E83-10264
NASA-CR-170530

SEPT 1982

THEMATIC MAPPER

Made available under NASA sponsorship
in the interest of early and wide dis-
semination of Earth Resources Survey
Program information and without liability
for any use made thereof.

(E83-10264) THEMATIC MAPPER PROTOFLIGHT MODEL PRESHIPMENT REVIEW DATA PACKAGE. VOLUME 4: APPENDIX. PART A: MULTIPLEXER DATA, BOOK 1 Final Report (Santa Barbara Research Center) 745 p HC A99/MF A01 G3/43
N83-26133
Unclas
00264

Prepared for
GODDARD SPACE FLIGHT CENTER
Greenbelt, Maryland 20771
CONTRACT NAS 5-24200

FLIGHT MODEL
PRESHIPMENT REVIEW
DATA PACKAGE
VOLUME IV - APPEXDIX
PART A - MULTIPLEXER DATA BOOK I

Article IV - 3A

HUGHES
HUGHES AIRCRAFT COMPANY
SPACE AND COMMUNICATIONS GROUP

BEST AVAILABLE COPY

ORIGINAL PAGE IS
OF POOR QUALITY

HS 236-0019-1679

THEMATIC MAPPER

Prepared for:
GODDARD SPACE FLIGHT CENTER
Greenbelt, Maryland 20771
CONTRACT NAS 5-24200

SEPT 1982

PROTOFLIGHT MODEL
PRESHIPMENT REVIEW
DATA PACKAGE
VOLUME IV - APPEXDIX
PART A - MULTIPLEXER DATA - BOOK I

Article IV - 3A

HUGHES

HUGHES AIRCRAFT COMPANY
SPACE AND COMMUNICATIONS GROUP

Hughes Ref No. D4596

ORIGINAL PAGE IS
OF POOR QUALITY

APPENDIX A

MULTIPLEXER PERFORMANCE DATA

The enclosed data is from the final performance tests on the Flight Model Multiplexer at ambient temperature. Included in the set of data is the following:

Power Supply Test Data . . . . . .Section 1

Miscellaneous Data . . . . . .Section 2

Input Buffer Test Data . . . . . .Section 3

- Gain and Offset Errors
- A/D Reference Voltages
- External DC Restore Test
- AC Response Test
- Droop Test
- DCR Time Constant

A/D Threshold Test Data. . . . . .Section 4

Cross-talk Test Data . . . . . .Section 5

Thermistor Test Data . . . . . .Section 6

Bilevel Commands Signal Parameters Data. .Section 7

A/D Threshold Test Data - Ambient, Voltage Margin Low Bus . . . . . Section 8

Miscellaneous Data. . . . . Section 9

A/D Threshold Test Data - Ambient, Voltage Margin Low Bus . . . . . Section 10

Cross-talk Test Data - per FR 4268 . . . Section 11

Serial Data and Bit Clock Parameters. . . Section 12

Wire Check Data Sheets . . . . . Section 13

Other acceptance data taken at +50°C, -15°C, before and after vibration, and prior to rework of the Multiplexer is retained in SBRC's Product Assurance data files, available for review upon request.

ORIGINAL PAGE IS
OF POOR QUALITY

Appendix A

Multiplexer Performance Data

Power Supply Test

Section 1

REVIEWED PAGES 1 - 7 12/1/81

HAC TEST 327

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 1
1981/11/30 08:57:05 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.1 POWER SUPPLY TEST

	MIN(V)	DVM(V)	MAX(V)
LOADS OFF			
-3.0 NOM BUS			
-3.1 BUS VOLTAGE	29.5500	30.2132	30.4500
-3.2 BUS CURRENT	0.3300	0.3660	0.4127
-3.3 INPUT CURRENT STATUS			
A OUT	3.0000	3.9754	5.0000
B OUT	3.0000	3.9762	5.0000
-3.4 UNIT ON STATUS			
A OUT	4.0000	4.9441	6.0000
B OUT	4.0000	4.9444	6.0000
-3.5 SECONDARY VOLTAGE TELEMETRY			
A OUT			
18.8	4.0540	4.2251	4.4800
5.2	4.0480	4.2564	4.4740
-2.3	3.8010	3.9065	4.2010
-5.2	4.3360	4.4005	4.7920
-13.0	4.1340	4.3187	4.5700
B OUT			
18.8	4.0540	4.2251	4.4800
5.2	4.0480	4.2554	4.4740
-2.3	3.8010	3.9053	4.2010
-5.2	4.3360	4.4005	4.7920
-13.0	4.1340	4.3189	4.5700

ORIGINAL PAGE IS OF POOR QUALITY

3.5.1 POWER SUPPLY TEST

	MIN(V)	DVM(V)	MAX(V)
-3.6 A/D REFERENCE TELEMETRY VOLTAGES			
A OUT			
A/D 1	1.9680	1.9854	1.9980
A/D 2	1.9680	1.9923	1.9980
A/D 3	1.9680	1.9899	1.9980
A/D 4	1.9680	1.9909	1.9980
A/D 5	1.9680	1.9863	1.9980
A/D 6	1.9650	1.9831	1.9950
A/D 7	1.9680	1.9894	1.9980
B OUT			
A/D 1	1.9680	1.9854	1.9980
A/D 2	1.9680	1.9923	1.9980
A/D 3	1.9680	1.9899	1.9980
A/D 4	1.9680	1.9909	1.9980
A/D 5	1.9680	1.9863	1.9980
A/D 7	1.9680	1.9894	1.9980

LOADS ON, REPEAT -3.4, -3.5, -3.6

-3.7 REPEAT -3.4

-3.4 UNIT ON STATUS			
A OUT	2.0000	2.6774	3.0000
B OUT	2.0000	2.6774	3.0000

-3.8 REPEAT -3.5

-3.5 SECONDARY VOLTAGE TELEMETRY			
A OUT			
18.8	1.9662	2.0855	2.3072
5.2	1.6587	1.7868	1.9467
-2.3	1.8435	1.8957	2.1630

ORIGINAL PAGE IS
OF POOR QUALITY

HAC 527
NOV 30 '81

HS-216 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 3

1981/11/30 08:57:05 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.1 POWER SUPPLY TEST

	MIN(V)	DVM(V)	MAX(V)
-5.2	2.1030	2.1681	2.4679
-13.0	2.0050	2.1226	2.3536
B OUT			
18.8	1.9662	2.0890	2.3072
5.2	1.6587	1.8016	1.9467
-7.3	1.8435	1.9176	2.1630
-5.2	2.1030	2.1879	2.4679
-13.0	2.0050	2.1467	2.3536

-3.9 REPEAT -3.6

-3.6 A/D REFERENCE TELEMETRY VOLTAGES

A OUT			
A/D 1	0.9500	0.9727	1.0500
A/D 2	0.9500	0.9754	1.0500
A/D 3	0.9500	0.9847	1.0500
A/D 4	0.9500	0.9791	1.0500
A/D 5	0.9500	0.9669	1.0500
A/D 7	0.9500	0.9706	1.0500
B OUT			
A/D 1	0.9500	0.9846	1.0500
A/D 2	0.9500	0.9783	1.0500
A/D 3	0.9500	0.9850	1.0500
A/D 4	0.9500	0.9809	1.0500
A/D 5	0.9500	0.9809	1.0500
A/D 7	0.9500	0.9767	1.0500

TEST PASSED

HAC TEST S27

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 4

1981/11/30 08:57:05 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.15.1 POWER SUPPLY TEST

	MIN(V)	DVM(V)	MAX(V)
LOADS OFF			
-4.0 LOW BUS			
-4.1 BUS VOLTAGE	28.6500	29.3680	29.5500
-4.2 BUS CURRENT	0.3300	0.3526	0.4127
-4.3 INPUT CURRENT STATUS			
A OUT	3.0000	3.8316	5.0000
B OUT	3.0000	3.8301	5.0000
-4.4 UNIT ON STATUS			
A OUT	4.0000	4.8059	6.0000
B OUT	4.0000	4.8060	6.0000
-4.5 SECONDARY VOLTAGE TELEMETRY			
A OUT			
18.8	3.9320	4.1010	4.3460
5.2	3.9270	4.1349	4.3400
-2.3	3.6870	3.7923	4.0750
-5.2	4.2060	4.2799	4.6480
-13.0	4.0100	4.1875	4.4330
B OUT			
18.8	3.9320	4.1010	4.3460
5.2	3.9270	4.1350	4.3400
-2.3	3.6870	3.7923	4.0750
-5.2	4.2060	4.2798	4.6480
-13.0	4.0100	4.1876	4.4330

HAC TEST 527

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 5
1981/11/30 08:57:05 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.1 POWER SUPPLY TEST

	MIN(V)	DVM(V)	MAX(V)
-4.6 A/D REFERENCE TELEMETRY VOLTAGES			
A OUT			
A/D 1	1.9680	1.9849	1.9980
A/D 2	1.9680	1.9917	1.9980
A/D 3	1.9680	1.9893	1.9980
A/D 4	1.9680	1.9903	1.9980
A/D 5	1.9680	1.9858	1.9980
A/D 6	1.9650	1.9832	1.9950
A/D 7	1.9680	1.9888	1.9980
B OUT			
A/D 1	1.9680	1.9849	1.9980
A/D 2	1.9680	1.9917	1.9980
A/D 3	1.9680	1.9893	1.9980
A/D 4	1.9680	1.9904	1.9980
A/D 5	1.9680	1.9858	1.9980
A/D 7	1.9680	1.9888	1.9980

TEST PASSED

HAC TEST S27

NOV 30 '81

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 6
1981/11/30 08:57:05 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
14.5.1 POWER SUPPLY TEST

HAC TEST 527
NOV 30 '81

	MIN(V)	DVM(V)	MAX(V)
LOADS OFF			
-5.0 HIGH BUS			
-5.1 BUS VOLTAGE	30.4500	31.1264	31.3500
-5.2 BUS CURRENT	0.3300	0.3809	0.4127
-5.3 INPUT CURRENT STATUS			
A OUT	3.0000	4.1328	5.0000
B OUT	3.0000	4.1347	5.0000
-5.4 UNIT ON STATUS			
A OUT	4.0000	5.0962	6.0000
B OUT	4.0000	5.0963	6.0000
-5.5 SECONDARY VOLTAGE TELEMETRY			
A OUT			
18.8	4.1750	4.3592	4.6150
5.2	4.1690	4.3890	4.6000
-2.3	3.9150	4.0280	4.3270
-5.2	4.4660	4.5298	4.9360
-13.0	4.2580	4.4621	4.7070
B OUT			
18.8	4.1750	4.3592	4.6150
5.2	4.1690	4.3881	4.6000
-2.3	3.9150	4.0265	4.3270
-5.2	4.4660	4.5297	4.9360
-13.0	4.2580	4.4622	4.7070

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 7

1981/11/30 08:57:05 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

13.5.0 POWER SUPPLY TEST

HAC TEST S27
NOV 30 '81

	MIN(V)	DVM(V)	MAX(V)
-5.6 A/D REFERENCE TELEMETRY VOLTAGES			
A OUT			
A/D 1	1.9680	1.9859	1.9980
A/D 2	1.9680	1.9928	1.9980
A/D 3	1.9680	1.9905	1.9980
A/D 4	1.9680	1.9915	1.9980
A/D 5	1.9680	1.9867	1.9980
A/D 6	1.9650	1.9833	1.9950
A/D 7	1.9680	1.9900	1.9980
B OUT			
A/D 1	1.9680	1.9859	1.9980
A/D 2	1.9680	1.9928	1.9980
A/D 3	1.9680	1.9905	1.9980
A/D 4	1.9680	1.9916	1.9980
A/D 5	1.9680	1.9867	1.9980
A/D 7	1.9680	1.9900	1.9980

TEST PASSED

ORIGINAL PAGE IS
OF POOR QUALITY

ORIGINAL PAGE IS
OF POOR QUALITY

Appendix A

Multiplexer Performance Data

Miscellaneous Data

Section 2

REVIEWED PAGES 8 - 25 12/1/81

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 8
1981/11/30 08:59:21 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
[illegible] PN CODE

308C	1CD5	FFD2	F0F0	F0F0	F0F0	F0F0	F0F0	F0F0	F0F0	F0F0	F0F0	F0F0	F0F0	F0F0
			F054	6F17	396F	55FC	712C	C062	0E4D	DA10	7623	1C2D	82B7	1134
			F603	54AF	A433	B94E	1D6F	57A8	6818	E521	D916	BA08	4042	46CF
			FC94	DE59	F741	81B1	DD1F	AA6C	90D7	4993	9114	BE80	722A	0C49
6F55	FC71	2CC0	620E	4DDA	1076	231C	2D82	B711	34F6	0354	AFA4	33B9	4F1D	6E57
			A830	8CF0	F0F0	F0F0	F0F0	F0F0	F0F0	F0F0	F0F0	F0F0	F0F0	F0F0
			4AD5	CC39	AFF6	E6A6	3731	7C75	25D0	06DF	D8D5	4D1B	A37C	F407
			DC9C	CC79	3EF1	ABAF	67C4	AAAD	23DD	9F88	600A	C5F8	783C	A4B2
A735	7565	4100	93D1	85B8	CD7B	7AF9	9F8A	2413	F1CD	3BFB	FFD2	8374	F627	153D
			E667	843B	AB6E	D4CE	7DB6	D2C3	F5E0	6A1C	6D13	B15C	3DA6	F682
			308C	00FF	1103	0180	44F7	004D	0000	14FF	C084	1D80	44FF	4089
			1020	01F2	308B	0001	20E4	800E	1800	00F0	1004	0120	20FC	8811
04A1	40FA	680E	0504	00FC	400E	0000	81F1	1007	0600	80F5	2101	0082	88FA	2089
			0080	40F1	800F	0000	45F1	7000	4200	A0FD	0002	0621	00FF	402B
			0584	00FD	0008	0400	00D9	141E	0400	88FA	0022	0100	08FB	000D
			0000	A2F9	640E	0000	00FD	800A	0220	86FF	622A	0020	00F5	5047

TEST PASSED, PN CODE REFERENCE DATA ARE

546F	1739	6E55	FC71	2CC0	620F	4DDA	1076	231C	2D82	B711	34F6	0354	AFA4	33B9
			4F1D	6E57	A868	18F5	21D9	16BA	0840	4246	CFFC	94DF	59F7	4181
			B1DD	1FAA	6C90	D749	9391	14BF	8072	2A0C	496F	55FC	712C	C062
			0E4D	DA10	7623	1C2D	82B7	1134	F603	54AF	A433	B94E	1D6F	57A8

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 9
1981/11/30 08:59:36 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.2.1-2 SYNC

MAJOR FRAME NUMBER	MINOR FRAME NUMBER 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
3	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
4	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
5	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
6	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
7	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
8	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
9	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
10	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P

TEST PASSED, DATA ARE ALL 308C 1CD5

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 10
1981/11/30 08:59:54 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.2.1-3 TIME CODE

308C	1CD5	02F1	0000	0000	0000	0000	0000	0000	FFFF	FFFF	FFFF	0000	0000	0000
			FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	0000	0000	0000
			0000	0000	0000	0000	0000	0000	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF
			0000	0000	0000	0000	0000	0000	FFFF	FFFF	FFFF	0000	0000	0000
308C	1CD5	02D2	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	0000	0000	0000
			0000	0000	0000	0000	0000	0000	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF
			0000	0000	0000	0000	0000	0000	FFFF	FFFF	FFFF	0000	0000	0000
			FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	0000	0000	0000
308C	1CD5	02C3	0000	0000	0000	0000	0000	0000	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF
			0000	0000	0000	0000	0000	0000	FFFF	FFFF	FFFF	0000	0000	0000
			FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	0000	0000	0000
			0000	0000	0000	0000	0000	0000	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF
308C	1CD5	02B4	0000	0000	0000	0000	0000	0000	FFFF	FFFF	FFFF	0000	0000	0000
			FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	0000	0000	0000
			0000	0000	0000	0000	0000	0000	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF
			0000	0000	0000	0000	0000	0000	FFFF	FFFF	FFFF	0000	0000	0000
308C	1CD5	02A5	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	0000	0000	0000
			0000	0000	0000	0000	0000	0000	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF
			0000	0000	0000	0000	0000	0000	FFFF	FFFF	FFFF	0000	0000	0000
			FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	0000	0000	0000
308C	1CD5	0296	0000	0000	0000	0000	0000	0000	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF
			0000	0000	0000	0000	0000	0000	FFFF	FFFF	FFFF	0000	0000	0000
			FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	0000	0000	0000
			0000	0000	0000	0000	0000	0000	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF

TEST PASSED

HAC TEST 527

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 11
1981/11/30 09:00:09 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
[illegible] SPACECRAFT TELEMETRY

MAJOR FRAME 1 TO 192

SUB-MAJOR FRAME	MAJOR FRAME NUMBER 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
3	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
4	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
5	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
6	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
7	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
8	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
9	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
10	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
11	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
12	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P

PART 1 TEST PASSED, DATA ARE E1 D2 C3 B4 A5 96 87 78 69 5A 4B 3C 2D 1E 0F

HAC TEST S27
NOV 30 '81

ORIGINAL PAGE IS
OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL .. FLT. S/N 3 PAGE 12

1981/11/30 09:00:09 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.2.1-4 SPACECRAFT TELEMETRY

MAJOR FRAME 193 TO 384

SUPER MAJOR FRAME	MAJOR FRAME NUMBER 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
3	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
4	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
5	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
6	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
7	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
8	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
9	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
10	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
11	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
12	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P

PART 2 TEST PASSED, DATA ARE F1 D2 C3 B4 A5 96 87 78 69 5A 4B 3C 2D 1E 0F

HAC TEST 527
DEC 30 '81

ORIGINAL PAGE IS
OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 13
1981/11/30 09:00:09 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.2.1—4 SPACECRAFT TELEMETRY

MAJOR FRAME 385 TO 455

SUPER MAJOR FRAME	MAJOR FRAME NUMBER 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
3	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
4	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
5	P	P	P	P	P	P	P									

PART 3 TEST PASSED, DATA ARE E1 D2 C3 B4 A5 96 87 78 69 5A 4B 3C 2D 1F 0F

HAC TEST S27
ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 14

1981/11/30 09:00:42 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.12.1-5 MAJOR FRAME COUNT

```
00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F
10 11 12 13 14 15 16 17 18 19 1A 1B 1C 1D 1E 1F
20 21 22 23 24 25 26 27 28 29 2A 2B 2C 2D 2E 2F
30 31 32 33 34 35 36 37 38 39 3A 3B 3C 3D 3E 3F
40 41 42 43 44 45 46 47 48 49 4A 4B 4C 4D 4E 4F
50 51 52 53 54 55 56 57 58 59 5A 5B 5C 5D 5E 5F
60 61 62 63 64 65 66 67 68 69 6A 6B 6C 6D 6E 6F
70 71 72 73 74 75 76 77 78 79 7A 7B 7C 7D 7E 7F
80 81 82 83 84 85 86 87 88 89 8A 8B 8C 8D 8E 8F
90 91 92 93 94 95 96 97 98 99 9A 9B 9C 9D 9E 9F
A0 A1 A2 A3 A4 A5 A6 A7 A8 A9 AA AB AC AD AE AF
B0 B1 B2 B3 B4 B5 B6 B7 B8 B9 BA BB BC BD BE BF
C0 C1 C2 C3 C4 C5 C6 C7 C8 C9 CA CB CC CD CE CF
D0 D1 D2 D3 D4 D5 D6 D7 D8 D9 DA DB DC DD DE DF
E0 E1 E2 E3 E4 E5 E6 E7 E8 E9 EA EB EC ED EE EF
F0 F1 F2 F3 F4 F5 F6 F7 F8 F9 FA FB FC FD FE FF
00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0F 0F
10 11 12 13 14 15 16 17 18 19 1A 1B 1C 1D 1E 1F
20 21 22 23 24 25 26 27 28 29 2A 2B 2C 2D 2E 2F
30 31 32 33 34 35 36 37 38 39 3A 3B 3C 3D 3E 3F
40 41 42 43 44 45 46 47 48 49 4A 4B 4C 4D 4E 4F
50 51 52 53 54 55 56 57 58 59 5A 5B 5C 5D 5E 5F
60 61 62 63 64 65 66 67 68 69 6A 6B 6C 6D 6E 6F
70 71 72 73 74 75 76 77 78 79 7A 7B 7C 7D 7E 7F
80 81 82 83 84 85 00 01 02 03 04 05 06 07 08 09
0A 0B 0C 0D 0E 0F 10 11 12 13 14 15 16 17 18 19
1A 1B 1C 1D 1E 1F 20 21 22 23 24 25 26 27 28 29
2A 2B 2C 2D 2E 2F 30 31 32 33 34 35 36 37 38 39
3A 3B 3C 3D 3E 3F 40
TEST PASSED
```

HAC TEST 527

NOV 30 '81

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL .. FLT. S/N 3 PAGE 15

1981/11/30 09:00:56 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

4.5.2.1—5 MAJOR FRAME COUNT

NARROW FILTER ON

00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
10	11	12	13	14	15	16	17	18	19	1A	1B	1C	1D	1E	1F
20	21	22	23	24	25	26	27	28	29	2A	2B	2C	2D	2E	2F
30	31	32	33	34	35	36	37	38	39	3A	3B	3C	3D	3E	3F
40	41	42	43	44	45	46	47	48	49	4A	4B	4C	4D	4E	4F
50	51	52	53	54	55	56	57	58	59	5A	5B	5C	5D	5E	5F
60	61	62	63	64	65	66	67	68	69	6A	6B	6C	6D	6E	6F
70	71	72	73	74	75	76	77	78	79	7A	7B	7C	7D	7E	7F
80	81	82	83	84	85	86	87	88	89	8A	8B	8C	8D	8E	8F
90	91	92	93	94	95	96	97	98	99	9A	9B	9C	9D	9E	9F
A0	A1	A2	A3	A4	A5	A6	A7	A8	A9	AA	AB	AC	AD	AE	AF
B0	B1	B2	B3	B4	B5	B6	B7	B8	B9	BA	BB	BC	BD	BE	BF
C0	C1	C2	C3	C4	C5	C6	C7	C8	C9	CA	CB	CC	CD	CE	CF
D0	D1	D2	D3	D4	D5	D6	D7	D8	D9	DA	DB	DC	DD	DE	DF
E0	E1	E2	E3	E4	E5	E6	E7	E8	E9	EA	EB	EC	ED	EE	EF
F0	F1	F2	F3	F4	F5	F6	F7	F8	F9	FA	FB	FC	FD	FE	FF
00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
10	11	12	13	14	15	16	17	18	19	1A	1B	1C	1D	1E	1F
20	21	22	23	24	25	26	27	28	29	2A	2B	2C	2D	2E	2F
30	31	32	33	34	35	36	37	38	39	3A	3B	3C	3D	3E	3F
40	41	42	43	44	45	46	47	48	49	4A	4B	4C	4D	4E	4F
50	51	52	53	54	55	56	57	58	59	5A	5B	5C	5D	5E	5F
60	61	62	63	64	65	66	67	68	69	6A	6B	6C	6D	6E	6F
70	71	72	73	74	75	76	77	78	79	7A	7B	7C	7D	7E	7F
80	81	82	83	84	85	00	01	02	03	04	05	06	07	08	09
0A	0B	0C	0D	0E	0F	10	11	12	13	14	15	16	17	18	19
1A	1B	1C	1D	1E	1F	20	21	22	23	24	25	26	27	28	29
2A	2B	2C	2D	2E	2F	30	31	32	33	34	35	36	37	38	39
3A	3B	3C	3D	3E	3F	40									

TEST PASSED

HAC TEST 527

NOV 30 '81

ORIGINAL PAGE IS OF POOR QUALITY

HAC
TEST
547
NOV 30 '81

1981/11/30 09:01:13 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

04.55.2.1-4 RETICLE

RETICLE 1 1/0 = 0 H/L = H
RETICLE 2 1/0 = 1 H/L = H

	MIN(V)	DVM(V)	MAX(V)
RETICLE ON STATUS A	-0.8000	-0.0178	0.8000
RETICLE ON STATUS B	-0.8000	-0.1051	0.8000

308C 1CD5 7FF1	7D7C	7D7D	7D7D	7C7C	7D7D	7D7D	7C7C	7D7D	7D7D	7C7C	7D7D	7D7D
	7C7B	7D7D	7D7D	7C7B	7D7D	7D7C	7C7B	7D7D	7D7D	7C7B	7D7C	7D7C
	7D7C	7D7D	7D7D	7C7C	7D7D	7C7D	7C7C	7D7D	7D7D	7C7D	7D7D	7D7D
	7C7C	7D7C	7D7D	7C7C	7D7D	7D7D	7C7C	7D7D	7D7D	7C7C	7D7D	7D7D
308C 1CD5 7FD2	7D7C	7D7D	7D7D	7C7C	7D7D	7D7D	7C7C	7D7D	7D7D	7C7C	7D7D	7D7D
	7C7B	7C7D	7D7C	7C7C	7D7D	7D7C	7C7B	7C7D	7D7D	7C7B	7D7C	7D7C
	7D7C	7D7D	7D7D	7C7C	7D7D	7C7D	7C7C	7D7D	7D7D	7C7C	7D7D	7D7D
	7C7C	7D7C	7D7D	7C7C	7D7D	7D7D	7C7C	7D7D	7D7D	7C7C	7D7D	7D7D

TEST PASSED FOR FORMAT DATA

ORIGINAL PAGE IS
OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 17
1981/11/30 09:01:23 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
[illegible] RETICLE

RETICLE 1 1/0 = 1 H/L = H
RETICLE 2 1/0 = 1 H/L = H

	MIN(V)	DVM(V)	MAX(V)
RETICLE ON STATUS A	3.5000	4.9460	5.5000
RETICLE ON STATUS B	3.5000	4.9435	5.5000

```
3080 1CD5 7FF1  7D7C 7D7D 7D7D  7D7C 7D7D 7DFF  FFFF FFFF FFFF  FFFF FFFF FFFF
                FFFF FFFF FFFF  FFFF FFFF FFFF  FFFF FFFF FFFF  FFFF FFFF FFFF
                FFFF FFFF FFFF  FFFF FFFF FF00  0000 0000 0000  0000 0000 0000
                0000 0000 0000  0000 0000 0000  0000 0000 0000  0000 0000 0000

3080 1CD5 7FD2  0000 0000 0000  0000 0000 007D  7C7C 7D7D 7D7D  7C7C 7D7D 7D7D
                7C7B 7D7D 7D7D  7C7B 7D7D 7D7C  7C7B 7D7D 7D7D  7C7B 7D7C 7D7C
                7D7C 7D7D 7D7D  7C7C 7D7D 7C7D  7C7C 7D7D 7D7D  7C7C 7D7D 7D7D
                7C7C 7D7D 7D7D  7C7C 7D7D 7D7D  7C7C 7D7D 7D7D  7C7C 7D7D 7D7D
```

TEST PASSED FOR FORMAT DATA

HAC TEST 7
NOV 30 '81

ORIGINAL PAGE IS
OF POOR QUALITY

HS-736 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 18
1981/11/30 09:01:33 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.2.1-4 RETICLE

RETICLE 1 1/0 = 1 H/L = H
RETICLE 2 1/0 = 0 H/L = H

	MIN(V)	DVM(V)	MAX(V)
RETICLE ON STATUS A	-0.8000	-0.0177	0.8000
RETICLE ON STATUS B	-0.8000	-0.1054	0.8000

```
308C 1CD5 7FF1  7D7C 7D7D 7D7D  7C7C 7D7D 7D7D  7C7C 7D7C 7D7D  7C7C 7D7D 7D7D
                7C7B 7D7D 7D7D  7C7B 7D7D 7D7C  7C7B 7D7D 7D7D  7C7B 7D7C 7D7C
                7D7C 7D7D 7D7D  7C7C 7D7D 7C7D  7C7C 7D7D 7D7D  7C7D 7D7D 7D7D
                7C7C 7D7C 7D7D  7C7C 7D7D 7D7D  7C7C 7D7D 7D7D  7C7C 7D7D 7D7D

308C 1CD5 7FD2  7D7C 7D7D 7D7D  7C7C 7C7D 7D7D  7C7C 7D7D 7D7D  7C7C 7D7D 7D7D
                7C7B 7C7D 7D7C  7C7B 7D7D 7D7C  7C7B 7D7D 7D7D  7C7B 7D7C 7D7C
                7D7C 7D7D 7D7D  7C7C 7D7D 7C7D  7C7C 7D7D 7D7D  7C7D 7D7D 7D7D
                7C7C 7D7D 7D7D  7C7C 7D7D 7D7D  7C7C 7D7D 7D7D  7C7C 7D7D 7D7D
```

EST PASSED FOR FORMAT DATA

ORIGINAL PAGE IS
OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 19

1981/11/30 09:01:43 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] RETICLE

HAC TEST S27

NOV 30 '81

RETICLE 1 1/0 = 1 H/L = L
RETICLE 2 1/0 = 1 H/L = L

	MTN(V)	DVM(V)	MAX(V)
RETICLE ON STATUS A	3.5000	4.9457	5.5000
RETICLE ON STATUS B	3.5000	4.9446	5.5000

```
308C 1CD5 7FF1  7D7C 7D7D 7D7D  7D7C 7D7D FFFF  FFFF FFFF FFFF  FFFF FFFF FFFF
                FFFF FFFF FFFF  FFFF FFFF FFFF  FFFF FFFF FFFF  FFFF FFFF FFFF
                FFFF FFFF FFFF  FFFF FFFF 0000  0000 0000 0000  0000 0000 0000
                0000 0000 0000  0000 0000 0000  0000 0000 0000  0000 0000 0000

308C 1CD5 7FD2  0000 0000 0000  0000 0000 7D7D  7C7C 7D7D 7D7D  7C7C 7D7D 7D7D
                7C7B 7D7D 7D7D  7C7C 7D7D 7D7D  7C7B 7D7D 7D7C  7C7B 7D7C 7D7C
                7D7C 7D7D 7D7D  7C7C 7D7D 7C7D  7C7C 7D7D 7D7D  7C7C 7D7D 7D7D
                7C7C 7D7D 7D7D  7C7C 7D7D 7D7D  7C7C 7D7D 7D7D  7C7B 7D7D 7D7D
```

TEST PASSED FOR FORMAT DATA

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 20
1981/11/30 09:01:53 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.2.1-6 RETICLE

HAC TEST S27

NOV 30 '81

RETICLE 1 1/0 = 0 H/L = H
RETICLE 2 1/0 = 0 H/L = H

	MIN(V)	DVM(V)	MAX(V)
RETICLE ON STATUS A	-0.8000	-0.0177	0.8000
RETICLE ON STATUS B	-0.8000	-0.1010	0.8000

```
308C 1CD5 7FF1  7D7C 7D7D 7D7D  7C7C 7D7D 7D7D  7C7C 7D7D 7D7D  7C7C 7D7D 7D7D
                7C7C 7D7D 7D7D  7C7C 7D7D 7D7C  7C7B 7C7D 7D7C  7C7B 7D7C 7D7C
                7D7C 7D7D 7D7D  7C7C 7D7D 7C7D  7C7C 7D7D 7D7D  7C7D 7D7D 7D7D
                7C7C 7D7C 7D7D  7C7C 7D7D 7D7D  7C7C 7D7D 7D7D  7C7C 7D7D 7D7D

308C 1CD5 7FD2  7D7C 7D7D 7D7D  7C7C 7D7D 7D7D  7C7C 7D7D 7D7D  7C7C 7D7D 7D7D
                7C7B 7C7D 7D7D  7C7C 7D7D 7D7C  7C7B 7C7D 7D7C  7C7B 7D7C 7D7C
                7D7C 7D7D 7D7D  7C7C 7D7D 7C7D  7C7C 7D7D 7D7D  7C7D 7D7D 7D7D
                7C7C 7D7C 7D7D  7C7C 7D7D 7D7D  7C7C 7D7D 7D7D  7C7B 7D7D 7D7D
```

TEST PASSED FOR FORMAT DATA

ORIGINAL PAGE IS
OF POOR QUALITY

HAC TEST S27

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 21
1981/11/30 09:02:03 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.2.1-7 LINE STOP

308C 1CD5 80D2	ZDZD	ZDZD	ZDZD	ZCZC	ZDZD	ZDZD	ZCZC	ZDZD	ZDZD	ZCZC	ZDZD	ZDZD
	ZCZC	ZD00	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
	0000	00FF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF
308C 1CD5 7FC3	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF
	FFFF	FF00	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
	0000	00FF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF
308C 1CD5 7FB4	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF
	FFFF	FFZD	ZDZD	ZCZC	ZDZD	ZDZD	ZCZC	ZDZD	ZDZC	ZCZC	ZDZD	ZDZC
	ZDZC	ZDZD	ZDZD	ZCZC	ZDZD	ZCZD	ZDZC	ZDZD	ZDZD	ZDZD	ZDZD	ZDZD
	ZCZC	ZDZD	ZDZD	ZCZC	ZDZD	ZDZD	ZCZC	ZDZD	ZDZD	ZCZC	ZDZD	ZDZD
308C 1CD5 7FA5	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	0000	0000	0000
	0000	0000	0000	0000	0000	0000	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF
	0000	0000	0000	0000	0000	0000	FFFF	FFFF	FFFF	0000	0000	0000
	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	0000	0000	0000
308C 1CD5 8096	0000	0000	0000	0000	0000	0000	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF
	0000	0000	0000	0000	0000	0000	FFFF	FFFF	FFFF	0000	0000	0000
	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000

TEST PASSED

ORIGINAL PAGE IS
OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 22
1981/11/30 09:02:17 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.2.1-8 LINE LENGTH AND SCAN DIRECTION CODE

SCAN DIRECTION IS PLUS

308C 1CD5 80D2	7D7D	7D7D	7D7D	7C7C	7D7D	7D7D	7C7C	7D7D	7D7D	7C7C	7D7D	7D7D
	7C7C	7D00	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
	0000	00FF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF
308C 1CD5 7FC3	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF
	FFFF	FF00	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
	0000	00FF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF
308C 1CD5 7FB4	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF
	FFFF	FF7D	7D7D	7C7C	7D7D	7D7D	7C7D	7D7D	7D7C	7C7C	7D7D	7D7C
	7D7C	7D7D	7D7D	7C7C	7D7D	7C7D	7D7C	7D7D	7D7D	7C7D	7D7D	7D7D
	7C7C	7D7D	7D7D	7C7C	7D7D	7D7D	7C7C	7D7D	7D7D	7C7C	7D7D	7D7D
308C 1CD5 7FA5	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	0000	0000	0000
	0000	0000	0000	0000	0000	0000	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF
	0000	0000	0000	0000	0000	0000	FFFF	FFFF	FFFF	0000	0000	0000
	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	0000	0000	0000
308C 1CD5 8096	0000	0000	0000	0000	0000	0000	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF
	0000	0000	0000	0000	0000	0000	FFFF	FFFF	FFFF	0000	0000	0000
	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000

TEST PASSED

HAC TEST S27

ORIGINAL PAGE IS
OF POOR QUALITY

3.5.2.1—B LINE LENGTH AND SCAN DIRECTION CODE

SCAN DIRECTION IS MINUS

308C 1CD5 80D2	7D7D	7D7D	7D7D	7C7C	7D7D	7D7D	7C7C	7D7D	7D7D	7C7C	7D7D	7D7D
	7C7C	7D00	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
	0000	00FF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF
308C 1CD5 7FC3	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF
	FFFF	FF00	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
	0000	00FF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF
308C 1CD5 7FB4	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF
	FFFF	FF7D	7D7D	7C7B	7D7D	7D7C	7C7B	7D7D	7D7D	7C7B	7D7C	7D7C
	7D7C	7D7D	7D7D	7C7C	7D7D	7C7D	7D7C	7D7D	7D7D	7D7D	7D7D	7D7D
	7C7C	7D7D	7D7D	7C7C	7D7D	7D7D	7C7C	7D7D	7D7D	7C7B	7D7D	7D7D
308C 1CD5 7FA5	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	0000	0000	0000
	0000	0000	0000	0000	0000	0000	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF
	0000	0000	0000	0000	0000	0000	FFFF	FFFF	FFFF	0000	0000	0000
	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	0000	0000	0000
308C 1CD5 8096	0000	0000	0000	0000	0000	0000	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF
	0000	0000	0000	0000	0000	0000	FFFF	FFFF	FFFF	0000	0000	0000
	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF
	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF

TEST PASSED

ORIGINAL PAGE IS
OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 24
1981/11/30 09:02:47 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.2.1-9 PREAMBLE

PAC TEST S27

NOV 30 '81

ORIGINAL PAGE IS OF POOR QUALITY

MAJOR FRAME NUMBER	MINOR FRAME NUMBER 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
451			P	P	P	P	P	P	P	P	P	P	P	P	P	P
452	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
453	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
454	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
455	X	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
308C 1CD5 4457		308C	1CD5	01E1		F0F0	F0F0	F0F0		F0F0	F0F0	F0F0		F0F0	F0F0	F0F0
		F0F0	F0F0	F0F0		F0F0	F0F0	F0F0		F0F0	F0F0	F0F0		F0F0	F0F0	F0F0
		F0F0	F0F0	F0F0		F0F0	F0F0	F0F0		F0F0	F0F0	F0F0		F0F0	F0F0	F0F0
		F0F0	F0F0	F0F0		F0F0	F0F0	F0F0		F0F0	F0F0	F0F0		F0F0	F0F0	F0F0
456	P															

TEST FAILED: DATA SHOULD BE ALL F0

Test failed due to noise in Tester. See retest passed on pg 25. By 11/30/81

NOV 30 '81

PAC TEST S27

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 20
1981/11/30 09:05:25 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
4.5.2.1 —> PREAMPLIFIER

MAJOR FRAME NUMBER	MINOR FRAME NUMBER 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
451			P	P	P	P	P	P	P	P	P	P	P	P	P	P
452	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
453	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
454	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
455	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
456	P															

TEST PASSED, DATA ARE ALL F0

HAC TEST 527

NOV 30 '81

ORIGINAL PAGE IS OF POOR QUALITY

ORIGINAL PAGE IS
OF POOR QUALITY

Appendix A

Multiplexer Performance Data

Input Buffer Test Data

- Gain and Offset Errors
- A/D reference Voltages
- External DC Restore Test
- AC Response Test
- Droop Test
- DCR Time Constant

Section 3

REVIEWED PAGES 26-73. 12/18

HAC TEST S27

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL .. FLT. S/N 3 PAGE 26

1981/11/30 09:25:59 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.1-1 INPUT BUFFER TEST (GAIN & OFFSET ERRORS)

VARY + INPUT [.....VARY - INPUT.....]

BAND	SENSOR	GAIN (%) .5SC	GAIN (%) FSCL	[.....-2V.....] OFFSET (MV) DCR=L	OFFSET (MV) DCR=P	GAIN (%) .5SC	GAIN (%) FSCL	[.....0V.....] OFFSET (MV) DCR=L	OFFSET (MV) DCR=P	GAIN (%) .5SC	GAIN (%) FSCL	[.....+2V.....] OFFSET (MV) DCR=L	OFFSET (MV) DCR=P	GAIN (%) .5SC	GAIN (%) FSCL
		-2.0 TO 2.0	-2.0 TO 2.0	-3.0 TO 3.0	-3.0 TO 3.0	-2.0 TO 2.0	-2.0 TO 2.0	-3.0 TO 3.0	-3.0 TO 3.0	-2.0 TO 2.0	-2.0 TO 2.0	-3.0 TO 3.0	-3.0 TO 3.0	-2.0 TO 2.0	-2.0 TO 2.0
1	1	0.39	0.80	0.2	0.4	0.63	0.77	0.2	-0.5	0.54	0.70	0.2	-0.4	0.49	0.71
1	2	0.18	0.65	0.0	0.3	0.46	0.60	0.1	-0.6	0.36	0.52	0.1	-0.4	0.31	0.54
1	3	0.54	1.00	-0.3	-0.1	0.80	0.96	-0.3	-0.2	0.71	0.89	-0.3	-0.0	0.66	0.90
1	4	0.59	0.92	0.5	-2.6	0.79	0.94	0.4	-0.6	0.70	0.87	0.5	-0.4	0.64	0.88
1	5	0.67	1.00	0.1	-0.5	0.89	1.02	0.1	-0.5	0.79	0.95	0.1	-0.4	0.73	0.96
1	6	0.43	0.81	0.0	0.8	0.65	0.80	0.1	-0.5	0.56	0.72	0.1	-0.3	0.51	0.74
1	7	0.65	1.03	0.2	-0.4	0.87	1.01	0.1	-0.5	0.78	0.94	0.2	-0.5	0.73	0.95
1	8	0.70	1.12	-0.0	0.0	0.92	1.08	-0.0	-0.6	0.84	1.01	0.0	-0.4	0.79	1.02
1	9	0.44	0.90	-0.3	0.3	0.69	0.83	-0.2	-0.5	0.59	0.76	-0.2	-0.3	0.54	0.77
1	10	0.42	0.83	-0.2	-1.0	0.64	0.79	-0.2	-0.5	0.55	0.72	-0.1	-0.3	0.50	0.74
1	11	0.40	0.81	0.0	-0.2	0.63	0.78	0.0	-0.5	0.54	0.72	0.1	-0.3	0.49	0.73
1	12	0.39	0.84	-0.4	0.7	0.64	0.77	-0.3	-0.5	0.55	0.69	-0.3	-0.3	0.50	0.71
1	13	0.42	0.93	-0.6	-0.2	0.68	0.83	-0.6	-0.5	0.59	0.75	-0.6	-0.4	0.54	0.77
1	14	0.55	0.95	-0.0	-1.2	0.77	0.91	-0.0	-0.7	0.69	0.83	0.0	-0.5	0.63	0.84
1	15	0.43	0.88	0.1	-0.3	0.68	0.83	0.2	-0.6	0.59	0.75	0.2	-0.4	0.53	0.74
1	16	0.49	0.87	0.0	-0.8	0.73	0.83	0.1	-0.6	0.62	0.74	0.1	-0.4	0.57	0.75

ORIGINAL PAGE IS OF POOR QUALITY

TEST PASSED

See data for Band 1 sensor 8 to verify FR# F3660 was a tester failure no a unit failure. Rg 11/30/81

See Q.C.H.R. Sheet #5 Line #43

HAC TEST S27

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 77

1981/11/30 09:25:59 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.1-1 INPUT BUFFER TEST (GAIN & OFFSET ERRORS)

VARY + INPUT [.....VARY - INPUT.....]

BAND	SENSOR	GAIN (%) .5SC	GAIN (%) FSCL	[.....-2V.....] OFFSET (MV) DCR=L	OFFSET (MV) DCR=P	GAIN (%) .5SC	GAIN (%) FSCL	[.....0V.....] OFFSET (MV) DCR=L	OFFSET (MV) DCR=P	GAIN (%) .5SC	GAIN (%) FSCL	[.....+2V.....] OFFSET (MV) DCR=L	OFFSET (MV) DCR=P	GAIN (%) .5SC	GAIN (%) FSCL
		-2.0 TO 2.0	-2.0 TO 2.0	-3.0 TO 3.0	-3.0 TO 3.0	-2.0 TO 2.0	-2.0 TO 2.0	-3.0 TO 3.0	-3.0 TO 3.0	-2.0 TO 2.0	-2.0 TO 2.0	-3.0 TO 3.0	-3.0 TO 3.0	-2.0 TO 2.0	-2.0 TO 2.0
2	1	0.57	1.01	0.1	0.1	0.80	0.95	0.1	-0.5	0.71	0.89	0.2	-0.5	0.66	0.90
2	2	0.57	1.06	0.3	0.4	0.82	0.98	0.3	-0.6	0.73	0.91	0.3	-0.4	0.68	0.92
2	3	0.49	0.98	-0.3	-0.4	0.73	0.89	-0.2	-0.6	0.64	0.83	-0.2	-0.4	0.60	0.84
2	4	0.62	0.98	0.4	-2.4	0.82	0.98	0.5	-0.6	0.73	0.90	0.5	-0.4	0.68	0.92
2	5	0.51	0.95	0.5	0.5	0.74	0.91	0.5	-0.7	0.66	0.85	0.5	-0.5	0.61	0.86
2	6	0.61	1.17	-0.3	1.8	0.86	1.04	-0.2	-0.3	0.79	0.97	-0.2	-0.3	0.73	0.98
2	7	0.55	1.10	0.2	-0.6	0.82	0.97	-0.1	-0.4	0.72	0.90	-0.1	-0.5	0.68	0.91
2	8	0.56	1.00	0.3	-2.7	0.74	0.92	0.3	-0.7	0.69	0.87	0.3	-0.5	0.64	0.88
2	9	0.75	1.17	-0.2	-0.5	0.97	1.12	-0.2	-0.7	0.88	1.06	-0.1	-0.5	0.83	1.07
2	10	0.56	1.01	0.1	0.2	0.79	0.94	0.1	-0.7	0.70	0.88	0.1	-0.5	0.66	0.89
2	11	0.52	0.96	-0.0	-0.6	0.74	0.91	0.0	-0.6	0.66	0.84	-0.0	-0.5	0.61	0.85
2	12	0.48	0.92	-0.1	-0.3	0.70	0.86	-0.1	-0.9	0.62	0.79	-0.0	-0.6	0.56	0.80
2	13	0.69	1.13	0.3	-0.4	0.92	1.06	0.3	-0.8	0.83	0.99	0.4	-0.6	0.78	1.01
2	14	0.88	1.27	0.2	-1.3	1.10	1.24	0.3	-0.8	1.00	1.16	0.2	-0.6	0.95	1.18
2	15	0.83	1.23	-0.0	-0.4	1.05	1.19	-0.1	-0.6	0.95	1.12	-0.0	-0.6	0.91	1.13
2	16	1.00	1.42	0.1	0.1	1.24	1.36	0.1	-0.8	1.14	1.27	0.1	-0.6	1.09	1.28

TEST PASSED

HAC TEST 527
NOV 30 '81

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27

EV 30 '81

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 28

1981/11/30 09:25:59 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.1-1 INPUT BUFFER TEST (GAIN & OFFSET ERRORS)

VARY + INPUT [.....VARY - INPUT.....]

				[.....-2V.....]				[.....0V.....]				[.....+2V.....]			
		GAIN (%)		OFFSET (MV)		GAIN (%)		OFFSET (MV)		GAIN (%)		OFFSET (MV)		GAIN (%)	
BAND	SENSOR	.5SC	FSCL	DCR=L	DCR=P	.5SC	FSCL	DCR=L	DCR=P	.5SC	FSCL	DCR=L	DCR=P	.5SC	FSCL
		-2.0 TO 2.0	-2.0 TO 2.0	-3.0 TO 3.0	-3.0 TO 3.0	-2.0 TO 2.0	-2.0 TO 2.0	-3.0 TO 3.0	-3.0 TO 3.0	-2.0 TO 2.0	-2.0 TO 2.0	-3.0 TO 3.0	-3.0 TO 3.0	-2.0 TO 2.0	-2.0 TO 2.0
3	1	0.44	0.89	0.2	-0.2	0.68	0.82	0.3	-0.6	0.59	0.75	0.2	-0.4	0.54	0.76
3	2	0.40	0.89	-0.2	-0.1	0.65	0.81	-0.2	-0.7	0.57	0.74	-0.2	-0.4	0.52	0.75
3	3	0.40	0.90	0.0	-0.5	0.67	0.83	0.0	-0.6	0.58	0.76	0.1	-0.5	0.53	0.77
3	4	0.49	0.87	-0.1	-2.1	0.71	0.86	-0.1	-0.5	0.62	0.79	-0.0	-0.4	0.57	0.80
3	5	0.33	0.74	0.3	-0.0	0.56	0.71	0.3	-0.5	0.47	0.65	0.3	-0.4	0.42	0.66
3	6	0.49	0.89	0.0	0.0	0.71	0.86	-0.0	-0.6	0.63	0.79	0.0	-0.5	0.58	0.80
3	7	0.38	0.80	-0.3	-0.3	0.60	0.77	-0.3	-0.5	0.52	0.70	-0.3	-0.4	0.47	0.71
3	8	0.52	0.96	0.1	0.0	0.76	0.91	0.1	-0.6	0.66	0.84	0.1	-0.5	0.62	0.85
3	9	0.52	0.97	-0.2	-0.3	0.76	0.91	-0.3	-0.6	0.67	0.84	-0.3	-0.5	0.62	0.85
3	10	0.67	1.09	-0.1	-0.9	0.93	1.04	-0.1	-0.7	0.83	0.97	-0.1	-0.5	0.77	0.98
3	11	0.55	1.01	0.1	-0.2	0.78	0.95	0.2	-0.6	0.71	0.88	0.1	-0.4	0.66	0.90
3	12	0.64	1.09	0.1	0.0	0.89	1.04	0.2	-0.6	0.80	0.96	0.1	-0.4	0.76	0.98
3	13	0.40	0.89	0.3	0.1	0.65	0.82	0.2	-0.5	0.57	0.75	0.3	-0.4	0.52	0.77
3	14	0.44	0.85	-0.4	-1.0	0.67	0.82	-0.4	-0.6	0.58	0.74	-0.3	-0.5	0.53	0.75
3	15	0.49	0.90	0.1	-0.1	0.74	0.87	0.1	-0.4	0.63	0.79	0.1	-0.3	0.59	0.80
3	16	0.44	0.80	-0.1	-0.7	0.67	0.78	-0.1	-0.6	0.57	0.70	-0.1	-0.4	0.51	0.71

TEST PASSED

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 29

1981/11/30 09:25:59 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

HAC TEST 527

3.5.3.1-1 INPUT BUFFER TEST (GAIN & OFFSET ERRORS)

VARY + INPUT [.....VARY - INPUT.....]

BAND	SENSOR	GAIN (%) .5SC	GAIN (%) FSCL	[.....-2V.....] OFFSET (MV) DCR=L	OFFSET (MV) DCR=P	GAIN (%) .5SC	GAIN (%) FSCL	[.....0V.....] OFFSET (MV) DCR=L	OFFSET (MV) DCR=P	GAIN (%) .5SC	GAIN (%) FSCL	[.....+2V.....] OFFSET (MV) DCR=L	OFFSET (MV) DCR=P	GAIN (%) .5SC	GAIN (%) FSCL
		-2.0 TO 2.0	-2.0 TO 2.0	-3.0 TO 3.0	-3.0 TO 3.0	-2.0 TO 2.0	-2.0 TO 2.0	-3.0 TO 3.0	-3.0 TO 3.0	-2.0 TO 2.0	-2.0 TO 2.0	-3.0 TO 3.0	-3.0 TO 3.0	-2.0 TO 2.0	-2.0 TO 2.0
4	1	0.45	0.86	-0.1	-0.4	0.66	0.82	0.0	-0.7	0.58	0.75	-0.0	-0.5	0.53	0.76
4	2	0.60	1.01	-0.2	-0.1	0.85	0.97	-0.1	-0.7	0.74	0.89	-0.1	-0.6	0.70	0.91
4	3	0.41	0.84	0.2	-0.4	0.63	0.81	0.2	-0.6	0.56	0.75	0.3	-0.5	0.51	0.76
4	4	0.44	0.78	0.1	-1.8	0.65	0.80	0.1	-0.7	0.56	0.72	0.1	-0.5	0.51	0.73
4	5	0.45	0.79	0.6	-0.5	0.65	0.81	0.6	-0.5	0.56	0.74	0.6	-0.4	0.52	0.75
4	6	0.35	0.74	-1.2	2.5	0.53	0.70	0.4	-0.5	0.49	0.66	0.5	-0.4	0.44	0.67
4	7	0.40	0.82	0.1	-0.1	0.66	0.81	0.1	-0.4	0.57	0.74	0.1	-0.3	0.52	0.75
4	8	0.43	0.82	0.2	-0.1	0.66	0.80	0.2	-0.7	0.56	0.72	0.2	-0.5	0.52	0.74
4	9	0.46	0.88	-0.0	-0.2	0.69	0.86	0.0	-0.7	0.60	0.79	0.0	-0.5	0.56	0.80
4	10	0.64	0.99	0.1	-1.2	0.87	0.99	0.1	-0.7	0.77	0.91	0.1	-0.5	0.71	0.92
4	11	0.55	0.93	-0.3	-0.3	0.77	0.92	-0.2	-0.7	0.68	0.85	-0.2	-0.6	0.64	0.87
4	12	0.53	0.93	-0.0	-0.1	0.76	0.91	0.0	-0.8	0.67	0.84	0.0	-0.6	0.62	0.85
4	13	0.50	0.92	-0.0	-0.3	0.72	0.88	-0.0	-0.7	0.64	0.82	-0.0	-0.5	0.59	0.83
4	14	0.67	1.02	0.1	-1.1	0.89	1.02	0.1	-0.7	0.79	0.94	0.2	-0.6	0.75	0.93
4	15	0.67	1.05	-0.2	-0.5	0.89	1.06	-0.1	-0.6	0.80	0.99	-0.2	-0.5	0.76	1.00
4	16	0.57	0.92	-0.0	-0.6	0.80	0.93	0.0	-0.7	0.70	0.86	0.0	-0.5	0.65	0.87

TEST PASSED

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 30

1981/11/30 09:25:59 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.1-1 INPUT BUFFER TEST (GAIN & OFFSET ERRORS) REV 30 81

VARY + INPUT [.....VARY - INPUT.....]

BAND	SENSOR	GAIN (%) .5SC	GAIN (%) FSCL	[.....-2V.....] OFFSET (MV) DCR=L	OFFSET (MV) DCR=P	GAIN (%) .5SC	GAIN (%) FSCL	[.....0V.....] OFFSET (MV) DCR=L	OFFSET (MV) DCR=P	GAIN (%) .5SC	GAIN (%) FSCL	[.....+2V.....] OFFSET (MV) DCR=L	OFFSET (MV) DCR=P	GAIN (%) .5SC	GAIN (%) FSCL
		-2.0 TO 2.0	-2.0 TO 2.0	-3.0 TO 3.0	-3.0 TO 3.0	-2.0 TO 2.0	-2.0 TO 2.0	-3.0 TO 3.0	-3.0 TO 3.0	-2.0 TO 2.0	-2.0 TO 2.0	-3.0 TO 3.0	-3.0 TO 3.0	-2.0 TO 2.0	-2.0 TO 2.0
5	1	0.77	1.15	0.1	-0.5	1.01	1.16	0.1	-0.7	0.90	1.08	0.1	-0.5	0.83	1.04
5	2	0.66	1.04	-0.0	-0.6	0.89	1.06	0.0	-0.3	0.81	0.99	0.0	-0.1	0.74	1.00
5	3	0.37	0.68	-0.1	-0.3	0.51	0.71	-0.0	-0.3	0.43	0.66	-0.0	-0.3	0.40	0.68
5	4	1.11	1.43	0.3	-1.1	1.29	1.46	0.3	-0.6	1.21	1.39	0.3	-0.6	1.16	1.40
5	5	0.69	1.01	0.4	-0.5	0.89	1.04	0.4	-0.6	0.80	0.97	0.5	-0.5	0.75	0.97
5	6	0.55	0.91	-0.1	0.6	0.78	0.93	-0.0	0.0	0.69	0.86	-0.0	0.2	0.64	0.87
5	7	0.44	0.80	0.1	-0.4	0.68	0.82	0.1	-0.4	0.58	0.75	0.1	-0.3	0.53	0.76
5	8	0.67	1.02	-0.3	-0.6	0.89	1.04	-0.3	-0.6	0.80	0.96	-0.2	-0.5	0.75	0.97
5	9	0.44	0.76	-0.3	-0.6	0.65	0.79	-0.2	-0.6	0.55	0.71	-0.2	-0.5	0.50	0.72
5	10	0.41	0.75	-0.4	-0.3	0.62	0.77	-0.3	-0.6	0.52	0.69	-0.3	-0.5	0.48	0.71
5	11	0.63	0.96	-0.0	-0.6	0.83	0.98	-0.0	-0.6	0.74	0.90	0.0	-0.6	0.69	0.92
5	12	0.46	0.80	0.2	-0.5	0.67	0.82	0.2	-0.6	0.58	0.74	0.3	-0.5	0.53	0.76
5	13	0.43	0.78	-0.3	-0.4	0.64	0.80	-0.3	-0.5	0.54	0.72	-0.3	-0.3	0.50	0.73
5	14	0.52	0.85	-0.4	-0.6	0.73	0.87	-0.4	-0.6	0.63	0.80	-0.4	-0.5	0.58	0.81
5	15	0.52	0.86	-0.0	-0.5	0.73	0.89	-0.0	-0.5	0.63	0.81	0.0	-0.4	0.59	0.83
5	16	0.43	0.77	0.3	-0.7	0.63	0.79	0.4	-0.6	0.54	0.72	0.4	-0.4	0.49	0.74

TEST PASSED

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 31

1981/11/30 09:25:59 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.1--1 INPUT BUFFER TEST (GAIN & OFFSET ERROR)

VARY + INPUT [.....VARY - INPUT.....]

				[.....-2V.....]				[.....0V.....]				[.....+2V.....]			
		GAIN (%)		OFFSET (MV)		GAIN (%)		OFFSET (MV)		GAIN (%)		OFFSET (MV)		GAIN (%)	
BAND	SENSOR	.5SC	FSCL	DCR=L	DCR=P	.5SC	FSCL	DCR=L	DCR=P	.5SC	FSCL	DCR=L	DCR=P	.5SC	FSCL
		-2.0 TO 2.0	-2.0 TO 2.0	-3.0 TO 3.0	-3.0 TO 3.0	-2.0 TO 2.0	-2.0 TO 2.0	-3.0 TO 3.0	-3.0 TO 3.0	-2.0 TO 2.0	-2.0 TO 2.0	-3.0 TO 3.0	-3.0 TO 3.0	-2.0 TO 2.0	-2.0 TO 2.0
6	1	0.58	0.89	0.9	-0.4	0.76	0.90	1.0	-0.5	0.66	0.83	0.6	-0.3	0.61	0.84
6	2	0.57	0.89	1.0	-0.5	0.76	0.91	1.0	-0.5	0.66	0.83	0.7	-0.2	0.61	0.85
6	3	0.50	0.81	0.9	-0.4	0.68	0.83	0.9	-0.4	0.58	0.75	0.6	-0.3	0.53	0.76
6	4	0.59	0.91	0.7	-0.7	0.77	0.94	0.8	-0.6	0.67	0.86	0.4	-0.2	0.63	0.89

TEST PASSED

ORIGINAL PAGE IS
OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 32

1981/11/30 09:25:59 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.1-1 INPUT BUFFER TEST (GAIN & OFFSET FINDINGS)

VARY + INPUT [.....VARY - INPUT.....]

BAND	SENSOR	GAIN (%) .5SC	GAIN (%) FSCL	[.....-2V.....] OFFSET (MV) DCR=L	OFFSET (MV) DCR=P	GAIN (%) .5SC	GAIN (%) FSCL	[.....0V.....] OFFSET (MV) DCR=L	OFFSET (MV) DCR=P	GAIN (%) .5SC	GAIN (%) FSCL	[.....+2V.....] OFFSET (MV) DCR=L	OFFSET (MV) DCR=P	GAIN (%) .5SC	GAIN (%) FSCL
		-2.0 TO 2.0	-2.0 TO 2.0	-3.0 TO 3.0	-3.0 TO 3.0	-2.0 TO 2.0	-2.0 TO 2.0	-3.0 TO 3.0	-3.0 TO 3.0	-2.0 TO 2.0	-2.0 TO 2.0	-3.0 TO 3.0	-3.0 TO 3.0	-2.0 TO 2.0	-2.0 TO 2.0
7	1	0.68	0.98	0.3	-0.7	0.88	1.01	0.3	-0.6	0.77	0.93	0.3	-0.5	0.72	0.94
7	2	0.58	0.93	-0.2	-0.5	0.80	0.95	-0.2	-0.7	0.71	0.88	-0.1	-0.5	0.66	0.89
7	3	0.58	0.93	0.4	-0.6	0.81	0.96	0.5	-0.8	0.72	0.88	0.5	-0.6	0.67	0.90
7	4	0.55	0.88	0.0	-0.7	0.76	0.90	0.1	-0.6	0.66	0.83	0.1	-0.5	0.61	0.85
7	5	0.50	0.84	0.4	-0.6	0.70	0.86	0.3	-0.6	0.61	0.79	0.4	-0.5	0.56	0.81
7	6	0.55	0.89	-0.2	-0.3	0.76	0.92	-0.2	-0.6	0.67	0.85	-0.1	-0.4	0.62	0.86
7	7	0.54	0.89	0.1	-0.6	0.75	0.92	0.1	-0.6	0.66	0.84	0.1	-0.4	0.61	0.86
7	8	0.54	0.86	-0.3	-0.4	0.73	0.89	-0.3	-0.5	0.64	0.82	-0.2	-0.4	0.59	0.83
7	9	0.63	0.97	0.0	-0.6	0.83	0.99	-0.0	-0.6	0.74	0.92	0.1	-0.5	0.69	0.94
7	10	0.54	0.87	-0.3	-0.5	0.75	0.90	-0.2	-0.7	0.64	0.82	-0.2	-0.5	0.60	0.83
7	11	0.67	1.01	-0.0	-0.5	0.88	1.03	0.0	-0.6	0.78	0.95	0.0	-0.5	0.74	0.97
7	12	0.48	0.81	0.4	-0.6	0.67	0.84	0.4	-0.5	0.58	0.77	0.4	-0.4	0.54	0.79
7	13	0.89	1.16	-0.3	-0.3	1.08	1.16	-0.2	-0.7	0.99	1.08	-0.2	-0.6	0.97	1.08
7	14	0.92	1.24	-0.2	-0.8	1.12	1.27	-0.1	-0.7	1.03	1.19	-0.1	-0.6	0.98	1.20
7	15	1.01	1.35	0.3	-0.7	1.22	1.37	0.3	-0.6	1.13	1.30	0.3	-0.6	1.08	1.31
7	16	0.79	1.12	0.1	-0.5	0.99	1.14	0.1	-0.7	0.90	1.07	0.1	-0.6	0.85	1.09

TEST PASSED

HAC TEST 5.27 NOV 30 '81

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 33

1981/11/30 09:27:57 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

INPUT BUFFER TEST (READINGS)

[...DCR=LEVEL...] [.....D.C.R.=..PULSE .....] .-P X-F

BAND	SENSOR	INPUT	A/D TP	INPUT	A/D TP	INPUT	A/D TP	INPUT	A/D TP	1 2 3 4 5 6 / 8

THE FOLLOWING DATA ARE FOR INFORMATION ONLY

A/D REFERENCE VOLTAGES

		A/D	1	2	3	4	5	6	7		
		LOW	1.9680	1.9680	1.9680	1.9680	1.9680	1.9650	1.9680		
		DVM	1.9855	1.9923	1.9900	1.9910	1.9864	1.9840	1.9895		
		HIGH	1.9980	1.9980	1.9980	1.9980	1.9980	1.9950	1.9980		
			0.0550 TO 0.0750	1.9650 TO 1.9950	-0.0150 TO 0.0150	1.9970 TO 2.0270	2.0550 TO 2.0850	0.9650 TO 0.9950	4.1250 TO 4.1550	-0.0700 TO -0.0300	
1	1	-2V	0.0674	1.9797	0.0042	2.0117	2.0693	0.9857	4.1342	-0.0373	. . . . .
		0V	0.0648	1.9797	-0.0000	2.0117	2.0652	0.9846	4.1302	-0.0391	. . . . .
		+2V	0.0675	1.9798	0.0028	2.0117	2.0679	0.9842	4.1328	-0.0387	. . . . .
1	2	-2V	0.0688	1.9796	0.0053	2.0116	2.0703	0.9839	4.1353	-0.0410	. . . . .
		0V	0.0643	1.9796	-0.0008	2.0116	2.0646	0.9827	4.1299	-0.0429	. . . . .
		+2V	0.0676	1.9796	0.0029	2.0116	2.0680	0.9823	4.1330	-0.0423	. . . . .
1	3	-2V	0.0697	1.9793	0.0048	2.0116	2.0698	0.9874	4.1348	-0.0336	. . . . .
		0V	0.0644	1.9793	-0.0005	2.0116	2.0648	0.9863	4.1301	-0.0353	. . . . .
		+2V	0.0676	1.9793	0.0030	2.0116	2.0680	0.9859	4.1330	-0.0348	. . . . .
1	4	-2V	0.0697	1.9800	0.0007	2.0119	2.0659	0.9874	4.1311	-0.0339	. . . . .
		0V	0.0642	1.9800	-0.0011	2.0121	2.0643	0.9866	4.1296	-0.0353	. . . . .
		+2V	0.0661	1.9800	0.0014	2.0119	2.0665	0.9860	4.1317	-0.0350	. . . . .

HAC TEST 527

NOV 30 '81

ORIGINAL PAGE IS OF POOR QUALITY

S-236 THEMATIC MAPPER MUX UNIT TEST MODEL .. FLT. S/N 3 PAGE 34

981/11/30 09:27:57 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

TIME-OUT HALF-TIMER TEST (PRE-SCREENING)

HAC TEST 527

NOV 30 '81

			[...DCK-LEVEL ...]		[.....D.C.R.-..PULSE												
ND	SENSOR		INPUT	A/D TP	INPUT	A/D TP	INPUT	A/D TP	INPUT	A/D TP	1	2	3	4	5	6	7	8
1	5	-2V	0.0655	1.9796	0.0007	2.0115	2.0659	0.9881	4.1311	-0.0325	.	.	.	.	.	.	.	.
		0V	0.0638	1.9797	-0.0011	2.0117	2.0643	0.9871	4.1297	-0.0341	.	.	.	.	.	.	.	.
		+2V	0.0661	1.9797	0.0015	2.0116	2.0666	0.9867	4.1317	-0.0337	.	.	.	.	.	.	.	.
1	6	-2V	0.0654	1.9796	0.0031	2.0115	2.0681	0.9858	4.1330	-0.0370	.	.	.	.	.	.	.	.
		0V	0.0649	1.9796	-0.0001	2.0116	2.0652	0.9847	4.1302	-0.0386	.	.	.	.	.	.	.	.
		+2V	0.0671	1.9796	0.0026	2.0116	2.0676	0.9843	4.1325	-0.0382	.	.	.	.	.	.	.	.
1	7	-2V	0.0679	1.9797	0.0033	2.0116	2.0684	0.9881	4.1333	-0.0325	.	.	.	.	.	.	.	.
		0V	0.0648	1.9797	-0.0000	2.0116	2.0652	0.9870	4.1302	-0.0342	.	.	.	.	.	.	.	.
		+2V	0.0672	1.9798	0.0026	2.0116	2.0677	0.9866	4.1326	-0.0338	.	.	.	.	.	.	.	.
1	8	-2V	0.0680	1.9795	0.0041	2.0115	2.0691	0.9885	4.1343	-0.0312	.	.	.	.	.	.	.	.
		0V	0.0647	1.9795	-0.0003	2.0115	2.0650	0.9875	4.1301	-0.0329	.	.	.	.	.	.	.	.
		+2V	0.0671	1.9796	0.0024	2.0115	2.0675	0.9871	4.1326	-0.0325	.	.	.	.	.	.	.	.
1	9	-2V	0.0690	1.9793	0.0054	2.0113	2.0705	0.9859	4.1355	-0.0365	.	.	.	.	.	.	.	.
		0V	0.0646	1.9793	-0.0003	2.0113	2.0650	0.9847	4.1301	-0.0382	.	.	.	.	.	.	.	.
		+2V	0.0674	1.9793	0.0027	2.0113	2.0678	0.9844	4.1328	-0.0377	.	.	.	.	.	.	.	.
1	10	-2V	0.0701	1.9794	0.0040	2.0114	2.0691	0.9855	4.1341	-0.0372	.	.	.	.	.	.	.	.
		0V	0.0648	1.9794	-0.0002	2.0114	2.0650	0.9845	4.1301	-0.0388	.	.	.	.	.	.	.	.
		+2V	0.0672	1.9794	0.0026	2.0114	2.0677	0.9841	4.1326	-0.0384	.	.	.	.	.	.	.	.
1	11	-2V	0.0685	1.9796	0.0040	2.0116	2.0690	0.9856	4.1340	-0.0373	.	.	.	.	.	.	.	.
		0V	0.0647	1.9796	-0.0002	2.0116	2.0651	0.9845	4.1302	-0.0388	.	.	.	.	.	.	.	.
		+2V	0.0673	1.9796	0.0026	2.0116	2.0677	0.9841	4.1327	-0.0384	.	.	.	.	.	.	.	.

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27 NOV 30 '81

981/11/30 09:27:57 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

TRANSMITTER BUFFER TEST (REPEATABILITY)

			[...DCR=LEVEL...]		[.....D.C.R.=..PULSE					--P							X--F
ND	SENSOR		INPUT	A/D TP	INPUT	A/D TP	INPUT	A/D TP	INPUT	A/D TP	1	2	3	4	5	6	7	8
1	12	-2V	0.0687	1.9792	0.0057	2.0114	2.0708	0.9835	4.1359	-0.0378	.	.	.	.	.	.	.	.
		0V	0.0646	1.9793	-0.0005	2.0113	2.0649	0.9843	4.1300	-0.0396	.	.	.	.	.	.	.	.
		+2V	0.0675	1.9792	0.0028	2.0113	2.0679	0.9839	4.1329	-0.0392	.	.	.	.	.	.	.	.
1	13	-2V	0.0713	1.9790	0.0069	2.0110	2.0719	0.9855	4.1371	-0.0370	.	.	.	.	.	.	.	.
		0V	0.0643	1.9790	-0.0006	2.0109	2.0647	0.9844	4.1300	-0.0388	.	.	.	.	.	.	.	.
		+2V	0.0676	1.9790	0.0029	2.0109	2.0679	0.9840	4.1330	-0.0383	.	.	.	.	.	.	.	.
1	14	-2V	0.0710	1.9795	0.0047	2.0115	2.0697	0.9870	4.1348	-0.0348	.	.	.	.	.	.	.	.
		0V	0.0650	1.9795	-0.0000	2.0114	2.0652	0.9859	4.1302	-0.0366	.	.	.	.	.	.	.	.
		+2V	0.0674	1.9796	0.0027	2.0114	2.0678	0.9854	4.1327	-0.0362	.	.	.	.	.	.	.	.
1	15	-2V	0.0690	1.9797	0.0049	2.0117	2.0699	0.9862	4.1350	-0.0367	.	.	.	.	.	.	.	.
		0V	0.0648	1.9797	-0.0001	2.0116	2.0652	0.9850	4.1303	-0.0380	.	.	.	.	.	.	.	.
		+2V	0.0675	1.9797	0.0029	2.0117	2.0679	0.9847	4.1328	-0.0375	.	.	.	.	.	.	.	.
1	16	-2V	0.0699	1.9796	0.0043	2.0116	2.0694	0.9865	4.1344	-0.0364	.	.	.	.	.	.	.	.
		0V	0.0648	1.9797	-0.0002	2.0116	2.0650	0.9854	4.1301	-0.0382	.	.	.	.	.	.	.	.
		+2V	0.0672	1.9797	0.0025	2.0116	2.0676	0.9849	4.1326	-0.0379	.	.	.	.	.	.	.	.
2	1	-2V	0.0687	1.9865	0.0047	2.0185	2.0699	0.9942	4.1349	-0.0269	.	.	.	.	.	.	.	*
		0V	0.0646	1.9864	-0.0003	2.0184	2.0650	0.9931	4.1301	-0.0284	.	.	.	.	.	.	.	*
		+2V	0.0673	1.9865	0.0026	2.0184	2.0677	0.9927	4.1327	-0.0280	.	.	.	.	.	.	.	*
2	2	-2V	0.0694	1.9866	0.0062	2.0186	2.0713	0.9946	4.1362	-0.0242	.	.	.	.	.	.	.	*
		0V	0.0649	1.9866	-0.0002	2.0186	2.0651	0.9935	4.1302	-0.0277	.	.	.	.	.	.	.	*
		+2V	0.0676	1.9867	0.0029	2.0186	2.0679	0.9931	4.1329	-0.0273	.	.	.	.	.	.	.	*

ORIGINAL PAGE IS OF POOR QUALITY

ORIGINAL PAGE IS
OF POOR QUALITY

HAC TEST 527

HS-236 THEMATTC MAPPER MUX UNIT TEST MODEL .. FLT. S/N 3 PAGE 3A

1981/11/30 09:27:57 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

INPUT BUFFER TEST (READINGS)

BAND	SENSOR		[...DCR=LEVEL ...] INPUT	A/D TP	[.....D.C.R.=..PULSE .....] INPUT	A/D TP	INPUT	A/D TP	INPUT	A/D TP	1	2	3	4	5	6	7	8
2	3	-2V	0.0711	1.9861	0.0062	2.0181	2.0713	0.9932	4.1362	-0.0284	.	.	.	.	.	.	.	*
		0V	0.0648	1.9861	-0.0002	2.0180	2.0651	0.9920	4.1307	-0.0300	.	.	.	.	.	.	.	.
		+2V	0.0676	1.9861	0.0029	2.0180	2.0680	0.9917	4.1330	-0.0296	.	.	.	.	.	.	.	*
2	4	-2V	0.0711	1.9867	0.0024	2.0187	2.0675	0.9946	4.1326	-0.0263	.	.	.	.	.	.	.	*
		0V	0.0650	1.9868	-0.0002	2.0188	2.0650	0.9937	4.1301	-0.0277	.	.	.	.	.	.	.	*
		+2V	0.0669	1.9868	0.0022	2.0187	2.0673	0.9932	4.1323	-0.0274	.	.	.	.	.	.	.	*
2	5	-2V	0.0669	1.9868	0.0040	2.0188	2.0691	0.9939	4.1343	-0.0276	.	.	.	.	.	.	.	*
		0V	0.0645	1.9868	-0.0004	2.0186	2.0649	0.9928	4.1307	-0.0291	.	.	.	.	.	.	.	*
		+2V	0.0672	1.9869	0.0025	2.0187	2.0676	0.9925	4.1328	-0.0286	.	.	.	.	.	.	.	*
2	6	-2V	0.0686	1.9861	0.0078	2.0182	2.0728	0.9947	4.1379	-0.0254	.	.	.	.	.	.	.	*
		0V	0.0635	1.9861	-0.0009	2.0180	2.0645	0.9935	4.1297	-0.0272	.	.	.	.	.	.	.	*
		+2V	0.0671	1.9861	0.0025	2.0181	2.0676	0.9937	4.1327	-0.0267	.	.	.	.	.	.	.	*
2	7	-2V	0.0734	1.9862	0.0078	2.0184	2.0729	0.9944	4.1381	-0.0257	.	.	.	.	.	.	.	*
		0V	0.0638	1.9862	-0.0010	2.0183	2.0643	0.9931	4.1297	-0.0285	.	.	.	.	.	.	.	*
		+2V	0.0675	1.9862	0.0025	2.0183	2.0675	0.9928	4.1327	-0.0279	.	.	.	.	.	.	.	*
2	8	-2V	0.0739	1.9866	0.0039	2.0190	2.0687	0.9942	4.1340	-0.0270	.	.	.	.	.	.	.	*
		0V	0.0641	1.9866	-0.0015	2.0188	2.0637	0.9933	4.1291	-0.0285	.	.	.	.	.	.	.	*
		+2V	0.0664	1.9866	0.0015	2.0186	2.0663	0.9928	4.1312	-0.0280	.	.	.	.	.	.	.	*
2	9	-2V	0.0684	1.9861	0.0036	2.0180	2.0680	0.9959	4.1326	-0.0234	.	.	.	.	.	*	.	*
		0V	0.0636	1.9861	-0.0015	2.0180	2.0634	0.9947	4.1280	-0.0251	.	.	.	.	.	.	.	*
		+2V	0.0660	1.9862	0.0014	2.0180	2.0659	0.9943	4.1304	-0.0245	.	.	.	.	.	.	.	*

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 37

1981/11/30 09:27:57 PENALTY FULL PERFORMANCE @ AMBIENT TEMP..

INPUT BUFFER TEST (READINGS)

BAND	SENSOR		[...DCR=LEVEL...] INPUT	A/D TP	[.....D.C.R.=..PULSE .....] INPUT	A/D TP	INPUT	A/D TP	INPUT	A/D TP	.=P *=F 1	2	3	4	5	6	7	8
2	10	-2V	0.0689	1.9864	0.0054	2.0184	2.0704	0.9941	4.1353	-0.0271	.	.	.	.	.	.	.	*
		0V	0.0649	1.9865	-0.0001	2.0183	2.0652	0.9930	4.1307	-0.0287	.	.	.	.	.	.	.	*
		+2V	0.0675	1.9864	0.0028	2.0183	2.0678	0.9926	4.1328	-0.0282	.	.	.	.	.	.	.	*
2	11	-2V	0.0700	1.9863	0.0051	2.0187	2.0701	0.9934	4.1351	-0.0281	.	.	.	.	.	.	.	*
		0V	0.0648	1.9863	-0.0001	2.0182	2.0652	0.9923	4.1307	-0.0297	.	.	.	.	.	.	.	*
		+2V	0.0674	1.9863	0.0028	2.0182	2.0678	0.9920	4.1327	-0.0292	.	.	.	.	.	.	.	*
2	12	-2V	0.0698	1.9862	0.0051	2.0183	2.0701	0.9931	4.1353	-0.0291	.	.	.	.	.	.	.	*
		0V	0.0655	1.9862	-0.0002	2.0182	2.0651	0.9920	4.1303	-0.0307	.	.	.	.	.	.	.	.
		+2V	0.0677	1.9863	0.0026	2.0183	2.0677	0.9916	4.1327	-0.0302	.	.	.	.	.	.	.	.
2	13	-2V	0.0699	1.9866	0.0051	2.0186	2.0701	0.9956	4.1357	-0.0245	.	.	.	.	.	*	.	*
		0V	0.0651	1.9867	-0.0002	2.0185	2.0651	0.9945	4.1303	-0.0262	.	.	.	.	.	.	.	.
		+2V	0.0675	1.9867	0.0025	2.0186	2.0676	0.9941	4.1327	-0.0257	.	.	.	.	.	.	.	*
2	14	-2V	0.0699	1.9865	0.0039	2.0183	2.0688	0.9972	4.1338	-0.0211	.	.	.	.	.	*	.	*
		0V	0.0650	1.9866	-0.0000	2.0183	2.0652	0.9961	4.1302	-0.0228	.	.	.	.	.	*	.	*
		+2V	0.0672	1.9866	0.0025	2.0183	2.0676	0.9956	4.1325	-0.0224	.	.	.	.	.	*	.	*
2	15	-2V	0.0688	1.9863	0.0043	2.0182	2.0694	0.9964	4.1344	-0.0223	.	.	.	.	.	*	.	*
		0V	0.0649	1.9863	-0.0000	2.0181	2.0652	0.9954	4.1307	-0.0239	.	.	.	.	.	*	.	*
		+2V	0.0673	1.9863	0.0026	2.0181	2.0677	0.9950	4.1326	-0.0235	.	.	.	.	.	.	.	*
2	16	-2V	0.0688	1.9864	0.0054	2.0182	2.0704	0.9985	4.1354	-0.0188	.	.	.	.	.	*	.	*
		0V	0.0650	1.9864	-0.0001	2.0187	2.0652	0.9974	4.1302	-0.0206	.	.	.	.	.	*	.	*
		+2V	0.0675	1.9864	0.0028	2.0182	2.0679	0.9970	4.1329	-0.0203	.	.	.	.	.	*	.	*

HAC TEST S27 NOV 30 '81

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST 527

NOV 30 '81

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 38

1981/11/30 09:27:57 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

INPUT BUFFER TEST (READINGS)

BAND	SENSOR		[...DCR-LEVEL...] INPUT	A/D TP	[.....D.C.R.-..PULSE .....] INPUT	A/D TP	INPUT	A/D TP	INPUT	A/D TP	1	2	3	4	5	6	7	8
3	1	-2V	0.0700	1.9842	0.0056	2.0162	2.0707	0.9907	4.1356	-0.0318	.	.	.	.	.	.	.	.
		0V	0.0647	1.9842	-0.0002	2.0161	2.0651	0.9895	4.1301	-0.0336	.	.	.	.	.	.	.	.
		+2V	0.0675	1.9842	0.0029	2.0161	2.0679	0.9892	4.1329	-0.0331	.	.	.	.	.	.	.	.
3	2	-2V	0.0702	1.9837	0.0059	2.0157	2.0708	0.9900	4.1359	-0.0326	.	.	.	.	.	.	.	.
		0V	0.0643	1.9838	-0.0008	2.0157	2.0646	0.9889	4.1299	-0.0343	.	.	.	.	.	.	.	.
		+2V	0.0675	1.9838	0.0027	2.0157	2.0678	0.9885	4.1329	-0.0339	.	.	.	.	.	.	.	.
3	3	-2V	0.0708	1.9840	0.0059	2.0159	2.0709	0.9903	4.1360	-0.0321	.	.	.	.	.	.	.	.
		0V	0.0643	1.9840	-0.0007	2.0158	2.0647	0.9892	4.1300	-0.0338	.	.	.	.	.	.	.	.
		+2V	0.0675	1.9840	0.0028	2.0159	2.0679	0.9888	4.1330	-0.0332	.	.	.	.	.	.	.	.
3	4	-2V	0.0708	1.9838	0.0025	2.0159	2.0675	0.9907	4.1377	-0.0315	.	.	.	.	.	.	.	.
		0V	0.0642	1.9839	-0.0009	2.0159	2.0645	0.9897	4.1298	-0.0331	.	.	.	.	.	.	.	.
		+2V	0.0667	1.9839	0.0020	2.0159	2.0671	0.9893	4.1327	-0.0326	.	.	.	.	.	.	.	.
3	5	-2V	0.0672	1.9842	0.0031	2.0163	2.0683	0.9895	4.1335	-0.0341	.	.	.	.	.	.	.	.
		0V	0.0640	1.9843	-0.0010	2.0163	2.0644	0.9885	4.1299	-0.0357	.	.	.	.	.	.	.	.
		+2V	0.0667	1.9843	0.0020	2.0163	2.0671	0.9881	4.1323	-0.0352	.	.	.	.	.	.	.	.
3	6	-2V	0.0675	1.9840	0.0037	2.0159	2.0688	0.9908	4.1338	-0.0313	.	.	.	.	.	.	.	.
		0V	0.0648	1.9839	-0.0001	2.0159	2.0651	0.9897	4.1301	-0.0329	.	.	.	.	.	.	.	.
		+2V	0.0673	1.9840	0.0027	2.0159	2.0677	0.9893	4.1326	-0.0326	.	.	.	.	.	.	.	.
3	7	-2V	0.0686	1.9836	0.0042	2.0156	2.0691	0.9893	4.1341	-0.0335	.	.	.	.	.	.	.	.
		0V	0.0647	1.9836	-0.0001	2.0155	2.0651	0.9883	4.1302	-0.0351	.	.	.	.	.	.	.	.
		+2V	0.0673	1.9837	0.0027	2.0156	2.0678	0.9879	4.1327	-0.0347	.	.	.	.	.	.	.	.

ORIGINAL PAGE IS OF POOR QUALITY

ORIGINAL PAGE IS
OF POOR QUALITY

HAC
TEST
S27
NOV 30 '81

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3

1981/11/30 09:27:57 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

INPUT BUFFER TEST (READINGS)

BAND	SENSOR		[...DCR=LEVEL...] INPUT	A/D TP	[.....D.C.R.=..PULSE .....] INPUT	A/D TP	INPUT	A/D TP	INPUT	A/D TP	.=P *=F 1	2	3	4	5	6	7	8
3	8	-2V	0.0685	1.9840	0.0047	2.0160	2.0697	0.9913	4.1346	-0.0302	.	.	.	.	.	.	.	.
		0V	0.0649	1.9841	-0.0002	2.0160	2.0651	0.9902	4.1301	-0.0318	.	.	.	.	.	.	.	.
		+2V	0.0674	1.9840	0.0027	2.0160	2.0678	0.9898	4.1328	-0.0314	.	.	.	.	.	.	.	.
3	9	-2V	0.0694	1.9837	0.0051	2.0156	2.0702	0.9909	4.1352	-0.0307	.	.	.	.	.	.	.	.
		0V	0.0647	1.9837	-0.0002	2.0155	2.0650	0.9898	4.1301	-0.0323	.	.	.	.	.	.	.	.
		+2V	0.0675	1.9837	0.0028	2.0155	2.0679	0.9895	4.1329	-0.0319	.	.	.	.	.	.	.	.
3	10	-2V	0.0697	1.9838	0.0041	2.0157	2.0692	0.9928	4.1344	-0.0278	.	.	.	.	.	.	.	*
		0V	0.0640	1.9838	-0.0011	2.0158	2.0642	0.9916	4.1297	-0.0296	.	.	.	.	.	.	.	*
		+2V	0.0670	1.9839	0.0022	2.0158	2.0673	0.9912	4.1325	-0.0292	.	.	.	.	.	.	.	*
3	11	-2V	0.0691	1.9840	0.0047	2.0161	2.0696	0.9917	4.1350	-0.0295	.	.	.	.	.	.	.	*
		0V	0.0638	1.9841	-0.0012	2.0160	2.0642	0.9907	4.1297	-0.0311	.	.	.	.	.	.	.	.
		+2V	0.0668	1.9841	0.0022	2.0160	2.0672	0.9903	4.1324	-0.0305	.	.	.	.	.	.	.	.
3	12	-2V	0.0691	1.9840	0.0052	2.0161	2.0701	0.9928	4.1357	-0.0275	.	.	.	.	.	.	.	*
		0V	0.0647	1.9841	-0.0004	2.0161	2.0649	0.9917	4.1300	-0.0292	.	.	.	.	.	.	.	*
		+2V	0.0677	1.9841	0.0029	2.0160	2.0680	0.9913	4.1331	-0.0288	.	.	.	.	.	.	.	*
3	13	-2V	0.0695	1.9842	0.0055	2.0163	2.0706	0.9905	4.1358	-0.0319	.	.	.	.	.	.	.	.
		0V	0.0645	1.9842	-0.0004	2.0162	2.0649	0.9894	4.1300	-0.0334	.	.	.	.	.	.	.	.
		+2V	0.0676	1.9842	0.0030	2.0162	2.0681	0.9890	4.1331	-0.0330	.	.	.	.	.	.	.	.
3	14	-2V	0.0700	1.9835	0.0041	2.0155	2.0691	0.9899	4.1341	-0.0326	.	.	.	.	.	.	.	.
		0V	0.0650	1.9836	-0.0000	2.0155	2.0652	0.9888	4.1302	-0.0343	.	.	.	.	.	.	.	.
		+2V	0.0675	1.9836	0.0028	2.0155	2.0678	0.9885	4.1327	-0.0339	.	.	.	.	.	.	.	.

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 40

1981/11/30 09:27:57 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

INPUT BUFFER TEST (READINGS)

BAND	SENSOR		[...DCR=LEVEL...] INPUT	A/D TP	[.....D.C.R.=..PULSE .....] INPUT	A/D TP	INPUT	A/D TP	INPUT	A/D TP	.=P 1	2	3	4	5	x-F 6	7	8
3	15	-2V	0.0688	1.9840	0.0043	2.0161	2.0693	0.9913	4.1343	-0.0309	.	.	.	.	.	.	.	.
		0V	0.0648	1.9841	-0.0000	2.0161	2.0652	0.9901	4.1302	-0.0327	.	.	.	.	.	.	.	.
		+2V	0.0675	1.9841	0.0029	2.0161	2.0679	0.9897	4.1328	-0.0323	.	.	.	.	.	.	.	.
3	16	-2V	0.0688	1.9838	0.0034	2.0158	2.0686	0.9902	4.1336	-0.0331	.	.	.	.	.	.	.	.
		0V	0.0650	1.9838	-0.0001	2.0158	2.0651	0.9991	4.1301	-0.0348	.	.	.	.	.	.	.	.
		+2V	0.0673	1.9839	0.0026	2.0158	2.0676	0.9886	4.1326	-0.0345	.	.	.	.	.	.	.	.
4	1	-2V	0.0686	1.9849	0.0040	2.0168	2.0690	0.9912	4.1340	-0.0313	.	.	.	.	.	.	.	.
		0V	0.0647	1.9850	-0.0002	2.0168	2.0651	0.9901	4.1301	-0.0329	.	.	.	.	.	.	.	.
		+2V	0.0670	1.9850	0.0023	2.0168	2.0674	0.9897	4.1324	-0.0325	.	.	.	.	.	.	.	.
4	2	-2V	0.0685	1.9848	0.0046	2.0167	2.0696	0.9929	4.1346	-0.0287	.	.	.	.	.	.	.	.
		0V	0.0649	1.9849	-0.0002	2.0167	2.0651	0.9918	4.1302	-0.0300	.	.	.	.	.	.	.	.
		+2V	0.0676	1.9849	0.0029	2.0167	2.0679	0.9914	4.1329	-0.0296	.	.	.	.	.	.	.	.
4	3	-2V	0.0690	1.9852	0.0043	2.0172	2.0693	0.9912	4.1343	-0.0311	.	.	.	.	.	.	.	.
		0V	0.0648	1.9852	-0.0001	2.0171	2.0651	0.9903	4.1302	-0.0376	.	.	.	.	.	.	.	.
		+2V	0.0675	1.9853	0.0029	2.0171	2.0679	0.9899	4.1329	-0.0327	.	.	.	.	.	.	.	.
4	4	-2V	0.0689	1.9851	0.0015	2.0170	2.0666	0.9912	4.1317	-0.0317	.	.	.	.	.	.	.	.
		0V	0.0649	1.9851	-0.0003	2.0171	2.0650	0.9902	4.1301	-0.0332	.	.	.	.	.	.	.	.
		+2V	0.0669	1.9851	0.0021	2.0171	2.0672	0.9898	4.1322	-0.0329	.	.	.	.	.	.	.	.
4	5	-2V	0.0662	1.9856	0.0014	2.0175	2.0666	0.9917	4.1317	-0.0309	.	.	.	.	.	.	.	.
		0V	0.0646	1.9856	-0.0003	2.0176	2.0650	0.9907	4.1301	-0.0324	.	.	.	.	.	.	.	.
		+2V	0.0667	1.9856	0.0020	2.0176	2.0671	0.9904	4.1322	-0.0320	.	.	.	.	.	.	.	.

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST 527

ORIGINAL PAGE IS
OF POOR QUALITY

HAC TEST 527
NOV 30 '81

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3

1981/11/30 09:27:57 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

INPUT BUFFER TEST (READINGS)

BAND	SENSOR		[...DCR-1 FVEL...] INPUT	A/D TP	[.....D.C.R.=..PULSE INPUT	A/D TP	INPUT	A/D TP	INPUT	A/D TP	.-P *-F 1	2	3	4	5	6	7	8
4	6	-2V	0.0663	1.9838	0.0038	2.0175	2.0679	0.9910	4.1332	-0.0326	.	.	.	.	.	.	.	.
		0V	0.0643	1.9854	-0.0007	2.0175	2.0646	0.9900	4.1299	-0.0342	.	.	.	.	.	.	.	.
		+2V	0.0671	1.9855	0.0024	2.0174	2.0674	0.9895	4.1325	-0.0338	.	.	.	.	.	.	.	.
4	7	-2V	0.0675	1.9851	0.0033	2.0171	2.0684	0.9914	4.1336	-0.0313	.	.	.	.	.	.	.	.
		0V	0.0641	1.9851	-0.0009	2.0172	2.0645	0.9904	4.1299	-0.0330	.	.	.	.	.	.	.	.
		+2V	0.0672	1.9851	0.0026	2.0172	2.0676	0.9900	4.1327	-0.0325	.	.	.	.	.	.	.	.
4	8	-2V	0.0677	1.9852	0.0033	2.0173	2.0683	0.9916	4.1334	-0.0313	.	.	.	.	.	.	.	.
		0V	0.0653	1.9852	-0.0003	2.0173	2.0650	0.9905	4.1302	-0.0331	.	.	.	.	.	.	.	.
		+2V	0.0676	1.9852	0.0025	2.0172	2.0676	0.9901	4.1327	-0.0326	.	.	.	.	.	.	.	.
4	9	-2V	0.0680	1.9850	0.0035	2.0170	2.0686	0.9916	4.1337	-0.0304	.	.	.	.	.	.	.	.
		0V	0.0650	1.9850	-0.0003	2.0170	2.0650	0.9906	4.1302	-0.0319	.	.	.	.	.	.	.	.
		+2V	0.0675	1.9850	0.0026	2.0170	2.0676	0.9902	4.1327	-0.0315	.	.	.	.	.	.	.	.
4	10	-2V	0.0683	1.9851	0.0024	2.0169	2.0675	0.9933	4.1325	-0.0276	.	.	.	.	.	.	.	*
		0V	0.0650	1.9851	-0.0001	2.0169	2.0652	0.9923	4.1302	-0.0293	.	.	.	.	.	.	.	*
		+2V	0.0672	1.9851	0.0025	2.0170	2.0675	0.9918	4.1325	-0.0289	.	.	.	.	.	.	.	*
4	11	-2V	0.0671	1.9847	0.0028	2.0166	2.0678	0.9921	4.1328	-0.0293	.	.	.	.	.	.	.	*
		0V	0.0648	1.9848	0.0000	2.0165	2.0652	0.9910	4.1302	-0.0309	.	.	.	.	.	.	.	.
		+2V	0.0673	1.9848	0.0026	2.0166	2.0677	0.9907	4.1326	-0.0304	.	.	.	.	.	.	.	.
4	12	-2V	0.0677	1.9850	0.0035	2.0170	2.0685	0.9923	4.1336	-0.0293	.	.	.	.	.	.	.	*
		0V	0.0652	1.9850	-0.0003	2.0170	2.0650	0.9913	4.1302	-0.0309	.	.	.	.	.	.	.	.
		+2V	0.0677	1.9850	0.0026	2.0170	2.0677	0.9909	4.1327	-0.0304	.	.	.	.	.	.	.	.

ORIGINAL PAGE IS
OF POOR QUALITY

HAC
TEST
S27
10/30/81

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3

1981/11/30 09:27:57 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

INPUT BUFFER TEST (READINGS)

BAND	SENSOR		[...DCR-LEVEL...] INPUT	A/D TP	[.....D.C.R.=..PULSE .....] INPUT	A/D TP	INPUT	A/D TP	INPUT	A/D TP	.=P *-F 1	2	3	4	5	6	7	8
4	13	-2V	0.0685	1.9850	0.0039	2.0170	2.0689	0.9920	4.1341	-0.0298	.	.	.	.	.	.	.	*
		0V	0.0650	1.9850	-0.0003	2.0169	2.0650	0.9909	4.1302	-0.0314	.	.	.	.	.	.	.	.
		+2V	0.0675	1.9850	0.0026	2.0169	2.0677	0.9906	4.1327	-0.0309	.	.	.	.	.	.	.	.
4	14	-2V	0.0680	1.9851	0.0023	2.0169	2.0674	0.9936	4.1324	-0.0270	.	.	.	.	.	.	.	*
		0V	0.0650	1.9851	-0.0000	2.0169	2.0652	0.9925	4.1302	-0.0287	.	.	.	.	.	.	.	*
		+2V	0.0673	1.9852	0.0025	2.0170	2.0676	0.9922	4.1325	-0.0283	.	.	.	.	.	.	.	*
4	15	-2V	0.0669	1.9848	0.0022	2.0167	2.0673	0.9933	4.1323	-0.0265	.	.	.	.	.	.	.	*
		0V	0.0648	1.9849	-0.0000	2.0167	2.0652	0.9923	4.1302	-0.0280	.	.	.	.	.	.	.	*
		+2V	0.0672	1.9848	0.0026	2.0167	2.0676	0.9920	4.1325	-0.0275	.	.	.	.	.	.	.	*
4	16	-2V	0.0670	1.9850	0.0022	2.0169	2.0673	0.9925	4.1324	-0.0290	.	.	.	.	.	.	.	*
		0V	0.0649	1.9850	-0.0002	2.0169	2.0650	0.9915	4.1301	-0.0305	.	.	.	.	.	.	.	.
		+2V	0.0673	1.9850	0.0025	2.0169	2.0675	0.9911	4.1325	-0.0302	.	.	.	.	.	.	.	.
5	1	-2V	0.0667	1.9804	0.0021	2.0122	2.0672	0.9901	4.1323	-0.0289	.	.	.	.	.	.	.	*
		0V	0.0646	1.9804	-0.0003	2.0122	2.0649	0.9889	4.1300	-0.0307	.	.	.	.	.	.	.	.
		+2V	0.0670	1.9804	0.0024	2.0123	2.0674	0.9883	4.1324	-0.0308	.	.	.	.	.	.	.	.
5	2	-2V	0.0670	1.9803	0.0012	2.0126	2.0663	0.9893	4.1317	-0.0308	.	.	.	.	.	.	.	.
		0V	0.0638	1.9804	-0.0013	2.0127	2.0641	0.9883	4.1297	-0.0324	.	.	.	.	.	.	.	.
		+2V	0.0666	1.9804	0.0018	2.0126	2.0669	0.9879	4.1321	-0.0318	.	.	.	.	.	.	.	.
5	3	-2V	0.0648	1.9803	-0.0000	2.0124	2.0652	0.9850	4.1307	-0.0382	.	.	.	.	.	.	.	.
		0V	0.0636	1.9803	-0.0014	2.0125	2.0640	0.9843	4.1297	-0.0394	.	.	.	.	.	.	.	.
		+2V	0.0659	1.9803	0.0012	2.0124	2.0663	0.9840	4.1315	-0.0387	.	.	.	.	.	.	.	.

ORIGINAL PAGE IS
OF POOR QUALITY

HAC TEST 27
NOV 30 '82

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL .. FLT. S/N 3

1981/11/30 09:27:57 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

INPUT BUFFER TEST (READINGS)

			[...DCR=LEVEL...]		[.....D.C.R.=..PULSE					.=P *=F							
AND	SENSOR		INPUT	A/D TP	INPUT	A/D TP	INPUT	A/D TP	INPUT	A/D TP	1	2	3	4	5	6	7	8
5	4	-2V	0.0657	1.9806	-0.0001	2.0124	2.0651	0.9932	4.1305	-0.0227	.	.	.	.	.	.	.	*
		0V	0.0639	1.9806	-0.0014	2.0126	2.0640	0.9924	4.1295	-0.0241	.	.	.	.	.	.	.	*
		+2V	0.0659	1.9806	0.0010	2.0125	2.0662	0.9918	4.1314	-0.0237	.	.	.	.	.	.	.	*
5	5	-2V	0.0647	1.9808	0.0001	2.0126	2.0653	0.9892	4.1306	-0.0317	.	.	.	.	.	.	.	.
		0V	0.0636	1.9808	-0.0014	2.0127	2.0640	0.9883	4.1295	-0.0328	.	.	.	.	.	.	.	.
		+2V	0.0658	1.9808	0.0011	2.0127	2.0662	0.9878	4.1315	-0.0324	.	.	.	.	.	.	.	.
5	6	-2V	0.0650	1.9803	0.0012	2.0128	2.0663	0.9883	4.1316	-0.0332	.	.	.	.	.	.	.	.
		0V	0.0641	1.9803	-0.0009	2.0129	2.0644	0.9874	4.1298	-0.0348	.	.	.	.	.	.	.	.
		+2V	0.0668	1.9803	0.0021	2.0129	2.0671	0.9869	4.1322	-0.0343	.	.	.	.	.	.	.	.
5	7	-2V	0.0659	1.9805	0.0011	2.0125	2.0662	0.9869	4.1316	-0.0358	.	.	.	.	.	.	.	.
		0V	0.0639	1.9805	-0.0011	2.0126	2.0643	0.9860	4.1298	-0.0374	.	.	.	.	.	.	.	.
		+2V	0.0666	1.9805	0.0019	2.0125	2.0670	0.9855	4.1321	-0.0368	.	.	.	.	.	.	.	.
5	8	-2V	0.0660	1.9801	0.0010	2.0120	2.0662	0.9887	4.1314	-0.0317	.	.	.	.	.	.	.	.
		0V	0.0642	1.9801	-0.0010	2.0121	2.0643	0.9878	4.1296	-0.0333	.	.	.	.	.	.	.	.
		+2V	0.0666	1.9801	0.0018	2.0121	2.0669	0.9873	4.1319	-0.0329	.	.	.	.	.	.	.	.
5	9	-2V	0.0657	1.9801	0.0002	2.0120	2.0655	0.9861	4.1307	-0.0370	.	.	.	.	.	.	.	.
		0V	0.0638	1.9802	-0.0011	2.0121	2.0642	0.9851	4.1296	-0.0386	.	.	.	.	.	.	.	.
		+2V	0.0660	1.9801	0.0013	2.0120	2.0664	0.9846	4.1315	-0.0381	.	.	.	.	.	.	.	.
5	10	-2V	0.0660	1.9800	0.0015	2.0119	2.0666	0.9857	4.1316	-0.0373	.	.	.	.	.	.	.	.
		0V	0.0649	1.9801	-0.0001	2.0120	2.0651	0.9848	4.1301	-0.0388	.	.	.	.	.	.	.	.
		+2V	0.0670	1.9800	0.0022	2.0120	2.0673	0.9844	4.1322	-0.0384	.	.	.	.	.	.	.	.

ORIGINAL PAGE IS
OF POOR QUALITY

HAC
TEST
527
NOV 30 '81

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3

1981/11/30 09:27:57 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

INPUT BUFFER TEST (READINGS)

BAND	SENSOR		[...DCR=LEVEL...] INPUT	A/D TP	[.....D.C.R.=..PULSE .....] INPUT	A/D TP	INPUT	A/D TP	INPUT	A/D TP	.=P *=F 1	2	3	4	5	6	7	8
5	11	-2V	0.0661	1.9803	0.0013	2.0121	2.0665	0.9881	4.1315	-0.0378	.	.	.	.	.	.	.	.
		0V	0.0647	1.9803	-0.0001	2.0121	2.0651	0.9871	4.1301	-0.0344	.	.	.	.	.	.	.	.
		+2V	0.0668	1.9804	0.0021	2.0121	2.0672	0.9867	4.1322	-0.0340	.	.	.	.	.	.	.	.
5	12	-2V	0.0664	1.9805	0.0014	2.0125	2.0665	0.9869	4.1317	-0.0357	.	.	.	.	.	.	.	.
		0V	0.0648	1.9806	-0.0003	2.0125	2.0649	0.9859	4.1300	-0.0372	.	.	.	.	.	.	.	.
		+2V	0.0669	1.9806	0.0021	2.0126	2.0672	0.9855	4.1322	-0.0369	.	.	.	.	.	.	.	.
5	13	-2V	0.0660	1.9800	0.0013	2.0120	2.0665	0.9861	4.1316	-0.0367	.	.	.	.	.	.	.	.
		0V	0.0645	1.9801	-0.0004	2.0121	2.0649	0.9871	4.1300	-0.0382	.	.	.	.	.	.	.	.
		+2V	0.0667	1.9800	0.0020	2.0121	2.0671	0.9847	4.1322	-0.0378	.	.	.	.	.	.	.	.
5	14	-2V	0.0663	1.9799	0.0013	2.0118	2.0665	0.9867	4.1315	-0.0363	.	.	.	.	.	.	.	.
		0V	0.0649	1.9799	-0.0001	2.0118	2.0651	0.9857	4.1302	-0.0368	.	.	.	.	.	.	.	.
		+2V	0.0670	1.9799	0.0022	2.0118	2.0673	0.9853	4.1322	-0.0364	.	.	.	.	.	.	.	.
5	15	-2V	0.0659	1.9803	0.0011	2.0122	2.0663	0.9871	4.1313	-0.0346	.	.	.	.	.	.	.	.
		0V	0.0648	1.9803	-0.0001	2.0122	2.0651	0.9862	4.1302	-0.0361	.	.	.	.	.	.	.	.
		+2V	0.0668	1.9804	0.0021	2.0123	2.0672	0.9858	4.1321	-0.0356	.	.	.	.	.	.	.	.
5	16	-2V	0.0662	1.9807	0.0009	2.0127	2.0661	0.9866	4.1312	-0.0361	.	.	.	.	.	.	.	.
		0V	0.0649	1.9807	-0.0001	2.0127	2.0651	0.9856	4.1301	-0.0375	.	.	.	.	.	.	.	.
		+2V	0.0667	1.9807	0.0019	2.0127	2.0670	0.9853	4.1320	-0.0370	.	.	.	.	.	.	.	.
6	1	-2V	0.0657	1.9850	0.0009	2.0170	2.0661	0.9922	4.1312	-0.0295	.	.	.	.	.	.	.	*
		0V	0.0646	1.9850	-0.0003	2.0170	2.0650	0.9912	4.1300	-0.0311	.	.	.	.	.	.	.	.
		+2V	0.0666	1.9846	0.0019	2.0167	2.0670	0.9905	4.1320	-0.0310	.	.	.	.	.	.	.	.

ORIGINAL PAGE IS
OF POOR QUALITY

HAC
TFST
S27
NOV 30 '82

1981/11/30 09:27:57 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

INPUT BUFFER TEST (READINGS)

AND	SENSOR		[...DCR-LEVEL...] INPUT	A/D TP	[.....D.C.R.+..PULSE INPUT	A/D TP	INPUT	A/D TP	INPUT	A/D TP	.=P 1	2	3	4	5	6	7	8	X=F
6	2	-2V	0.0658	1.9850	0.0009	2.0170	2.0661	0.9922	4.1312	-0.0294	.	.	.	.	.	.	.	.	X
		0V	0.0647	1.9851	-0.0003	2.0171	2.0649	0.9912	4.1301	-0.0309	.	.	.	.	.	.	.	.	.
		+2V	0.0667	1.9847	0.0019	2.0169	2.0670	0.9906	4.1320	-0.0307	.	.	.	.	.	.	.	.	.
6	3	-2V	0.0657	1.9849	0.0010	2.0169	2.0662	0.9913	4.1313	-0.0312	.	.	.	.	.	.	.	.	.
		0V	0.0646	1.9849	-0.0003	2.0169	2.0650	0.9903	4.1301	-0.0328	.	.	.	.	.	.	.	.	.
		+2V	0.0666	1.9846	0.0019	2.0167	2.0670	0.9897	4.1320	-0.0326	.	.	.	.	.	.	.	.	.
6	4	-2V	0.0658	1.9847	0.0007	2.0167	2.0659	0.9920	4.1310	-0.0292	.	.	.	.	.	.	.	.	X
		0V	0.0649	1.9848	-0.0002	2.0168	2.0650	0.9911	4.1301	-0.0305	.	.	.	.	.	.	.	.	.
		+2V	0.0667	1.9844	0.0018	2.0166	2.0669	0.9906	4.1319	-0.0303	.	.	.	.	.	.	.	.	.
7	1	-2V	0.0655	1.9838	0.0007	2.0155	2.0659	0.9920	4.1310	-0.0287	.	.	.	.	.	.	.	.	X
		0V	0.0646	1.9838	-0.0002	2.0156	2.0650	0.9909	4.1300	-0.0303	.	.	.	.	.	.	.	.	.
		+2V	0.0665	1.9838	0.0018	2.0156	2.0669	0.9905	4.1318	-0.0300	.	.	.	.	.	.	.	.	.
7	2	-2V	0.0656	1.9833	0.0007	2.0152	2.0659	0.9909	4.1311	-0.0304	.	.	.	.	.	.	.	.	.
		0V	0.0641	1.9833	-0.0010	2.0157	2.0643	0.9899	4.1297	-0.0320	.	.	.	.	.	.	.	.	.
		+2V	0.0664	1.9833	0.0016	2.0153	2.0667	0.9895	4.1318	-0.0315	.	.	.	.	.	.	.	.	.
7	3	-2V	0.0656	1.9839	0.0009	2.0157	2.0660	0.9915	4.1313	-0.0297	.	.	.	.	.	.	.	.	X
		0V	0.0641	1.9839	-0.0009	2.0157	2.0645	0.9904	4.1299	-0.0314	.	.	.	.	.	.	.	.	.
		+2V	0.0665	1.9839	0.0018	2.0158	2.0669	0.9901	4.1320	-0.0308	.	.	.	.	.	.	.	.	.
7	4	-2V	0.0656	1.9835	0.0006	2.0153	2.0658	0.9905	4.1308	-0.0311	.	.	.	.	.	.	.	.	.
		0V	0.0643	1.9835	-0.0007	2.0155	2.0646	0.9896	4.1297	-0.0326	.	.	.	.	.	.	.	.	.
		+2V	0.0663	1.9835	0.0016	2.0154	2.0667	0.9892	4.1317	-0.0322	.	.	.	.	.	.	.	.	.

ORIGINAL PAGE IS
OF POOR QUALITY

HAC
TEST
C27

S-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 46
981/11/30 09:27:57 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
INPUT BUFFER TEST (READINGS)

			[...DCR=LEVEL...]		[.....D.C.R.=..PULSE		.....		..-P								..-F							
ND	SENSOR		INPUT	A/D TP	INPUT	A/D TP	INPUT	A/D TP	INPUT	A/D TP	1	2	3	4	5	6	7	8						
7	5	-2V	0.0653	1.9838	0.0006	2.0156	2.0658	0.9902	4.1308	-0.0317	.	.	.	.	.	.	.	.						
		0V	0.0641	1.9838	-0.0007	2.0156	2.0646	0.9893	4.1296	-0.0332	.	.	.	.	.	.	.	.						
		+2V	0.0662	1.9839	0.0016	2.0156	2.0667	0.9889	4.1316	-0.0327	.	.	.	.	.	.	.	.						
7	6	-2V	0.0656	1.9833	0.0010	2.0152	2.0661	0.9905	4.1313	-0.0310	.	.	.	.	.	.	.	.						
		0V	0.0644	1.9833	-0.0006	2.0153	2.0647	0.9895	4.1299	-0.0325	.	.	.	.	.	.	.	.						
		+2V	0.0666	1.9833	0.0019	2.0153	2.0669	0.9892	4.1320	-0.0320	.	.	.	.	.	.	.	.						
7	7	-2V	0.0656	1.9836	0.0008	2.0154	2.0660	0.9906	4.1312	-0.0309	.	.	.	.	.	.	.	.						
		0V	0.0642	1.9836	-0.0007	2.0155	2.0646	0.9897	4.1299	-0.0324	.	.	.	.	.	.	.	.						
		+2V	0.0664	1.9836	0.0018	2.0155	2.0668	0.9893	4.1319	-0.0319	.	.	.	.	.	.	.	.						
7	8	-2V	0.0657	1.9832	0.0010	2.0152	2.0662	0.9901	4.1313	-0.0316	.	.	.	.	.	.	.	.						
		0V	0.0649	1.9832	-0.0002	2.0152	2.0651	0.9892	4.1301	-0.0330	.	.	.	.	.	.	.	.						
		+2V	0.0667	1.9832	0.0019	2.0152	2.0670	0.9888	4.1320	-0.0327	.	.	.	.	.	.	.	.						
7	9	-2V	0.0657	1.9835	0.0010	2.0153	2.0661	0.9913	4.1312	-0.0293	.	.	.	.	.	.	.	*						
		0V	0.0647	1.9835	-0.0002	2.0153	2.0650	0.9903	4.1301	-0.0308	.	.	.	.	.	.	.	.						
		+2V	0.0665	1.9835	0.0018	2.0154	2.0669	0.9899	4.1319	-0.0304	.	.	.	.	.	.	.	.						
7	10	-2V	0.0657	1.9832	0.0010	2.0150	2.0662	0.9902	4.1312	-0.0316	.	.	.	.	.	.	.	.						
		0V	0.0648	1.9833	-0.0001	2.0151	2.0651	0.9892	4.1301	-0.0331	.	.	.	.	.	.	.	.						
		+2V	0.0666	1.9833	0.0019	2.0151	2.0670	0.9888	4.1319	-0.0327	.	.	.	.	.	.	.	.						
7	11	-2V	0.0660	1.9834	0.0013	2.0152	2.0664	0.9918	4.1314	-0.0286	.	.	.	.	.	.	.	*						
		0V	0.0647	1.9835	-0.0001	2.0153	2.0651	0.9908	4.1302	-0.0302	.	.	.	.	.	.	.	.						
		+2V	0.0668	1.9835	0.0021	2.0153	2.0672	0.9904	4.1321	-0.0297	.	.	.	.	.	.	.	*						

HAC TEST S27
NOV 30 '81

S-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 47
981/11/30 09:27:57 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

INPUT BUFFER TEST (READINGS)

			[...DCR=LEVEL...]		[.....D.C.R.=..PULSE .....]					.=P X-P							
ND	SENSOR		INPUT	A/D TP	INPUT	A/D TP	INPUT	A/D TP	INPUT	A/D TP	1	2	3	4	5	6	7	8
7	12	-2V	0.0659	1.9839	0.0008	2.0158	2.0660	0.9902	4.1311	-0.0320	.	.	.	.	.	.	.	.
		0V	0.0647	1.9838	-0.0004	2.0159	2.0649	0.9893	4.1300	-0.0333	.	.	.	.	.	.	.	.
		+2V	0.0665	1.9839	0.0017	2.0159	2.0668	0.9889	4.1319	-0.0329	.	.	.	.	.	.	.	.
7	13	-2V	0.0659	1.9832	0.0011	2.0153	2.0663	0.9939	4.1315	-0.0259	.	.	.	.	.	.	.	X
		0V	0.0644	1.9832	-0.0004	2.0150	2.0648	0.9926	4.1300	-0.0280	.	.	.	.	.	.	.	X
		+2V	0.0663	1.9832	0.0016	2.0150	2.0667	0.9925	4.1318	-0.0278	.	.	.	.	.	.	.	X
7	14	-2V	0.0657	1.9833	0.0006	2.0151	2.0658	0.9941	4.1310	-0.0239	.	.	.	.	.	.	.	X
		0V	0.0642	1.9834	-0.0009	2.0152	2.0645	0.9932	4.1298	-0.0255	.	.	.	.	.	.	.	X
		+2V	0.0663	1.9833	0.0016	2.0151	2.0667	0.9927	4.1317	-0.0251	.	.	.	.	.	.	.	X
7	15	-2V	0.0654	1.9838	0.0006	2.0155	2.0658	0.9955	4.1311	-0.0214	.	.	.	.	.	X	.	X
		0V	0.0639	1.9837	-0.0010	2.0156	2.0643	0.9946	4.1297	-0.0230	.	.	.	.	.	.	.	X
		+2V	0.0662	1.9838	0.0016	2.0155	2.0667	0.9941	4.1318	-0.0225	.	.	.	.	.	.	.	X
7	16	-2V	0.0656	1.9835	0.0009	2.0154	2.0661	0.9930	4.1312	-0.0261	.	.	.	.	.	.	.	X
		0V	0.0649	1.9835	-0.0002	2.0154	2.0650	0.9921	4.1300	-0.0275	.	.	.	.	.	.	.	X
		+2V	0.0667	1.9836	0.0019	2.0154	2.0670	0.9917	4.1320	-0.0272	.	.	.	.	.	.	.	X

ORIGINAL PAGE IS
OF POOR QUALITY

HAC TEST 527

NOV 30 '81

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 48

1981/11/30 09:27:57 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

INPUT BUFFER TEST (READINGS)

[...DCR=LEVEL...] [.....D.C.R.=..PULSE .....] .=P X-F

BAND	SENSOR	INPUT	A/D TP	INPUT	A/D TP	INPUT	A/D TP	INPUT	A/D TP	1 2 3 4 5 6 7 8

3.5.3.1-2 EXTERNAL DC RESTORE

A/D REFERENCE VOLTAGES

		A/D	1	2	3	4	5	6	7		
		LOW	1.9680	1.9680	1.9680	1.9680	1.9680	1.9650	1.9680		
		DVM	1.9857	1.9926	1.9902	1.9912	1.9866	1.9847	1.9897		
		HIGH	1.9980	1.9980	1.9980	1.9980	1.9980	1.9950	1.9980		
			0.0550 TO 0.0750	1.9650 TO 1.9950	-0.0150 TO 0.0150	1.9700 TO 1.9900	2.0550 TO 2.0850	1.9650 TO 1.9950	4.1250 TO 4.1550	1.9650 TO 1.9950	
1	1	-2V	0.0669	1.9798	0.0024	1.9796	2.0674	1.9780	4.1322	1.9763	. . . . .
		0V	0.0647	1.9799	-0.0001	1.9797	2.0651	1.9780	4.1300	1.9763	. . . . .
		+2V	0.0668	1.9799	0.0022	1.9797	2.0673	1.9781	4.1322	1.9763	. . . . .

TEST PASSED

ORIGINAL PAGE IS OF POOR QUALITY

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27 NOV 30 '81

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 49
1981/11/30 09:42:50 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.15.13.22-1 INPUT BUFFER AC RESPONSE TEST

3.15.13.22-12 GAIN OF 1 KHZ

ACCEPTABLE VALUES ARE 0.95 TO 1.05

BAND	SENSOR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	1.03	1.04	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.04	1.03	1.03	1.03	1.03	1.03	1.04
2	1.03	1.03	1.03	1.02	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
3	1.03	1.03	1.04	1.04	1.04	1.03	1.03	1.03	1.03	1.02	1.03	1.03	1.03	1.03	1.04	1.04
4	1.03	1.03	1.03	1.04	1.03	1.03	1.03	1.04	1.03	1.02	1.03	1.03	1.03	1.03	1.02	1.03
5	1.02	1.02	1.03	1.02	1.03	1.03	1.03	1.02	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
6	1.05*	1.06*	1.05*	1.05*												
7	1.04	1.03	1.03	1.03	1.03	1.04	1.03	1.03	1.02	1.03	1.03	1.04	1.04	1.03	1.02	1.02

HAC TEST S27 NOV 30 '81

TEST FAILED

HAC TEST S27 NOV 30 '81

This test failed due to operator error. Amplitude of sinewave generator was set @ 2.05V P-P instead of 2.0V P-P. See retest passed on pg 59. Pg 11/30/81

HAC TEST S27 NOV 30 '81

ORIGINAL PAGE IS
OF POOR QUALITY

HAC
TEST
527

1981/11/30 09:42:50 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.2-1 INPUT BUFFER AC RESPONSE TEST

3.5.3.2-3 GAIN A (51 KHZ / 1 KHZ)

ACCEPTABLE VALUES ARE 0.95 TO 1.05

BAND	SENSOR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	0.99	0.98	0.98	0.98	0.98	0.99	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
2	0.98	0.98	0.98	0.99	0.98	0.98	0.98	0.98	0.97	0.98	0.98	0.98	0.97	0.97	0.97	0.97
3	0.99	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.97	0.97	0.98	0.98	0.98	0.98
4	0.98	0.97	0.98	0.98	0.98	0.98	0.98	0.97	0.97	0.98	0.97	0.98	0.97	0.97	0.98	0.97
5	0.99	0.99	0.98	0.99	0.98	0.98	0.98	0.99	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
6	0.98	0.97	0.97	0.97												
7	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.96	0.97	0.95	0.98

TEST PASSED

ORIGINAL PAGE IS
OF POOR QUALITY

3.15.3.2-1 INPUT BUFFER AC RESPONSE TEST

3.15.3.2-4 GAIN R (300 KHZ / 1 KHZ)

ACCEPTABLE VALUES ARE 0.50 TO 0.91

BAND	SENSOR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	0.77	0.79	0.79	0.79	0.79	0.77	0.79	0.79	0.76	0.77	0.76	0.76	0.75	0.78	0.77	0.77
2	0.73	0.76	0.77	0.76	0.73	0.75	0.75	0.74	0.73	0.76	0.76	0.75	0.79	0.77	0.78	0.75
3	0.78	0.80	0.79	0.77	0.73	0.74	0.78	0.74	0.69	0.67	0.64	0.65	0.77	0.77	0.78	0.76
4	0.72	0.72	0.72	0.71	0.73	0.72	0.73	0.71	0.70	0.72	0.69	0.69	0.70	0.69	0.73	0.69
5	0.76	0.77	0.77	0.79	0.80	0.77	0.78	0.77	0.77	0.77	0.77	0.77	0.78	0.77	0.79	0.81
6	0.76	0.75	0.76	0.76												
7	0.78	0.78	0.80	0.80	0.77	0.76	0.80	0.77	0.74	0.74	0.75	0.76	0.67	0.78	0.79	0.75

TEST PASSED

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 52
1981/11/30 09:43:21 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

8.5.3.2-1 INPUT BUFFER AC RESPONSE TEST

RAW DATA -- FOR INFORMATION ONLY

FREQUENCY

		1 KHZ			51 KHZ			300 KHZ		
BAND	SENSOR	MAX	MIN	DELTA	MAX	MIN	DELTA	MAX	MIN	DELTA
1	1	196	64	132	190	59	131	174	72	102
1	2	195	62	133	190	59	131	175	70	105
1	3	192	60	132	189	59	130	174	70	104
1	4	191	59	132	189	59	130	174	70	104
1	5	192	60	132	189	59	130	174	70	104
1	6	195	63	132	190	59	131	173	72	101
1	7	194	62	132	189	59	130	174	70	104
1	8	193	61	132	189	59	130	174	70	104
1	9	191	59	132	189	59	130	173	73	100
1	10	194	61	133	189	59	130	174	72	102
1	11	195	63	132	189	59	130	172	72	100
1	12	194	62	132	189	59	130	172	72	100
1	13	191	59	132	189	59	130	172	73	99
1	14	193	61	132	189	59	130	173	70	103
1	15	195	63	132	189	59	130	173	72	101
1	16	194	61	133	189	59	130	173	71	102

ORIGINAL PAGE IS
OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 53
1981/11/30 09:43:21 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
13.55.13.2—1 INPUT BUFFER AC RESPONSE TEST

RW 30 81

RAW DATA -- FOR INFORMATION ONLY

FREQUENCY

		1 KHZ			51 KHZ			300 KHZ		
BAND	SENSOR	MAX	MIN	DELTA	MAX	MIN	DELTA	MAX	MIN	DELTA
2	1	191	59	132	189	59	130	171	74	97
2	2	194	62	132	189	59	130	172	72	100
2	3	194	62	132	189	59	130	173	71	102
2	4	190	59	131	189	59	130	172	72	100
2	5	193	61	132	188	59	129	170	74	96
2	6	195	63	132	189	59	130	172	73	99
2	7	191	59	132	188	59	129	171	72	99
2	8	193	61	132	189	59	130	171	73	98
2	9	194	62	132	187	59	128	170	74	96
2	10	191	59	132	188	59	129	172	72	100
2	11	192	60	132	188	59	129	172	72	100
2	12	195	63	132	189	59	130	172	73	99
2	13	191	59	132	187	59	128	174	70	104
2	14	192	60	132	187	59	128	173	71	102
2	15	194	62	132	187	59	128	173	70	103
2	16	190	58	132	187	59	128	171	72	99

ORIGINAL PAGE IS
OF POOR QUALITY

1981/11/30 09:43:21 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.2-1 INPUT BUFFER AC RESPONSE TEST

RAW DATA -- FOR INFORMATION ONLY

FREQUENCY

		1 KHZ			51 KHZ			300 KHZ		
BAND	SENSOR	MAX	MIN	DELTA	MAX	MIN	DELTA	MAX	MIN	DELTA
3	1	195	63	132	190	59	131	175	72	103
3	2	194	62	132	189	59	130	175	70	105
3	3	192	59	133	189	59	130	175	70	105
3	4	196	63	133	189	59	130	174	72	102
3	5	192	59	133	189	59	130	171	74	97
3	6	194	62	132	189	59	130	172	74	98
3	7	194	62	132	189	59	130	175	72	103
3	8	192	60	132	189	59	130	172	74	98
3	9	195	63	132	189	59	130	168	77	91
3	10	190	59	131	188	59	129	166	78	88
3	11	195	63	132	188	60	128	165	80	85
3	12	191	59	132	188	60	128	165	79	86
3	13	194	62	132	189	59	130	173	72	101
3	14	193	61	132	189	59	130	174	72	102
3	15	194	61	133	189	59	130	174	70	104
3	16	194	61	133	189	59	130	173	72	101

ORIGINAL PAGE IS
OF POOR QUALITY

HS-206 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 50
1981/11/30 09:43:21 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
4.5.3.2-1 INPUT BUFFER AC RESPONSE TEST

HAC TEST 527

NOV 30 '81

RAW DATA -- FOR INFORMATION ONLY

FREQUENCY

		1 KHZ			51 KHZ			300 KHZ		
BAND	SENSOR	MAX	MIN	DELTA	MAX	MIN	DELTA	MAX	MIN	DELTA
4	1	194	62	132	190	60	130	170	75	95
4	2	193	61	132	187	59	128	170	75	95
4	3	194	62	132	189	60	129	170	75	95
4	4	194	61	133	189	59	130	170	75	95
4	5	194	62	132	189	59	130	170	74	96
4	6	193	61	132	189	59	130	170	75	95
4	7	194	62	132	189	59	130	171	74	97
4	8	192	59	133	189	60	129	170	75	95
4	9	195	63	132	188	60	128	169	76	93
4	10	190	59	131	188	59	129	169	75	94
4	11	194	62	132	188	60	128	168	77	91
4	12	193	61	132	189	60	129	168	77	91
4	13	193	61	132	188	60	128	169	76	93
4	14	195	63	132	188	60	128	168	77	91
4	15	190	59	131	187	59	128	170	75	95
4	16	194	62	132	188	60	128	168	77	91

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 56
1981/11/30 09:43:21 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
4.5.4.4.2-1 INPUT BUFFER AC RESPONSE TEST

RAW DATA -- FOR INFORMATION ONLY

FREQUENCY

		1 KHZ			51 KHZ			300 KHZ		
BAND	SENSOR	MAX	MIN	DELTA	MAX	MIN	DELTA	MAX	MIN	DELTA
5	1	193	62	131	189	59	130	173	73	100
5	2	190	59	131	189	59	130	173	72	101
5	3	195	63	132	189	60	129	175	73	102
5	4	191	61	130	188	59	129	173	70	103
5	5	191	59	132	188	59	129	177	71	106
5	6	195	63	132	189	59	130	173	72	101
5	7	192	60	132	189	59	130	174	71	103
5	8	192	61	131	189	59	130	173	72	101
5	9	195	63	132	189	59	130	173	71	102
5	10	193	61	132	189	59	130	173	72	101
5	11	191	59	132	188	59	129	173	71	102
5	12	194	62	132	189	59	130	173	72	101
5	13	194	62	132	189	59	130	175	72	103
5	14	191	59	132	189	60	129	174	72	102
5	15	193	61	132	189	59	130	176	72	104
5	16	195	63	132	189	59	130	178	71	107

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 57
1981/11/30 09:43:21 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.2-1 INPUT BUFFER AC RESPONSE TEST

RAW DATA -- FOR INFORMATION ONLY

FREQUENCY

		1 KHZ			51 KHZ			300 KHZ		
BAND	SENSOR	MAX	MIN	DELTA	MAX	MIN	DELTA	MAX	MIN	DELTA
6	1	196	61	135	192	60	132	176	74	102
6	2	197	61	136	192	60	132	176	74	102
6	3	198	63	135	192	61	131	176	73	103
6	4	196	61	135	192	61	131	175	73	102

HAC TEST 527
NOV 30 '81

ORIGINAL PAGE IS
OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 58
1981/11/30 09:43:21 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.3.2-1 INPUT BUFFER AC RESPONSE TEST

HAC TEST 527
11 30 '81

RAW DATA -- FOR INFORMATION ONLY

FREQUENCY

		1 KHZ			51 KHZ			300 KHZ		
BAND	SENSOR	MAX	MIN	DELTA	MAX	MIN	DELTA	MAX	MIN	DELTA
7	1	196	63	133	189	59	130	175	71	104
7	2	193	61	132	189	59	130	174	71	103
7	3	191	59	132	189	59	130	177	71	106
7	4	193	61	132	189	59	130	175	70	105
7	5	195	63	132	189	59	130	174	72	102
7	6	194	61	133	189	59	130	173	72	101
7	7	191	59	132	189	59	130	175	70	105
7	8	193	61	132	189	59	130	174	72	102
7	9	194	63	131	188	59	129	171	74	97
7	10	194	62	132	189	59	130	171	73	98
7	11	191	59	132	189	59	130	171	72	99
7	12	193	60	133	189	59	130	173	72	101
7	13	194	61	133	187	59	128	166	77	89
7	14	194	62	132	187	59	128	173	70	103
7	15	192	61	131	187	59	128	173	70	103
7	16	190	59	131	188	59	129	171	73	98

ORIGINAL PAGE IS
OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 39
1981/11/30 09:51:58 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.3.2-1 INPUT BUFFER AC RESPONSE TEST

3.5.3.2-2 GAIN OF 1 KHZ

ACCEPTABLE VALUES ARE 0.95 TO 1.05

BAND	SENSOR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	1.00	1.00	1.00	1.00	1.00	1.00	0.99	1.00	1.00	1.00	1.00	1.01	1.00	1.00	1.00	1.00
2	1.00	0.99	1.00	1.00	1.00	0.99	1.00	0.99	0.99	0.99	0.99	1.00	1.00	1.00	1.00	0.99
3	1.00	1.00	1.00	0.99	1.00	1.00	1.00	1.00	0.99	1.00	0.99	0.99	1.00	1.00	0.99	1.00
4	1.00	1.00	1.00	1.00	1.00	1.00	1.01	0.99	1.00	0.99	1.00	1.00	0.99	0.99	0.99	0.99
5	0.99	0.99	0.99	0.98	1.00	1.00	0.99	1.00	1.00	1.00	0.99	0.99	1.00	1.00	0.99	0.99
6	1.02	1.02	1.02	1.02												
7	1.00	0.99	1.00	0.99	1.00	0.99	0.99	1.00	1.00	1.00	0.99	0.99	0.99	0.99	0.98	0.99

TEST PASSED

See data for Band 1 sensor 7 to verify that FR # F4256 was a tester failure not a unit failure. By 11/30/81

NOTE. Ref # F.R. # F4256

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27 NOV 30 '81

HAC TEST S27 NOV 30 '81

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 60
1981/11/30 09:51:58 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.3.2-3 INPUT BUFFER AC RESPONSE TEST

HAC TEST 527
NOV 30 '81

3.5.3.2-3 GAIN A (51 KHZ / 1 KHZ)

ACCEPTABLE VALUES ARE 0.95 TO 1.05

BAND	SENSOR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	0.99	1.00	1.00	1.00	0.99	1.00	1.00	0.99	0.99	1.00	0.99	0.99	0.98	0.99	0.99	0.99
2	0.99	1.00	0.99	0.99	0.99	1.00	0.99	0.99	1.00	1.00	1.00	0.99	0.98	0.98	0.98	0.99
3	0.99	1.00	1.00	1.00	0.98	0.99	0.99	0.98	0.99	0.98	0.99	0.99	0.98	0.98	1.00	0.98
4	0.98	0.99	0.98	0.99	0.98	0.98	0.98	0.99	0.98	0.99	0.98	0.98	0.99	0.99	0.99	0.99
5	1.00	1.00	1.00	1.00	0.99	0.99	1.00	0.98	0.98	0.99	0.99	0.99	0.98	0.98	0.99	0.99
6	0.98	0.98	0.98	0.98												
7	1.00	1.00	0.99	1.00	0.99	0.99	1.00	0.98	0.98	0.98	1.00	0.99	0.98	1.00	1.00	0.99

TEST PASSED

ORIGINAL PAGE IS
OF POOR QUALITY

ORIGINAL PAGE IS
OF POOR QUALITY

HAC TEST 127

NOV 30 '81

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE A1
1981/11/30 09:51:58 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.3.2-3 INPUT BUFFER AC RESPONSE TEST

3.5.3.2-4 GAIN B (300 KHZ / 1 KHZ)

ACCEPTABLE VALUES ARE 0.50 TO 0.91

BAND	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
							S	F	N	S	O	R				
1	0.80	0.81	0.80	0.80	0.81	0.78	0.82	0.80	0.77	0.78	0.77	0.77	0.77	0.79	0.78	0.79
2	0.76	0.78	0.79	0.77	0.75	0.77	0.77	0.76	0.76	0.78	0.78	0.77	0.80	0.79	0.80	0.77
3	0.80	0.81	0.80	0.80	0.75	0.76	0.79	0.76	0.72	0.69	0.66	0.67	0.78	0.79	0.81	0.78
4	0.73	0.74	0.73	0.74	0.74	0.73	0.75	0.74	0.72	0.73	0.70	0.70	0.72	0.71	0.74	0.71
5	0.78	0.79	0.79	0.80	0.81	0.78	0.80	0.78	0.79	0.78	0.80	0.79	0.79	0.79	0.80	0.83
6	0.76	0.76	0.79	0.77												
7	0.80	0.80	0.81	0.81	0.80	0.79	0.82	0.79	0.76	0.76	0.77	0.78	0.69	0.80	0.81	0.76

TEST PASSED

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 62
1981/11/30 09:52:29 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.3.2-1 INPUT BUFFER AC RESPONSE TEST

RAW DATA -- FOR INFORMATION ONLY

FREQUENCY

		1 KHZ			51 KHZ			300 KHZ		
BAND	SENSOR	MAX	MIN	DELTA	MAX	MIN	DELTA	MAX	MIN	DELTA
1	1	183	55	128	187	60	127	174	72	102
1	2	183	55	128	187	59	128	175	71	104
1	3	183	55	128	187	59	128	174	72	102
1	4	183	55	128	187	59	128	174	71	103
1	5	184	56	128	186	59	127	174	70	104
1	6	185	57	128	187	59	128	173	73	100
1	7	185	58	127	186	59	127	174	70	104
1	8	186	58	128	186	59	127	174	72	102
1	9	186	58	128	186	59	127	172	73	99
1	10	186	58	128	187	59	128	173	73	100
1	11	184	56	128	186	59	127	172	73	99
1	12	183	54	129	187	59	128	172	73	99
1	13	183	55	128	186	60	126	172	74	98
1	14	185	57	128	186	59	127	173	72	101
1	15	186	58	128	186	59	127	173	73	100
1	16	185	57	128	186	59	127	173	72	101

ORIGINAL PAGE IS
OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 63
1981/11/30 09:52:29 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.3.4.12-1 INPUT BUFFER AC RESPONSE TEST

HAC TEST 327
10/30/81

RAW DATA -- FOR INFORMATION ONLY

FREQUENCY

		1 KHZ			51 KHZ			300 KHZ		
BAND	SENSOR	MAX	MIN	DELTA	MAX	MIN	DELTA	MAX	MIN	DELTA
2	1	183	55	128	187	60	127	171	74	97
2	2	182	55	127	186	59	127	172	73	99
2	3	185	57	126	186	59	127	173	72	101
2	4	185	57	128	184	59	127	172	73	99
2	5	183	55	128	186	59	127	170	74	96
2	6	182	55	127	186	59	127	171	73	98
2	7	185	57	128	186	59	127	171	73	98
2	8	185	58	127	186	60	126	171	74	97
2	9	182	55	127	186	59	127	170	74	96
2	10	183	56	127	186	59	127	172	73	99
2	11	185	58	127	186	59	127	172	73	99
2	12	183	55	128	186	59	127	172	73	99
2	13	183	55	128	185	59	126	173	71	102
2	14	185	57	128	185	59	126	173	72	101
2	15	182	54	128	185	59	126	173	70	103
2	16	183	56	127	185	59	126	171	73	98

ORIGINAL PAGE IS
OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL .. FLT. S/N 3 PAGE 64
1981/11/30 09:52:29 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.3.2-1 INPUT BUFFER AC RESPONSE TEST

RAW DATA -- FOR INFORMATION ONLY

FREQUENCY

		1 KHZ			51 KHZ			300 KHZ		
BAND	SENSOR	MAX	MIN	DELTA	MAX	MIN	DELTA	MAX	MIN	DELTA
3	1	186	58	128	187	60	127	175	73	102
3	2	183	55	128	187	59	128	175	71	104
3	3	186	58	128	187	59	128	175	72	103
3	4	184	57	127	186	59	127	174	73	101
3	5	184	56	128	186	60	126	171	75	96
3	6	186	58	128	186	59	127	171	74	97
3	7	183	55	128	186	59	127	174	73	101
3	8	186	58	128	186	60	126	171	74	97
3	9	182	55	127	186	60	126	168	77	91
3	10	186	58	128	186	60	126	166	78	88
3	11	182	55	127	186	60	126	165	81	84
3	12	185	58	127	186	60	126	165	80	85
3	13	183	55	128	186	60	126	173	73	100
3	14	186	58	128	186	60	126	174	73	101
3	15	182	55	127	186	59	127	174	71	103
3	16	186	58	128	186	60	126	173	73	100

HAC TEST 527
NOV 30 '81

ORIGINAL PAGE IS
OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL .. FLT. S/N 3 PAGE 65
1981/11/30 09:52:29 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.3.2-1 INPUT BUFFER AC RESPONSE TEST

HAC TEST 527

NOV 30 '81

RAW DATA -- FOR INFORMATION ONLY

FREQUENCY

		1 KHZ			51 KHZ			300 KHZ		
BAND	SENSOR	MAX	MIN	DELTA	MAX	MIN	DELTA	MAX	MIN	DELTA
4	1	184	56	128	187	61	126	170	76	94
4	2	186	58	128	186	59	127	170	75	95
4	3	183	55	128	186	60	126	170	76	94
4	4	186	58	128	186	59	127	170	75	95
4	5	183	55	128	186	60	126	170	75	95
4	6	186	58	128	186	60	126	170	76	94
4	7	185	56	129	186	60	126	171	74	97
4	8	183	56	127	186	60	126	170	76	94
4	9	186	58	128	186	60	126	169	77	92
4	10	182	55	127	186	60	126	169	76	93
4	11	185	57	128	186	60	126	168	78	90
4	12	185	57	128	186	60	126	168	78	90
4	13	182	55	127	186	60	126	169	77	92
4	14	185	58	127	186	60	126	168	78	90
4	15	183	56	127	186	60	126	170	76	94
4	16	183	56	127	186	60	126	168	78	90

ORIGINAL PAGE IS
OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 66
1981/11/30 09:52:29 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
[illegible] INPUT BUFFER AC RESPONSE TEST

RAW DATA -- FOR INFORMATION ONLY

FREQUENCY

		1 KHZ			51 KHZ			300 KHZ		
BAND	SENSOR	MAX	MIN	DELTA	MAX	MIN	DELTA	MAX	MIN	DELTA
5	1	185	58	127	186	59	127	173	74	99
5	2	183	56	127	186	59	127	173	73	100
5	3	184	57	127	187	60	127	174	74	100
5	4	184	58	126	185	59	126	173	72	101
5	5	184	56	128	186	59	127	176	72	104
5	6	183	55	128	186	59	127	173	73	100
5	7	185	58	127	186	59	127	174	72	102
5	8	185	57	128	186	60	126	173	73	100
5	9	183	55	128	186	60	126	173	72	101
5	10	185	57	128	187	60	127	173	73	100
5	11	185	58	127	186	60	126	173	72	101
5	12	184	57	127	186	60	126	173	73	100
5	13	183	55	128	186	60	126	174	73	101
5	14	185	57	128	186	60	126	174	73	101
5	15	185	58	127	186	60	126	175	73	102
5	16	184	57	127	186	60	126	178	72	106

ORIGINAL PAGE IS
OF POOR QUALITY

HAC
NOV 30 '81

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 67
1981/11/30 09:52:29 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
[illegible] INPUT BUFFER AC RESPONSE TEST

HAC TEST S27

NOV 30 '81

RAW DATA -- FOR INFORMATION ONLY

FREQUENCY

		1 KHZ			51 KHZ			300 KHZ		
BAND	SENSOR	MAX	MIN	DELTA	MAX	MIN	DELTA	MAX	MIN	DELTA
6	1	186	55	131	189	61	128	175	75	100
6	2	189	58	131	189	61	128	175	75	100
6	3	187	57	130	189	61	128	176	73	103
6	4	187	56	131	189	61	128	175	74	101

ORIGINAL PAGE IS OF POOR QUALITY

14.5.14.2-1 INPUT BUFFER AC RESPONSE, TEST

HAC TEST 527

NOV 30 '81

RAW DATA -- FOR INFORMATION ONLY

FREQUENCY

		1 KHZ			51 KHZ			300 KHZ		
BAND	SENSOR	MAX	MIN	DELTA	MAX	MIN	DELTA	MAX	MIN	DELTA
7	1	186	58	128	187	59	128	174	72	102
7	2	185	58	127	186	59	127	174	72	102
7	3	184	56	128	186	59	127	176	72	104
7	4	182	55	127	186	59	127	174	71	103
7	5	184	56	128	186	59	127	174	72	102
7	6	185	58	127	186	60	126	173	73	100
7	7	185	58	127	186	59	127	175	71	104
7	8	185	57	128	186	60	126	174	73	101
7	9	183	55	128	186	60	126	171	74	97
7	10	183	55	128	186	60	126	171	74	97
7	11	183	56	127	186	59	127	171	73	98
7	12	185	58	127	186	60	126	173	74	99
7	13	185	58	127	185	60	125	166	78	88
7	14	184	57	127	186	59	127	173	72	101
7	15	182	56	126	185	59	126	173	71	102
7	16	182	55	127	186	60	126	171	74	97

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL .. FLT. S/N 3 PAGE 69
1981/11/30 10:02:54 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
4.5.4.3-1 INPUT BUFFER DROOP TEST

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27 NOV 30 '81

DROOP RATE (MV/SEC)

ACCEPTABLE VALUE FOR ROOM AND COLD TEMPERATURE IS -3.3 TO 3.3, HOT TEMPERATURE IS -200 TO 200

BAND	SENSOR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	0.85	0.66	4.11 **	0.67	1.39	1.11	1.19	0.77	1.10	1.47	1.23	1.14	0.53	0.56	0.69	0.96
2	0.86	1.12	0.95	1.14	0.87	0.60	1.08	1.01	0.67	0.72	0.35	0.45	0.52	0.30	1.18	0.79
3	0.57	0.80	0.52	0.63	0.64	0.68	0.61	0.58	0.47	0.94	0.83	0.98	0.80	0.53	2.51	1.84
4	0.26	0.63	0.77	0.70	1.18	0.59	0.87	0.77	0.81	0.82	0.40	0.38	0.81	0.46	0.78	0.57
5	0.63	2.61	0.79	1.03	0.46	4.90 **	0.93	1.08	0.40	0.63	0.67	0.65	1.09	0.68	1.14	0.96
6	0.70	1.24	0.65	1.34												
7	0.43	1.29	0.61	0.90	0.64	1.08	0.88	1.30	0.68	0.49	0.55	1.03	2.43	0.56	0.81	0.77

MAXIMUM IS . 4.90 AT BAND 5 SENSOR 6
MINIMUM IS 0.26 AT BAND 4 SENSOR 1
TEST FAILED

Band 1 Sensor 3 and Band 5 Sensor 6 failed. See N.R. #F4255 By 11/30/81
See QC H.R. Sheet #10 Line #14

HAC TEST S27 NOV 30 '81

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 70
1981/11/30 10:03:06 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.3.3-1 INPUT BUFFER DROOP TEST

HAC TEST S27

NV 30 '81

THE FOLLOWING DATA ARE FOR INFORMATION ONLY

ORIGINAL PAGE IS OF POOR QUALITY

DVM READINGS (VOLT)

A/D REFERENCE VOLTAGES

A/D	1	2	3	4	5	6	7
LOW	1.9680	1.9680	1.9680	1.9680	1.9680	1.9650	1.9680
DVM	1.9858	1.9927	1.9903	1.9912	1.9865	1.9855	1.9898
HIGH	1.9980	1.9980	1.9980	1.9980	1.9980	1.9950	1.9980

BAND 1 SENSOR

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
DCR0	1.9840	1.9829	1.9998	1.9834	1.9866	1.9852	1.9856	1.9833	1.9848	1.9867	1.9857	1.9849	1.9816	1.9824	1.9831	1.9845
DCR1	1.9798	1.9796	1.9793	1.9801	1.9797	1.9796	1.9797	1.9795	1.9792	1.9794	1.9796	1.9792	1.9790	1.9796	1.9797	1.9796

BAND 2 SENSOR

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
DCR0	1.9907	1.9922	1.9908	1.9925	1.9911	1.9891	1.9916	1.9917	1.9895	1.9900	1.9880	1.9884	1.9892	1.9881	1.9921	1.9903
DCR1	1.9864	1.9866	1.9860	1.9867	1.9868	1.9861	1.9862	1.9867	1.9861	1.9864	1.9863	1.9862	1.9866	1.9865	1.9862	1.9864

ORIGINAL PAGE IS
OF POOR QUALITY

HAC
TEST
527

NOV 30 '81

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 71
1981/11/30 10:03:06 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.3.3-1 INPUT BUFFER PROOF TEST

BAND 3 SENSOR

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
DCR0	1.9870	1.9865	1.9874	1.9866	1.9859	1.9882	1.9881	1.9945	1.9877	1.9871	1.9873	1.9869	1.9885	1.9890	1.9843	1.9889
DCR1	1.9841	1.9839	1.9842	1.9835	1.9836	1.9840	1.9841	1.9840	1.9837	1.9839	1.9839	1.9840	1.9838	1.9841	1.9835	1.9837

BAND 4 SENSOR

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
DCR0	1.9861	1.9889	1.9914	1.9894	1.9889	1.9867	1.9889	1.9886	1.9879	1.9885	1.9883	1.9890	1.9891	1.9848	1.9873	1.9878
DCR1	1.9848	1.9851	1.9855	1.9850	1.9849	1.9847	1.9849	1.9847	1.9848	1.9850	1.9853	1.9851	1.9850	1.9849	1.9850	1.9849

BAND 5 SENSOR

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
DCR0	1.9834	1.9841	1.9830	1.9850	1.9821	1.9835	1.9854	1.9859	1.9933	1.9857	2.0047	1.9854	1.9830	1.9837	1.9842	1.9854
DCR1	1.9803	1.9802	1.9807	1.9804	1.9801	1.9802	1.9799	1.9802	1.9802	1.9805	1.9802	1.9800	1.9799	1.9804	1.9798	1.9806

BAND 6 SENSOR

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
DCR0	1.9894	1.9892	1.9977	1.9920												
DCR1	1.9859	1.9859	1.9860	1.9853												

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 72
1981/11/30 10:03:06 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.3.3-1 INPUT BUFFER DROOP TEST

BAND 7

	SENSOR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
DCR0	1.9858	1.9896	1.9868	1.9879	1.9869	1.9886	1.9879	1.9897	1.9868	1.9855	1.9862	1.9889	1.9953	1.9860	1.9877	1.9873
DCR1	1.9837	1.9832	1.9838	1.9834	1.9837	1.9832	1.9835	1.9832	1.9834	1.9831	1.9834	1.9837	1.9831	1.9832	1.9836	1.9834

ORIGINAL PAGE IS
OF POOR QUALITY

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 73
1981/11/30 10:03:47 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.3.4-1 DCR TIME CONSTANT (MSEC)

ACCEPTABLE VALUES ARE 4.5 TO 8.5 MSEC

BAND	SENSOR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	6.0	5.9	6.4	6.3	6.1	6.2	6.2	6.4	5.9	6.0	6.1	6.0	5.8	5.7	6.0	6.1
2	6.1	6.2	5.9	6.0	6.1	6.2	6.1	6.2	5.9	6.0	6.0	6.0	6.1	6.2	6.1	6.1
3	6.1	6.2	5.9	5.9	6.0	6.0	6.1	6.2	6.1	6.0	5.9	6.1	6.1	6.1	6.0	5.9
4	5.9	5.8	6.0	6.1	6.2	6.1	5.9	6.0	6.1	6.1	6.0	5.9	5.8	5.8	5.9	6.1
5	6.1	6.2	6.1	5.9	6.0	6.0	6.1	6.2	6.0	6.1	6.2	5.9	5.8	5.7	6.0	6.1
6	6.1	6.2	6.2	6.1												
7	5.9	6.1	6.3	6.2	6.1	6.0	6.1	6.0	6.2	5.9	6.0	6.0	6.1	6.2	5.9	6.0

CHECK ONE: TEST PASSED X.. TEST FAILED ....

See data for Band 1 sensor 7 to verify FR# 4256 was a tester failure no a unit failure. Ry 11/25/81

RAC TEST 527 NO. 30 '81

ORIGINAL PAGE IS
OF POOR QUALITY

Appendix A

Multiplexer Performance Data

A/D THRESHOLD TEST DATA
Band 1

Section 4A

REVIEWED PAGES 74-788
12/1/81

HAC TEST 527

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 74
1981/11/30 10:07:26 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.3.5-8 A/D THRESHOLD TEST (BAND= 1, SENSOR=1
SUMMARY

CHECK 1) RMS ERROR, 2) THRESHOLD INCREMENT(+/- 0.0 <= THRH INC <= 31.2)
THE REMAINING DATA ARE FOR INFORMATION ONLY

BEST FIT STRAIGHT LINE IS: Y =15.868X -46.8MV

DEVIATION OF SLOPE FROM IDEAL IS: 1.142%
OFFSET IS:-46.8MV
COEFFICIENT OF DETERMINATION IS: R**2= .99998190
ANALOG INPUT DURING DC RESTORE IS:64.4MV

RMS ERROR = 4.878MV REQMT: RMS ERROR <= 7.812MV

THRESHOLD INCREMENT MEASUREMENT

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
27.6MV	243	15.868MV	0.8MV	32	5.743MV

LOWER LIMIT AT OUTPUT LEVELS RATIO - 1 : 1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
1.6MV	244	-0.021MV	-1.1MV	251	.705MV

UPPER LIMIT AT OUTPUT LEVELS RATIO - 1 : 1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
1.1MV	255	-0.013MV	-1.6MV	177	.711MV

TEST PASSED

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL .. FLT. S/N 3 PAGE 75 .
1981/11/30 10:07:40 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
[illegible] ON/OD THRESHOLD TEST (GRAND= [illegible] SEQUENCE= [illegible]) NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
THE FOLLOWING DATA ARE FOR INFORMATION ONLY								
1	1111 1111	-24.375	-36.1	-0.1	-0.9		-31.0	-5.1
2	1111 1110	-8.750	-25.3	0.5	0.6	10.7	-15.2	-10.2
3	1111 1101	6.875	-0.5	-0.0	0.8	24.8	0.6	-1.1
4	1111 1100	22.500	13.2	-0.8	-0.8	13.7	16.4	-3.2
5	1111 1011	38.125	30.0	-0.8	-0.8	16.8	32.2	-2.2
6	1111 1010	53.750	42.6	0.6	0.0	12.6	48.0	-5.5
7	1111 1001	69.375	66.0	0.7	0.6	23.4	63.8	2.1
8	1111 1000	85.000	71.8	-0.7	0.0	5.8	79.7	-7.8
9	1111 0111	100.625	91.5	-0.8	-0.8	19.7	95.5	-4.0
10	1111 0110	116.250	105.1	-0.0	-0.7	13.6	111.3	-6.2
11	1111 0101	131.875	127.3	0.7	0.7	22.2	127.1	0.2
12	1111 0100	147.500	143.1	0.8	0.8	15.8	142.9	0.2
13	1111 0011	163.125	157.3	-0.7	0.1	14.2	158.7	-1.3
14	1111 0010	178.750	173.4	-0.6	-0.5	16.1	174.5	-1.0
15	1111 0001	194.375	193.5	0.6	-0.1	20.0	190.3	3.2
16	1111 0000	210.000	201.0	0.6	0.8	7.5	206.1	-5.1
17	1110 1111	225.625	218.5	0.0	0.8	17.4	221.9	-3.4
18	1110 1110	241.250	230.7	-0.6	-0.7	12.2	237.7	-7.0
19	1110 1101	256.875	255.5	-0.8	-0.7	24.9	253.5	2.1
20	1110 1100	272.500	270.5	0.7	0.0	14.9	269.3	1.2
21	1110 1011	288.125	284.6	0.7	0.6	14.1	285.1	-0.5
22	1110 1010	303.750	299.1	-0.8	-0.1	14.5	300.9	-1.8
23	1110 1001	319.375	321.8	-0.6	-0.6	22.7	316.7	5.1
24	1110 1000	335.000	329.9	-0.1	-0.7	8.1	332.5	-2.6
25	1110 0111	350.625	346.0	0.5	0.7	16.1	348.3	-2.3

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 76

1981/11/30 10:07:40 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3 , SENSOR=1)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
26	1110 0110	366.250	359.7	0.5	0.6	13.7	364.1	-4.4
27	1110 0101	381.875	383.2	-0.8	-0.0	23.5	379.9	3.3
28	1110 0100	397.500	402.2	-0.9	-0.8	18.9	395.7	6.4
29	1110 0011	413.125	411.8	0.8	-0.0	9.6	411.5	0.3
30	1110 0010	428.750	428.0	0.6	0.5	16.2	427.3	0.7
31	1110 0001	444.375	448.1	-0.1	0.7	20.1	443.1	5.0
32	1110 0000	460.000	448.9	-0.7	-0.7	0.8	458.9	-10.0
33	1101 1111	475.625	474.0	-0.8	-0.8	25.1	474.7	-0.8
34	1101 1110	491.250	483.8	0.5	-0.1	9.8	490.5	-6.7
35	1101 1101	506.875	509.1	0.7	0.8	25.3	506.3	2.8
36	1101 1100	522.500	523.0	-0.8	0.0	13.8	522.1	0.9
37	1101 1011	538.125	539.8	-0.6	-0.6	16.8	538.0	1.9
38	1101 1010	553.750	552.1	0.0	-0.6	12.3	553.8	-1.6
39	1101 1001	569.375	575.7	0.6	0.8	23.5	569.6	6.1
40	1101 1000	585.000	582.6	0.7	0.6	6.9	585.4	-2.8
41	1101 0111	600.625	601.2	-0.9	-0.1	18.6	601.2	-0.0
42	1101 0110	616.250	613.7	-0.8	-0.7	12.6	617.0	-3.2
43	1101 0101	631.875	636.7	0.7	0.0	22.9	632.8	3.9
44	1101 0100	647.500	652.3	0.7	0.8	15.6	648.5	3.7
45	1101 0011	663.125	665.9	0.1	0.9	13.6	664.1	1.5
46	1101 0010	678.750	681.8	-0.6	-0.7	15.9	680.2	1.6
47	1101 0001	694.375	703.2	-0.9	-0.7	21.4	696.0	7.2
48	1101 0000	710.000	713.0	0.8	0.0	9.8	711.8	1.3
49	1100 1111	725.625	727.5	0.6	0.6	14.4	727.6	-0.1
50	1100 1110	741.250	738.6	-0.5	0.1	11.1	743.4	-4.8
51	1100 1101	756.875	763.7	-0.8	-0.7	25.1	759.2	4.5

ORIGINAL PAGE OF POOR QUALITY

HAC TEST 527

NR 30 '81

US 236 THEMATIC MAPPER MUX UNIT TEST MODEL .. FLT. S/N 3 PAGE 77

1981/11/30 10:07:40 FINALITY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible]

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
52	1100 1100	772.500	779.3	-0.1	-0.9	15.6	775.0	4.3
53	1100 1011	788.125	793.1	0.6	0.7	13.8	790.8	2.3
54	1100 1010	803.750	805.7	0.6	0.7	12.6	806.6	-0.9
55	1100 1001	819.375	830.1	-0.8	-0.1	24.4	822.4	7.6
56	1100 1000	835.000	840.4	-0.7	-0.7	10.4	838.2	2.2
57	1100 0111	850.625	853.9	0.6	-0.1	13.4	854.0	-0.1
58	1100 0110	866.250	866.5	0.5	0.6	12.6	869.8	-3.3
59	1100 0101	881.875	889.8	-0.0	0.7	23.3	885.6	4.2
60	1100 0100	897.500	909.6	-0.8	-0.8	19.8	901.4	8.2
61	1100 0011	913.125	919.9	-0.8	-0.9	10.3	917.2	2.7
62	1100 0010	928.750	934.1	0.6	0.0	14.2	933.0	1.1
63	1100 0001	944.375	955.4	0.7	0.5	21.3	948.8	6.6
64	1100 0000	960.000	967.5	-0.8	0.0	12.1	964.6	2.8
65	1011 1111	975.625	983.6	-0.7	-0.7	16.1	980.4	3.1
66	1011 1110	991.250	993.6	-0.1	-0.7	10.0	996.3	-2.7
67	1011 1101	1006.88	1018.3	0.7	0.7	25.0	1012.1	6.5
68	1011 1100	1022.50	1030.6	0.8	0.8	12.0	1027.9	2.7
69	1011 1011	1038.13	1049.3	-0.9	-0.1	18.7	1043.7	5.6
70	1011 1010	1053.75	1060.5	-0.8	-0.8	11.2	1059.5	1.0
71	1011 1001	1069.38	1084.5	0.7	-0.1	23.9	1075.3	9.2
72	1011 1000	1085.00	1088.4	0.7	0.7	3.9	1091.1	-2.7
73	1011 0111	1100.63	1109.1	-0.1	0.7	20.7	1106.9	2.2
74	1011 0110	1116.25	1121.7	-0.6	-0.5	12.5	1122.7	-1.0
75	1011 0101	1131.88	1146.0	-0.8	-0.8	24.3	1138.5	7.5
76	1011 0100	1147.50	1159.8	0.8	0.0	13.8	1154.3	5.5
77	1011 0011	1163.13	1174.5	0.6	0.7	14.7	1170.1	4.4
78	1011 0010	1178.75	1189.8	-0.5	0.1	15.3	1185.9	3.9

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 78
1981/11/30 10:07:40 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.3.5-8 A/D THRESHOLD TEST (BAND= 1, SENSOR=1

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
79	1011 0001	1194.38	1211.1	-0.9	-0.8	21.3	1201.7	9.4
80	1011 0000	1210.00	1221.0	0.1	-0.7	9.9	1217.5	3.5
81	1010 1111	1225.63	1235.2	0.8	0.8	14.2	1233.3	1.9
82	1010 1110	1241.25	1245.2	0.7	0.7	9.9	1249.1	-3.9
83	1010 1101	1256.88	1271.3	-0.8	-0.8	26.2	1264.9	6.4
84	1010 1100	1272.50	1286.3	-0.9	-0.8	15.0	1280.7	5.6
85	1010 1011	1288.13	1300.8	0.8	-0.0	14.5	1296.5	4.3
86	1010 1010	1303.75	1312.6	0.7	0.6	11.8	1312.3	0.3
87	1010 1001	1319.38	1336.6	0.1	0.8	23.9	1328.1	8.5
88	1010 1000	1335.00	1344.1	-0.7	-0.7	7.5	1343.9	0.2
89	1010 0111	1350.63	1362.1	-0.8	-0.9	17.9	1359.7	2.3
90	1010 0110	1366.25	1373.2	0.7	0.7	11.1	1375.5	-2.4
91	1010 0101	1381.88	1397.2	0.7	0.7	24.0	1391.3	5.8
92	1010 0100	1397.50	1415.7	-0.7	-0.0	18.6	1407.1	8.6
93	1010 0011	1413.13	1427.2	-0.8	-0.7	11.4	1422.9	4.2
94	1010 0010	1428.75	1441.3	0.2	-0.6	14.2	1438.7	2.6
95	1010 0001	1444.38	1462.3	0.8	0.7	21.0	1454.6	7.8
96	1010 0000	1460.00	1466.6	0.7	0.7	4.2	1470.4	-3.8
97	1001 1111	1475.63	1487.6	-0.7	-0.8	21.0	1486.2	1.5
98	1001 1110	1491.25	1496.8	-0.8	-0.7	9.2	1502.0	-5.1
99	1001 1101	1506.88	1522.1	0.7	-0.1	25.2	1517.8	4.3
100	1001 1100	1522.50	1534.4	0.8	0.8	12.3	1533.6	0.8
101	1001 1011	1538.13	1552.5	-0.0	0.8	18.1	1549.4	3.1
102	1001 1010	1553.75	1563.6	-0.8	-0.8	11.1	1565.2	-1.6
103	1001 1001	1569.38	1589.2	-0.7	-0.8	25.6	1581.0	8.2
104	1001 1000	1585.00	1593.7	0.6	0.7	4.5	1596.8	-3.1

ORIGINAL PAGE IS OF POOR QUALITY

NOV 30 '81

1981/11/30 10:07:40 FINALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] THRESHOLD TEST [illegible]

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO- 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
105	1001 0111	1600.63	1613.0	0.7	0.7	19.2	1612.6	0.4
106	1001 0110	1616.25	1624.8	-0.7	0.0	11.8	1628.4	-3.6
107	1001 0101	1631.88	1649.4	-0.8	-0.7	24.6	1644.2	[illegible]
108	1001 0100	1647.50	1663.9	0.0	-0.8	14.5	1660.0	3.9
109	1001 0011	1663.13	1678.3	0.7	0.6	14.4	1675.8	2.5
110	1001 0010	1678.75	1692.4	0.6	0.6	14.1	1691.6	0.8
111	1001 0001	1694.38	1715.0	-0.9	-0.8	22.5	1707.4	7.6
112	1001 0000	1710.00	1728.1	-0.8	-0.8	13.1	1723.2	4.9
113	1000 1111	1725.63	1738.7	0.9	0.0	10.6	1739.0	-0.3
114	1000 1110	1741.25	1748.1	0.8	0.7	9.4	1754.8	-6.7
115	1000 1101	1756.88	1774.0	0.0	0.8	25.9	1770.6	3.3
116	1000 1100	1772.50	1789.7	-0.7	-0.9	15.7	1786.4	3.3
117	1000 1011	1788.13	1805.2	-0.8	-0.7	15.5	1802.2	3.0
118	1000 1010	1803.75	1815.6	0.7	0.6	10.4	1818.0	-2.4
119	1000 1001	1819.38	1840.5	0.8	0.6	24.9	1833.8	6.7
120	1000 1000	1835.00	1851.4	-0.7	-0.1	10.9	1849.[illegible]	1.8
121	1000 0111	1850.63	1865.4	-0.7	-0.8	14.0	1865.4	-0.0
122	1000 0110	1866.25	1876.6	0.0	-0.6	11.2	1881.2	-4.6
123	1000 0101	1881.88	1900.2	0.8	0.8	23.5	1897.0	3.1
124	1000 0100	1897.50	1918.4	0.8	0.8	18.3	1912.8	5.6
125	1000 0011	1913.13	1930.9	-0.8	-0.8	12.5	1928.7	2.1
126	1000 0010	1928.75	1944.8	-0.8	-0.6	13.9	1944.5	0.4
127	1000 0001	1944.38	1965.9	0.8	0.1	21.1	1960.3	5.6
128	1000 0000	1960.00	1978.8	0.9	0.8	12.9	1976.1	2.8
129	0111 1111	1975.63	1987.1	0.1	0.9	8.2	1991.9	-4.8
130	0111 1110	1991.25	1998.6	-0.9	-0.7	11.5	2007.7	-9.1

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 80

1981/11/30 10:07:40 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.11.3.5-8 A/D THRESHOLD TEST (BAND- 1 - SE NSUS-1 > NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
131	0111 1101	2006.88	2024.1	-0.8	-0.8	25.5	2023.5	0.6
132	0111 1100	2022.50	2037.4	0.8	0.8	13.3	2039.3	-1.9
133	0111 1011	2038.13	2052.9	0.8	0.8	15.5	2055.1	-2.2
134	0111 1010	2053.75	2066.4	-0.7	-0.1	13.5	2070.9	-4.5
135	0111 1001	2069.38	2089.2	-0.7	-0.8	22.7	2086.7	2.5
136	0111 1000	2085.00	2094.9	-0.1	-0.8	5.7	2102.5	-7.4
137	0111 0111	2100.63	2113.4	0.8	0.9	18.5	2118.3	-4.9
138	0111 0110	2116.25	2126.0	0.7	0.6	12.6	2134.1	-8.1
139	0111 0101	2131.88	2150.1	-0.8	-1.0	24.1	2149.9	0.2
140	0111 0100	2147.50	2167.3	-0.8	-0.8	17.1	2165.7	1.6
141	0111 0011	2163.13	2178.9	0.9	0.1	11.6	2181.5	-2.6
142	0111 0010	2178.75	2195.3	0.7	0.7	16.4	2197.3	-2.0
143	0111 0001	2194.38	2214.4	0.0	0.8	19.1	2213.1	1.2
144	0111 0000	2210.00	2224.0	-0.8	-0.7	9.7	2228.9	-4.9
145	0110 1111	2225.63	2240.3	-0.9	-0.8	16.3	2244.7	-4.4
146	0110 1110	2241.25	2250.3	0.7	0.6	9.9	2260.5	-10.3
147	0110 1101	2256.88	2275.5	0.8	0.8	25.2	2276.3	-0.8
148	0110 1100	2272.50	2293.5	-0.8	-0.1	18.0	2292.1	1.3
149	0110 1011	2288.13	2306.1	-0.9	-0.8	12.6	2307.9	-1.9
150	0110 1010	2303.75	2319.3	0.0	-0.7	13.2	2323.7	-4.4
151	0110 1001	2319.38	2340.7	0.7	0.7	21.3	2339.5	1.1
152	0110 1000	2335.00	2347.8	0.9	0.9	7.2	2355.3	-7.5
153	0110 0111	2350.63	2366.4	-0.8	-0.8	18.6	2371.1	-4.8
154	0110 0110	2366.25	2378.9	-0.6	-0.8	12.5	2387.0	8.0
155	0110 0101	2381.88	2401.8	1.0	-0.3	22.9	2402.8	-0.9
156	0110 0100	2397.50	2421.6	0.8	0.8	19.8	2418.6	3.0
157	0110 0011	2413.13	2431.1	0.0	0.9	9.5	2434.4	-3.2

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST 527

ORIGINAL PAGE IS OF POOR QUALITY

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	TOTAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
158	0110 0010	2428.75	2448.6	-0.8	-0.8	17.4	2430.2	-1.4
159	0110 0001	2444.38	2467.1	-0.8	-0.8	18.6	2446.0	1.2
160	0110 0000	2460.00	2469.7	0.8	0.8	2.6	2481.8	-12.0
161	0101 1111	2475.63	2491.2	0.9	0.7	21.4	2497.6	-6.4
162	0101 1110	2491.25	2501.9	-0.7	0.0	10.7	2513.4	-11.[illegible]
163	0101 1101	2506.88	2528.1	-0.8	-0.8	26.2	2529.2	-1.1
164	0101 1100	2522.50	2542.8	0.0	-0.8	14.7	2545.0	-2.2
165	0101 1011	2538.13	2557.3	0.7	0.8	14.5	2560.8	-3.5
166	0101 1010	2553.75	2568.9	0.6	0.7	11.6	2576.6	-7.7
167	0101 1001	2569.38	2593.2	-0.7	-0.9	24.3	2592.4	0.8
168	0101 1000	2585.00	2601.3	-0.9	-0.9	8.1	2608.2	-6.9
169	0101 0111	2600.63	2617.5	0.8	0.0	16.2	2624.0	-6.5
170	0101 0110	2616.25	2629.3	0.7	0.7	11.8	2639.8	-10.5
171	0101 0101	2631.88	2653.9	0.0	0.8	24.6	2655.6	-1.7
172	0101 0100	2647.50	2671.1	-0.8	-0.8	17.3	2671.4	-0.3
173	0101 0011	2663.13	2684.1	0.0	-0.8	13.0	2687.2	-3.1
174	0101 0010	2678.75	2698.3	0.8	0.7	14.2	2701.0	4.7
175	0101 0001	2694.38	2718.2	0.8	0.8	19.9	2718.8	-0.6
176	0101 0000	2710.00	2731.5	-0.9	-0.1	13.3	2734.6	-3.1
177	0100 1111	2725.63	2745.1	-0.6	-1.6	13.6	2750.4	-5.3
178	0100 1110	2741.25	2754.3	-0.1	-0.7	9.2	2766.2	-11.9
179	0100 1101	2756.88	2779.6	0.8	0.8	25.3	2782.0	-2.5
180	0100 1100	2772.50	2795.8	0.0	0.9	16.2	2797.8	-2.1
181	0100 1011	2788.13	2810.4	-0.9	-0.9	14.6	2813.6	-3.3
182	0100 1010	2803.75	2822.5	-0.7	-0.8	12.1	2829.4	-7.0
183	0100 1001	2819.38	2845.0	1.0	-0.3	22.5	2845.[illegible]	-0.2

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) NOMINAL	LEVELS RATIO= 1 :1 LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
184	0100 1000	2835.00	2855.8	0.8	0.9	10.7	2851.1	-5.1
185	0100 0111	2850.63	2869.7	0.0	0.9	13.9	2876.9	-7.2
186	0100 0110	2866.25	2882.5	-0.9	-0.8	12.8	2892.7	-10.2
187	0100 0101	2881.88	2907.0	-0.1	-0.9	24.5	2908.5	-1.5
188	0100 0100	2897.50	2926.5	0.9	0.8	19.5	2924.3	2.2
189	0100 0011	2913.13	2935.7	0.8	0.8	9.2	2940.1	[illegible]
190	0100 0010	2928.75	2952.0	-0.7	-0.0	16.2	2955.9	-3.9
191	0100 0001	2944.38	2971.4	-0.8	-0.8	19.5	2971.7	-0.2
192	0100 0000	2960.00	2988.3	-0.1	-0.9	16.9	2987.5	0.8
193	0011 1111	2975.63	2999.4	0.0	0.1	11.1	3003.3	-3.9
194	0011 1110	2991.25	3009.0	-0.1	0.6	9.5	3019.1	-10.1
195	0011 1101	3006.88	3035.9	-0.8	-0.7	27.0	3034.9	1.0
196	0011 1100	3022.50	3049.0	-0.9	-0.9	13.0	3050.7	-1.7
197	0011 1011	3038.13	3065.1	0.9	-0.1	16.1	3066.5	-1.4
198	0011 1010	3053.75	3076.3	0.8	0.9	11.2	3082.3	-6.0
199	0011 1001	3069.38	3100.3	0.1	1.0	24.0	3098.1	2.2
200	0011 1000	3085.00	3106.0	-0.9	-0.9	5.7	3113.9	-7.9
201	0011 0111	3100.63	3126.6	-0.1	-0.9	20.6	3129.7	-3.1
202	0011 0110	3116.25	3137.4	0.8	0.9	10.7	3145.5	-8.2
203	0011 0101	3131.88	3162.4	0.8	0.9	25.1	3161.3	1.1
204	0011 0100	3147.50	3178.8	-0.9	0.0	16.3	3177.1	1.7
205	0011 0011	3163.13	3192.8	-0.8	-0.8	14.0	3192.9	-0.1
206	0011 0010	3178.75	3207.5	-0.0	-0.8	14.6	3208.7	-1.2
207	0011 0001	3194.38	3227.2	0.8	0.8	19.7	3224.5	2.6
208	0011 0000	3210.00	3238.7	0.0	0.9	11.5	3240.3	-1.7
209	0010 1111	3225.63	3254.7	-0.8	-0.6	16.0	3255.1	-1.5

ORIGINAL PAGE IS OF POOR QUALITY

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
210	0010 1110	3241.25	3263.6	-0.9	-0.6	8.9	3271.9	-8.4
211	0010 1101	3256.88	3289.1	0.9	0.1	25.6	3287.7	1.4
212	0010 1100	3272.50	3306.5	0.8	0.9	17.3	3303.6	2.9
213	0010 1011	3288.13	3319.3	-0.1	0.9	12.8	3319.4	-0.1
214	0010 1010	3303.75	3332.1	-1.0	-0.9	12.8	[illegible]	-3.8
215	0010 1001	3319.38	3355.9	-0.3	-0.8	23.8	[illegible]	[illegible]
216	0010 1000	3335.00	3361.6	0.9	0.9	5.7	3364.8	-3.1
217	0010 0111	3350.63	3380.0	0.9	0.9	18.4	3382.6	-2.6
218	0010 0110	3366.25	3392.6	-0.7	0.1	12.6	3398.4	[illegible]
219	0010 0101	3381.88	3417.7	-0.9	-0.8	25.0	3414.2	[illegible]
220	0010 0100	3397.50	3436.5	-0.1	-0.8	18.8	3430.0	[illegible]
221	0010 0011	3413.13	3446.7	0.8	0.8	10.2	3445.8	0.9
222	0010 0010	3428.75	3462.0	-0.1	0.8	15.2	3461.6	0.4
223	0010 0001	3444.38	3482.6	-0.9	-0.9	20.6	3477.4	[illegible]
224	0010 0000	3460.00	3485.5	-0.9	-0.9	2.9	3493.7	-7.7
225	0001 1111	3475.63	3508.5	0.7	0.0	23.0	3509.0	-0.5
226	0001 1110	3491.25	3517.3	0.8	0.8	8.8	3524.8	-7.5
227	0001 1101	3506.88	3544.1	-0.3	0.8	26.8	3540.6	[illegible]
228	0001 1100	3522.50	3558.5	-1.1	-0.9	14.4	[illegible]	2.1
229	0001 1011	3538.13	3575.1	-0.1	-0.8	16.5	3572.2	2.9
230	0001 1010	3553.75	3584.7	0.8	0.7	9.6	3588.8	-3.7
231	0001 1001	3569.38	3611.2	0.8	0.8	26.5	3603.8	7.4
232	0001 1000	3585.00	3617.6	-0.9	0.1	6.4	3619.6	-2.0
233	0001 0111	3600.63	3635.9	-0.9	-0.7	18.3	[illegible]	0.5
234	0001 0110	3616.25	3647.1	0.0	-0.7	11.2	3651.2	-4.1
235	0001 0101	3631.88	3672.0	0.8	0.9	24.8	3667.0	[illegible]
236	0001 0100	3647.50	3687.6	-0.1	0.9	15.6	3682.8	[illegible]

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 84

1981/11/30 10:07:40 FINALITY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] THRESHOLD TEST [illegible]

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
237	0001 0011	3663.13	3703.2	-0.9	-0.9	15.6	3598.6	4.6
238	0001 0010	3678.75	3716.9	-0.9	-0.8	13.7	3714.4	2.5
239	0001 0001	3694.38	3737.4	0.9	-0.0	20.5	3730.2	7.1
240	0001 0000	3710.00	3752.4	0.8	1.1	17.1	3746.0	6.4
241	0000 1111	3725.63	3764.5	-0.1	0.8	12.1	3761.8	2.7
242	0000 1110	3741.25	3773.6	-0.3	-0.5	9.1	3777.7	-4.0
243	0000 1101	3756.88	3801.2	-0.1	-0.8	27.6	3793.5	7.8
244	0000 1100	3772.50	3815.2	1.6	1.0	14.0	3809.3	6.0
245	0000 1011	3788.13	3830.5	0.8	0.8	15.2	3825.1	5.4
246	0000 1010	3803.75	3842.5	-0.8	0.0	12.0	3840.9	1.6
247	0000 1001	3819.38	3868.7	-1.0	-0.9	26.2	3856.7	12.0
248	0000 1000	3835.00	3878.2	-0.0	-0.8	9.5	3872.5	5.7
249	0000 0111	3850.63	3891.6	0.7	0.9	13.4	3888.3	3.3
250	0000 0110	3866.25	3903.2	-0.2	0.7	11.6	3904.1	-0.9
251	0000 0101	3881.88	3929.5	-1.1	-0.8	26.3	3919.9	9.6
252	0000 0100	3897.50	3949.6	-1.0	-0.9	20.1	3935.7	14.9
253	0000 0011	3913.13	3959.0	0.9	0.1	9.4	3951.5	7.5
254	0000 0010	3928.75	3973.4	0.7	0.9	14.5	3967.3	6.1
255	0000 0001	3944.38	3994.5	-0.4	1.1	21.1	3983.1	11.4

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 85
1981/11/30 10:14:04 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
[illegible] A/D THRESHOLD TEST (RAND= [illegible]
S U M M A R Y

CHECK 1) RMS ERROR, 2) THRESHOLD INCREMENT(+/- 0.0 -= THRH INC -= 31.2)
THE REMAINING DATA ARE FOR INFORMATION ONLY

[illegible] STRAIGHT LINE TS: Y [illegible]

DEVIATION OF SLOPE FROM IDEAL IS: 0.979%
OFFSET IS:-39.5MV
COEFFICIENT OF DETERMINATION IS: R**2= .99998280
ANALOG INPUT DURING DC RESTORE IS:64.5MV

RMS ERROR -- 5.159MV REQMT: RMS ERROR [illegible]

THRESHOLD INCREMENT MEASUREMENT

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
29.1MV	243	15.852MV	2.1MV	200	6.645MV

LOWER LIMIT AT OUTPUT LEVELS RATIO -- [illegible]

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
0.3MV	241	-0.033MV	-1.1MV	168	.170MV

UPPER LIMIT AT OUTPUT LEVELS RATIO - [illegible]

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
2.1MV	150	0.022MV	0.[illegible]V	160	.220MV

TEST PASSED

HAC TEST [illegible]
NOV 30 '81

ORIGINAL PAGE IS
OF POOR QUALITY

HS-236 THERMATIC MATTER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 87

1981/11/30 10:14:17 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible]

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
THE FOLLOWING DATA ARE FOR INFORMATION ONLY								
1	1111 1111	-24.375	-28.5	-1.0	0.1		-23.7	-4.7
2	1111 1110	-8.750	-19.1	-0.2	-0.1	9.4	-7.9	-11.2
3	1111 1101	6.875	7.5	0.1	-0.0	26.6	7.8	-0.3
4	1111 1100	22.500	19.1	0.1	0.1	11.6	23.6	-4.5
5	1111 1011	38.125	38.0	0.1	0.0	18.9	39.4	-1.4
6	1111 1010	53.750	49.3	-0.1	-0.1	11.3	55.2	-5.8
7	1111 1001	69.375	74.3	-0.1	-0.2	24.9	70.9	3.3
8	1111 1000	85.000	78.1	0.1	0.1	3.8	86.7	-1.6
9	1111 0111	100.625	99.1	0.1	0.2	20.9	102.5	-3.4
10	1111 0110	116.250	110.6	-0.1	-0.1	11.5	118.3	-2.1
11	1111 0101	131.875	135.5	-0.1	-0.1	24.9	134.1	1.5
12	1111 0100	147.500	150.0	0.0	0.0	14.5	149.8	0.2
13	1111 0011	163.125	165.3	0.0	-0.0	15.3	165.6	-0.3
14	1111 0010	178.750	179.0	0.1	0.1	13.7	181.4	-2.4
15	1111 0001	194.375	201.6	-0.1	0.0	22.6	197.2	4.4
16	1111 0000	210.000	211.6	-0.1	-0.1	10.0	212.9	-1.3
17	1110 1111	225.625	226.5	-0.1	-0.1	14.8	228.7	-2.3
18	1110 1110	241.250	235.9	0.0	0.1	9.4	244.5	-8.6
19	1110 1101	256.875	262.3	-0.1	0.2	26.4	260.3	1.0
20	1110 1100	272.500	276.8	-0.0	0.1	14.5	276.1	0.7
21	1110 1011	288.125	292.8	0.0	-0.1	16.0	291.8	1.0
22	1110 1010	303.750	304.3	0.0	-0.0	11.5	307.6	-3.3
23	1110 1001	319.375	328.9	-0.0	0.1	24.6	323.4	5.5
24	1110 1000	335.000	336.1	-0.1	0.1	7.2	339.2	-3.0
25	1110 0111	350.625	353.9	-0.1	-0.0	17.7	354.9	-1.1

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 87

1981/11/30 10:14:17 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible]

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE FIT	DEVIATION
26	1110 0110	366.250	365.6	-0.1	-0.0	11.7	370.7	-5.1
27	1110 0101	381.875	390.1	0.0	0.1	24.5	386.5	3.6
28	1110 0100	397.500	407.7	0.0	0.1	17.6	402.3	5.4
29	1110 0011	413.125	419.9	-0.1	-0.1	12.2	418.1	1.8
30	1110 0010	428.750	433.9	-0.1	0.0	14.0	434.0	0.0
31	1110 0001	444.375	456.1	-0.0	-0.0	22.2	449.6	6.4
32	1110 0000	460.000	458.9	0.1	0.1	2.8	465.4	-6.5
33	1101 1111	475.625	480.4	-0.1	0.0	21.5	481.2	-0.8
34	1101 1110	491.250	489.1	-0.1	-0.0	8.8	496.9	-7.8
35	1101 1101	506.875	516.1	-0.1	-0.1	27.0	512.7	3.4
36	1101 1100	522.500	528.0	0.0	0.0	11.9	528.5	-0.5
37	1101 1011	538.125	546.5	0.1	0.1	18.5	544.3	2.3
38	1101 1010	553.750	557.4	-0.1	-0.0	10.8	560.1	-2.7
39	1101 1001	569.375	582.6	-0.1	-0.1	25.3	575.8	6.8
40	1101 1000	585.000	588.8	-0.0	-0.1	6.2	591.6	-2.8
41	1101 0111	600.625	607.4	0.0	0.0	18.6	607.4	0.0
42	1101 0110	616.250	618.3	0.0	0.0	10.9	623.2	-4.8
43	1101 0101	631.875	643.5	-0.2	-0.1	25.2	639.9	3.6
44	1101 0100	647.500	658.4	-0.1	-0.0	14.8	654.7	3.7
45	1101 0011	663.125	673.4	-0.0	0.0	15.0	670.5	2.9
46	1101 0010	678.750	686.4	0.0	0.0	13.0	686.3	0.1
47	1101 0001	694.375	709.2	0.0	0.0	22.8	702.1	7.1
48	1101 0000	710.000	722.9	-0.1	0.0	13.7	717.8	5.0
49	1100 1111	725.625	733.9	0.0	0.0	11.0	733.6	0.3
50	1100 1110	741.250	743.0	-0.0	0.0	9.1	749.4	-6.3
51	1100 1101	756.875	769.5	0.1	0.1	24.5	765.2	4.3

HAC TEST S27
NOV 30 '81

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL .. FLT. S/N 3 PAGE 188

1981/11/30 10:14:17 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] A/D THRESHOLD TEST CHANNEL [illegible] SEQUENCE [illegible]

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
52	1100 1100	772.500	784.1	0.0	-0.0	14.6	781.0	3.2
53	1100 1011	788.125	799.9	0.0	-0.0	15.7	796.7	3.1
54	1100 1010	803.750	810.8	0.0	0.0	11.0	812.5	-1.7
55	1100 1001	819.375	835.6	0.1	0.0	24.7	828.3	7.3
56	1100 1000	835.000	846.4	0.1	0.1	10.8	844.1	2.3
57	1100 0111	850.625	860.3	-0.0	0.1	13.9	859.8	0.4
58	1100 0110	866.250	871.5	-0.7	-0.0	11.3	875.6	-4.1
59	1100 0101	881.875	896.1	0.0	0.1	24.5	891.4	4.7
60	1100 0100	897.500	914.0	-0.0	0.1	18.0	907.2	6.9
61	1100 0011	913.125	925.9	-0.1	-0.0	11.8	923.0	2.9
62	1100 0010	928.750	939.2	-0.1	-0.0	13.3	938.7	0.5
63	1100 0001	944.375	961.6	0.0	-0.0	22.4	954.5	7.1
64	1100 0000	960.000	973.4	0.2	0.2	11.7	970.3	3.1
65	1011 1111	975.625	989.3	0.0	0.0	15.9	986.1	3.2
66	1011 1110	991.250	997.3	-0.0	-0.1	8.0	1001.8	-4.5
67	1011 1101	1006.88	1024.4	-0.1	-0.1	27.1	1017.6	6.8
68	1011 1100	1022.50	1035.6	-0.0	-0.0	11.1	1033.4	2.2
69	1011 1011	1038.13	1055.3	0.1	0.0	19.7	1049.2	6.1
70	1011 1010	1053.75	1064.9	0.0	0.0	9.6	1065.0	-0.0
71	1011 1001	1069.38	1090.3	0.1	0.1	25.4	1080.7	9.6
72	1011 1000	1085.00	1093.7	-0.2	-0.2	3.4	1096.5	-2.8
73	1011 0111	1100.63	1115.5	0.1	0.0	21.8	1112.3	3.2
74	1011 0110	1116.25	1125.4	0.0	0.1	9.9	1128.1	-2.7
75	1011 0101	1131.88	1150.8	-0.0	0.1	25.4	1143.8	7.0
76	1011 0100	1147.50	1165.0	-0.1	-0.0	14.1	1159.6	5.3
77	1011 0011	1163.13	1181.0	0.0	0.0	16.0	1175.4	5.6
78	1011 0010	1178.75	1193.0	0.0	0.0	12.0	1191.2	1.8

ORIGINAL PAGE IS OF POOR QUALITY

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	TOTAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE FITPT	DEVIATION
79	1011 0001	1194.38	1216.2	0.1	0.0	23.2	1207.0	9.2
80	1011 0000	1210.00	1229.0	-0.0	0.0	12.8	1222.7	6.2
81	1010 1111	1225.63	1241.1	0.0	-0.0	12.1	1238.5	2.6
82	1010 1110	1241.25	1249.4	0.0	-0.1	8.3	1254.3	-4.9
83	1010 1101	1256.88	1276.2	0.0	0.1	26.8	1270.1	6.1
84	1010 1100	1272.50	1290.4	0.0	0.1	14.2	1285.8	4.6
85	1010 1011	1288.13	1307.0	0.0	0.0	16.6	1301.6	5.4
86	1010 1010	1303.75	1317.0	-0.0	0.0	9.9	1317.4	-0.4
87	1010 1001	1319.38	1342.1	-0.1	-0.1	25.2	1333.2	9.0
88	1010 1000	1335.00	1349.3	0.1	0.1	7.2	1349.0	0.3
89	1010 0111	1350.63	1367.1	-0.0	0.0	17.8	1364.7	2.3
90	1010 0110	1366.25	1377.4	-0.1	-0.1	10.3	1380.5	-3.1
91	1010 0101	1381.88	1402.4	-0.1	-0.1	25.0	1396.3	6.1
92	1010 0100	1397.50	1419.2	0.1	0.0	16.8	1412.1	7.1
93	1010 0011	1413.13	1432.5	0.0	0.0	13.3	1427.8	4.7
94	1010 0010	1428.75	1444.8	-0.0	0.0	12.3	1443.6	1.2
95	1010 0001	1444.38	1467.8	-0.1	-0.1	22.9	1459.4	8.4
96	1010 0000	1460.00	1476.2	0.0	-0.2	8.4	1475.2	1.0
97	1001 1111	1475.63	1492.0	0.0	0.1	15.9	1491.0	1.1
98	1001 1110	1491.25	1499.7	0.0	0.1	7.7	1506.7	-7.0
99	1001 1101	1506.88	1527.3	-0.1	-0.0	27.6	1522.5	4.8
100	1001 1100	1522.50	1538.5	-0.1	-0.1	11.2	1538.3	0.2
101	1001 1011	1538.13	1558.1	0.0	0.0	19.6	1554.1	4.0
102	1001 1010	1553.75	1567.1	0.1	0.0	9.0	1569.8	-2.7
103	1001 1001	1569.38	1593.3	0.1	-0.0	26.2	1585.6	7.7
104	1001 1000	1585.00	1598.3	-0.1	-0.2	5.0	1601.2	-3.1

ORIGINAL PAGE IS OF POOR QUALITY

HS 236 THEMATIC MAPPER MUX UNIT TEST MODEL .. FLT. S/N 3 PAGE 90

1981/11/30 10:14:17 FINALITY FULL PERFORMANCE @ AMBIENT TEMP.

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
105	1001 0111	1600.63	1618.2	-0.0	-0.0	19.8	1617.2	1.0
106	1001 0110	1616.25	1627.7	0.0	0.1	9.5	1633.0	-5.3
107	1001 0101	1631.88	1653.2	0.1	0.1	25.6	1648.7	4.5
108	1001 0100	1647.50	1667.5	0.0	0.0	14.3	1664.5	3.0
109	1001 0011	1663.13	1683.7	-0.0	-0.1	16.1	1680.3	3.4
110	1001 0010	1678.75	1695.2	-0.0	-0.0	11.5	1696.1	-0.9
111	1001 0001	1694.38	1718.7	0.1	0.1	23.5	1711.8	6.9
112	1001 0000	1710.00	1735.0	0.1	0.1	16.3	1727.6	7.4
113	1000 1111	1725.63	1743.6	-0.1	0.1	8.6	1743.4	0.2
114	1000 1110	1741.25	1751.5	0.0	0.1	7.8	1759.2	-7.7
115	1000 1101	1756.88	1778.9	0.0	0.0	27.4	1775.0	3.9
116	1000 1100	1772.50	1792.9	0.1	0.1	14.0	1790.7	2.1
117	1000 1011	1788.13	1809.5	0.0	0.1	16.6	1806.5	2.9
118	1000 1010	1803.75	1819.1	-0.1	-0.0	9.6	1822.3	-3.2
119	1000 1001	1819.38	1844.7	0.1	0.0	25.6	1838.1	6.6
120	1000 1000	1835.00	1854.9	0.1	0.1	10.1	1853.8	1.0
121	1000 0111	1850.63	1869.1	0.1	0.0	14.5	1869.6	-0.5
122	1000 0110	1866.25	1879.2	-0.1	0.1	9.9	1885.4	6.2
123	1000 0101	1881.88	1904.7	-0.1	-0.1	25.5	1901.2	3.6
124	1000 0100	1897.50	1921.6	0.0	-0.0	16.9	1917.0	4.7
125	1000 0011	1913.13	1934.8	0.1	0.1	13.2	1932.7	2.1
126	1000 0010	1928.75	1946.6	0.1	0.1	11.8	1948.5	-1.9
127	1000 0001	1944.38	1969.9	0.0	-0.0	23.3	1964.3	5.6
128	1000 0000	1960.00	1978.1	-0.2	-0.1	8.1	1980.1	-2.0
129	0111 1111	1975.63	1992.6	0.1	0.1	14.5	1995.9	-3.3
130	0111 1110	1991.25	2002.5	-0.0	-0.0	9.9	2011.6	-9.1

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27
NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
131	0111 1101	2006.88	2027.4	0.0	0.1	24.9	2027.4	-0.0
132	0111 1100	2022.50	2040.3	-0.1	-0.1	12.9	2043.2	-2.9
133	0111 1011	2038.13	2059.3	0.0	-0.1	19.1	2059.0	0.4
134	0111 1010	2053.75	2069.4	0.1	0.2	10.1	2074.7	-5.[illegible]
135	0111 1001	2069.38	2092.9	0.1	0.1	23.4	2090.5	2.3
136	0111 1000	2085.00	2097.7	-0.2	0.0	4.4	2106.3	-9.1
137	0111 0111	2100.63	2119.2	-0.2	-0.0	22.0	2122.1	-2.8
138	0111 0110	2116.25	2128.7	0.0	-0.1	9.5	2137.9	-9.1
139	0111 0101	2131.88	2154.2	0.1	0.2	25.5	2153.6	0.6
140	0111 0100	2147.50	2169.8	-0.1	0.1	15.6	2169.4	0.4
141	0111 0011	2163.13	2185.3	-0.1	-0.1	15.4	2185.2	0.1
142	0111 0010	2178.75	2196.3	-0.1	-0.1	11.0	2201.0	-4.7
143	0111 0001	2194.38	2219.3	0.1	-0.0	23.0	2216.7	2.6
144	0111 0000	2210.00	2230.0	0.2	0.1	10.7	2232.5	-2.5
145	0110 1111	2225.63	2244.5	0.0	0.2	14.4	2248.3	-3.8
146	0110 1110	2241.25	2252.7	-0.2	-0.1	8.2	2264.1	-11.4
147	0110 1101	2256.88	2279.4	0.0	-0.2	26.6	2279.9	-0.5
148	0110 1100	2272.50	2295.6	0.1	0.2	16.2	2295.6	-0.0
149	0110 1011	2288.13	2311.0	0.2	0.0	15.4	2311.4	-0.4
150	0110 1010	2303.75	2320.2	-0.1	2.1	9.2	2327.2	-7.0
151	0110 1001	2319.38	2344.7	-0.1	-0.1	24.5	2343.0	1.7
152	0110 1000	2335.00	2352.7	0.1	-0.2	8.0	2358.7	-6.0
153	0110 0111	2350.63	2370.8	0.1	0.2	18.0	2374.5	-3.7
154	0110 0110	2366.25	2380.5	0.0	0.2	9.7	2390.3	-9.8
155	0110 0101	2381.88	2406.0	-0.1	-0.2	25.5	2406.1	-0.1
156	0110 0100	2397.50	2424.3	-0.1	-0.2	18.3	2421.9	2.4
157	0110 0011	2413.13	2436.8	0.2	0.1	12.5	2437.6	-0.9

ORIGINAL PAGE IS OF POOR QUALITY

C-2

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 92
1981/11/30 10:14:17 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND- 1, SENSOR-1)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
159	0110 0010	2428.75	2447.9	0.1	0.1	11.2	2453.4	-5.5
159	0110 0001	2444.38	2470.8	0.0	0.2	22.9	2469.2	1.6
160	0110 0000	2460.00	2476.9	-0.3	-0.3	6.0	2485.0	-8.1
161	0101 1111	2475.63	2495.8	-0.0	-0.1	19.0	2500.7	-4.9
162	0101 1110	2491.25	2503.1	0.1	0.1	7.3	2516.5	-13.4
163	0101 1101	2506.88	2530.6	0.1	0.0	27.5	2532.3	-1.7
164	0101 1100	2522.50	2543.7	-0.2	-0.1	13.1	2548.1	-4.4
165	0101 1011	2538.13	2562.5	-0.1	-0.1	18.8	2563.9	-1.4
166	0101 1010	2553.75	2572.0	0.0	-0.2	9.5	2579.6	-7.7
167	0101 1001	2569.38	2597.6	0.1	0.2	25.6	2595.4	2.2
168	0101 1000	2585.00	2603.4	-1.1	0.2	5.8	2611.2	-7.8
169	0101 0111	2600.63	2622.3	-0.1	-0.2	18.9	2627.0	-4.6
170	0101 0110	2616.25	2631.2	-0.2	-0.1	8.9	2642.7	-11.5
171	0101 0101	2631.88	2656.9	0.2	0.0	25.7	2658.5	-1.6
172	0101 0100	2647.50	2672.8	0.1	0.2	15.9	2674.3	-1.5
173	0101 0011	2663.13	2688.5	-0.1	0.2	15.7	2690.1	-1.5
174	0101 0010	2678.75	2698.7	-0.1	-0.2	10.1	2705.9	-7.2
175	0101 0001	2694.38	2722.3	0.0	-0.1	23.6	2721.6	0.6
176	0101 0000	2710.00	2736.8	0.2	0.2	14.5	2737.4	-0.6
177	0100 1111	2725.63	2747.4	0.2	0.2	10.5	2753.2	-5.8
178	0100 1110	2741.25	2755.3	-0.2	-0.1	7.9	2769.0	-13.7
179	0100 1101	2756.88	2782.6	-0.1	-0.2	27.2	2784.7	-2.2
180	0100 1100	2772.50	2799.4	0.0	-0.2	16.8	2800.5	-1.1
181	0100 1011	2788.13	2814.1	0.1	0.1	14.8	2816.3	-2.2
182	0100 1010	2803.75	2824.5	0.0	0.2	10.4	2832.1	-7.5
183	0100 1001	2819.38	2849.6	-0.3	-0.3	25.1	2847.9	1.8

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 93

1981/11/30 10:14:17 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] A/D THRESHOLD TEST (BAND= 1 [illegible]

HAC TEST 527

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
184	0100 1000	2835.00	2858.4	-0.3	-0.3	8.8	2863.6	-5.2
185	0100 0111	2850.63	2873.9	0.2	-0.1	15.4	2879.5	[illegible]
186	0100 0110	2866.25	2883.1	0.2	0.2	9.2	2895.2	-12.1
187	0100 0101	2881.88	2908.9	-0.1	0.2	25.8	2911.0	[illegible]
188	0100 0100	2897.50	2927.5	-0.3	-0.2	18.6	2926.7	0.7
189	0100 0011	2913.13	2940.6	-0.1	-0.1	13.1	2942.5	-1.9
190	0100 0010	2928.75	2950.8	0.1	0.2	10.1	2958.3	-7.5
191	0100 0001	2944.38	2974.1	0.1	0.2	23.3	2974.1	-0.0
192	0100 0000	2960.00	2990.4	-0.5	-0.1	16.3	[illegible]	[illegible]
193	0011 1111	2975.63	3002.4	-0.2	-0.1	12.1	3005.[illegible]	-3.2
194	0011 1110	2991.25	3009.8	-0.1	-0.2	7.3	[illegible]	-11.[illegible]
195	0011 1101	3006.88	3037.5	0.2	0.2	27.7	3037.2	0.3
196	0011 1100	3022.50	3048.9	-0.0	0.1	11.4	3053.0	-4.0
197	0011 1011	3038.13	3069.7	-0.2	-0.2	20.8	3069.7	1.0
198	0011 1010	3053.75	3078.5	-0.3	-0.2	8.8	3084.5	-6.0
199	0011 1001	3069.38	3104.7	0.2	0.0	26.2	3100.3	4.4
200	0011 1000	3085.00	3106.8	0.2	0.2	2.1	3116.1	-9.3
201	0011 0111	3100.63	3129.5	-0.1	0.1	22.7	3131.9	-2.3
202	0011 0110	3116.25	3138.6	-0.2	-0.2	9.0	3147.6	-9.1
203	0011 0101	3131.88	3164.8	0.0	-0.2	26.2	3163.4	1.4
204	0011 0100	3147.50	3179.9	0.1	0.2	15.1	3179.2	0.7
205	0011 0011	3163.13	3196.5	0.2	0.2	16.5	3195.0	1.5
206	0011 0010	3178.75	3209.2	-0.3	0.0	12.7	3210.7	-1.[illegible]
207	0011 0001	3194.38	3230.4	-0.3	-0.2	21.2	3226.5	3.9
208	0011 0000	3210.00	3244.0	-0.0	-0.3	13.6	3242.3	1.7
209	0010 1111	3225.63	3255.8	0.1	0.2	11.8	3258.1	-2.3

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL .. FLT. S/N 3 PAGE 94

1981/11/30 10:14:17 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] A/D THRESHOLD TEST [illegible]

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
210	0010 1110	3241.25	3263.3	0.0	0.2	7.5	3273.9	-10.6
211	0010 1101	3256.88	3291.5	-0.6	-0.1	28.2	3289.6	1.8
212	0010 1100	3272.50	3306.8	-0.3	-0.2	15.4	3305.4	1.4
213	0010 1011	3288.13	3323.2	0.0	0.0	16.3	3321.2	2.0
214	0010 1010	3303.75	3333.1	0.2	0.1	9.9	3337.0	-4.9
215	0010 1001	3319.38	3358.5	-0.1	0.3	25.4	3357.8	0.8
216	0010 1000	3335.00	3364.0	-0.3	-0.3	5.5	3348.5	-4.5
217	0010 0111	3350.63	3383.6	0.0	-0.1	19.5	3384.3	-0.7
218	0010 0110	3366.25	3392.5	0.1	0.2	8.9	3400.1	-7.6
219	0010 0101	3381.88	3418.6	0.2	0.2	26.1	3415.9	2.8
220	0010 0100	3397.50	3437.0	-0.2	0.1	18.3	3431.6	5.4
221	0010 0011	3413.13	3450.8	-0.2	-0.1	13.8	3447.4	3.4
222	0010 0010	3428.75	3460.9	-0.0	-0.2	10.1	3463.2	-2.3
223	0010 0001	3444.38	3484.4	0.1	0.1	23.5	3479.0	5.4
224	0010 0000	3460.00	3494.1	-0.1	0.4	9.6	3494.8	-0.7
225	0001 1111	3475.63	3509.9	-0.4	-0.3	15.8	3510.5	-0.7
226	0001 1110	3491.25	3516.8	-0.2	-0.2	6.9	3526.3	-9.5
227	0001 1101	3506.88	3545.5	0.2	0.1	28.7	3547.1	3.4
228	0001 1100	3522.50	3557.1	0.1	0.3	11.6	3557.9	-0.7
229	0001 1011	3538.13	3577.4	-0.1	0.3	20.3	3573.6	3.8
230	0001 1010	3553.75	3586.0	-0.1	-0.2	8.6	3589.4	-3.4
231	0001 1001	3569.38	3613.1	-0.2	-0.3	27.1	3605.2	7.9
232	0001 1000	3585.00	3618.6	0.2	0.3	5.5	3621.0	-2.4
233	0001 0111	3600.63	3637.8	0.2	0.3	19.2	3636.8	1.1
234	0001 0110	3616.25	3646.7	-0.3	0.1	8.9	3652.5	-5.8
235	0001 0101	3631.88	3673.6	-0.4	-0.3	26.9	3668.3	5.3
236	0001 0100	3647.50	3689.0	-0.1	-0.2	15.3	3684.1	4.9

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 95

1981/11/30 10:14:17 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 1, SENSOR=[illegible]) [illegible]

HAC TEST S27

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
237	0001 0011	3663.13	3705.6	0.1	0.3	16.6	3699.9	5.7
238	0001 0010	3678.75	3717.6	-0.1	0.2	12.0	3715.6	1.9
239	0001 0001	3694.38	3739.7	-0.4	1.6	22.1	3731.4	8.3
240	0001 0000	3710.00	3757.2	-0.4	-0.2	17.5	3747.2	10.0
241	0000 1111	3725.63	3765.1	0.3	0.0	7.9	3763.0	2.1
242	0000 1110	3741.25	3772.5	0.2	0.2	7.4	3778.8	-6.2
243	0000 1101	3756.88	3801.7	-0.4	0.0	29.1	3794.5	7.1
244	0000 1100	3772.50	3817.4	-0.3	-0.3	15.7	3810.3	7.1
245	0000 1011	3788.13	3833.5	-0.1	-0.2	16.1	3826.1	7.4
246	0000 1010	3803.75	3842.7	0.2	0.4	9.2	3841.9	0.8
247	0000 1001	3819.38	3868.8	0.2	0.3	26.1	3857.6	11.2
248	0000 1000	3835.00	3878.2	-0.4	-0.0	9.4	3873.4	4.8
249	0000 0111	3850.63	3894.1	-0.3	-0.2	15.8	3889.2	4.9
250	0000 0110	3866.25	3902.7	0.2	0.1	8.7	3905.0	-2.2
251	0000 0101	3881.88	3929.6	0.2	0.3	26.9	3920.8	8.9
252	0000 0100	3897.50	3947.3	-0.1	0.3	17.6	3936.5	10.7
253	0000 0011	3913.13	3962.1	-0.4	-0.3	14.8	3952.3	9.8
254	0000 0010	3928.75	3971.8	-0.3	-0.1	9.7	3968.1	3.7
255	0000 0001	3944.38	3997.8	0.1	0.1	26.0	3983.9	14.0

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 96
1981/11/30 10:20:41 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 1, SENSOR=3)

S U M M A R Y

CHECK 1) RMS ERROR, 2) THRESHOLD INCREMENT(+/- 0.0 <= THRH INC <= 31.2)
THE REMAINING DATA ARE FOR INFORMATION ONLY

BEST FIT STRAIGHT LINE IS: Y =15.836X -39.9MV

DEVIATION OF SLOPE FROM IDEAL IS: 1.353%
OFFSET IS:-39.9MV
COEFFICIENT OF DETERMINATION IS: R**2= .99998040
ANALOG INPUT DURING DC RESTORE IS:64.4MV

RMS ERROR = 4.988MV REQMT: RMS ERROR <=7.812MV

THRESHOLD INCREMENT MEASUREMENT

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
28.1MV	243	15.912MV	2.5MV	32	6.002MV

LOWER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
1.9MV	194	-0.059MV	-2.4MV	210	.393MV

UPPER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
1.9MV	194	-0.015MV	-2.4MV	210	.376MV

TEST PASSED

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL .. FLT. S/N 3 PAGE 97

1981/11/30 10:20:55 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 1 , SENSOR=1

HAC TEST S27

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
THE FOLLOWING DATA ARE FOR INFORMATION ONLY								
1	1111 1111	-24.375	-28.9	-0.8	-0.1		-24.0	-4.9
2	1111 1110	-8.750	-18.0	-0.0	-0.8	10.9	-8.2	-9.8
3	1111 1101	6.875	7.0	0.1	0.2	25.0	7.6	-0.6
4	1111 1100	22.500	19.7	-0.1	0.0	12.6	23.5	-3.8
5	1111 1011	38.125	37.9	-0.6	-0.6	18.2	39.3	-1.4
6	1111 1010	53.750	50.0	-0.3	-0.3	12.1	55.1	-5.1
7	1111 1001	69.375	73.9	0.1	-0.0	23.8	71.0	2.9
8	1111 1000	85.000	78.9	-0.3	-0.3	5.0	86.8	-8.0
9	1111 0111	100.625	98.9	-0.1	0.4	20.0	102.7	-3.8
10	1111 0110	116.250	112.1	-0.8	-0.7	13.2	118.5	-6.4
11	1111 0101	131.875	135.3	0.0	-0.3	23.2	134.3	1.0
12	1111 0100	147.500	150.7	-0.0	0.1	15.4	150.2	0.6
13	1111 0011	163.125	165.0	0.4	0.5	14.2	166.0	-1.0
14	1111 0010	178.750	180.8	-0.8	-0.1	15.8	181.8	-1.1
15	1111 0001	194.375	202.1	-0.5	-0.3	21.4	197.7	4.5
16	1111 0000	210.000	211.7	-0.0	-0.3	9.5	213.5	-1.8
17	1110 1111	225.625	226.6	0.1	0.3	14.9	229.3	-2.7
18	1110 1110	241.250	237.2	-0.1	0.6	10.6	245.2	-7.9
19	1110 1101	256.875	262.8	-0.3	-0.1	25.5	261.0	1.8
20	1110 1100	272.500	278.4	-0.1	0.0	15.6	276.9	1.5
21	1110 1011	288.125	293.1	0.4	-0.1	14.7	292.7	0.4
22	1110 1010	303.750	305.9	0.3	0.4	12.8	308.5	-2.6
23	1110 1001	319.375	329.4	-0.0	0.3	23.5	324.4	5.0
24	1110 1000	335.000	337.2	0.4	0.3	7.8	340.2	-3.0
25	1110 0111	350.625	354.7	-0.0	-0.2	17.5	356.0	-1.3

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 98
1981/11/30 10:20:55 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.3.5-8 A/D THRESHOLD TEST (BAND= 1 SENSOR=3)

HAC TEST 527
NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
26	1110 0110	366.250	367.2	0.7	0.7	12.5	371.9	-4.7
27	1110 0101	381.875	390.3	0.5	0.5	23.1	387.7	2.6
28	1110 0100	397.500	409.3	-0.1	0.0	19.0	403.5	5.8
29	1110 0011	413.125	420.9	-0.3	-0.3	11.6	419.4	1.5
30	1110 0010	428.750	436.5	-0.1	-0.9	15.5	435.2	1.3
31	1110 0001	444.375	457.2	0.2	0.3	20.7	451.1	6.1
32	1110 0000	460.000	459.7	0.0	0.3	2.5	466.9	-7.2
33	1101 1111	475.625	481.8	-0.3	-0.2	22.1	482.7	-1.0
34	1101 1110	491.250	492.1	-0.7	-0.7	10.3	498.6	-6.5
35	1101 1101	506.875	517.3	0.1	0.0	25.3	514.4	2.9
36	1101 1100	522.500	530.3	-0.0	-0.0	12.9	530.2	0.0
37	1101 1011	538.125	548.2	-0.4	-0.1	17.9	546.1	2.1
38	1101 1010	553.750	559.8	-0.3	-0.2	11.6	561.9	-2.1
39	1101 1001	569.375	584.3	-0.2	-0.3	24.4	577.7	6.5
40	1101 1000	585.000	591.5	-0.6	-0.7	7.2	593.6	-2.1
41	1101 0111	600.625	609.1	0.3	0.2	17.6	609.4	-0.3
42	1101 0110	616.250	621.6	-0.7	0.0	12.5	625.3	-3.6
43	1101 0101	631.875	645.1	-0.2	-0.2	23.5	641.1	4.0
44	1101 0100	647.500	660.8	0.0	-0.0	15.6	656.9	3.8
45	1101 0011	663.125	675.1	0.3	0.4	14.3	672.8	2.3
46	1101 0010	678.750	689.1	-0.0	0.8	14.0	688.6	0.5
47	1101 0001	694.375	711.6	-0.2	-0.2	22.5	704.4	7.2
48	1101 0000	710.000	724.6	-0.3	-0.3	13.0	720.3	4.4
49	1100 1111	725.625	736.0	0.2	-0.1	11.4	736.1	-0.1
50	1100 1110	741.250	746.1	0.6	0.5	10.1	751.9	-5.8
51	1100 1101	756.875	771.9	-0.3	-0.1	25.7	767.8	4.1

ORIGINAL PAGE IS
OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 99

1981/11/30 10:20:55 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND - 1 [illegible]

HAC TEST 527

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
52	1100 1100	772.500	787.6	0.0	0.0	15.7	783.6	3.9
53	1100 1011	788.125	802.3	0.0	-0.3	14.7	799.5	2.9
54	1100 1010	803.750	814.3	0.1	0.1	12.0	815.3	-1.0
55	1100 1001	819.375	837.9	0.3	0.3	23.6	831.1	6.7
56	1100 1000	835.000	848.7	0.3	-0.0	10.8	847.0	1.7
57	1100 0111	850.625	863.0	-0.2	-0.2	14.4	862.8	0.2
58	1100 0110	866.250	874.9	0.6	-0.1	11.8	878.6	-3.8
59	1100 0101	881.875	898.6	0.1	0.2	23.7	894.5	4.1
60	1100 0100	897.500	917.6	-0.0	-0.1	19.0	910.3	7.2
61	1100 0011	913.125	928.9	-0.2	-0.4	11.3	926.1	2.7
62	1100 0010	928.750	943.4	-0.8	-0.8	14.6	942.0	1.5
63	1100 0001	944.375	964.7	0.1	-0.1	21.3	957.8	6.9
64	1100 0000	960.000	977.1	-0.3	-0.2	12.4	973.7	3.5
65	1011 1111	975.625	992.4	-0.1	0.0	15.3	989.5	2.9
66	1011 1110	991.250	1002.0	-0.7	-0.8	9.5	1005.3	-3.4
67	1011 1101	1006.88	1027.6	0.0	-0.2	25.6	1021.2	6.5
68	1011 1100	1022.50	1039.5	-0.1	-0.0	11.9	1037.0	2.5
69	1011 1011	1038.13	1058.4	0.1	0.1	18.9	1052.8	5.6
70	1011 1010	1053.75	1069.1	0.0	0.0	10.6	1068.7	0.4
71	1011 1001	1069.38	1093.8	0.0	-0.0	24.7	1084.5	9.3
72	1011 1000	1085.00	1097.9	-0.4	-0.0	4.1	1100.3	-2.4
73	1011 0111	1100.63	1119.0	0.1	0.1	21.1	1116.2	2.8
74	1011 0110	1116.25	1129.8	0.0	0.6	10.8	1132.0	-2.2
75	1011 0101	1131.88	1154.4	-0.1	-0.2	24.6	1147.9	[illegible]
76	1011 0100	1147.50	1169.3	-0.2	-0.2	14.9	1163.7	5.6
77	1011 0011	1163.13	1184.2	0.3	-0.0	14.9	1179.5	4.6
78	1011 0010	1178.75	1197.8	0.6	0.6	13.6	1195.4	2.4

ORIGINAL PAGE IS OF POOR QUALITY

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
79	1011 0001	1194.38	1220.5	-0.2	-0.1	22.7	1211.2	9.3
80	1011 0000	1210.00	1232.4	-0.1	-0.1	11.9	1227.0	5.4
81	1010 1111	1225.63	1245.1	0.1	-0.1	12.7	1242.9	2.3
82	1010 1110	1241.25	1254.2	0.7	0.7	9.1	1258.7	-4.5
83	1010 1101	1256.88	1280.1	0.2	0.2	25.9	1274.5	5.6
84	1010 1100	1272.50	1295.3	0.1	0.0	15.1	1290.4	4.9
85	1010 1011	1288.13	1311.2	-0.1	-0.1	15.9	1306.2	5.0
86	1010 1010	1303.75	1322.3	-0.1	0.0	11.1	1322.1	0.1
87	1010 1001	1319.38	1346.3	0.1	0.1	24.0	1337.9	8.4
88	1010 1000	1335.00	1353.9	-0.0	-0.3	7.6	1353.7	0.2
89	1010 0111	1350.63	1371.6	-0.1	-0.1	17.7	1369.6	2.0
90	1010 0110	1366.25	1383.2	-0.6	-0.6	11.6	1385.4	-2.2
91	1010 0101	1381.88	1406.7	0.2	0.1	23.5	1401.2	5.5
92	1010 0100	1397.50	1424.5	0.1	0.0	17.8	1417.1	7.5
93	1010 0011	1413.13	1437.0	-0.3	-0.1	12.5	1432.9	4.1
94	1010 0010	1428.75	1451.1	-0.9	-0.9	14.1	1448.7	2.4
95	1010 0001	1444.38	1472.9	0.0	-0.2	21.7	1464.6	8.3
96	1010 0000	1460.00	1480.1	0.2	0.3	7.3	1480.4	-0.3
97	1001 1111	1475.63	1497.0	0.1	0.1	16.8	1496.3	0.7
98	1001 1110	1491.25	1506.2	-0.6	0.0	9.2	1512.1	-5.9
99	1001 1101	1506.88	1532.3	-0.2	-0.2	26.1	1527.9	4.4
100	1001 1100	1522.50	1544.1	-0.0	0.0	11.8	1543.8	0.3
101	1001 1011	1538.13	1563.1	0.1	0.2	19.0	1559.6	3.5
102	1001 1010	1553.75	1573.1	-0.0	-0.2	10.0	1575.4	-2.3
103	1001 1001	1569.38	1598.4	-0.1	-0.2	25.2	1591.3	7.1
104	1001 1000	1585.00	1604.1	0.5	0.5	5.7	1607.1	-3.0

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 101

1981/11/30 10:20:55 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-4 A/D THRESHOLD TEST (BAND- 1 SENSOR-3) NOV 30 '81

HAC TEST S27

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) NOMINAL	LEVELS RATIO- LOWER	1 :1 UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
105	1001 0111	1600.63	1623.5	0.1	0.0	19.4	1622.9	0.5
106	1001 0110	1616.25	1633.9	0.7	0.5	10.4	1638.8	-4.9
107	1001 0101	1631.88	1658.8	-0.1	0.0	24.9	1654.6	4.2
108	1001 0100	1647.50	1673.7	-0.1	-0.2	14.9	1670.5	3.3
109	1001 0011	1663.13	1689.0	0.0	-0.3	15.3	1686.3	2.8
110	1001 0010	1678.75	1701.9	0.4	0.2	12.8	1702.1	-0.2
111	1001 0001	1694.38	1724.6	0.2	0.1	22.7	1718.0	6.7
112	1001 0000	1710.00	1740.1	-0.1	-0.0	15.5	1733.8	6.3
113	1000 1111	1725.63	1749.5	-0.2	-0.1	9.3	1749.6	-0.2
114	1000 1110	1741.25	1758.2	0.6	-0.0	8.7	1765.5	-7.3
115	1000 1101	1756.88	1784.7	0.2	0.1	26.5	1781.3	3.4
116	1000 1100	1772.50	1799.6	0.0	-0.1	15.0	1797.1	2.6
117	1000 1011	1788.13	1815.5	-0.1	-0.1	15.7	1813.0	2.5
118	1000 1010	1803.75	1825.9	0.2	0.1	10.4	1828.8	-2.9
119	1000 1001	1819.38	1850.6	0.2	0.0	24.7	1844.7	5.9
120	1000 1000	1835.00	1861.1	-0.0	0.0	10.6	1860.5	0.6
121	1000 0111	1850.63	1875.7	-0.1	0.0	14.6	1876.3	-0.6
122	1000 0110	1866.25	1886.9	-0.5	-0.6	11.2	1892.2	-5.2
123	1000 0101	1881.88	1911.0	0.1	-0.1	24.0	1908.0	3.0
124	1000 0100	1897.50	1928.9	0.0	0.0	17.9	1923.8	5.0
125	1000 0011	1913.13	1940.9	0.3	0.2	12.0	1939.7	1.2
126	1000 0010	1928.75	1954.8	-0.5	0.1	13.8	1955.5	-0.7
127	1000 0001	1944.38	1976.9	0.0	-0.0	22.1	1971.3	5.6
128	1000 0000	1960.00	1985.8	0.2	-0.0	8.9	1987.2	-1.4
129	0111 1111	1975.63	1999.1	0.1	0.2	13.3	2003.0	-3.9
130	0111 1110	1991.25	2008.2	-0.1	0.7	9.1	2018.9	-10.6

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL .. FLT. S/N 3 PAGE 102

1981/11/30 10:20:55 FINALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible]

HAC TEST 527

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
131	0111 1101	2006.88	2034.2	-0.0	-0.0	26.0	2034.7	-0.5
132	0111 1100	2027.50	2047.8	-0.0	-0.1	13.5	2050.5	-2.8
133	0111 1011	2038.13	2066.4	0.0	0.0	18.6	2066.4	0.0
134	0111 1010	2053.75	2076.6	-0.1	-0.0	10.2	2082.2	-5.6
135	0111 1001	2069.38	2100.4	-0.1	0.0	23.8	2098.0	2.3
136	0111 1000	2085.00	2104.7	-0.1	-0.1	4.4	2113.9	-9.1
137	0111 0111	2100.63	2126.2	0.0	0.1	21.5	2129.7	[illegible]
138	0111 0110	2116.25	2136.7	0.6	0.6	10.4	2145.5	-8.8
139	0111 0101	2131.88	2161.2	0.0	0.1	24.5	2161.4	-0.2
140	0111 0100	2147.50	2177.7	-0.2	-0.0	16.4	2177.2	0.5
141	0111 0011	2163.13	2192.9	-0.0	-0.0	15.2	2193.1	-0.1
142	0111 0010	2178.75	2206.3	0.0	-0.1	13.4	2208.9	-2.6
143	0111 0001	2194.38	2226.8	0.1	0.2	20.5	2224.7	2.1
144	0111 0000	2210.00	2236.9	-0.0	0.2	10.1	2240.6	-3.6
145	0110 1111	2225.63	2252.0	-0.1	0.0	15.0	2256.4	-4.4
146	0110 1110	2241.25	2261.8	-0.6	-0.7	9.8	2272.2	-10.4
147	0110 1101	2256.88	2286.8	0.1	0.0	25.0	2288.1	-1.3
148	0110 1100	2272.50	2303.5	0.0	0.1	16.7	2303.9	-0.4
149	0110 1011	2288.13	2319.0	0.0	0.1	15.4	2319.7	-0.8
150	0110 1010	2303.75	2330.0	-0.1	-0.0	11.0	[illegible]	[illegible]
151	0110 1001	2319.38	2353.0	-0.0	-0.1	22.9	2351.3	1.6
152	0110 1000	2335.00	2360.4	-0.3	-0.3	7.4	2357.3	-6.9
153	0110 0111	2350.63	2378.7	0.1	0.1	18.3	2383.1	-4.4
154	0110 0110	2366.25	2390.2	-0.6	-0.0	11.4	2398.9	[illegible]
155	0110 0101	2381.88	2413.9	-0.1	-0.1	23.7	2414.8	-0.9
156	0110 0100	2397.50	2432.8	0.2	-0.0	18.9	[illegible]	2.2
157	0110 0011	2413.13	2445.4	0.0	0.1	12.6	2446.4	-1.1

ORIGINAL PAGE IS OF POOR QUALITY

IS-236 THEMATIC MAPPER MUX UNIT TEST MODEL .. FLT. S/N 3 PAGE 104

981/11/30 10:20:05 FINALITY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] 10/30/81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
158	0110 0010	2428.75	2459.4	-2.3	0.2	14.0	2462.3	-2.9
159	0110 0001	2444.38	2479.4	-0.1	-0.1	20.0	2478.1	1.3
160	0110 0000	2460.00	2484.9	-0.2	-0.2	[illegible]	2493.9	-9.0
161	0101 1111	2475.63	2504.0	0.1	0.0	19.1	2509.8	-5.8
162	0101 1110	2491.25	2512.7	0.6	0.6	8.6	2525.6	-13.0
163	0101 1101	2506.88	2539.3	-0.1	0.0	26.6	2541.5	-2.2
164	0101 1100	2522.50	2552.7	-0.1	-0.1	13.4	2557.3	4.6
165	0101 1011	2538.13	2571.3	-0.0	0.0	18.6	2573.1	-1.8
166	0101 1010	2553.75	2580.7	-0.1	-0.1	9.4	2589.0	-8.3
167	0101 1001	2569.38	2606.3	-0.1	0.1	25.6	2604.8	1.5
168	0101 1000	2585.00	2612.9	-0.1	0.0	6.6	2620.6	-7.8
169	0101 0111	2600.63	2631.1	-0.1	-0.1	18.3	2636.5	-5.3
170	0101 0110	2616.25	2641.1	0.6	-0.0	9.9	2652.3	-11.2
171	0101 0101	2631.88	2666.0	0.0	0.1	24.9	2668.1	-2.2
172	0101 0100	2647.50	2682.5	-0.1	0.3	16.5	2684.0	-1.5
173	0101 0011	2663.13	2698.1	-0.1	-0.1	15.6	2699.8	-1.7
174	0101 0010	2678.75	2710.5	0.0	-0.0	12.4	2715.6	-5.1
175	0101 0001	2694.38	2731.6	0.1	0.1	21.1	2731.5	0.1
176	0101 0000	2710.00	2745.5	0.1	0.1	13.9	2747.3	-1.9
177	0100 1111	2725.63	2756.8	-0.1	0.1	11.3	2763.2	-6.4
178	0100 1110	2741.25	2766.2	-0.6	-0.6	9.4	2779.0	-12.8
179	0100 1101	2756.88	2792.3	-0.0	-0.2	26.1	2794.8	-2.5
180	0100 1100	2772.50	2809.0	0.0	0.0	16.7	2810.7	-1.7
181	0100 1011	2788.13	2824.0	0.0	0.1	15.6	2826.5	-2.5
182	0100 1010	2803.75	2834.3	0.1	0.2	10.3	2842.3	-8.0
183	0100 100	2819.38	2859.1	0.0	0.0	24.8	2858.2	0.9

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL .. FLT. S/N 3 . PAGE 104

1981/11/30 10:20:55 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] A/D THRESHOLD TEST COMMAND-- [illegible]

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV). LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE MEANT	DEVIATION
184	0100 1000	2835.00	2868.2	-0.0	-0.1	9.1	2874.0	[illegible]
185	0100 0111	2850.63	2883.7	0.0	0.1	15.5	2889.8	[illegible]
186	0100 0110	2866.25	2894.0	0.0	0.6	10.3	2905.7	-11.6
187	0100 0101	2881.88	2919.0	-0.2	-0.1	24.9	2921.5	-2.6
188	0100 0100	2897.50	2938.4	-0.3	-0.2	19.4	2937.4	1.0
189	0100 0011	2913.13	2950.8	0.1	0.1	12.4	2953.2	-2.4
190	0100 0010	2928.75	2963.9	0.1	0.2	13.1	2969.0	-5.1
191	0100 0001	2944.38	2984.6	-0.2	-0.1	20.7	2984.9	-0.3
192	0100 0000	2960.00	3001.3	-0.3	-0.2	16.7	3000.7	0.6
193	0011 1111	2975.63	3012.7	0.0	0.6	11.4	3016.5	-3.8
194	0011 1110	2991.25	3021.3	1.9	1.9	8.6	3032.4	-11.1
195	0011 1101	3006.88	3048.2	0.1	-0.0	24.9	3048.2	-0.0
196	0011 1100	3022.50	3060.8	-0.1	-0.2	12.6	3064.0	-3.2
197	0011 1011	3038.13	3080.4	-0.1	-0.1	19.6	3079.9	0.5
198	0011 1010	3053.75	3089.3	-0.2	-0.0	8.9	3095.7	[illegible]
199	0011 1001	3069.38	3115.5	-0.0	0.1	26.2	3111.6	3.9
200	0011 1000	3085.00	3118.2	0.1	-0.0	2.8	3127.4	-9.2
201	0011 0111	3100.63	3140.6	-0.2	0.0	22.3	3143.2	-2.7
202	0011 0110	3116.25	3150.9	-0.7	-0.6	10.4	3159.1	-8.1
203	0011 0101	3131.88	3175.6	0.1	0.1	24.6	3174.9	0.7
204	0011 0100	3147.50	3191.3	0.2	0.2	15.7	3190.7	0.5
205	0011 0011	3163.13	3208.0	-0.1	0.0	16.7	3206.6	1.4
206	0011 0010	3178.75	3220.3	0.1	0.0	12.3	3222.4	-2.1
207	0011 0001	3194.38	3241.8	-0.1	-0.1	21.5	3238.2	3.6
208	0011 0000	3210.00	3254.8	0.1	0.2	13.0	3254.1	0.7
209	0010 1111	3225.63	3267.1	0.0	0.2	12.3	3269.9	2.8

HAC TEST S27

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 10[illegible]

1981/11/30 10:20:55 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] A/D THRESHOLD TEST [illegible]

HAC TEST 527

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
210	0010 1110	3241.25	3278.3	-2.4	-2.4	11.1	3285.8	-7.5
211	0010 1101	3256.88	3303.1	-0.3	-0.1	24.8	3301.6	1.5
212	0010 1100	3272.50	3318.3	0.1	0.0	15.2	3317.4	0.9
213	0010 1011	3288.13	3335.0	0.1	0.2	16.6	3333.3	1.7
214	0010 1010	3303.75	3345.0	0.0	-0.1	10.0	3349.1	-4.1
215	0010 1001	3319.38	3370.5	-0.3	0.0	25.5	3364.9	5.5
216	0010 1000	3335.00	3375.7	0.0	0.0	5.2	3380.8	-5.1
217	0010 0111	3350.63	3395.4	0.1	0.1	19.7	3396.6	-1.2
218	0010 0110	3366.25	3405.6	0.4	0.6	10.2	3412.4	-6.9
219	0010 0101	3381.88	3430.9	-0.2	0.0	25.3	3428.3	2.6
220	0010 0100	3397.50	3449.7	-0.5	-0.4	18.8	3444.1	5.6
221	0010 0011	3413.13	3463.2	-0.1	-0.1	13.5	3460.0	3.2
222	0010 0010	3428.75	3475.8	0.3	0.1	12.6	3475.8	0.0
223	0010 0001	3444.38	3497.0	0.2	0.2	21.1	3491.6	5.3
224	0010 0000	3460.00	3502.3	-0.3	-0.3	5.3	3507.5	-5.2
225	0001 1111	3475.63	3522.2	-0.3	-0.2	19.9	3523.3	-1.1
226	0001 1110	3491.25	3531.0	1.2	-0.2	8.8	3539.1	-8.1
227	0001 1101	3506.88	3558.5	-0.0	0.1	27.4	3555.0	3.5
228	0001 1100	3522.50	3570.5	-0.1	0.1	12.0	3570.8	-0.3
229	0001 1011	3538.13	3590.5	-0.3	-0.1	19.9	3586.6	3.8
230	0001 1010	3553.75	3598.7	0.1	0.1	8.3	3602.3	-3.7
231	0001 1001	3569.38	3625.8	-0.1	0.1	27.1	3618.3	7.5
232	0001 1000	3585.00	3631.9	-0.1	0.0	6.1	3634.2	-2.2
233	0001 0111	3600.63	3651.1	-0.1	0.1	19.1	3650.0	1.1
234	0001 0110	3616.25	3661.3	-0.8	-0.6	10.2	3665.8	-4.5
235	0001 0101	3631.88	3686.9	-0.2	-0.2	25.6	3681.7	5.2
236	0001 0100	3647.50	3702.4	0.1	0.4	15.5	3697.5	4.9

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 106

1981/11/30 10:20:55 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-14 A/D THRESHOLD TEST (BAND- 3 - SIMPSON-2)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
237	0001 1110	3663.13	3719.1	-0.1	0.3	16.7	3713.3	5.8
238	0001 0110	3678.75	3731.1	0.2	0.2	11.9	3729.2	1.9
239	0001 0001	3694.38	3755.1	-1.9	-1.3	24.9	3745.0	10.1
240	0001 0000	3710.00	3769.8	0.2	0.0	14.6	3760.8	8.9
241	0000 1111	3725.63	3778.8	0.1	0.2	9.1	3776.7	2.1
242	0000 1110	3741.25	3787.5	-0.1	1.9	8.7	3792.5	-5.0
243	0000 1101	3756.88	3815.7	-0.5	-0.4	28.1	3808.4	7.3
244	0000 1100	3772.50	3831.1	-0.1	-0.0	15.4	3824.2	6.9
245	0000 1011	3788.13	3847.3	0.0	0.2	16.2	3840.0	7.3
246	0000 1010	3803.75	3856.9	-0.1	0.1	9.6	3855.9	1.0
247	0000 1001	3819.38	3883.0	-0.1	0.1	26.1	3871.7	11.3
248	0000 1000	3835.00	3892.4	-0.4	-0.3	9.4	3887.5	4.9
249	0000 0111	3850.63	3908.3	-0.1	0.0	15.8	3903.4	4.9
250	0000 0110	3866.25	3918.2	0.6	0.6	9.9	3919.2	-1.0
251	0000 0101	3881.88	3944.3	-0.4	0.1	26.1	3935.0	9.2
252	0000 0100	3897.50	3963.2	-0.5	-0.4	18.9	3950.9	12.3
253	0000 0011	3913.13	3976.6	-0.2	-0.1	13.4	3966.7	9.9
254	0000 0010	3928.75	3988.9	0.1	0.0	12.2	3982.6	6.3
255	0000 0001	3944.38	4012.7	-0.2	-1.3	23.8	3998.4	14.3

HAC TEST 527

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27

NOV 30 '81

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 107

1981/11/30 10:27:19 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 1, SENSOR=4)

S U M M A R Y

CHECK 1) RMS ERROR, 2) THRESHOLD INCREMENT(+/- 0.0 <= THRH INC <= 31.2)
THE REMAINING DATA ARE FOR INFORMATION ONLY

BEST FIT STRAIGHT LINE IS: Y =15.838X -39.0MV

DEVIATION OF SLOPE FROM IDEAL IS: 1.364%
OFFSET IS:-39.0MV
COEFFICIENT OF DETERMINATION IS: R**2= .99998130
ANALOG INPUT DURING DC RESTORE IS:64.5MV

RMS ERROR = 4.952MV REQMT: RMS ERROR <=7.81[illegible]MV

THRESHOLD INCREMENT MEASUREMENT

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
27.6MV	211	15.909MV	2.9MV	32	5.978MV

LOWER LIMIT AT OUTPUT LEVELS RATIO = 1 : 1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
0.3MV	232	-0.040MV	-0.4MV	239	.163MV

UPPER LIMIT AT OUTPUT LEVELS RATIO = 1 : 1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
0.4MV	246	-0.003MV	-0.3MV	128	.160MV

TEST PASSED

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL .. FLT. S/N 3 PAGE 108

1981/11/30 10:27:32 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] A/D THRESHOLD TEST [illegible]

HAC TEST 527

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO- 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
THE FOLLOWING DATA ARE FOR INFORMATION ONLY								
1	1111 1111	-24.375	-28.1	-0.9	0.2		-23.2	-4.9
2	1111 1110	-8.750	-17.3	-0.3	-0.2	10.8	-7.3	-10.0
3	1111 1101	6.875	8.0	-0.0	0.0	25.3	8.5	-0.5
4	1111 1100	22.500	20.6	0.1	0.1	12.7	24.3	-3.7
5	1111 1011	38.125	38.5	0.1	0.1	17.8	40.2	-1.7
6	1111 1010	53.750	50.7	-0.1	-0.1	12.2	56.0	-5.3
7	1111 1001	69.375	75.1	-0.1	-0.1	24.4	71.9	3.3
8	1111 1000	85.000	78.9	0.1	-0.0	3.7	87.7	-8.8
9	1111 0111	100.625	99.9	0.0	0.2	21.0	103.3	-3.6
10	1111 0110	116.250	112.8	-0.2	-0.1	12.9	119.4	-6.6
11	1111 0101	131.875	136.1	-0.1	-0.1	23.3	135.2	0.9
12	1111 0100	147.500	152.1	-0.0	-0.1	15.9	151.0	1.0
13	1111 0011	163.125	166.3	0.1	0.0	14.2	166.9	-0.6
14	1111 0010	178.750	181.3	-0.0	0.0	15.1	182.7	-1.4
15	1111 0001	194.375	202.9	-0.1	0.0	21.6	198.6	4.3
16	1111 0000	210.000	212.4	-0.2	-0.2	9.5	214.4	-2.0
17	1110 1111	225.625	227.8	-0.1	0.0	15.4	230.2	-2.4
18	1110 1110	241.250	238.4	0.1	0.1	10.6	246.1	-7.6
19	1110 1101	256.875	263.7	-0.1	0.0	25.3	261.9	1.8
20	1110 1100	272.500	279.4	-0.2	-0.0	15.7	277.7	1.7
21	1110 1011	288.125	294.3	-0.1	-0.1	14.9	293.6	0.8
22	1110 1010	303.750	306.9	0.0	0.0	12.6	309.4	-2.5
23	1110 1001	319.375	330.6	0.0	0.1	23.7	325.3	5.4
24	1110 1000	335.000	338.1	-0.2	-0.0	7.4	341.1	-3.0
25	1110 0111	350.625	355.7	-0.1	-0.1	17.6	356.9	-1.3

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 109

1981/11/30 10:27:32 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

58-55-58-55-68 A/D THRESHOLD TEST <FRAND-- 1 -- 1SEP1980--> NOV 30 '81

HAC TEST S27

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
26	1110 0110	366.250	368.5	-0.1	-0.0	12.8	372.8	-4.3
27	1110 0101	381.875	391.6	-0.1	-0.0	23.1	388.6	3.0
28	1110 0100	397.500	410.5	0.1	0.2	18.9	404.5	6.0
29	1110 0011	413.125	421.9	-0.1	-0.0	11.4	420.3	1.6
30	1110 0010	428.750	437.1	-0.2	-0.2	15.2	436.1	0.9
31	1110 0001	444.375	458.4	-0.1	-0.0	21.3	452.0	6.4
32	1110 0000	460.000	461.3	-0.1	-0.1	2.9	467.8	-6.5
33	1101 1111	475.625	482.6	-0.1	0.0	21.3	483.6	-1.1
34	1101 1110	491.250	492.6	-0.1	-0.0	10.0	499.5	-6.9
35	1101 1101	506.875	518.5	-0.1	-0.1	25.9	515.3	3.2
36	1101 1100	522.500	531.2	0.1	0.0	12.7	531.2	0.1
37	1101 1011	538.125	549.1	-0.0	0.1	17.8	547.0	2.1
38	1101 1010	553.750	560.5	-0.1	0.0	11.4	562.8	-2.3
39	1101 1001	569.375	585.2	-0.1	-0.1	24.6	578.7	6.5
40	1101 1000	585.000	591.3	-0.1	-0.1	6.1	594.5	-3.2
41	1101 0111	600.625	610.1	0.0	0.0	18.8	610.3	-0.2
42	1101 0110	616.250	622.1	-0.0	0.0	12.0	626.2	-4.1
43	1101 0101	631.875	646.0	-0.1	-0.0	23.8	642.0	3.9
44	1101 0100	647.500	662.1	-0.2	-0.2	16.2	657.9	4.3
45	1101 0011	663.125	676.2	-0.0	0.0	14.1	673.7	2.5
46	1101 0010	678.750	690.5	0.2	0.2	14.2	689.5	0.9
47	1101 0001	694.375	712.3	0.1	0.1	21.9	705.4	6.9
48	1101 0000	710.000	725.1	-0.1	-0.1	12.8	721.2	3.9
49	1100 1111	725.625	737.1	-0.0	-0.1	12.0	737.1	0.1
50	1100 1110	741.250	747.2	-0.1	-0.1	10.1	752.9	-5.7
51	1100 1101	756.875	772.9	-0.0	0.1	25.6	768.7	4.1

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 110
1981/11/30 10:27:32 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.3.5-8 A/D THRESHOLD TEST (BAND= 1, SENSOR=1)

HAC TEST 527

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
52	1100 1100	772.500	788.7	-0.2	-0.0	15.8	784.6	4.1
53	1100 1011	788.125	803.3	-0.2	-0.1	14.6	800.4	2.9
54	1100 1010	803.750	815.2	-0.0	-0.1	11.9	816.2	-1.0
55	1100 1001	819.375	839.0	0.1	0.1	23.8	832.1	6.9
56	1100 1000	835.000	849.4	0.0	0.0	10.3	847.9	1.4
57	1100 0111	850.625	863.9	-0.1	0.0	14.5	863.8	0.1
58	1100 0110	866.250	876.1	0.0	-0.0	12.2	879.6	-3.5
59	1100 0101	881.875	899.6	0.0	0.0	23.5	895.4	4.1
60	1100 0100	897.500	918.7	0.1	0.1	19.1	911.3	7.3
61	1100 0011	913.125	929.6	0.0	0.0	10.8	927.1	2.4
62	1100 0010	928.750	944.0	-0.0	0.0	14.4	942.9	1.1
63	1100 0001	944.375	965.6	-0.0	-0.1	21.6	958.8	6.8
64	1100 0000	960.000	977.9	0.2	0.0	12.3	974.6	3.3
65	1011 1111	975.625	993.1	0.1	0.1	15.2	990.5	2.7
66	1011 1110	991.250	1002.5	-0.2	0.0	9.3	1006.3	-3.8
67	1011 1101	1006.88	1028.6	-0.1	-0.2	26.2	1022.1	6.5
68	1011 1100	1022.50	1040.5	-0.1	-0.1	11.9	1038.0	2.6
69	1011 1011	1038.13	1059.4	0.2	0.1	18.9	1053.8	5.6
70	1011 1010	1053.75	1069.6	0.1	0.1	10.2	1069.7	-0.0
71	1011 1001	1069.38	1094.8	-0.1	-0.1	25.1	1085.5	9.3
72	1011 1000	1085.00	1097.9	-0.1	-0.1	3.1	1101.3	-3.4
73	1011 0111	1100.63	1119.8	0.1	0.0	21.9	1117.2	2.7
74	1011 0110	1116.25	1131.0	0.1	0.2	11.1	1133.0	-2.0
75	1011 0101	1131.88	1154.9	0.0	0.1	24.0	1148.8	6.1
76	1011 0100	1147.50	1170.6	-0.1	-0.1	15.7	1164.7	5.9
77	1011 0011	1163.13	1185.8	-0.0	-0.1	15.2	1180.5	5.3
78	1011 0010	1178.75	1199.0	0.0	0.0	13.3	1196.4	2.7

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 111
1981/11/30 10:27:32 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.18.5-13 A/D THRESHOLD TEST <SAMPLE> 1 - SEGMENTS - 4

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
79	1011 0001	1194.38	1221.3	0.0	0.1	22.2	1212.2	9.1
80	1011 0000	1210.00	1233.4	-0.2	0.0	12.1	1228.0	5.4
81	1010 1111	1225.63	1246.0	-0.1	-0.1	12.6	1243.9	2.1
82	1010 1110	1241.25	1255.4	0.1	-0.0	9.4	1259.7	-4.3
83	1010 1101	1256.88	1281.2	0.2	0.2	25.8	1275.5	5.7
84	1010 1100	1272.50	1296.0	0.2	0.2	14.8	1291.4	4.7
85	1010 1011	1288.13	1312.7	-0.1	-0.1	16.1	1307.2	4.9
86	1010 1010	1303.75	1323.3	-0.2	-0.1	11.1	1323.1	0.2
87	1010 1001	1319.38	1347.3	0.1	-0.0	24.0	1338.9	8.4
88	1010 1000	1335.00	1354.6	0.1	0.2	7.3	1354.7	-0.1
89	1010 0111	1350.63	1372.3	0.0	0.1	17.7	1370.6	1.8
90	1010 0110	1366.25	1383.8	-0.0	0.0	11.5	1386.4	-2.6
91	1010 0101	1381.88	1407.7	-0.1	-0.2	23.9	1402.3	5.4
92	1010 0100	1397.50	1425.8	0.1	0.1	18.1	1418.1	7.7
93	1010 0011	1413.13	1438.2	0.1	0.1	12.4	1433.9	4.3
94	1010 0010	1428.75	1451.9	-0.2	-0.2	13.7	1449.8	2.2
95	1010 0001	1444.38	1473.8	-0.1	-0.1	21.9	1465.6	8.2
96	1010 0000	1460.00	1481.0	0.0	-0.1	7.1	1481.4	-0.5
97	1001 1111	1475.63	1497.8	0.1	0.1	16.8	1497.3	0.5
98	1001 1110	1491.25	1506.7	0.0	0.0	8.9	1513.1	-6.4
99	1001 1101	1506.88	1533.4	-0.1	0.0	26.7	1529.0	4.5
100	1001 1100	1522.50	1545.2	-0.1	-0.1	11.8	1544.8	0.4
101	1001 1011	1538.13	1564.1	0.1	-0.0	18.9	1560.6	3.5
102	1001 1010	1553.75	1573.7	0.1	0.1	9.6	1576.5	-2.8
103	1001 1001	1569.38	1599.1	0.0	0.1	25.4	1592.3	6.8
104	1001 1000	1585.00	1604.5	-0.2	-0.2	5.3	1608.1	-3.7

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL .. FLT. S/N 3 PAGE 112

1981/11/30 10:27:32 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] THRESHOLD BEST CHARACTERISTICS

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
105	1001 0111	1600.63	1624.4	-0.1	-0.1	20.0	1624.0	0.4
106	1001 0110	1616.25	1635.0	0.1	0.1	10.6	1639.8	-4.8
107	1001 0101	1631.88	1659.5	0.2	0.3	24.5	1663.7	3.9
108	1001 0100	1647.50	1675.1	-0.1	0.0	15.6	1671.5	[illegible]
109	1001 0011	1663.13	1690.4	-0.2	-0.1	15.3	1687.3	3.1
110	1001 0010	1678.75	1703.0	0.0	0.1	12.6	1703.2	-0.2
111	1001 0001	1694.38	1725.8	0.0	0.1	22.8	1719.0	6.8
112	1001 0000	1710.00	1740.8	0.2	0.3	15.0	1734.8	6.0
113	1000 1111	1725.63	1750.4	-0.2	-0.1	9.6	1750.7	-0.3
114	1000 1110	1741.25	1759.4	-0.1	-0.1	9.0	1766.5	-7.1
115	1000 1101	1756.88	1786.1	0.1	0.0	26.6	1782.4	3.7
116	1000 1100	1772.50	1800.6	0.1	0.1	14.5	1798.2	2.4
117	1000 1011	1788.13	1816.5	-0.0	0.1	15.9	1814.0	[illegible]
118	1000 1010	1803.75	1827.1	-0.1	-0.2	10.6	1829.9	-2.[illegible]
119	1000 1001	1819.38	1851.6	-0.1	-0.1	24.5	1845.7	[illegible]
120	1000 1000	1835.00	1862.5	0.2	0.2	10.8	1861.6	0.9
121	1000 0111	1850.63	1876.6	0.1	0.1	14.2	1877.4	-0.8
122	1000 0110	1866.25	1887.7	-0.0	0.0	11.1	[illegible]	[illegible]
123	1000 0101	1881.88	1912.2	-0.1	-0.1	24.5	1909.1	[illegible]
124	1000 0100	1897.50	1930.4	0.0	-0.1	18.2	1924.9	[illegible]
125	1000 0011	1913.13	1942.5	0.1	0.1	12.1	1940.7	1.7
126	1000 0010	1928.75	1955.5	0.2	0.1	13.0	1956.6	-1.0
127	1000 0001	1944.38	1978.1	-0.1	-0.1	22.5	1972.4	[illegible]
128	1000 0000	1960.00	1987.5	-0.3	-0.3	9.4	1988.3	-0.7
129	0111 1111	1975.63	2002.5	0.0	0.0	14.9	2004.1	-1.6
130	0111 1110	1991.25	2009.4	0.1	0.2	6.9	2019.9	-10.5

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 113
1981/11/30 10:27:32 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
[illegible] NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
131	0111 1101	2006.88	2034.9	0.0	0.2	25.5	2037.8	-0.8
132	0111 1100	2022.50	2048.7	-0.1	-0.1	13.8	2041.6	-2.9
133	0111 1011	2038.13	2067.3	-0.1	-0.1	18.6	2067.4	-0.1
134	0111 1010	2053.75	2077.3	0.1	0.2	10.0	2083.3	-6.0
135	0111 1001	2069.38	2101.9	0.1	0.1	24.6	2099.1	2.8
136	0111 1000	2085.00	2106.3	-0.2	-0.0	4.4	2115.0	-8.7
137	0111 0111	2100.63	2127.2	-0.1	-0.1	20.9	2130.8	-3.6
138	0111 0110	2116.25	2138.1	0.1	-0.1	10.8	2146.6	-8.6
139	0111 0101	2131.88	2161.6	0.1	0.1	23.5	2162.5	-0.9
140	0111 0100	2147.50	2179.1	0.2	0.3	17.4	2178.3	0.8
141	0111 0011	2163.13	2193.8	-0.1	-0.2	14.7	2194.2	-0.3
142	0111 0010	2178.75	2207.6	-0.3	-0.2	13.8	2210.0	-2.4
143	0111 0001	2194.38	2227.4	0.1	0.0	19.7	2225.8	1.5
144	0111 0000	2210.00	2238.0	0.3	0.2	10.6	2241.7	-3.7
145	0110 1111	2225.63	2253.0	0.0	0.1	15.0	2257.5	-4.5
146	0110 1110	2241.25	2262.5	-0.2	-0.2	9.5	2273.3	-10.8
147	0110 1101	2256.88	2287.9	0.0	-0.1	25.4	2289.2	-1.3
148	0110 1100	2272.50	2304.6	0.2	0.2	16.7	2305.0	-0.4
149	0110 1011	2288.13	2319.9	0.1	0.1	15.3	2320.9	-1.0
150	0110 1010	2303.75	2331.1	-0.1	0.1	11.2	2336.7	-5.6
151	0110 1001	2319.38	2354.5	-0.1	-0.1	23.4	2352.5	2.0
152	0110 1000	2335.00	2361.3	-0.0	-0.2	6.7	2348.4	-7.1
153	0110 0111	2350.63	2379.8	0.1	0.1	18.5	2384.2	-4.4
154	0110 0110	2366.25	2390.8	0.1	0.1	11.0	2400.0	-9.2
155	0110 0101	2381.88	2414.4	-0.1	-0.2	23.6	2415.9	-1.4
156	0110 0100	2397.50	2434.7	-0.3	-0.3	20.2	2431.7	2.9
157	0110 0011	2413.13	2446.3	0.1	-0.0	11.6	2447.6	-1.3

ORIGINAL PAGE IS OF POOR QUALITY

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
158	0110 0010	2428.75	2460.8	0.1	0.2	14.5	2463.4	-2.
159	0110 0001	2444.38	2481.5	0.0	0.1	20.6	2479.2	2.2
160	0110 0000	2460.00	2486.2	-0.2	-0.2	4.7	2491.1	-8.9
161	0101 1111	2475.63	2505.3	-0.2	-0.1	19.1	2510.9	-5.6
162	0101 1110	2491.25	2513.9	0.1	0.1	8.6	2526.8	-12.9
163	0101 1101	2506.88	2540.4	0.1	0.3	26.4	2542.6	-2.2
164	0101 1100	2522.50	2553.9	-0.1	0.0	13.5	2558.4	-4.5
165	0101 1011	2538.13	2572.3	-0.1	-0.1	18.3	2574.3	-2.0
166	0101 1010	2553.75	2581.7	0.0	-0.2	9.5	2590.1	-8.4
167	0101 1001	2569.38	2606.6	0.1	0.2	24.9	2605.9	0.7
168	0101 1000	2585.00	2614.0	-0.0	0.1	7.4	2621.8	-7.8
169	0101 0111	2600.63	2632.7	-0.2	-0.2	18.2	2637.6	-5.4
170	0101 0110	2616.25	2642.5	-0.2	-0.2	10.3	2653.5	-10.9
171	0101 0101	2631.88	2666.6	0.2	-0.0	24.1	2669.3	-2.7
172	0101 0100	2647.50	2684.1	0.2	0.3	17.5	2685.1	-1.0
173	0101 0011	2663.13	2698.9	0.0	0.2	14.7	2701.0	-2.1
174	0101 0010	2678.75	2712.0	-0.1	-0.2	13.1	2716.8	-4.8
175	0101 0001	2694.38	2734.0	-0.0	-0.2	22.0	2732.6	1.3
176	0101 0000	2710.00	2746.6	0.3	0.2	12.6	2748.5	-1.9
177	0100 1111	2725.63	2757.8	0.3	0.2	11.2	2764.3	-6.5
178	0100 1110	2741.25	2767.0	-0.2	-0.1	9.2	2780.2	-13.2
179	0100 1101	2756.88	2793.8	-0.2	-0.3	26.7	2796.0	-2.2
180	0100 1100	2772.50	2810.2	0.0	-0.2	16.4	2811.8	-1.6
181	0100 1011	2788.13	2824.9	0.1	0.1	14.7	2827.7	-2.7
182	0100 1010	2803.75	2838.3	-0.1	0.3	10.4	2843.5	-8.2
183	0100 1001	2819.38	2859.6	-0.2	-0.2	24.2	2859.4	0.2

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL FLT. S/N 3 PAGE 1[illegible]

1981/11/30 10:27:32 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible]

HAC TEST 527 NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
184	0100 1000	2835.00	2870.1	-0.3	-0.2	10.5	2875.2	-5.1
185	0100 0111	2850.63	2884.8	0.2	-0.0	14.6	2891.0	-6.3
186	0100 0110	2866.25	2895.5	0.1	0.1	10.7	2906.9	-11.4
187	0100 0101	2881.88	2919.8	-0.1	-0.0	24.4	2922.7	-2.9
188	0100 0100	2897.50	2940.0	-0.2	-0.2	20.2	2938.5	1.5
189	0100 0011	2913.13	2951.9	-0.0	-0.1	11.9	2954.4	-2.4
190	0100 0010	2928.75	2965.4	0.1	0.2	13.4	2970.2	-4.9
191	0100 0001	2944.38	2986.7	0.2	0.2	21.3	2986.1	0.6
192	0100 0000	2960.00	3002.8	-0.4	0.0	16.1	3001.9	0.9
193	0011 1111	2975.63	3013.9	-0.1	-0.1	11.0	3017.7	-3.9
194	0011 1110	2991.25	3024.6	-0.0	-0.3	10.7	3033.6	-9.0
195	0011 1101	3006.88	3049.7	0.2	0.2	25.1	3049.4	0.3
196	0011 1100	3022.50	3061.9	0.0	0.2	12.2	3065.2	-3.3
197	0011 1011	3038.13	3081.4	-0.2	-0.2	19.5	3081.1	0.3
198	0011 1010	3053.75	3090.3	-0.3	-0.2	9.0	3096.9	-6.6
199	0011 1001	3069.38	3115.8	0.2	0.1	25.4	3112.8	3.0
200	0011 1000	3085.00	3119.5	0.2	0.2	3.3	3128.6	-9.1
201	0011 0111	3100.63	3141.4	-0.1	0.3	21.8	3144.4	-3.0
202	0011 0110	3116.25	3151.7	-0.3	-0.3	10.3	3160.3	-8.5
203	0011 0101	3131.88	3176.8	-0.1	-0.3	25.0	3176.1	0.6
204	0011 0100	3147.50	3193.0	0.1	0.1	16.2	3192.0	1.1
205	0011 0011	3163.13	3208.9	0.2	0.2	15.9	3207.8	1.1
206	0011 0010	3178.75	3221.5	-0.2	-0.0	12.6	3223.6	-2.1
207	0011 0001	3194.38	3244.0	-0.3	-0.1	22.5	3239.5	4.6
208	0011 0000	3210.00	3256.4	-0.1	-0.2	12.3	3255.3	1.0
209	0010 1111	3225.63	3268.2	0.1	0.2	11.8	3271.1	-2.9

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL FLT. S/N 3 PAGE 11A
1981/11/30 10:27:32 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
[illegible]

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
210	0010 1110	3241.25	3277.1	-0.0	0.4	8.9	3287.0	-7.9
211	0010 1101	3256.88	3304.7	-0.3	-0.2	27.6	3307.8	1.9
212	0010 1100	3272.50	3319.8	-0.3	-0.2	15.1	3318.7	1.2
213	0010 1011	3288.13	3335.9	0.2	0.0	16.1	3334.5	1.4
214	0010 1010	3303.75	3346.0	0.1	0.1	10.1	3330.3	-4.9
215	0010 1001	3319.38	3370.6	-0.1	0.3	24.6	3366.2	4.4
216	0010 1000	3335.00	3377.5	-0.2	-0.3	6.9	3382.0	-4.5
217	0010 0111	3350.63	3396.5	-0.1	-0.2	19.0	3397.8	-1.4
218	0010 0110	3366.25	3406.7	0.2	0.2	10.2	3413.7	-6.9
219	0010 0101	3381.88	3431.9	0.1	0.2	25.2	3429.5	2.4
220	0010 0100	3397.50	3451.3	-0.3	0.0	19.4	3445.3	6.0
221	0010 0011	3413.13	3464.2	-0.3	-0.1	12.9	3461.2	3.0
222	0010 0010	3428.75	3477.5	-0.1	-0.3	13.3	3477.0	0.5
223	0010 0001	3444.38	3499.3	0.0	0.2	21.7	3492.9	6.4
224	0010 0000	3460.00	3506.8	-0.1	0.3	7.6	3508.7	-1.9
225	0001 1111	3475.63	3523.3	-0.3	-0.3	16.4	3524.6	-1.3
226	0001 1110	3491.25	3533.5	-0.4	-0.2	10.2	3540.4	-6.9
227	0001 1101	3506.88	3560.1	0.0	0.0	26.6	3556.2	3.9
228	0001 1100	3522.50	3571.8	0.2	0.3	11.6	3572.1	-0.3
229	0001 1011	3538.13	3591.1	-0.1	0.3	19.4	3587.9	3.2
230	0001 1010	3553.75	3599.9	-0.3	-0.3	8.8	3613.7	-13.7
231	0001 1001	3569.38	3626.3	-0.2	-0.2	26.4	3619.6	6.7
232	0001 1000	3585.00	3632.8	0.3	0.4	6.5	3635.4	-2.6
233	0001 0111	3600.63	3651.8	0.1	0.2	19.0	3651.3	0.6
234	0001 0110	3616.25	3662.0	-0.3	-0.0	10.2	3667.1	-5.1
235	0001 0101	3631.88	3688.4	-0.4	-0.3	26.4	[illegible]	[illegible]
236	0001 0100	3647.50	3704.3	-0.1	-0.2	16.0	3698.8	5.5

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL .. FLT. S/N 3 PAGE 117

1981/11/30 10:27:32 SENSITIVITY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] NOV 30 '81

HAC TEST S27

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
237	0001 0011	3663.13	3720.1	0.1	0.2	15.7	3714.6	5.4
238	0001 0010	3678.75	3732.0	-0.1	0.2	11.9	3730.4	1.5
239	0001 0001	3694.38	3755.4	-0.4	-0.3	23.4	3746.3	9.1
240	0001 0000	3710.00	3771.0	-0.4	-0.3	15.6	3762.1	8.9
241	0000 1111	3725.63	3779.7	0.2	-0.0	8.7	3778.0	1.7
242	0000 1110	3741.25	3790.7	0.2	0.2	11.0	3793.8	-3.1
243	0000 1101	3756.88	3817.0	-0.1	0.2	26.3	3809.6	7.4
244	0000 1100	3772.50	3832.2	-0.3	-0.2	15.1	3825.5	6.7
245	0000 1011	3788.13	3848.3	-0.1	-0.2	16.1	3841.3	7.0
246	0000 1010	3803.75	3857.6	0.3	0.4	9.4	3857.2	0.4
247	0000 1001	3819.38	3883.1	0.1	0.3	25.4	3873.0	10.1
248	0000 1000	3835.00	3894.2	-0.4	-0.1	11.1	3888.8	5.4
249	0000 0111	3850.63	3909.1	-0.3	-0.1	14.8	3904.7	4.4
250	0000 0110	3866.25	3919.4	-0.1	-0.3	10.3	3920.5	-1.1
251	0000 0101	3881.88	3945.5	0.2	0.2	26.1	3936.3	9.2
252	0000 0100	3897.50	3964.3	-0.1	0.2	18.8	3952.2	12.1
253	0000 0011	3913.13	3977.6	-0.3	-0.3	13.2	3968.0	9.6
254	0000 0010	3928.75	3990.3	-0.4	-0.2	12.7	3983.9	6.4
255	0000 0001	3944.38	4012.7	0.1	0.0	22.4	3999.7	13.1

ORIGINAL PAGE IS OF POOR QUALITY

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST 527

NOV 30 '81

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 118
1981/11/30 10:33:56 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.3.5-8 A/D THRESHOLD TEST (BAND-- 1 , SENSOR--)

S U M M A R Y

HECK 1) RMS ERROR, 2) THRESHOLD INCREMENT(+/- 0.0 = THRH INC <= 31.2)
HE REMAINING DATA ARE FOR INFORMATION ONLY

BEST FIT STRAIGHT LINE IS: Y =15.847X -37.2MV

DEVIATION OF SLOPE FROM IDEAL IS: 1.419%
OFFSET IS:-37.2MV
COEFFICIENT OF DETERMINATION IS: R**2= .99997850
ANALOG INPUT DURING DC RESTORE IS:64.4MV

RMS ERROR = 5.343MV REQMT: RMS ERROR <=7.812MV

THRESHOLD INCREMENT MEASUREMENT

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
29.9MV	243	15.918MV	1.4MV	32	6.752MV

LOWER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
1.4MV	242	-0.024MV	-0.3MV	33	.147MV

UPPER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
1.0MV	162	-0.003MV	-1.9MV	168	.174MV

TEST PASSED

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL .. FLT. S/N 3 PAGE 119

1981/11/30 10:34:09 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5—13 A/D THRESHOLD TEST (BAND— 1 — SENSITIVE—)

HAC TFS(S27

NOV 30 81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS NOMINAL	LOWER	RATIO- 1 :1 UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
THE FOLLOWING DATA ARE FOR INFORMATION ONLY								
1	1111 1111	-24.375	-26.2	-0.3	0.0		-21.4	-4.8
2	1111 1110	-8.750	-16.8	0.0	-0.0	9.3	-5.5	-11.3
3	1111 1101	6.875	9.9	0.0	0.1	26.8	10.3	-0.4
4	1111 1100	22.500	22.1	-0.0	0.0	12.1	26.2	-4.1
5	1111 1011	38.125	40.8	-0.3	-0.1	18.7	42.0	-1.2
6	1111 1010	53.750	52.0	-0.1	-0.1	11.2	57.9	-5.9
7	1111 1001	69.375	76.8	0.1	0.2	24.8	73.7	3.1
8	1111 1000	85.000	79.3	0.0	0.0	2.5	89.3	-10.3
9	1111 0111	100.625	102.1	-0.1	0.0	22.8	105.4	-3.3
10	1111 0110	116.250	113.5	-0.1	0.0	11.5	121.2	-7.7
11	1111 0101	131.875	138.1	-0.1	-0.0	24.6	137.1	1.0
12	1111 0100	147.500	153.7	0.1	0.1	15.5	152.9	0.7
13	1111 0011	163.125	168.8	-0.1	0.1	15.1	168.8	0.6
14	1111 0010	178.750	182.6	-0.2	-0.1	13.8	184.6	-2.0
15	1111 0001	194.375	205.2	-0.3	-0.1	22.5	200.5	4.7
16	1111 0000	210.000	214.7	0.1	0.0	9.5	216.4	-1.7
17	1110 1111	225.625	229.9	0.1	0.2	15.2	232.2	-2.3
18	1110 1110	241.250	239.3	0.1	0.1	9.5	248.0	-8.7
19	1110 1101	256.875	266.1	-0.2	-0.1	26.8	263.9	2.3
20	1110 1100	272.500	281.1	-0.0	-0.1	15.0	279.7	1.4
21	1110 1011	288.125	296.6	0.1	0.2	15.4	295.6	1.0
22	1110 1010	303.750	308.5	0.1	0.1	11.9	311.4	-2.9
23	1110 1001	319.375	332.8	-0.1	0.1	24.3	327.2	5.6
24	1110 1000	335.000	339.1	-0.1	-0.1	6.3	343.1	-4.0
25	1110 0111	350.625	357.9	-0.0	-0.1	18.8	358.9	-1.0

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 120
1981/11/30 10:34:09 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.3.5-8 A/D THRESHOLD TEST (BAND-- 1 - SENSOR--)

HAC TEST 527

KA 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
26	1110 0110	366.250	369.5	0.2	0.1	11.6	374.8	-5.3
27	1110 0101	381.875	394.0	-0.2	0.0	24.4	390.6	3.3
28	1110 0100	397.500	412.6	-0.2	-0.1	18.6	406.5	6.1
29	1110 0011	413.125	424.5	-0.1	-0.1	11.9	422.3	2.2
30	1110 0010	428.750	438.4	0.0	-0.0	13.9	438.2	0.3
31	1110 0001	444.375	460.6	0.1	0.2	22.1	454.0	6.6
32	1110 0000	460.000	462.0	-0.0	0.3	1.4	469.9	-7.8
33	1101 1111	475.625	485.1	-0.3	-0.3	23.1	485.7	-0.6
34	1101 1110	491.250	493.7	-0.1	-0.1	8.6	501.6	-7.9
35	1101 1101	506.875	521.1	0.1	0.1	27.4	517.4	3.7
36	1101 1100	522.500	533.2	0.0	0.1	12.1	533.3	-0.0
37	1101 1011	538.125	551.5	-0.0	0.1	18.3	549.1	2.4
38	1101 1010	553.750	562.1	-0.1	-0.0	10.6	564.9	-2.8
39	1101 1001	569.375	587.6	-0.1	-0.1	25.5	580.8	6.8
40	1101 1000	585.000	592.2	0.1	0.1	4.5	596.6	-4.5
41	1101 0111	600.625	612.6	-0.1	0.1	20.4	612.5	0.1
42	1101 0110	616.250	623.6	-0.3	-0.1	11.1	628.3	-4.7
43	1101 0101	631.875	648.7	-0.2	-0.1	25.1	644.2	4.5
44	1101 0100	647.500	664.2	0.1	0.1	15.5	660.0	4.2
45	1101 0011	663.125	678.9	0.1	0.2	14.7	675.9	3.0
46	1101 0010	678.750	692.2	0.2	0.2	13.3	691.7	0.5
47	1101 0001	694.375	715.1	-0.3	-0.2	22.9	707.6	7.5
48	1101 0000	710.000	728.4	-0.0	-0.1	13.3	723.4	5.0
49	1100 1111	725.625	739.6	0.3	0.2	11.2	739.3	0.4
50	1100 1110	741.250	748.7	0.0	0.0	9.0	755.1	-6.4
51	1100 1101	756.875	775.9	-0.2	0.0	27.2	771.0	4.9

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 121

1981/11/30 10:34:09 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] A/D THRESHOLD TEST [illegible]

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
52	1100 1100	772.500	790.9	-0.1	-0.1	15.0	786.8	4.1
53	1100 1011	788.125	806.0	0.0	-0.2	15.0	802.6	3.4
54	1100 1010	803.750	817.3	0.0	0.0	11.3	818.5	-1.2
55	1100 1001	819.375	841.7	0.1	0.2	24.4	834.3	7.4
56	1100 1000	835.000	851.5	-0.2	-0.1	9.7	850.2	1.3
57	1100 0111	850.625	866.8	-0.1	-0.2	15.3	866.0	0.7
58	1100 0110	866.250	877.8	0.0	-0.1	11.0	881.9	-4.1
59	1100 0101	881.875	902.4	0.1	0.3	24.7	897.7	4.7
60	1100 0100	897.500	921.1	0.0	0.2	18.6	913.6	7.5
61	1100 0011	913.125	932.7	-0.2	-0.3	11.6	929.4	3.3
62	1100 0010	928.750	946.0	0.1	-0.1	13.3	945.3	0.7
63	1100 0001	944.375	968.4	0.2	0.2	22.4	961.1	7.3
64	1100 0000	960.000	980.1	0.1	0.1	11.6	977.0	3.1
65	1011 1111	975.625	995.8	-0.1	0.0	15.7	992.9	2.0
66	1011 1110	991.250	1004.0	-0.0	-0.0	8.3	1008.7	-4.6
67	1011 1101	1006.88	1031.8	-0.1	-0.1	27.8	1024.5	7.3
68	1011 1100	1022.50	1042.8	0.1	0.2	11.0	1040.4	2.5
69	1011 1011	1038.13	1061.9	0.0	0.2	19.1	1056.2	5.7
70	1011 1010	1053.75	1072.1	-0.1	-0.1	10.2	1072.0	0.0
71	1011 1001	1069.38	1097.6	-0.1	-0.1	25.5	1087.9	9.7
72	1011 1000	1085.00	1099.1	0.2	0.0	1.5	1103.7	-4.7
73	1011 0111	1100.63	1122.3	0.2	0.1	23.2	1119.6	2.7
74	1011 0110	1116.25	1133.0	-0.2	-0.2	10.6	1135.4	-2.4
75	1011 0101	1131.88	1158.3	-0.1	-0.1	25.3	1151.3	7.0
76	1011 0100	1147.50	1173.3	-0.0	-0.1	15.0	1167.1	6.2
77	1011 0011	1163.13	1188.5	0.2	0.1	15.2	1183.0	5.5
78	1011 0010	1178.75	1201.2	0.1	0.1	12.7	1198.8	2.4

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 122
1981/11/30 10:34:09 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.3.5-8 A/D THRESHOLD TEST (BAND= 1, SENSOR=

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
79	1011 0001	1194.38	1224.1	-0.1	-0.0	22.9	1214.7	9.5
80	1011 0000	1210.00	1236.5	-0.1	-0.1	12.4	1230.[illegible]	6.0
81	1010 1111	1225.63	1248.7	0.1	-0.1	12.2	1246.4	2.3
82	1010 1110	1241.25	1257.2	0.2	0.0	8.5	1262.2	-5.0
83	1010 1101	1256.88	1284.8	-0.1	-0.0	27.6	1273.1	6.8
84	1010 1100	1272.50	1298.9	-0.1	-0.1	14.1	1293.9	5.0
85	1010 1011	1288.13	1314.9	-0.2	-0.2	16.0	1309.7	5.2
86	1010 1010	1303.75	1325.7	0.1	0.0	10.8	1325.6	0.1
87	1010 1001	1319.38	1350.4	0.1	0.1	24.7	1341.4	9.0
88	1010 1000	1335.00	1356.8	-0.1	0.0	6.4	1357.3	-0.5
89	1010 0111	1350.63	1375.2	-0.2	-0.1	18.4	1373.1	2.1
90	1010 0110	1366.25	1385.9	-0.0	-0.2	10.7	1389.0	-3.1
91	1010 0101	1381.88	1411.1	0.2	0.1	25.2	1404.8	6.2
92	1010 0100	1397.50	1428.7	0.1	0.1	17.7	1420.7	8.1
93	1010 0011	1413.13	1441.2	-0.2	-0.1	12.5	1436.5	4.7
94	1010 0010	1428.75	1454.3	-0.2	-0.2	13.1	1452.[illegible]	2.6
95	1010 0001	1444.38	1476.7	0.1	0.0	22.3	1468.2	8.5
96	1010 0000	1460.00	1483.3	0.2	0.1	6.6	1484.1	-0.8
97	1001 1111	1475.63	1500.7	0.0	0.1	17.4	1499.9	0.8
98	1001 1110	1491.25	1508.8	-0.1	-0.2	8.1	1515.8	-7.0
99	1001 1101	1506.88	1537.2	-0.2	-0.2	28.4	1531.6	[illegible].6
100	1001 1100	1522.50	1547.9	0.1	0.0	10.7	1547.4	0.[illegible]
101	1001 1011	1538.13	1566.7	0.2	0.2	18.8	1563.3	3.4
102	1001 1010	1553.75	1576.6	-0.2	0.0	9.8	1579.1	-2.6
103	1001 1001	1569.38	1602.9	-0.3	-0.2	26.3	1595.0	7.9
104	1001 1000	1585.00	1606.1	0.1	-0.0	3.2	1610.8	-4.8

ORIGINAL PAGE IS
OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 123
1981/11/30 10:34:09 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.3.5-8 A/D THRESHOLD TEST (BAND= 1, SENSOR=[illegible]

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
105	1001 0111	1600.63	1627.2	0.2	0.1	21.1	1626.7	0.5
106	1001 0110	1616.25	1637.2	0.0	0.0	10.1	1642.5	-5.3
107	1001 0101	1631.88	1663.5	-0.1	-0.0	26.3	1658.4	5.1
108	1001 0100	1647.50	1678.3	-0.1	-0.2	14.8	1674.2	4.1
109	1001 0011	1663.13	1693.2	0.2	0.0	14.9	1690.1	3.1
110	1001 0010	1678.75	1705.8	0.0	0.1	12.6	1705.9	-0.1
111	1001 0001	1694.38	1728.9	0.1	0.1	23.1	1721.8	7.1
112	1001 0000	1710.00	1744.9	-0.1	-0.1	16.0	1737.6	7.3
113	1000 1111	1725.63	1753.6	-0.2	-0.1	8.7	1753.5	0.1
114	1000 1110	1741.25	1761.4	0.1	0.0	7.8	1769.3	-7.9
115	1000 1101	1756.88	1789.8	0.1	0.1	28.4	1785.1	4.7
116	1000 1100	1772.50	1803.7	-0.1	0.0	13.9	1801.0	2.7
117	1000 1011	1788.13	1819.5	-0.2	-0.1	15.8	1816.8	2.6
118	1000 1010	1803.75	1830.0	0.0	-0.2	10.5	1832.7	-2.7
119	1000 1001	1819.38	1855.4	0.1	-0.0	25.5	1848.5	6.9
120	1000 1000	1835.00	1864.3	0.1	0.1	8.9	1864.4	-0.1
121	1000 0111	1850.63	1879.8	-0.1	-0.1	15.5	1880.2	-3.5
122	1000 0110	1866.25	1890.0	-0.1	-0.2	10.2	1896.1	-6.1
123	1000 0101	1881.88	1915.9	0.1	0.1	25.9	1911.9	4.0
124	1000 0100	1897.50	1933.4	0.1	0.1	17.4	1927.8	5.6
125	1000 0011	1913.13	1945.5	-0.0	0.2	12.2	1943.6	1.9
126	1000 0010	1928.75	1958.3	-0.1	-0.2	12.8	1959.5	-1.1
127	1000 0001	1944.38	1981.4	-0.1	-0.1	23.1	1975.3	6.1
128	1000 0000	1960.00	1989.6	0.0	0.0	8.2	1991.2	-1.5
129	0111 1111	1975.63	2002.9	0.1	0.1	13.3	2007.0	-4.1
130	0111 1110	1991.25	2011.7	-0.2	0.0	8.8	2022.8	-11.1

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 124
1981/11/30 10:34:09 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.3.5-8 A/D THRESHOLD TEST (BAND= 1, SENSOR=1)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
131	0111 1101	2006.88	2039.3	-0.1	-0.1	27.6	2038.7	0.6
132	0111 1100	2022.50	2051.7	0.1	0.1	12.3	2054.5	-2.9
133	0111 1011	2038.13	2069.8	0.1	0.2	18.1	2070.4	-0.6
134	0111 1010	2053.75	2080.3	0.3	0.1	10.5	2086.2	-6.0
135	0111 1001	2069.38	2104.8	-0.1	-0.0	24.5	2102.1	2.7
136	0111 1000	2085.00	2108.1	-0.1	-0.1	3.4	2117.9	-9.8
137	0111 0111	2100.63	2129.8	0.1	-0.1	21.7	2133.8	-3.9
138	0111 0110	2116.25	2140.4	0.1	0.0	10.5	2149.6	-9.3
139	0111 0101	2131.88	2165.7	-0.0	-0.2	25.3	2165.5	0.2
140	0111 0100	2147.50	2182.4	-0.1	-0.0	16.7	2181.3	1.1
141	0111 0011	2163.13	2196.8	-0.2	-0.1	14.4	2197.2	-0.4
142	0111 0010	2178.75	2209.9	0.2	0.1	13.1	2213.0	-3.1
143	0111 0001	2194.38	2231.6	0.1	0.0	21.7	2228.9	2.8
144	0111 0000	2210.00	2241.8	0.0	-0.1	10.2	2244.7	-2.9
145	0110 1111	2225.63	2255.9	-0.1	-0.1	14.1	2260.6	-4.6
146	0110 1110	2241.25	2264.9	0.1	0.0	8.9	2276.4	-11.[illegible]
147	0110 1101	2256.88	2292.4	0.0	-0.0	27.5	2292.2	0.[illegible]
148	0110 1100	2272.50	2307.8	0.0	0.0	15.4	2308.1	-0.3
149	0110 1011	2288.13	2322.8	-0.2	-0.0	15.0	2323.9	-1.1
150	0110 1010	2303.75	2334.1	-0.1	-0.0	11.3	2339.8	-5.7
151	0110 1001	2319.38	2357.8	-0.1	-0.1	23.7	2355.6	2.2
152	0110 1000	2335.00	2363.5	0.0	0.1	5.8	2371.5	-7.9
153	0110 0111	2350.63	2382.5	0.0	0.2	19.0	2387.3	-4.8
154	0110 0110	2366.25	2393.4	0.0	0.1	10.8	2403.2	-9.8
155	0110 0101	2381.88	2418.4	0.1	0.0	25.1	2419.0	-0.6
156	0110 0100	2397.50	2438.1	0.0	0.0	19.6	2434.9	3.2
157	0110 0011	2413.13	2449.3	0.1	0.1	11.2	2450.7	-1.4

ORIGINAL PAGE IS
OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 125

1981/11/30 10:34:09 FINALITY FULL PERFORMANCE @ AMBIENT TEMP.

HAC TEST S27

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
158	0110 0010	2428.75	2463.6	-0.1	-0.0	14.3	2466.6	-2.9
159	0110 0001	2444.38	2484.3	-0.1	-0.0	20.6	2482.4	1.9
160	0110 0000	2460.00	2488.7	0.0	-0.0	4.4	2498.3	-9.6
161	0101 1111	2475.63	2508.1	0.1	0.1	19.4	2514.1	-6.0
162	0101 1110	2491.25	2516.4	0.1	1.0	8.3	2529.9	-13.5
163	0101 1101	2506.88	2545.0	0.0	0.0	28.6	2545.8	-0.8
164	0101 1100	2522.50	2557.2	-0.0	0.0	12.2	2561.6	-4.4
165	0101 1011	2538.13	2575.0	0.1	0.1	17.8	2577.5	-2.5
166	0101 1010	2553.75	2585.0	-0.1	0.0	10.0	2593.3	-8.3
167	0101 1001	2569.38	2610.4	0.1	-0.2	25.4	2609.2	1.2
168	0101 1000	2585.00	2616.0	-0.2	-1.9	5.6	2625.0	-9.0
169	0101 0111	2600.63	2635.1	-0.1	-0.0	19.1	2640.9	-5.8
170	0101 0110	2616.25	2645.0	0.1	0.1	9.9	2656.7	-11.7
171	0101 0101	2631.88	2671.3	0.0	0.0	26.3	2672.6	-1.2
172	0101 0100	2647.50	2687.8	0.1	0.0	16.5	2688.4	-0.6
173	0101 0011	2663.13	2702.0	-0.0	-0.0	14.2	2704.3	-2.3
174	0101 0010	2678.75	2714.8	0.0	-0.0	12.8	2720.1	-5.3
175	0101 0001	2694.38	2736.9	-0.0	-0.0	22.1	2735.8	1.0
176	0101 0000	2710.00	2751.0	-0.0	-0.0	14.1	2751.8	-0.8
177	0100 1111	2725.63	2761.1	-0.0	0.0	10.1	2767.6	-6.5
178	0100 1110	2741.25	2769.6	0.0	0.1	8.4	2783.5	-13.9
179	0100 1101	2756.88	2798.1	-0.1	-0.1	28.6	2799.3	-1.2
180	0100 1100	2772.50	2813.5	-0.0	0.0	15.4	2815.2	-1.6
181	0100 1011	2788.13	2827.9	-0.1	0.1	14.4	2831.3	-3.4
182	0100 1010	2803.75	2838.8	-0.0	-0.1	10.8	2836.9	-8.1
183	0100 1001	2819.38	2863.4	0.1	-0.0	24.6	2862.7	0.7

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL .. FLT. S/N 3 PAGE 126

1981/11/30 10:34:09 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] A/D THRESHOLD TEST (PGAND= [illegible] INTERPOLATION= [illegible]

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
184	0100 1000	2835.00	2872.8	-0.1	0.0	9.4	2878.6	-5.8
185	0100 0111	2850.63	2887.9	0.1	0.0	15.1	[illegible]	-6.5
186	0100 0110	2866.25	2898.3	0.0	0.0	10.3	2910.3	-12.0
187	0100 0101	2881.88	2924.6	-0.1	-0.1	26.3	2926.1	-1.5
188	0100 0100	2897.50	2943.7	-0.0	0.1	19.1	2942.0	1.7
189	0100 0011	2913.13	2955.0	0.0	0.1	11.2	2957.8	-2.8
190	0100 0010	2928.75	2968.4	-0.0	0.0	13.4	2971.7	-3.3
191	0100 0001	2944.38	2990.1	-0.0	-0.1	21.7	2989.5	0.6
192	0100 0000	2960.00	3005.8	-0.1	0.1	15.7	[illegible]	0.[illegible]
193	0011 1111	2975.63	3016.6	0.1	-0.0	10.8	3021.2	-4.6
194	0011 1110	2991.25	3027.4	-0.1	-0.1	10.8	3037.0	-9.6
195	0011 1101	3006.88	3054.3	0.0	0.0	26.9	3052.9	1.4
196	0011 1100	3022.50	3065.6	0.0	0.1	11.3	3068.7	-3.2
197	0011 1011	3038.13	3084.3	0.0	0.1	18.8	3084.6	-0.2
198	0011 1010	3053.75	3093.8	-0.1	-0.1	9.5	3100.4	-6.6
199	0011 1001	3069.38	3120.0	-0.1	0.0	26.1	3114.3	3.7
200	0011 1000	3085.00	3127.1	-0.1	-0.1	2.1	3132.1	-10.1
201	0011 0111	3100.63	3144.7	0.0	0.0	22.6	3148.0	-3.3
202	0011 0110	3116.25	3154.6	-0.1	0.0	9.9	3163.8	-9.2
203	0011 0101	3131.88	3181.5	-0.0	-0.1	26.9	3179.7	1.8
204	0011 0100	3147.50	3196.8	-0.0	0.0	15.3	3195.5	1.2
205	0011 0011	3163.13	3212.3	-0.1	0.0	15.5	3211.4	0.9
206	0011 0010	3178.75	3224.6	0.0	0.0	12.3	[illegible]	-2.4
207	0011 0001	3194.38	3247.5	-0.1	-0.0	22.9	3244.0	4.4
208	0011 0000	3210.00	3260.2	-0.0	0.0	12.8	[illegible]	[illegible]
209	0010 1111	3225.63	3271.7	0.0	0.0	11.4	3274.7	-3.1

ORIGINAL PAGE IS OF POOR QUALITY

HS-216 THEMATIC MAPPER MUX UNIT TEST MODEL .. FLT. S/N 3 PAGE 127

1981/11/30 10:34:09 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

34 - 77 - 14 - 5 - 41 ANALOG THRESHOLD TEST (PAGE 1 - REF REFERENCE)

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
210	0010 1110	3241.25	3280.2	0.0	-0.1	8.6	3290.6	-10.4
211	0010 1101	3256.88	3309.2	-0.1	0.0	29.0	3303.4	2.8
212	0010 1100	3272.50	3323.0	0.0	0.1	13.8	3322.3	0.7
213	0010 1011	3288.13	3339.2	0.0	0.0	16.2	3338.1	1.0
214	0010 1010	3303.75	3349.6	-0.1	-0.0	10.4	3354.0	-4.4
215	0010 1001	3319.38	3375.3	-0.1	0.1	25.7	3349.8	5.5
216	0010 1000	3335.00	3380.5	-0.0	0.0	5.2	3385.7	-5.1
217	0010 0111	3350.63	3399.0	-0.1	0.1	19.3	3401.5	-1.8
218	0010 0110	3366.25	3409.9	-0.1	0.0	10.2	3417.4	-7.5
219	0010 0101	3381.88	3436.8	-0.1	-0.1	26.9	3433.2	3.6
220	0010 0100	3397.50	3455.3	-0.0	0.0	18.5	3449.1	6.3
221	0010 0011	3413.13	3467.5	0.0	0.0	12.2	3464.9	2.6
222	0010 0010	3428.75	3480.6	-0.0	0.0	13.0	3480.7	-0.2
223	0010 0001	3444.38	3503.1	-0.2	-0.1	22.5	3496.6	6.5
224	0010 0000	3460.00	3510.5	-0.0	0.0	7.4	3512.4	-1.9
225	0001 1111	3475.63	3526.7	0.0	0.1	16.2	3528.3	-1.6
226	0001 1110	3491.25	3536.6	-0.0	0.0	9.9	3544.1	-7.5
227	0001 1101	3506.88	3564.0	-0.2	-0.1	28.1	3560.0	4.0
228	0001 1100	3522.50	3575.8	0.2	0.1	11.0	3571.8	-0.0
229	0001 1011	3538.13	3594.6	0.0	0.1	18.8	3591.7	2.9
230	0001 1010	3553.75	3603.7	0.0	0.0	9.1	3607.5	-3.8
231	0001 1001	3569.38	3631.4	-0.3	-0.2	27.7	3623.4	8.0
232	0001 1000	3585.00	3635.5	-0.1	0.0	4.1	3639.2	-3.7
233	0001 0111	3600.63	3655.5	-0.1	0.1	20.0	3655.1	0.4
234	0001 0110	3616.25	3665.1	0.1	0.1	9.6	3670.9	-5.8
235	0001 0101	3631.88	3693.1	-0.3	-0.1	28.0	3687.8	5.3
236	0001 0100	3647.50	3708.2	-0.1	0.0	15.1	3702.6	5.5

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 128
1981/11/30 10:34:09 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.1.3.5-8 A/D THRESHOLD TEST (BAND= 1 SENSOR=5)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
237	0001 0011	3663.13	3723.6	-0.1	0.1	15.4	3718.4	5.2
238	0001 0010	3678.75	3735.7	-0.0	-0.1	12.1	3734.3	1.4
239	0001 0001	3694.38	3759.5	0.1	0.1	23.8	3750.1	9.4
240	0001 0000	3710.00	3776.0	-0.2	-0.0	16.5	3766.0	10.0
241	0000 1111	3725.63	3783.7	-0.1	-0.1	7.7	3781.8	1.9
242	0000 1110	3741.25	3791.8	1.4	0.0	8.1	3797.7	-5.9
243	0000 1101	3756.88	3821.7	-0.1	0.1	29.9	3813.5	8.2
244	0000 1100	3772.50	3836.1	-0.0	0.2	14.3	3829.4	6.7
245	0000 1011	3788.13	3851.7	-0.1	-0.0	15.6	3845.2	6.4
246	0000 1010	3803.75	3861.7	0.0	-0.1	10.0	3861.1	0.6
247	0000 1001	3819.38	3888.6	-0.1	0.2	26.9	3876.9	11.7
248	0000 1000	3835.00	3897.2	0.0	0.1	8.6	3892.8	4.4
249	0000 0111	3850.63	3912.9	-0.2	0.0	15.7	3908.6	4.3
250	0000 0110	3866.25	3922.8	-0.2	-0.1	9.8	3924.5	-1.7
251	0000 0101	3881.88	3950.6	-0.2	-0.1	27.8	3940.3	10.3
252	0000 0100	3897.50	3968.3	-0.0	0.2	17.7	3956.2	12.1
253	0000 0011	3913.13	3981.1	-0.0	0.1	12.8	3972.0	9.1
254	0000 0010	3928.75	3993.8	-0.2	-0.0	12.7	3987.8	6.0
255	0000 0001	3944.38	4017.1	-0.3	-0.1	23.3	4003.7	13.4

ORIGINAL PAGE IS OF POOR QUALITY

```
-236   THEMATIC MAPPER MUX UNIT TEST    MODEL.. FLT. S/N 3      PAGE   129
31/11/30 10:40:33  PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
.5.3.5-4  A/D  THRESHOLD  TEST  (BAND=  1,  SENSOR=  5  )
                    S  U  M  M  A  R  Y

CK 1) RMS ERROR, 2) THRESHOLD INCREMENT(+/- 0.0 <= THRH INC <= 31.2)
 REMAINING DATA ARE FOR INFORMATION ONLY

BEST FIT STRAIGHT LINE TS: Y =15.808X -39.8MV

 DEVIATION OF SLOPE FROM IDEAL IS:  1.173%
 OFFSET IS:-39.8MV
 COEFFICIENT OF DETERMINATION IS: R**2= .99997880
 ANALOG INPUT DURING DC RESTORE IS:64.5MV

RMS ERROR =   5.213MV     REQMT: RMS ERROR <=7.812MV

THRESHOLD INCREMENT MEASUREMENT

  MAXIMUM  THRESHOLD #     AVERAGE        MINIMUM  THRESHOLD #        STANDARD DEVIATION
   28.1MV    163           15.879MV         1.7MV     32                   6.657MV

 OWER LIMIT AT OUTPUT LEVELS RATIO =   1  :1

  MAXIMUM  THRESHOLD #     AVERAGE        MINIMUM  THRESHOLD #        STANDARD DEVIATION
    0.3MV    226           -0.022MV        -0.4MV    251                   .113MV

UPPER LIMIT AT OUTPUT LEVELS RATIO =   1  :1

  MAXIMUM  THRESHOLD #     AVERAGE        MINIMUM  THRESHOLD #        STANDARD DEVIATION
    0.7MV    253            0.008MV        -0.3MV    246                   .129MV

ST PASSED
```

ORIGINAL PAGE IS
OF POOR QUALITY

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
THE FOLLOWING DATA ARE FOR INFORMATION ONLY								
1	1111 1111	-24.375	-28.4	-0.0	-0.0		-24.0	-4.5
2	1111 1110	-8.750	-19.3	0.0	0.0	9.1	-8.2	-11.1
3	1111 1101	6.875	7.3	-0.1	0.0	26.6	7.7	-0.3
4	1111 1100	22.500	19.5	-0.1	-0.0	12.2	23.5	-3.9
5	1111 1011	38.125	38.2	-0.0	0.1	18.6	39.3	-1.1
6	1111 1010	53.750	48.8	0.0	0.1	10.6	55.1	-5.3
7	1111 1001	69.375	74.0	-0.1	-0.0	25.2	70.9	3.1
8	1111 1000	85.000	77.0	-0.1	-0.1	3.0	86.7	9.7
9	1111 0111	100.625	99.4	-0.1	-0.1	22.3	102.5	-3.1
10	1111 0110	116.250	110.8	-0.1	-0.1	11.4	118.3	-7.5
11	1111 0101	131.875	135.1	-0.0	-0.0	24.4	133.1	1.0
12	1111 0100	147.500	150.6	-0.0	0.0	15.4	149.9	0.6
13	1111 0011	163.125	165.9	0.0	0.1	15.3	165.7	0.1
14	1111 0010	178.750	179.6	-0.2	-0.1	13.7	181.5	-1.9
15	1111 0001	194.375	201.9	-0.1	0.0	22.3	197.4	4.5
16	1111 0000	210.000	211.3	0.0	0.1	9.4	213.2	-1.9
17	1110 1111	225.625	226.9	-0.0	-0.1	15.6	229.0	-2.0
18	1110 1110	241.250	236.4	-0.1	-0.0	9.4	233.8	-8.4
19	1110 1101	256.875	262.7	-0.2	0.0	26.3	260.6	2.1
20	1110 1100	272.500	277.8	-0.0	0.0	15.1	276.4	1.5
21	1110 1011	288.125	293.5	-0.1	-0.0	15.6	292.2	1.3
22	1110 1010	303.750	304.8	-0.1	0.0	11.3	308.0	-3.2
23	1110 1001	319.375	329.3	-0.1	0.0	24.4	323.8	5.4
24	1110 1000	335.000	335.6	0.0	0.0	6.3	339.6	-4.1
25	1110 0111	350.625	354.5	-0.1	-0.0	18.9	355.4	0.9

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
26	1110 0110	366.250	366.1	0.1	0.0	11.6	371.2	-5.2
27	1110 0101	381.875	390.2	0.0	0.2	24.1	387.1	3.1
28	1110 0100	397.500	408.7	0.0	0.0	18.5	402.9	5.8
29	1110 0011	413.125	420.9	-0.0	0.1	12.2	418.7	2.2
30	1110 0010	428.750	434.8	-0.1	0.0	13.9	434.5	0.4
31	1110 0001	444.375	456.7	0.1	0.1	21.9	450.3	6.4
32	1110 0000	460.000	458.4	-0.1	-0.0	1.7	466.1	-7.7
33	1101 1111	475.625	481.1	0.0	0.2	22.7	481.9	-0.8
34	1101 1110	491.250	489.9	0.0	-0.0	8.8	497.7	-7.8
35	1101 1101	506.875	517.1	-0.1	0.1	27.2	513.5	3.6
36	1101 1100	522.500	529.2	0.0	0.1	12.1	529.3	-0.1
37	1101 1011	538.125	547.7	-0.0	0.0	18.4	545.1	2.5
38	1101 1010	553.750	557.8	-0.1	-0.1	10.2	560.9	-3.1
39	1101 1001	569.375	583.5	-0.0	-0.1	25.7	576.8	6.8
40	1101 1000	585.000	588.5	0.1	0.0	5.0	592.6	-4.0
41	1101 0111	600.625	608.5	0.0	0.1	19.9	608.4	0.1
42	1101 0110	616.250	619.4	-0.0	0.0	10.9	624.2	-4.8
43	1101 0101	631.875	644.4	-0.1	-0.1	25.0	640.0	4.4
44	1101 0100	647.500	659.9	-0.0	0.0	15.4	655.8	4.1
45	1101 0011	663.125	674.7	0.1	-0.0	14.8	671.5	3.1
46	1101 0010	678.750	687.9	0.0	0.0	13.2	687.4	0.5
47	1101 0001	694.375	710.5	-0.1	0.0	22.6	703.2	7.3
48	1101 0000	710.000	723.7	0.1	0.0	13.2	719.0	4.7
49	1100 1111	725.625	735.4	-0.2	0.0	11.7	734.8	0.6
50	1100 1110	741.250	744.3	-0.0	-0.1	8.8	750.5	-6.3
51	1100 1101	756.875	771.2	-0.0	0.0	26.9	766.[illegible]	4.7

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 132
1981/11/30 10:40:47 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 1, SENSOR=A)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
52	1100 1100	772.500	786.3	-0.0	0.0	15.1	782.3	4.0
53	1100 1011	788.125	801.3	-0.1	-0.0	15.0	798.1	3.3
54	1100 1010	803.750	812.2	0.0	0.1	10.9	813.9	-1.7
55	1100 1001	819.375	837.1	0.0	0.0	24.9	829.7	7.4
56	1100 1000	835.000	846.6	-0.0	0.0	9.5	[illegible]	1.1
57	1100 0111	850.625	862.0	-0.0	0.0	15.4	861.3	0.7
58	1100 0110	866.250	873.0	-0.0	-0.0	11.0	877.1	-4.1
59	1100 0101	881.875	897.6	0.2	0.0	24.5	892.9	4.7
60	1100 0100	897.500	916.0	0.0	0.1	18.4	908.7	[illegible]
61	1100 0011	913.125	927.6	-0.0	0.0	11.6	924.5	[illegible]
62	1100 0010	928.750	941.1	0.0	0.1	13.5	940.3	0.8
63	1100 0001	944.375	963.4	-0.1	-0.0	22.3	956.2	7.3
64	1100 0000	960.000	975.2	-0.1	-0.1	11.8	972.0	3.3
65	1011 1111	975.625	990.8	0.1	0.0	15.5	987.8	3.0
66	1011 1110	991.250	999.1	0.1	0.1	8.3	1003.6	-4.5
67	1011 1101	1006.88	1026.6	-0.1	-0.0	27.5	1019.4	7.2
68	1011 1100	1022.50	1037.7	-0.0	-0.1	11.1	1035.2	2.5
69	1011 1011	1038.13	1056.9	0.1	0.1	19.2	1051.0	5.9
70	1011 1010	1053.75	1066.4	0.0	-0.0	9.5	1066.8	-0.4
71	1011 1001	1069.38	1092.3	-0.0	-0.1	25.9	1082.6	9.7
72	1011 1000	1085.00	1094.4	0.0	0.0	2.1	1098.4	-4.1
73	1011 0111	1100.63	1117.1	0.1	0.0	22.7	1114.2	2.8
74	1011 0110	1116.25	1127.6	-0.0	-0.0	10.5	1130.0	-2.4
75	1011 0101	1131.88	1152.7	-0.0	0.0	25.1	1145.9	6.8
76	1011 0100	1147.50	1167.3	0.1	-0.0	14.6	1161.7	5.6
77	1011 0011	1163.13	1183.2	-0.0	-0.0	15.9	1177.5	5.8
78	1011 0010	1178.75	1195.4	0.0	-0.0	12.2	1193.3	2.1

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 133
1981/11/30 10:40:47 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.3.5-8 A/D THRESHOLD TEST (BAND= 1, SENSOR=A)

HAC TEST S27

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
79	1011 0001	1194.38	1218.4	-0.0	0.0	23.0	1209.1	9.3
80	1011 0000	1210.00	1230.7	0.0	0.0	12.3	1224.9	5.8
81	1010 1111	1225.63	1243.1	0.0	-0.0	12.4	1240.7	2.4
82	1010 1110	1241.25	1251.6	0.0	-0.0	8.5	1256.5	-4.9
83	1010 1101	1256.88	1278.9	0.1	0.0	27.3	1272.3	6.6
84	1010 1100	1272.50	1293.0	0.0	0.0	14.0	1288.1	4.8
85	1010 1011	1288.13	1309.1	-0.0	-0.1	16.2	1303.9	5.2
86	1010 1010	1303.75	1319.4	0.0	-0.0	10.2	1319.7	-0.4
87	1010 1001	1319.38	1344.5	0.0	-0.1	25.1	1335.6	8.9
88	1010 1000	1335.00	1350.6	0.0	0.0	6.1	1351.4	-0.8
89	1010 0111	1350.63	1369.2	-0.0	0.0	18.6	1367.2	2.0
90	1010 0110	1366.25	1379.8	0.1	0.0	10.6	1383.0	-3.2
91	1010 0101	1381.88	1405.0	-0.1	-0.0	25.2	1398.8	6.2
92	1010 0100	1397.50	1422.5	-0.1	0.0	17.5	1414.6	7.9
93	1010 0011	1413.13	1435.1	0.0	0.1	12.6	1430.4	4.7
94	1010 0010	1428.75	1447.8	0.0	-0.1	12.6	1446.2	1.6
95	1010 0001	1444.38	1470.5	-0.0	-0.0	22.7	1462.0	8.4
96	1010 0000	1460.00	1477.2	0.0	0.0	6.7	1477.8	-0.[illegible]
97	1001 1111	1475.63	1494.6	-0.1	0.0	17.4	1493.6	1.0
98	1001 1110	1491.25	1502.6	-0.1	-0.1	7.9	1509.4	-6.[illegible]
99	1001 1101	1506.88	1530.6	0.0	0.0	28.0	1525.3	[illegible].4
100	1001 1100	1522.50	1541.5	0.0	0.1	10.8	1541.1	0.[illegible]
101	1001 1011	1538.13	1560.6	0.0	0.0	19.1	1556.9	3.7
102	1001 1010	1553.75	1569.6	-0.0	0.0	9.0	1572.7	-3.1
103	1001 1001	1569.38	1596.1	0.1	0.1	26.5	1588.5	7.6
104	1001 1000	1585.00	1600.1	0.0	-0.0	4.0	1604.3	-4.2

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 134
1981/11/30 10:40:47 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.3.5-8 A/D THRESHOLD TEST (BAND-- 1 , SENSOR-- 2)

HAC TEST S27

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
105	1001 0111	1600.63	1620.7	0.0	0.0	20.6	1620.1	[illegible]
106	1001 0110	1616.25	1630.7	-0.0	0.0	9.9	1635.9	-5.2
107	1001 0101	1631.88	1656.7	-0.0	-0.2	26.0	1651.7	5.0
108	1001 0100	1647.50	1671.1	-0.0	0.0	14.4	1667.5	3.6
109	1001 0011	1663.13	1686.8	-0.0	0.0	15.6	1683.3	3.4
110	1001 0010	1678.75	1698.5	0.0	-0.1	11.8	1699.1	-0.6
111	1001 0001	1694.38	1722.1	-0.1	0.0	23.5	1715.0	7.1
112	1001 0000	1710.00	1737.8	0.1	-0.0	15.7	1730.8	7.0
113	1000 1111	1725.63	1746.7	0.0	-0.0	8.9	1746.6	0.1
114	1000 1110	1741.25	1754.8	0.0	-0.1	8.1	1762.4	-7.6
115	1000 1101	1756.88	1782.8	0.0	-0.0	28.0	1778.2	4.6
116	1000 1100	1772.50	1796.6	-0.0	0.0	13.7	1794.0	2.6
117	1000 1011	1788.13	1812.5	-0.1	-0.0	15.9	1809.8	2.7
118	1000 1010	1803.75	1822.3	-0.1	0.0	9.8	1825.6	-3.3
119	1000 1001	1819.38	1848.3	-0.0	0.0	26.0	1841.4	6.9
120	1000 1000	1835.00	1857.6	-0.0	-0.0	9.3	1857.2	0.4
121	1000 0111	1850.63	1872.6	-0.0	0.0	15.0	1873.0	-0.4
122	1000 0110	1866.25	1882.8	0.1	0.1	10.2	1888.8	-6.0
123	1000 0101	1881.88	1908.5	0.0	0.0	25.7	1904.7	3.9
124	1000 0100	1897.50	1926.0	0.0	0.0	17.4	1920.5	5.5
125	1000 0011	1913.13	1938.5	-0.0	0.0	12.5	1936.3	2.2
126	1000 0010	1928.75	1950.7	-0.0	-0.1	12.2	1952.1	-1.4
127	1000 0001	1944.38	1974.0	0.1	-0.1	23.3	1967.9	6.1
128	1000 0000	1960.00	1983.0	0.1	0.1	9.0	1983.7	-0.7
129	0111 1111	1975.63	1995.7	-0.1	0.1	12.6	1999.5	-3.8
130	0111 1110	1991.25	2004.4	-0.1	-0.1	8.8	2015.3	-10.9

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 1.3[illegible]

1981/11/30 10:40:47 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND- 1 , SENSOR -4)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
131	0111 1101	2006.88	2031.6	0.1	0.1	27.2	2031.1	0.5
132	0111 1100	2022.50	2044.0	0.1	0.1	12.3	2046.9	-3.0
133	0111 1011	2038.13	2062.4	0.1	0.0	18.4	2062.7	-0.4
134	0111 1010	2053.75	2072.4	-0.1	-0.2	10.0	2078.5	-6.2
135	0111 1001	2069.38	2097.1	-0.1	-0.1	24.7	2094.4	2.8
136	0111 1000	2085.00	2100.6	0.2	0.0	3.4	2110.2	-9.6
137	0111 0111	2100.63	2122.3	0.0	0.1	21.8	2126.0	-3.6
138	0111 0110	2116.25	2132.8	-0.1	-0.1	10.5	2141.8	-9.0
139	0111 0101	2131.88	2157.8	-0.1	-0.1	25.0	2157.6	0.2
140	0111 0100	2147.50	2173.8	0.1	-0.1	15.9	2173.4	0.4
141	0111 0011	2163.13	2188.9	0.1	0.1	15.1	2189.2	-0.3
142	0111 0010	2178.75	2202.0	0.0	0.0	13.2	2205.0	-3.0
143	0111 0001	2194.38	2223.6	-0.1	0.0	21.5	2220.8	2.8
144	0111 0000	2210.00	2233.7	-0.1	-0.1	10.1	2236.6	-2.9
145	0110 1111	2225.63	2248.0	-0.0	0.0	14.3	2252.4	-4.4
146	0110 1110	2241.25	2256.9	0.2	0.1	8.9	2268.2	-11.3
147	0110 1101	2256.88	2284.1	0.1	0.1	27.1	2284.1	0.0
148	0110 1100	2272.50	2299.7	-0.1	-0.1	15.6	2299.9	-0.2
149	0110 1011	2288.13	2314.6	0.0	0.0	14.9	2315.7	-1.1
150	0110 1010	2303.75	2325.4	0.1	0.0	10.8	2331.5	-6.1
151	0110 1001	2319.38	2349.3	0.2	0.1	23.9	2347.3	2.1
152	0110 1000	2335.00	2355.0	-0.1	0.1	5.7	[illegible]	-8.0
153	0110 0111	2350.63	2374.5	0.0	-0.0	19.4	2378.9	-4.4
154	0110 0110	2366.25	2385.1	-0.0	-0.1	10.7	[illegible]	-9.5
155	0110 0101	2381.88	2410.1	0.1	-0.1	24.9	2410.5	-0.5
156	0110 0100	2397.50	2429.2	0.1	0.2	19.1	2426.3	2.8
157	0110 0011	2413.13	2441.1	-0.1	0.1	11.9	2442.1	-1.1

ORIGINAL PAGE IS OF POOR QUALITY

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
158	0110 0010	2428.75	2454.9	-0.2	-0.1	13.9	2457.9	-3.0
159	0110 0001	2444.38	2475.7	-0.0	-0.1	20.8	2473.8	2.0
160	0110 0000	2460.00	2480.2	0.1	0.2	4.5	2489.6	-9.4
161	0101 1111	2475.63	2499.6	0.1	0.1	19.4	2505.4	[illegible]
162	0101 1110	2491.25	2508.1	-0.1	-0.1	8.4	2521.2	-13.1
163	0101 1101	2506.88	2536.2	-0.1	-0.1	28.1	2537.0	-0.8
164	0101 1100	2522.50	2548.2	0.2	0.1	12.0	2552.8	-4.6
165	0101 1011	2538.13	2566.4	0.1	0.1	18.2	2568.6	-2.2
166	0101 1010	2553.75	2575.6	-0.1	0.1	9.2	2585.4	-8.8
167	0101 1001	2569.38	2601.7	-0.3	-0.2	26.1	2601.2	1.5
168	0101 1000	2585.00	2607.8	-0.1	-0.1	6.2	2616.8	-8.7
169	0101 0111	2600.63	2626.2	0.0	0.1	18.4	[illegible]	[illegible]
170	0101 0110	2616.25	2636.2	0.1	0.1	9.9	2647.6	-11.5
171	0101 0101	2631.88	2662.2	0.0	0.0	26.0	2633.5	-1.2
172	0101 0100	2647.50	2678.0	-0.2	-0.2	15.8	2679.3	-1.2
173	0101 0011	2663.13	2693.1	0.0	0.1	15.1	2695.1	-2.0
174	0101 0010	2678.75	2705.4	0.0	0.1	12.2	2710.9	[illegible]
175	0101 0001	2694.38	2727.6	0.1	0.2	22.2	2726.7	0.9
176	0101 0000	2710.00	2741.8	-0.2	-0.2	14.2	[illegible]	-0.7
177	0100 1111	2725.63	2752.1	-0.1	-0.1	10.2	[illegible]	-6.2
178	0100 1110	2741.25	2760.5	0.1	-0.1	8.4	[illegible]	-13.4
179	0100 1101	2756.88	2788.4	0.1	0.1	27.9	[illegible]	[illegible]
180	0100 1100	2772.50	2804.1	-0.0	0.2	15.7	[illegible]	[illegible]
181	0100 1011	2788.13	2818.7	-0.0	-0.1	14.7	[illegible]	[illegible]
182	0100 1010	2803.75	2829.0	-0.3	-0.1	10.3	[illegible]	[illegible]
183	0100 1001	2819.38	2854.0	0.1	0.1	24.9	[illegible]	0.8

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL .. FLT. S/N 3 PAGE 137

1981/11/30 10:40:47 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] THRESHOLD TEST [illegible]

HAC TEST S27

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
184	0100 1000	2835.00	2862.9	0.1	0.1	8.9	2869.0	-6.[illegible]
185	0100 0111	2850.63	2878.6	-0.1	0.0	15.7	2884.8	-6.1
186	0100 0110	2866.25	2888.9	-0.1	-0.1	10.3	2900.6	-11.6
187	0100 0101	2881.88	2914.8	0.0	-0.1	25.8	2917.4	-1.6
188	0100 0100	2897.50	2933.7	0.3	0.2	18.9	2932.2	1.[illegible]
189	0100 0011	2913.13	2945.4	0.2	0.1	11.7	2948.0	-[illegible].6
190	0100 0010	2928.75	2958.6	-0.2	-0.3	13.3	2963.8	-5.2
191	0100 0001	2944.38	2980.3	-0.2	-0.1	21.6	2979.6	0.7
192	0100 0000	2960.00	2995.9	0.3	0.0	15.6	2991.4	0.5
193	0011 1111	2975.63	3007.3	0.1	0.2	11.4	3011.2	-3.9
194	0011 1110	2991.25	3017.4	-0.1	0.1	10.1	3027.0	-9.6
195	0011 1101	3006.88	3044.1	-0.2	-0.1	26.6	3042.9	1.2
196	0011 1100	3022.50	3055.4	-0.1	-0.2	11.3	3[illegible]8.7	-4.2
197	0011 1011	3038.13	3074.5	0.1	0.2	19.0	3[illegible]4.5	-0.0
198	0011 1010	3053.75	3083.2	0.1	0.0	8.8	3090.3	-7.1
199	0011 1001	3069.38	3110.0	-0.0	0.0	26.8	3106.1	3.9
200	0011 1000	3085.00	3112.4	-0.2	-0.2	2.4	3121.9	-9.[illegible]
201	0011 0111	3100.63	3134.8	-0.1	-0.1	22.3	3137.7	-2.9
202	0011 0110	3116.25	3144.5	0.1	0.2	9.7	3[illegible]	-9.0
203	0011 0101	3131.88	3170.9	-0.1	0.1	26.4	3169.3	1.6
204	0011 0100	3147.50	3185.7	-0.2	-0.1	14.8	3[illegible]	0.6
205	0011 0011	3163.13	3202.1	-0.2	-0.0	16.3	3[illegible]	1.1
206	0011 0010	3178.75	3213.8	0.2	0.0	11.8	3216.7	-2.9
207	0011 0001	3194.38	3236.8	0.1	0.2	22.9	3242.6	4.2
208	0011 0000	3210.00	3249.6	-0.0	0.2	12.8	3[illegible]8.4	1.2
209	0010 1111	3225.63	3261.4	-0.1	-0.1	11.8	3264.2	-2.8

ORIGINAL PAGE IS OF POOR QUALITY

HS-216 THEMATIC MAPPER MUX UNIT TEST MODEL .. FLT. S/N 3 PAGE 1.3

1981/11/30 10:40:47 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] A/D THRESHOLD TEST CHANNEL [illegible]

HAC TEST S27

[illegible] 30 81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
210	0010 1110	3241.25	3272.1	-0.1	-0.2	10.7	3280.0	-7.9
211	0010 1101	3256.89	3298.1	0.1	0.2	25.9	3295.8	2.3
212	0010 1100	3272.50	3312.6	0.1	0.1	14.6	3311.6	1.0
213	0010 1011	3288.13	3328.8	-0.2	0.1	16.2	3327.4	1.4
214	0010 1010	3303.75	3338.6	-0.2	-0.2	9.7	3343.2	-4.6
215	0010 1001	3319.38	3364.5	-0.1	-0.1	26.0	3359.0	[illegible]
216	0010 1000	3335.00	3369.4	0.2	0.2	4.8	[illegible]	[illegible]
217	0010 0111	3350.63	3389.0	0.2	0.2	19.6	[illegible]	-1.7
218	0010 0110	3366.25	3399.3	-0.3	-0.1	10.3	3386.4	-7.[illegible]
219	0010 0101	3381.88	3425.7	-0.2	-0.3	26.4	3422.3	3.4
220	0010 0100	3397.50	3443.6	0.1	-0.1	17.9	3438.1	5.6
221	0010 0011	3413.13	3456.7	0.1	0.2	13.0	[illegible]	2.8
222	0010 0010	3428.75	3469.2	-0.0	0.3	12.5	[illegible]	-0.5
223	0010 0001	3444.38	3491.9	-0.3	-0.2	22.7	3487.5	4.4
224	0010 0000	3460.00	3499.8	-0.1	-0.2	7.9	[illegible]	-1.5
225	0001 1111	3475.63	3515.6	0.2	0.2	15.8	3517.1	-1.5
226	0001 1110	3491.25	3525.2	0.3	0.2	9.6	[illegible]	-7.[illegible]
227	0001 1101	3506.88	3553.0	-0.3	-0.0	27.8	3548.7	4.3
228	0001 1100	3522.50	3564.5	-0.3	-0.3	11.4	[illegible]	-0.1
229	0001 1011	3538.13	3583.6	-0.1	-0.2	19.1	[illegible]	[illegible]
230	0001 1010	3553.75	3591.8	0.1	0.2	8.2	[illegible]	-4.5
231	0001 1001	3569.38	3619.7	-0.1	0.2	27.9	[illegible]	[illegible]
232	0001 1000	3585.00	3624.9	-0.2	-0.2	5.2	[illegible]	-2.9
233	0001 0111	3600.63	3644.2	-0.3	-0.1	19.3	[illegible]	0.6
234	0001 0110	3616.25	3653.6	0.3	0.0	9.4	[illegible]	-[illegible]
235	0001 0101	3631.88	3680.9	0.0	0.2	27.3	[illegible]	[illegible]
236	0001 0100	3647.50	3695.7	-0.1	0.2	14.9	3691.0	4.7

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 139
1981/11/30 10:40:47 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.3.5-8 A/D THRESHOLD TEST (BAND-- 1 , SENSOR 4

HAC TEST S27

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
237	0001 0011	3663.13	3712.2	-0.3	-0.2	16.5	3706.8	5.4
238	0001 0010	3678.75	3723.7	0.0	-0.2	11.5	3722.6	1.1
239	0001 0001	3694.38	3747.6	0.1	0.1	23.9	3738.4	9.2
240	0001 0000	3710.00	3763.9	0.1	0.2	16.3	3754.2	9.7
241	0000 1111	3725.63	3772.0	-0.3	-0.0	8.1	3770.0	2.0
242	0000 1110	3741.25	3782.1	-0.3	-0.2	10.1	3785.8	-3.7
243	0000 1101	3756.88	3809.3	-0.1	-0.1	27.1	3801.7	7.6
244	0000 1100	3772.50	3824.1	0.1	0.3	14.8	3817.5	6.6
245	0000 1011	3788.13	3839.3	-0.1	0.7	15.2	3833.3	6.0
246	0000 1010	3803.75	3849.4	-0.3	-0.3	10.1	3849.1	0.3
247	0000 1001	3819.38	3876.4	-0.3	-0.2	27.0	3864.9	11.5
248	0000 1000	3835.00	3885.0	0.2	-0.1	8.6	3880.7	4.3
249	0000 0111	3850.63	3900.6	0.1	0.2	15.7	3896.5	4.1
250	0000 0110	3866.25	3910.5	0.0	0.3	9.8	3912.3	-1.9
251	0000 0101	3881.88	3937.9	-0.4	-0.3	27.4	3928.1	9.7
252	0000 0100	3897.50	3956.2	-0.1	-0.2	18.3	3943.9	12.2
253	0000 0011	3913.13	3968.3	0.0	0.7	12.1	3959.7	3.6
254	0000 0010	3928.75	3981.0	0.2	0.2	12.7	3975.5	5.5
255	0000 0001	3944.38	4004.8	-0.2	0.1	23.7	3991.4	13.4

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 140
1981/11/30 10:47:10 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
[illegible] A/D THRESHOLD TEST [illegible]
S U M M A R Y

CHECK 1) RMS ERROR, 2) THRESHOLD INCREMENT(+/- 0.0 -= THRH INC <= 31.2)
THE REMAINING DATA ARE FOR INFORMATION ONLY

BEST FIT STRAIGHT LINE IS: Y =[illegible]

DEVIATION OF SLOPE FROM IDEAL IS: 1.414%
OFFSET IS:-36.1MV
COEFFICIENT OF DETERMINATION IS: R**2= .99998110
ANALOG INPUT DURING DC RESTORE IS:64.5MV

RMS ERROR = 5.405MV REQMT: RMS ERROR <=[illegible]

THRESHOLD INCREMENT MEASUREMENT

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
29.6MV	179	15.915MV	0.6MV	32	7.079MV

LOWER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
0.8MV	59	-0.039MV	-1.7MV	83	.1[illegible]MV

UPPER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
1.3MV	59	-0.014MV	-1.9MV	179	.202MV

TEST PASSED

HAC TEST 527

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL .. FLT. S/N 3 PAGE 141

1981/11/30 10:47:24 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] THRESHOLD TEST [illegible]

HAC TEST S27

NOV 30 81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
THE FOLLOWING DATA ARE FOR INFORMATION ONLY								
1	1111 1111	-24.375	-24.5	-0.4	0.1		-20.2	-4.2
2	1111 1110	-8.750	-16.2	-0.1	0.1	8.3	-4.4	-11.8
3	1111 1101	6.875	12.6	-0.1	-0.0	28.8	11.4	1.1
4	1111 1100	22.500	23.3	-0.0	0.0	10.7	27.3	-4.0
5	1111 1011	38.125	42.4	-0.1	-0.0	19.1	45.1	-0.7
6	1111 1010	53.750	52.3	-0.0	0.0	9.9	59.0	-6.6
7	1111 1001	69.375	78.2	-0.0	0.0	25.8	74.8	3.4
8	1111 1000	85.000	81.0	0.0	0.1	2.8	90.7	-9.7
9	1111 0111	100.625	103.7	-0.1	0.1	22.7	106.5	-2.8
10	1111 0110	116.250	114.2	-0.1	-0.1	10.5	122.4	-8.1
11	1111 0101	131.875	140.8	-0.1	-0.1	26.6	138.2	2.6
12	1111 0100	147.500	154.6	0.0	0.1	13.8	154.1	0.5
13	1111 0011	163.125	170.5	0.0	0.1	15.9	169.9	0.6
14	1111 0010	178.750	183.1	-0.2	-0.1	12.5	185.8	-2.7
15	1111 0001	194.375	206.8	-0.2	-0.1	23.7	201.6	5.2
16	1111 0000	210.000	214.5	0.1	0.1	7.7	217.4	-3.0
17	1110 1111	225.625	231.6	0.1	0.1	17.1	233.3	-1.7
18	1110 1110	241.250	240.1	-0.0	-0.0	8.5	249.1	-9.0
19	1110 1101	256.875	268.6	-0.1	-0.0	28.4	265.0	3.6
20	1110 1100	272.500	282.4	-0.0	-0.1	13.8	280.8	1.5
21	1110 1011	288.125	298.3	0.0	0.0	15.9	296.7	1.6
22	1110 1010	303.750	308.8	-0.0	0.0	10.6	312.5	-3.7
23	1110 1001	319.375	334.1	-0.1	0.0	25.2	328.4	5.7
24	1110 1000	335.000	340.2	-0.1	-0.1	6.1	344.3	-4.0
25	1110 0111	350.625	359.6	-0.1	-0.0	19.4	360.1	-0.5

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL .. FLT. S/N 3 PAGE 142

1981/11/30 10:47:24 FINALITY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] THRESHOLD TEST [illegible]

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
26	1110 0110	366.250	370.3	0.0	0.1	10.7	[illegible]	[illegible]
27	1110 0101	381.875	396.6	-0.1	0.0	26.3	391.7	4.8
28	1110 0100	397.500	413.5	-0.2	-0.1	16.9	407.5	[illegible]
29	1110 0011	413.125	426.3	-0.1	-0.1	12.8	423.4	2.8
30	1110 0010	428.750	439.0	0.0	0.1	12.7	[illegible]	-0.[illegible]
31	1110 0001	444.375	462.2	0.0	0.1	23.2	455.1	7.0
32	1110 0000	460.000	462.8	-0.1	0.1	0.6	471.0	-8.[illegible]
33	1101 1111	475.625	486.7	-0.2	-0.1	23.9	486.8	-0.1
34	1101 1110	491.250	494.4	-0.0	-0.1	7.7	502.7	-8.[illegible]
35	1101 1101	506.875	523.5	-0.0	0.0	29.0	518.5	[illegible]
36	1101 1100	522.500	534.3	0.1	0.2	10.8	[illegible]	-0.1
37	1101 1011	538.125	553.7	-0.7	-0.1	18.9	[illegible]	[illegible]
38	1101 1010	553.750	562.5	-0.1	0.0	9.3	[illegible]	-3.6
39	1101 1001	569.375	588.7	0.1	0.1	26.2	581.9	6.8
40	1101 1000	585.000	593.8	0.1	0.1	5.1	[illegible]	-3.9
41	1101 0111	600.625	614.2	-0.1	0.0	20.3	613.6	0.6
42	1101 0110	616.250	624.2	-0.1	-0.1	10.0	[illegible]	-5.[illegible]
43	1101 0101	631.875	651.2	-0.0	-0.3	26.9	[illegible]	[illegible]
44	1101 0100	647.500	665.2	0.1	0.1	14.0	[illegible]	4.1
45	1101 0011	663.125	680.6	0.1	0.2	15.4	677.0	3.6
46	1101 0010	678.750	692.7	-0.1	0.0	12.1	[illegible]	-0.1
47	1101 0001	694.375	716.3	-0.2	-0.1	23.6	[illegible]	[illegible]
48	1101 0000	710.000	728.1	-0.0	-0.2	11.8	[illegible]	[illegible]
49	1100 1111	725.625	741.2	0.2	0.1	13.1	740.4	0.9
50	1100 1110	741.250	749.3	0.1	0.1	8.1	[illegible]	[illegible]
51	1100 1101	756.875	778.0	-0.1	0.0	28.7	772.0	[illegible]

ORIGINAL PAGE IS OF POOR QUALITY

1981/11/30 10:47:24 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

13:57:13:59:48 A/D THRESHOLD TEST COMMAND= 1 REFERENCE= 2

HAC TEST S27

11/30/81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
52	1100 1100	772.500	792.0	-0.1	-0.1	13.9	787.9	4.1
53	1100 1011	788.125	807.5	0.0	0.0	15.5	803.7	3.7
54	1100 1010	803.750	817.4	0.0	0.1	9.9	819.6	-2.2
55	1100 1001	819.375	843.0	0.0	0.1	25.6	835.4	7.6
56	1100 1000	835.000	852.4	-0.2	-0.1	9.4	851.3	1.1
57	1100 0111	850.625	868.2	0.0	-0.1	15.8	867.1	1.1
58	1100 0110	866.250	878.4	0.0	0.0	10.2	883.0	-3.6
59	1100 0101	881.875	903.6	0.8	1.3	25.2	898.8	4.8
60	1100 0100	897.500	922.0	-0.1	-0.0	18.4	914.7	7.3
61	1100 0011	913.125	934.3	-0.1	-0.1	12.3	930.5	3.8
62	1100 0010	928.750	946.6	-0.1	-0.1	12.3	946.4	0.3
63	1100 0001	944.375	969.7	0.0	0.1	23.1	962.2	7.5
64	1100 0000	960.000	979.9	0.3	0.2	10.1	978.0	1.8
65	1011 1111	975.625	997.1	-0.1	0.0	17.2	993.9	3.2
66	1011 1110	991.250	1004.8	-0.1	-0.1	7.7	1009.7	-4.9
67	1011 1101	1006.88	1032.6	-0.1	-0.1	27.8	1025.6	7.0
68	1011 1100	1022.50	1043.7	0.2	0.2	11.1	1041.4	2.3
69	1011 1011	1038.13	1063.4	0.1	0.1	19.7	1057.3	6.1
70	1011 1010	1053.75	1072.1	0.1	0.1	8.7	1073.1	-1.0
71	1011 1001	1069.38	1098.7	-0.1	-0.1	26.6	1089.0	9.7
72	1011 1000	1085.00	1100.8	0.1	0.2	2.2	[illegible]	-4.5
73	1011 0111	1100.63	1123.8	0.1	0.1	22.9	1120.7	3.1
74	1011 0110	1116.25	1133.5	-0.0	0.1	9.7	1136.5	[illegible]
75	1011 0101	1131.88	1159.1	-0.1	-0.1	25.6	1152.4	6.8
76	1011 0100	1147.50	1173.9	0.0	0.0	14.8	1168.2	5.7
77	1011 0011	1163.13	1190.1	0.0	0.1	16.2	1184.0	6.1
78	1011 0010	1178.75	1201.4	0.1	0.1	11.3	1199.9	1.5

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE [illegible]

1981/11/30 10:47:24 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] A/D THRESHOLD TEST [illegible]

HAC TEST S27

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO- 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
79	1011 0001	1194.38	1225.8	-0.4	-0.6	24.4	1215.7	10.1
80	1011 0000	1210.00	1236.5	-0.2	-0.2	10.6	1231.6	4.9
81	1010 1111	1225.63	1250.1	0.1	0.0	13.6	1247.4	2.7
82	1010 1110	1241.25	1257.9	0.0	0.0	7.8	1263.3	-5.3
83	1010 1101	1256.88	1287.1	-1.7	-1.6	29.1	1279.1	7.9
84	1010 1100	1272.50	1299.8	-0.2	-0.1	12.7	1295.0	4.8
85	1010 1011	1288.13	1316.3	-0.1	-0.1	16.5	1310.8	5.5
86	1010 1010	1303.75	1325.9	0.0	-0.1	9.5	1326.7	-0.8
87	1010 1001	1319.38	1351.4	0.1	0.1	25.5	1342.5	8.9
88	1010 1000	1335.00	1357.5	-0.1	0.0	6.1	1358.3	-0.8
89	1010 0111	1350.63	1376.6	-0.1	-0.1	19.1	1374.2	2.4
90	1010 0110	1366.25	1386.4	0.1	-0.0	9.8	1390.0	-3.6
91	1010 0101	1381.88	1411.8	0.1	0.0	25.4	1405.9	5.9
92	1010 0100	1397.50	1429.6	0.1	0.2	17.8	1421.7	7.9
93	1010 0011	1413.13	1442.7	-0.0	-0.0	13.1	1437.6	5.2
94	1010 0010	1428.75	1454.5	-0.1	-0.1	11.8	1453.4	1.1
95	1010 0001	1444.38	1477.8	0.2	-0.0	23.3	1469.3	8.6
96	1010 0000	1460.00	1484.5	0.2	0.3	6.6	1485.1	-0.6
97	1001 1111	1475.63	1502.1	0.0	0.0	17.6	1501.0	1.2
98	1001 1110	1491.25	1509.3	0.1	-0.0	7.1	1516.8	-7.5
99	1001 1101	1506.88	1537.6	0.0	-0.1	28.3	1532.7	4.9
100	1001 1100	1522.50	1548.8	0.1	0.1	11.3	1548.5	0.[illegible]
101	1001 1011	1538.13	1568.2	0.1	0.0	19.4	1564.3	3.9
102	1001 1010	1553.75	1576.7	0.0	0.1	8.4	1580.2	-3.5
103	1001 1001	1569.38	1603.7	-0.1	-0.1	27.0	1596.0	[illegible]
104	1001 1000	1585.00	1607.8	-0.1	-0.1	4.1	1611.9	-1.1

ORIGINAL PAGE IS OF POOR QUALITY

IS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 145

981/11/30 10:47:24 FINALITY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible]

HAC TEST S27

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
105	1001 0111	1600.63	1628.6	0.1	0.0	20.8	1627.7	0.8
106	1001 0110	1616.25	1637.9	-0.1	0.1	9.3	1643.6	-5.7
107	1001 0101	1631.88	1664.0	-0.0	0.0	26.1	1659.4	4.6
108	1001 0100	1647.50	1679.0	-0.1	-0.1	14.9	1675.3	3.7
109	1001 0011	1663.13	1694.8	0.1	0.0	15.8	1691.1	3.7
110	1001 0010	1678.75	1705.9	-0.1	0.0	11.2	1707.0	-1.0
111	1001 0001	1694.38	1730.0	-0.0	0.0	24.1	1722.8	7.2
112	1001 0000	1710.00	1744.6	-0.1	-0.1	14.6	1738.6	6.0
113	1000 1111	1725.63	1754.9	0.1	-0.0	10.3	1754.5	0.4
114	1000 1110	1741.25	1762.2	0.0	0.0	7.3	1770.3	-8.1
115	1000 1101	1756.88	1790.3	0.0	0.0	28.0	1786.2	4.1
116	1000 1100	1772.50	1804.5	-0.1	0.0	14.2	1802.0	2.5
117	1000 1011	1788.13	1820.9	-0.1	-0.1	16.3	1817.9	3.0
118	1000 1010	1803.75	1830.0	0.2	0.0	9.1	1833.7	-3.7
119	1000 1001	1819.38	1856.3	0.1	0.0	26.3	1849.6	6.7
120	1000 1000	1835.00	1865.4	0.1	0.1	9.1	1865.4	0.0
121	1000 0111	1850.63	1881.2	-0.1	-0.1	15.8	1881.3	-0.0
122	1000 0110	1866.25	1890.6	-0.1	0.0	9.4	1897.1	-6.5
123	1000 0101	1881.88	1916.6	0.0	0.0	26.0	1913.0	3.6
124	1000 0100	1897.50	1934.2	0.0	0.1	17.6	1928.8	5.4
125	1000 0011	1913.13	1947.1	-0.0	0.0	12.9	1944.6	2.5
126	1000 0010	1928.75	1958.6	-0.1	-0.1	11.5	1960.5	-1.9
127	1000 0001	1944.38	1982.5	-0.0	0.6	23.9	1976.3	6.2
128	1000 0000	1960.00	1990.7	0.1	0.1	8.2	1992.2	-1.4
129	0111 1111	1975.63	2004.3	0.0	0.0	13.5	[illegible]	-[illegible].2
130	0111 1110	1991.25	2012.4	-0.1	-0.1	8.1	[illegible]	-11.4

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE [illegible]

1981/11/30 10:47:24 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] A/D THRESHOLD TEST [illegible]

HAC TEST 527

[illegible] 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
131	0111 1101	2006.88	2039.7	0.0	0.0	27.3	2039.7	[illegible]
132	0111 1100	2022.50	2052.4	0.0	0.0	12.7	[illegible]	[illegible]
133	0111 1011	2038.13	2071.3	0.0	0.0	18.9	2071.4	-0.1
134	0111 1010	2053.75	2080.9	-0.0	-0.0	9.6	[illegible]	[illegible]
135	0111 1001	2069.38	2106.0	-0.1	-0.1	25.1	2103.1	2.9
136	0111 1000	2085.00	2108.8	0.0	0.1	2.8	[illegible]	[illegible]
137	0111 0111	2100.63	2131.2	0.1	0.0	22.4	[illegible]	[illegible]
138	0111 0110	2116.25	2141.1	-0.0	0.0	9.8	[illegible]	[illegible]
139	0111 0101	2131.88	2166.3	0.0	0.0	25.2	[illegible]	-0.2
140	0111 0100	2147.50	2182.8	-0.0	0.0	16.5	[illegible]	[illegible]
141	0111 0011	2163.13	2198.1	-0.1	-0.0	15.2	[illegible]	[illegible]
142	0111 0010	2178.75	2210.9	0.0	0.1	12.9	[illegible]	-4.1
143	0111 0001	2194.38	2233.2	0.0	-0.1	22.3	[illegible]	[illegible]
144	0111 0000	2210.00	2241.7	-0.2	0.0	8.5	[illegible]	-4.0
145	0110 1111	2225.63	2257.2	-0.0	-0.0	15.5	[illegible]	-4.4
146	0110 1110	2241.25	2265.6	-0.1	-0.0	8.4	[illegible]	[illegible]
147	0110 1101	2256.88	2292.7	-0.0	-0.0	27.1	[illegible]	[illegible]
148	0110 1100	2272.50	2308.5	0.1	0.0	15.7	[illegible]	[illegible]
149	0110 1011	2288.13	2324.2	0.0	-0.0	15.7	[illegible]	[illegible]
150	0110 1010	2303.75	2334.6	0.0	0.0	10.4	[illegible]	[illegible]
151	0110 1001	2319.38	2358.8	-0.0	0.0	24.2	[illegible]	[illegible]
152	0110 1000	2335.00	2364.5	0.0	0.1	5.6	[illegible]	[illegible]
153	0110 0111	2350.63	2384.0	0.0	0.1	19.5	[illegible]	[illegible]
154	0110 0110	2366.25	2394.2	0.0	0.0	10.2	[illegible]	-10.
155	0110 0101	2381.88	2419.1	0.1	0.1	24.9	[illegible]	[illegible]
156	0110 0100	2397.50	2438.9	0.0	-0.0	19.8	[illegible]	[illegible]
157	0110 0011	2413.13	2450.8	-0.0	-0.0	11.9	[illegible]	-6.9

ORIGINAL PAGE IS OF POOR QUALITY

1981/11/30 10:47:24 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

24-5-28-5---4 A/D THRESHOLD TEST (BAND- 3 - [illegible] 9 21:36:01

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
158	0110 0010	2428.75	2464.4	-0.1	-0.1	13.6	2467.6	-3.2
159	0110 0001	2444.38	2485.8	-0.0	0.0	21.4	2483.4	2.4
160	0110 0000	2460.00	2489.4	0.0	-0.1	3.6	2499.2	-9.9
161	0101 1111	2475.63	2509.5	0.0	0.0	20.1	2515.1	-5.6
162	0101 1110	2491.25	2517.3	0.0	-0.0	7.8	2530.9	-13.7
163	0101 1101	2506.88	2545.1	0.1	0.1	27.8	2546.8	-1.7
164	0101 1100	2522.50	2557.9	-0.1	-0.1	12.7	2562.6	-4.8
165	0101 1011	2538.13	2576.5	0.1	0.0	18.6	2578.5	-2.0
166	0101 1010	2553.75	2585.6	-0.1	0.0	9.2	2594.3	-8.7
167	0101 1001	2569.38	2611.4	0.0	-0.1	25.7	2610.2	1.2
168	0101 1000	2585.00	2617.5	-0.0	0.0	6.1	2626.0	-8.5
169	0101 0111	2600.63	2636.5	-0.1	-0.0	19.0	2641.9	-5.4
170	0101 0110	2616.25	2645.7	-0.1	0.0	9.2	2657.7	-12.0
171	0101 0101	2631.88	2671.8	-0.1	-0.1	26.0	2673.6	-1.8
172	0101 0100	2647.50	2688.3	0.1	-0.1	16.5	2689.4	-1.1
173	0101 0011	2663.13	2703.4	0.1	0.1	15.1	2705.2	-1.9
174	0101 0010	2678.75	2715.5	0.0	0.1	12.1	2721.1	-5.6
175	0101 0001	2694.38	2738.2	-0.1	-0.1	22.6	2736.9	1.2
176	0101 0000	2710.00	2750.9	0.0	0.0	12.7	2752.8	-1.9
177	0100 1111	2725.63	2762.5	0.1	0.1	11.6	2768.6	[illegible]
178	0100 1110	2741.25	2770.4	0.0	0.0	7.9	2784.5	-14.1
179	0100 1101	2756.88	2800.0	-0.1	-1.9	29.6	2800.3	-0.3
180	0100 1100	2772.50	2814.4	-0.0	-0.0	14.4	2816.2	-1.8
181	0100 1011	2788.13	2829.4	0.0	0.0	15.0	2832.0	-2.6
182	0100 1010	2803.75	2839.1	-0.0	0.0	9.7	2847.9	-8.8
183	0100 1001	2819.38	2864.4	0.1	0.0	25.3	2863.7	0.7

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST 527

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL .. FLT. S/N 3 PAGE [illegible]

1981/11/30 10:47:24 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] A/D THRESHOLD TEST [illegible]

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
184	0100 1000	2835.00	2873.2	-0.0	0.0	8.8	2829.6	-4.4
185	0100 0111	2850.63	2889.5	-0.1	-0.1	16.3	2845.4	-4.9
186	0100 0110	2866.25	2899.1	0.0	-0.0	9.6	2911.7	-12.2
187	0100 0101	2881.88	2924.8	0.1	0.1	25.7	2927.1	-2.3
188	0100 0100	2897.50	2944.6	-0.0	0.1	19.7	2942.9	1.6
189	0100 0011	2913.13	2956.5	-0.2	-0.1	12.0	2958.8	-2.2
190	0100 0010	2928.75	2969.4	-0.0	-0.0	12.8	2974.3	-5.1
191	0100 0001	2944.38	2991.4	0.0	-0.0	22.0	2990.5	3.9
192	0100 0000	2960.00	3005.6	0.0	0.1	14.2	3006.3	-0.7
193	0011 1111	2975.63	3018.5	-0.1	0.0	12.8	3022.2	-3.7
194	0011 1110	2991.25	3028.6	-0.1	-0.1	10.1	3038.0	-9.4
195	0011 1101	3006.88	3054.3	-0.1	-0.2	25.8	[illegible]	8.1
196	0011 1100	3022.50	3066.1	-0.1	0.1	11.8	3069.7	-3.6
197	0011 1011	3038.13	3085.9	-0.0	0.1	19.8	[illegible]	8.4
198	0011 1010	3053.75	3094.4	-0.1	0.0	8.5	3101.4	-7.0
199	0011 1001	3069.38	3120.8	-0.2	-0.1	26.4	[illegible]	3.6
200	0011 1000	3085.00	3123.2	-0.0	0.0	2.4	3133.1	-9.9
201	0011 0111	3100.63	3146.1	-0.1	0.1	22.9	3148.9	-2.8
202	0011 0110	3116.25	3155.4	-0.1	0.1	9.3	3164.8	-9.4
203	0011 0101	3131.88	3181.6	-0.1	-0.2	26.2	[illegible]	1.8
204	0011 0100	3147.50	3197.2	-0.2	-0.1	15.6	[illegible]	9.8
205	0011 0011	3163.13	3213.7	0.0	0.0	16.5	3212.3	1.4
206	0011 0010	3178.75	3225.3	0.0	0.1	11.6	[illegible]	2.6
207	0011 0001	3194.38	3248.6	0.0	0.0	23.2	3244.0	-4.5
208	0011 0000	3210.00	3260.5	-0.1	0.0	11.9	3259.9	0.6
209	0010 1111	3225.63	3273.2	-0.0	-0.2	12.8	[illegible]	-2.4

HAC TEST 527

ORIGINAL PAGE IS OF POOR QUALITY

[illegible] A/D THRESHOLD TEST [illegible]

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
210	0010 1110	3241.25	3283.5	0.1	0.1	10.3	[illegible]	[illegible]
211	0010 1101	3256.88	3310.9	0.1	-0.4	27.4	[illegible]	[illegible]
212	0010 1100	3272.50	3324.1	-0.1	0.0	13.2	[illegible]	0.9
213	0010 1011	3288.13	3340.9	-0.1	-0.2	16.8	[illegible]	1.8
214	0010 1010	3303.75	3350.2	-0.0	-0.0	9.3	[illegible]	[illegible]
215	0010 1001	3319.38	3375.9	0.1	0.1	25.7	[illegible]	5.1
216	0010 1000	3335.00	3380.9	-0.0	0.1	5.0	[illegible]	-5.7
217	0010 0111	3350.63	3401.3	-0.3	-0.1	20.4	[illegible]	[illegible]
218	0010 0110	3366.25	3410.9	-0.2	-0.1	9.5	[illegible]	-7.4
219	0010 0101	3381.88	3436.9	-0.1	0.0	26.0	[illegible]	2.8
220	0010 0100	3397.50	3455.8	0.0	0.1	18.9	[illegible]	[illegible]
221	0010 0011	3413.13	3469.2	-0.1	0.1	13.3	[illegible]	[illegible]
222	0010 0010	3428.75	3481.5	-0.1	-0.2	12.4	[illegible]	[illegible]
223	0010 0001	3444.38	3504.1	-0.1	-0.0	22.5	[illegible]	[illegible]
224	0010 0000	3460.00	3511.2	0.1	0.1	7.1	[illegible]	[illegible]
225	0001 1111	3475.63	3528.1	0.2	0.1	16.9	[illegible]	-1.1
226	0001 1110	3491.25	3537.8	-0.2	-0.1	9.6	[illegible]	-7.3
227	0001 1101	3506.88	3566.6	-0.3	-0.2	28.8	[illegible]	[illegible]
228	0001 1100	3522.50	3576.3	0.1	0.0	9.7	[illegible]	[illegible]
229	0001 1011	3538.13	3596.0	0.0	0.2	19.7	[illegible]	3.4
230	0001 1010	3553.75	3604.4	-0.1	0.0	8.4	[illegible]	-4.1
231	0001 1001	3569.38	3631.7	-0.3	-0.2	27.3	[illegible]	7.4
232	0001 1000	3585.00	3637.2	-0.1	-0.1	5.5	[illegible]	-2.9
233	0001 0111	3600.63	3656.9	0.1	0.1	19.6	[illegible]	0.9
234	0001 0110	3616.25	3665.9	0.1	0.1	9.0	[illegible]	-5.0
235	0001 0101	3631.88	3695.0	-0.6	-0.1	29.1	[illegible]	[illegible]
236	0001 0100	3647.50	3708.5	-0.2	-0.1	13.5	[illegible]	[illegible]

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THERMATIC MAPPER MUX UNIT TEST MODEL .. FLT. S/N 3 PAGE [illegible]

1981/11/30 10:47:24 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible]

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO- 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	PENALTY
237	0001 0011	3663.13	3725.2	-0.1	-0.1	16.6	3719.4	[illegible]
238	0001 0010	3678.75	3736.2	0.1	0.1	11.0	[illegible]	0.9
239	0001 0001	3694.38	3760.1	0.0	0.2	29.9	[illegible]	9.0
240	0001 0000	3710.00	3775.8	-0.3	-0.2	15.7	[illegible]	8.2
241	0000 1111	3725.63	3785.3	-0.2	-0.2	9.5	[illegible]	2.6
242	0000 1110	3741.25	3795.0	0.1	0.0	9.6	[illegible]	-3.6
243	0000 1101	3756.88	3823.2	0.0	-0.0	28.2	3814.5	8.8
244	0000 1100	3772.50	3836.9	-0.1	0.1	13.6	[illegible]	6.6
245	0000 1011	3788.13	3853.2	-0.2	-0.1	16.3	[illegible]	7.1
246	0000 1010	3803.75	3862.3	0.1	-0.1	9.0	[illegible]	0.3
247	0000 1001	3819.38	3888.8	0.0	0.2	26.5	[illegible]	10.9
248	0000 1000	3835.00	3897.6	0.1	0.2	8.8	[illegible]	3.9
249	0000 0111	3850.63	3914.4	-0.4	0.0	16.9	[illegible]	4.9
250	0000 0110	3866.25	3923.6	-0.3	-0.3	9.1	[illegible]	-1.3
251	0000 0101	3881.88	3952.4	-0.1	-0.1	28.8	[illegible]	[illegible]
252	0000 0100	3897.50	3969.4	0.0	0.2	17.0	[illegible]	12.3
253	0000 0011	3913.13	3982.5	-0.1	0.2	13.2	[illegible]	9.6
254	0000 0010	3928.75	3994.6	-0.3	-0.1	12.0	[illegible]	[illegible]
255	0000 0001	3944.38	4018.0	-0.4	-0.1	23.4	[illegible]	[illegible]

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27

NOV 30 '81

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE [illegible]

1981/11/30 10:53:47 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 1 [illegible]

S U M M A R Y

CHECK 1) RMS ERROR, 2) THRESHOLD INCREMENT(+/- 0.0 <= THRH INC <= 31.2)
THE REMAINING DATA ARE FOR INFORMATION ONLY

BEST FIT STRAIGHT LINE IS: Y =15.85VX -40.9MV

DEVIATION OF SLOPE FROM IDEAL IS: 1.498%
OFFSET IS:-40.9MV
COEFFICIENT OF DETERMINATION IS: R**2= .99997910
ANALOG INPUT DURING DC RESTORE IS:64.5MV

RMS ERROR = 5.350MV REQMT: RMS ERROR <= [illegible]

THRESHOLD INCREMENT MEASUREMENT

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
28.9MV	115	15.931MV	1.3MV	32	6.900MV

LOWER LIMIT AT OUTPUT LEVELS RATIO = [illegible]

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
0.4MV	47	-0.042MV	-0.4MV	78	.203MV

UPPER LIMIT AT OUTPUT LEVELS RATIO = [illegible]

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
0.6MV	156	-0.019MV	-2.2MV	162	.250MV

TEST PASSED

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL .. FLT. S/N 3 PAGE [illegible]
1981/11/30 10:54:01 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
[illegible]

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
THE FOLLOWING DATA ARE FOR INFORMATION ONLY								
1	1111 1111	-24.375	-29.7	-0.2	0.3		-25.1	-4.7
2	1111 1110	-8.750	-20.9	-0.1	0.2	8.8	-9.7	-11.7
3	1111 1101	6.875	6.5	-0.3	-0.2	27.4	6.7	-0.2
4	1111 1100	22.500	19.7	-0.2	-0.2	12.7	22.5	-2.8
5	1111 1011	38.125	37.3	0.2	0.1	18.1	38.4	-1.1
6	1111 1010	53.750	47.8	0.1	0.2	10.5	54.2	-4.4
7	1111 1001	69.375	73.9	-0.1	0.2	26.1	70.1	3.8
8	1111 1000	85.000	77.7	-0.3	-0.3	3.8	84.0	-8.3
9	1111 0111	100.625	98.8	-0.0	-0.1	21.1	101.8	-3.0
10	1111 0110	116.250	109.5	0.3	0.3	10.7	117.7	-9.7
11	1111 0101	131.875	134.7	0.1	0.2	25.2	133.5	1.2
12	1111 0100	147.500	150.8	-0.3	-0.1	16.1	149.4	1.3
13	1111 0011	163.125	165.6	-0.3	-0.2	14.8	165.2	0.4
14	1111 0010	178.750	178.9	0.0	-0.3	13.2	181.1	-2.3
15	1111 0001	194.375	201.9	0.0	0.1	23.1	197.0	5.0
16	1111 0000	210.000	210.7	-0.1	0.2	8.7	212.8	-2.1
17	1110 1111	225.625	226.7	-0.3	-0.2	16.1	228.7	-2.0
18	1110 1110	241.250	235.7	-0.3	-0.3	9.0	244.5	-8.8
19	1110 1101	256.875	262.4	0.1	-0.0	24.7	260.4	2.0
20	1110 1100	272.500	278.1	0.2	0.2	15.7	276.3	1.8
21	1110 1011	288.125	293.3	0.0	0.3	15.2	292.1	1.1
22	1110 1010	303.750	304.7	-0.4	-0.3	11.4	308.9	-3.2
23	1110 1001	319.375	330.0	-0.1	-0.3	25.3	325.8	[illegible]
24	1110 1000	335.000	336.8	0.2	0.3	6.8	[illegible]	-2.9
25	1110 0111	350.625	354.5	0.1	0.2	17.6	357.6	-3.1

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL .. FLT. S/N 3 PAGE 174

1981/11/30 10:54:01 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] THRESHOLD TEST [illegible]

HAC TEST S27

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
26	1110 0110	366.250	365.9	-0.3	0.1	11.4	371.4	-5.5
27	1110 0101	381.875	390.7	-0.3	-0.3	18.5	387.3	3.4
28	1110 0100	397.500	409.7	-0.1	-0.4	19.0	403.1	6.5
29	1110 0011	413.125	421.2	0.1	0.1	11.5	419.0	2.2
30	1110 0010	428.750	434.6	-0.1	0.3	13.4	434.9	-0.3
31	1110 0001	444.375	457.9	-0.4	-0.4	23.3	450.7	7.2
32	1110 0000	460.000	459.3	-0.3	-0.3	1.3	466.5	-7.3
33	1101 1111	475.625	481.4	0.3	0.1	22.2	482.4	-1.0
34	1101 1110	491.250	489.7	0.3	0.3	8.3	498.2	-8.5
35	1101 1101	506.875	517.4	-0.0	0.3	27.7	514.1	3.3
36	1101 1100	522.500	530.5	-0.3	-0.3	13.1	530.0	0.5
37	1101 1011	538.125	548.6	-0.2	-0.3	18.0	545.9	2.7
38	1101 1010	553.750	558.1	0.3	0.3	9.5	561.7	-3.6
39	1101 1001	569.375	584.5	0.2	0.3	26.4	577.6	6.9
40	1101 1000	585.000	591.1	-0.4	-0.1	6.5	593.4	-2.3
41	1101 0111	600.625	609.5	-0.3	-0.2	18.4	609.3	0.2
42	1101 0110	616.250	620.0	-0.1	-0.3	10.4	625.2	-5.2
43	1101 0101	631.875	645.1	0.1	0.2	25.2	641.0	4.1
44	1101 0100	647.500	661.2	-0.0	0.3	16.1	656.9	4.3
45	1101 0011	663.125	675.9	-0.3	-0.3	14.7	672.7	3.2
46	1101 0010	678.750	688.9	-0.4	-0.3	12.9	688.6	0.3
47	1101 0001	694.375	711.9	0.4	-0.1	23.0	704.5	7.4
48	1101 0000	710.000	724.5	0.2	0.2	12.5	720.3	4.2
49	1100 1111	725.625	736.4	-0.1	0.3	11.9	736.2	0.2
50	1100 1110	741.250	745.2	-0.4	-0.4	8.8	752.0	-6.9
51	1100 1101	756.875	772.4	0.0	-0.2	27.2	767.9	4.5

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 154
1981/11/30 10:54:01 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
[illegible] A/D THRESHOLD TEST (BAND- [illegible] SENSOR-[illegible])

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO-- 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
52	1100 1100	772.500	787.9	0.3	0.3	15.5	[illegible]	[illegible]
53	1100 1011	788.125	802.6	0.4	0.3	14.7	799.6	3.0
54	1100 1010	803.750	813.4	-0.3	0.0	10.8	815.[illegible]	-2.1
55	1100 1001	819.375	839.0	-0.3	-0.2	25.6	831.3	[illegible]
56	1100 1000	835.000	849.3	0.0	-0.3	10.2	847.2	2.1
57	1100 0111	850.625	863.4	0.1	0.3	14.1	863.0	0.4
58	1100 0110	866.250	874.0	-0.1	0.3	10.6	878.9	-4.9
59	1100 0101	881.875	899.4	-0.3	-0.3	25.4	894.8	4.6
60	1100 0100	897.500	918.4	-0.4	-0.3	19.1	9[illegible]0.6	7.8
61	1100 0011	913.125	929.3	0.2	-0.1	10.8	926.5	2.8
62	1100 0010	928.750	942.5	0.3	0.3	13.3	942.3	0.2
63	1100 0001	944.375	965.3	0.1	0.3	22.8	958.2	7.1
64	1100 0000	960.000	977.7	-0.3	-0.3	12.4	974.1	3.7
65	1011 1111	975.625	993.0	0.1	-0.2	15.2	989.9	3.[illegible]
66	1011 1110	991.250	1000.4	0.3	0.3	7.5	1005.8	-5.[illegible]
67	1011 1101	1006.88	1028.2	0.3	0.2	27.7	1021.6	6.[illegible]
68	1011 1100	1022.50	1040.4	-0.3	0.0	12.2	1037.5	[illegible]
69	1011 1011	1038.13	1059.5	-0.4	-0.3	19.1	1053.4	6.1
70	1011 1010	1053.75	1068.3	0.0	-0.3	8.8	1069.2	-0.[illegible]
71	1011 1001	1069.38	1094.8	0.3	0.3	26.5	1085.1	9.8
72	1011 1000	1085.00	1098.8	-0.2	0.2	3.9	1100.9	-2.1
73	1011 0111	1100.63	1119.9	-0.3	-0.3	21.1	1116.8	[illegible]
74	1011 0110	1116.25	1129.6	-0.3	-0.3	9.7	1132.6	-3.1
75	1011 0101	1131.88	1155.0	0.3	-0.0	25.4	1148.5	6.4
76	1011 0100	1147.50	1170.3	0.3	0.2	15.3	1164.4	[illegible]
77	1011 0011	1163.13	1185.6	-0.1	0.3	15.3	1180.2	[illegible]
78	1011 0010	1178.75	1198.6	-0.4	-0.4	13.0	1196.1	[illegible]

HAC TEST 527

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 155

1981/11/30 10:54:01 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 1 , SENSOR-1)

HAC TEST S27

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
79	1011 0001	1194.38	1221.7	0.1	-0.1	23.1	1211.9	9.8
80	1011 0000	1210.00	1233.1	0.3	0.3	11.4	1227.8	5.3
81	1010 1111	1225.63	1245.9	0.2	0.2	12.8	1243.7	2.2
82	1010 1110	1241.25	1254.0	-0.4	0.0	8.1	1259.5	-5.5
83	1010 1101	1256.88	1281.7	-0.3	-0.3	27.7	1275.4	6.3
84	1010 1100	1272.50	1296.5	0.0	-0.3	14.7	1291.2	5.2
85	1010 1011	1288.13	1312.1	0.3	0.3	15.6	1307.1	5.0
86	1010 1010	1303.75	1322.1	-0.0	0.2	10.0	1323.0	-0.9
87	1010 1001	1319.38	1348.0	-0.3	-0.2	25.9	1338.8	9.2
88	1010 1000	1335.00	1354.7	-0.2	-0.3	6.6	1354.7	-0.0
89	1010 0111	1350.63	1372.5	0.3	-0.0	17.8	1370.5	1.9
90	1010 0110	1366.25	1382.3	0.3	0.3	9.9	1386.4	-4.1
91	1010 0101	1381.88	1407.9	-0.1	0.3	25.6	1402.3	5.7
92	1010 0100	1397.50	1426.5	-0.3	-0.3	18.6	1418.1	8.4
93	1010 0011	1413.13	1438.7	0.1	-0.2	12.1	1434.0	4.7
94	1010 0010	1428.75	1451.5	0.3	0.2	12.8	1449.8	1.6
95	1010 0001	1444.38	1474.3	0.2	0.1	22.8	1465.7	8.6
96	1010 0000	1460.00	1481.0	-0.3	0.0	6.7	1481.5	-0.6
97	1001 1111	1475.63	1498.4	-0.3	-0.3	17.4	1497.4	1.0
98	1001 1110	1491.25	1505.8	-0.1	-0.5	7.4	1513.3	-7.5
99	1001 1101	1506.88	1533.9	0.2	0.3	28.2	1529.1	4.8
100	1001 1100	1522.50	1545.5	0.0	0.3	11.6	1545.0	0.5
101	1001 1011	1538.13	1564.6	-0.1	-0.1	19.0	1560.8	3.7
102	1001 1010	1553.75	1573.3	-0.3	-0.3	8.7	1576.7	-3.4
103	1001 1001	1569.38	1599.9	0.3	-0.0	26.7	1592.6	7.4
104	1001 1000	1585.00	1605.3	0.3	0.3	5.3	1608.4	-3.1

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE [illegible]
1981/11/30 10:54:01 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
[illegible] A/D THRESHOLD TEST (BAND-- [illegible]

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO- 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
105	1001 0111	1600.63	1624.7	0.0	0.3	19.4	1624.9	0.4
106	1001 0110	1616.25	1634.3	-0.3	-0.3	9.5	1630.1	-5.9
107	1001 0101	1631.88	1660.6	0.1	-0.2	26.3	1656.0	4.5
108	1001 0100	1647.50	1675.5	0.3	0.3	14.9	1671.9	3.6
109	1001 0011	1663.13	1690.8	0.3	0.3	15.3	1687.7	3.1
110	1001 0010	1678.75	1703.3	-0.3	-0.0	12.5	1703.6	-0.3
111	1001 0001	1694.38	1726.9	-0.3	-0.3	23.6	1719.4	7.5
112	1001 0000	1710.00	1742.0	0.0	0.1	15.1	17[illegible]	6.7
113	1000 1111	1725.63	1750.9	0.2	0.2	8.9	1751.2	-0.2
114	1000 1110	1741.25	1758.3	0.1	0.5	7.3	1767.0	-8.7
115	1000 1101	1756.88	1787.1	-0.3	-0.4	28.9	1782.9	4.3
116	1000 1100	1772.50	1801.7	-0.2	-0.2	14.6	1798.7	3.0
117	1000 1011	1788.13	1817.2	0.2	-0.1	15.4	1814.6	2.6
118	1000 1010	1803.75	1826.8	0.1	0.2	9.6	1830.4	-3.7
119	1000 1001	1819.38	1852.9	-0.3	-0.1	26.1	1846.3	6.6
120	1000 1000	1835.00	1863.2	-0.3	-0.2	10.3	18[illegible]	1.0
121	1000 0111	1850.63	1877.6	-0.1	-0.3	14.5	1878.0	-0.4
122	1000 0110	1866.25	1886.8	0.3	0.3	9.2	18[illegible]	-7.0
123	1000 0101	1881.88	1913.0	0.3	0.3	26.2	1909.7	3.3
124	1000 0100	1897.50	1931.5	-0.3	0.0	18.5	19[illegible]	[illegible]
125	1000 0011	1913.13	1943.5	-0.2	-0.3	12.0	1941.5	[illegible]
126	1000 0010	1928.75	1955.9	0.3	-0.0	12.4	19[illegible]7.3	-1.4
127	1000 0001	1944.38	1979.1	0.2	0.2	23.2	1973.2	6.0
128	1000 0000	1960.00	1988.3	-0.1	0.2	9.1	1989.0	-0.7
129	0111 1111	1975.63	2001.6	-0.3	-0.3	13.3	20[illegible]	-3.3
130	0111 1110	1991.25	2009.3	-0.4	-0.3	7.7	2020.8	-11.9

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 157

1981/11/30 10:54:01 FINALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] THRESHOLD TEST [illegible]

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO- 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
131	0111 1101	2006.88	2036.5	0.2	-0.0	27.2	[illegible]	-0.1
132	0111 1100	2022.50	2049.9	0.2	0.2	13.4	[illegible]	-2.6
133	0111 1011	2038.13	2068.4	-0.3	-0.1	18.5	2068.3	0.1
134	0111 1010	2053.75	2078.0	-0.3	-0.3	9.6	2084.2	-6.2
135	0111 1001	2069.38	2103.8	-0.1	-0.2	25.7	2100.0	3.7
136	0111 1000	2085.00	2106.7	0.2	0.1	3.0	2115.9	-9.2
137	0111 0111	2100.63	2128.4	0.2	0.2	21.7	2131.8	-3.3
138	0111 0110	2116.25	2137.9	-0.3	-0.1	9.4	2147.6	-9.8
139	0111 0101	2131.88	2163.6	-0.3	-0.3	25.7	2163.5	0.1
140	0111 0100	2147.50	2179.8	0.3	0.0	16.2	2179.3	0.5
141	0111 0011	2163.13	2194.7	0.2	0.2	14.9	[illegible]	-0.5
142	0111 0010	2178.75	2207.6	-0.0	0.1	12.9	2211.1	-3.4
143	0111 0001	2194.38	2230.7	-0.2	-0.3	23.0	[illegible]	3.7
144	0111 0000	2210.00	2239.4	-0.3	-0.3	8.7	2242.8	-3.4
145	0110 1111	2225.63	2254.5	0.1	-0.0	15.1	[illegible]	-4.2
146	0110 1110	2241.25	2262.3	0.1	0.1	7.8	[illegible]	-12.2
147	0110 1101	2256.88	2290.0	-0.3	-0.1	27.7	2290.4	-0.4
148	0110 1100	2272.50	2306.3	-0.3	-0.3	16.3	[illegible]	0.0
149	0110 1011	2288.13	2321.4	-0.0	-0.3	15.1	2322.1	-0.7
150	0110 1010	2303.75	2331.6	0.2	0.1	10.2	2337.9	-6.3
151	0110 1001	2319.38	2356.5	0.1	0.2	24.9	[illegible]	[illegible]
152	0110 1000	2335.00	2362.7	-0.3	-0.1	6.1	2369.7	-7.0
153	0110 0111	2350.63	2381.5	-0.2	-0.2	18.9	[illegible]	-4.0
154	0110 0110	2366.25	2390.8	0.2	-0.1	9.2	[illegible]	-10.6
155	0110 0101	2381.88	2416.3	0.2	0.1	21.6	[illegible]	-0.9
156	0110 0100	2397.50	2435.8	0.1	0.6	19.4	[illegible]	2.7
157	0110 0011	2413.13	2447.8	-0.2	-0.3	12.1	[illegible]	-1.1

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL .. FLT. S/N 3 PAGE [illegible]

1981/11/30 10:54:01 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible]

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO-- 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
158	0110 0010	2428.75	2461.2	-0.2	-0.2	13.3	2464.8	-3.6
159	0110 0001	2444.38	2483.3	0.2	0.1	22.1	2486.7	2.7
160	0110 0000	2460.00	2486.9	0.2	0.2	3.6	2496.5	-9.6
161	0101 1111	2475.63	2507.2	-0.2	-0.0	20.3	2512.4	-5.2
162	0101 1110	2491.25	2516.4	-0.3	-2.2	9.2	2528.2	-11.8
163	0101 1101	2506.88	2542.8	0.1	-0.2	26.3	2544.1	-1.3
164	0101 1100	2522.50	2555.6	0.2	0.2	12.8	2560.0	-4.4
165	0101 1011	2538.13	2574.0	0.1	0.1	18.4	2575.8	-1.8
166	0101 1010	2553.75	2582.9	-0.2	0.0	8.8	2591.7	-8.8
167	0101 1001	2569.38	2609.1	-0.3	-0.3	26.3	2607.5	1.6
168	0101 1000	2585.00	2615.5	0.2	0.0	6.4	2623.4	-7.9
169	0101 0111	2600.63	2634.0	0.2	0.2	18.5	2639.3	-5.3
170	0101 0110	2616.25	2642.6	0.0	0.1	8.6	2655.1	-12.5
171	0101 0101	2631.88	2669.2	-0.2	-0.2	26.6	2671.0	-1.7
172	0101 0100	2647.50	2685.9	-0.2	-0.2	16.7	2686.8	0.9
173	0101 0011	2663.13	2700.7	0.1	-0.0	14.8	2702.7	2.0
174	0101 0010	2678.75	2712.6	0.1	0.2	11.9	2718.5	-5.9
175	0101 0001	2694.38	2736.4	-0.2	0.0	23.8	2734.4	2.0
176	0101 0000	2710.00	2748.9	-0.3	-0.3	12.5	2750.3	-1.4
177	0100 1111	2725.63	2760.2	-0.1	-0.1	11.3	2766.1	-5.9
178	0100 1110	2741.25	2767.3	0.2	0.2	7.1	2782.0	-14.7
179	0100 1101	2756.88	2795.9	0.1	0.1	28.5	2797.8	-2.0
180	0100 1100	2772.50	2812.2	-0.2	-0.1	16.4	2813.7	-1.5
181	0100 1011	2788.13	2827.2	-0.1	-0.1	14.9	2829.6	-2.4
182	0100 1010	2803.75	2836.5	0.1	-0.0	9.3	2845.5	8.9
183	0100 1001	2819.38	2862.1	0.2	0.1	25.5	2861.3	0.8

ORIGINAL PAGE IS OF POOR QUALITY

S-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 159
981/11/30 10:54:01 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
[illegible] A/D THRESHOLD [illegible]

HAC TEST 527

RESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO- 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
184	0100 1000	2835.00	2871.3	-0.1	-0.0	9.2	2877.1	-5.8
185	0100 0111	2850.63	2887.3	-0.2	-0.1	16.0	2893.0	-5.7
186	0100 0110	2866.25	2896.2	-0.3	-0.2	8.9	2908.9	-12.6
187	0100 0101	2881.88	2922.4	0.1	-0.1	26.2	2924.7	2.3
188	0100 0100	2897.50	2942.3	0.1	0.1	19.9	2940.6	1.8
189	0100 0011	2913.13	2954.1	-0.2	-0.1	11.7	2956.4	2.4
190	0100 0010	2928.75	2966.5	-0.1	-0.1	12.4	2972.3	-5.8
191	0100 0001	2944.38	2989.7	-0.1	-0.1	23.2	2988.2	1.6
192	0100 0000	2960.00	3004.6	0.1	0.1	14.9	3004.0	0.6
193	0011 1111	2975.63	3016.4	0.1	0.1	11.8	3019.9	-3.5
194	0011 1110	2991.25	3025.4	-0.1	-0.0	9.0	3035.[illegible]	-10.3
195	0011 1101	3006.88	3052.3	-0.2	-0.1	26.9	3051.6	0.8
196	0011 1100	3022.50	3064.4	0.1	0.0	12.1	3067.4	-5.0
197	0011 1011	3038.13	3083.8	0.1	0.1	19.4	3083.3	0.5
198	0011 1010	3053.75	3092.0	-0.1	0.1	8.2	3099.2	-7.1
199	0011 1001	3069.38	3119.0	-0.2	0.1	26.9	3115.0	3.9
200	0011 1000	3085.00	3121.8	-0.2	-0.2	2.8	3130.9	-9.1
201	0011 0111	3100.63	3144.3	0.0	-0.0	22.5	3146.7	-2.5
202	0011 0110	3116.25	3152.7	0.0	0.0	8.4	3162.6	9.9
203	0011 0101	3131.88	3179.6	-0.1	0.1	26.9	3178.5	1.1
204	0011 0100	3147.50	3195.1	-0.1	-0.1	15.5	3194.3	0.8
205	0011 0011	3163.13	3211.5	0.0	-0.1	16.4	3210.2	1.4
206	0011 0010	3178.75	3222.9	0.1	0.1	11.3	[illegible]	-3.2
207	0011 0001	3194.38	3247.1	0.0	0.1	24.2	[illegible]	5.2
208	0011 0000	3210.00	3258.5	0.0	-0.0	11.4	[illegible]	[illegible]
209	0010 1111	3225.63	3271.3	-0.1	-0.1	12.8	3273.6	[illegible]

ORIGINAL PAGE IS OF POOR QUALITY

1981/11/30 10:54:01 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] THRESHOLD TEST CHANNEL [illegible]

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
210	0010 1110	3241.25	3280.5	0.0	0.0	9.2	[illegible]	[illegible]
211	0010 1101	3256.88	3307.0	0.0	0.3	24.5	[illegible]	[illegible]
212	0010 1100	3272.50	3322.3	-0.0	0.2	15.3	[illegible]	[illegible]
213	0010 1011	3288.13	3339.0	-0.2	-0.1	16.7	[illegible]	2.0
214	0010 1010	3303.75	3347.9	-0.1	-0.1	8.9	[illegible]	[illegible]
215	0010 1001	3319.38	3374.1	-0.0	-0.0	26.2	[illegible]	[illegible]
216	0010 1000	3335.00	3379.5	0.1	0.1	[illegible]	[illegible]	-5.1
217	0010 0111	3350.63	3399.6	-0.1	-0.1	20.0	[illegible]	-0.9
218	0010 0110	3366.25	3408.3	-0.3	-0.3	8.7	3916.3	-8.1
219	0010 0101	3381.88	3435.1	-0.0	-0.0	26.8	[illegible]	2.9
220	0010 0100	3397.50	3453.9	0.1	0.2	18.8	3928.1	5.8
221	0010 0011	3413.13	3467.1	0.0	0.1	13.2	3943.9	3.2
222	0010 0010	3428.75	3479.0	-0.2	-0.0	11.9	3959.8	-0.9
223	0010 0001	3444.38	3502.8	-0.2	-0.1	23.8	3975.6	7.2
224	0010 0000	3460.00	3509.5	0.1	0.1	6.7	[illegible]	-2.0
225	0001 1111	3475.63	3526.4	0.1	0.1	16.9	[illegible]	-1.0
226	0001 1110	3491.25	3535.0	-0.1	0.0	8.6	[illegible]	[illegible]
227	0001 1101	3506.88	3562.9	-0.1	-0.1	27.9	[illegible]	[illegible]
228	0001 1100	3522.50	3575.1	-0.1	-0.1	12.2	3524.9	0.2
229	0001 1011	3538.13	3594.6	-0.1	0.0	19.5	[illegible]	2.8
230	0001 1010	3553.75	3602.3	-0.0	0.1	7.7	[illegible]	-4.3
231	0001 1001	3569.38	3629.6	0.0	-0.0	[illegible]	[illegible]	[illegible]
232	0001 1000	3585.00	3636.0	-0.2	-0.1	6.4	[illegible]	[illegible]
233	0001 0111	3600.63	3655.5	-0.1	0.0	19.[illegible]	[illegible]	1.3
234	0001 0110	3616.25	3663.6	0.0	0.1	8.1	[illegible]	-6.5
235	0001 0101	3631.88	3691.3	0.0	0.1	27.7	[illegible]	5.4
236	0001 0100	3647.50	3707.0	-0.1	0.0	15.6	[illegible]	5.1

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO: 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
237	0001 0011	3663.13	3723.6	-0.1	-0.1	16.6	3717.7	5.9
238	0001 0010	3678.75	3734.3	-0.0	-0.0	10.7	3723.6	8.7
239	0001 0001	3694.38	3758.7	0.2	0.4	24.5	3749.4	9.4
240	0001 0000	3710.00	3774.5	-0.2	0.1	15.7	3765.2	9.2
241	0000 1111	3725.63	3783.5	-0.1	0.0	9.1	3781.1	2.4
242	0000 1110	3741.25	3792.4	0.0	0.0	8.8	3797.0	-4.6
243	0000 1101	3756.88	3820.2	-0.3	-0.1	27.8	3812.8	7.4
244	0000 1100	3772.50	3835.6	-0.1	0.0	15.4	3828.7	6.9
245	0000 1011	3788.13	3851.9	-0.2	0.0	16.3	3844.5	7.4
246	0000 1010	3803.75	3860.4	-0.1	-0.1	8.5	3860.4	0.0
247	0000 1001	3819.38	3887.4	-0.2	-0.0	27.0	3876.3	11.2
248	0000 1000	3835.00	3897.0	-0.0	-0.1	9.6	3892.1	4.9
249	0000 0111	3850.63	3913.0	-0.1	0.0	16.0	3908.0	5.0
250	0000 0110	3866.25	3921.3	-0.1	-0.0	8.3	3923.8	-2.5
251	0000 0101	3881.88	3949.2	-0.3	-0.0	27.9	3939.7	9.5
252	0000 0100	3897.50	3968.1	0.0	0.1	18.8	3955.6	12.5
253	0000 0011	3913.13	3981.2	0.0	0.1	13.1	3971.4	9.8
254	0000 0010	3928.75	3992.6	-0.1	0.0	11.4	3987.3	5.3
255	0000 0001	3944.38	4016.8	-0.1	-0.0	24.2	4003.1	13.7

ORIGINAL PAGE IS OF POOR QUALITY

S-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 162
981/11/30 11:00:24 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
.5.3.5-8 A/D THRESHOLD TEST (BAND- 1 - SENSOR =0)
S U M M A R Y

HAC TEST 527

ECK 1) RMS ERROR, 2) THRESHOLD INCREMENT(+/- 0.0 = THRH INC <= 31.2)
F REMAINING DATA ARE FOR INFORMATION ONLY

BEST FIT STRAIGHT LINE IS: Y =15.814X -36.2MV

DEVIATION OF SLOPE FROM IDEAL IS: 1.206%
OFFSET IS:-36.2MV
COEFFICIENT OF DETERMINATION IS: R**2= .9999/980
ANALOG INPUT DURING DC RESTORE IS:64.4MV

RMS ERROR = 5.046MV REQMT: RMS ERROR <=7.[illegible]

THRESHOLD INCREMENT MEASUREMENT

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
28.6MV	251	15.891MV	1.0MV	200	5.979MV

LOWER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
2.4MV	151	-0.061MV	-3.6MV	234	.453MV

UPPER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
2.1MV	50	0.008MV	-1.0MV	175	.274MV

TEST PASSED

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 163

1981/11/30 11:00:38 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (RANGE= 1 SENSOR= 9)

HAC TEST S27

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
THE FOLLOWING DATA ARE FOR INFORMATION ONLY								
1	1111 1111	-24.375	-25.8	-0.1	0.1		-20.4	-5.4
2	1111 1110	-8.750	-13.8	0.1	0.1	12.0	-4.6	-9.2
3	1111 1101	6.875	9.8	-0.1	0.1	23.7	11.2	-1.3
4	1111 1100	22.500	24.2	-0.1	-0.2	14.4	27.0	-2.8
5	1111 1011	38.125	41.5	-0.2	-0.2	17.3	42.8	-1.3
6	1111 1010	53.750	53.2	0.2	0.1	11.7	58.6	-5.4
7	1111 1001	69.375	76.7	0.1	0.2	23.5	74.4	2.3
8	1111 1000	85.000	82.4	-0.1	-0.1	5.6	90.3	-7.2
9	1111 0111	100.625	102.4	-0.2	-0.1	20.0	106.1	-3.7
10	1111 0110	116.250	114.4	-0.1	-0.1	12.0	121.9	-7.4
11	1111 0101	131.875	137.7	0.0	0.2	23.3	137.7	0.0
12	1111 0100	147.500	155.2	0.1	0.1	17.5	153.5	1.7
13	1111 0011	163.125	169.3	-0.2	0.0	14.0	169.3	-0.0
14	1111 0010	178.750	184.5	-0.2	-0.1	15.2	185.1	-0.7
15	1111 0001	194.375	204.9	0.1	0.0	20.4	201.0	3.9
16	1111 0000	210.000	214.8	0.0	0.1	9.9	216.8	-1.7
17	1110 1111	225.625	229.6	-0.1	0.1	14.7	232.6	3.0
18	1110 1110	241.250	239.9	-0.1	-0.0	10.3	248.4	-8.5
19	1110 1101	256.875	265.3	-0.2	-0.1	25.4	264.2	1.1
20	1110 1100	272.500	281.8	0.0	-0.0	16.5	280.0	1.8
21	1110 1011	288.125	296.6	0.1	0.1	14.8	295.8	0.8
22	1110 1010	303.750	309.4	-0.2	0.0	12.8	311.6	-2.4
23	1110 1001	319.375	332.0	-0.2	-0.1	22.7	327.5	4.6
24	1110 1000	335.000	341.5	0.0	-0.2	9.4	343.3	-1.8
25	1110 0111	350.625	357.4	0.1	0.1	15.9	359.1	-1.7

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 1-4
1981/11/30 11:00:38 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.3.5-8 A/D THRESHOLD TEST (BAND= 1 + SENSOR=5 1

HAC TEST 527

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
26	1110 0110	366.250	369.8	0.1	0.0	12.4	374.9	-5.1
27	1110 0101	381.875	393.0	-0.2	-0.0	23.2	390.7	2.3
28	1110 0100	397.500	413.9	-0.2	-0.1	20.9	406.5	7.4
29	1110 0011	413.125	424.1	0.1	0.0	10.2	422.3	1.8
30	1110 0010	428.750	440.0	0.1	0.2	15.9	438.2	1.8
31	1110 0001	444.375	459.8	-0.1	0.1	19.8	454.0	5.8
32	1110 0000	460.000	464.5	-0.0	-0.0	4.7	469.8	-5.3
33	1101 1111	475.625	484.1	-0.3	-0.2	19.6	485.6	-1.5
34	1101 1110	491.250	495.4	0.1	-0.0	11.4	501.4	-6.0
35	1101 1101	506.875	519.7	0.0	0.1	24.2	517.2	2.4
36	1101 1100	522.500	533.5	-0.2	0.1	13.8	533.0	0.5
37	1101 1011	538.125	551.0	-0.1	-0.0	17.5	548.9	2.2
38	1101 1010	553.750	562.0	0.0	-0.0	10.9	564.7	-2.7
39	1101 1001	569.375	586.1	0.1	0.1	24.1	580.5	5.6
40	1101 1000	585.000	594.3	0.0	0.0	8.3	596.3	-2.0
41	1101 0111	600.625	611.7	-0.2	-0.0	17.3	612.1	-0.4
42	1101 0110	616.250	623.1	-0.2	-0.1	11.4	627.9	-4.8
43	1101 0101	631.875	646.8	0.2	0.0	23.7	643.7	3.1
44	1101 0100	647.500	664.8	0.0	0.0	17.9	659.5	5.2
45	1101 0011	663.125	678.3	-0.1	0.1	13.5	675.4	2.9
46	1101 0010	678.750	692.7	-0.2	-0.1	14.4	691.2	1.5
47	1101 0001	694.375	713.5	-0.2	-0.2	20.8	707.0	-.5
48	1101 0000	710.000	727.1	0.1	0.0	13.6	722.8	4.3
49	1100 1111	725.625	738.0	0.1	0.1	10.8	738.6	-0.6
50	1100 1110	741.250	747.8	-0.1	2.1	9.8	754.4	-6.4
51	1100 1101	756.875	773.6	-0.1	-0.1	25.8	770.2	3.4

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 16[illegible]

1981/11/30 11:00:38 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.[illegible] A/D THRESHOLD TEST (BAND= [illegible]

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	[illegible] POINT	[illegible] DEVIATION
52	1100 1100	772.500	790.1	0.1	0.0	16.5	786.1	4.1
53	1100 1011	788.125	804.5	0.1	0.1	14.4	801.9	2.7
54	1100 1010	803.750	816.6	0.0	0.1	12.0	817.7	1.1
55	1100 1001	819.375	839.8	-0.2	-0.0	23.2	833.5	6.3
56	1100 1000	835.000	851.7	-0.1	-0.1	11.9	849.3	2.4
57	1100 0111	850.625	864.8	0.1	0.0	13.1	865.1	-0.3
58	1100 0110	866.250	876.5	0.1	0.1	11.7	880.9	-4.4
59	1100 0101	881.875	900.1	0.0	0.2	23.5	896.7	3.3
60	1100 0100	897.500	921.4	-0.1	-0.1	21.3	912.6	8.8
61	1100 0011	913.125	931.2	-0.2	-0.1	9.8	928.4	2.8
62	1100 0010	928.750	946.2	0.1	-0.0	15.0	944.2	2.0
63	1100 0001	944.375	966.1	0.2	0.2	19.9	960.0	6.1
64	1100 0000	960.000	978.8	-0.1	0.0	12.7	975.8	3.0
65	1011 1111	975.625	993.9	-0.1	-0.1	15.2	991.6	2.3
66	1011 1110	991.250	1004.8	0.0	-0.2	10.8	1007.4	-2.7
67	1011 1101	1006.88	1028.9	0.1	0.2	24.2	1023.2	5.7
68	1011 1100	1022.50	1042.5	0.2	0.1	13.5	1039.1	3.4
69	1011 1011	1038.13	1060.7	-0.1	-0.1	18.2	1054.9	5.8
70	1011 1010	1053.75	1070.6	-0.1	-0.2	9.8	1070.7	-0.1
71	1011 1001	1069.38	1094.9	0.2	-0.0	24.3	1086.5	8.4
72	1011 1000	1085.00	1099.7	0.1	0.1	4.7	1102.3	-2.7
73	1011 0111	1100.63	1120.6	0.0	0.1	20.9	1118.1	2.4
74	1011 0110	1116.25	1131.1	-0.1	-0.1	10.5	1134.0	-2.9
75	1011 0101	1131.88	1155.4	-0.1	-0.1	23.3	1139.8	5.6
76	1011 0100	1147.50	1172.0	0.1	0.2	16.6	1165.6	6.5
77	1011 0011	1163.13	1187.1	0.1	0.1	15.1	1181.4	5.8
78	1011 0010	1178.75	1200.4	0.1	-0.0	13.3	1197.2	3.2

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 166

1981/11/30 11:00:38 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-3 A/D THRESHOLD TEST (RANGE [illegible])

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO- 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
79	1011 0001	1194.38	1221.5	-0.1	-0.1	21.0	1213.0	8.5
80	1011 0000	1210.00	1234.2	0.1	-0.1	12.7	1228.8	5.4
81	1010 1111	1225.63	1246.1	0.2	0.2	11.8	1244.6	1.4
82	1010 1110	1241.25	1257.5	0.2	0.2	11.4	1260.5	-2.9
83	1010 1101	1256.88	1281.4	-0.1	-0.2	23.8	1276.5	[illegible]
84	1010 1100	1272.50	1297.2	-0.1	-0.1	15.8	[illegible]	[illegible]
85	1010 1011	1288.13	1312.9	0.1	-0.1	15.7	1307.9	[illegible]
86	1010 1010	1303.75	1323.6	0.0	0.1	10.7	[illegible]	-0.1
87	1010 1001	1319.38	1347.0	0.0	0.3	23.4	1339.5	7.5
88	1010 1000	1335.00	1355.8	-0.1	-0.1	8.7	[illegible]	[illegible]
89	1010 0111	1350.63	1372.8	-0.1	-0.1	17.0	[illegible]	1.6
90	1010 0110	1366.25	1383.4	0.1	0.1	10.6	[illegible]	-3.6
91	1010 0101	1381.88	1407.3	0.1	0.1	24.0	[illegible]	[illegible]
92	1010 0100	1397.50	1427.8	-0.3	0.1	20.5	1418.6	9.3
93	1010 0011	1413.13	1439.3	-0.1	-0.2	11.5	[illegible]	[illegible]
94	1010 0010	1428.75	1453.8	0.0	-0.0	14.4	[illegible]	3.5
95	1010 0001	1444.38	1473.3	0.2	0.2	19.6	[illegible]	7.3
96	1010 0000	1460.00	1481.9	0.0	0.0	8.5	[illegible]	0.0
97	1001 1111	1475.63	1497.7	-0.1	-0.1	15.8	1497.7	0.0
98	1001 1110	1491.25	1508.1	-0.2	-0.2	10.4	[illegible]	-5.4
99	1001 1101	1506.88	1534.5	0.3	-0.0	26.4	[illegible]	[illegible]
100	1001 1100	1522.50	1545.7	0.1	0.2	11.2	[illegible]	[illegible]
101	1001 1011	1538.13	1564.3	-0.0	0.1	18.6	1560.9	[illegible]
102	1001 1010	1553.75	1573.7	-0.3	-0.2	9.5	[illegible]	-3.0
103	1001 1001	1569.38	1599.0	-0.1	-0.2	25.3	[illegible]	[illegible]
104	1001 1000	1585.00	1606.1	0.3	0.2	7.1	[illegible]	[illegible]

ORIGINAL PAGE IS OF POOR QUALITY

HS-23A THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 147

1981/11/30 11:00:38 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3-5-13-5-F4 A/D THRESHOLD TEST (BAND= 3 , SEGMENT= 2)

HAC TEST 527

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
105	1001 0111	1600.63	1624.1	0.1	0.1	18.0	1624.2	-0.1
106	1001 0110	1616.25	1634.3	-0.1	-0.1	10.2	1640.9	-5.7
107	1001 0101	1631.88	1659.2	-0.2	-0.3	24.9	1665.8	3.5
108	1001 0100	1647.50	1676.1	0.0	-0.3	16.9	1671.6	4.5
109	1001 0011	1663.13	1690.7	0.2	0.3	14.5	1687.4	3.3
110	1001 0010	1678.75	1703.6	0.1	0.1	12.9	1703.2	0.4
111	1001 0001	1694.38	1725.1	-0.2	-0.2	21.5	1719.1	6.1
112	1001 0000	1710.00	1741.4	-0.2	-0.1	16.3	1734.9	6.5
113	1000 1111	1725.63	1749.6	0.1	-0.0	8.2	1750.7	-1.0
114	1000 1110	1741.25	1760.6	0.2	0.2	10.9	1766.5	-5.9
115	1000 1101	1756.88	1786.5	0.0	0.1	25.9	1782.3	4.2
116	1000 1100	1772.50	1800.7	-0.1	-0.2	14.3	1798.1	2.6
117	1000 1011	1788.13	1816.3	-0.1	-0.1	15.6	1813.9	2.4
118	1000 1010	1803.75	1826.8	0.1	0.0	10.4	1829.7	-3.0
119	1000 1001	1819.38	1850.8	0.2	0.2	24.0	1845.6	5.2
120	1000 1000	1835.00	1862.3	-0.0	0.0	11.5	1861.4	0.9
121	1000 0111	1850.63	1876.1	-0.2	-0.2	13.8	1877.2	-1.1
122	1000 0110	1866.25	1886.5	-0.0	-0.2	10.3	1893.0	-6.5
123	1000 0101	1881.88	1910.9	0.2	0.2	24.5	1909.3	2.1
124	1000 0100	1897.50	1931.2	0.2	0.1	20.3	1924.6	6.6
125	1000 0011	1913.13	1942.6	-0.3	-0.2	11.4	1940.4	2.2
126	1000 0010	1928.75	1956.9	-0.1	-0.2	14.2	1956.3	0.6
127	1000 0001	1944.38	1976.7	0.3	-0.0	19.8	1972.1	4.6
128	1000 0000	1960.00	1986.6	0.0	0.0	9.9	1987.9	-1.2
129	0111 1111	1975.63	1999.1	-0.0	0.2	12.4	2003.7	-4.6
130	0111 1110	1991.25	2010.8	-0.4	-0.3	11.7	2019.5	-8.7

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL .. FLT. S/N 3 PAGE 1-8

1981/11/30 11:00:38 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] THERMOFSHOCK TEST [illegible]

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE FITTED	DEVIATION
131	0111 1101	2006.88	2036.3	-0.2	-0.2	2[illegible]	[illegible]	1.0
132	0111 1100	2022.50	2048.6	0.6	0.6	12.3	[illegible]	[illegible]
133	0111 1011	2038.13	2066.2	0.2	0.2	17.7	[illegible]	[illegible]
134	0111 1010	2053.75	2076.6	-0.1	0.0	10.4	[illegible]	-6.2
135	0111 1001	2069.38	2100.2	-0.2	-0.2	23.6	[illegible]	1.6
136	0111 1000	2085.00	2104.4	0.0	-0.2	4.2	2114.4	-10.0
137	0111 0111	2100.63	2126.1	0.2	0.1	21.7	[illegible]	-4.1
138	0111 0110	2116.25	2136.1	0.2	0.2	10.0	[illegible]	-9.9
139	0111 0101	2131.88	2162.7	-0.3	-0.3	26.6	2161.8	0.9
140	0111 0100	2147.50	2178.9	-0.1	-0.1	16.1	[illegible]	1.3
141	0111 0011	2163.13	2192.8	0.2	0.0	13.9	2193.5	-0.6
142	0111 0010	2178.75	2206.8	0.1	0.2	14.0	[illegible]	[illegible]
143	0111 0001	2194.38	2227.0	-0.1	0.2	20.2	2225.1	1.9
144	0111 0000	2210.00	2237.4	-0.1	-0.2	10.4	[illegible]	-3.[illegible]
145	0110 1111	2225.63	2251.6	-0.1	-0.1	14.2	[illegible]	[illegible]
146	0110 1110	2241.25	2263.4	0.2	0.2	11.8	2272.5	-9.1
147	0110 1101	2256.88	2288.4	0.3	0.2	25.0	2286.3	0.1
148	0110 1100	2272.50	2303.8	-0.4	0.0	15.3	2304.2	-0.5
149	0110 1011	2288.13	2318.8	-0.3	-0.3	15.0	[illegible]	[illegible]
150	0110 1010	2303.75	2330.1	-0.0	-0.1	11.4	[illegible]	-5.7
151	0110 1001	2319.38	2352.3	2.4	0.2	[illegible]	[illegible]	0.7
152	0110 1000	2335.00	2360.4	0.2	0.2	8.2	[illegible]	-7.0
153	0110 0111	2350.63	2378.5	-0.3	-0.1	18.0	[illegible]	-4.7
154	0110 0110	2366.25	2388.9	-0.4	-0.3	10.4	[illegible]	-10.[illegible]
155	0110 0101	2381.88	2414.7	0.3	0.1	2[illegible].8	[illegible]	-0.[illegible]
156	0110 0100	2397.50	2434.5	0.2	0.2	19.9	[illegible]	[illegible]
157	0110 0011	2413.13	2444.9	0.1	0.2	10.4	[illegible]	-1.[illegible]

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL .. FLT. S/N 3 PAGE 139

1981/11/30 11:00:38 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] THRESHOLD [illegible] CHANGE [illegible]

NOV 30 '81

THRESHOLD NUMBER	A/D DIGITAL THRESHOLD	TOTAL VOLTAGE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LIN. POINT	DEVIATION
158	0110 0010	2428.75	2460.6	-0.5	-0.3	15.7	2442.3	-1.6
159	0110 0001	2444.38	2479.2	0.0	-0.3	18.6	2478.1	1.1
160	0110 0000	2460.00	2485.1	0.1	0.0	5.8	2493.9	-8.8
161	0101 1111	2475.63	2503.0	0.2	0.2	17.9	2509.7	-6.7
162	0101 1110	2491.25	2514.2	-0.2	0.0	11.1	[illegible]	-11.9
163	0101 1101	2506.88	2540.6	-0.4	-0.3	26.5	2541.4	-0.7
164	0101 1100	2522.50	2554.0	0.0	-0.3	13.3	2557.2	-4.2
165	0101 1011	2538.13	2570.1	0.3	0.3	16.2	2573.0	-2.8
166	0101 1010	2553.75	2580.0	-0.1	0.1	9.9	[illegible]	-8.7
167	0101 1001	2569.38	2606.9	-0.4	-0.4	26.9	2604.6	2.3
168	0101 1000	2585.00	2611.3	-0.3	-0.3	4.4	[illegible]	-9.1
169	0101 0111	2600.63	2629.9	0.2	0.1	18.6	2626.2	-6.3
170	0101 0110	2616.25	2639.6	0.2	0.2	9.6	[illegible]	-12.5
171	0101 0101	2631.88	2666.7	0.1	0.3	27.1	2667.9	-1.2
172	0101 0100	2647.50	2683.4	-0.2	-0.3	16.7	[illegible]	11.1
173	0101 0011	2663.13	2697.2	0.0	-0.3	13.8	[illegible]	[illegible]
174	0101 0010	2678.75	2710.2	0.6	0.0	13.0	[illegible]	[illegible]
175	0101 0001	2694.38	2732.7	0.4	-1.0	[illegible]	[illegible]	[illegible]
176	0101 0000	2710.00	2745.2	-0.4	0.1	12.5	[illegible]	-1.2
177	0100 1111	2725.63	2755.6	-0.3	-0.3	10.4	[illegible]	-7.1
178	0100 1110	2741.25	2767.2	-0.1	-0.6	11.6	2778.6	-11.4
179	0100 1101	2756.88	2792.6	0.3	0.4	25.4	2794.3	-1.7
180	0100 1100	2772.50	2807.9	0.0	0.3	15.3	[illegible]	2.2
181	0100 1011	2788.13	2822.8	-0.3	-0.2	14.9	[illegible]	-5.3
182	0100 1010	2803.75	2833.9	-0.1	-0.3	11.1	[illegible]	7.9
183	0100 1001	2819.38	2859.0	-2.1	-0.0	[illegible]	[illegible]	1.4

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL .. FLT. S/N 3 PAGE 120

1981/11/30 11:00:38 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible]

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) NOMINAL	LEVELS RATIO= 1 :1 LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
184	0100 1000	2835.00	2867.3	0.2	0.2	8.3	2871.4	-6.1
185	0100 0111	2850.63	2882.4	0.1	0.3	15.1	2889.3	-6.9
186	0100 0110	2866.25	2892.6	-0.3	-0.3	10.2	2901.1	-12.5
187	0100 0101	2881.88	2919.5	0.0	-0.4	26.9	2923.9	-1.5
188	0100 0100	2897.50	2939.2	0.3	0.4	19.7	2936.7	2.5
189	0100 0011	2913.13	2949.3	0.3	0.4	10.1	2950.5	3.2
190	0100 0010	2928.75	2964.5	-0.2	-0.1	15.2	2963.3	-1.3
191	0100 0001	2944.38	2985.7	-0.3	-0.2	21.1	2984.1	1.5
192	0100 0000	2960.00	2998.7	0.0	-0.1	13.0	2999.9	-1.3
193	0011 1111	2975.63	3010.7	0.3	0.3	12.0	3015.2	-5.0
194	0011 1110	2991.25	3021.3	0.0	0.4	10.5	3031.4	-10.1
195	0011 1101	3006.88	3048.7	-0.3	-0.3	27.4	3047.4	1.3
196	0011 1100	3022.50	3060.3	-0.3	-0.3	11.6	3063.2	-2.9
197	0011 1011	3038.13	3078.4	0.2	0.1	18.1	3079.8	-0.6
198	0011 1010	3053.75	3087.4	0.3	0.4	9.0	3094.8	-7.4
199	0011 1001	3069.38	3115.0	-2.6	0.4	27.6	3110.6	4.4
200	0011 1000	3085.00	3116.0	-0.4	-0.4	1.0	3126.5	-10.5
201	0011 0111	3100.63	3138.8	-0.1	-0.2	22.8	3142.3	-3.5
202	0011 0110	3116.25	3151.4	-3.3	0.3	12.7	3158.1	-6.6
203	0011 0101	3131.88	3175.6	0.4	0.4	24.1	3173.9	1.7
204	0011 0100	3147.50	3191.2	-0.4	0.0	15.6	3189.7	1.5
205	0011 0011	3163.13	3206.2	-0.3	-0.3	15.0	3205.5	0.7
206	0011 0010	3178.75	3219.1	-0.1	-0.2	12.9	3221.3	-2.2
207	0011 0001	3194.38	3242.1	0.4	0.4	23.0	3237.1	5.0
208	0011 0000	3210.00	3253.1	-0.2	0.2	10.9	3253.0	0.1
209	0010 1111	3225.63	3265.1	-0.3	-0.3	12.0	3268.8	-3.7

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 171
1981/11/30 11:00:38 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
[illegible] A/D THRESHOLD TEST [illegible]

HAC ST 127

10/30/81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO-- 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	[illegible] POINT	[illegible] DEVIATION
210	0010 1110	3241.25	3276.3	-0.4	-0.4	11.2	[illegible]	-8.[illegible]
211	0010 1101	3256.88	3302.7	0.3	-0.0	26.4	[illegible]00.4	[illegible]
212	0010 1100	3272.50	3318.3	0.3	0.4	15.6	[illegible]	2.1
213	0010 1011	3288.13	3332.7	0.0	0.3	14.4	[illegible]	0.7
214	0010 1010	3303.75	3343.5	-0.3	-0.2	10.7	[illegible]37.8	-4.[illegible]
215	0010 1001	3319.38	3370.0	-0.1	-0.4	26.5	[illegible]	[illegible]
216	0010 1000	3335.00	3374.2	0.4	0.3	4.2	[illegible]	-[illegible]
217	0010 0111	3350.63	3393.0	0.2	0.4	18.8	[illegible]	-[illegible]
218	0010 0110	3366.25	3402.9	-0.3	0.0	10.0	3411.1	-8.[illegible]
219	0010 0101	3381.88	3430.6	-0.5	-0.4	27.6	[illegible]	3.6
220	0010 0100	3397.50	3449.6	-0.1	-0.4	19.0	[illegible]	6.[illegible]
221	0010 0011	3413.13	3460.6	0.5	0.5	11.0	[illegible]	[illegible]
222	0010 0010	3428.75	3475.1	0.0	0.4	14.5	3474.[illegible]	0.[illegible]
223	0010 0001	3444.38	3497.6	-0.6	-0.4	22.5	[illegible]90.2	7.4
224	0010 0000	3460.00	3505.3	-0.4	-0.5	7.7	[illegible]	-0.7
225	0001 1111	3475.63	3519.2	0.3	0.0	14.0	[illegible]	-[illegible]
226	0001 1110	3491.25	3529.2	0.4	0.5	10.0	[illegible]	-8.4
227	0001 1101	3506.88	3557.0	-0.0	0.8	27.7	[illegible]	3.6
228	0001 1100	[illegible]	3570.1	-0.3	-0.3	13.1	[illegible]	0.[illegible]
229	0001 1011	3538.13	3587.5	-0.1	-0.2	17.5	[illegible]	2.[illegible]
230	0001 1010	[illegible]	3596.3	0.2	0.2	8.8	[illegible]	-4.[illegible]
231	0001 1001	[illegible]	3624.6	0.3	0.5	28.3	[illegible]	[illegible]
232	0001 1000	[illegible]	3628.6	-0.4	0.0	4.0	[illegible]	-[illegible]
233	0001 0111	3600.63	3648.3	-0.5	-0.4	19.7	[illegible]	0.0
234	0001 0110	3616.25	3661.0	-3.6	-0.4	12.7	[illegible]	-[illegible]
235	0001 0101	3631.88	3685.7	0.2	0.3	[illegible]	3479.9	[illegible]
236	0001 0100	3647.50	3701.1	-0.1	0.3	15.4	[illegible]	5.[illegible]

ORIGINAL PAGE IS OF POOR QUALITY

IS-236 THEMATIC MAPPER MUX UNIT TEST MODEL .. FLT. S/N 3 PAGE 1/2

981/11/30 11:00:38 FINALITY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
237	0001 0011	3663.13	3716.5	-0.3	0.1	15.4	3711.6	4.9
238	0001 0010	3678.75	3729.1	-0.3	-0.4	12.6	3727.4	1.7
239	0001 0001	3694.38	3752.8	0.5	0.0	23.7	[illegible]	9.6
240	0001 0000	3710.00	3767.4	0.3	0.4	14.6	3[illegible]	8.5
241	0000 1111	3725.63	3775.5	-0.0	0.4	8.1	3774.8	0.7
242	0000 1110	3741.25	3786.5	-0.5	-0.4	11.0	3790.6	-4.1
243	0000 1101	3756.88	3814.0	-0.1	-0.4	27.5	3806.4	7.6
244	0000 1100	3772.50	3827.9	0.4	0.5	13.9	3827.2	0.7
245	0000 1011	3788.13	3843.9	0.1	0.4	16.0	3[illegible].1	5.8
246	0000 1010	3803.75	3854.5	-0.3	0.0	10.6	3[illegible]	0.7
247	0000 1001	3819.38	3881.7	-0.8	-0.5	27.2	3869.7	12.0
248	0000 1000	3835.00	3889.9	-0.1	0.3	8.2	[illegible]	4.1
249	0000 0111	3850.63	3904.6	0.4	0.4	14.7	3901.3	3.3
250	0000 0110	3866.25	3914.1	-0.0	0.4	9.5	3917.1	-3.0
251	0000 0101	3881.88	3942.7	-0.5	-0.4	28.6	3932.9	9.8
252	0000 0100	3897.50	3962.1	-0.6	-0.4	19.3	[illegible]	13.1
253	0000 0011	3913.13	3973.3	0.2	-0.1	11.2	3964.6	8.8
254	0000 0010	3928.75	3987.2	0.2	0.5	13.9	3980.4	6.9
255	0000 0001	3944.38	4010.4	-0.6	0.1	23.2	[illegible]	14.2

ORIGINAL PAGE IS OF POOR QUALITY

HS-216 THEMATIC MAPPER MUX UNIT TEST MODEL .. FLT. S/N 3 PAGE 123

1981/11/30 11:07:01 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible]

CHECK 1) RMS ERROR, 2) THRESHOLD INCREMENT(+/- 0.0 = THRH INC [illegible] 31.2)
THE REMAINING DATA ARE FOR INFORMATION ONLY

[illegible]

DEVIATION OF SLOPE FROM IDEAL IS: 1.189%
OFFSET IS:-37.1MV
COEFFICIENT OF DETERMINATION IS: R**2= .99998440
ANALOG INPUT DURING DC RESTORE IS:64.5MV

[illegible]

[illegible]

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
27.8MV	227	15.880MV	3.3MV	200	5.1963MV

[illegible]

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
0.6MV	203	-0.037MV	-1.7MV	58	.3288MV

[illegible]

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
2.9MV	231	0.009MV	-1.2MV	58	.3267MV

TEST PASSED

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL .. FLT. S/N 3 PAGE 1/4
1981/11/30 11:07:14 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
[illegible]

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) NOMINAL	LEVELS RATIO- LOWER	1 :1 UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
THE FOLLOWING DATA ARE FOR INFORMATION ONLY								
1	1111 1111	-24.375	-27.3	-0.5	-0.2		-21.3	-6.0
2	1111 1110	-8.750	-14.3	0.2	0.2	13.0	-5.5	-8.8
3	1111 1101	6.875	8.6	-0.1	0.2	22.9	10.3	-1.7
4	1111 1100	22.500	22.7	-0.3	-0.3	14.1	26.1	-3.4
5	1111 1011	38.125	39.9	-0.3	-0.2	17.2	41.9	-2.0
6	1111 1010	53.750	52.3	0.3	0.0	12.4	57.2	-5.4
7	1111 1001	69.375	75.6	0.2	0.3	23.3	73.5	2.1
8	1111 1000	85.000	81.4	-0.0	0.2	5.8	89.4	-7.9
9	1111 0111	100.625	100.8	-0.2	-0.2	19.4	105.2	-4.3
10	1111 0110	116.250	116.0	-0.1	-0.1	15.2	121.0	-4.7
11	1111 0101	131.875	136.5	0.2	0.2	20.4	136.8	-0.3
12	1111 0100	147.500	154.4	0.1	0.2	17.9	152.6	1.3
13	1111 0011	163.125	167.8	-0.3	0.0	13.4	168.4	-0.6
14	1111 0010	178.750	183.7	-0.3	-0.2	15.9	184.2	-0.5
15	1111 0001	194.375	203.6	-0.1	-0.2	19.9	200.0	3.6
16	1111 0000	210.000	213.6	0.2	0.1	9.9	215.3	-2.3
17	1110 1111	225.625	227.9	-0.1	0.3	14.3	231.6	-3.8
18	1110 1110	241.250	241.7	-0.3	-0.3	13.9	247.5	-5.2
19	1110 1101	256.875	264.0	-0.3	-0.2	22.3	263.3	0.8
20	1110 1100	272.500	280.6	0.2	0.0	16.6	279.1	1.6
21	1110 1011	288.125	294.8	0.2	0.3	14.2	294.9	0.0
22	1110 1010	303.750	308.3	0.0	0.2	13.4	310.7	-2.4
23	1110 1001	319.375	331.0	-0.3	-0.2	22.7	326.5	4.5
24	1110 1000	335.000	340.8	-0.0	-0.2	9.8	342.3	1.5
25	1110 0111	350.625	355.7	0.2	0.3	14.9	353.1	-2.5

ORIGINAL PAGE IS OF POOR QUALITY

1981/11/30 11:07:14 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.1.3.5-8 A/D THRESHOLD TEST (BAND= 1, SENSOR=10)

HAC TFST S27

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
26	1110 0110	366.250	369.8	0.1	0.2	14.1	373.9	-4.2
27	1110 0101	381.875	391.7	-0.3	0.0	21.9	389.8	2.0
28	1110 0100	397.500	412.2	-0.3	-0.3	20.5	405.6	6.7
29	1110 0011	413.125	422.7	0.0	-0.3	10.4	421.4	1.3
30	1110 0010	428.750	439.3	0.2	0.2	16.6	437.2	2.1
31	1110 0001	444.375	458.4	-0.1	0.2	19.1	453.0	5.4
32	1110 0000	460.000	463.4	-0.2	-0.2	5.0	468.8	-5.4
33	1101 1111	475.625	482.5	-0.2	-0.2	19.1	484.6	-2.1
34	1101 1110	491.250	494.8	0.3	0.0	12.3	500.4	-5.7
35	1101 1101	506.875	518.2	0.2	0.3	23.4	516.2	2.0
36	1101 1100	522.500	532.0	-0.0	0.2	13.8	532.1	-0.0
37	1101 1011	538.125	549.4	-0.2	-0.2	17.4	547.9	1.6
38	1101 1010	553.750	561.1	-0.0	-0.2	11.7	563.7	-2.5
39	1101 1001	569.375	584.9	0.2	0.2	23.7	579.5	5.4
40	1101 1000	585.000	593.1	0.2	0.2	8.2	595.3	-2.2
41	1101 0111	600.625	610.0	-0.3	-0.0	16.9	611.1	-1.1
42	1101 0110	616.250	625.1	-0.3	-0.2	15.1	626.9	-1.8
43	1101 0101	631.875	645.8	-0.1	-0.3	20.7	642.7	3.1
44	1101 0100	647.500	663.7	0.2	0.2	17.8	658.5	5.1
45	1101 0011	663.125	676.5	-0.0	0.2	12.8	674.4	2.1
46	1101 0010	678.750	691.8	-0.3	-0.3	15.3	690.2	1.6
47	1101 0001	694.375	712.3	-0.2	-0.2	20.5	706.0	6.3
48	1101 0000	710.000	725.9	0.3	-0.0	13.6	721.8	4.1
49	1100 1111	725.625	736.3	0.2	0.3	10.4	737.6	-1.2
50	1100 1110	741.250	749.3	-0.0	0.3	12.9	753.4	-4.1
51	1100 1101	756.875	772.3	-0.2	-0.2	23.0	769.2	3.1

ORIGINAL PAGE IS OF POOR QUALITY

HS-2[illegible] THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 176
1981/11/30 11:07:14 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
[illegible] THRESHOLD TEST (BAND= 1, SENSOR=10)

HAC TEST 527

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
52	1100 1100	772.500	789.1	-0.1	-0.2	16.8	785.0	4.1
53	1100 1011	788.125	802.8	0.2	0.2	13.7	800.8	2.0
54	1100 1010	803.750	815.4	0.2	0.2	12.6	816.7	-1.2
55	1100 1001	819.375	838.5	-0.2	-0.0	23.1	832.5	6.1
56	1100 1000	835.000	850.9	-0.1	-0.1	12.3	848.3	2.6
57	1100 0111	850.625	863.3	0.0	-0.3	12.5	864.1	-0.7
58	1100 0110	866.250	878.4	-1.7	-1.6	15.0	879.9	-1.5
59	1100 0101	881.875	898.7	-0.0	0.2	20.3	895.7	2.9
60	1100 0100	897.500	919.3	-0.4	-0.3	20.6	911.5	7.8
61	1100 0011	913.125	929.5	-0.2	-0.2	10.2	927.3	2.2
62	1100 0010	928.750	945.2	0.3	0.0	15.7	943.1	2.1
63	1100 0001	944.375	964.8	0.3	0.2	19.5	958.9	5.8
64	1100 0000	960.000	977.8	-0.0	0.1	13.0	974.8	3.1
65	1011 1111	975.625	992.4	-0.3	-0.3	14.5	990.6	1.8
66	1011 1110	991.250	1004.0	-0.0	-0.2	11.7	1006.4	-2.3
67	1011 1101	1006.88	1027.6	0.2	0.2	23.6	1022.2	5.4
68	1011 1100	1022.50	1041.3	0.2	0.2	13.6	1038.0	3.3
69	1011 1011	1038.13	1059.1	-0.2	0.0	17.8	1053.8	5.2
70	1011 1010	1053.75	1069.4	-0.2	-0.1	10.4	1069.6	-0.2
71	1011 1001	1069.38	1093.8	0.2	-0.1	24.3	1085.4	8.3
72	1011 1000	1085.00	1098.5	0.2	0.2	4.7	1101.2	-2.8
73	1011 0111	1100.63	1118.8	0.0	0.2	20.3	1117.1	1.7
74	1011 0110	1116.25	1133.4	-0.3	-0.3	14.6	1132.9	0.5
75	1011 0101	1131.88	1154.2	-0.3	-0.2	20.8	1148.7	5.5
76	1011 0100	1147.50	1171.1	0.2	-0.1	16.8	1164.5	6.6
77	1011 0011	1163.13	1185.4	0.1	0.1	14.4	1180.3	5.1
78	1011 0010	1178.75	1199.3	-0.2	0.0	13.9	1196.1	3.2

ORIGINAL PAGE IS OF POOR QUALITY

NOV 30 '81

ORIGINAL PAGE IS
OF POOR QUALITY

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
79	1011 0001	1194.38	1220.7	-0.2	-0.2	21.3	1211.9	8.7
80	1011 0000	1210.00	1233.0	0.0	-0.1	12.3	1227.7	5.3
81	1010 1111	1225.63	1244.5	0.3	0.2	11.5	1243.5	0.9
82	1010 1110	1241.25	1256.7	0.4	0.3	12.2	1259.4	-2.7
83	1010 1101	1256.88	1280.2	-0.3	-0.1	23.5	1275.2	5.0
84	1010 1100	1272.50	1297.9	-0.3	-0.3	15.7	1291.0	5.0
85	1010 1011	1288.13	1311.0	0.3	0.0	13.1	1306.8	4.2
86	1010 1010	1303.75	1322.4	0.0	0.0	11.4	1322.6	-0.2
87	1010 1001	1319.38	1345.9	0.0	0.3	23.4	1338.4	7.5
88	1010 1000	1335.00	1355.0	-0.1	-0.1	9.1	1354.2	0.8
89	1010 0111	1350.63	1370.9	0.0	0.0	15.9	1370.0	0.8
90	1010 0110	1366.25	1385.7	0.3	0.0	14.8	1385.8	-0.1
91	1010 0101	1381.88	1406.1	0.2	0.3	20.4	1401.7	4.4
92	1010 0100	1397.50	1426.8	-0.2	0.0	20.7	1417.5	9.3
93	1010 0011	1413.13	1437.7	-0.2	-0.2	10.9	1433.3	4.4
94	1010 0010	1428.75	1452.5	-0.1	-0.3	14.9	1449.1	3.5
95	1010 0001	1444.38	1472.3	0.3	0.4	19.8	1464.9	7.4
96	1010 0000	1460.00	1481.1	0.2	0.2	8.8	1480.7	0.4
97	1001 1111	1475.63	1496.4	-0.3	-0.0	15.3	1496.5	-0.1
98	1001 1110	1491.25	1507.3	-0.2	-0.2	10.8	1512.3	-5.1
99	1001 1101	1506.88	1531.5	0.3	-0.0	24.2	1528.1	3.3
100	1001 1100	1522.50	1544.0	0.3	0.3	12.5	1543.9	0.1
101	1001 1011	1538.13	1562.5	0.0	0.3	18.5	1559.8	2.7
102	1001 1010	1553.75	1572.6	-0.3	-0.3	10.1	1575.6	-3.0
103	1001 1001	1569.38	1597.8	-0.3	-0.3	25.2	1591.4	6.4
104	1001 1000	1585.00	1604.8	0.1	0.0	7.0	1607.2	-2.4

[illegible] A/D THRESHOLD TEST (BAND= 1, SENSOR=10)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO- 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
105	1001 0111	1600.63	1622.5	0.2	0.2	17.6	1623.0	-0.5
106	1001 0110	1616.25	1636.6	-0.4	-0.1	14.1	1638.8	-2.3
107	1001 0101	1631.88	1658.0	-0.3	-0.4	21.4	1654.6	3.4
108	1001 0100	1647.50	1675.0	0.0	-0.3	17.0	1670.4	4.6
109	1001 0011	1663.13	1689.0	0.3	0.3	13.9	1686.2	2.7
110	1001 0010	1678.75	1702.1	0.3	0.2	13.2	1702.1	0.1
111	1001 0001	1694.38	1724.1	-0.3	-0.0	21.9	1717.9	6.2
112	1001 0000	1710.00	1740.2	-0.2	-0.2	16.1	1733.7	6.6
113	1000 1111	1725.63	1748.2	0.3	0.0	7.9	1749.5	-1.3
114	1000 1110	1741.25	1759.7	0.3	0.3	11.5	1765.3	-5.6
115	1000 1101	1756.88	1783.4	0.0	0.3	23.7	1781.1	2.3
116	1000 1100	1772.50	1799.4	-0.4	-0.2	16.0	1796.9	2.5
117	1000 1011	1788.13	1814.6	-0.2	-0.1	15.2	1812.7	1.8
118	1000 1010	1803.75	1825.3	0.3	0.0	10.7	1828.5	-3.3
119	1000 1001	1819.38	1849.5	0.2	0.3	24.2	1844.4	5.1
120	1000 1000	1835.00	1861.7	-0.3	-0.1	12.3	1860.2	1.6
121	1000 0111	1850.63	1874.6	-0.3	-0.3	12.8	1876.0	-1.4
122	1000 0110	1866.25	1888.9	0.0	-0.4	14.3	1891.8	-2.9
123	1000 0101	1881.88	1909.5	0.3	0.3	20.6	1907.6	1.9
124	1000 0100	1897.50	1930.0	0.2	0.4	20.5	1923.4	6.6
125	1000 0011	1913.13	1941.0	-0.3	0.0	10.9	1939.2	1.7
126	1000 0010	1928.75	1955.3	-0.3	-0.2	14.4	1955.0	0.3
127	1000 0001	1944.38	1975.5	0.3	-0.0	20.1	1970.8	4.6
128	1000 0000	1960.00	1984.7	0.2	0.2	9.2	1986.7	-2.0
129	0111 1111	1975.63	1997.5	0.0	0.3	12.8	2002.5	-5.0
130	0111 1110	1991.25	2009.8	-0.4	-0.4	12.3	2018.3	-8.4

ORIGINAL PAGE IS OF POOR QUALITY

1981/11/30 11:07:14 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] THRESHOLD TEST (BAND= 1 , SENSOR=10)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1:1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
131	0111 1101	2006.88	2035.0	-0.3	-0.3	25.1	2034.1	0.9
132	0111 1100	2022.50	2047.8	0.3	-0.0	12.8	2049.9	-2.1
133	0111 1011	2038.13	2064.7	0.1	0.1	16.9	2065.7	-1.0
134	0111 1010	2053.75	2075.6	-0.3	0.1	10.9	2081.5	-6.0
135	0111 1001	2069.38	2099.2	-0.3	-0.3	23.7	2097.3	1.9
136	0111 1000	2085.00	2103.2	0.0	-0.4	3.9	2113.1	-10.0
137	0111 0111	2100.63	2124.6	0.2	0.3	21.4	2129.0	-4.4
138	0111 0110	2116.25	2138.8	0.4	0.3	14.2	2144.8	-6.0
139	0111 0101	2131.88	2159.3	-0.3	-0.3	20.5	2160.6	-1.3
140	0111 0100	2147.50	2177.6	0.1	0.0	18.3	2176.4	1.3
141	0111 0011	2163.13	2191.1	0.4	0.0	13.5	2192.2	-1.1
142	0111 0010	2178.75	2205.3	0.3	0.3	14.2	2208.0	-2.7
143	0111 0001	2194.38	2226.0	0.0	0.1	20.6	2223.8	2.1
144	0111 0000	2210.00	2236.2	-0.3	-0.3	10.2	2239.6	-3.4
145	0110 1111	2225.63	2250.3	-0.3	-0.3	14.1	2255.4	-5.2
146	0110 1110	2241.25	2262.4	0.3	0.4	12.1	2271.2	-8.9
147	0110 1101	2256.88	2287.0	0.5	0.4	24.6	2287.1	-0.1
148	0110 1100	2272.50	2302.4	-0.3	0.0	15.4	2302.9	-0.5
149	0110 1011	2288.13	2317.3	-0.3	-0.3	14.9	2318.7	-1.4
150	0110 1010	2303.75	2329.0	-0.0	-0.4	11.7	2334.5	-5.5
151	0110 1001	2319.38	2351.2	0.3	0.3	22.2	2350.3	0.9
152	0110 1000	2335.00	2359.3	0.4	0.3	8.1	2366.1	-6.8
153	0110 0111	2350.63	2377.1	-0.3	-0.3	17.8	2381.9	-4.8
154	0110 0110	2366.25	2391.9	-0.4	-0.4	14.8	2397.7	-5.8
155	0110 0101	2381.88	2411.2	0.4	0.0	19.2	2413.5	-2.4
156	0110 0100	2397.50	2433.3	0.4	0.4	22.1	2429.4	4.0
157	0110 0011	2413.12	2443.3	0.0	0.4	10.0	2445.2	-1.9

ORIGINAL PAGE IS OF POOR QUALITY

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL CALC (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO- 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
158	0110 0010	2428.75	2458.9	-0.2	-0.3	15.6	2461.0	-2.0
159	0110 0001	2444.38	2478.5	-0.4	-0.3	19.5	2476.8	1.7
160	0110 0000	2460.00	2483.3	0.2	0.2	4.8	2492.6	-9.3
161	0101 1111	2475.63	2501.7	0.3	0.3	18.4	2508.4	-6.7
162	0101 1110	2491.25	2513.2	-0.6	-0.0	11.5	2524.2	-11.0
163	0101 1101	2506.88	2539.4	-0.5	-0.4	26.1	2540.0	-0.7
164	0101 1100	2522.50	2552.8	0.0	-0.3	13.4	2555.8	-3.1
165	0101 1011	2538.13	2568.8	0.3	0.3	16.0	2571.7	-2.9
166	0101 1010	2553.75	2578.5	0.4	0.4	9.8	2587.5	-8.9
167	0101 1001	2569.38	2603.4	-0.4	-0.4	24.8	2603.3	0.1
168	0101 1000	2585.00	2610.0	-0.4	-0.3	6.6	2619.1	-9.1
169	0101 0111	2600.63	2628.5	0.3	0.0	18.5	2634.9	-6.4
170	0101 0110	2616.25	2642.2	0.4	0.4	13.7	2650.7	-8.5
171	0101 0101	2631.88	2665.3	0.1	0.4	23.1	2666.5	-1.2
172	0101 0100	2647.50	2682.4	-0.5	-0.4	17.1	2682.3	0.1
173	0101 0011	2663.13	2695.9	-0.4	-0.4	13.5	2698.1	-2.3
174	0101 0010	2678.75	2708.7	0.4	0.5	12.8	2714.0	-5.2
175	0101 0001	2694.38	2729.9	0.3	0.3	21.1	2729.8	0.1
176	0101 0000	2710.00	2744.0	-0.4	-0.1	14.2	2745.6	-1.5
177	0100 1111	2725.63	2754.5	-0.4	-0.3	10.4	2761.4	-6.9
178	0100 1110	2741.25	2766.1	0.0	-0.5	11.7	2777.2	-11.1
179	0100 1101	2756.88	2791.3	0.4	0.3	25.1	2793.0	-1.7
180	0100 1100	2772.50	2806.5	0.2	0.2	15.2	2808.8	-2.3
181	0100 1011	2788.13	2821.4	-0.4	-0.4	14.9	2824.6	-3.2
182	0100 1010	2803.75	2832.4	-0.3	-0.2	10.9	2840.4	-8.1
183	0100 1001	2819.38	2855.2	0.3	0.0	22.9	2856.3	-1.0

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
184	0100 1000	2835.00	2866.5	0.3	0.2	11.2	2872.1	-5.6
185	0100 0111	2850.63	2880.9	-0.1	0.4	14.4	2887.9	-7.0
186	0100 0110	2866.25	2895.6	-0.4	-0.5	14.7	2903.7	-8.1
187	0100 0101	2881.88	2918.0	-0.4	-0.4	22.4	2919.5	-1.5
188	0100 0100	2897.50	2937.9	0.4	0.4	19.9	2935.3	2.6
189	0100 0011	2913.13	2947.9	0.3	0.3	10.0	2951.1	-3.2
190	0100 0010	2928.75	2963.1	-0.5	0.0	15.1	2966.9	-3.8
191	0100 0001	2944.38	2987.7	-0.5	-0.4	19.6	2982.7	-0.0
192	0100 0000	2960.00	2998.4	-0.1	-0.3	15.6	2998.5	-0.2
193	0011 1111	2975.63	3009.6	0.3	0.4	11.2	3014.4	-4.8
194	0011 1110	2991.25	3020.0	0.5	0.5	10.4	3030.2	-10.2
195	0011 1101	3006.88	3047.5	-0.5	-0.5	27.5	3046.0	1.5
196	0011 1100	3022.50	3059.1	-0.4	-0.3	11.6	3061.8	-2.7
197	0011 1011	3038.13	3076.9	0.4	0.1	17.7	3077.6	-0.7
198	0011 1010	3053.75	3086.2	0.3	0.3	9.3	3093.4	-7.2
199	0011 1001	3069.38	3111.3	-0.1	0.3	25.1	3109.2	2.1
200	0011 1000	3085.00	3114.6	-0.4	-0.4	3.3	3125.0	-10.4
201	0011 0111	3100.63	3137.5	-0.4	-0.4	22.9	3140.8	-3.3
202	0011 0110	3116.25	3150.2	0.4	0.5	12.7	3156.7	-6.5
203	0011 0101	3131.88	3174.0	0.6	0.6	23.8	3172.5	1.5
204	0011 0100	3147.50	3190.0	-0.4	0.1	15.9	3188.3	1.7
205	0011 0011	3163.13	3204.9	-0.5	-0.4	15.0	3204.1	0.8
206	0011 0010	3178.75	3217.6	-0.1	-0.5	12.6	3219.9	-2.3
207	0011 0001	3194.38	3239.0	0.3	0.4	21.4	3235.7	3.3
208	0011 0000	3210.00	3251.6	0.4	0.4	12.6	3251.5	0.1
209	0010 1111	3225.63	3264.0	-0.4	-0.4	12.4	3267.3	-3.3

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) NOMINAL	LEVELS RATIO= 1 :1 LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
210	0010 1110	3241.25	3274.7	0.1	-0.0	10.6	3283.1	-8.5
211	0010 1101	3256.38	3301.2	0.4	-0.1	26.6	3299.0	2.3
212	0010 1100	3272.50	3315.0	0.4	0.6	13.8	3314.8	0.3
213	0010 1011	3288.13	3331.1	-0.0	0.5	16.1	3330.6	0.6
214	0010 1010	3303.75	3341.9	-0.4	-0.5	10.8	3346.4	-4.4
215	0010 1001	3319.38	3362.0	-0.4	-0.4	24.0	3362.2	3.8
216	0010 1000	3335.00	3373.0	0.4	0.4	7.1	3378.0	-5.0
217	0010 0111	3350.63	3391.5	0.2	0.2	18.5	3393.8	-2.3
218	0010 0110	3366.25	3407.8	-0.6	0.0	14.2	3409.6	-4.8
219	0010 0101	3381.88	3429.3	-0.6	-0.5	23.5	3425.4	3.8
220	0010 0100	3397.50	3448.2	0.0	-0.3	19.0	3441.3	7.0
221	0010 0011	3413.13	3469.3	0.4	0.5	11.1	3457.1	2.2
222	0010 0010	3428.75	3473.3	0.4	0.3	14.0	3472.9	0.4
223	0010 0001	3444.38	3494.3	-0.6	-0.5	21.0	3488.7	5.6
224	0010 0000	3460.00	3503.7	-0.4	-0.4	9.4	3504.3	-0.8
225	0001 1111	3475.63	3518.1	0.4	-0.0	14.4	3520.3	-2.2
226	0001 1110	3491.25	3528.0	0.4	0.5	9.8	3536.1	-8.1
227	0001 1101	3506.88	3555.8	-0.1	0.4	27.8	3551.9	3.9
228	0001 1100	3522.50	3568.7	-0.5	-0.4	12.9	3567.7	0.9
229	0001 1011	3538.13	3586.8	-0.1	-0.4	17.7	3583.5	2.8
230	0001 1010	3553.75	3594.6	0.4	0.6	8.3	3599.4	-4.7
231	0001 1001	3569.38	3620.6	0.3	2.9	26.0	3615.2	5.4
232	0001 1000	3585.00	3627.2	-0.6	-0.1	6.6	3631.0	-3.8
233	0001 0111	3600.63	3647.0	-0.5	-0.4	19.8	3646.8	0.2
234	0001 0110	3616.25	3659.8	-0.1	-0.6	12.8	3662.6	-2.8
235	0001 0101	3631.88	3684.1	0.4	0.5	24.3	3678.4	5.7
236	0001 0100	3647.50	3699.8	-0.1	0.4	15.7	3694.2	5.6

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27 27 30 81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO- 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
237	0001 0011	3663.13	3715.2	-0.7	-0.6	15.4	3710.0	5.2
238	0001 0010	3678.75	3727.5	-1.1	-0.6	12.3	3725.8	1.6
239	0001 0001	3694.38	3749.1	0.5	0.1	21.7	3741.7	7.5
240	0001 0000	3710.00	3765.9	0.4	0.5	16.8	3757.5	8.5
241	0000 1111	3725.63	3774.3	-0.1	0.5	8.4	3773.3	1.0
242	0000 1110	3741.25	3785.1	-0.5	-0.4	10.8	3789.1	-4.0
243	0000 1101	3756.88	3812.6	-0.2	-0.5	27.5	3804.9	7.7
244	0000 1100	3772.50	3826.4	0.4	0.6	13.8	3820.7	5.7
245	0000 1011	3788.13	3842.2	0.4	0.4	15.8	3836.5	5.7
246	0000 1010	3803.75	3852.9	-0.6	-0.0	10.7	3852.3	0.6
247	0000 1001	3819.38	3879.8	-0.5	-0.3	26.8	3868.1	11.6
248	0000 1000	3835.00	3888.9	-0.0	-0.5	9.2	3884.0	5.0
249	0000 0111	3850.63	3903.1	0.4	0.6	14.2	3899.8	3.4
250	0000 0110	3866.25	3916.4	-0.2	0.6	13.2	3915.6	0.8
251	0000 0101	3881.88	3941.3	-0.9	-0.5	24.9	3931.4	9.9
252	0000 0100	3897.50	3960.4	-0.3	-0.2	19.1	3947.2	13.2
253	0000 0011	3913.13	3971.6	0.5	0.0	11.2	3963.0	8.6
254	0000 0010	3928.75	3985.4	0.3	0.4	13.8	3978.8	6.6
255	0000 0001	3944.38	4006.3	-0.2	0.7	20.9	3994.6	11.7

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27

HS-2[illegible] THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 184
1981/11/30 11:13:38 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
[illegible] THRESHOLD TEST (BAND= 1, SENSOR=11) RX 30 [illegible]
S U M M A R Y

(CHECK 1) RMS ERROR, 2) THRESHOLD INCREMENT(+/- 0.0 [illegible] INC = 31.2)
THE REMAINING DATA ARE FOR INFORMATION ONLY

[illegible] STRAIGHT LINE TS: Y = 15.807X -35.3MV

DEVIATION OF SLOPE FROM IDEAL TS: 1.165%
OFFSET TS:-35.3MV
COEFFICIENT OF DETERMINATION TS: R**2= .99998240
ANALOG INPUT DURING DC RESTORE TS:64.4MV

[illegible] ERROR = [illegible] RFNMT: RMS ERROR <=7.812MV

THRESHOLD INCREMENT MEASUREMENT

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
[illegible].0MV	231	15.881MV	1.9MV	200	5.703MV

[illegible] AT [illegible] LEVELS RATIO = 1 : 1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
1.2MV	75	-0.0[illegible]MV	-1.7MV	217	.465MV

[illegible] AT [illegible] LEVELS RATIO = 1 : 1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
1.2MV	75	0.003MV	-1.8MV	217	.455MV

TEST [illegible]

ORIGINAL PAGE IS OF POOR QUALITY

HS 236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 185
1981/11/30 11:13:51 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
[illegible] A/D THRESHOLD TEST (BAND-1 SENSOR-11)

HAC TEST S27

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO- 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
THE FOLLOWING DATA ARE FOR INFORMATION ONLY								
1	1111 1111	-24.375	-25.0	-0.3	-0.2		-19.5	-5.5
2	1111 1110	-8.750	-12.9	0.2	0.2	12.1	-3.7	-9.2
3	1111 1101	6.875	11.7	0.4	-0.3	24.6	12.1	-0.4
4	1111 1100	22.500	25.1	-0.8	0.0	13.4	27.9	-2.8
5	1111 1011	38.125	42.0	-0.2	-0.2	16.9	43.7	-1.7
6	1111 1010	53.750	54.1	0.0	-0.1	12.1	59.6	-5.4
7	1111 1001	69.375	77.6	0.0	0.1	23.5	75.4	2.3
8	1111 1000	85.000	83.5	0.0	0.1	5.8	91.2	-7.7
9	1111 0111	100.625	102.9	-0.2	-0.2	19.4	107.0	-4.1
10	1111 0110	116.250	117.9	-0.3	-0.3	15.0	122.8	-4.9
11	1111 0101	131.875	138.5	0.2	-0.0	20.6	138.6	-0.1
12	1111 0100	147.500	155.8	0.6	0.7	17.3	154.4	1.4
13	1111 0011	163.125	169.7	0.0	0.2	13.9	170.2	-0.5
14	1111 0010	178.750	185.4	-0.4	-0.3	15.7	186.0	-0.7
15	1111 0001	194.375	205.7	-0.1	-0.1	20.3	201.8	3.9
16	1111 0000	210.000	215.9	-0.6	-0.5	10.2	217.6	-1.7
17	1110 1111	225.625	229.9	0.2	0.2	13.9	233.4	-3.6
18	1110 1110	241.250	242.9	-0.3	0.0	13.1	249.2	-6.3
19	1110 1101	256.875	266.0	0.6	0.8	23.1	265.0	1.0
20	1110 1100	272.500	283.8	-0.1	-0.7	17.7	280.9	2.9
21	1110 1011	288.125	296.9	0.1	0.2	13.1	296.7	0.2
22	1110 1010	303.750	309.8	-0.0	0.3	12.9	312.5	-2.7
23	1110 1001	319.375	332.7	-0.3	-0.3	22.9	328.3	4.4
24	1110 1000	335.000	342.2	0.3	0.2	9.5	344.1	-1.9
25	1110 0111	350.625	357.6	0.2	0.0	15.5	359.9	-2.3

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 186
1981/11/30 11:13:51 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
[illegible]

HAC TEST S27

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
26	1110 0110	366.250	373.0	0.3	0.4	15.3	375.7	-2.7
27	1110 0101	381.875	393.2	-0.0	0.3	20.3	391.5	1.7
28	1110 0100	397.500	414.4	-0.6	0.7	21.2	407.3	7.1
29	1110 0011	413.125	424.6	0.0	-0.2	10.2	423.1	1.5
30	1110 0010	428.750	440.8	0.2	0.1	16.1	438.9	1.8
31	1110 0001	444.375	460.3	0.1	0.1	19.5	454.7	5.5
32	1110 0000	460.000	465.1	0.1	0.0	4.8	470.5	-5.4
33	1101 1111	475.625	484.4	-0.3	-0.2	19.3	486.3	-2.0
34	1101 1110	491.250	496.0	-0.0	-0.2	11.6	502.2	-6.2
35	1101 1101	506.875	521.0	0.4	0.2	25.0	518.0	3.1
36	1101 1100	522.500	534.2	-0.1	0.7	13.1	533.8	0.4
37	1101 1011	538.125	551.2	-0.2	-0.1	17.0	549.6	1.6
38	1101 1010	553.750	562.5	0.0	0.1	11.2	565.4	-2.9
39	1101 1001	569.375	586.4	0.3	0.0	23.9	581.2	5.2
40	1101 1000	585.000	594.8	0.4	0.4	8.4	597.0	-2.2
41	1101 0111	600.625	611.6	-0.0	0.2	16.8	612.8	-1.2
42	1101 0110	616.250	626.1	-0.3	0.3	14.5	628.6	-2.5
43	1101 0101	631.875	647.4	-0.0	-0.3	21.3	644.4	3.0
44	1101 0100	647.500	664.5	0.6	0.8	17.0	660.2	4.2
45	1101 0011	663.125	678.4	0.1	0.2	13.9	676.0	2.3
46	1101 0010	678.750	693.6	-0.2	0.0	14.6	691.8	1.2
47	1101 0001	694.375	713.8	-0.1	-0.0	20.8	707.6	6.2
48	1101 0000	710.000	727.4	-0.0	0.4	13.6	723.5	4.0
49	1100 1111	725.625	738.0	0.3	0.3	10.6	739.3	-1.2
50	1100 1110	741.250	750.1	-0.1	0.4	12.0	755.1	-5.0
51	1100 1101	756.875	775.2	-0.5	-0.4	25.1	770.9	4.3

ORIGINAL PAGE IS OF POOR QUALITY

1981/11/30 11:13:51 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] THRESHOLD TEST (BAND= 1, SENSOR=11)

HAC TEST 527

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO- NOMINAL	LOWER	1 :1 UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
52	1100 1100	772.500	792.2	-0.8	-0.8	17.0	786.7	5.5
53	1100 1011	788.125	804.5	0.2	0.0	12.3	802.5	2.1
54	1100 1010	803.750	816.6	0.3	0.3	12.1	818.3	-1.7
55	1100 1001	819.375	839.7	0.0	0.3	23.1	834.1	5.6
56	1100 1000	835.000	852.3	0.1	0.1	12.5	849.9	2.4
57	1100 0111	850.625	865.0	0.0	-0.2	12.7	865.7	-0.8
58	1100 0110	866.250	879.5	0.4	0.3	14.5	881.5	-2.0
59	1100 0101	881.875	900.1	0.4	0.2	20.6	897.3	2.8
60	1100 0100	897.500	921.5	-0.8	0.0	21.3	913.1	8.3
61	1100 0011	913.125	931.3	-0.2	-0.2	9.8	928.9	2.3
62	1100 0010	928.750	946.6	0.0	0.0	15.4	944.7	1.9
63	1100 0001	944.375	966.3	0.1	0.1	19.6	960.6	5.7
64	1100 0000	960.000	979.2	0.0	0.4	12.9	976.4	2.8
65	1011 1111	975.625	993.9	-0.3	-0.2	14.7	992.2	1.7
66	1011 1110	991.250	1004.7	-0.1	-0.2	10.9	1008.0	-3.2
67	1011 1101	1006.88	1030.2	0.6	0.0	25.5	1023.8	6.4
68	1011 1100	1022.50	1042.0	0.7	0.6	11.8	1039.6	2.4
69	1011 1011	1038.13	1060.4	0.0	0.0	18.4	1055.4	5.0
70	1011 1010	1053.75	1070.6	-0.0	-0.0	10.2	1071.2	-0.6
71	1011 1001	1069.38	1095.3	0.0	-0.5	24.7	1087.0	8.3
72	1011 1000	1085.00	1099.8	0.5	0.5	4.5	1102.8	-3.0
73	1011 0111	1100.63	1120.3	0.1	0.1	20.5	1118.6	1.7
74	1011 0110	1116.25	1134.0	-0.2	-0.0	13.6	1134.4	-0.5
75	1011 0101	1131.88	1155.5	1.2	1.2	21.5	1150.2	5.2
76	1011 0100	1147.50	1172.2	0.0	0.8	16.7	1166.0	6.2
77	1011 0011	1163.13	1187.0	0.2	0.1	14.7	1181.9	5.1
78	1011 0010	1178.75	1200.3	0.0	0.2	13.4	1197.7	2.7

ORIGINAL PAGE IS OF POOR QUALITY

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 1, SENSOR=11)

HAC TEST 527

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
79	1011 0001	1194.38	1221.6	0.1	0.1	21.2	1213.5	8.1
80	1011 0000	1210.00	1234.1	0.2	0.1	12.5	1229.3	4.8
81	1010 1111	1225.63	1245.9	0.2	0.0	11.8	1245.1	0.8
82	1010 1110	1241.25	1257.4	0.1	0.2	11.5	1260.9	-3.5
83	1010 1101	1256.88	1282.4	-0.1	0.8	25.0	1276.7	5.7
84	1010 1100	1272.50	1298.4	-0.5	-0.6	16.0	1292.5	5.9
85	1010 1011	1288.13	1312.6	0.0	-0.1	14.2	1308.3	4.3
86	1010 1010	1303.75	1323.6	0.1	0.1	11.0	1324.1	-0.5
87	1010 1001	1319.38	1346.7	0.7	0.7	23.1	1339.9	6.8
88	1010 1000	1335.00	1356.0	0.0	-0.1	9.3	1355.7	0.3
89	1010 0111	1350.63	1372.6	-0.2	-0.2	16.5	1371.5	1.0
90	1010 0110	1366.25	1386.6	-0.0	-0.2	14.0	1387.3	-0.8
91	1010 0101	1381.88	1408.8	-1.3	-1.2	22.2	1403.2	5.6
92	1010 0100	1397.50	1426.9	-0.1	0.5	18.1	1419.0	8.0
93	1010 0011	1413.13	1439.1	-0.1	-0.1	12.1	1434.8	4.3
94	1010 0010	1428.75	1453.7	-0.1	-0.3	14.6	1450.6	3.1
95	1010 0001	1444.38	1473.5	0.0	-0.0	19.8	1466.4	7.2
96	1010 0000	1460.00	1482.2	0.0	-0.3	8.7	1482.2	0.0
97	1001 1111	1475.63	1497.4	0.0	0.3	15.1	1498.0	-0.6
98	1001 1110	1491.25	1507.9	-0.2	-0.3	10.5	1513.8	-5.9
99	1001 1101	1506.88	1534.5	0.0	-0.6	26.6	1529.6	4.9
100	1001 1100	1522.50	1546.0	0.7	0.9	11.5	1545.4	0.6
101	1001 1011	1538.13	1564.0	0.0	0.1	18.0	1561.2	2.8
102	1001 1010	1553.75	1573.7	-0.1	-0.1	9.7	1577.0	-3.3
103	1001 1001	1569.38	1599.0	-0.4	-0.4	25.2	1592.8	6.1
104	1001 1000	1585.00	1606.8	0.0	-0.7	7.8	1608.6	-1.9

ORIGINAL PAGE IS OF POOR QUALITY

C-3

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 189
1981/11/30 11:13:51 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.3.5-8 A/D THRESHOLD TEST (BAND= 1, SENSOR=11)

HAC TEST S27

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
105	1001 0111	1600.63	1623.8	0.2	0.2	17.0	1624.4	-0.7
106	1001 0110	1616.25	1636.8	-0.1	0.2	13.0	1640.3	-3.5
107	1001 0101	1631.88	1660.8	-0.6	-0.6	24.0	1656.1	4.8
108	1001 0100	1647.50	1675.9	-0.8	-0.7	15.1	1671.9	4.1
109	1001 0011	1663.13	1690.5	0.0	-0.1	14.6	1687.7	2.8
110	1001 0010	1678.75	1703.2	0.2	0.4	12.7	1703.5	-0.2
111	1001 0001	1694.38	1724.9	0.0	0.2	21.7	1719.3	5.6
112	1001 0000	1710.00	1741.2	0.3	0.2	16.3	1735.1	6.1
113	1000 1111	1725.63	1749.8	0.0	-0.4	8.6	1750.9	-1.1
114	1000 1110	1741.25	1760.2	0.1	0.1	10.5	1766.7	-6.5
115	1000 1101	1756.88	1785.8	0.6	0.6	25.6	1782.5	3.3
116	1000 1100	1772.50	1802.4	-0.8	0.1	16.6	1798.3	4.1
117	1000 1011	1788.13	1816.0	-0.2	-0.2	13.6	1814.1	1.9
118	1000 1010	1803.75	1826.5	0.0	-0.1	10.5	1829.9	-3.4
119	1000 1001	1819.38	1850.5	0.4	0.5	23.9	1845.7	4.7
120	1000 1000	1835.00	1862.7	0.0	0.1	12.2	1861.6	1.1
121	1000 0111	1850.63	1875.9	-0.3	-0.2	13.1	1877.4	-1.5
122	1000 0110	1866.25	1889.3	-0.1	-0.1	13.4	1893.2	-3.9
123	1000 0101	1881.88	1912.0	0.6	-0.1	22.7	1909.0	3.0
124	1000 0100	1897.50	1930.4	0.8	0.7	18.4	1924.8	5.6
125	1000 0011	1913.13	1942.2	0.0	0.1	11.7	1940.6	1.6
126	1000 0010	1928.75	1956.6	-0.4	-0.2	14.4	1956.4	0.2
127	1000 0001	1944.38	1976.9	-0.1	-0.3	20.3	1972.2	4.7
128	1000 0000	1960.00	1986.7	0.5	0.4	9.7	1988.0	-1.3
129	0111 1111	1975.63	1998.9	-0.0	-0.0	12.2	2003.8	-4.9
130	0111 1110	1991.25	2010.2	-0.2	-0.1	11.3	2019.6	-9.5

ORIGINAL PAGE IS OF POOR QUALITY

1981/1/30 11:13:51 FIDELITY FIGT PERFORMANCE @ AMBIENT TEMP.

[illegible] 8-BIT A/D THRESHOLD TEST (BAND= 1 , SENSOR=11)

HAC TEST 127

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO- 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
131	0111 1101	2006.88	2036.1	-0.6	-0.5	25.9	2035.4	0.6
132	0111 1100	2022.50	2048.3	0.9	0.2	12.3	2051.2	-2.9
133	0111 1011	2038.13	2066.0	0.1	0.1	17.6	2067.0	-1.1
134	0111 1010	2053.75	2076.3	0.0	0.3	10.3	2082.9	-6.6
135	0111 1001	2069.38	2102.3	-0.5	-0.6	26.1	2098.7	3.7
136	0111 1000	2085.00	2104.8	-0.7	-0.7	2.5	2114.5	-9.7
137	0111 0111	2100.63	2125.9	-0.0	-0.0	21.1	2130.3	-4.3
138	0111 0110	2116.25	2139.5	0.0	0.0	13.5	2146.1	-6.6
139	0111 0101	2131.88	2162.6	-0.9	-0.1	23.1	2161.9	0.7
140	0111 0100	2147.50	2178.7	-1.1	-1.1	16.1	2177.7	1.0
141	0111 0011	2163.13	2192.8	-0.0	-0.3	14.0	2193.5	-0.7
142	0111 0010	2178.75	2206.5	0.2	0.1	13.8	2209.3	-2.8
143	0111 0001	2194.38	2228.0	0.4	-0.7	21.5	2225.1	2.9
144	0111 0000	2210.00	2236.8	-0.0	-0.0	8.7	2240.9	-4.2
145	0110 1111	2225.63	2251.3	-0.1	-0.2	14.5	2256.7	-5.4
146	0110 1110	2241.25	2262.9	0.1	-0.0	11.6	2272.5	-9.6
147	0110 1101	2256.88	2287.8	0.6	0.6	24.8	2288.3	-0.6
148	0110 1100	2272.50	2304.5	-0.0	0.9	16.7	2304.1	0.3
149	0110 1011	2288.13	2318.3	-0.1	-0.0	13.8	2320.0	-1.7
150	0110 1010	2303.75	2329.9	-0.3	-0.3	11.6	2335.8	-5.9
151	0110 1001	2319.38	2354.0	0.6	-0.0	24.1	2351.6	2.5
152	0110 1000	2335.00	2360.5	0.4	0.4	6.4	2367.4	-6.9
153	0110 0111	2350.63	2378.0	0.0	0.0	17.6	2383.2	-5.1
154	0110 0110	2366.25	2392.4	-0.3	-0.3	14.4	2399.0	-6.6
155	0110 0101	2381.88	2414.7	0.0	-0.8	22.3	2414.8	-0.1
156	0110 0100	2397.50	2433.5	0.8	0.9	18.7	2430.6	2.9
157	0110 0011	2413.13	2444.6	0.3	0.3	11.1	2446.4	-1.8

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 191
1981/11/30 11:13:51 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.3.5-8 A/D THRESHOLD TEST (BAND= 1, SENSOR=11)

HAC TEST 327

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
158	0110 0010	2428.75	2460.0	-0.2	0.0	15.4	2462.2	-2.2
159	0110 0001	2444.38	2480.6	-0.5	-0.4	20.6	2478.0	2.6
160	0110 0000	2460.00	2484.4	0.5	0.4	3.7	2493.8	-9.4
161	0101 1111	2475.63	2502.6	0.4	0.4	18.2	2509.6	-7.0
162	0101 1110	2491.25	2513.4	-0.1	0.1	10.7	2525.4	-12.1
163	0101 1101	2506.88	2540.2	-0.7	-0.7	26.8	2541.3	-1.1
164	0101 1100	2522.50	2553.9	-1.1	-1.1	13.7	2557.1	-3.2
165	0101 1011	2538.13	2570.0	0.0	0.0	16.1	2572.9	-2.8
166	0101 1010	2553.75	2579.5	0.3	0.4	9.5	2588.7	-9.2
167	0101 1001	2569.38	2606.6	-0.7	0.0	27.1	2604.5	2.1
168	0101 1000	2585.00	2611.7	-0.9	-0.9	5.1	2620.3	-8.5
169	0101 0111	2600.63	2629.4	0.0	0.4	17.6	2636.1	-6.7
170	0101 0110	2616.25	2642.8	0.1	0.1	13.4	2651.9	-9.1
171	0101 0101	2631.88	2665.8	0.8	0.8	23.0	2667.7	-1.9
172	0101 0100	2647.50	2683.1	-1.1	0.0	17.2	2683.5	-0.5
173	0101 0011	2663.13	2696.9	-0.3	-0.3	13.9	2699.3	-2.4
174	0101 0010	2678.75	2709.9	0.2	0.1	13.0	2715.1	-5.2
175	0101 0001	2694.38	2732.2	0.6	0.7	22.3	2730.9	1.3
176	0101 0000	2710.00	2744.5	-0.0	0.1	12.3	2746.7	-2.2
177	0100 1111	2725.63	2755.4	-0.3	-0.3	10.9	2762.6	-7.1
178	0100 1110	2741.25	2766.3	-0.1	-0.0	10.9	2778.4	-12.0
179	0100 1101	2756.88	2791.8	0.6	-0.0	25.5	2794.2	-2.3
180	0100 1100	2772.50	2809.0	0.9	0.9	17.2	2810.0	-0.9
181	0100 1011	2788.13	2822.3	0.6	0.6	13.3	2825.8	-3.5
182	0100 1010	2803.75	2833.5	-0.4	-0.3	11.2	2841.6	-8.0
183	0100 1001	2819.38	2858.9	0.0	-0.7	25.3	2857.4	1.5

ORIGINAL PAGE IS OF POOR QUALITY

[illegible] A/D THRESHOLD TEST (BAND= 1 , SENSOR=11)

HAC 27 NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO- 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
184	0100 1000	2835.00	2867.5	0.2	0.0	8.6	2873.2	-5.7
185	0100 0111	2850.63	2882.1	0.0	0.1	14.6	2889.0	-6.9
186	0100 0110	2866.25	2895.6	-0.0	0.0	13.5	2904.8	-9.2
187	0100 0101	2881.88	2918.9	-0.9	-0.8	23.3	2920.6	-1.7
188	0100 0100	2897.50	2938.0	1.0	-0.0	19.1	2936.4	1.5
189	0100 0011	2913.13	2949.2	0.1	0.1	11.2	2952.2	-3.1
190	0100 0010	2928.75	2963.8	-0.0	0.3	14.6	2968.0	-4.2
191	0100 0001	2944.38	2985.4	-1.1	-1.1	21.6	2983.9	1.5
192	0100 0000	2960.00	2999.4	-0.7	-0.6	14.0	2999.7	-0.3
193	0011 1111	2975.63	3010.5	0.2	0.0	11.1	3015.5	-5.0
194	0011 1110	2991.25	3020.6	0.1	0.1	10.1	3031.3	-10.7
195	0011 1101	3006.88	3048.3	-0.8	-0.0	27.7	3047.1	1.2
196	0011 1100	3022.50	3060.1	-0.7	-0.8	11.8	3062.9	-2.8
197	0011 1011	3038.13	3078.1	-0.1	0.0	18.1	3078.7	-0.5
198	0011 1010	3053.75	3087.1	0.3	0.2	8.9	3094.5	-7.4
199	0011 1001	3069.38	3114.3	0.7	0.7	27.2	3110.3	4.0
200	0011 1000	3085.00	3116.2	-0.9	-0.1	1.9	3126.1	-9.9
201	0011 0111	3100.63	3138.3	-0.1	-0.1	22.1	3141.9	-3.6
202	0011 0110	3116.25	3150.7	0.1	-0.0	12.4	3157.7	-7.0
203	0011 0101	3131.88	3174.7	0.6	0.8	24.0	3173.5	1.2
204	0011 0100	3147.50	3189.7	-0.0	0.9	15.0	3189.3	0.4
205	0011 0011	3163.13	3205.9	-0.2	-0.1	16.2	3205.1	0.8
206	0011 0010	3178.75	3218.3	0.0	-0.1	12.3	3221.0	-2.7
207	0011 0001	3194.38	3241.5	0.6	-0.0	23.2	3236.8	4.7
208	0011 0000	3210.00	3252.7	0.7	0.7	11.2	3252.6	0.2
209	0010 1111	3225.63	3264.8	-0.4	0.0	12.0	3268.4	-3.6

ORIGINAL PAGE IS OF POOR QUALITY

3.7.4.5-8 A/D THRESHOLD TEST (BAND= 1, SENSOR=11)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	TOTAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRATGHT LINE POINT,	DEVIATION
210	0010 1110	3241.25	3274.7	0.0	0.0	9.9	3284.2	-9.5
211	0010 1101	3256.88	3302.4	-0.1	-0.8	27.7	3300.0	2.4
212	0010 1100	3272.50	3317.3	0.9	1.1	14.9	3315.8	1.5
213	0010 1011	3288.13	3332.3	-0.0	0.1	15.0	3331.6	0.7
214	0010 1010	3303.75	3342.9	-0.4	0.0	10.6	3347.4	-4.5
215	0010 1001	3319.38	3369.3	-0.7	-0.7	26.4	3363.2	6.1
216	0010 1000	3335.00	3374.1	0.3	-0.1	4.8	3379.0	-4.9
217	0010 0111	3350.63	3394.4	-1.7	-1.8	20.3	3394.8	-0.4
218	0010 0110	3366.25	3405.8	-0.1	0.1	11.3	3410.6	-4.9
219	0010 0101	3381.88	3429.9	-0.8	-0.8	24.2	3426.4	3.5
220	0010 0100	3397.50	3448.7	-1.0	-0.9	18.8	3442.3	6.5
221	0010 0011	3413.13	3460.3	-0.1	0.0	11.5	3458.1	2.2
222	0010 0010	3428.75	3474.3	0.4	0.5	14.0	3473.9	0.4
223	0010 0001	3444.38	3496.8	-0.6	0.0	22.5	3489.7	7.1
224	0010 0000	3460.00	3504.6	-0.3	-0.2	7.8	3505.5	-0.9
225	0001 1111	3475.63	3519.3	-0.1	-0.5	14.8	3521.3	-2.0
226	0001 1110	3491.25	3528.4	0.1	0.1	9.1	3537.1	-8.7
227	0001 1101	3506.88	3556.1	0.7	0.7	27.7	3552.9	3.2
228	0001 1100	3522.50	3569.6	-1.0	-1.0	13.5	3568.7	0.9
229	0001 1011	3538.13	3587.1	-0.2	-0.2	17.4	3584.5	2.6
230	0001 1010	3553.75	3595.5	0.5	0.0	8.4	3600.3	-4.8
231	0001 1001	3569.38	3623.5	0.7	0.8	28.0	3616.1	7.4
232	0001 1000	3585.00	3627.6	0.0	1.0	4.1	3631.9	-4.3
233	0001 0111	3600.63	3647.7	-0.3	-0.2	20.1	3647.7	-0.1
234	0001 0110	3616.25	3659.8	-0.2	-0.2	12.1	3663.6	-3.7
235	0001 0101	3631.88	3684.3	0.7	0.9	24.5	3679.4	4.9
236	0001 0100	3647.50	3699.9	0.7	0.8	15.5	3695.2	4.7

ORIGINAL PAGE IS OF POOR QUALITY

3.1.1.3.5-4 A/D THRESHOLD TEST (BAND= 1 , SENSOR=11)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
237	0001 0011	3663.13	3715.9	-0.1	0.0	16.0	3711.0	4.9
238	0001 0010	3678.75	3728.5	-0.5	-0.4	12.6	3726.8	1.7
239	0001 0001	3694.38	3752.6	-0.2	-0.8	24.2	3742.6	10.1
240	0001 0000	3710.00	3766.6	0.2	0.2	13.9	3758.4	8.2
241	0000 1111	3725.63	3774.8	0.7	0.7	8.2	3774.2	0.6
242	0000 1110	3741.25	3785.2	-0.1	-0.1	10.4	3790.0	-4.8
243	0000 1101	3756.88	3813.1	-0.9	-0.8	27.9	3805.8	7.3
244	0000 1100	3772.50	3828.8	1.0	0.1	15.7	3821.6	7.2
245	0000 1011	3788.13	3843.2	0.0	0.1	14.4	3837.4	5.8
246	0000 1010	3803.75	3853.4	-0.1	0.3	10.1	3853.2	0.1
247	0000 1001	3819.38	3880.8	-1.1	-1.1	27.4	3869.0	11.7
248	0000 1000	3835.00	3889.8	-0.3	-0.2	9.0	3884.8	4.9
249	0000 0111	3850.63	3903.8	-0.0	0.0	14.0	3900.7	3.1
250	0000 0110	3866.25	3917.0	0.1	0.2	13.2	3916.5	0.5
251	0000 0101	3881.88	3941.9	-1.0	0.0	24.9	3932.3	9.6
252	0000 0100	3897.50	3960.3	-0.4	-0.3	18.4	3948.1	12.2
253	0000 0011	3913.13	3972.5	0.0	0.2	12.2	3963.9	8.6
254	0000 0010	3928.75	3986.2	0.5	0.5	13.7	3979.7	6.6
255	0000 0001	3944.38	4008.7	0.4	0.2	22.5	3995.5	13.2

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 195
1981/11/30 11:20:14 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.3.5-8 A/D THRESHOLD TEST (BAND= 1, SENSOR=12)
S U M M A R Y

HAC TEST S27

CHECK 1) RMS ERROR, 2) THRESHOLD INCREMENT(+/- 0.0 <= THRH INC <= 31.2)
THE REMAINING DATA ARE FOR INFORMATION ONLY

BEST FIT STRAIGHT LINE IS: Y =15.806X -37.0MV

DEVIATION OF SLOPE FROM IDEAL IS: 1.158%
OFFSET IS:-37.0MV
COEFFICIENT OF DETERMINATION IS: R**2= .99998290
ANALOG INPUT DURING DC RESTORE IS:64.5MV

RMS ERROR = 4.745MV REQMT: RMS ERROR <=7.812MV

THRESHOLD INCREMENT MEASUREMENT

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
28.1MV	243	15.880MV	3.5MV	200	5.444MV

LOWER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
3.0MV	199	-0.069MV	-3.3MV	215	.803MV

UPPER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
3.0MV	199	-0.054MV	-3.2MV	215	.831MV

TEST PASSED

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27

[illegible] A/D THRESHOLD TEST (BAND= 1, SENSOR=12)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO- 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
THE FOLLOWING DATA ARE FOR INFORMATION ONLY								
1	1111 1111	-24.375	-27.2	-0.9	-0.6		-21.2	-5.9
2	1111 1110	-8.250	-14.7	0.4	-0.0	12.4	-5.4	9.3
3	1111 1101	6.875	7.7	0.8	0.8	22.4	10.4	-2.7
4	1111 1100	22.500	21.6	-0.0	0.3	13.9	26.2	-4.6
5	1111 1011	38.125	40.1	-0.8	-0.8	18.5	42.0	-1.9
6	1111 1010	53.750	52.3	-0.5	-0.4	12.2	57.8	-5.5
7	1111 1001	69.375	74.9	0.6	-0.0	22.6	73.6	1.3
8	1111 1000	85.000	81.0	0.3	0.3	6.1	89.4	-8.4
9	1111 0111	100.625	100.9	-0.7	-0.0	19.9	105.2	-4.3
10	1111 0110	116.250	116.1	-0.4	-0.5	15.1	121.0	-4.9
11	1111 0101	131.875	136.5	-0.1	-0.8	20.4	136.8	-0.3
12	1111 0100	147.500	153.9	0.3	0.3	17.4	152.6	1.2
13	1111 0011	163.125	167.0	0.9	0.9	13.2	168.4	-1.4
14	1111 0010	178.750	183.4	-0.4	-0.0	16.4	184.3	-0.8
15	1111 0001	194.375	203.7	1.0	-0.9	20.3	200.1	3.6
16	1111 0000	210.000	213.5	0.3	0.0	9.8	215.9	-2.4
17	1110 1111	225.625	227.5	0.6	0.6	14.0	231.7	-4.1
18	1110 1110	241.250	241.1	-0.1	0.5	13.6	247.5	-6.3
19	1110 1101	256.875	263.8	-0.8	-0.8	22.7	263.3	0.6
20	1110 1100	272.500	280.4	-0.4	-0.3	16.6	279.1	1.3
21	1110 1011	288.125	294.6	0.7	-0.0	14.2	294.9	-0.3
22	1110 1010	303.750	307.9	0.3	0.3	13.3	310.7	-2.8
23	1110 1001	319.375	330.9	-0.8	0.0	22.9	326.5	4.4
24	1110 1000	335.000	340.6	-0.3	-0.4	9.7	342.3	-1.7
25	1110 0111	350.625	356.1	-0.1	-0.7	15.6	358.1	-2.0

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 197
1981/11/30 11:20:28 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
[illegible] A/D THRESHOLD TEST (BAND= 1, SENSOR=12)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
26	1110 0110	366.250	371.0	0.2	0.4	14.9	373.9	-2.9
27	1110 0101	381.875	390.9	0.6	0.7	19.8	389.7	1.1
28	1110 0100	397.500	411.5	-0.4	-0.1	20.6	405.5	6.0
29	1110 0011	413.125	423.0	-1.0	-0.9	11.5	421.3	1.6
30	1110 0010	428.750	439.0	0.4	-0.0	16.0	437.1	1.8
31	1110 0001	444.375	457.8	0.8	0.8	18.9	453.0	4.9
32	1110 0000	460.000	463.3	-0.0	0.3	5.4	468.8	-5.5
33	1101 1111	475.625	482.7	-0.7	-0.7	19.4	484.6	-1.9
34	1101 1110	491.250	494.9	-0.5	-0.5	12.2	500.4	-5.4
35	1101 1101	506.875	517.7	0.6	-0.0	22.7	516.2	1.5
36	1101 1100	522.500	531.6	0.3	0.4	13.9	532.0	-0.4
37	1101 1011	538.125	549.8	-0.7	0.0	18.2	547.8	2.0
38	1101 1010	553.750	560.9	-0.4	-0.4	11.1	563.6	-2.7
39	1101 1001	569.375	585.0	-0.0	-0.7	24.0	579.4	5.6
40	1101 1000	585.000	593.1	0.3	0.3	8.2	595.2	-2.1
41	1101 0111	600.625	609.7	0.6	0.6	16.5	611.0	-1.4
42	1101 0110	616.250	625.3	-0.6	-0.5	15.6	626.8	-1.5
43	1101 0101	631.875	645.7	-0.7	-0.6	20.4	642.4	3.1
44	1101 0100	647.500	663.3	0.3	0.0	17.6	658.4	4.9
45	1101 0011	663.125	676.3	0.7	0.7	13.0	674.2	2.1
46	1101 0010	678.750	691.3	-0.1	0.3	15.0	690.0	1.3
47	1101 0001	694.375	712.5	-0.8	-0.8	21.2	705.8	6.7
48	1101 0000	710.000	726.3	-0.4	-0.5	13.8	721.7	4.7
49	1100 1111	725.625	736.1	0.6	0.6	9.8	737.5	-1.3
50	1100 1110	741.250	749.1	0.4	0.4	13.0	753.3	-4.1
51	1100 1101	756.875	772.2	-0.6	-0.1	23.1	769.1	3.2

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 198
1981/11/30 11:20:28 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
[illegible] A/D THRESHOLD TEST (BAND= 1, SENSOR=12)

HAC TEST 527

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
52	1100 1100	772.500	788.9	-0.5	-0.4	16.7	784.9	4.0
53	1100 1011	788.125	803.5	-0.0	-0.7	14.5	800.7	2.8
54	1100 1010	803.750	815.2	0.3	0.4	11.8	816.5	-1.3
55	1100 1001	819.375	837.8	0.7	0.7	22.6	832.3	5.5
56	1100 1000	835.000	850.7	-0.3	-0.4	12.9	848.1	2.6
57	1100 0111	850.625	863.7	-0.8	-0.7	12.9	863.9	-0.2
58	1100 0110	866.250	878.6	0.4	-0.1	14.9	879.7	-1.2
59	1100 0101	881.875	898.2	0.5	0.5	19.7	895.5	2.7
60	1100 0100	897.500	918.4	-0.0	0.4	20.2	911.3	7.1
61	1100 0011	913.125	930.0	-0.8	-0.8	11.6	927.1	2.9
62	1100 0010	928.750	945.6	-0.5	-0.5	15.6	942.9	2.7
63	1100 0001	944.375	964.6	0.7	0.7	19.0	958.7	5.8
64	1100 0000	960.000	977.5	0.3	0.3	12.9	974.5	2.9
65	1011 1111	975.625	992.7	-0.7	0.0	15.2	990.4	2.3
66	1011 1110	991.250	1004.0	-0.4	-0.4	11.3	1006.2	-2.2
67	1011 1101	1006.88	1027.7	0.0	-0.5	23.7	1022.0	5.7
68	1011 1100	1022.50	1040.0	0.3	0.3	12.3	1037.8	2.2
69	1011 1011	1038.13	1058.9	0.6	0.6	18.9	1053.6	5.4
70	1011 1010	1053.75	1069.5	-0.4	-0.5	10.5	1069.4	0.1
71	1011 1001	1069.38	1093.9	-0.6	-0.6	24.4	1085.2	8.7
72	1011 1000	1085.00	1098.5	0.4	-0.0	4.6	1101.0	-2.5
73	1011 0111	1100.63	1118.9	0.6	0.6	20.4	1116.8	2.1
74	1011 0110	1116.25	1133.0	-0.0	0.5	14.1	1132.6	0.4
75	1011 0101	1131.88	1154.2	-0.6	-0.9	21.2	1148.4	5.7
76	1011 0100	1147.50	1171.2	-0.4	-0.5	17.1	1164.2	7.0
77	1011 0011	1163.13	1185.4	0.7	0.7	14.2	1180.0	5.4
78	1011 0010	1178.75	1198.9	0.4	0.3	13.5	1195.8	3.1

ORIGINAL PAGE IS OF POOR QUALITY

HS 236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 199

1981/11/30 11:20:28 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] A/D THRESHOLD TEST (BAND= 1, SENSOR=12)

HAC TEST S27

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
79	1011 0001	1194.38	1220.8	-0.8	0.0	21.9	1211.6	9.2
80	1011 0000	1210.00	1233.0	-0.3	-0.3	12.1	1227.4	5.5
81	1010 1111	1225.63	1245.0	-0.0	-0.7	12.0	1243.2	1.7
82	1010 1110	1241.25	1256.5	0.4	0.4	11.5	1259.1	-2.6
83	1010 1101	1256.88	1279.3	0.5	0.6	22.8	1274.9	4.5
84	1010 1100	1272.50	1295.7	-0.4	-0.3	16.3	1290.7	5.0
85	1010 1011	1288.13	1311.6	-0.6	-0.6	15.9	1306.5	5.1
86	1010 1010	1303.75	1322.0	0.5	-0.0	10.4	1322.3	-0.3
87	1010 1001	1319.38	1345.4	0.6	0.5	23.4	1338.1	7.3
88	1010 1000	1335.00	1354.3	0.0	0.4	8.9	1353.9	0.4
89	1010 0111	1350.63	1371.4	-0.5	-0.5	17.1	1369.7	1.7
90	1010 0110	1366.25	1386.0	-0.6	-0.5	14.6	1385.5	0.5
91	1010 0101	1381.88	1405.4	0.7	0.6	19.4	1401.3	4.1
92	1010 0100	1397.50	1426.1	0.4	0.4	20.7	1417.1	9.0
93	1010 0011	1413.13	1438.0	-0.8	0.0	11.9	1432.9	5.1
94	1010 0010	1428.75	1452.1	-0.6	-0.6	14.1	1448.7	3.3
95	1010 0001	1444.38	1472.6	0.0	-0.8	26.6	1464.5	8.1
96	1010 0000	1460.00	1481.1	0.3	0.2	8.5	1480.3	0.8
97	1001 1111	1475.63	1495.6	0.5	0.6	14.5	1496.1	-0.5
98	1001 1110	1491.25	1507.1	-0.5	-0.5	11.5	1512.0	-4.8
99	1001 1101	1506.88	1533.2	-2.2	-2.3	26.0	1527.8	5.4
100	1001 1100	1522.50	1543.6	0.4	-0.0	10.4	1543.6	0.0
101	1001 1011	1538.13	1562.4	0.6	0.6	18.8	1559.4	3.1
102	1001 1010	1553.75	1571.8	0.1	0.5	9.3	1575.2	-3.4
103	1001 1001	1569.38	1597.5	-0.8	-0.7	25.7	1591.0	6.5
104	1001 1000	1585.00	1604.9	-0.3	-0.2	7.4	1606.8	-1.9

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST 527

[illegible] THRESHOLD TEST (BAND= 1 , SENSOR=12)

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO- NOMINAL	LOWER	1 :1 UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
105	1001 0111	1600.63	1627.2	0.6	0.7	17.3	1622.6	-0.4
106	1001 0110	1616.25	1635.8	0.5	0.5	13.6	1638.4	-2.6
107	1001 0101	1631.88	1657.4	-0.5	-0.0	21.6	1654.2	3.2
108	1001 0100	1647.50	1674.7	-0.3	-0.3	17.2	1670.0	4.7
109	1001 0011	1663.13	1689.5	0.0	-0.7	14.8	1685.8	3.7
110	1001 0010	1678.75	1701.7	0.1	0.2	12.2	1701.6	0.1
111	1001 0001	1694.38	1723.2	0.8	0.7	21.5	1717.4	5.7
112	1001 0000	1710.00	1740.0	-0.4	-0.4	16.8	1733.2	6.8
113	1000 1111	1725.63	1748.1	-0.6	-0.6	8.1	1749.0	-0.9
114	1000 1110	1741.25	1759.1	0.5	-0.0	11.0	1764.8	-5.7
115	1000 1101	1756.88	1782.6	2.3	2.3	23.5	1780.7	2.0
116	1000 1100	1772.50	1798.4	-0.0	0.2	15.7	1796.5	1.9
117	1000 1011	1788.13	1814.6	-0.4	-0.4	16.2	1812.3	2.3
118	1000 1010	1803.75	1825.2	-0.5	-0.5	10.6	1828.1	-2.9
119	1000 1001	1819.38	1848.6	0.6	0.4	23.4	1843.9	4.7
120	1000 1000	1835.00	1860.5	0.3	0.3	11.9	1859.7	0.8
121	1000 0111	1850.63	1874.6	-0.7	-0.0	14.1	1875.5	-0.9
122	1000 0110	1866.25	1888.6	-0.6	-0.6	14.0	1891.3	-2.7
123	1000 0101	1881.88	1909.3	-0.0	-0.6	20.7	1907.1	2.2
124	1000 0100	1897.50	1929.4	0.5	0.4	20.1	1922.9	6.5
125	1000 0011	1913.13	1940.3	0.8	0.8	10.8	1938.7	1.6
126	1000 0010	1928.75	1954.9	-0.5	-0.5	14.6	1954.5	0.3
127	1000 0001	1944.38	1975.5	-0.8	-0.7	20.6	1970.3	5.1
128	1000 0000	1960.00	1984.8	0.4	-0.1	9.3	1986.1	-1.3
129	0111 1111	1975.63	1997.2	0.6	0.6	12.4	2001.9	-4.7
130	0111 1110	1991.25	2008.8	-0.1	0.5	11.6	2017.7	-8.9

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 201

1981/11/30 11:29:28 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] A/D THRESHOLD TEST (RAND= 1 , SENSOR=12)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
131	0111 1101	2006.88	2034.5	-2.8	-2.8	25.6	2033.5	0.9
132	0111 1100	2022.50	2047.4	-0.5	-0.5	12.9	2049.4	-2.0
133	0111 1011	2038.13	2064.1	0.7	0.7	16.7	2065.2	-1.1
134	0111 1010	2053.75	2074.5	0.4	0.4	10.4	2081.0	-6.5
135	0111 1001	2069.38	2098.8	-0.7	1.0	24.3	2096.8	2.1
136	0111 1000	2085.00	2103.0	-0.4	-0.4	4.2	2112.6	-9.6
137	0111 0111	2100.63	2124.8	0.0	-0.8	21.8	2128.4	-3.6
138	0111 0110	2116.25	2138.2	0.4	0.5	13.3	2144.2	-6.0
139	0111 0101	2131.88	2158.0	2.7	2.8	19.8	2160.0	-2.0
140	0111 0100	2147.50	2177.3	-0.5	-0.5	19.3	2175.8	1.5
141	0111 0011	2163.13	2191.1	-0.8	-0.8	13.8	2191.6	-0.5
142	0111 0010	2178.75	2204.4	0.5	-0.1	13.3	2207.4	-3.0
143	0111 0001	2194.38	2225.1	1.0	0.9	20.6	2223.2	1.9
144	0111 0000	2210.00	2235.0	-0.1	0.3	9.9	2239.0	-4.0
145	0110 1111	2225.63	2250.1	-0.6	-0.7	15.0	2254.8	-4.7
146	0110 1110	2241.25	2262.2	-0.7	-0.6	12.1	2270.6	-8.5
147	0110 1101	2256.88	2286.0	0.6	0.6	23.9	2286.4	-0.4
148	0110 1100	2272.50	2301.4	0.4	0.5	15.3	2302.2	-0.9
149	0110 1011	2288.13	2317.0	-0.7	0.0	15.6	2318.1	-1.1
150	0110 1010	2303.75	2328.1	-0.4	-0.4	11.1	2333.9	-5.8
151	0110 1001	2319.38	2352.6	-0.1	-2.4	24.5	2349.7	2.9
152	0110 1000	2335.00	2358.8	0.4	0.3	6.2	2365.5	-6.7
153	0110 0111	2350.63	2376.2	0.8	0.7	17.4	2381.3	-5.1
154	0110 0110	2366.25	2391.3	-0.6	-0.7	15.2	2397.1	-5.7
155	0110 0101	2381.88	2412.9	-2.9	-2.9	21.5	2412.9	0.0
156	0110 0100	2397.50	2432.5	0.4	-0.0	19.6	2428.7	3.8
157	0110 0011	2413.13	2442.5	0.7	0.7	9.9	2444.5	-2.0

ORIGINAL PAGE IS OF POOR QUALITY

HS-2[illegible] THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 202
1981/11/30 11:20:28 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
[illegible] A/D THRESHOLD TEST (BAND= 1, SENSOR=12)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
158	0110 0010	2428.75	2457.5	0.0	0.5	15.1	2460.3	-2.8
159	0110 0001	2444.38	2478.0	-0.8	-0.9	20.4	2476.1	1.9
160	0110 0000	2460.00	2484.2	-0.2	-0.2	6.2	2491.9	-7.8
161	0101 1111	2475.63	2501.0	0.6	0.7	16.8	2507.7	-6.8
162	0101 1110	2491.25	2511.9	0.5	0.5	10.9	2523.5	-11.6
163	0101 1101	2506.88	2538.4	-0.5	-0.0	26.5	2539.3	-0.9
164	0101 1100	2522.50	2551.9	-0.5	-0.5	13.5	2555.1	-3.2
165	0101 1011	2538.13	2568.8	-0.0	-0.8	16.9	2570.9	-2.1
166	0101 1010	2553.75	2577.5	0.4	0.5	8.7	2586.8	-9.2
167	0101 1001	2569.38	2601.8	2.8	2.8	24.2	2602.6	-0.8
168	0101 1000	2585.00	2609.4	-0.3	-0.4	7.6	2618.4	-9.0
169	0101 0111	2600.63	2628.6	-0.7	-0.6	19.2	2634.2	-5.6
170	0101 0110	2616.25	2641.2	0.5	-0.0	12.7	2650.0	-8.7
171	0101 0101	2631.88	2664.1	0.6	0.6	22.8	2665.8	-1.7
172	0101 0100	2647.50	2681.0	-0.1	0.4	16.9	2681.6	-0.6
173	0101 0011	2663.13	2695.3	-1.4	-1.4	14.2	2697.4	-2.1
174	0101 0010	2678.75	2708.0	-0.6	-0.5	12.8	2713.2	-5.2
175	0101 0001	2694.38	2728.7	0.9	1.7	20.7	2729.0	-0.3
176	0101 0000	2710.00	2742.3	1.0	1.0	13.6	2744.8	-2.5
177	0100 1111	2725.63	2753.9	-0.7	-0.0	11.5	2760.6	-6.8
178	0100 1110	2741.25	2765.3	-0.6	-0.6	11.4	2776.4	-11.2
179	0100 1101	2756.88	2790.5	-0.1	-0.6	25.2	2792.2	-1.7
180	0100 1100	2772.50	2805.5	0.4	0.4	15.0	2808.0	-2.5
181	0100 1011	2788.13	2820.2	0.8	0.7	14.7	2823.8	-3.6
182	0100 1010	2803.75	2831.0	-0.2	-0.3	10.8	2839.7	-8.6
183	0100 1001	2819.38	2856.9	-2.9	-2.9	25.8	2855.5	1.4

ORIGINAL PAGE IS OF POOR QUALITY

1981/11/30 11:20:28 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

HAC TEST 527

TABLE 6-5—(1/2) THRESHOLD TEST (RAND= 1, SENSOR=12)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
184	0100 1100	2835.00	2865.2	0.4	-0.0	8.3	2871.3	-6.1
185	0100 1111	2850.63	2880.1	0.7	0.6	15.0	2887.1	-6.9
186	0100 0110	2866.25	2894.0	0.0	0.7	13.9	2902.9	-8.9
187	0100 0101	2881.88	2916.9	-0.7	-0.6	22.9	2918.7	-1.8
188	0100 0100	2897.50	2937.3	-1.5	-1.5	20.4	2934.5	2.8
189	0100 0011	2913.13	2946.7	1.0	0.9	9.4	2950.3	-3.6
190	0100 0010	2928.75	2961.2	0.6	0.4	14.5	2966.1	-4.9
191	0100 0001	2944.38	2983.7	-2.1	-0.0	21.9	2981.9	1.3
192	0100 0000	2960.00	2996.7	-0.4	-0.3	13.5	2997.7	-1.0
193	0011 1111	2975.63	3009.3	0.0	-0.8	12.6	3013.5	-4.2
194	0011 1110	2991.25	3018.8	0.6	0.7	9.5	3029.3	-10.5
195	0011 1101	3006.88	3045.8	-0.0	0.5	27.0	3045.1	0.6
196	0011 1100	3022.50	3058.0	-0.5	-0.5	12.2	3060.9	-2.9
197	0011 1011	3038.13	3076.8	-0.8	-0.8	18.8	3076.7	0.1
198	0011 1010	3053.75	3084.7	0.4	0.0	7.9	3092.5	-7.8
199	0011 1001	3069.38	3109.8	3.0	3.0	25.1	3108.4	1.5
200	0011 1000	3085.00	3113.3	0.1	-0.0	3.5	3124.2	-10.9
201	0011 0111	3100.63	3136.9	-0.7	-0.7	23.6	3140.0	-3.0
202	0011 0110	3116.25	3149.7	-0.0	-0.7	12.8	3155.8	-6.1
203	0011 0101	3131.88	3172.8	0.6	0.7	23.0	3171.6	1.2
204	0011 0100	3147.50	3188.3	0.5	0.6	15.5	3187.4	0.9
205	0011 0011	3163.13	3204.2	-1.1	-0.1	15.9	3203.2	1.0
206	0011 0010	3178.75	3216.4	-0.6	-0.6	12.2	3219.0	-2.6
207	0011 0001	3194.38	3239.8	-0.0	-2.1	23.4	3234.8	5.0
208	0011 0000	3210.00	3250.5	0.1	0.1	10.7	3250.6	-0.1
209	0010 1111	3225.63	3262.4	-0.0	0.7	11.9	3266.4	-4.0

ORIGINAL PAGE IS OF POOR QUALITY

1980/11/30 11:20:28 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] TEST OF COMMAND= 1 SENSOR=12

HAC TEST 527

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VOLTAGE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
210	0010 1110	3241.25	3274.0	-0.6	-0.7	11.6	3282.2	-8.2
211	0010 1101	3256.88	3300.4	-0.6	-0.8	26.4	3298.0	2.4
212	0010 1100	3272.50	3313.9	0.5	-0.1	13.5	3313.8	0.1
213	0010 1011	3288.13	3330.3	0.6	0.8	16.4	3329.6	0.6
214	0010 1010	3303.75	3340.2	-0.1	0.6	9.9	3345.4	-5.3
215	0010 1001	3319.38	3367.2	-3.3	-3.2	27.1	3361.2	6.0
216	0010 1000	3335.00	3372.3	0.1	-0.9	5.1	3377.1	-4.7
217	0010 0111	3350.63	3390.5	0.7	0.8	18.2	3392.9	-2.3
218	0010 0110	3366.25	3403.7	0.9	0.9	13.1	3408.7	-5.0
219	0010 0101	3381.88	3427.8	-0.7	-0.1	24.1	3424.5	3.3
220	0010 0100	3397.50	3447.1	-0.8	-0.8	19.3	3440.3	6.8
221	0010 0011	3413.13	3459.0	-0.0	-1.3	11.9	3456.1	2.9
222	0010 0010	3428.75	3471.6	0.5	0.6	12.6	3471.9	-0.3
223	0010 0001	3444.38	3492.4	-0.2	2.2	20.8	3487.7	4.7
224	0010 0000	3460.00	3503.3	-0.6	-0.6	10.8	3503.5	-0.2
225	0001 1111	3475.63	3517.4	-0.8	-0.8	14.1	3519.3	-1.9
226	0001 1110	3491.25	3526.5	0.6	-0.0	9.1	3525.1	-0.6
227	0001 1101	3506.88	3554.1	0.4	0.8	27.6	3550.9	3.2
228	0001 1100	3522.50	3566.8	-0.1	0.4	12.6	3566.7	0.1
229	0001 1011	3538.13	3585.4	-0.6	-0.6	18.6	3587.5	2.9
230	0001 1010	3553.75	3593.4	0.0	-0.3	8.0	3598.3	-4.9
231	0001 1001	3569.38	3621.2	0.3	0.6	27.8	3614.1	7.1
232	0001 1000	3585.00	3625.4	0.4	0.5	4.2	3629.9	-4.5
233	0001 0111	3600.63	3648.0	-2.7	0.0	22.5	3645.8	2.2
234	0001 0110	3616.25	3658.5	-0.8	-0.6	10.5	3661.6	-3.1
235	0001 0101	3631.88	3683.0	-0.1	-0.9	24.5	3677.4	5.6
236	0001 0100	3647.50	3698.2	0.6	0.7	15.1	3693.2	5.0

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 205
1981/11/10 11:20:28 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
[illegible] A/D THRESHOLD TEST (BAND= 1 , SENSOR=12)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
237	0001 0011	3663.13	3713.5	-0.1	0.9	15.3	3709.0	4.5
238	0001 0010	3678.75	3725.9	-0.5	-0.7	12.5	3724.8	1.1
239	0001 0001	3694.38	3750.2	-2.5	-2.3	24.3	3740.6	9.7
240	0001 0000	3710.00	3764.5	0.4	-0.1	14.3	3756.4	8.2
241	0000 1111	3725.63	3772.7	0.8	0.8	8.1	3772.2	0.5
242	0000 1110	3741.25	3782.9	0.0	1.1	10.2	3788.0	-5.1
243	0000 1101	3756.88	3811.0	-0.9	-0.7	28.1	3803.8	7.2
244	0000 1100	3772.50	3825.5	-0.1	-0.4	14.5	3819.6	5.9
245	0000 1011	3788.13	3841.0	0.6	0.9	15.5	3835.4	5.6
246	0000 1010	3803.75	3850.6	0.6	0.7	9.6	3851.[illegible]	-0.6
247	0000 1001	3819.38	3878.6	-0.8	-0.0	27.9	3867.0	11.5
248	0000 1000	3835.00	3886.9	-0.6	-0.5	8.3	3882.8	4.1
249	0000 0111	3850.63	3903.7	0.9	-1.9	16.8	3898.6	5.1
250	0000 0110	3866.25	3915.0	0.6	0.7	11.2	3914.5	0.5
251	0000 0101	3881.88	3939.0	-0.2	0.6	24.0	3930.3	8.7
252	0000 0100	3897.50	3959.1	-0.7	-0.7	20.1	3946.1	13.1
253	0000 0011	3913.13	3971.3	-1.1	-0.9	17.2	3961.9	9.4
254	0000 0010	3928.75	3983.5	0.6	-0.1	12.2	3977.7	5.9
255	0000 0001	3944.38	4006.2	0.6	0.8	22.7	3993.5	12.8

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 206
1981/11/30 11:26:51 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 1, SENSOR=13)

S U M M A R Y

CHECK 1) RMS ERROR, 2) THRESHOLD INCREMENT(+/- 0.0 <= THRH INC <= 31.2)
THE REMAINING DATA ARE FOR INFORMATION ONLY

BEST FIT STRAIGHT LINE IS: Y =15.818X -37.2MV

DEVIATION OF SLOPE FROM IDEAL IS: 1.233%
OFFSET IS:-37.2MV
COEFFICIENT OF DETERMINATION IS: R**2= .99998160
ANALOG INPUT DURING DC RESTORE IS:64.4MV

RMS ERROR = 5.062MV REQMT: RMS ERROR <=7.812MV

THRESHOLD INCREMENT MEASUREMENT

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
28.4MV	227	15.886MV	0.9MV	200	6.151MV

LOWER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
0.8MV	96	-0.063MV	-3.6MV	218	.387MV

UPPER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
3.4MV	138	0.005MV	-3.2MV	129	.442MV

TEST PASSED

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 1, SENSOR=13)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
THE FOLLOWING DATA ARE FOR INFORMATION ONLY								
1	1111 1111	-24.375	-26.3	-0.4	-0.1		-21.4	-5.0
2	1111 1110	-8.750	-15.3	0.0	-1.6	11.0	-5.6	-9.8
3	1111 1101	6.875	8.9	0.0	0.1	24.2	10.3	-1.4
4	1111 1100	22.500	22.4	0.0	0.1	13.5	26.1	-3.7
5	1111 1011	38.125	40.7	-0.2	0.0	18.3	41.9	-1.2
6	1111 1010	53.750	52.4	0.3	0.3	11.7	57.7	-5.3
7	1111 1001	69.375	76.4	-0.1	-0.1	24.1	73.5	2.9
8	1111 1000	85.000	81.5	-0.3	-0.3	5.0	89.3	-7.9
9	1111 0111	100.625	101.5	-0.1	0.2	20.0	105.2	-3.7
10	1111 0110	116.250	113.1	0.1	0.2	11.6	121.0	-7.9
11	1111 0101	131.875	137.0	-0.1	-0.0	23.9	136.8	0.2
12	1111 0100	147.500	154.2	0.4	0.1	17.2	152.6	1.5
13	1111 0011	163.125	168.3	0.1	0.1	14.1	168.4	-0.2
14	1111 0010	178.750	183.3	-0.0	-0.2	15.1	184.2	-0.9
15	1111 0001	194.375	204.2	-0.1	-0.2	20.8	200.1	4.1
16	1111 0000	210.000	213.5	-0.0	0.3	9.3	215.9	-2.4
17	1110 1111	225.625	228.8	0.1	0.2	15.3	231.7	-2.9
18	1110 1110	241.250	238.8	-0.2	-0.3	10.0	247.5	-8.7
19	1110 1101	256.875	264.3	-0.3	-0.0	25.5	263.3	1.0
20	1110 1100	272.500	281.0	-0.3	-0.2	16.6	279.2	1.8
21	1110 1011	288.125	295.9	-0.0	-0.1	14.9	295.0	0.9
22	1110 1010	303.750	308.4	-0.2	-0.1	12.5	310.8	-2.4
23	1110 1001	319.375	331.5	-0.1	0.1	23.1	326.6	4.9
24	1110 1000	335.000	340.3	0.3	0.3	8.8	342.4	-2.1
25	1110 0111	350.625	356.8	-0.1	-0.1	16.5	358.2	-1.5

ORIGINAL PAGE IS OF POOR QUALITY

TEST 4.2.7-A 2/3 THRESHOLD TEST (BAND= 7 , SENSOR=13)

HAC TEST 527

Nov 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
26	1110 0110	366.250	368.8	-0.3	0.0	17.0	374.1	-5.3
27	1110 0101	381.875	392.0	0.1	0.1	23.2	389.9	2.2
28	1110 0100	397.500	412.9	-0.1	-0.5	20.8	405.7	7.2
29	1110 0011	413.125	423.3	-0.1	-0.1	10.4	421.5	1.8
30	1110 0010	428.750	438.6	-0.0	0.4	15.3	437.3	1.2
31	1110 0001	444.375	459.0	0.1	0.2	20.4	453.1	5.8
32	1110 0000	460.000	463.6	0.4	0.4	4.6	469.0	-5.4
33	1101 1111	475.625	483.4	-0.2	0.0	19.9	484.8	-1.3
34	1101 1110	491.250	494.1	0.2	0.2	10.6	500.6	-6.5
35	1101 1101	506.875	518.8	-0.1	-0.2	24.7	516.4	2.4
36	1101 1100	522.500	532.0	0.3	0.3	13.2	532.2	-0.2
37	1101 1011	538.125	550.3	-0.1	0.1	18.3	548.1	2.2
38	1101 1010	553.750	561.3	0.2	0.4	11.0	563.9	-2.6
39	1101 1001	569.375	585.6	-0.1	-0.0	24.3	579.7	5.9
40	1101 1000	585.000	593.6	-0.3	-0.0	7.9	595.5	-1.9
41	1101 0111	600.625	610.9	0.1	0.2	17.3	611.3	-0.5
42	1101 0110	616.250	622.0	-0.0	-0.2	11.1	627.1	-5.2
43	1101 0101	631.875	646.1	-0.1	-0.1	24.2	643.0	3.2
44	1101 0100	647.500	664.1	-0.0	-0.3	18.0	658.8	5.3
45	1101 0011	663.125	677.3	-0.0	0.0	13.2	674.6	2.7
46	1101 0010	678.750	691.6	-0.4	-0.1	14.3	690.4	1.1
47	1101 0001	694.375	713.1	-0.2	0.0	21.5	706.2	6.9
48	1101 0000	710.000	725.9	0.4	0.5	12.8	722.0	3.8
49	1100 1111	725.625	737.5	-0.0	-0.2	11.6	737.9	-0.4
50	1100 1110	741.250	746.6	-0.2	-0.1	9.2	753.7	-7.0
51	1100 1101	756.875	772.5	-0.0	0.1	25.9	769.5	3.0

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL .. FLT. S/N 3 PAGE 209
1981/11/30 11:27:05 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.3.5-8 A/D THRESHOLD TEST (BAND= 1, SENSOR=13)

HAC TEST 527

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
52	1100 1100	772.500	789.3	-0.2	-0.2	16.8	785.3	4.0
53	1100 1011	788.125	804.0	-0.1	-0.1	14.6	801.1	2.8
54	1100 1010	803.750	816.3	-0.4	-0.0	12.3	817.0	-0.7
55	1100 1001	819.375	838.8	-0.1	0.3	22.5	832.8	6.1
56	1100 1000	835.000	851.4	-0.0	-0.5	12.5	848.6	2.8
57	1100 0111	850.625	864.3	-0.2	-0.1	12.9	864.4	-0.1
58	1100 0110	866.250	875.4	-0.0	0.1	11.1	880.2	-4.8
59	1100 0101	881.875	899.2	0.0	0.0	23.7	896.0	3.1
60	1100 0100	897.500	920.0	-0.6	-0.4	20.8	911.9	8.1
61	1100 0011	913.125	930.3	-0.1	0.0	10.3	927.7	2.7
62	1100 0010	928.750	944.7	0.3	0.3	14.4	943.5	1.3
63	1100 0001	944.375	965.8	0.0	-0.1	21.0	959.3	6.5
64	1100 0000	960.000	978.3	0.3	0.3	12.5	975.1	3.2
65	1011 1111	975.625	993.3	-0.0	0.2	15.0	990.9	2.4
66	1011 1110	991.250	1003.1	0.5	0.5	9.8	1006.8	-3.7
67	1011 1101	1006.88	1029.8	-0.2	-0.1	26.7	1022.6	7.2
68	1011 1100	1022.50	1040.7	0.2	0.0	10.9	1038.4	2.3
69	1011 1011	1038.13	1060.0	0.2	0.3	19.3	1054.2	5.8
70	1011 1010	1053.75	1070.3	0.1	-0.4	10.3	1070.0	0.3
71	1011 1001	1069.38	1094.6	-0.2	-0.2	24.3	1085.9	8.8
72	1011 1000	1085.00	1098.8	0.0	0.3	4.1	1101.7	-2.9
73	1011 0111	1100.63	1120.1	0.3	0.2	21.3	1117.5	2.6
74	1011 0110	1116.25	1130.1	-0.2	-0.2	10.0	1133.3	-3.2
75	1011 0101	1131.88	1154.6	-0.2	-0.1	24.5	1149.1	5.5
76	1011 0100	1147.50	1171.4	-0.3	-0.2	16.8	1164.9	6.5
77	1011 0011	1163.13	1186.7	0.0	-0.1	15.3	1180.8	6.0
78	1011 0010	1178.75	1200.3	-0.2	-0.2	13.6	1196.6	3.8

ORIGINAL PAGE IS OF POOR QUALITY

1981-11/30 11:27:05 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

4.5.4.1-13 A/D THRESHOLD TEST (BAND= 1 , SENSOR=13)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO- 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
79	1011 0001	1194.38	1221.4	0.0	0.0	21.1	1212.4	9.1
80	1011 0000	1210.00	1233.0	0.4	0.5	11.5	1228.2	4.8
81	1010 1111	1225.63	1245.9	-0.2	-0.2	12.9	1244.0	1.8
82	1010 1110	1241.25	1256.6	-0.5	0.0	10.7	1259.8	-3.2
83	1010 1101	1256.88	1282.1	0.1	0.1	25.5	1275.7	6.5
84	1010 1100	1272.50	1296.4	-0.3	0.0	14.2	1291.5	4.9
85	1010 1011	1288.13	1312.5	-0.3	-0.2	16.2	1307.3	5.2
86	1010 1010	1303.75	1323.4	-0.0	0.3	10.9	1323.1	0.3
87	1010 1001	1319.38	1346.6	0.1	0.1	23.2	1338.9	7.7
88	1010 1000	1335.00	1355.4	-0.4	-0.3	8.7	1354.8	0.6
89	1010 0111	1350.63	1372.5	-0.3	-0.0	17.1	1370.6	1.9
90	1010 0110	1366.25	1382.3	0.2	0.2	9.8	1386.4	-4.1
91	1010 0101	1381.88	1406.6	0.2	-0.0	24.3	1402.2	4.4
92	1010 0100	1397.50	1426.9	0.3	0.4	20.3	1418.0	8.9
93	1010 0011	1413.13	1438.7	0.0	0.1	11.8	1433.8	4.8
94	1010 0010	1428.75	1453.2	0.1	0.3	14.6	1449.7	3.6
95	1010 0001	1444.38	1473.5	-0.1	-0.1	20.3	1465.5	8.1
96	1010 0000	1460.00	1481.6	0.8	0.1	8.0	1481.3	0.3
97	1001 1111	1475.63	1497.1	0.3	0.3	15.5	1497.1	-0.0
98	1001 1110	1491.25	1506.7	0.5	0.0	9.6	1512.9	-6.3
99	1001 1101	1506.88	1533.8	-0.2	-0.3	27.2	1528.7	5.1
100	1001 1100	1522.50	1544.9	0.0	-0.5	11.1	1544.6	0.3
101	1001 1011	1538.13	1563.9	0.2	0.2	19.0	1560.4	3.5
102	1001 1010	1553.75	1573.7	-0.4	-0.3	9.8	1576.2	-2.5
103	1001 1001	1569.38	1598.3	-0.1	0.0	24.6	1592.0	6.3
104	1001 1000	1585.00	1605.6	0.1	0.1	7.2	1607.8	-2.3

ORIGINAL PAGE IS OF POOR QUALITY

[illegible] A/D THRESHOLD TEST (BAND= 1, SENSOR=13)

HAC TEST S27

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
105	1001 0111	1600.63	1623.9	0.2	0.0	18.3	1623.7	0.2
106	1001 0110	1616.25	1633.2	-0.0	0.1	9.3	1639.5	-6.3
107	1001 0101	1631.88	1659.4	0.5	-0.9	26.2	1655.3	4.1
108	1001 0100	1647.50	1675.5	-0.3	-0.4	16.2	1671.1	4.4
109	1001 0011	1663.13	1690.5	-0.2	-0.2	15.0	1686.9	3.6
110	1001 0010	1678.75	1703.8	-0.3	-0.1	13.3	1702.7	1.1
111	1001 0001	1694.38	1724.9	0.1	0.2	21.1	1718.6	6.4
112	1001 0000	1710.00	1740.6	0.2	0.0	15.7	1734.4	6.2
113	1000 1111	1725.63	1749.5	-0.3	-0.3	8.8	1750.2	-0.7
114	1000 1110	1741.25	1759.3	-0.0	0.4	9.8	1766.0	-6.7
115	1000 1101	1756.88	1785.6	0.2	0.2	26.3	1781.8	3.8
116	1000 1100	1772.50	1799.6	0.4	0.4	14.0	1797.6	2.0
117	1000 1011	1788.13	1816.1	-0.3	0.0	16.4	1813.5	2.6
118	1000 1010	1803.75	1826.5	0.2	0.2	10.4	1829.3	-2.8
119	1000 1001	1819.38	1850.1	0.2	0.0	23.6	1845.1	5.0
120	1000 1000	1835.00	1862.7	-0.1	-0.3	12.6	1860.9	1.8
121	1000 0111	1850.63	1875.7	0.0	0.2	13.0	1876.7	-1.0
122	1000 0110	1866.25	1885.4	0.1	0.2	9.7	1892.6	-7.1
123	1000 0101	1881.88	1910.4	-0.2	-0.2	25.0	1908.4	2.1
124	1000 0100	1897.50	1930.5	0.3	0.0	20.1	1924.2	6.4
125	1000 0011	1913.13	1942.0	0.2	0.2	11.5	1940.0	2.0
126	1000 0010	1928.75	1956.3	0.3	-0.3	14.3	1955.8	0.5
127	1000 0001	1944.38	1976.9	-0.2	-0.1	20.6	1971.6	5.2
128	1000 0000	1960.00	1985.2	0.0	0.4	8.3	1987.5	-2.3
129	0111 1111	1975.63	2002.5	0.0	-3.2	17.3	2003.3	-0.8
130	0111 1110	1991.25	2009.5	-0.5	-0.4	7.0	2019.1	-9.6

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
131	0111 1101	2006.88	2035.4	-0.1	0.0	25.9	2034.9	0.5
132	0111 1100	2022.50	2048.6	-0.0	-0.1	13.2	2050.7	-2.2
133	0111 1011	2038.13	2065.9	0.3	0.0	17.3	2066.5	-0.7
134	0111 1010	2053.75	2076.6	-0.1	-0.2	10.7	2082.4	-5.8
135	0111 1001	2069.38	2101.6	0.0	0.2	25.0	2098.2	3.4
136	0111 1000	2085.00	2103.6	0.0	0.1	2.0	2114.0	-10.4
137	0111 0111	2100.63	2126.3	-0.2	-0.3	22.7	2129.8	-3.5
138	0111 0110	2116.25	2135.5	-0.1	3.4	9.2	2145.6	-10.2
139	0111 0101	2131.88	2161.6	-0.1	-0.1	26.2	2161.5	0.2
140	0111 0100	2147.50	2177.6	0.0	0.0	16.0	2177.3	0.4
141	0111 0011	2163.13	2192.6	-0.3	-0.2	15.0	2193.1	-0.5
142	0111 0010	2178.75	2206.7	0.1	0.4	14.1	2208.9	-2.2
143	0111 0001	2194.38	2227.8	0.2	0.2	21.1	2224.7	3.1
144	0111 0000	2210.00	2236.9	-0.2	-0.4	9.1	2240.5	-3.7
145	0110 1111	2225.63	2251.7	-0.3	0.0	14.8	2256.4	-4.6
146	0110 1110	2241.25	2262.2	0.1	0.1	10.5	2272.2	-9.9
147	0110 1101	2256.88	2287.7	0.1	-0.0	25.5	2288.0	-0.3
148	0110 1100	2272.50	2302.8	0.5	0.6	15.1	2303.8	-1.0
149	0110 1011	2288.13	2318.3	0.0	0.2	15.5	2319.6	-1.4
150	0110 1010	2303.75	2330.1	0.1	0.4	11.8	2335.4	-5.3
151	0110 1001	2319.38	2354.3	-0.3	-0.2	24.2	2351.3	3.0
152	0110 1000	2335.00	2360.2	-0.2	-0.0	5.9	2367.1	-6.9
153	0110 0111	2350.63	2378.3	0.2	0.2	18.1	2382.9	-4.6
154	0110 0110	2366.25	2380.1	0.1	-0.0	9.7	2398.7	-10.6
155	0110 0101	2381.88	2414.3	-0.2	-0.4	26.2	2414.5	-0.2
156	0110 0100	2397.50	2434.4	0.0	-0.4	20.0	2430.4	4.0
157	0110 0011	2413.13	2444.7	0.3	0.3	10.3	2446.2	-1.5

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL .. FLT. S/N 3 PAGE 213

1981/11/30 11:27:05 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] THRESHOLD TEST (BAND= 1, SENSOR=13)

HAC TEST S27

BV 30 81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) NOMINAL	LEVELS RATIO= 1 :1 LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
158	0110 0010	2428.75	2460.6	-0.6	-0.7	15.9	2462.0	-1.3
159	0110 0001	2444.38	2480.3	0.0	0.0	19.6	2477.8	2.5
160	0110 0000	2460.00	2485.4	-1.3	-1.2	5.1	2493.6	-8.2
161	0101 1111	2475.63	2503.2	0.3	-0.1	17.8	2509.4	-6.3
162	0101 1110	2491.25	2513.1	-0.5	-0.5	9.9	2525.3	-12.2
163	0101 1101	2506.88	2539.5	-0.1	0.3	26.4	2541.1	-1.6
164	0101 1100	2522.50	2553.8	-0.4	-0.4	14.3	2556.9	-3.1
165	0101 1011	2538.13	2570.5	-0.3	-0.3	16.7	2572.7	-2.2
166	0101 1010	2553.75	2580.5	-0.3	-0.1	10.0	2588.5	-8.1
167	0101 1001	2569.38	2606.0	0.1	0.2	25.6	2604.3	1.7
168	0101 1000	2585.00	2610.7	0.1	0.0	4.7	2620.2	-9.4
169	0101 0111	2600.63	2630.5	-0.4	-0.3	19.8	2636.0	-5.4
170	0101 0110	2616.25	2639.1	-0.1	0.1	8.6	2651.8	-12.7
171	0101 0101	2631.88	2665.8	0.5	0.3	26.6	2667.6	-1.9
172	0101 0100	2647.50	2682.6	0.5	0.4	16.8	2683.4	-0.9
173	0101 0011	2663.13	2697.0	-0.3	-0.0	14.4	2699.3	-2.3
174	0101 0010	2678.75	2710.8	0.1	0.0	13.8	2715.1	-4.3
175	0101 0001	2694.38	2732.4	0.0	-0.0	21.6	2730.9	1.5
176	0101 0000	2710.00	2744.5	-0.1	-0.0	12.1	2746.7	-2.2
177	0100 1111	2725.63	2755.6	-0.0	0.2	11.0	2762.5	-7.0
178	0100 1110	2741.25	2765.8	0.3	0.4	10.2	2778.3	-12.6
179	0100 1101	2756.88	2792.1	-0.3	-0.3	26.4	2794.2	-2.0
180	0100 1100	2772.50	2807.4	0.3	-0.0	15.3	2810.0	-2.5
181	0100 1011	2788.13	2822.6	0.3	0.2	15.2	2825.8	-3.1
182	0100 1010	2803.75	2834.0	0.3	-0.2	11.3	2841.6	-7.6
183	0100 1001	2819.38	2858.6	-0.3	-0.3	24.6	2857.4	1.2

ORIGINAL PAGE IS OF POOR QUALITY

HS-[illegible] THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 214
1981/11/30 11:27:05 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
[illegible] A/D THRESHOLD [illegible] (BAND= 1, SENSOR=13)

HAC TEST S27

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
183	0100 1000	2835.00	2870.4	-0.1	0.1	11.8	2873.2	-2.8
18[illegible]	0100 0111	2850.63	2882.6	0.3	0.2	12.2	2889.1	-6.4
18[illegible]	0100 0110	2866.25	2891.6	-0.0	0.0	9.0	2904.9	-13.2
18[illegible]	0100 0101	2881.88	2918.7	-0.2	-0.0	27.0	2920.7	-2.0
18[illegible]	0100 0100	2897.50	2939.1	-0.5	-0.4	20.5	2936.5	2.6
18[illegible]	0100 0011	2913.13	2949.2	0.2	0.0	10.1	2952.3	-3.1
19[illegible]	0100 0010	2928.75	2964.3	-0.0	0.0	15.1	2968.2	-3.9
19[illegible]	0100 0001	2944.38	2984.2	0.0	0.0	19.9	2984.0	0.3
19[illegible]	0100 0000	2960.00	2999.6	-0.7	-0.6	15.3	2999.8	-0.2
193	0011 1111	2975.63	3013.1	-0.3	-0.3	13.5	3015.6	-2.5
194	0011 1110	2991.25	3020.4	-0.3	0.4	7.3	3031.4	-11.0
195	0011 1101	3006.88	3047.8	0.1	0.2	27.3	3047.2	0.5
196	0011 1100	3022.50	3060.6	-0.6	0.1	12.8	3063.1	-2.5
197	0011 1011	3038.13	3078.9	-0.3	-0.3	18.4	3078.9	0.1
19[illegible]	0011 1010	3053.75	3087.8	0.0	0.3	8.8	3094.7	-6.9
199	0011 1001	3069.38	3114.5	0.3	0.3	26.7	3110.5	4.0
200	0011 1000	3085.00	3115.4	0.0	0.1	0.9	3126.3	-10.9
201	0011 0111	3100.63	3139.2	-0.5	1.3	23.7	3142.1	-3.0
202	0011 0110	3116.25	3150.4	0.3	0.2	11.2	3158.0	-7.6
20[illegible]	0011 0101	3131.88	3174.9	0.1	0.0	24.6	3173.8	1.2
20[illegible]	0011 0100	3147.50	3190.1	0.7	0.8	15.1	3189.6	0.5
20[illegible]	0011 0011	3163.13	3205.9	-0.0	0.3	15.8	3205.4	0.5
20[illegible]	0011 0010	3178.75	3219.3	-0.1	0.1	13.4	3221.2	-2.0
207	0011 0001	3194.38	3242.1	-0.5	-0.3	22.8	3237.1	5.0
208	0011 0000	3210.00	3252.7	0.5	0.5	10.6	3252.9	-0.1
209	0010 1111	3225.63	3264.8	0.6	0.7	12.0	3268.7	-3.9

ORIGINAL PAGE IS OF POOR QUALITY

[illegible] A/D THRESHOLD TEST (BAND= 1, SENSOR=13)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
210	0010 1110	3241.25	3274.7	0.1	0.1	9.9	3284.5	-9.8
211	0010 1101	3256.88	3302.0	-0.2	-0.2	27.4	3300.3	1.7
212	0010 1100	3272.50	3316.7	-0.0	1.3	14.7	3316.1	0.6
213	0010 1011	3288.13	3332.8	0.4	0.4	16.1	3332.0	0.9
214	0010 1010	3303.75	3343.4	-0.1	-0.1	10.5	3347.8	-4.4
215	0010 1001	3319.38	3369.3	-0.5	-0.3	25.9	3363.6	5.7
216	0010 1000	3335.00	3374.4	0.1	-0.1	5.1	3379.4	-5.0
217	0010 0111	3350.63	3395.1	0.3	0.1	20.7	3395.2	-0.1
218	0010 0110	3366.25	3405.8	-3.6	-0.3	10.7	3411.0	-5.2
219	0010 0101	3381.88	3429.5	-0.1	0.3	23.7	3426.9	2.7
220	0010 0100	3397.50	3449.2	-1.0	-1.0	19.7	3442.7	6.5
221	0010 0011	3413.13	3461.0	-0.7	-0.8	11.8	3458.5	2.5
222	0010 0010	3428.75	3475.5	-0.2	-0.3	14.5	3474.3	1.2
223	0010 0001	3444.38	3496.6	-0.0	0.1	21.1	3490.1	6.5
224	0010 0000	3460.00	3505.8	-1.1	0.0	9.1	3506.0	-0.2
225	0001 1111	3475.63	3519.8	-0.5	-0.4	14.1	3521.8	-1.9
226	0001 1110	3491.25	3528.1	-0.1	0.3	8.3	3537.6	-9.5
227	0001 1101	3506.88	3556.5	0.1	0.3	28.4	3553.4	3.1
228	0001 1100	3522.50	3569.3	0.8	0.8	12.8	3569.2	0.1
229	0001 1011	3538.13	3587.9	-0.6	-0.4	18.6	3585.0	2.9
230	0001 1010	3553.75	3596.8	-0.0	-0.1	8.8	3600.9	-4.1
231	0001 1001	3569.38	3623.7	0.5	0.1	27.0	3616.7	7.1
232	0001 1000	3585.00	3627.8	0.2	0.2	4.1	3632.5	-4.7
233	0001 0111	3600.63	3649.9	0.0	0.2	22.1	3648.3	1.6
234	0001 0110	3616.25	3659.6	0.1	0.3	9.6	3664.1	-4.5
235	0001 0101	3631.88	3685.2	-0.4	-0.3	25.6	3679.9	5.2
236	0001 0100	3647.50	3700.4	0.7	0.9	15.2	3695.8	4.6

ORIGINAL PAGE IS OF POOR QUALITY

HS 226 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 216
1981/11/30 11:27:05 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.1.3.5-8 A/D THRESHOLD TEST (BAND= 1, SENSOR=13)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
237	0001 0011	3663.13	3716.5	0.1	0.4	16.1	3711.6	4.9
238	0001 0010	3678.75	3729.1	0.2	0.0	12.6	3727.4	1.7
239	0001 0001	3691.38	3752.7	-0.6	-0.5	23.6	3743.2	9.5
240	0001 0000	3710.00	3767.4	-0.7	0.0	14.7	3759.0	8.4
241	0000 1111	3725.63	3775.5	0.4	0.5	8.1	3774.9	0.7
242	0000 1110	3741.25	3785.1	-0.1	-0.1	9.6	3790.7	-5.6
243	0000 1101	3756.88	3813.1	-0.5	-0.3	28.0	3806.5	6.7
244	0000 1100	3772.50	3828.0	-0.6	-0.6	14.8	3822.3	5.7
245	0000 1011	3788.13	3844.1	0.3	-0.0	16.1	3838.1	6.0
246	0000 1010	3803.75	3854.6	-0.2	-0.1	10.5	3853.9	0.6
247	0000 1001	3819.38	3880.5	-0.9	0.3	25.9	3869.8	10.7
248	0000 1000	3835.00	3890.5	-0.3	0.1	10.0	3885.6	4.9
249	0000 0111	3850.63	3907.1	-0.2	-0.2	16.6	3901.4	5.7
250	0000 0110	3866.25	3917.1	-0.2	-0.2	10.1	3917.2	-0.1
251	0000 0101	3881.88	3941.6	0.1	0.3	24.5	3933.0	8.6
252	0000 0100	3897.50	3961.8	-1.4	0.0	20.1	3948.8	12.9
253	0000 0011	3913.13	3973.9	-0.5	-0.3	12.1	3964.7	9.2
254	0000 0010	3928.75	3987.4	-0.1	0.3	13.5	3980.5	7.0
255	0000 0001	3944.38	4008.7	-0.0	0.0	21.3	3996.3	12.4

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 217
1981/11/30 11:33:28 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.3.5-8 A/D THRESHOLD TEST (BAND= 1, SENSOR=14)
S U M M A R Y

HAC TEST S27

NOV 30 '81

CHECK 1) RMS ERROR, 2) THRESHOLD INCREMENT(+/- 0.0 = THRH INC <= 31.2)
THE REMAINING DATA ARE FOR INFORMATION ONLY

BEST FIT STRAIGHT LINE IS: Y =15.845X -38.6MV

DEVIATION OF SLOPE FROM IDEAL IS: 1.409%
OFFSET IS:-38.6MV
COEFFICIENT OF DETERMINATION IS: R**2= .99998530
ANALOG INPUT DURING DC RESTORE IS:64.5MV

RMS ERROR = 4.708MV REQMT: RMS ERROR <=7.812MV

THRESHOLD INCREMENT MEASUREMENT

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
28.4MV	201	15.927MV	1.9MV	200	5.358MV

LOWER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
1.7MV	129	-0.018MV	-2.1MV	58	.489MV

UPPER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
1.7MV	129	0.018MV	-2.5MV	26	.556MV

TEST PASSED

ORIGINAL PAGE IS
OF POOR QUALITY

1981/11/30 11:33:41 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.1.1.3.5-3 A/D THRESHOLD TEST (BAND= 1 , SENSOR=14)

HAC TEST 527

EO 30 87

HIGHEST BIT DOMINANT	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
THE FOLLOWING DATA ARE FOR INFORMATION ONLY								
1	1111 1111	-24.375	-29.4	-1.1	0.3		-22.8	-6.7
2	1111 1110	-8.750	-16.2	-0.0	0.5	13.2	-6.9	-9.3
3	1111 1101	6.875	7.1	0.8	0.8	23.3	8.9	-1.8
4	1111 1100	22.500	19.8	0.7	0.6	12.7	24.8	-5.0
5	1111 1011	38.125	33.1	0.1	0.2	18.2	40.6	-2.6
6	1111 1010	53.750	51.1	0.0	-0.1	13.0	56.5	-5.4
7	1111 1001	69.375	74.4	-0.1	-0.0	23.3	72.3	2.1
8	1111 1000	85.000	81.0	-1.0	-0.9	6.7	88.2	-7.1
9	1111 0111	100.625	99.3	-0.0	0.2	18.3	104.0	-4.7
10	1111 0110	116.250	114.7	0.5	0.5	15.4	119.8	-5.1
11	1111 0101	131.875	135.4	-0.0	0.0	20.6	135.7	-0.3
12	1111 0100	147.500	152.0	0.2	0.3	16.6	151.5	0.4
13	1111 0011	163.125	166.5	-0.2	-0.1	14.5	167.4	-0.9
14	1111 0010	178.750	182.5	-0.1	0.0	16.0	183.2	-0.7
15	1111 0001	194.375	202.4	-0.1	0.0	19.9	199.1	3.4
16	1111 0000	210.000	212.1	-0.1	0.4	9.7	214.9	-2.8
17	1110 1111	225.625	226.9	-0.2	-0.1	14.8	230.8	-3.9
18	1110 1110	241.250	240.8	-0.1	-0.6	14.0	246.6	-5.8
19	1110 1101	256.875	264.0	-1.1	-1.2	23.2	262.5	1.6
20	1110 1100	272.500	279.1	-0.4	-0.3	15.1	278.3	0.8
21	1110 1011	288.125	294.2	-0.2	0.0	15.0	294.1	0.0
22	1110 1010	303.750	307.6	0.1	0.2	13.4	310.0	-2.4
23	1110 1001	319.375	330.1	-0.1	-0.1	22.6	325.8	4.3
24	1110 1000	335.000	342.1	1.0	1.1	12.0	341.7	0.5
25	1110 0111	350.625	354.9	-0.1	0.2	12.8	357.5	-2.6

ORIGINAL PAGE IS OF POOR QUALITY

1981/11/30 11:33:41 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3-T-3-T5--E (0/1) THRESHOLD TEST (BAND= 1, SENSOR=14)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO- 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
26	1110 0110	366.250	371.5	-0.9	-2.5	16.6	373.4	-1.8
27	1110 0101	381.875	391.0	-0.1	-0.1	19.5	389.2	1.8
28	1110 0100	397.500	411.5	-0.3	0.0	20.5	405.1	6.4
29	1110 0011	413.125	427.1	0.1	0.1	10.6	420.9	1.1
30	1110 0010	428.750	438.8	-0.1	0.2	16.8	436.8	2.1
31	1110 0001	444.375	458.0	0.0	0.0	19.1	452.6	5.4
32	1110 0000	460.000	463.1	-0.0	0.2	5.1	468.4	-5.3
33	1101 1111	475.625	481.8	0.0	0.1	18.7	484.3	-2.4
34	1101 1110	491.250	494.3	0.3	0.3	12.5	500.1	-5.8
35	1101 1101	506.875	517.9	1.1	0.0	23.5	516.0	1.9
36	1101 1100	522.500	530.9	0.4	0.9	13.0	531.8	-0.9
37	1101 1011	538.125	549.2	-0.0	-0.2	18.3	547.7	1.5
38	1101 1010	553.750	561.1	-0.2	-0.2	11.9	563.5	-2.4
39	1101 1001	569.375	584.7	-0.0	0.3	23.6	579.4	5.3
40	1101 1000	585.000	594.3	-0.9	-1.0	9.7	595.2	-0.9
41	1101 0111	600.625	609.9	-0.3	-0.2	15.6	611.0	-1.1
42	1101 0110	616.250	624.8	0.3	0.0	14.9	626.9	-2.1
43	1101 0101	631.875	645.5	0.0	0.1	20.7	642.7	2.8
44	1101 0100	647.500	663.0	-0.1	-0.3	17.5	658.6	4.4
45	1101 0011	663.125	676.8	-0.1	-0.1	13.8	674.4	2.4
46	1101 0010	678.750	691.9	-0.1	0.2	15.0	690.3	1.6
47	1101 0001	694.375	712.4	0.0	0.0	20.5	706.1	6.3
48	1101 0000	710.000	725.9	0.5	0.5	13.5	722.0	4.0
49	1100 1111	725.625	736.7	-0.2	-0.0	10.8	737.8	-1.1
50	1100 1110	741.250	749.9	-0.5	-0.4	13.2	753.7	-3.7
51	1100 1101	756.875	772.5	-0.1	1.1	22.5	769.5	3.0

ORIGINAL PAGE IS OF POOR QUALITY

1981/11/30 11:33:41 FUNCTIONALITY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] ADC THRESHOLD TEST CHAND= 3 , SENSOR=1-4 >

HAC TEST S27

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
52	1100 1100	772.500	788.8	-0.3	-0.3	16.3	785.3	3.4
53	1100 1011	789.125	803.3	-0.0	0.2	14.5	801.2	2.1
54	1100 1010	805.750	816.1	0.2	0.2	12.7	817.0	-1.0
55	1100 1001	819.375	839.0	-0.2	-0.1	22.9	832.9	6.1
56	1100 1000	835.000	851.6	1.0	-0.0	12.7	848.7	2.9
57	1100 0111	850.625	863.7	0.2	0.1	12.1	864.6	-0.8
58	1100 0110	866.250	879.2	-2.1	0.6	15.4	880.4	-1.2
59	1100 0101	881.875	899.3	-0.1	-0.1	20.1	896.3	3.0
60	1100 0100	897.500	920.0	-0.1	0.1	20.7	912.1	7.8
61	1100 0011	913.125	930.3	0.1	0.1	10.3	928.0	2.3
62	1100 0010	928.750	946.3	-0.0	0.0	16.0	943.8	2.5
63	1100 0001	944.375	965.8	-0.0	-0.1	19.5	959.6	6.2
64	1100 0000	960.000	978.7	-0.3	-0.2	12.8	975.5	3.2
65	1011 1111	975.625	993.7	0.0	-0.3	14.5	991.3	1.9
66	1011 1110	991.250	1004.7	0.2	0.3	11.5	1007.2	-2.4
67	1011 1101	1006.88	1030.0	-0.1	-1.4	25.2	1023.0	7.0
68	1011 1100	1022.50	1041.2	0.3	0.3	11.2	1038.9	2.3
69	1011 1011	1038.13	1060.2	-0.3	-0.3	18.9	1054.7	5.4
70	1011 1010	1053.75	1070.7	-0.2	-0.1	10.5	1070.6	0.2
71	1011 1001	1069.38	1094.8	0.3	0.3	24.0	1086.4	8.4
72	1011 1000	1085.00	1099.8	0.0	0.9	5.1	1102.2	-2.4
73	1011 0111	1100.63	1120.3	-0.3	-0.3	20.4	1118.1	2.2
74	1011 0110	1116.25	1134.7	-0.1	-0.5	14.4	1133.9	0.8
75	1011 0101	1131.88	1155.2	0.1	0.1	20.4	1149.8	5.4
76	1011 0100	1147.50	1171.7	-0.3	-0.3	16.5	1165.6	6.0
77	1011 0011	1163.13	1187.1	-0.3	-0.0	15.4	1181.5	5.6
78	1011 0010	1178.75	1200.5	0.3	0.3	13.4	1197.3	3.2

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 221
1981/11/30 11:33:41 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
[illegible] A/D THRESHOLD TEST (BAND= 1 , SENSOR=14)

HAC TEST S27

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	TOTAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO- 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
79	1011 0001	1194.38	1222.3	-0.0	-0.4	21.8	1213.2	9.2
80	1011 0000	1210.00	1233.9	0.5	0.4	11.6	1229.0	4.9
81	1010 1111	1225.63	1245.9	0.0	0.1	17.0	1244.9	1.0
82	1010 1110	1241.25	1258.5	-0.7	-0.7	17.6	1260.7	-2.2
83	1010 1101	1256.88	1281.4	1.5	1.4	22.9	1276.5	4.9
84	1010 1100	1272.50	1296.7	-0.3	0.0	15.2	1292.4	4.3
85	1010 1011	1288.13	1312.6	0.3	0.3	15.9	1308.2	4.3
86	1010 1010	1303.75	1324.4	0.0	-0.2	11.8	1324.1	0.3
87	1010 1001	1319.38	1347.7	-0.3	-0.3	23.3	1339.9	7.8
88	1010 1000	1335.00	1357.7	-0.0	-1.0	10.0	1355.8	2.0
89	1010 0111	1350.63	1372.6	0.3	0.4	14.9	1371.6	1.0
90	1010 0110	1366.25	1387.0	0.9	0.8	14.4	1387.5	-0.5
91	1010 0101	1381.88	1407.9	-0.1	-0.1	20.9	1403.3	4.6
92	1010 0100	1397.50	1427.4	0.0	-0.0	19.5	1419.2	8.2
93	1010 0011	1413.13	1439.5	0.0	-0.3	12.1	1435.0	4.5
94	1010 0010	1428.75	1454.7	-0.5	-0.5	15.1	1450.8	3.8
95	1010 0001	1444.38	1474.3	-0.0	0.4	19.6	1466.7	7.6
96	1010 0000	1460.00	1483.0	0.3	0.2	8.8	1482.5	0.5
97	1001 1111	1475.63	1498.1	-0.1	-0.1	15.0	1498.4	-0.3
98	1001 1110	1491.25	1509.0	0.2	-0.1	10.9	1514.2	-5.2
99	1001 1101	1506.88	1534.8	0.3	0.3	25.8	1530.1	4.8
100	1001 1100	1522.50	1545.7	0.0	-0.2	10.8	1545.9	-0.3
101	1001 1011	1538.13	1564.4	0.0	-0.0	18.8	1561.8	2.7
102	1001 1010	1553.75	1574.6	0.0	0.2	10.2	1577.6	-3.0
103	1001 1001	1569.38	1599.5	0.1	0.2	24.9	1593.5	6.0
104	1001 1000	1585.00	1607.2	1.0	1.0	7.7	1609.3	-2.1

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 222

1981/11/30 11:33:41 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] A/D THRESHOLD TEST (BAND= [illegible] SENSOR=14)

HAC TEST S27

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
105	1001 0111	1600.63	1625.0	-0.4	0.0	17.7	1625.1	-0.2
106	1001 0110	1616.25	1638.7	-0.4	-0.4	13.8	1641.0	-2.3
107	1001 0101	1631.88	1659.9	-0.0	1.4	21.2	1656.8	3.1
108	1001 0100	1647.50	1676.3	-0.1	-0.1	16.3	1672.7	3.6
109	1001 0011	1663.13	1691.3	0.0	0.3	15.0	1688.5	2.8
110	1001 0010	1678.75	1704.6	0.3	0.2	13.3	1704.4	0.3
111	1001 0001	1694.38	1726.7	-0.8	-0.6	22.0	1720.2	6.5
112	1001 0000	1710.00	1742.1	0.7	-0.0	15.4	1736.1	6.1
113	1000 1111	1725.63	1750.5	0.1	0.1	8.4	1751.9	-1.4
114	1000 1110	1741.25	1762.0	0.0	0.3	11.5	1767.7	-5.7
115	1000 1101	1756.88	1786.2	1.1	1.1	24.1	1783.6	2.6
116	1000 1100	1772.50	1800.9	0.0	0.3	14.7	1799.4	1.5
117	1000 1011	1788.13	1816.9	0.3	0.4	16.0	1815.3	1.6
118	1000 1010	1803.75	1828.2	-0.3	-0.3	11.3	1831.1	-2.9
119	1000 1001	1819.38	1852.1	-0.2	-0.1	23.9	1847.0	5.1
120	1000 1000	1835.00	1865.0	-1.2	-1.0	12.9	1862.8	2.1
121	1000 0111	1850.63	1877.2	-0.0	-0.3	12.2	1878.7	-1.5
122	1000 0110	1866.25	1891.2	0.3	0.5	14.0	1894.5	-3.1
123	1000 0101	1881.88	1913.5	0.0	-1.2	22.3	1910.4	3.2
124	1000 0100	1897.50	1932.0	-0.0	0.1	18.5	1926.2	5.3
125	1000 0011	1913.13	1943.6	-0.1	0.0	11.5	1942.0	1.5
126	1000 0010	1928.75	1958.4	-0.5	-0.1	14.8	1957.9	0.5
127	1000 0001	1944.38	1978.4	0.5	0.4	20.0	1973.7	4.7
128	1000 0000	1960.00	1987.2	0.0	0.7	8.8	1989.6	-2.4
129	0111 1111	1975.63	2000.8	1.7	1.7	13.6	2005.4	-4.6
130	0111 1110	1991.25	2012.7	0.0	-0.4	11.9	2021.3	-8.6

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 223
1981/11/30 11:33:41 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
[illegible] A/D THRESHOLD TEST (BAND= 1, SENSOR=14)

HAC TEST S27

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO- 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
131	0111 1101	2006.88	2037.3	0.5	0.4	24.6	2037.1	0.2
132	0111 1100	2022.50	2050.0	0.1	0.0	12.7	2053.0	-2.9
133	0111 1011	2038.13	2068.1	-0.4	0.0	18.1	2068.8	-0.7
134	0111 1010	2053.75	2078.5	0.1	0.3	10.4	2084.7	-6.1
135	0111 1001	2069.38	2102.6	-0.0	1.2	24.1	2100.5	2.1
136	0111 1000	2085.00	2106.5	0.9	0.9	3.9	2116.3	-9.9
137	0111 0111	2100.63	2127.7	-0.1	0.4	21.2	2132.2	-4.5
138	0111 0110	2116.25	2142.4	-0.5	-0.5	14.7	2148.0	-5.7
139	0111 0101	2131.88	2164.5	-0.4	-0.4	22.1	2163.9	0.6
140	0111 0100	2147.50	2180.2	-0.2	0.0	15.7	2179.7	0.5
141	0111 0011	2163.13	2194.7	0.2	0.2	14.5	2195.6	-0.9
142	0111 0010	2178.75	2209.1	-0.0	-0.2	14.4	2211.4	-2.3
143	0111 0001	2194.38	2229.8	0.2	0.2	20.7	2227.3	2.6
144	0111 0000	2210.00	2239.4	-0.0	-0.6	9.5	2243.1	-3.7
145	0110 1111	2225.63	2253.3	0.4	0.5	13.9	2258.9	-5.6
146	0110 1110	2241.25	2265.6	0.6	0.5	12.3	2274.8	-9.2
147	0110 1101	2256.88	2290.7	-0.5	-0.1	25.1	2290.6	0.1
148	0110 1100	2272.50	2305.1	0.0	1.6	14.3	2306.5	-1.4
149	0110 1011	2288.13	2320.9	-0.0	-0.4	15.8	2322.3	-1.4
150	0110 1010	2303.75	2332.6	0.3	-0.3	11.7	2338.2	-5.5
151	0110 1001	2319.38	2356.6	-0.0	-1.5	24.0	2354.0	2.6
152	0110 1000	2335.00	2364.3	-1.0	-1.3	7.7	2369.9	-5.5
153	0110 0111	2350.63	2380.9	-0.5	-0.5	16.6	2385.7	-4.8
154	0110 0110	2366.25	2395.1	0.3	-0.0	14.2	2401.6	-6.4
155	0110 0101	2381.88	2416.8	0.5	0.4	21.6	2417.4	-0.6
156	0110 0100	2397.50	2435.7	0.0	0.0	18.9	2433.2	2.5
157	0110 0011	2413.13	2447.6	-0.3	-0.3	11.8	2449.1	-1.5

ORIGINAL PAGE IS OF POOR QUALITY

1981/11/30 11:33:41 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] PROCESSED BY [illegible] GROUND= 1 + SENSOR=14

HAC TEST 527

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
153	0110 0010	2428.75	2462.7	0.0	0.4	15.1	2464.9	-2.2
154	0110 0001	2444.38	2482.9	-0.4	-0.3	20.2	2480.8	2.1
155	0110 0000	2460.00	2487.5	0.0	-0.0	4.6	2496.6	-9.2
156	0101 1111	2475.63	2506.0	-0.5	0.0	18.5	2512.5	-6.5
157	0101 1110	2491.25	2517.5	-0.1	0.0	11.5	2528.3	-10.9
158	0101 1101	2506.88	2543.1	0.0	-0.5	25.6	2544.2	-1.1
159	0101 1100	2522.50	2555.7	0.2	0.2	12.6	2560.0	-4.3
160	0101 1011	2538.13	2572.7	-0.0	0.3	16.9	2575.9	-3.2
161	0101 1010	2553.75	2582.9	0.1	0.2	10.2	2591.7	-8.8
162	0101 1001	2569.38	2609.4	-0.3	-0.3	26.4	2607.5	1.8
163	0101 1000	2585.00	2614.0	1.1	-0.0	4.7	2623.4	-9.3
164	0101 0111	2600.63	2637.6	0.5	0.5	18.6	2639.2	-6.6
165	0101 0110	2616.25	2646.2	0.0	0.5	13.6	2655.1	-8.8
166	0101 0101	2631.88	2669.8	-0.5	-0.5	23.5	2670.9	-1.2
167	0101 0100	2647.50	2685.6	-0.6	-0.1	15.8	2686.8	-1.2
168	0101 0011	2663.13	2699.8	0.4	0.4	14.2	2702.6	-2.9
169	0101 0010	2678.75	2713.6	-0.3	-0.4	13.8	2718.5	-4.8
170	0101 0001	2694.38	2735.0	0.5	0.6	21.4	2734.3	0.7
171	0101 0000	2710.00	2748.5	-0.7	-0.6	13.4	2750.2	-1.7
172	0100 1111	2725.63	2758.5	0.1	-0.0	10.0	2766.0	-7.5
173	0100 1110	2741.25	2770.1	0.5	0.6	11.6	2781.8	-11.8
174	0100 1101	2756.88	2795.4	-0.1	0.4	25.3	2797.7	-2.3
175	0100 1100	2772.50	2810.6	-0.1	-0.0	15.2	2813.5	-2.9
176	0100 1011	2788.13	2826.1	-0.6	-0.5	15.5	2829.4	-3.3
177	0100 1010	2803.75	2837.1	-0.3	-0.0	11.0	2845.2	-8.1
178	0100 1001	2819.38	2861.9	0.5	0.5	24.8	2861.1	0.9

ORIGINAL PAGE IS OF POOR QUALITY

1981/11/30 11:33:41 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] A/D THRESHOLD TEST <BAND= 1, SENSOR=14>

HAC TEST S27

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
184	0100 1000	2835.00	2871.5	-0.6	0.9	9.5	2876.9	-5.4
185	0100 0111	2850.63	2886.0	-0.5	-0.5	14.5	2897.8	-6.8
186	0100 0110	2866.25	2900.4	-0.0	-0.6	14.4	2908.6	-8.2
187	0100 0101	2881.88	2922.0	0.7	0.7	21.6	2924.4	-2.5
188	0100 0100	2897.50	2942.1	0.0	0.0	20.1	2940.3	1.8
189	0100 0011	2913.13	2953.3	-0.4	0.0	11.2	2956.1	-2.9
190	0100 0010	2928.75	2967.5	0.4	0.6	14.2	2972.0	-4.4
191	0100 0001	2944.38	2988.9	-0.1	-0.5	21.4	2987.8	1.1
192	0100 0000	2960.00	3002.9	0.0	0.2	14.0	3003.7	-0.7
193	0011 1111	2975.63	3014.4	0.0	0.4	11.4	3019.5	-5.1
194	0011 1110	2991.25	3025.5	-0.8	-0.8	11.1	3035.4	-9.9
195	0011 1101	3006.88	3052.3	-0.6	-0.7	26.9	3051.2	1.1
196	0011 1100	3022.50	3063.0	0.5	0.0	10.7	3067.1	-4.0
197	0011 1011	3038.13	3082.0	0.5	0.5	19.0	3082.9	-0.9
198	0011 1010	3053.75	3091.7	0.0	-0.1	9.6	3098.7	-7.1
199	0011 1001	3069.38	3119.1	-0.6	-0.6	27.4	3114.6	4.5
200	0011 1000	3085.00	3121.0	-0.0	-1.2	1.9	3130.4	-9.4
201	0011 0111	3100.63	3142.3	0.4	0.6	21.3	3146.3	-4.0
202	0011 0110	3116.25	3175.4	0.5	0.5	13.1	3162.1	-6.8
203	0011 0101	3131.88	3180.0	-0.7	-0.0	24.6	3178.0	2.0
204	0011 0100	3147.50	3193.9	0.0	0.0	14.0	3193.8	0.1
205	0011 0011	3163.13	3210.1	0.1	-0.1	16.2	3209.7	0.4
206	0011 0010	3178.75	3223.2	-0.4	-0.2	13.0	3225.5	-2.4
207	0011 0001	3194.38	3246.1	-0.1	-0.3	22.9	3241.4	4.7
208	0011 0000	3210.00	3257.7	-0.9	-0.7	11.6	3257.2	0.5
209	0010 1111	3225.63	3269.6	-0.8	-0.7	11.9	3273.0	-3.5

ORIGINAL PAGE IS OF POOR QUALITY

HS-2[illegible] THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 226
1981/11/30 11:33:41 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
[illegible] A/D THRESHOLD TEST (BAND= 1, SENSOR=14)

HAC TEST S27

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
210	0010 1110	3241.25	3280.0	0.7	-0.1	10.5	3288.9	-8.8
211	0010 1101	3256.88	3306.5	0.6	0.5	26.4	3304.7	1.7
212	0010 1100	3272.50	3320.3	1.6	0.2	13.8	3320.6	-0.3
213	0010 1011	3288.13	3337.3	-0.5	-0.5	17.0	3336.4	0.9
214	0010 1010	3303.75	3347.2	0.0	0.1	9.9	3352.3	-5.1
215	0010 1001	3319.38	3373.6	0.6	0.6	26.3	3368.1	5.5
216	0010 1000	3335.00	3378.9	1.6	1.6	5.3	3384.0	-5.0
217	0010 0111	3350.63	3397.8	-0.6	-0.0	18.9	3399.8	-2.0
218	0010 0110	3366.25	3411.6	-0.6	-0.6	13.7	3415.6	-4.1
219	0010 0101	3381.88	3435.0	-0.1	-0.8	23.4	3431.5	3.5
220	0010 0100	3397.50	3453.0	0.2	0.3	18.0	3447.3	5.7
221	0010 0011	3413.13	3465.3	-0.1	0.6	12.3	3463.2	2.1
222	0010 0010	3428.75	3479.5	0.3	0.2	14.2	3479.0	0.5
223	0010 0001	3444.38	3502.0	-0.4	-0.4	22.4	3494.9	7.1
224	0010 0000	3460.00	3509.9	-0.1	-0.1	7.9	3510.7	-0.8
225	0001 1111	3475.63	3524.0	0.5	0.6	14.1	3526.6	-2.6
226	0001 1110	3491.25	3533.9	-0.0	0.7	10.0	3542.4	-8.5
227	0001 1101	3506.88	3562.3	-0.7	-0.7	28.3	3558.3	4.0
228	0001 1100	3522.50	3574.2	-0.1	-1.1	12.0	3574.1	0.1
229	0001 1011	3538.13	3592.0	0.5	0.7	17.7	3589.9	2.0
230	0001 1010	3553.75	3601.3	-0.1	-0.1	9.3	3605.8	-4.5
231	0001 1001	3569.38	3629.7	-0.7	0.0	28.4	3621.6	8.1
232	0001 1000	3585.00	3634.4	-1.1	-1.0	4.6	3637.5	-3.1
233	0001 0111	3600.63	3653.5	0.1	-0.6	19.1	3653.3	0.2
234	0001 0110	3616.25	3665.6	0.4	0.4	12.1	3669.2	-3.6
235	0001 0101	3631.88	3690.2	-0.1	0.8	24.6	3685.0	5.2
236	0001 0100	3647.50	3705.7	-0.3	-0.1	15.5	3700.9	4.8

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 227

1981/11/30 11:33:41 FINALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] TO-BOSE [illegible] TEST <BAND= 1 , SENSOR=1.4>

HAC TEST S27

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO- 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
237	0001 0011	3663.13	3721.8	-0.7	-0.6	16.1	3716.7	5.1
238	0001 0010	3678.75	3734.0	-0.3	0.0	12.1	3732.6	1.4
239	0001 0001	3694.38	3757.7	0.4	0.6	23.7	3748.4	9.3
240	0001 0000	3710.00	3772.4	-0.0	0.5	14.7	3764.2	8.2
241	0000 1111	3725.63	3781.1	-0.4	-0.3	8.7	3780.1	1.0
242	0000 1110	3741.25	3792.0	-0.1	-1.1	10.9	3795.9	-3.9
243	0000 1101	3756.88	3818.4	0.5	0.8	26.4	3811.8	6.6
244	0000 1100	3772.50	3832.6	0.2	0.3	14.2	3827.6	5.0
245	0000 1011	3788.13	3849.5	-0.7	0.0	16.9	3843.5	6.0
246	0000 1010	3803.75	3859.4	0.1	0.1	9.9	3859.3	0.1
247	0000 1001	3819.38	3886.9	-0.2	-0.9	27.4	3875.2	11.7
248	0000 1000	3835.00	3894.6	1.0	1.0	7.7	3891.0	3.6
249	0000 0111	3850.63	3910.0	-0.1	0.6	15.4	3906.8	3.2
250	0000 0110	3866.25	3924.1	-0.8	-0.8	14.0	3922.7	1.4
251	0000 0101	3881.88	3948.2	-0.9	-0.8	24.1	3938.5	9.6
252	0000 0100	3897.50	3966.6	0.0	0.0	18.4	3954.4	12.2
253	0000 0011	3913.13	3978.6	0.5	0.6	12.0	3970.2	8.4
254	0000 0010	3928.75	3992.6	-0.0	0.0	14.0	3986.1	6.5
255	0000 0001	3944.38	4015.9	-1.0	-1.0	23.3	4001.9	14.0

ORIGINAL PAGE IS OF POOR QUALITY

1981/11/30 11:40:04 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible]

HAC TEST 527

NOV 30 '81

CHECK 1) RMS ERROR, 2) THRESHOLD INCREMENT(+/- 0.0 = THRH INC <= 31.2)
THE REMAINING DATA ARE FOR INFORMATION ONLY

[illegible] -35.9MV

DEVIATION OF SLOPE FROM IDEAL IS: 1.200%
OFFSET IS:-35.9MV
COEFFICIENT OF DETERMINATION IS: R**2= .99998060
ANALOG INPUT DURING DC RESTORE IS:64.4MV

[illegible]

[illegible]

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
29.1MV	179	15.890MV	1.1MV	200	6.107MV

[illegible]

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
7.2MV	151	-0.037MV	-1.4MV	3	.370MV

[illegible]

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
8.7MV	150	-0.040MV	-2.2MV	135	.356MV

TEST PASSED

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 229
1981/11/30 11:40:18 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.1.3.5-8 A/D THRESHOLD TEST (BAND= 1, SENSOR=15)

HAC TEST S27

ORIGINAL PAGE IS OF POOR QUALITY

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO- 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
THE FOLLOWING DATA ARE FOR INFORMATION ONLY								
1	1111 1111	-24.375	-25.6	-0.2	0.5		-20.0	-5.5
2	1111 1110	-8.750	-15.6	-0.0	0.1	10.0	-4.2	-11.4
3	1111 1101	6.875	11.9	-1.4	-1.0	27.5	11.6	0.3
4	1111 1100	22.500	23.7	-0.4	-0.4	11.8	27.4	-3.7
5	1111 1011	38.125	41.6	0.4	0.0	17.9	43.2	-1.6
6	1111 1010	53.750	54.2	0.1	0.1	12.6	59.0	-4.9
7	1111 1001	69.375	77.6	-0.4	0.0	23.4	74.8	2.7
8	1111 1000	85.000	83.0	-0.1	-0.2	5.4	90.6	-7.6
9	1111 0111	100.625	102.9	-0.1	-0.3	19.9	106.5	-3.5
10	1111 0110	116.250	114.4	0.2	0.2	11.5	122.3	-7.8
11	1111 0101	131.875	138.3	0.3	0.3	23.8	138.1	0.2
12	1111 0100	147.500	154.9	-0.5	0.0	16.6	153.9	1.0
13	1111 0011	163.125	169.9	-0.7	-0.6	15.0	169.7	0.2
14	1111 0010	178.750	184.9	0.1	-0.1	15.0	185.5	-0.6
15	1111 0001	194.375	205.4	0.3	0.3	20.5	201.3	4.0
16	1111 0000	210.000	215.0	-0.0	0.3	9.6	217.1	-2.2
17	1110 1111	225.625	230.2	-0.5	-0.5	15.3	233.0	-2.7
18	1110 1110	241.250	240.1	-0.2	-0.2	9.9	248.8	-8.6
19	1110 1101	256.875	265.7	0.3	-0.0	25.6	264.6	1.1
20	1110 1100	272.500	281.6	0.4	0.5	15.9	280.4	1.2
21	1110 1011	288.125	297.2	-0.5	0.0	15.6	296.2	1.0
22	1110 1010	303.750	310.1	-0.2	-0.2	12.9	312.0	-1.9
23	1110 1001	319.375	332.6	-0.0	-0.3	22.5	327.8	4.8
24	1110 1000	335.000	341.5	0.2	0.2	8.9	343.6	-2.1
25	1110 0111	350.625	357.6	0.3	0.3	16.1	359.5	-1.8

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 230
1981/11/30 11:40:18 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
[illegible] A/D THRESHOLD TEST (BAND= 1, SENSOR=15)

HAC TEST S27

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
26	1110 0110	366.250	370.1	-0.2	-0.0	12.4	375.3	-5.2
27	1110 0101	381.875	393.7	-0.6	-0.5	23.6	391.1	2.6
28	1110 0100	397.500	412.6	0.4	0.0	18.9	406.9	5.7
29	1110 0011	413.125	424,4	0.5	0.4	11.8	422.7	1.6
30	1110 0010	423.750	440.4	-0.1	0.2	16.0	438.5	1.9
31	1110 0001	444.375	460.6	-0.5	-0.4	20.2	454.3	6.2
32	1110 0000	460.000	465.1	-0.4	-0.3	4.5	470.1	-5.1
33	1101 1111	475.625	484.3	0.3	0.0	19.2	486.0	-1.7
34	1101 1110	491.250	493.6	0.1	0.2	9.3	501.8	-8.2
35	1101 1101	506.875	520.6	-0.6	-0.0	27.0	517.6	3.0
36	1101 1100	522.500	533.7	-0.6	-0.5	13.1	533.4	0.3
37	1101 1011	533.125	551.6	-0.1	-0.4	17.9	549.2	2.4
38	1101 1010	553.750	562.9	0.2	0.3	11.3	565.0	-2.2
39	1101 1001	569.375	586.6	0.3	0.3	23.7	580.8	5.8
40	1101 1000	585.000	595.2	-0.4	0.0	8.6	596.6	-1.4
41	1101 0111	600.625	612.2	-0.5	-0.4	17.0	612.5	-0.3
42	1101 0110	616.250	623.0	0.2	-0.0	10.8	628.3	-5.2
43	1101 0101	631.875	647.2	0.5	0.5	24.1	644.1	3.1
44	1101 0100	647.500	663.6	-0.1	0.5	16.4	659.9	3.7
45	1101 0011	663.125	678.9	-0.5	-0.5	15.3	675.7	3.2
46	1101 0010	678.750	693.3	-0.3	-0.3	14.3	691.5	1.8
47	1101 0001	694.375	713.7	0.4	0.0	20.4	707.3	6.3
48	1101 0000	710.000	727.3	0.4	0.4	13.6	723.2	4.2
49	1100 1111	725.625	738.7	-0.5	-0.0	11.4	739.0	-0.2
50	1100 1110	741.250	748.0	-0.2	-0.2	9.3	754.8	-6.8
51	1100 1101	756.875	774.4	-0.1	-0.3	26.4	770.6	3.8

ORIGINAL PAGE IS OF POOR QUALITY

1981/11/30 11:40:18 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5.7-8 A/D THRESHOLD TEST (BAND= 1, SENSOR=15)

HAC TEST S27 11/30/81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	TOTAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
52	1100 1100	772.500	790.0	0.1	0.1	15.6	786.4	3.6
53	1100 1011	788.125	804.8	0.4	0.4	14.8	802.2	2.6
54	1100 1010	803.750	817.5	-0.4	-0.0	12.7	818.0	-0.6
55	1100 1001	819.375	840.5	-0.6	-0.5	23.0	833.8	6.7
56	1100 1000	835.000	852.2	0.2	0.0	11.6	849.7	2.5
57	1100 0111	850.625	864.9	0.5	0.6	12.8	865.5	-0.5
58	1100 0110	866.250	876.6	-0.0	0.2	11.7	881.3	-4.6
59	1100 0101	881.875	900.9	-0.5	-0.5	24.2	897.1	3.8
60	1100 0100	897.500	920.3	-0.5	-0.5	19.5	912.9	7.4
61	1100 0011	913.125	931.3	0.2	-0.0	10.9	928.7	2.5
62	1100 0010	928.750	946.6	0.1	0.1	15.3	944.5	2.0
63	1100 0001	944.375	966.9	-0.4	0.0	20.3	960.3	6.5
64	1100 0000	960.000	980.2	-0.5	-0.5	13.3	976.2	4.0
65	1011 1111	975.625	994.5	-0.0	-0.5	14.3	992.0	2.6
66	1011 1110	991.250	1005.1	0.2	0.3	10.6	1007.8	-2.6
67	1011 1101	1006.88	1030.8	0.4	0.5	25.7	1023.6	7.2
68	1011 1100	1022.50	1042.0	-0.5	0.0	11.2	1039.4	2.6
69	1011 1011	1038.13	1061.2	-0.3	-0.4	19.2	1055.2	5.9
70	1011 1010	1053.75	1071.5	0.2	0.0	10.3	1071.0	0.4
71	1011 1001	1069.38	1095.4	0.4	0.4	23.9	1086.8	8.5
72	1011 1000	1085.00	1100.4	-0.0	0.3	5.0	1102.7	-2.2
73	1011 0111	1100.63	1120.9	0.0	-0.1	20.4	1118.5	2.4
74	1011 0110	1116.25	1131.3	-0.3	-0.3	10.5	1134.3	-2.9
75	1011 0101	1131.88	1155.7	0.3	-0.1	24.4	1150.1	5.6
76	1011 0100	1147.50	1172.4	0.4	0.6	16.7	1165.9	6.5
77	1011 0011	1163.13	1187.6	-0.3	-0.1	15.2	1181.7	5.9
78	1011 0010	1178.75	1201.5	0.0	-0.1	13.9	1197.5	4.0

ORIGINAL PAGE IS OF POOR QUALITY

HS-256 THEMATIC MAPPER MUX UNIT TEST MODEL .. FLT. S/N 3 PAGE 232
1981/11/30 11:40:18 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
[illegible] THRESHOLD TEST (BAND= 7 , SENSOR=15)

HAC TEST S27

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) NOMINAL	LEVELS RATIO 1 :1 LOWER	UPPER	INCREASE , FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
79	1011 0001	1194.38	1222.3	-0.0	-0.5	20.8	1213.3	9.0
80	1011 0000	1210.00	1234.4	0.4	0.4	12.1	1229.2	5.3
81	1010 1111	1225.63	1246.4	0.4	0.4	12.0	1245.0	1.5
[illegible]	1010 1110	1241.25	1258.1	-0.1	0.0	11.6	1260.8	-2.7
83	1010 1101	1256.88	1283.6	-0.4	-2.0	25.5	1276.6	7.0
84	1010 1100	1272.50	1296.9	0.4	0.0	13.3	1292.4	4.5
85	1010 1011	1288.13	1313.0	0.4	0.5	16.0	1308.2	4.8
[illegible]	1010 1010	1303.75	1324.6	0.0	0.4	11.6	1324.0	0.6
87	1010 1001	1319.38	1347.9	-0.4	-0.3	23.2	1339.8	8.0
88	1010 1000	1335.00	1356.4	-0.3	-0.3	8.5	1355.7	0.8
89	1010 0111	1350.63	1372.8	0.3	-0.0	16.4	1371.5	1.3
90	1010 0110	1366.25	1383.3	0.5	0.4	10.4	1387.3	-4.0
91	1010 0101	1381.88	1408.2	-0.4	-0.1	24.9	1403.1	5.1
92	1010 0100	1397.50	1426.7	-0.5	-0.4	18.5	1418.9	7.8
93	1010 0011	1413.13	1439.5	0.0	-0.2	12.8	1434.7	4.8
94	1010 0010	1428.75	1453.8	0.2	0.3	14.2	1450.5	3.2
95	1010 0001	1444.38	1473.8	0.2	0.1	20.1	1466.3	7.5
96	1010 0000	1460.00	1482.7	-0.3	-0.1	8.9	1482.2	0.5
97	1001 1111	1475.63	1498.1	-0.1	-0.2	15.4	1498.0	0.1
98	1001 1110	1491.25	1508.1	0.6	0.0	10.0	1513.8	-5.7
99	1001 1101	1506.88	1534.4	0.6	0.6	26.3	1529.6	4.8
100	1001 1100	1522.50	1545.4	0.0	0.4	10.9	1545.4	-0.0
101	1001 1011	1538.13	1564.4	0.0	-0.1	19.0	1561.2	3.2
102	1001 1010	1553.75	1574.8	-0.1	-0.1	10.4	1577.0	-2.2
103	1001 1001	1569.38	1598.9	0.7	0.0	24.1	1592.8	6.1
104	1001 1000	1585.00	1607.0	-0.0	0.0	8.1	1608.7	-1.6

ORIGINAL PAGE IS OF POOR QUALITY

HS 236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 233
1981/11/30 11:40:18 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.3.5-8 A/D THRESHOLD TEST (BAND= 1, SENSOR=15)

HAS TEST 527

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO- 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
105	1001 0111	1600.63	1624.7	-0.5	0.0	17.7	1624.5	0.3
106	1001 0110	1616.25	1634.4	-0.1	-0.1	9.6	1640.3	-5.9
107	1001 0101	1631.88	1659.7	-0.0	-0.3	25.3	1656.1	3.6
108	1001 0100	1647.50	1676.3	0.3	0.4	16.6	1671.9	4.4
109	1001 0011	1663.13	1690.7	0.5	0.6	14.4	1687.7	3.0
110	1001 0010	1678.75	1704.9	-0.2	0.0	14.1	1703.5	1.3
111	1001 0001	1694.38	1725.6	-0.4	0.2	20.7	1719.3	6.3
112	1001 0000	1710.00	1741.6	0.5	0.0	16.0	1735.2	6.4
113	1000 1111	1725.63	1749.9	0.0	0.0	8.4	1751.0	-1.0
114	1000 1110	1741.25	1758.3	-0.0	0.1	8.4	1766.8	-8.5
115	1000 1101	1756.88	1786.9	-0.5	-0.5	28.6	1782.6	4.3
116	1000 1100	1772.50	1800.6	-0.4	-0.3	13.6	1798.4	2.2
117	1000 1011	1788.13	1816.3	0.3	-0.0	15.7	1814.2	2.1
118	1000 1010	1803.75	1827.8	0.2	0.1	11.5	1830.0	-2.2
119	1000 1001	1819.38	1851.5	-0.6	-0.1	23.7	1845.8	5.7
120	1000 1000	1835.00	1863.0	-0.0	0.0	11.4	1861.7	1.3
121	1000 0111	1850.63	1876.3	0.1	-0.2	13.3	1877.5	-1.2
122	1000 0110	1866.25	1886.3	0.0	0.1	10.0	1893.3	-6.9
123	1000 0101	1881.88	1911.4	1.1	0.2	25.1	1909.1	2.3
124	1000 0100	1897.50	1930.0	-0.4	0.0	18.6	1924.9	5.1
125	1000 0011	1913.13	1942.8	-0.3	-0.3	12.8	1940.7	2.1
126	1000 0010	1928.75	1957.1	0.3	-0.1	14.2	1956.5	0.5
127	1000 0001	1944.38	1977.0	0.4	0.3	19.9	1972.3	4.7
128	1000 0000	1960.00	1986.1	-0.0	0.1	9.1	1988.2	-2.0
129	0111 1111	1975.63	1999.8	-0.3	-0.5	13.7	2004.0	-4.2
130	0111 1110	1991.25	2011.1	-0.2	-0.2	11.3	2019.8	-8.7

ORIGINAL PAGE IS
OF POOR QUALITY

1981/11/30 11:40:18 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] A/D TRANSFER FUNCTION TEST (BAND= 4 , SENSOR=15)

TEST 527

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO: 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
131	0111 1101	2006.88	2036.2	0.3	-0.0	25.1	2035.6	0.6
132	0111 1100	2022.50	2048.6	0.0	-0.2	12.3	2051.4	-2.8
133	0111 1011	2038.13	2066.8	-0.4	0.0	18.3	2067.2	-0.4
134	0111 1010	2053.75	2077.9	-0.1	-0.2	11.0	2083.0	-5.1
135	0111 1001	2069.38	2102.7	-0.1	-0.2	24.8	2098.8	3.8
136	0111 1000	2085.00	2105.1	-0.0	-0.0	2.5	2114.7	-9.6
137	0111 0111	2100.63	2126.4	0.4	0.1	21.3	2130.5	-4.0
138	0111 0110	2116.25	2136.4	-0.1	0.0	10.0	2146.3	-9.8
139	0111 0101	2131.88	2163.0	-0.4	-0.4	26.6	2162.1	0.9
140	0111 0100	2147.50	2179.3	0.2	-0.0	16.3	2177.9	1.4
141	0111 0011	2163.13	2193.0	0.2	0.1	13.7	2193.7	-0.7
142	0111 0010	2178.75	2208.1	-0.0	0.1	15.1	2209.5	-1.4
143	0111 0001	2194.38	2227.8	-0.2	-0.4	19.7	2225.3	2.4
144	0111 0000	2210.00	2237.9	-0.6	-0.6	10.1	2241.2	-3.2
145	0110 1111	2225.63	2251.9	0.2	-0.0	13.9	2257.0	-5.1
146	0110 1110	2241.25	2260.4	-0.0	0.0	8.5	2272.8	-12.4
147	0110 1101	2256.88	2288.7	-0.1	0.0	28.3	2288.6	0.1
148	0110 1100	2272.50	2304.0	-0.4	-0.3	15.3	2304.4	-0.4
149	0110 1011	2288.13	2318.9	-0.0	-0.3	14.9	2320.2	-1.3
150	0110 1010	2303.75	2330.9	0.0	0.7	11.9	2336.0	-5.2
151	0110 1001	2319.38	2352.7	0.2	0.3	21.8	2351.8	0.8
152	0110 1000	2335.00	2361.2	-0.1	0.0	8.6	2367.7	-6.4
153	0110 0111	2350.63	2378.9	-0.4	-0.4	17.7	2383.5	-4.5
154	0110 0110	2366.25	2388.7	0.1	-0.1	9.8	2399.3	-10.5
155	0110 0101	2381.88	2414.8	0.3	0.3	26.0	2415.1	-0.3
156	0110 0100	2397.50	2432.7	0.0	0.3	17.9	2430.9	1.8
157	0110 0011	2413.13	2445.4	-0.4	-0.4	12.7	2446.7	-1.3

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 235

1981/11/30 11:40:18 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 1, SENSOR=15)

HAC TEST S27

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
158	0110 0010	2428.75	2461.5	-0.3	-0.3	16.1	2462.5	-1.1
159	0110 0001	2444.38	2479.8	0.1	0.1	18.3	2478.3	1.4
160	0110 0000	2460.00	2485.4	0.1	0.0	5.7	2494.2	-8.7
161	0101 1111	2475.63	2503.6	-0.1	0.0	18.1	2510.0	-6.4
162	0101 1110	2491.25	2514.3	-0.1	-0.1	10.7	2525.8	-11.4
163	0101 1101	2506.88	2540.7	-0.1	-0.3	26.3	254	-0.9
164	0101 1100	2522.50	2552.5	0.3	0.3	11.8	2557.4	-4.9
165	0101 1011	2538.13	2570.6	0.2	0.2	18.1	2573.2	-2.6
166	0101 1010	2553.75	2581.3	-0.3	-0.2	10.7	2589.0	-7.8
167	0101 1001	2569.38	2607.0	-0.4	-0.3	25.7	2604.8	2.2
168	0101 1000	2585.00	2612.0	0.0	-0.0	5.0	2620.7	-8.6
169	0101 0111	2600.63	2630.5	0.1	0.1	18.4	2636.5	-6.0
170	0101 0110	2616.25	2639.6	-0.1	0.0	9.2	2652.3	-12.6
171	0101 0101	2631.88	2666.9	-0.1	-0.1	27.3	2668.1	-1.2
172	0101 0100	2647.50	2683.9	-0.4	-0.4	17.0	2683.9	0.0
173	0101 0011	2663.13	2697.2	0.1	0.0	13.2	2699.7	-2.6
174	0101 0010	2678.75	2711.9	0.0	-0.0	14.7	2715.5	-3.7
175	0101 0001	2694.38	2733.3	-0.8	0.0	21.4	2731.3	1.9
176	0101 0000	2710.00	2745.6	-0.2	-0.1	12.3	2747.2	-1.5
177	0100 1111	2725.63	2756.1	-0.0	-0.4	10.5	2763.0	-6.9
178	0100 1110	2741.25	2763.7	0.1	0.1	7.6	2778.8	-15.1
179	0100 1101	2756.88	2792.8	0.0	0.0	29.1	2794.6	-1.8
180	0100 1100	2772.50	2808.5	-0.4	0.0	15.7	2810.4	-1.9
181	0100 1011	2788.13	2822.9	-0.1	-0.0	14.4	2826.2	-3.3
182	0100 1010	2803.75	2835.1	0.1	-0.1	12.1	2842.0	-7.0
183	0100 1001	2819.38	2859.1	0.3	0.3	24.0	2857.8	1.3

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 236

1981/11/30 11:40:18 SERIALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] A/D THRESHOLD TEST (BAND= [illegible] SENSOR=15)

HAC TEST S27

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
184	0100 1000	2835.00	2868.3	-0.1	0.1	9.2	2873.7	-5.4
185	0100 0111	2850.63	2883.1	-0.4	-0.4	14.8	2889.5	-6.4
186	0100 0110	2866.25	2892.6	-0.2	-0.2	9.5	2905.3	-12.7
187	0100 0101	2881.88	2919.0	0.5	[illegible].0	26.5	2921.1	-2.1
188	0100 0100	2897.50	2937.1	0.5	0.6	18.0	2936.9	0.2
189	0100 0011	2913.13	2949.8	-0.3	0.0	12.7	2952.7	-2.9
190	0100 0010	2928.75	2965.4	-0.0	-0.0	15.5	2968.5	-3.1
191	0100 0001	2944.38	2985.6	-0.1	-0.1	20.2	2984.3	1.3
192	0100 0000	2960.00	3000.0	0.3	0.4	14.3	3000.2	-0.2
193	0011 1111	2975.63	3011.3	0.2	0.3	11.4	3016.0	-4.6
194	0011 1110	2991.25	3021.8	-0.2	-0.0	10.5	3031.8	-10.0
195	0011 1101	3006.88	3048.7	-0.2	-0.1	26.9	3047.6	1.2
196	0011 1100	3022.50	3059.3	1.6	-0.0	10.6	3063.4	-4.1
197	0011 1011	3038.13	3079.2	-0.1	0.0	19.8	3079.2	-0.0
198	0011 1010	3053.75	3088.8	0.0	0.1	9.7	3095.0	-6.2
199	0011 1001	3069.38	3115.5	-0.3	-0.3	26.6	3110.8	4.6
200	0011 1000	3085.00	3116.6	-0.1	-0.1	1.1	3126.7	-10.0
201	0011 0111	3100.63	3139.0	0.1	0.0	22.4	3142.5	-3.5
202	0011 0110	3116.25	3148.1	-0.2	0.1	9.1	3158.3	-10.2
203	0011 0101	3131.88	3176.0	-0.4	-0.0	27.9	3174.1	1.9
204	0011 0100	3147.50	3191.6	-0.4	-0.4	15.6	3189.9	1.7
205	0011 0011	3163.13	3206.2	0.0	0.0	14.6	3205.7	0.5
206	0011 0010	3178.75	3220.2	0.1	0.2	14.0	3221.5	-1.4
207	0011 0001	3194.38	3242.4	0.0	0.0	22.2	3237.3	5.1
208	0011 0000	3210.00	3253.8	-0.1	-0.0	11.4	3253.2	0.6
209	0010 1111	3225.63	3265.6	-0.2	-0.2	11.8	3269.0	-3.4

ORIGINAL PAGE IS OF POOR QUALITY

HS-276 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 237

1981/11/30 11:40:18 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

T-4-T-4-T--F8 A/D THRESHOLD TEST (BAND= 1, SENSOR=1.5)

HAC TEST 127

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
210	0010 1110	3241.25	3276.3	0.1	0.0	10.7	3284.8	-8.5
211	0010 1101	3256.88	3302.7	0.3	0.3	26.4	3300.6	2.1
212	0010 1100	3272.50	3316.8	-0.1	0.4	14.1	3316.4	0.4
213	0010 1011	3288.13	3333.3	-0.0	-0.0	16.5	3332.2	1.0
214	0010 1010	3303.75	3344.6	-0.2	-0.1	11.3	3348.0	-3.4
215	0010 1001	3319.38	3369.6	0.0	-0.0	25.0	3363.8	5.7
216	0010 1000	3335.00	3375.0	-0.1	-0.2	5.4	3379.7	-4.7
217	0010 0111	3350.63	3393.8	-0.4	-0.0	18.8	3395.5	-1.7
218	0010 0110	3366.25	3402.9	-0.0	0.0	9.0	3411.3	-8.4
219	0010 0101	3381.88	3430.6	-0.5	-0.5	27.7	3427.1	3.5
220	0010 0100	3397.50	3449.6	0.3	0.3	18.9	3442.9	6.6
221	0010 0011	3413.13	3461.0	0.3	0.2	11.5	3458.7	2.3
222	0010 0010	3428.75	3476.5	-0.1	-0.0	15.4	3474.5	1.9
223	0010 0001	3444.38	3497.6	-0.9	-0.6	21.1	3490.3	7.2
224	0010 0000	3460.00	3505.4	0.2	-0.7	7.8	3506.2	-0.8
225	0001 1111	3475.63	3519.9	0.0	0.0	14.5	3522.0	-2.1
226	0001 1110	3491.25	3529.6	-0.1	0.0	9.7	3537.8	-8.2
227	0001 1101	3506.88	3557.7	-0.8	-0.8	28.1	3553.6	4.1
228	0001 1100	3522.50	3568.7	-0.4	-0.4	11.0	3569.4	-0.7
229	0001 1011	3538.13	3587.8	0.1	-0.2	19.1	3585.2	2.6
230	0001 1010	3553.75	3597.5	-0.1	-0.2	9.7	3601.0	-3.5
231	0001 1001	3569.38	3624.9	-0.1	-0.1	27.3	3616.8	8.0
232	0001 1000	3585.00	3629.2	0.1	0.1	4.3	3632.7	-3.5
233	0001 0111	3600.63	3648.7	-0.2	-0.2	19.5	3648.5	0.2
234	0001 0110	3616.25	3657.2	-0.2	0.0	8.5	3664.3	-7.1
235	0001 0101	3631.88	3685.7	0.1	0.3	28.5	3680.1	5.6
236	0001 0100	3647.50	3701.9	-0.4	0.1	16.1	3695.9	5.9

ORIGINAL PAGE IS OF POOR QUALITY

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO NOMINAL	LOWER	1 :1 UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
237	0001 0011	3663.13	3716.5	0.0	0.0	14.6	3711.7	4.8
238	0001 0010	3678.75	3730.2	0.4	0.0	13.7	3727.5	2.6
239	0001 0001	3694.38	3752.8	0.2	0.6	22.7	3743.3	9.5
240	0001 0000	3710.00	3767.9	0.0	0.0	15.1	3759.2	8.8
241	0000 1111	3725.63	3776.3	-0.3	-0.3	8.3	3775.0	1.3
242	0000 1110	3741.25	3786.6	-0.2	-0.1	10.3	3790.8	-4.2
243	0000 1101	3756.88	3813.8	-0.1	0.0	27.2	3806.6	7.2
244	0000 1100	3772.50	3828.4	0.0	0.0	14.6	3822.4	6.0
245	0000 1011	3788.13	3844.5	-0.4	0.0	16.1	3838.2	6.2
246	0000 1010	3803.75	3855.4	0.0	-0.0	11.0	3854.0	1.4
247	0000 1001	3819.38	3881.4	-0.1	-0.1	26.0	3869.8	11.6
248	0000 1000	3835.00	3890.7	-0.1	0.1	9.2	3885.7	5.0
249	0000 0111	3850.63	3905.0	0.0	0.2	14.3	3901.5	3.5
250	0000 0110	3866.25	3914.1	0.0	0.0	9.1	3917.3	-3.2
251	0000 0101	3881.88	3942.3	-0.0	-0.0	28.2	3933.1	9.2
252	0000 0100	3897.50	3959.6	0.7	0.0	17.2	3948.9	10.7
253	0000 0011	3913.13	3973.6	0.0	0.1	14.0	3964.7	8.9
254	0000 0010	3928.75	3988.7	-0.3	0.0	15.1	3980.5	8.1
255	0000 0001	3944.38	4010.4	-0.5	-0.4	21.7	3996.3	14.1

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 239
1981/11/30 11:46:41 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
[illegible] A/D THRESHOLD TEST (BAND= 1, SENSOR=16)
S U M M A R Y

CHECK 1) RMS ERROR, 2) THRESHOLD INCREMENT(+/- 0.0 <= THRH INC <= 31.2)
THE REMAINING DATA ARE FOR INFORMATION ONLY

BEST FIT STRAIGHT LINE IS: Y =15.822X -37.8MV

DEVIATION OF SLOPE FROM IDEAL IS: 1.264%
OFFSET IS:-37.8MV
COEFFICIENT OF DETERMINATION IS: R**2= .99998290
ANALOG INPUT DURING DC RESTORE IS:64.5MV

RMS ERROR - 4.760MV REQMT: RMS ERROR <=7.812MV

THRESHOLD INCREMENT MEASUREMENT

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
27.7MV	227	15.897MV	1.2MV	200	5.452MV

LOWER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
1.5MV	244	-0.046MV	-1.5MV	148	.314MV

UPPER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
1.4MV	245	-0.031MV	-1.6MV	148	.299MV

TEST PASSED

ORIGINAL PAGE IS
OF POOR QUALITY

HAC TEST S27

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO- 1:1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
THE FOLLOWING DATA ARE FOR INFORMATION ONLY								
1	1111 1111	-24.375	-28.9	-0.6	-0.1		-22.0	-6.9
2	1111 1110	-8.750	-16.2	0.1	0.0	12.7	-6.2	-10.1
3	1111 1101	6.875	7.7	-0.0	0.0	23.9	9.6	-1.9
4	1111 1100	22.500	21.2	-0.3	-0.1	13.5	25.5	4.3
5	1111 1011	38.125	38.4	-0.3	0.0	17.3	41.3	-2.8
6	1111 1010	53.750	51.2	-0.0	-0.0	12.8	57.1	-5.9
7	1111 1001	69.375	74.3	-0.1	-0.3	23.0	72.9	1.3
8	1111 1000	85.000	80.2	0.1	0.1	6.0	88.7	-8.5
9	1111 0111	100.625	99.3	0.2	0.3	19.0	104.6	-5.3
10	1111 0110	116.250	114.6	-0.3	-0.2	15.3	120.4	-5.8
11	1111 0101	131.875	135.2	-0.3	-0.3	20.6	136.2	-1.0
12	1111 0100	147.500	152.8	-0.0	-0.0	17.6	152.0	0.7
13	1111 0011	163.125	166.3	0.1	0.2	13.5	167.9	-1.6
14	1111 0010	178.750	182.6	-0.1	-0.1	16.3	183.7	-1.1
15	1111 0001	194.375	202.3	-0.3	-0.2	19.7	199.5	2.8
16	1111 0000	210.000	212.9	0.3	0.2	10.6	215.3	-2.4
17	1110 1111	225.625	226.7	0.2	0.2	13.8	231.2	-4.4
18	1110 1110	241.250	240.2	-0.1	0.0	13.5	247.0	-6.8
19	1110 1101	256.875	262.9	0.4	-0.1	22.7	262.8	0.1
20	1110 1100	272.500	279.4	0.1	0.0	16.5	278.6	0.8
21	1110 1011	288.125	294.2	-0.1	-0.3	14.7	294.4	-0.2
22	1110 1010	303.750	307.7	-0.0	-0.0	13.5	310.3	-2.6
23	1110 1001	319.375	329.6	0.2	0.3	21.9	326.1	3.5
24	1110 1000	335.000	341.8	-1.4	-0.2	12.3	341.9	-0.1
25	1110 0111	350.625	355.2	-0.5	-0.5	13.3	357.7	-2.6

ORIGINAL PAGE IS OF POOR QUALITY

1981/11/30 11:46:54 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] ON TO-HFES-18-BCH ID TEST CONDITION= 1 , SENSOR=1 &

PCC TEST S27 80/30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
26	1110 0110	366.250	370.1	0.2	0.1	15.0	373.6	-3.4
27	1110 0101	381.875	390.5	0.1	0.1	20.3	389.4	1.1
28	1110 0100	397.500	411.8	-0.1	0.0	21.3	405.2	6.6
29	1110 0011	413.125	422.0	-0.3	-0.3	10.2	421.0	1.0
30	1110 0010	428.750	438.5	-0.0	-0.1	16.5	436.8	1.7
31	1110 0001	444.375	457.5	0.1	0.2	19.0	452.7	4.9
32	1110 0000	460.000	462.7	0.2	0.2	5.2	468.5	-5.8
33	1101 1111	475.625	481.8	-0.3	-0.0	19.1	484.3	-2.5
34	1101 1110	491.250	494.0	-0.0	-0.0	12.1	500.1	-6.2
35	1101 1101	506.875	518.7	-0.2	-0.3	24.7	516.0	2.7
36	1101 1100	522.500	531.4	-0.1	0.0	12.7	531.8	-0.4
37	1101 1011	538.125	548.8	0.2	0.3	17.4	547.6	1.2
38	1101 1010	553.750	560.8	0.0	0.1	12.0	563.4	-2.6
39	1101 1001	569.375	584.5	-0.4	-0.4	23.7	579.2	5.2
40	1101 1000	585.000	592.8	0.2	-0.0	8.3	595.1	-2.3
41	1101 0111	600.625	609.5	0.2	0.3	16.7	610.9	-1.4
42	1101 0110	616.250	624.4	-0.1	-0.1	14.9	626.7	-2.3
43	1101 0101	631.875	645.2	-0.1	-0.1	20.8	642.5	2.7
44	1101 0100	647.500	663.2	-0.1	-0.0	18.0	658.4	4.9
45	1101 0011	663.125	676.4	0.2	0.2	13.1	674.2	2.2
46	1101 0010	678.750	691.6	-0.0	0.0	15.2	690.0	1.6
47	1101 0001	694.375	712.1	-0.3	-0.0	20.5	705.8	6.3
48	1101 0000	710.000	726.4	0.2	0.2	14.3	721.6	4.8
49	1100 1111	725.625	736.4	-0.1	-0.2	9.9	737.5	-1.1
50	1100 1110	741.250	749.0	-0.0	-0.0	12.7	753.3	-4.2
51	1100 1101	756.875	772.7	0.1	-0.2	23.6	769.1	3.6

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	MEAN VALUE (MV)	ANALOG INPUT VOLTAGE (MV) NOMINAL	LIMITS RATIO LOWER	LIMITS RATIO UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	BEST FIT STRAIGHT LINE DEVIATION
52	1100 1100	772.500	788.8	-0.0	0.0	16.1	784.9	3.9
53	1100 1011	788.125	803.2	-0.3	-0.3	14.4	800.8	2.4
54	1100 1010	803.750	815.9	-0.1	-0.1	12.7	816.6	-0.7
55	1100 1001	819.375	838.8	-0.6	-0.0	22.9	832.4	6.4
56	1100 1000	835.000	851.3	0.0	-0.0	12.5	848.2	3.1
57	1100 0111	850.625	863.5	-0.6	-0.4	12.2	864.1	-0.5
58	1100 0110	866.250	878.7	-0.1	-0.2	15.1	879.9	-1.2
59	1100 0101	881.875	898.4	0.3	0.3	19.7	895.7	2.7
60	1100 0100	897.500	920.2	-0.1	-0.1	21.8	911.5	8.7
61	1100 0011	913.125	929.9	-0.4	-0.0	9.7	927.3	2.6
62	1100 0010	928.750	945.6	-0.1	-0.1	15.7	943.2	2.4
63	1100 0001	944.375	965.3	-0.1	-0.4	19.7	959.0	6.3
64	1100 0000	960.000	978.5	-0.3	-0.3	13.2	974.8	3.7
65	1011 1111	975.625	992.5	0.3	0.3	14.0	990.6	1.9
66	1011 1110	991.250	1003.9	0.0	0.0	11.4	1006.5	-2.5
67	1011 1101	1006.88	1029.1	-0.2	-0.3	25.2	1022.3	6.9
68	1011 1100	1022.50	1041.4	0.1	-0.0	12.2	1038.1	3.3
69	1011 1011	1038.13	1059.4	0.3	0.2	18.0	1053.9	5.5
70	1011 1010	1053.75	1070.4	-0.1	-0.3	11.0	1069.7	0.6
71	1011 1001	1069.38	1094.1	0.3	0.3	23.8	1085.6	8.6
72	1011 1000	1085.00	1099.3	-0.2	-0.3	5.2	1101.4	-2.1
73	1011 0111	1100.63	1119.5	0.3	0.3	20.2	1117.2	2.3
74	1011 0110	1116.25	1133.3	0.2	-0.0	13.8	1133.0	0.3
75	1011 0101	1131.88	1154.4	0.8	1.3	21.1	1148.9	5.5
76	1011 0100	1147.50	1171.3	-0.1	-0.1	16.9	1165.7	5.7
77	1011 0011	1163.13	1186.4	0.0	-0.3	15.0	1180.5	5.9
78	1011 0010	1178.75	1200.1	-0.0	-0.1	13.7	1196.3	3.8

ORIGINAL PAGE IS OF POOR QUALITY

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) NOMINAL	LEVELS RATIO 1:1 LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
79	1011 0001	1194.38	1220.8	0.3	0.3	20.7	1217.1	8.6
80	1011 0000	1210.00	1233.6	0.1	0.0	12.8	1228.0	5.7
81	1010 1111	1225.63	1245.3	-0.4	-0.4	11.7	1243.8	1.6
82	1010 1110	1241.25	1257.1	-0.1	-0.1	11.8	1259.6	-2.5
83	1010 1101	1256.88	1281.5	0.2	0.2	24.3	1275.4	6.0
84	1010 1100	1272.50	1296.2	-0.1	0.0	14.7	1291.3	4.9
85	1010 1011	1288.13	1312.1	-0.5	-0.4	15.9	1307.1	5.0
86	1010 1010	1303.75	1323.3	0.2	0.2	11.2	1322.9	0.4
87	1010 1001	1319.38	1346.0	0.3	0.3	22.7	1338.7	7.3
88	1010 1000	1335.00	1355.8	0.1	0.1	9.7	1354.5	1.2
89	1010 0111	1350.63	1372.0	-0.3	0.0	16.2	1370.4	1.6
90	1010 0110	1366.25	1386.2	0.0	0.0	14.2	1386.2	-0.0
91	1010 0101	1381.88	1407.9	-0.4	-0.4	21.8	1402.0	5.9
92	1010 0100	1397.50	1427.0	-0.1	0.0	19.1	1417.8	9.2
93	1010 0011	1413.13	1438.1	0.3	0.3	11.1	1433.7	4.5
94	1010 0010	1428.75	1453.3	0.1	0.2	15.2	1449.5	3.8
95	1010 0001	1444.38	1473.1	-0.4	-0.4	19.8	1465.3	7.8
96	1010 0000	1460.00	1481.7	0.1	-0.0	8.6	1481.1	0.6
97	1001 1111	1475.63	1496.6	0.2	0.2	14.8	1497.0	-0.4
98	1001 1110	1491.25	1507.6	-0.1	-0.3	11.0	1512.8	-5.2
99	1001 1101	1506.88	1533.2	-0.3	-1.0	25.6	1528.6	4.6
100	1001 1100	1522.50	1544.6	0.0	0.0	11.4	1544.4	0.2
101	1001 1011	1538.13	1563.3	0.3	0.3	18.7	1560.2	3.1
102	1001 1010	1553.75	1573.5	-0.2	-0.1	10.2	1576.1	-2.6
103	1001 1001	1569.38	1598.0	-0.2	0.0	24.4	1591.9	6.1
104	1001 1000	1585.00	1605.9	-0.2	-0.3	8.0	1607.7	-1.8

ORIGINAL PAGE IS OF POOR QUALITY

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
101	1001 0111	1600.63	1623.5	0.0	-0.4	17.6	1623.5	-0.0
102	1001 0110	1616.25	1636.7	0.0	-0.2	13.1	1639.4	-2.7
103	1001 0101	1631.88	1659.3	0.1	0.1	22.7	1655.2	4.2
104	1001 0100	1647.50	1675.3	0.0	-0.1	15.9	1671.0	4.3
105	1001 0011	1663.13	1690.0	-0.4	-0.4	14.7	1686.8	3.2
106	1001 0010	1678.75	1703.5	-0.3	-0.1	13.4	1702.6	0.9
107	1001 0001	1694.38	1724.2	0.4	0.4	20.7	1718.5	5.7
108	1001 0000	1710.00	1741.5	-0.0	-0.3	17.3	1734.3	7.2
109	1000 1111	1725.63	1748.9	-0.3	-0.3	7.4	1750.1	-1.2
110	1000 1110	1741.25	1760.1	0.1	0.0	11.2	1765.9	-5.8
111	1000 1101	1756.88	1785.0	0.3	0.2	24.9	1781.8	3.2
112	1000 1100	1772.50	1800.0	-0.2	-0.3	15.0	1797.6	2.4
113	1000 1011	1788.13	1815.6	-0.3	0.0	15.6	1813.4	2.2
114	1000 1010	1803.75	1826.[illegible]	0.2	0.2	10.8	1829.2	-2.8
115	1000 1001	1819.38	1850.0	-0.1	-0.3	23.5	1845.0	4.9
116	1000 1000	1835.00	1862.3	0.0	-0.1	12.3	1850.9	1.4
117	1000 0111	1850.63	1875.1	0.0	0.2	12.8	1876.7	-1.6
118	1000 0110	1866.25	1889.0	0.0	0.1	13.9	1892.5	-3.5
119	1000 0101	1881.88	1911.3	-0.3	-0.2	22.3	1908.3	3.0
120	1000 0100	1897.50	1930.7	0.0	-0.0	19.3	1924.2	6.5
121	1000 0011	1913.13	1941.6	0.2	0.1	10.9	1940.0	1.6
122	1000 0010	1928.75	1956.6	-0.1	-0.3	15.0	1955.8	0.8
123	1000 0001	1944.38	1976.4	-0.4	-0.4	19.7	1971.6	4.7
124	1000 0000	1960.00	1986.1	0.7	0.7	9.7	1987.4	-1.3
125	0111 1111	1975.63	2002.5	0.0	-0.0	16.4	2003.3	-0.7
126	0111 1110	1991.25	2010.0	-0.2	-0.1	7.5	2019.1	-9.1

ORIGINAL PAGE IS OF POOR QUALITY

3.5.3.5-13 A/D THRESHOLD TEST (BAND= 1, SENSOR=16)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
131	0111 1101	2006.88	2034.9	-0.3	-0.1	24.9	2034.9	0.0
132	0111 1100	2022.50	2048.3	-0.0	-0.0	13.4	2050.7	-2.4
133	0111 1011	2038.13	2065.9	-0.1	-0.1	17.5	2066.6	-0.7
134	0111 1010	2053.75	2076.7	-0.1	-0.3	10.9	2082.4	-5.7
135	0111 1001	2069.38	2101.1	0.0	0.0	24.4	2098.2	2.9
136	0111 1000	2085.00	2104.1	-0.3	-0.3	2.9	2114.0	-10.0
137	0111 0111	2130.63	2126.0	-0.3	-0.5	21.9	2129.8	-3.9
138	0111 0110	2116.25	2139.5	-0.2	-0.1	13.5	2145.7	-6.2
139	0111 0101	2131.88	2161.2	0.1	0.1	21.7	2161.5	-0.3
140	0111 0100	2147.50	2177.7	0.0	0.6	16.4	2177.3	0.4
141	0111 0011	2163.13	2192.0	-0.0	-0.1	14.3	2193.1	-1.1
142	0111 0010	2178.75	2206.6	0.3	0.1	14.6	2209.0	-2.3
143	0111 0001	2194.38	2227.5	0.2	0.2	20.8	2224.8	2.7
144	0111 0000	2210.00	2237.0	-0.1	-0.2	9.5	2240.6	-3.6
145	0110 1111	2225.63	2251.3	0.8	0.0	14.2	2256.4	-5.2
146	0110 1110	2241.25	2262.9	0.1	0.1	11.7	2272.3	-9.3
147	0110 1101	2256.88	2287.4	-0.0	-0.3	24.5	2288.1	-0.6
148	0110 1100	2272.50	2304.5	-1.5	-1.6	17.1	2303.9	0.6
149	0110 1011	2288.13	2318.1	0.0	0.1	13.5	2319.7	-1.7
150	0110 1010	2303.75	2329.9	0.1	0.2	11.8	2335.5	-5.7
151	0110 1001	2319.38	2353.7	-0.5	-0.4	23.8	2351.4	2.3
152	0110 1000	2335.00	2360.7	-0.1	-0.0	7.0	2367.2	-6.5
153	0110 0111	2350.63	2378.0	0.1	0.2	17.2	2383.0	-5.0
154	0110 0110	2366.25	2392.5	0.0	-0.4	14.5	2398.8	-6.4
155	0110 0101	2381.88	2413.7	-0.1	-0.3	21.3	2414.7	-0.9
156	0110 0100	2397.50	2434.0	-0.0	-0.0	20.2	2430.5	3.5
157	0110 0011	2413.13	2443.9	0.0	0.0	9.9	2446.3	-2.4

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 246
1981/11/30 11:46:54 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
[illegible] A/D THRESHOLD TEST (BAND= 1) SENSOR=16)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
158	0110 0010	2428.75	2460.0	0.0	-0.1	16.1	2462.1	-2.1
159	0110 0001	2444.38	2479.9	-0.1	0.0	19.9	2477.9	1.9
160	0110 0000	2460.00	2484.9	-0.1	-0.6	5.0	2493.8	-8.8
161	0101 1111	2475.63	2504.6	-0.0	-0.0	19.7	2509.6	-5.0
162	0101 1110	2491.25	2513.6	-0.2	-0.3	9.0	2525.4	-11.8
163	0101 1101	2506.88	2539.0	0.3	0.1	25.3	2541.2	-2.3
164	0101 1100	2522.50	2553.3	-0.2	0.1	14.3	2557.1	-3.8
165	0101 1011	2533.13	2570.2	-0.2	-0.2	16.9	2572.9	-2.7
166	0101 1010	2553.75	2580.2	-0.3	0.0	10.0	2588.7	-8.5
167	0101 1001	2569.38	2605.3	-0.0	-0.1	25.1	2604.5	0.8
168	0101 1000	2585.00	2610.9	-0.1	-0.1	5.6	2620.3	-9.4
169	0101 0111	2600.63	2630.4	1.1	1.1	19.5	2636.2	-5.8
170	0101 0110	2616.25	2642.7	0.4	0.3	12.3	2652.0	-9.3
171	0101 0101	2631.88	2665.6	0.1	0.2	22.8	2667.8	-2.3
172	0101 0100	2647.50	2683.0	-0.2	-0.2	17.4	2683.6	-0.6
173	0101 0011	2663.13	2696.9	-0.1	-0.1	13.9	2699.5	-2.6
174	0101 0010	2678.75	2710.3	0.3	0.4	13.4	2715.3	-5.0
175	0101 0001	2694.38	2732.1	-0.1	-0.2	21.8	2731.1	1.0
176	0101 0000	2710.00	2745.5	-0.4	-0.4	13.4	2746.9	-1.4
177	0100 1111	2725.63	2757.2	0.1	0.1	11.7	2762.7	-5.5
178	0100 1110	2741.25	2766.4	0.2	0.2	9.2	2778.6	-12.2
179	0100 1101	2756.88	2791.6	-1.0	-0.0	25.2	2794.4	-2.8
180	0100 1100	2772.50	2807.7	-0.1	-0.0	16.1	2810.2	-2.5
181	0100 1011	2788.13	2822.9	0.0	-0.0	15.2	2826.0	-3.1
182	0100 1010	2803.75	2834.0	0.1	-0.5	11.1	2841.9	-7.9
183	0100 1001	2819.38	2858.1	-0.1	-0.1	24.1	2857.7	0.4

ORIGINAL PAGE IS
OF POOR QUALITY

3.5.3.5-8 A/D THRESHOLD TEST (BAND- 1, SENSOR=16)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO- 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
184	0100 1000	2835.00	2867.4	0.4	0.0	9.4	2873.5	-6.1
185	0100 0111	2850.63	2883.7	0.1	0.2	16.2	2889.3	-5.6
186	0100 0110	2866.25	2895.6	-0.0	-0.0	11.9	2905.2	-9.5
187	0100 0101	2881.88	2917.9	-0.1	-0.0	22.3	2921.0	-3.0
188	0100 0100	2897.50	2939.0	0.1	0.1	21.0	2936.8	2.2
189	0100 0011	2913.13	2949.5	0.1	-0.1	10.5	2952.6	-3.1
190	0100 0010	2928.75	2964.3	-0.1	-0.2	14.8	2968.4	-4.1
191	0100 0001	2944.38	2984.3	-0.0	-0.0	20.0	2984.3	0.0
192	0100 0000	2960.00	2999.3	0.4	0.4	15.0	3000.1	-0.8
193	0011 1111	2975.63	3012.8	-0.0	-0.0	13.5	3015.9	-3.1
194	0011 1110	2991.25	3021.0	-0.2	-0.3	8.2	3031.7	-10.8
195	0011 1101	3006.88	3047.5	0.0	0.1	26.5	3047.6	-0.1
196	0011 1100	3022.50	3059.9	-0.0	-0.1	12.4	3063.4	-3.4
197	0011 1011	3038.13	3078.8	-0.3	-0.2	18.8	3079.2	-0.4
198	0011 1010	3053.75	3087.8	0.4	0.2	9.0	3095.0	-7.2
199	0011 1001	3069.38	3114.3	0.0	0.1	26.5	3110.8	3.5
200	0011 1000	3085.00	3115.5	0.0	-0.1	1.2	3126.7	-11.2
201	0011 0111	3100.63	3140.4	-0.1	0.1	24.9	3142.5	-2.1
202	0011 0110	3116.25	3151.2	0.2	0.2	10.8	3158.3	-7.1
203	0011 0101	3131.88	3175.0	-0.1	-0.3	23.8	3174.1	0.9
204	0011 0100	3147.50	3190.9	-0.2	-0.2	15.9	3190.0	1.0
205	0011 0011	3163.13	3206.2	0.0	-0.1	15.3	3205.8	0.5
206	0011 0010	3178.75	3218.3	0.8	1.2	12.0	3221.6	-3.3
207	0011 0001	3194.38	3241.6	-0.0	-0.1	23.3	3237.4	4.2
208	0011 0000	3210.00	3253.6	-0.4	-0.1	11.9	3253.2	0.3
209	0010 1111	3225.63	3266.7	0.0	-0.1	13.2	3269.1	-2.3

ORIGINAL PAGE IS OF POOR QUALITY

1981/11/30 11:46:54 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] THERMISTOR ID TEST CHANNEL= 1 SENSOR=16

HAC TEST 527

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	TOTAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
210	0010 1110	3241.25	3275.9	-0.0	-0.2	9.2	3284.9	-9.0
211	0010 1101	3255.88	3301.9	-0.1	-0.2	26.0	3300.7	1.2
212	0010 1100	3272.50	3318.2	-0.0	0.0	16.2	3316.5	1.6
213	0010 1011	3283.13	3332.9	0.0	0.0	14.7	3332.4	0.6
214	0010 1010	3303.75	3343.3	0.0	-0.0	10.4	3348.2	-4.9
215	0010 1001	3319.38	3369.0	-0.2	-0.1	25.7	3364.0	5.0
216	0010 1000	3335.00	3374.9	-0.1	-0.1	5.9	3379.8	-4.9
217	0010 0111	3350.63	3395.0	-0.1	-0.1	20.1	3395.6	-0.6
218	0010 0110	3366.25	3406.7	-0.3	-0.3	11.7	3411.5	-4.8
219	0010 0101	3381.88	3429.6	-0.2	-0.1	22.8	3427.3	2.3
220	0010 0100	3397.50	3449.2	0.0	0.0	19.7	3443.1	6.1
221	0010 0011	3413.13	3461.3	0.0	0.0	12.1	3458.9	2.4
222	0010 0010	3428.75	3475.6	-0.5	0.1	14.2	3474.8	0.8
223	0010 0001	3444.38	3496.6	-0.1	-0.1	21.0	3490.6	6.0
224	0010 0000	3460.00	3505.8	-0.0	-0.0	9.1	3506.4	-0.6
225	0001 1111	3475.63	3521.5	-0.1	-0.1	15.8	3522.2	-0.7
226	0001 1110	3491.25	3528.9	-0.0	0.0	7.3	3538.1	-9.2
227	0001 1101	3506.88	3556.6	-0.4	0.1	27.7	3553.9	2.7
228	0001 1100	3522.50	3569.7	-0.5	-0.6	13.1	3569.7	0.0
229	0001 1011	3538.13	3589.3	0.0	-0.1	19.6	3585.5	3.8
230	0001 1010	3553.75	3596.6	0.4	0.7	7.3	3601.3	-4.7
231	0001 1001	3569.38	3623.7	-0.0	-0.0	27.0	3617.2	6.5
232	0001 1000	3585.00	3628.5	-0.1	-0.1	4.8	3633.0	-4.5
233	0001 0111	3600.63	3650.0	0.0	-0.1	21.5	3648.8	1.1
234	0001 0110	3616.25	3660.5	0.1	0.3	10.5	3664.6	-4.1
235	0001 0101	3631.88	3684.9	-0.1	0.0	24.4	3680.5	4.4
236	0001 0100	3647.50	3701.4	-0.2	-0.0	16.5	3696.3	5.1

ORIGINAL PAGE IS OF POOR QUALITY

1981/11/30 11:46:54 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

A/D THRESHOLD TEST (BAND= 1 , SENSOR=16)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO- 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
237	0001 0011	3663.13	3716.7	0.1	0.2	15.3	3712.1	4.6
238	0001 0010	3678.75	3729.4	0.1	-0.8	12.7	3727.9	1.5
239	0001 0001	3694.38	3752.3	-0.1	0.0	22.9	3743.7	8.6
240	0001 0000	3710.00	3767.9	-0.0	0.5	15.6	3759.6	8.4
241	0000 1111	3725.63	3777.9	-0.1	0.0	9.9	3775.4	2.5
242	0000 1110	3741.25	3786.2	-0.3	-0.3	8.3	3791.2	-5.0
243	0000 1101	3756.88	3812.8	-0.1	0.0	26.6	3807.0	5.8
244	0000 1100	3772.50	3828.4	1.5	-0.1	15.6	3822.9	5.6
245	0000 1011	3788.13	3844.6	0.9	1.4	16.2	3838.7	5.9
246	0000 1010	3803.75	3854.7	-0.2	-0.4	10.1	3854.5	0.2
247	0000 1001	3819.38	3880.6	-1.0	-0.1	25.9	3870.3	10.3
248	0000 1000	3835.00	3889.9	0.0	0.6	9.2	3886.1	3.7
249	0000 0111	3850.63	3907.1	-0.1	-0.0	17.2	3902.0	5.1
250	0000 0110	3866.25	3918.2	-0.4	-0.0	11.1	3917.8	0.4
251	0000 0101	3881.88	3941.5	-0.2	0.0	23.4	3933.6	7.9
252	0000 0100	3897.50	3962.0	-0.2	-0.2	20.4	3949.4	12.5
253	0000 0011	3913.13	3974.0	-0.1	-0.1	12.1	3965.3	8.8
254	0000 0010	3928.75	3987.3	-0.1	0.4	13.3	3981.1	6.2
255	0000 0001	3944.38	4008.8	-0.1	0.6	21.4	3996.9	11.9

ORIGINAL PAGE IS OF POOR QUALITY

ORIGINAL PAGE IS
OF POOR QUALITY

Appendix A

Multiplexer Performance Data

A/D THRESHOLD TEST DATA
Band 2

Section 4B

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 250
1981/11/30 11:53:25 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 2, SENSOR=1)

S U M M A R Y

CHECK 1) RMS ERROR, 2) THRESHOLD INCREMENT(+/- 0.0 <= THRH INC <= 31.2)
THE REMAINING DATA ARE FOR INFORMATION ONLY

BEST FIT STRAIGHT LINE IS: Y =15.871X -45.9MV

DEVIATION OF SLOPE FROM IDEAL IS: 1.573%
OFFSET IS:-45.9MV
COEFFICIENT OF DETERMINATION IS: R**2= .99999160
ANALOG INPUT DURING DC RESTORE IS:64.4MV

RMS ERROR = 4.075MV REQMT: RMS ERROR <=7.812MV

THRESHOLD INCREMENT MEASUREMENT

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
25.4MV	220	15.929MV	1.4MV	185	4.646MV

LOWER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
1.3MV	143	-0.028MV	-1.2MV	244	.665MV

UPPER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
5.7MV	238	0.009MV	-1.4MV	95	.839MV

TEST PASSED

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27 NOV 30 '81

HS 2[illegible] THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 251

1981/[illegible]/30 11:53:39 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] A/D THRESHOLD TEST (BAND= 2, SENSOR=1) NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO- 1:1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
THE FOLLOWING DATA ARE FOR INFORMATION ONLY								
1	1111 1111	-24.375	-35.9	-1.7	-0.6		-30.1	-5.8
2	1111 1110	-8.750	-19.5	-0.1	-0.5	16.4	-14.2	-5.3
3	1111 1101	6.875	1.1	0.6	0.7	20.6	1.7	-0.6
4	1111 1100	22.500	14.5	0.9	1.0	13.4	17.5	-3.0
5	1111 1011	38.125	31.2	-0.8	-0.7	16.7	33.4	-2.2
6	1111 1010	53.750	51.2	-0.8	-0.8	20.1	49.3	2.0
7	1111 1001	69.375	67.8	0.7	-0.5	16.5	65.2	2.6
8	1111 1000	85.000	78.1	0.6	0.7	10.3	81.0	-3.0
9	1111 0111	100.625	91.7	-0.1	0.6	13.6	96.9	-5.2
10	1111 0110	116.250	111.0	-0.7	-0.6	19.3	112.8	-1.8
11	1111 0101	131.875	129.9	-0.8	-0.8	18.9	128.6	1.3
12	1111 0100	147.500	146.5	0.7	1.1	16.6	144.5	2.0
13	1111 0011	163.125	158.3	0.6	0.7	11.8	160.4	-2.0
14	1111 0010	178.750	179.8	-0.5	0.1	21.4	176.3	3.5
15	1111 0001	194.375	195.9	-0.8	-0.8	16.1	192.1	3.8
16	1111 0000	210.000	204.9	0.0	-0.7	9.0	208.0	-3.1
17	1110 1111	225.625	218.9	0.7	0.8	14.0	223.9	-5.0
18	1110 1110	241.250	235.5	0.4	0.5	16.6	239.7	-4.2
19	1110 1101	256.875	257.0	-0.7	-0.7	21.5	255.6	1.4
20	1110 1100	272.500	273.0	-0.7	-0.7	16.0	271.5	1.5
21	1110 1011	288.125	285.7	0.6	-0.0	12.7	287.3	-1.7
22	1110 1010	303.750	306.2	0.6	0.7	20.5	303.2	3.0
23	1110 1001	319.375	322.9	-0.1	0.7	16.7	319.1	3.9
24	1110 1000	335.000	338.4	-0.9	-0.9	15.4	335.0	3.4
25	1110 0111	350.625	347.5	-0.7	-0.7	9.1	350.8	-3.3

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 252

1981/11/30 11:52:39 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] A/D THRESHOLD TEST (BAND= 2, SENSOR=1)

HAC TEST S27

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
26	1110 0110	366.250	365.7	0.6	0.5	18.1	366.7	-1.0
27	1110 0101	381.875	384.3	0.7	0.7	18.6	382.6	1.7
28	1110 0100	397.500	405.3	-0.8	0.0	21.0	398.4	6.8
29	1110 0011	413.125	414.1	-0.7	-0.7	8.8	414.3	-0.2
30	1110 0010	428.750	435.0	-0.1	-0.5	20.9	430.2	4.8
31	1110 0001	444.375	450.1	0.8	0.9	15.0	446.1	4.0
32	1110 0000	460.000	457.8	0.6	0.7	7.7	461.9	-4.2
33	1101 1111	475.625	475.4	-0.8	-0.8	17.6	477.8	-2.4
34	1101 1110	491.250	491.1	-0.8	-0.8	15.7	493.7	-2.5
35	1101 1101	506.875	511.7	0.6	-0.0	20.6	509.5	2.2
36	1101 1100	522.500	524.5	0.7	0.7	12.8	525.4	-0.9
37	1101 1011	538.125	541.3	-0.1	0.6	16.7	541.3	-0.0
38	1101 1010	553.750	561.1	-0.9	-0.8	19.8	557.2	4.0
39	1101 1001	569.375	578.9	-0.7	-0.7	17.8	573.0	5.9
40	1101 1000	585.000	590.4	0.6	0.6	11.5	588.9	1.5
41	1101 0111	600.625	607.2	0.7	0.6	11.8	604.8	-2.6
42	1101 0110	616.250	620.8	-0.6	-0.0	18.6	620.6	0.2
43	1101 0101	631.875	640.1	-0.8	-0.8	19.2	636.5	3.6
44	1101 0100	647.500	657.3	-0.0	-0.8	17.2	652.4	4.9
45	1101 0011	663.125	668.6	0.7	0.6	11.3	668.2	0.3
46	1101 0010	678.750	691.2	0.4	0.6	22.6	684.1	7.0
47	1101 0001	694.375	706.1	-0.9	-1.0	14.9	700.0	6.1
48	1101 0000	710.000	718.0	-0.8	-0.7	11.9	715.9.	2.1
49	1100 1111	725.625	728.7	0.8	-0.0	10.7	731.7	-3.0
50	1100 1110	741.250	744.5	0.6	0.7	15.8	747.6	-3.1
51	1100 1101	756.875	765.5	-0.0	0.6	21.0	763.5	2.1

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST 527

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
52	1100 1100	772.500	782.0	-0.7	-0.9	16.4	779.3	2.7
53	1100 1011	788.125	795.6	-0.7	-0.7	13.6	795.2	0.4
54	1100 1010	803.750	814.6	0.6	0.9	19.0	811.1	3.5
55	1100 1001	819.375	831.7	0.7	0.8	17.1	827.0	4.7
56	1100 1000	835.000	850.4	-0.7	-0.0	18.7	842.8	7.5
57	1100 0111	850.625	856.1	-0.9	-0.5	5.8	858.7	-2.6
58	1100 0110	866.250	873.8	0.2	-0.7	17.7	874.6	-0.7
59	1100 0101	881.875	892.4	0.6	0.8	18.6	890.4	2.0
60	1100 0100	897.500	912.3	0.9	0.7	19.9	906.3	6.0
61	1100 0011	913.125	922.1	-0.7	-0.6	9.7	922.2	-0.1
62	1100 0010	928.750	942.5	-0.7	-0.6	20.5	938.0	4.5
63	1100 0001	944.375	958.2	0.7	-0.0	15.6	953.9	4.3
64	1100 0000	960.000	965.8	0.7	0.6	7.6	969.8	-4.0
65	1011 1111	975.625	984.0	0.0	0.7	18.2	985.7	-1.7
66	1011 1110	991.250	1000.0	-0.7	-0.6	16.0	1001.5	-1.5
67	1011 1101	1006.88	1021.5	-0.7	-0.7	21.5	1017.4	4.1
68	1011 1100	1022.50	1032.3	1.1	1.1	10.8	1033.3	-0.9
69	1011 1011	1038.13	1050.0	0.8	0.7	17.6	1049.1	0.8
70	1011 1010	1053.75	1070.8	-0.6	-0.0	20.8	1065.0	5.8
71	1011 1001	1069.38	1087.5	-0.8	-0.7	16.7	1080.9	6.6
72	1011 1000	1085.00	1097.2	0.0	0.6	9.7	1096.8	0.4
73	1011 0111	1100.63	1110.6	0.7	0.6	13.4	1112.6	-2.0
74	1011 0110	1116.25	1128.4	0.6	0.6	17.7	1128.5	-0.1
75	1011 0101	1131.88	1148.1	-0.8	-0.8	19.8	1144.4	3.8
76	1011 0100	1147.50	1165.5	-0.6	-0.6	17.4	1160.2	5.3
77	1011 0011	1163.13	1176.4	0.6	0.0	10.9	1176.1	0.3
78	1011 0010	1178.75	1196.7	0.6	0.6	19.8	1192.0	4.3

ORIGINAL PAGE IS OF POOR QUALITY

1981/11/30 11:50:39 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] A/D TRANSFERSION ID TEST < BAND= 2 > SENSOR= 1 >

HAC TEST 527

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
79	1011 0001	1194.38	1212.8	0.1	1.0	16.6	1207.9	5.0
80	1011 0000	1210.00	1223.2	-0.8	-0.7	10.3	1223.7	-0.6
81	1010 1111	1225.63	1237.1	-0.7	-0.6	14.0	1239.6	-2.4
82	1010 1110	1241.25	1251.9	0.7	0.6	14.8	1255.5	-3.5
83	1010 1101	1256.88	1273.1	0.7	0.6	21.2	1271.3	1.8
84	1010 1100	1272.50	1288.3	-0.6	-0.0	15.2	1287.2	1.1
85	1010 1011	1288.13	1303.0	-0.7	-0.6	14.7	1303.1	-0.1
86	1010 1010	1303.75	1322.1	0.0	-0.8	19.1	1318.9	3.2
87	1010 1001	1319.38	1338.9	0.8	0.8	16.8	1334.8	4.1
88	1010 1000	1335.00	1353.1	0.4	0.5	14.2	1350.7	2.4
89	1010 0111	1350.63	1363.6	-0.8	-0.8	10.4	1366.6	-3.0
90	1010 0110	1366.25	1381.3	-0.5	-0.8	17.7	1382.4	-1.2
91	1010 0101	1381.88	1399.4	0.8	0.0	18.1	1398.3	1.1
92	1010 0100	1397.50	1421.1	0.6	0.4	21.7	1414.2	6.9
93	1010 0011	1413.13	1428.5	-0.3	0.7	7.5	1430.0	-1.5
94	1010 0010	1428.75	1449.3	-0.6	-0.8	20.7	1445.9	3.4
95	1010 0001	1444.38	1465.8	-0.7	-1.4	16.5	1461.8	4.0
96	1010 0000	1460.00	1476.4	0.8	0.7	10.6	1477.7	-1.3
97	1001 1111	1475.63	1489.2	0.7	0.7	12.8	1493.5	-4.3
98	1001 1110	1491.25	1504.7	-0.5	-0.2	15.4	1509.4	-4.7
99	1001 1101	1506.88	1526.4	-0.9	-0.9	21.7	1525.3	1.1
100	1001 1100	1522.50	1537.6	0.0	-0.7	11.2	1541.1	-3.5
101	1001 1011	1538.13	1555.0	0.6	0.7	17.4	1557.0	-2.0
102	1001 1010	1553.75	1574.8	0.6	0.7	19.8	1572.9	1.9
103	1001 1001	1569.38	1592.5	-0.8	-0.9	17.6	1588.7	3.7
104	1001 1000	1585.00	1603.5	-0.7	-0.7	11.1	1604.6	-1.1

ORIGINAL PAGE IS OF POOR QUALITY

HS-25[illegible] THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 255

19[illegible] 11:53:39 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] A/D THRESHOLD TEST (BAND= 2, SENSOR=1

HAC TEST S27

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO - 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
105	1001 0111	1600.63	1615.7	0.7	-0.4	12.1	1620.5	-4.8
106	1001 0110	1616.25	1632.3	1.0	0.9	16.6	1636.4	-4.1
107	1001 0101	1631.88	1652.1	0.0	0.8	19.9	1652.2	-0.1
108	1001 0100	1647.50	1671.2	-0.6	-0.6	19.1	1668.1	3.1
109	1001 0011	1663.13	1682.1	-1.1	-1.0	10.8	1684.0	-1.9
110	1001 0010	1678.75	1700.8	0.5	0.5	18.8	1699.8	1.0
111	1001 0001	1694.38	1717.7	0.9	0.9	16.9	1715.7	2.0
112	1001 0000	1710.00	1736.3	-0.8	0.2	18.5	1731.6	4.7
113	1000 1111	1725.63	1742.2	-0.7	-0.6	6.0	1747.5	-5.2
114	1000 1110	1741.25	1756.7	0.3	-0.4	14.5	1763.3	-6.6
115	1000 1101	1756.88	1777.8	0.7	0.6	21.1	1779.2	-1.4
116	1000 1100	1772.50	1792.2	0.8	0.8	14.4	1795.1	-2.8
117	1000 1011	1788.13	1808.0	-0.8	-0.7	15.8	1810.9	-2.9
118	1000 1010	1803.75	1828.0	-0.7	0.8	20.0	1826.8	1.2
119	1000 1001	1819.38	1843.6	0.8	-0.2	15.6	1842.7	0.9
120	1000 1000	1835.00	1861.0	0.5	0.5	17.4	1858.6	2.5
121	1000 0111	1850.63	1867.3	0.5	0.9	6.3	1874.4	-7.1
122	1000 0110	1866.25	1885.5	-1.1	-1.1	18.2	1890.3	-4.8
123	1000 0101	1881.88	1904.7	-0.0	-0.8	19.1	1906.2	-1.5
124	1000 0100	1897.50	1922.7	0.8	0.8	18.0	1922.0	0.7
125	1000 0011	1913.13	1933.3	0.5	0.6	10.6	1937.9	-4.6
126	1000 0010	1928.75	1953.3	-0.7	-0.2	20.0	1953.8	-0.5
127	1000 0001	1944.38	1970.2	-0.6	-0.7	16.9	1969.6	0.6
128	1000 0000	1960.00	1984.5	-0.0	-0.8	14.3	1985.5	-1.0
129	0111 1111	1975.63	1996.7	0.9	0.7	12.2	2001.4	-4.7
130	0111 1110	1991.25	2013.5	0.4	0.6	16.8	2017.3	-3.7

ORIGINAL PAGE IS OF POOR QUALITY

1981/11/30 11:03:39 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] A/D THRESHOLD TEST <BAND= 2, SENSOR=1 >

HAC TEST 327

NOV 30 81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) NOMINAL	LEVELS RATIO- LOWER	1 :1 UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
131	0111 1101	2006.88	2035.0	-0.8	-0.8	21.5	2033.1	1.9
132	0111 1100	2022.50	2047.3	-0.8	-0.7	12.3	2049.0	-1.7
133	0111 1011	2038.13	2062.7	0.8	-0.0	15.4	2064.9	-2.2
134	0111 1010	2053.75	2081.3	0.7	5.1	18.6	2080.7	0.6
135	0111 1001	2069.38	2100.2	-0.0	0.3	18.9	2096.6	3.6
136	0111 1000	2085.00	2110.8	-0.6	-0.6	10.6	2112.5	-1.7
137	0111 0111	2100.63	2124.0	-0.3	-0.7	13.2	2128.4	-4.4
138	0111 0110	2116.25	2142.0	0.8	0.5	18.0	2144.2	-2.3
139	0111 0101	2131.88	2160.4	1.0	0.9	18.4	2160.1	0.3
140	0111 0100	2147.50	2181.5	-0.7	-0.1	21.1	2176.0	5.5
141	0111 0011	2163.13	2189.9	-1.1	-0.8	8.4	2191.8	-1.9
142	0111 0010	2178.75	2210.9	-0.2	-0.8	20.9	2207.7	3.2
143	0111 0001	2194.38	2226.0	1.3	1.3	15.1	2223.6	2.4
144	0111 0000	2210.00	2239.5	0.0	0.4	13.5	2239.4	0.1
145	0110 1111	2225.63	2250.2	-0.8	-1.1	10.7	2255.3	-5.1
146	0110 1110	2241.25	2266.4	-0.5	-0.5	16.2	2271.2	-4.8
147	0110 1101	2256.88	2286.6	0.7	-0.0	20.1	2287.1	-0.5
148	0110 1100	2272.50	2302.7	0.7	0.7	16.1	2302.9	-0.3
149	0110 1011	2288.13	2315.0	-0.2	0.9	12.3	2318.8	-3.8
150	0110 1010	2303.75	2334.3	-0.6	-0.5	19.3	2334.7	-0.4
151	0110 1001	2319.38	2353.1	0.1	-0.7	18.8	2350.5	2.6
152	0110 1000	2335.00	2369.2	0.8	0.8	16.1	2366.4	2.8
153	0110 0111	2350.63	2375.5	1.0	0.6	6.3	2382.3	-6.7
154	0110 0110	2366.25	2395.0	-0.7	0.1	19.5	2398.2	-3.1
155	0110 0101	2381.88	2413.6	-0.7	-0.9	18.6	2414.0	-0.4
156	0110 0100	2397.50	2437.8	0.1	-0.8	24.1	2429.9	7.9
157	0110 0011	2413.13	2441.3	0.7	0.8	3.6	2445.8	-4.4

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
158	0110 0010	2428.75	2462.7	-0.1	0.6	21.4	2461.6	1.1
159	0110 0001	2444.38	2479.5	-0.9	-0.9	16.8	2477.5	2.0
160	0110 0000	2460.00	2488.3	-0.6	-0.2	8.8	2493.4	-5.1
161	0101 1111	2475.63	2502.5	0.7	-0.4	14.2	2509.3	-6.7
162	0101 1110	2491.25	2518.3	0.5	0.5	15.8	2525.1	-6.8
163	0101 1101	2506.88	2539.4	0.1	0.9	21.0	2541.0	-1.6
164	0101 1100	2522.50	2552.7	-0.7	-0.9	13.4	2556.9	-4.1
165	0101 1011	2538.13	2569.1	-0.0	-0.8	16.4	2572.7	-3.6
166	0101 1010	2553.75	2590.9	0.7	0.7	21.7	2588.6	2.3
167	0101 1001	2569.38	2605.5	0.9	0.9	14.6	2604.5	1.0
168	0101 1000	2585.00	2618.7	-0.6	0.0	13.2	2620.3	-1.7
169	0101 0111	2600.63	2629.9	-0.7	-0.8	11.2	2636.2	-6.3
170	0101 0110	2616.25	2647.9	-0.1	-0.6	18.0	2652.1	-4.2
171	0101 0101	2631.88	2665.9	0.8	0.9	18.0	2668.0	-2.0
172	0101 0100	2647.50	2686.9	-0.0	0.6	21.0	2683.8	3.1
173	0101 0011	2663.13	2695.6	-0.7	-0.7	8.6	2699.7	-4.1
174	0101 0010	2678.75	2715.7	-0.6	-0.6	20.2	2715.6	0.2
175	0101 0001	2694.38	2731.9	0.8	0.0	16.2	2731.4	0.5
176	0101 0000	2710.00	2748.9	1.0	0.8	16.9	2747.4	1.5
177	0100 1111	2725.63	2755.2	0.0	0.6	6.4	2763.2	-8.0
178	0100 1110	2741.25	2771.7	-0.8	-0.6	16.4	2779.1	-7.4
179	0100 1101	2756.88	2792.7	-0.0	-0.8	21.1	2794.9	-2.2
180	0100 1100	2772.50	2807.5	0.8	0.8	14.8	2810.8	-3.3
181	0100 1011	2788.13	2820.7	0.9	1.0	13.2	2826.7	-6.0
182	0100 1010	2803.75	2844.5	-0.7	-0.3	23.8	2842.5	2.0
183	0100 1001	2819.38	2858.7	-0.8	-0.7	14.1	2858.4	0.3

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 258
1981/11/30 11:53:39 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
[illegible] A/D THRESHOLD TEST (BAND= 2, SENSOR=1)

HAC TEST 227

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
184	0100 1000	2835.00	2879.9	0.0	-0.8	21.3	2874.3	5.7
185	0100 0111	2850.63	2881.3	0.9	0.7	1.4	2890.1	-8.8
186	0100 0110	2866.25	2899.9	-0.4	0.6	18.5	2906.0	-6.2
187	0100 0101	2881.88	2919.2	-0.8	-0.9	19.3	2921.9	-2.7
188	0100 0100	2897.50	2943.8	-0.7	-0.7	24.6	2937.8	6.0
189	0100 0011	2913.13	2947.5	0.4	-0.1	3.7	2953.6	-6.2
190	0100 0010	2928.75	2967.9	0.3	0.4	20.4	2969.5	-1.6
191	0100 0001	2944.38	2984.4	-0.1	0.8	16.5	2985.4	-1.0
192	0100 0000	2960.00	2995.1	-0.7	-1.1	10.7	3001.2	-6.1
193	0011 1111	2975.63	3010.7	-0.4	-0.9	15.6	3017.1	-6.4
194	0011 1110	2991.25	3025.8	0.9	0.5	15.0	3033.0	-7.2
195	0011 1101	3006.88	3047.0	0.8	0.9	21.3	3048.9	-1.8
196	0011 1100	3022.50	3059.2	-0.7	-0.1	12.1	3064.7	-5.6
197	0011 1011	3038.13	3076.5	-0.9	-0.8	17.4	3080.6	-4.1
198	0011 1010	3053.75	3099.5	-0.1	-0.8	23.0	3096.5	3.1
199	0011 1001	3069.38	3113.7	0.7	0.8	14.1	3112.3	1.3
200	0011 1000	3085.00	3122.8	0.0	0.6	9.1	3128.2	-5.4
201	0011 0111	3100.63	3137.6	-0.4	-0.6	14.8	3144.1	-6.4
202	0011 0110	3116.25	3156.1	-0.7	-0.7	18.5	3160.0	-3.8
203	0011 0101	3131.88	3174.6	0.7	-0.1	18.5	3175.8	-1.2
204	0011 0100	3147.50	3194.2	0.6	0.7	19.5	3191.7	2.5
205	0011 0011	3163.13	3203.1	0.3	0.8	8.9	3207.6	-4.5
206	0011 0010	3178.75	3224.4	-0.7	-0.6	21.4	3223.4	1.0
207	0011 0001	3194.38	3241.7	0.0	-0.8	17.2	3239.3	2.3
208	0011 0000	3210.00	3250.3	0.7	0.6	8.6	3255.2	-4.9
209	0010 1111	3225.63	3264.5	0.5	0.4	14.1	3271.0	-6.6

ORIGINAL PAGE IS OF POOR QUALITY

HS-[illegible] THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 259
1981 11/30 11:53:39 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

HAC TEST S27

[illegible] A/D THRESHOLD TEST (BAND= 2, SENSOR=1 [illegible]

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO-- 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
210	0010 1110	3241.25	3280.7	-0.3	0.2	16.3	3286.9	-6.2
211	0010 1101	3254.88	3302.3	-0.9	-0.9	21.5	3302.8	-0.5
212	0010 1100	3272.50	3317.2	-0.1	-0.5	15.0	3318.7	-1.4
213	0010 1011	3288.13	3330.5	0.9	0.7	13.2	3334.5	-4.0
214	0010 1010	3303.75	3354.0	0.1	0.4	23.5	3350.4	3.6
215	0010 1001	3319.38	3369.0	-1.0	-1.0	15.0	3366.3	2.7
216	0010 1000	3335.00	3386.9	-1.0	-0.7	18.0	3382.1	4.8
217	0010 0111	3350.63	3391.9	0.8	-0.1	4.9	3398.0	-6.1
218	0010 0110	3366.25	3410.0	0.9	0.8	18.1	3413.9	-3.9
219	0010 0101	3381.88	3429.0	-0.1	1.0	19.1	3429.8	-0.7
220	0010 0100	3397.50	3454.5	-0.8	-0.7	25.4	3445.6	8.8
221	0010 0011	3413.13	3458.9	0.2	-0.6	4.5	3461.5	-2.6
222	0010 0010	3428.75	3479.0	0.6	0.4	20.1	3477.4	1.6
223	0010 0001	3444.38	3495.7	0.8	1.0	16.6	3493.2	2.4
224	0010 0000	3460.00	3510.3	-0.9	0.0	14.6	3509.1	1.2
225	0001 1111	3475.63	3520.8	-0.9	-0.6	10.5	3525.0	-4.2
226	0001 1110	3491.25	3536.3	0.6	-0.6	15.5	3540.8	-4.6
227	0001 1101	3506.88	3557.5	0.7	0.6	21.2	3556.7	0.8
228	0001 1100	3522.50	3568.9	-0.1	0.6	11.4	3572.6	-3.7
229	0001 1011	3538.13	3587.5	-0.8	-0.8	18.6	3588.5	-0.9
230	0001 1010	3553.75	3609.7	-0.9	-0.8	22.2	3604.3	5.4
231	0001 1001	3569.38	3624.4	0.7	0.1	14.6	3620.2	4.2
232	0001 1000	3585.00	3636.3	0.5	0.7	11.9	3636.1	0.2
233	0001 0111	3600.63	3648.5	-0.3	0.7	12.2	3651.9	-3.4
234	0001 0110	3616.25	3666.9	-0.8	-0.6	18.4	3667.8	-0.9
235	0001 0101	3631.88	3686.6	-0.1	-0.8	19.7	3683.7	2.9
236	0001 0100	3647.50	3706.6	0.5	0.6	20.0	3699.6	7.1

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST 327

HS 236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 260
1981/11/30 11:53:39 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.3.5-3 A/D THRESHOLD TEST (BAND= 2, SENSOR=1)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO- 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
236	0001 0011	3663.13	3714.8	0.7	0.9	8.2	3715.4	-0.6
238	0001 0010	3678.75	3735.9	-0.6	5.7	21.0	3731.3	4.6
239	0001 0001	3694.38	3753.7	-0.9	-0.8	17.8	3747.2	6.5
240	0001 0000	3710.00	3773.2	-0.2	-0.8	19.5	3763.0	10.1
241	0000 1111	3725.63	3776.8	0.6	0.7	3.7	3778.9	-2.1
242	0000 1110	3741.25	3792.3	-0.2	0.4	15.4	3794.8	-2.5
243	0000 1101	3756.88	3814.7	-1.0	-0.7	22.4	3810.7	4.0
244	0000 1100	3772.50	3829.7	-1.2	-1.2	15.1	3826.5	3.2
245	0000 1011	3788.13	3843.5	0.5	-0.1	13.8	3842.4	1.1
246	0000 1010	3803.75	3866.6	0.4	0.5	23.1	3858.3	8.4
247	0000 1001	3819.38	3881.1	-0.1	0.8	14.5	3874.1	7.0
248	0000 1000	3835.00	3903.8	-0.9	-0.8	22.7	3890.0	13.8
249	0000 0111	3850.63	3906.3	-0.3	-1.0	2.4	3905.9	0.4
250	0000 0110	3866.25	3923.3	0.7	0.5	17.0	3921.7	1.5
251	0000 0101	3881.88	3942.7	0.7	0.8	19.4	3937.6	5.1
252	0000 0100	3897.50	3967.9	-0.9	-0.0	25.2	3953.5	14.4
253	0000 0011	3913.13	3972.9	-0.7	-0.6	5.0	3969.4	3.5
254	0000 0010	3928.75	3993.3	-0.4	-0.7	20.4	3985.2	8.0
255	0000 0001	3944.38	4010.1	0.6	0.9	16.8	4001.1	9.0

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 261

1981/11/30 12:00:02 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.1.3.1-8 A/D THRESHOLD TEST (BAND= 2, SENSOR=2)

S U M M A R Y

HAC TEST S27

CHECK 1) RMS ERROR, 2) THRESHOLD INCREMENT(+/- 0.0 = THRH INC <= 31.2)
THE REMAINING DATA ARE FOR INFORMATION ONLY

BEST FIT STRAIGHT LINE IS: Y =15.881X -38.0MV

DEVIATION OF SLOPE FROM IDEAL IS: 1.639%
OFFSET IS:-38.0MV
COEFFICIENT OF DETERMINATION IS: R**2= .99998610
ANALOG INPUT DURING DC RESTORE IS:64.5MV

RMS ERROR = 4.367MV REQMT: RMS ERROR <=7.812MV

THRESHOLD INCREMENT MEASUREMENT

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
7.1MV	222	15.948MV	2.6MV	249	5.044MV

LOWER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
2.3MV	243	-0.041MV	-4.1MV	251	.597MV

UPPER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
2.7MV	195	0.049MV	-0.7MV	56	.521MV

TEST PASSED

ORIGINAL PAGE IS OF POOR QUALITY

HS 236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 262

1981/11/30 12:00:15 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 2, SENSOR=2)

HAC TEST S27

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO- 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
THE FOLLOWING DATA ARE FOR INFORMATION ONLY								
1	1111 1111	-24.375	-29.1	0.2	0.1		-22.2	-6.9
2	1111 1110	-8.750	-11.9	0.5	0.5	17.2	-6.3	-5.6
3	1111 1101	6.875	9.3	-0.1	0.4	21.1	9.6	-0.3
4	1111 1100	22.500	21.8	-0.5	-0.5	12.6	25.5	-3.6
5	1111 1011	38.125	38.2	-0.4	-0.4	16.4	41.4	-3.1
6	1111 1010	53.750	60.2	0.3	0.5	21.9	57.2	3.0
7	1111 1001	69.375	75.9	-0.3	-0.2	15.7	73.1	2.8
8	1111 1000	85.000	87.9	-0.4	0.1	11.9	89.0	-1.1
9	1111 0111	100.625	99.6	-0.3	-0.4	11.8	104.9	-5.2
10	1111 0110	116.250	119.2	-0.0	-0.6	19.6	120.8	-1.6
11	1111 0101	131.875	137.4	0.6	0.5	18.2	136.6	0.8
12	1111 0100	147.500	154.1	0.[illegible]	0.5	16.7	152.5	1.6
13	1111 0011	163.125	166.5	-0.6	-0.4	12.4	168.4	-1.9
14	1111 0010	178.750	188.4	-0.5	-0.4	21.9	184.3	4.1
15	1111 0001	194.375	202.8	0.5	0.5	14.4	200.2	2.6
16	1111 0000	210.000	213.4	0.5	0.5	10.6	216.1	-2.7
17	1110 1111	225.625	226.7	-0.1	0.4	13.3	231.9	-5.3
18	1110 1110	241.250	244.5	-0.5	-0.6	17.8	247.8	-3.3
19	1110 1101	256.875	265.4	0.0	-0.4	20.9	263.7	1.7
20	1110 1100	272.500	279.4	0.4	0.4	14.0	279.6	-0.2
21	1110 1011	288.125	293.4	0.3	0.3	14.0	295.5	-2.0
22	1110 1010	303.750	316.0	-0.5	-0.1	22.5	311.3	4.6
23	1110 1001	319.375	330.6	0.2	-0.4	14.6	327.2	3.4
24	1110 1000	335.000	347.5	-0.1	-0.6	16.9	343.1	4.4
25	1110 0111	350.625	354.5	0.4	0.5	7.0	359.0	-4.4

ORIGINAL PAGE IS OF POOR QUALITY

[illegible] BOARD TB-0[illegible]-[illegible] [illegible] [illegible] CHANNEL= 2, SIGNSTIC=2 >

HAC TEST 527
NOV 30 '[illegible]

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	TOTAL VOLTAGE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
26	1110 0110	366.250	374.1	0.0	0.5	19.6	374.9	-0.8
27	1110 0101	381.875	393.2	-0.5	-0.4	19.1	390.7	2.4
28	1110 0100	397.500	412.8	-0.4	-0.6	19.6	406.6	6.2
29	1110 0011	413.125	421.1	0.4	0.1	8.3	427.5	-1.4
30	1110 0010	428.750	443.3	0.5	0.5	22.1	438.4	4.9
31	1110 0001	444.375	458.1	0.0	0.5	14.9	454.3	3.9
32	1110 0000	460.000	467.1	-0.4	-0.4	9.0	470.2	-3.0
33	1101 1111	475.625	483.0	-0.2	-0.7	15.9	486.0	-3.0
34	1101 1110	491.250	498.8	0.6	0.5	15.8	501.9	-3.1
35	1101 110[illegible]	506.875	520.7	0.3	0.5	21.8	517.8	2.9
36	1101 1100	522.500	532.6	-0.4	-0.0	11.9	533.7	-1.1
37	1101 1011	538.125	549.3	-0.2	-0.3	16.7	549.6	-0.3
38	1101 1010	553.750	570.8	-0.0	-0.5	21.[illegible]	565.4	5.3
39	1101 1001	569.375	586.7	0.4	0.2	16.0	581.3	5.4
40	1101 1000	585.000	601.3	-0.0	0.5	14.6	597.2	4.1
41	1101 0111	600.625	610.4	-0.5	-0.4	9.1	613.1	-2.7
42	1101 0110	616.250	629.3	-0.4	-0.3	18.8	629.0	0.3
43	1101 0101	631.875	648.2	0.4	-0.0	18.9	644.8	3.3
44	1101 0100	647.500	664.3	0.5	0.4	16.1	660.7	3.6
45	1101 0011	663.125	676.4	-0.0	0.4	12.0	676.6	-0.3
46	1101 0010	678.750	698.1	-0.6	-0.5	21.7	692.5	5.6
47	1101 0001	694.375	713.3	0.0	-0.3	15.2	708.4	5.0
48	1101 0000	710.000	729.3	0.4	0.5	16.0	724.2	5.1
49	1100 1111	725.625	736.7	0.3	0.3	7.3	740.1	-3.5
50	1100 1110	741.250	753.7	-0.6	0.0	17.0	756.0	-2.3
51	1100 1101	756.875	775.6	-0.8	-0.7	21.9	771.9	3.7

ORIGINAL PAGE IS OF POOR QUALITY

1981/11/30 12:00:15 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
[illegible] A/D THRESHOLD TEST (BAND= 2, SENSOR=2)

HAC TEST S27

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	TOTAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
52	1100 1100	772.500	789.2	-0.1	-0.5	13.6	787.8	1.4
53	1100 1011	788.125	802.9	0.5	0.4	13.7	803.7	-0.8
54	1100 1010	803.750	824.5	-0.3	0.7	21.6	819.5	4.9
55	1100 1001	819.375	841.8	-0.5	-0.4	17.3	835.4	6.4
56	1100 1000	835.000	859.8	-0.6	-0.7	18.0	851.3	8.5
57	1100 0111	850.625	863.7	0.9	0.1	3.8	867.2	-3.5
58	1100 0110	866.250	882.6	0.3	0.5	18.9	883.1	-0.5
59	1100 0101	881.875	901.6	0.1	0.4	19.0	898.9	2.7
60	1100 0100	897.500	920.9	-0.5	-0.5	19.3	914.8	6.1
61	1100 0011	913.125	930.0	-0.0	-0.4	9.1	930.7	-0.8
62	1100 0010	928.750	950.8	0.7	0.7	20.8	946.6	4.2
63	1100 0001	944.375	966.0	0.3	0.3	15.2	962.5	3.5
64	1100 0000	960.000	975.6	-0.5	0.0	9.6	978.3	-2.8
65	1011 1111	975.625	992.0	-0.5	-0.5	16.5	994.2	-2.2
66	1011 1110	991.250	1008.4	0.0	-0.5	16.3	1010.1	-1.7
67	1011 1101	1006.88	1029.5	0.5	0.4	21.1	1026.0	3.5
68	1011 1100	1022.50	1040.3	-0.0	0.5	10.8	1041.9	-1.6
69	1011 1011	1038.13	1058.1	-0.3	-0.2	17.8	1057.8	0.4
70	1011 1010	1053.75	1079.9	-0.5	-0.5	21.8	1073.6	6.3
71	1011 1001	1069.38	1095.4	0.4	0.1	15.4	1089.5	5.8
72	1011 1000	1085.00	1105.2	0.7	0.7	9.8	1105.4	-0.2
73	1011 0111	1100.63	1118.3	0.1	0.5	13.1	1121.3	-2.9
74	1011 0110	1116.25	1137.4	-0.5	-0.5	19.1	1137.2	0.2
75	1011 0101	1131.88	1156.7	0.0	-0.6	19.3	1153.0	3.7
76	1011 0100	1147.50	1171.5	0.5	0.5	14.8	1168.9	2.6
77	1011 0011	1163.13	1184.7	0.5	0.2	13.2	1184.8	-0.1
78	1011 0010	1178.75	1209.4	-0.6	-0.2	24.7	1200.7	8.8

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	TEST VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS NOMINAL	RATIO- 1 :1 LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
79	1011 0001	1194.38	1221.1	0.6	-0.4	11.7	1216.6	4.6
80	1011 0000	1210.00	1233.6	-0.1	-0.6	12.5	1232.4	1.1
81	1010 1111	1225.63	1244.7	0.5	0.3	11.1	1248.3	-3.6
82	1010 1110	1241.25	1260.7	0.0	0.6	16.0	1264.2	-3.5
83	1010 1101	1256.88	1283.1	-0.8	-0.7	22.4	1280.1	3.0
84	1010 1100	1272.50	1295.9	-0.5	-0.5	12.7	1296.0	-0.1
85	1010 1011	1288.13	1310.3	0.5	0.3	14.4	1311.9	-1.6
86	1010 1010	1303.75	1332.2	0.6	0.5	22.0	1327.7	4.5
87	1010 1001	1319.38	1348.0	0.0	0.4	15.8	1343.6	4.4
88	1010 1000	1335.00	1364.0	-0.7	-0.6	15.9	1359.5	4.5
89	1010 0111	1350.63	1371.3	0.1	-0.4	7.3	1375.4	-4.0
90	1010 0110	1366.25	1389.5	0.6	0.6	18.1	1391.3	-1.8
91	1010 0101	1381.88	1408.7	0.5	0.5	19.2	1407.1	1.6
92	1010 0100	1397.50	1427.2	-0.4	0.1	18.5	1423.0	4.2
93	1010 0011	1413.13	1437.1	-0.3	-0.4	9.9	1438.9	-1.8
94	1010 0010	1428.75	1458.3	0.0	-0.5	21.2	1454.8	3.5
95	1010 0001	1444.38	1473.3	1.3	1.1	15.0	1470.7	2.6
96	1010 0000	1460.00	1489.0	-0.1	0.3	15.7	1486.5	2.5
97	1001 1111	1475.63	1498.1	-0.5	-0.4	9.0	1502.4	-4.4
98	1001 1110	1491.25	1513.6	-0.5	-0.5	15.5	1518.3	-4.7
99	1001 1101	1506.88	1535.6	0.4	-0.3	22.0	1534.2	1.4
100	1001 1100	1522.50	1545.4	0.5	0.6	9.8	1550.1	-4.7
101	1001 1011	1538.13	1563.3	0.0	0.4	17.9	1565.9	-2.7
102	1001 1010	1553.75	1585.0	-0.5	-0.6	21.7	1581.8	3.2
103	1001 1001	1569.38	1601.5	0.0	-0.5	16.5	1597.7	3.8
104	1001 1000	1585.00	1614.2	0.6	0.5	12.8	1613.6	0.7

ORIGINAL PAGE IS OF POOR QUALITY

1981/11/30 12:00:11 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] A/D THRESHOLD TEST <BAND= 2, SENSOR=2 >

HAC TEST S27

11/30/81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO- 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
105	1001 0111	1600.63	1623.9	0.5	0.4	9.6	1629.5	-5.6
106	1001 0110	1616.25	1642.5	-0.6	0.0	18.6	1645.4	-2.8
107	1001 0101	1631.88	1662.4	-0.5	-0.5	19.9	1661.2	1.2
108	1001 0100	1647.50	1676.8	0.3	-0.4	14.3	1677.1	-0.3
109	1001 0011	1663.13	1689.7	0.8	0.5	12.9	1693.0	-3.3
110	1001 0010	1678.75	1713.5	0.1	0.5	23.8	1708.9	4.7
111	1001 0001	1694.38	1727.7	-0.4	-0.4	14.2	1724.8	3.0
112	1001 0000	1710.00	1746.3	-0.5	-0.6	18.6	1740.6	5.7
113	1000 1111	1725.63	1750.1	0.2	-0.3	3.8	1756.5	-6.4
114	1000 1110	1741.25	1765.5	0.8	0.6	15.4	1772.4	-6.9
115	1000 1101	1756.88	1787.7	-0.1	0.4	22.2	1788.3	-0.5
116	1000 1100	1772.50	1800.8	-0.5	-0.5	13.0	1804.2	-3.4
117	1000 1011	1788.13	1816.1	0.2	-0.5	15.3	1820.0	-4.0
118	1000 1010	1803.75	1837.1	0.5	0.5	21.0	1835.9	1.2
119	1000 1001	1819.38	1853.4	0.5	0.8	16.3	1851.8	1.6
120	1000 1000	1835.00	1872.1	-0.6	0.1	18.7	1867.7	4.4
121	1000 0111	1850.63	1877.0	-0.4	-0.4	4.9	1883.6	-6.5
122	1000 0110	1866.25	1895.2	-0.2	-0.5	18.2	1899.5	-4.2
123	1000 0101	1881.88	1914.4	0.4	0.4	19.2	1915.3	-0.9
124	1000 0100	1897.50	1931.6	-0.0	0.6	17.2	1931.2	0.4
125	1000 0011	1913.13	1942.7	-0.3	-0.2	11.1	1947.1	-4.4
126	1000 0010	1928.75	1966.8	-0.4	-0.5	24.1	1963.0	3.8
127	1000 0001	1944.38	1980.1	0.4	-0.0	13.4	1978.9	1.3
128	1000 0000	1960.00	1987.4	0.6	0.6	7.3	1994.7	-7.3
129	0111 1111	1975.63	2005.8	0.0	0.4	18.4	2010.6	-4.8
130	0111 1110	1991.25	2023.6	-0.6	-0.6	17.7	2026.5	-2.9

ORIGINAL PAGE IS OF POOR QUALITY

HS 256 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 267

1981/ 1/30 12:00:15 REMALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] A/D THRESHOLD TEST (BAND= 2, SENSOR=2)

HAC TEST S27

EV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO- 1:1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
131	0111 1101	2006.88	2043.7	0.0	-0.2	20.1	2042.4	1.3
132	0111 1100	2022.50	2055.8	0.4	0.4	12.1	2058.3	-2.5
133	0111 1011	2038.13	2071.9	0.4	0.6	16.0	2074.1	-2.3
134	0111 1010	2053.75	2095.3	-0.5	0.0	24.0	2090.0	5.3
135	0111 1001	2069.38	2109.5	-0.4	-0.4	13.7	2105.9	3.6
136	0111 1000	2085.00	2119.8	0.0	-0.4	10.3	2121.8	-1.9
137	0111 0111	2100.63	2132.5	0.5	0.6	12.6	2137.7	-5.2
138	0111 0110	2116.25	2151.9	0.1	0.6	19.4	2153.5	-1.6
139	0111 0101	2131.88	2170.4	-0.4	-0.5	18.5	2169.4	1.0
140	0111 0100	2147.50	2187.2	-0.5	-0.6	16.8	2185.3	1.9
141	0111 0011	2163.13	2198.5	0.4	-0.0	11.3	2201.2	-2.7
142	0111 0010	2178.75	2224.7	0.6	0.6	26.2	2217.1	7.7
143	0111 0001	2194.38	2235.6	-0.0	0.5	10.9	2233.0	2.7
144	0111 0000	2210.00	2245.3	-0.5	-0.6	9.6	2248.8	-3.6
145	0110 1111	2225.63	2259.0	0.0	-0.2	13.7	2264.7	-5.8
146	0110 1110	2241.25	2275.8	0.5	0.4	16.9	2280.6	-4.8
147	0110 1101	2256.88	2299.0	-1.2	0.4	23.2	2296.5	2.5
148	0110 1100	2272.50	2311.2	-0.4	0.0	12.2	2312.4	-1.2
149	0110 1011	2288.13	2324.9	-0.3	-0.5	13.7	2328.2	-3.3
150	0110 1010	2303.75	2349.0	0.0	-0.5	24.0	2344.1	4.9
151	0110 1001	2319.38	2361.8	0.6	0.4	12.8	2360.0	1.8
152	0110 1000	2335.00	2377.4	-0.0	0.6	15.6	2375.9	1.5
153	0110 0111	2350.63	2385.6	-0.4	-0.4	8.2	2391.8	-6.2
154	0110 0110	2366.25	2405.1	-0.6	-0.5	19.6	2407.6	-2.5
155	0110 0101	2381.88	2422.5	0.5	-0.1	17.3	2423.5	-1.1
156	0110 0100	2397.50	2441.7	0.5	0.6	19.3	2439.4	2.3
157	0110 0011	2413.13	2450.4	-0.1	0.7	8.7	2455.3	-4.9

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST 527

BV 30 W

[illegible] A/D THRESHOLD TEST <[illegible] 22 SENSITIVE=22 >

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
158	0110 0010	2428.75	2473.1	-0.4	-0.6	22.7	2471.2	1.9
159	0110 0001	2444.38	2487.3	0.1	0.3	14.2	2487.1	0.3
160	0110 0000	2460.00	2495.9	0.5	0.6	8.6	2502.9	-7.0
161	0101 1111	2475.63	2511.3	0.4	0.4	15.3	2518.8	-7.6
162	0101 1110	2491.25	2528.5	-0.6	0.3	17.2	2534.7	-6.2
163	0101 1101	2506.88	2549.4	-0.5	-0.3	20.9	2550.6	-1.2
164	0101 1100	2522.50	2561.7	0.1	-0.4	12.3	2566.5	-4.8
165	0101 1011	2538.13	2577.1	1.0	0.5	15.4	2582.3	-5.2
166	0101 1010	2553.75	2600.6	-0.1	0.6	23.5	2598.2	2.4
167	0101 1001	2569.38	2615.3	-0.9	-0.6	14.7	2614.1	1.2
168	0101 1000	2585.00	2628.8	-0.8	-0.5	13.4	2630.0	-1.2
169	0101 0111	2600.63	2637.9	0.4	-0.0	9.2	2645.9	-7.9
170	0101 0110	2616.25	2657.0	0.4	0.6	19.0	2661.7	-4.8
171	0101 0101	2631.88	2675.4	0.3	0.6	18.4	2677.6	-2.2
172	0101 0100	2647.50	2692.2	-0.6	-0.5	16.8	2693.5	-1.3
173	0101 0011	2663.13	2704.2	-0.1	-0.5	12.0	2709.4	-5.2
174	0101 0010	2678.75	2730.0	0.5	0.6	25.7	2725.3	4.7
175	0101 0001	2694.38	2740.9	0.3	0.6	10.9	2741.2	-0.2
176	0101 0000	2710.00	2759.1	-0.7	0.0	18.2	2757.0	2.0
177	0100 1111	2725.63	2774.6	-0.6	-0.5	15.5	2772.9	-8.3
178	0100 1110	2741.25	2781.3	-0.1	-0.4	16.7	2788.8	-7.5
179	0100 1101	2756.88	2801.8	0.5	0.5	20.4	2804.7	-2.9
180	0100 1100	2772.50	2816.2	-0.1	0.6	14.5	2820.6	-4.3
181	0100 1011	2788.13	2830.3	-0.5	-0.4	14.1	2836.4	-6.1
182	0100 1010	2803.75	2854.4	-0.6	-0.6	24.1	2852.3	2.1
183	0100 1001	2819.38	2867.4	0.4	0.1	13.0	2868.2	-0.8

ORIGINAL PAGE IS OF POOR QUALITY

HS 2.6 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 269
1981/11/30 12:00:15 PENALTY FULL, PERFORMANCE @ AMBIENT TEMP.

HAC TEST S27

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO 1 21 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
184	0100 1000	2[illegible].00	2887.8	0.6	0.8	20.4	2884.1	3.7
185	0100 0111	2850.63	2890.8	0.0	0.4	3.0	2900.0	-9.2
186	0100 0110	2866.25	2910.2	-0.6	-0.4	19.4	2915.8	-5.6
187	0100 0101	2881.88	2928.8	-0.1	-0.5	18.6	2931.7	-2.9
188	0100 0100	2897.50	2947.7	0.4	0.5	18.8	2947.6	0.1
189	0100 0011	2913.13	2956.7	0.4	0.9	9.0	2963.5	-6.8
190	0100 0010	2928.75	2983.6	-0.8	0.1	26.9	2979.4	4.2
191	0100 0001	2944.38	2994.5	-0.7	-0.6	10.9	2995.2	-0.7
192	0100 0000	2960.00	3005.7	-0.1	-0.7	11.2	3011.1	-5.4
193	0011 1111	2975.63	3019.0	0.5	0.6	13.2	3027.0	-8.1
194	0011 1110	2991.25	3035.8	-0.0	0.6	16.8	3042.9	-7.1
195	0011 1101	3006.88	3057.1	-0.6	2.7	21.4	3058.8	-1.6
196	0011 1100	3022.50	3069.0	-0.5	-0.5	11.9	3074.7	5.6
197	0011 1011	3038.13	3085.3	0.3	-0.1	16.3	3090.5	-5.2
198	0011 1010	3053.75	3109.0	0.4	0.8	23.7	3106.4	2.6
199	0011 1001	3069.38	3123.3	-0.1	-0.1	14.2	3122.3	1.0
200	0011 1000	3085.00	3133.3	-0.5	-0.5	10.0	3138.2	-4.9
201	0011 0111	3100.63	3146.9	0.0	-0.4	13.6	3154.1	-7.1
202	0011 0110	3116.25	3165.4	0.5	0.9	18.5	3169.9	-4.5
203	0011 0101	3131.88	3184.1	0.5	0.5	18.6	3185.8	-1.8
204	0011 0100	3147.50	3200.8	-0.5	-0.0	16.7	3201.[illegible]	-0.9
205	0011 0011	3163.13	3213.3	-0.6	0.5	12.5	3217.6	-4.3
206	0011 0010	3178.75	3240.1	-0.1	-0.5	26.8	3233.5	6.6
207	0011 0001	3194.38	3249.6	0.7	0.6	9.5	3249.3	0.3
208	0011 0000	3210.00	3263.1	-0.1	0.4	13.5	3265.2	-2.1
209	0010 1111	3225.63	3274.1	-0.6	0.4	10.9	3281.1	-7.0

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 270
1981/11/30 12:00:15 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
[illegible] A/D THRESHOLD TEST (GAND= 2, SENSOR=2)

HAC TEST S27

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
210	0010 1110	3241.25	3290.9	-0.6	-0.5	16.8	3297.0	-6.1
211	0010 1101	3256.88	3311.4	0.4	-0.1	20.5	3312.9	-1.4
212	0010 1100	3272.50	3325.4	0.6	0.6	14.0	3328.8	-3.3
213	0010 1011	3288.13	3340.8	-0.8	0.0	15.4	3344.6	-3.8
214	0010 1010	3303.75	3365.0	-0.7	-0.7	24.1	3360.5	4.5
215	0010 1001	3319.38	3378.3	-0.2	-0.3	13.3	3376.4	1.9
216	0010 1000	3335.00	3397.2	0.5	0.5	18.9	3392.3	4.9
217	0010 0111	3350.63	3401.7	0.4	0.3	4.5	3408.2	-6.5
218	0010 0110	3366.25	3421.3	-0.7	-0.1	19.6	3424.0	-2.8
219	0010 0101	3381.88	3443.8	-0.5	-0.5	22.5	3439.9	3.8
220	0010 0100	3397.50	3457.8	0.4	0.0	14.0	3455.8	2.0
221	0010 0011	3413.13	3467.9	0.6	0.5	10.1	3471.7	-3.8
222	0010 0010	3428.75	3495.0	-0.4	0.3	27.1	3487.6	7.4
223	0010 0001	3444.38	3506.3	-1.2	-0.7	11.3	3503.4	2.8
224	0010 0000	3460.00	3523.1	-0.7	0.6	16.8	3519.3	3.7
225	0001 1111	3475.63	3529.6	0.8	0.2	6.5	3535.2	-5.6
226	0001 1110	3491.25	3545.9	0.5	0.6	16.4	3551.1	-5.1
227	0001 1101	3506.88	3570.9	-0.5	-0.1	24.9	3567.0	3.9
228	0001 1100	3522.50	3579.6	-0.6	-0.4	8.7	3582.8	-3.3
229	0001 1011	3538.13	3597.1	-0.3	-0.2	17.5	3598.7	-1.7
230	0001 1010	3553.75	3620.1	0.4	0.5	23.0	3614.6	5.5
231	0001 1001	3569.38	3634.4	1.0	0.5	14.3	3630.5	3.9
232	0001 1000	3585.00	3646.0	0.7	1.0	11.5	3646.4	-0.4
233	0001 0111	3600.63	3658.8	-0.7	-0.4	12.8	3662.3	-3.5
234	0001 0110	3616.25	3676.7	0.7	0.1	17.9	3678.1	-1.5
235	0001 0101	3631.88	3699.9	-3.1	0.4	23.2	3694.0	5.9
236	0001 0100	3647.50	3711.5	-0.1	0.4	11.6	3709.9	1.6

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO- NOMINAL	LOWER	1 :1 UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
237	0001 0011	3663.13	3725.4	-0.6	-0.4	13.9	3725.8	-0.4
238	0001 0010	3678.75	3752.2	-0.7	-0.4	26.8	3741.7	10.6
239	0001 0001	3694.38	3762.8	1.0	0.6	10.6	3757.5	5.3
240	0001 0000	3710.00	3783.7	0.4	0.5	20.9	3773.4	10.3
241	0000 1111	3725.63	3787.1	0.3	0.9	3.4	3789.3	-2.2
242	0000 1110	3741.25	3803.5	-0.8	0.4	16.4	3805.2	-1.7
243	0000 1101	3756.88	3825.2	2.3	2.1	21.7	3821.1	4.2
244	0000 1100	3772.50	3838.2	0.4	0.6	12.9	3836.9	1.2
245	0000 1011	3788.13	3854.8	0.3	0.4	15.7	3852.8	1.0
246	0000 1010	3803.75	3878.0	-6.7	5.1	24.1	3868.7	9.3
247	0000 1001	3819.38	3892.5	-0.9	-6.7	14.5	3884.6	7.9
248	0000 1000	3835.00	3912.7	0.5	0.1	20.2	3900.5	12.3
249	0000 0111	3850.63	3915.3	0.5	0.8	2.6	3916.4	-1.0
250	0000 0110	3866.25	3934.1	-0.1	0.2	18.7	3932.2	1.8
251	0000 0101	3881.88	3957.6	-4.1	-0.4	23.5	3948.1	9.4
252	0000 0100	3897.50	3972.5	-0.7	-0.5	15.0	3964.0	8.5
253	0000 0011	3913.13	3982.7	0.1	0.2	10.2	3979.9	2.9
254	0000 0010	3928.75	4009.7	0.1	0.6	26.9	3995.8	13.9
255	0000 0001	3944.38	4021.6	-0.3	0.4	11.9	4011.6	9.9

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 272
1981/11/30 12:06:38 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.3.5-8 A/D THRESHOLD TEST (BAND= 2, SENSOR=3)
S U M M A R Y

CHECK 1) RMS ERROR, 2) THRESHOLD INCREMENT(+/- 0.0 <= THRH INC <= 31.2)
THE REMAINING DATA ARE FOR INFORMATION ONLY

BEST FIT STRAIGHT LINE IS: Y =15.882X -39.7MV

DEVIATION OF SLOPE FROM IDEAL IS: 1.648%
OFFSET IS:-39.7MV
COEFFICIENT OF DETERMINATION IS: R**2= .99998490
ANALOG INPUT DURING DC RESTORE IS:64.4MV

RMS ERROR = 4.354MV REQMT: RMS ERROR <=7.812MV

THRESHOLD INCREMENT MEASUREMENT

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
26.4MV	254	15.956MV	4.3MV	249	4.801MV

LOWER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
2.8MV	207	-0.025MV	-5.0MV	241	.568MV

UPPER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
6.3MV	242	0.071MV	-2.4MV	75	.577MV

TEST PASSED

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27

[illegible] TO-PREFSHOT D TEST COMMAND= 22 SENSOR=3

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	TOTAL VOLTAGE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO-1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
THE FOLLOWING DATA ARE FOR INFORMATION ONLY								
1	1111 1111	-24.375	-29.7	-0.0	0.2		-23.8	-5.9
2	1111 1110	-8.750	-13.0	-0.3	-0.3	16.6	-7.9	-5.2
3	1111 1101	6.875	8.4	-0.2	0.1	21.5	8.0	0.5
4	1111 1100	22.500	22.2	-0.2	-0.1	13.8	23.9	-1.6
5	1111 1011	38.125	37.5	-0.0	-0.2	15.2	39.8	-2.3
6	1111 1010	53.750	58.1	0.0	0.2	20.7	55.6	2.5
7	1111 1001	69.375	74.1	0.1	0.2	16.0	71.5	2.6
8	1111 1000	85.000	85.9	-0.4	0.3	11.7	87.4	-1.5
9	1111 0111	100.625	98.7	-0.2	-0.1	12.9	103.3	-4.5
10	1111 0110	116.250	117.2	0.0	0.3	18.5	119.2	-1.9
11	1111 0101	131.875	136.4	1.1	0.4	19.2	135.1	1.4
12	1111 0100	147.500	154.0	-0.1	-0.1	17.6	150.9	3.1
13	1111 0011	163.125	165.5	-0.2	-0.1	11.4	166.8	-1.4
14	1111 0010	178.750	186.3	0.2	0.3	20.8	182.7	3.6
15	1111 0001	194.375	202.0	0.2	0.1	15.7	198.6	3.4
16	1111 0000	210.000	211.6	0.1	0.2	9.6	214.5	-2.8
17	1110 1111	225.625	226.0	-0.2	0.1	14.4	230.3	-4.3
18	1110 1110	241.250	242.3	0.3	0.3	16.3	246.2	3.9
19	1110 1101	256.875	263.7	-0.0	-0.1	21.4	252.1	1.6
20	1110 1100	272.500	279.3	-0.1	-0.0	15.5	278.0	1.3
21	1110 1011	288.125	292.6	0.2	0.3	13.3	293.9	-1.3
22	1110 1010	303.750	313.5	-0.7	0.[illegible]	20.9	309.8	3.8
23	1110 1001	319.375	330.1	-0.2	0.2	16.6	325.6	4.5
24	1110 1000	335.000	344.7	-0.3	0.1	14.6	341.5	3.2
25	1110 0111	350.625	353.8	0.1	0.3	9.1	357.4	-3.6

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 274
1981/11/30 12:06:52 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
[illegible] A/D THRESHOLD TEST (BAND— 2, SENSOR=3)

HAC TEST 527
NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
26	1110 0110	366.250	372.9	-0.1	-0.2	19.1	373.3	-0.4
27	1110 0101	381.875	391.7	-0.2	-0.1	18.7	389.2	2.5
28	1110 0100	397.500	411.7	0.2	0.2	20.0	405.1	6.6
29	1110 0011	413.125	420.5	0.2	0.1	8.8	420.9	-0.5
30	1110 0010	428.750	441.8	-0.0	-0.0	21.3	436.8	4.9
31	1110 0001	444.375	457.2	-0.2	0.1	15.5	452.7	4.5
32	1110 0000	460.000	465.6	0.1	0.0	8.4	468.6	-3.0
33	1101 1111	475.625	481.6	0.0	-0.1	16.0	484.5	-2.9
34	1101 1110	491.250	497.5	-0.3	-0.2	15.9	500.3	-2.8
35	1101 1101	506.875	519.0	0.1	0.2	21.4	516.2	2.7
36	1101 1100	522.500	532.1	-0.1	0.0	13.1	532.1	-0.0
37	1101 1011	538.125	548.3	-0.2	-0.2	16.2	548.0	0.3
38	1101 1010	553.750	568.5	-0.1	0.0	20.2	563.9	4.6
39	1101 1001	569.375	585.4	0.1	0.3	16.9	579.8	5.7
40	1101 1000	585.000	598.6	0.0	0.9	13.2	595.6	3.0
41	1101 0111	600.625	609.3	-0.3	-0.2	10.7	611.5	-2.2
42	1101 0110	616.250	627.2	0.2	0.3	17.9	627.4	-0.2
43	1101 0101	631.875	646.7	0.1	-0.0	19.4	643.3	3.4
44	1101 0100	647.500	663.7	0.1	0.4	17.0	659.2	4.5
45	1101 0011	663.125	675.9	-0.3	-0.2	12.2	675.1	0.8
46	1101 0010	678.750	695.7	0.2	0.3	19.8	690.9	4.8
47	1101 0001	694.375	712.1	0.0	-0.2	16.4	706.8	5.3
48	1101 0000	710.000	725.0	0.1	0.0	12.9	722.7	2.3
49	1100 1111	725.625	735.6	0.2	0.3	10.6	738.6	-2.9
50	1100 1110	741.250	751.6	0.2	0.0	15.9	754.5	-2.9
51	1100 1101	756.875	773.0	-0.2	-0.2	21.5	770.4	2.7

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27

DIGITIZED NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO- 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
52	1100 1100	772.500	788.2	0.0	0.0	15.1	786.2	1.9
53	1100 1011	788.125	801.8	0.3	0.3	13.6	802.1	-0.3
54	1100 1010	803.750	822.3	-0.1	0.2	20.5	818.0	4.3
55	1100 1001	819.375	839.2	-0.1	0.0	14.9	833.9	5.3
56	1100 1000	835.000	857.1	0.0	0.0	17.9	849.8	7.3
57	1100 0111	[illegible].625	862.5	0.3	0.1	5.4	865.6	-3.1
58	1100 0110	866.250	881.0	-0.2	0.2	18.4	881.5	-0.5
59	1100 0101	881.875	899.9	-0.1	0.0	18.9	897.4	2.5
60	1100 0100	897.500	919.4	0.2	0.3	19.5	913.3	6.1
61	1100 0011	913.125	928.8	0.0	-0.2	9.4	929.2	-0.4
62	1100 0010	928.750	949.2	-0.2	-0.1	20.4	945.1	4.1
63	1100 0001	944.375	964.8	0.3	0.3	15.6	960.9	3.9
64	1100 0000	960.000	973.9	-0.0	-0.2	9.1	976.8	-2.9
65	1011 1111	975.625	990.8	-0.2	-0.2	16.9	992.7	-1.9
66	1011 1110	991.250	1006.4	-0.2	0.0	15.6	1008.6	-2.2
67	1011 1101	1006.88	1027.9	1.9	1.7	21.5	1024.5	3.4
68	1011 1100	1022.50	1041.6	-0.2	0.4	13.7	1040.4	1.2
69	1011 1011	1038.13	1057.0	-0.4	-0.2	15.4	1056.2	0.7
70	1011 1010	1053.75	1077.2	0.0	0.1	20.3	1072.1	5.1
71	1011 1001	1069.38	1094.0	0.0	0.0	16.8	1088.0	6.0
72	1011 1000	1085.00	1103.4	0.3	0.3	9.4	1103.9	-0.5
73	1011 0111	1100.62	1117.6	-0.3	-0.0	14.1	1119.8	-2.2
74	1011 0110	1116.25	1135.2	0.3	0.2	17.6	1135.6	-0.4
75	1011 0101	1131.88	1157.0	-2.3	-2.4	21.8	1151.5	5.5
76	1011 0100	1147.50	1171.2	-0.2	-0.2	14.1	1167.4	3.8
77	1011 0011	1163.13	1183.2	0.2	0.2	12.1	1183.3	-0.0
78	1011 0010	1178.75	1203.3	0.3	0.1	20.0	1199.2	4.1

ORIGINAL PAGE IS OF POOR QUALITY

1981/11/30 12:06:52 FINALITY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] TO-DEF STEP-DOWN TO TEST (COMMAND= 22 , SENSOR=14) [illegible]

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	TOTAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
79	1011 0001	1194.38	1219.8	-0.1	-0.3	16.5	1215.1	4.8
80	1011 0000	1210.00	1230.2	0.3	0.1	10.4	1230.9	-0.7
81	1010 1111	1225.63	1243.6	0.4	0.1	13.4	1246.8	-3.2
82	1010 1110	1241.25	1259.3	-0.0	0.0	15.7	1262.7	-3.4
83	1010 1101	1256.88	1282.4	-0.3	-0.3	23.1	1278.6	3.8
84	1010 1100	1272.50	1294.8	0.1	0.0	12.3	1294.5	0.3
85	1010 1011	1288.13	1309.4	0.0	0.2	14.7	1310.4	-0.9
86	1010 1010	1303.75	1330.4	-0.1	-0.0	20.9	1326.2	4.1
87	1010 1001	1319.38	1346.6	-0.1	-0.0	16.2	1342.1	4.5
88	1010 1000	1335.00	1360.6	0.3	0.3	13.9	1358.0	2.6
89	1010 0111	1350.63	1370.2	0.0	-0.4	9.6	1373.9	-3.7
90	1010 0110	1366.25	1388.3	-0.1	-0.1	18.1	1389.8	-1.5
91	1010 0101	1381.88	1409.2	0.3	-2.3	21.0	1405.7	3.6
92	1010 0100	1397.50	1425.6	0.5	0.0	16.4	1421.5	4.1
93	1010 0011	1413.13	1436.3	-0.8	-0.4	10.6	1437.4	-1.1
94	1010 0010	1428.75	1456.0	0.0	0.1	19.7	1453.3	2.7
95	1010 0001	1444.38	1472.7	0.2	0.1	16.7	1469.2	3.5
96	1010 0000	1460.00	1486.2	-0.1	-0.0	13.5	1485.1	1.1
97	1001 1111	1475.63	1496.5	-0.3	-0.2	10.3	1500.9	-4.5
98	1001 1110	1491.25	1511.2	0.2	0.3	14.7	1516.8	-5.6
99	1001 1101	1506.88	1533.1	-0.1	0.0	21.9	1532.7	0.4
100	1001 1100	1522.50	1544.6	0.2	0.1	11.4	1548.6	-4.0
101	1001 1011	1538.13	1562.3	-0.1	0.3	17.7	1564.5	-2.2
102	1001 1010	1553.75	1582.2	0.0	0.0	19.9	1580.4	1.9
103	1001 1001	1569.38	1599.2	0.1	0.0	16.9	1596.2	2.9
104	1001 1000	1585.00	1611.3	0.6	0.6	12.1	1612.1	-0.8

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST 527

HC-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 277
1981/11/30 12:06:52 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

HAC TEST 527

[illegible] A/D THRESHOLD TEST (BAND- 2, SENSOR=3)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO 1:1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
105	1001 0111	1600.63	1622.7	0.3	0.4	11.4	1628.0	-5.4
106	1001 0110	1616.25	1640.0	0.2	0.1	17.3	1643.9	-3.9
107	1001 0101	1631.88	1659.7	-0.1	0.0	19.7	1659.8	-0.1
108	1001 0100	1637.50	1676.9	-0.3	0.0	17.2	1675.7	1.2
109	1001 0011	1663.13	1688.8	0.4	0.4	11.9	1691.5	-2.7
110	1001 0010	1678.75	1711.7	0.2	0.0	22.9	1707.4	4.3
111	1001 0001	1694.38	1725.6	-0.0	-0.1	13.9	1723.3	2.3
112	1001 0000	1710.00	1738.7	-0.1	-0.1	13.1	1739.2	-0.4
113	1000 1111	1725.63	1748.5	0.2	0.1	9.8	1755.1	-6.6
114	1000 1110	1741.25	1763.8	-0.1	-0.1	15.3	1770.9	-7.2
115	1000 1101	1756.88	1785.3	0.0	-0.1	21.5	1786.8	-1.6
116	1000 1100	1772.50	1799.6	-0.1	-0.1	14.3	1802.7	-3.2
117	1000 1011	1788.13	1814.6	0.1	-0.1	15.0	1818.6	-4.0
118	1000 1010	1803.75	1835.0	-0.0	0.0	20.4	1834.5	0.5
119	1000 1001	1819.38	1851.5	-0.1	-0.1	16.5	1850.4	1.1
120	1000 1000	1835.00	1868.9	0.6	0.2	17.4	1866.2	2.7
121	1000 0111	1850.63	1875.1	-0.2	-0.3	6.2	1882.1	-7.0
122	1000 0110	1866.25	1892.4	-0.1	0.1	17.3	1898.0	-5.6
123	1000 0101	1881.88	1911.6	-0.1	-0.0	19.2	1913.9	-2.3
124	1000 0100	1897.50	1930.6	-0.0	-0.3	19.0	1929.8	0.8
125	1000 0011	1913.13	1940.8	-0.3	-0.2	10.2	1945.7	-4.8
126	1000 0010	1928.75	1963.8	0.0	0.1	23.0	1961.5	2.3
127	1000 0001	1944.38	1977.5	-0.0	-0.1	13.7	1977.4	0.1
128	1000 0000	1960.00	1986.7	-0.1	-0.3	11.1	1993.3	-4.6
129	0111 1111	975.63	2004.3	-0.1	0.2	15.7	2009.2	-4.8
130	0111 1110	1991.25	2020.9	0.3	0.2	16.5	2025.1	-4.2

ORIGINAL PAGE IS OF POOR QUALITY

HS 236 THEMATIC MAPPER MUX UNIT TEST MODEL .. FLT. S/N 3 PAGE 278

1981/11/30 12:06:52 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] A/D THRESHOLD TEST (BAND= 2 , SENSOR=3)

HAC TEST 527

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
131	0111 1101	2006.88	2044.7	0.1	-0.0	23.9	2040.9	3.8
132	0111 1100	2022.50	2057.8	0.6	0.4	13.1	2056.8	1.0
133	0111 1011	2038.13	2069.9	0.5	0.4	17.1	2072.7	-2.8
134	0111 1010	2053.75	2092.8	0.0	-0.1	22.8	2088.6	4.2
135	0111 1001	2069.38	2110.2	-0.3	-0.3	17.4	2104.5	5.7
136	0111 1000	2085.00	2117.3	0.3	0.3	7.2	2120.4	-3.0
137	0111 0111	2100.63	2130.6	0.3	0.6	13.2	2136.2	-5.7
138	0111 0110	2116.25	2150.0	0.1	-0.1	19.4	2152.1	-2.2
139	0111 0101	2131.88	2171.1	0.7	0.5	21.1	2168.0	3.1
140	0111 0100	2147.50	2186.7	0.2	0.3	15.6	2183.9	2.8
141	0111 0011	2163.13	2196.7	0.4	0.0	10.0	2199.8	-3.1
142	0111 0010	2178.75	2217.9	-0.2	-0.2	21.2	2215.7	2.3
143	0111 0001	2194.38	2233.3	-0.4	-0.0	15.4	2231.5	1.7
144	0111 0000	2210.00	2241.8	-0.1	-0.2	8.5	2247.4	-5.6
145	0110 1111	2225.63	2256.9	-0.0	-0.2	15.1	2263.3	-6.4
146	0110 1110	2241.25	2273.6	-0.2	-0.1	16.7	2279.2	-5.6
147	0110 1101	2256.88	2297.0	0.3	0.3	23.4	2295.1	1.9
148	0110 1100	2272.50	2309.9	0.1	-0.0	12.8	2311.0	-1.1
149	0110 1011	2288.13	2322.8	-0.4	-0.3	13.0	2326.8	-4.0
150	0110 1010	2303.75	2346.0	-0.1	0.0	23.1	2342.7	3.3
151	0110 1001	2319.38	2359.9	2.6	2.7	13.9	2358.6	1.3
152	0110 1000	2335.00	2374.8	0.0	-0.3	14.8	2374.5	0.3
153	0110 0111	2350.63	2383.4	-0.3	-0.2	8.6	2390.4	-6.9
154	0110 0110	2366.25	2407.2	0.2	0.3	18.7	2406.2	-4.1
155	0110 0101	2381.88	2423.9	0.1	0.0	21.7	2427.1	1.7
156	0110 0100	2397.50	2443.7	-0.3	-0.2	19.8	2438.0	5.7
157	0110 0011	2413.13	2449.1	-0.1	0.1	5.4	2453.9	-4.8

ORIGINAL PAGE IS OF POOR QUALITY

HS-2[illegible] THEMATIC MAPPER [illegible] UNIT TEST MODEL.. FLT. S/N 3 PAGE 279

1981/11/30 12:06:52 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] A/D THRESHOLD TEST [illegible] SENSOR=3

HAC TEST S27

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
158	0110 0010	2428.75	2470.3	0.2	0.3	21.2	2469.8	0.5
159	0110 0001	2444.38	2486.5	2.4	-0.3	16.2	2485.7	0.9
160	0110 0000	2460.00	2498.4	-0.1	-1.1	11.9	2501.5	-3.1
161	0101 1111	2475.63	2509.7	0.2	0.4	11.3	2517.4	-7.7
162	0101 1110	2491.25	2525.9	0.2	0.1	16.2	2533.3	-7.4
163	0101 1101	2506.88	2550.5	-0.2	-0.1	24.6	2549.2	1.3
164	0101 1100	2522.50	2560.1	0.0	-0.4	9.5	2565.1	-5.0
165	0101 1011	2538.13	2575.7	0.3	0.5	15.6	2581.0	-5.3
166	0101 1010	2553.75	2598.1	-0.1	-0.0	22.4	2596.8	1.3
167	0101 1001	2569.38	2615.7	-2.4	-0.1	17.6	2612.7	3.0
168	0101 1000	2585.00	2626.0	-0.2	-0.3	10.3	2628.6	-2.6
169	0101 0111	2600.63	2636.5	0.2	0.0	10.5	2644.5	-7.9
170	0101 0110	2616.25	2655.2	-0.3	-0.2	18.7	2660.4	-5.1
171	0101 0101	2631.88	2677.1	0.1	0.2	21.9	2676.2	0.9
172	0101 0100	2647.50	2693.1	0.0	0.1	16.0	2692.1	1.0
173	0101 0011	2663.13	2702.6	0.0	-0.1	9.5	2708.0	-5.4
174	0101 0010	2678.75	2727.8	-0.1	0.2	25.2	2723.9	3.9
175	0101 0001	2694.38	2742.0	-2.2	0.6	14.1	2739.8	2.2
176	0101 0000	2710.00	2756.1	-0.6	0.0	14.1	2755.7	0.4
177	0100 1111	2725.63	2763.0	0.4	-0.2	6.9	2771.5	-8.6
178	0100 1110	2741.25	2779.1	-0.2	0.0	16.1	2787.4	8.3
179	0100 1101	2756.88	2802.9	0.1	0.2	23.8	2803.3	-0.4
180	0100 1100	2772.50	2815.1	0.0	0.1	12.1	2819.2	-4.1
181	0100 1011	2788.13	2828.7	-0.3	-0.3	13.6	2835.1	6.3
182	0100 1010	2803.75	2851.3	0.5	0.1	22.6	2851.0	0.4
183	0100 1001	2819.38	2869.4	-0.7	-0.8	18.1	2866.8	2.6

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 280

1981/11/30 12:06:52 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] A/D THRESHOLD TEST (BAND= 2, SENSOR=3)

HAC TEST S27

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
184	0100 1000	2835.00	2885.2	-0.6	-0.4	15.7	2882.7	2.4
185	0100 0111	2850.63	2889.6	-0.2	0.1	4.4	2898.6	-9.0
186	0100 0110	2866.25	2907.9	0.2	0.0	18.3	2914.5	-6.6
187	0100 0101	2881.88	2930.1	-0.1	-0.2	22.2	2930.4	-0.2
188	0100 0100	2897.50	2950.2	0.1	0.1	20.1	2946.2	4.0
189	0100 0011	2913.13	2955.0	0.3	0.4	4.7	2962.1	-7.1
190	0100 0010	2928.75	2975.9	0.1	0.2	20.9	2978.0	-2.2
191	0100 0001	2944.38	2992.6	-0.1	-0.2	16.7	2993.9	-1.3
192	0100 0000	2960.00	3003.3	-0.1	-0.1	10.7	3009.8	-6.5
193	0011 1111	2975.63	3017.4	0.3	0.4	14.2	3025.7	-8.2
194	0011 1110	2991.25	3033.9	-0.1	-0.1	16.5	3041.5	-7.6
195	0011 1101	3006.88	3058.5	-0.1	0.1	24.6	3057.4	1.0
196	0011 1100	3022.50	3070.8	-0.6	-0.7	12.3	3073.3	-2.5
197	0011 1011	3038.13	3083.6	0.3	0.1	12.8	3089.2	-5.5
198	0011 1010	3053.75	3106.5	-0.1	-0.1	22.8	3105.1	1.4
199	0011 1001	3069.38	3124.0	-0.2	0.1	17.5	3121.0	3.0
200	0011 1000	3085.00	3130.7	-0.0	-0.1	6.7	3136.8	-6.2
201	0011 0111	3100.63	3145.1	-0.1	-0.3	14.4	3152.7	-7.6
202	0011 0110	3116.25	3163.6	-0.2	0.0	18.4	3168.6	-5.0
203	0011 0101	3131.88	3185.8	0.5	0.5	22.2	3184.5	1.3
204	0011 0100	3147.50	3200.7	-0.2	-0.2	14.9	3200.4	0.4
205	0011 0011	3163.13	3211.4	-0.3	-0.2	10.7	3216.3	-4.8
206	0011 0010	3178.75	3237.1	-0.1	0.1	25.7	3232.1	5.0
207	0011 0001	3194.38	3248.7	2.8	2.8	11.6	3248.0	0.7
208	0011 0000	3210.00	3258.4	-0.0	0.3	9.7	3263.9	-5.5
209	0010 1111	3225.63	3272.1	-0.3	-0.2	13.8	3279.8	-7.6

ORIGINAL PAGE IS OF POOR QUALITY

HS 236 THEMATIC MAPPER SUK UNIT TEST MODEL.. FLT. S/N 3 PAGE 281
1981/11/30 12:06:52 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
[illegible]

HAC TEST S27

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO-- 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
210	0010 1110	3241.25	3288.2	0.2	0.3	16.0	3295.7	-7.5
211	0010 1101	3256.88	3312.9	0.1	0.1	24.7	3311.5	1.4
212	0010 1100	3272.50	3324.6	-0.2	0.1	11.7	3327.4	-2.8
213	0010 1011	3288.13	3338.6	-0.3	0.1	14.0	3343.3	-4.7
214	0010 1010	3303.75	3361.5	-0.0	0.1	22.9	3359.2	2.3
215	0010 1001	3319.38	3378.8	-0.1	-0.1	17.2	3375.1	3.7
216	0010 1000	3335.00	3391.6	-0.5	-0.4	12.8	3391.0	0.7
217	0010 0111	3350.63	3399.6	0.2	0.4	3.0	3406.8	-7.2
218	0010 0110	3366.25	3418.8	0.1	0.1	19.1	3422.7	-4.0
219	0010 0101	3381.88	3441.3	-0.2	-0.2	22.5	3438.6	2.7
220	0010 0100	3397.50	3460.3	-0.3	-0.0	19.0	3454.5	5.8
221	0010 0011	3413.13	3466.6	0.3	0.2	6.4	3470.4	-3.7
222	0010 0010	3428.75	3492.9	-0.1	0.1	26.3	3486.3	6.6
223	0010 0001	3444.38	3507.0	-0.3	-0.1	14.1	3502.1	4.9
224	0010 0000	3460.00	3519.8	-0.1	0.1	12.7	3518.0	1.8
225	0001 1111	3475.63	3528.3	0.1	0.1	8.6	3533.9	-5.6
226	0001 1110	3491.25	3545.4	-0.5	-0.5	17.0	3549.8	-4.4
227	0001 1101	3506.88	3569.3	-0.1	0.1	23.9	3565.7	3.7
228	0001 1100	3522.50	3577.2	-0.3	-0.4	7.9	3581.5	-4.4
229	0001 1011	3538.13	3595.2	-0.0	-0.1	18.0	3597.4	-2.3
230	0001 1010	3553.75	3617.2	-0.2	0.1	22.0	3613.3	3.9
231	0001 1001	3569.38	3637.2	0.1	0.2	20.0	3629.2	8.0
232	0001 1000	3585.00	3645.2	-0.3	0.2	8.0	3645.1	0.1
233	0001 0111	3600.63	3657.1	-0.4	-0.2	11.9	3661.0	-3.9
234	0001 0110	3616.25	3675.1	-0.2	0.1	18.0	3676.8	-1.8
235	0001 0101	3631.88	3698.0	0.1	0.2	22.9	3692.7	5.2
236	0001 0100	3647.50	3713.3	-0.1	-0.1	15.4	3708.6	4.7

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST 527
NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO- NOMINAL	LOWER	1 :1 UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
237	0001 0011	3663.13	3723.8	-0.3	-0.2	10.5	3724.5	-0.7
238	0001 0010	3678.75	3749.2	-0.2	0.1	25.4	3740.4	8.8
239	0001 0001	3694.38	3764.1	1.6	1.5	15.0	3756.3	7.9
240	0001 0000	3710.00	3779.6	0.4	0.6	15.4	3772.1	7.5
241	0000 1111	3725.63	3790.4	-5.0	0.0	10.8	3788.0	2.4
242	0000 1110	3741.25	3800.8	0.1	6.3	10.4	3803.9	-3.1
243	0000 1101	3756.88	3826.0	-0.1	0.1	25.2	3819.8	6.3
244	0000 1100	3772.50	3837.0	-0.2	0.0	11.0	3835.7	1.3
245	0000 1011	3788.13	3852.0	0.2	0.4	15.0	3851.5	0.4
246	0000 1010	3803.75	3874.6	-0.1	0.0	22.6	3867.4	7.2
247	0000 1001	3819.38	3894.2	-0.3	-0.2	19.6	3883.3	10.9
248	0000 1000	3835.00	3909.6	-0.5	-0.0	15.4	3899.2	10.4
249	0000 0111	3850.63	3913.9	0.3	0.4	4.3	3915.1	-1.2
250	0000 0110	3866.25	3932.3	-0.1	0.1	18.4	3931.0	1.3
251	0000 0101	3881.88	3955.3	-0.3	0.0	23.0	3946.8	8.4
252	0000 0100	3897.50	3974.9	0.1	0.4	19.7	3962.7	12.2
253	0000 0011	3913.13	3981.0	0.2	0.1	6.0	3978.6	2.4
254	0000 0010	3928.75	4007.3	-0.4	-0.1	26.4	3994.5	12.9
255	0000 0001	3944.38	4023.2	0.1	0.1	15.9	4010.4	12.9

ORIGINAL PAGE IS OF POOR QUALITY

US-236 THEMATIC MAPPER DUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 283
1981/11/30 12:13:14 FINALLY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] THRESHOLD TEST [illegible] SENSOR=4 [illegible]

[illegible]

(CHECK 1) RMS ERROR, 2) THRESHOLD INCREMENT(+/- 0.0 THRH INC = 31.2)
THE REMAINING DATA ARE FOR INFORMATION ONLY

[illegible] STRAIGHT LINE [illegible] 15.881X -37.0MV

DEVIATION OF SLOPE FROM IDEAL IS: 1.636%
OFFSET IS:-37.0MV
COEFFICIENT OF DETERMINATION IS: R**2 .99998830
AVG DC INPUT DURING DC RESTORE IS:64.[illegible]MV

[illegible] 41.[illegible]MV [illegible] RMS ERROR <=7.[illegible]MV

[illegible]

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
77.1MV	254	15.940MV	3.2MV	249	5.047MV

[illegible]

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
[illegible]MV	[illegible]	-0.103MV	-6.8MV	200	.684MV

[illegible]

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
[illegible]MV	168	-0.028MV	-3.2MV	219	.637MV

TEST PASSED

ORIGINAL PAGE IS
OF POOR QUALITY

HS 234 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 284
1981/11/30 12:13:28 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
[illegible] A/D THRESHOLD TEST (BAND= 2, SENSOR=4) [illegible]

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO- 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
THE FOLLOWING DATA ARE FOR INFORMATION ONLY								
1	1111 1111	-24.375	-28.0	-0.9	0.0		-21.1	-6.9
2	1111 1110	-8.750	-10.3	-0.4	-0.3	17.7	-5.2	-5.1
3	1111 1101	6.875	10.3	0.0	-0.1	20.6	10.7	-0.3
4	1111 1100	22.500	23.6	0.0	0.1	13.2	26.5	-3.0
5	1111 1011	38.125	39.2	-0.3	-0.1	15.7	42.4	-3.2
6	1111 1010	53.750	60.9	0.3	-0.3	21.7	58.3	2.6
7	1111 1001	69.375	76.1	-0.3	-0.2	15.2	74.2	1.9
8	1111 1000	85.000	88.5	0.1	-2.3	12.4	90.1	-1.6
9	1111 0111	100.625	100.3	0.1	0.1	11.8	105.9	-5.7
10	1111 0110	116.250	120.2	-0.3	0.0	19.9	121.8	-1.6
11	1111 0101	131.875	138.6	-0.2	-0.1	18.3	137.7	0.9
12	1111 0100	147.500	155.9	-0.1	0.0	17.4	153.6	2.3
13	1111 0011	163.125	167.5	0.1	-0.3	11.5	169.5	-2.0
14	1111 0010	178.750	188.9	-0.1	0.2	21.5	185.3	3.6
15	1111 0001	194.375	204.4	-0.6	-0.3	15.4	201.2	3.1
16	1111 0000	210.000	213.1	-0.3	-0.3	8.8	217.1	-4.0
17	1110 1111	225.625	227.7	0.0	0.2	14.5	233.0	-5.3
18	1110 1110	241.250	245.3	0.1	0.2	17.6	249.9	-3.6
19	1110 1101	256.875	266.3	-0.1	0.0	21.0	264.7	1.5
20	1110 1100	272.500	281.1	-0.2	-0.2	14.8	280.6	0.5
21	1110 1011	288.125	294.8	-0.1	-0.1	13.7	296.5	-1.7
22	1110 1010	303.750	316.6	0.1	0.2	21.7	312.4	4.2
23	1110 1001	319.375	331.2	-0.0	0.1	14.7	328.3	3.0
24	1110 1000	335.000	347.5	-0.4	0.0	16.2	344.2	3.3
25	1110 0111	350.625	355.8	-0.1	0.1	8.3	360.0	-4.3

ORIGINAL PAGE IS OF POOR QUALITY

C-4

HS-234 THERMATIC MATTER MUX UNIT TEST MODEL .. FLT. S/N 3 PAGE 265

1981/11/30 12:13:28 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] TEST CHANNEL= 22 , SENSOR=4 >

HAC TEST S27

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1.31 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
26	1110 0110	356.250	376.0	-0.2	-0.3	20.2	375.9	0.0
27	1110 0101	381.875	393.8	0.2	0.3	17.8	391.8	2.0
28	1110 0100	397.500	414.7	0.2	-0.5	20.9	407.7	7.0
29	1110 0011	413.125	422.7	0.0	-0.3	8.0	423.6	-0.8
30	1110 0010	428.750	444.7	-0.2	-0.2	21.9	439.4	5.2
31	1110 0001	444.375	459.1	-0.1	0.1	14.4	455.3	3.7
32	1110 0000	460.000	470.9	0.2	0.2	11.8	471.2	-0.3
33	1101 1111	475.625	483.7	-0.1	0.0	12.8	487.1	-3.4
34	1101 1110	491.250	500.4	-0.2	-0.3	16.7	503.0	-2.5
35	1101 1101	506.875	521.8	-0.2	-0.3	21.4	518.8	3.0
36	1101 1100	522.500	534.4	0.2	0.2	12.5	534.7	-0.4
37	1101 1011	538.125	550.0	0.0	0.0	15.6	550.6	-0.6
38	1101 1010	553.750	571.2	-0.3	-0.0	21.2	566.5	4.7
39	1101 1001	569.375	586.8	0.2	-0.1	15.6	582.4	4.5
40	1101 1000	585.000	599.1	-0.0	-0.3	12.3	598.2	0.9
41	1101 0111	600.625	611.0	0.1	0.2	11.9	614.1	-3.1
42	1101 0110	616.250	630.1	-0.0	0.5	19.0	630.0	0.1
43	1101 0101	631.875	649.7	-0.2	-0.1	19.6	645.9	3.8
44	1101 0100	647.500	666.4	0.1	0.1	16.7	661.8	4.6
45	1101 0011	663.125	677.5	0.4	-0.0	11.1	677.6	-0.1
46	1101 0010	678.750	701.0	-0.1	0.1	23.5	693.5	7.5
47	1101 0001	694.375	714.1	-0.3	-0.0	13.1	709.4	4.7
48	1101 0000	710.000	726.8	-0.3	-0.3	12.6	725.3	1.5
49	1100 1111	725.625	737.8	-0.0	-0.1	11.0	741.2	-3.4
50	1100 1110	741.250	754.5	0.1	0.2	16.7	757.0	-2.6
51	1100 1101	756.875	775.7	0.1	0.1	21.2	772.9	2.7

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THERMATIC BOMETER MUX UNIT TEST MODEL .. FLT. S/N 3 PAGE 286

1981/11/30 12:13:28 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] TO-DEGREES-KELVIN [illegible] CHANNEL= 32 SENSOR= [illegible]

HAC TEST 527

NOV 30 81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO- 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
52	1100 1100	772.500	790.3	-0.2	0.0	14.6	788.8	1.5
53	1100 1011	788.125	804.0	-0.1	-0.1	13.8	804.7	-0.6
54	1100 1010	803.750	825.5	-0.0	-0.2	21.4	820.6	4.9
55	1100 1001	819.375	841.7	0.0	0.0	16.2	836.5	5.3
56	1100 1000	835.000	858.9	0.0	0.3	17.1	852.3	6.5
57	1100 0111	850.625	864.8	-0.0	-0.0	5.9	868.2	-3.5
58	1100 0110	866.250	884.0	-0.3	-0.2	19.2	884.1	-0.1
59	1100 0101	881.875	902.5	0.2	0.0	18.4	900.0	2.5
60	1100 0100	897.500	921.9	0.2	0.3	19.4	915.9	6.0
61	1100 0011	913.125	930.7	-0.0	0.0	8.8	931.7	-1.1
62	1100 0010	928.750	952.2	-0.2	-0.2	21.5	947.6	4.6
63	1100 0001	944.375	967.0	0.0	-0.0	14.8	963.5	3.5
64	1100 0000	960.000	976.0	0.2	0.3	9.0	979.4	-3.4
65	1011 1111	975.625	992.9	-0.1	-0.1	16.9	995.3	-2.3
66	1011 1110	991.250	1009.4	-0.2	0.0	16.5	1011.1	-1.7
67	1011 1101	1006.88	1030.8	-0.2	0.0	21.4	1027.0	3.7
68	1011 1100	1022.50	1045.1	-0.2	-0.3	14.3	1042.9	2.2
69	1011 1011	1038.13	1058.8	0.3	0.1	13.7	1058.8	0.0
70	1011 1010	1053.75	1081.0	0.1	0.3	22.2	1074.7	6.3
71	1011 1001	1069.38	1096.4	-0.1	-0.1	15.5	1090.5	5.9
72	1011 1000	1085.00	1106.0	-1.7	1.6	9.5	1106.4	-0.4
73	1011 0111	1100.63	1119.7	0.1	-0.1	13.7	1122.3	-2.6
74	1011 0110	1116.25	1138.3	0.3	0.2	18.5	1138.2	0.1
75	1011 0101	1131.88	1157.2	-0.0	0.0	18.9	1154.1	3.1
76	1011 0100	1147.50	1174.4	-0.4	-0.4	17.2	1169.9	4.5
77	1011 0011	1163.13	1185.4	0.0	0.3	11.0	1185.8	-0.4
78	1011 0010	1178.75	1209.7	0.2	0.2	24.3	1201.7	8.0

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 287

1981/11/30 12:13:28 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] A/D THRESHOLD TEST (BAND= 2, SENSOR=4) 80/30 [illegible]

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
79	1011 0001	1194.38	1221.7	0.0	0.0	12.0	1217.6	4.1
80	1011 0000	1210.00	1232.0	-0.1	-0.0	10.3	1233.5	-1.5
81	1010 1111	1225.63	1245.9	-0.5	-0.5	13.9	1249.3	-3.4
82	1010 1110	1241.25	1262.1	0.0	-0.2	16.2	1265.2	-3.1
83	1010 1101	1256.88	1283.2	0.1	0.1	21.0	1281.1	2.1
84	1010 1100	1272.50	1296.7	0.0	0.2	13.5	1297.0	-0.3
85	1010 1011	1288.13	1311.4	-0.1	0.2	14.7	1312.9	-1.5
86	1010 1010	1303.75	1333.2	-0.3	-0.3	21.7	1328.7	4.4
87	1010 1001	1319.38	1349.0	-0.0	-0.1	15.9	1344.6	4.4
88	1010 1000	1335.00	1363.5	0.3	0.3	14.5	1360.5	3.0
89	1010 0111	1350.63	1371.9	0.0	0.0	8.4	1376.4	-4.5
90	1010 0110	1366.25	1391.0	-0.2	-0.0	19.0	1392.3	-1.3
91	1010 0101	1381.88	1409.9	0.2	0.1	19.0	1408.2	1.8
92	1010 0100	1397.50	1430.1	-0.1	0.2	20.1	1424.0	6.1
93	1010 0011	1413.13	1437.7	0.1	0.0	7.6	1439.9	-2.2
94	1010 0010	1428.75	1459.1	-0.2	0.0	21.3	1455.8	3.3
95	1010 0001	1444.38	1474.0	1.3	1.1	14.9	1471.7	2.3
96	1010 0000	1460.00	1489.9	0.0	-0.3	15.9	1487.6	2.3
97	1001 1111	1475.63	1498.5	-0.1	-0.1	8.6	1503.4	-4.9
98	1001 1110	1491.25	1514.3	-0.1	0.2	15.7	1519.3	-5.1
99	1001 1101	1506.88	1536.3	-0.1	-0.1	22.0	1535.2	1.1
100	1001 1100	1522.50	1549.8	0.1	-1.6	13.5	1551.1	-2.3
101	1001 1011	1538.13	1564.7	0.0	0.0	15.9	1567.0	-2.3
102	1001 1010	1553.75	1585.1	0.2	0.2	20.4	1582.8	2.3
103	1001 1001	1569.38	1602.2	0.2	0.2	17.1	1598.7	3.5
104	1001 1000	1585.00	1617.0	-0.3	-0.4	14.8	1614.6	2.4

ORIGINAL PAGE IS OF POOR QUALITY

HS-2[illegible] THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 288
1981/11/30 12:13:28 FEMALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.3.5-1 A/D THRESHOLD TEST (BAND-- 2, SENSOR=4)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO: 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
105	1001 0111	1600.63	1625.4	0.0	-0.0	8.5	1630.5	-5.1
106	1001 0110	1616.25	1643.1	0.4	0.4	17.7	1646.4	-3.3
107	1001 0101	1631.88	1662.9	0.1	0.0	19.8	1662.2	0.7
108	1001 0100	1647.50	1679.4	-0.0	0.0	16.5	1678.1	1.3
109	1001 0011	1663.13	1691.0	0.0	-0.1	11.6	1694.0	-3.0
110	1001 0010	1678.75	1714.8	-0.1	-0.3	23.7	1709.9	4.9
111	1001 0001	1694.38	1728.2	0.5	0.0	13.4	1725.8	2.4
112	1001 0000	1710.00	1741.1	-0.0	0.3	12.9	1741.6	-0.6
113	1000 1111	1725.63	1750.8	-0.1	0.2	9.7	1757.5	-6.7
114	1000 1110	1741.25	1767.0	-0.2	-0.3	16.2	1773.4	-6.4
115	1000 1101	1756.88	1788.4	0.0	-0.2	21.4	1789.3	-0.9
116	1000 1100	1772.50	1801.6	0.1	0.1	13.2	1805.2	-3.6
117	1000 1011	1788.13	1816.7	-0.1	0.0	15.1	1821.0	-4.4
118	1000 1010	1803.75	1837.9	-0.3	-0.3	21.2	1836.9	0.9
119	1000 1001	1819.38	1854.4	-0.1	-0.2	16.5	1852.8	1.5
120	1000 1000	1835.00	1871.5	0.5	0.3	17.1	1868.7	2.8
121	1000 0111	1850.63	1877.1	0.1	0.1	5.6	1884.6	-7.5
122	1000 0110	1866.25	1895.6	-0.1	-0.0	18.5	1900.5	-4.9
123	1000 0101	1881.88	1914.9	-0.2	-0.3	19.3	1916.3	-1.4
124	1000 0100	1897.50	1932.9	0.0	-0.3	18.0	1932.2	0.7
125	1000 0011	1913.13	1943.1	-0.2	-0.0	10.1	1948.1	-5.0
126	1000 0010	1928.75	1966.9	-0.1	0.1	23.8	1964.0	3.0
127	1000 0001	1944.38	1980.7	-0.1	-0.1	13.8	1979.9	0.9
128	1000 0000	1960.00	1991.8	-0.4	-0.3	11.1	1995.7	-3.9
129	0111 1111	1975.63	2006.8	0.0	-0.0	14.9	2011.6	-4.9
130	0111 1110	1991.25	2023.8	0.4	0.3	17.1	2027.5	-3.7

ORIGINAL PAGE IS
OF POOR QUALITY

HS-224 THERMATIC MATRIX MUX UNIT TEST MODEL .. FLT. S/N 3 PAGE 289

1981/11/30 12:13:28 FINALITY TEST PERFORMANCE @ AMBIENT TEMP.

[illegible] CONDITIONED = 72 SETPOINT DEV.=40 > [illegible]

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	TOTAL VOLTAGE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO NOMINAL	LOWER	1:1 UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
131	0111 1101	2006.88	2046.5	-0.0	-2.1	22.6	2043.4	3.1
132	0111 1100	2022.50	2060.9	-0.2	-0.2	14.4	2059.3	1.6
133	0111 1011	2038.13	2072.8	-0.1	-0.0	11.9	2075.1	-2.4
134	0111 1010	2053.75	2095.4	0.3	0.3	22.6	2091.0	4.4
135	0111 1001	2069.38	2110.0	0.1	0.1	14.6	2106.9	3.1
136	0111 1000	2085.00	2125.3	-0.3	-0.0	15.3	2122.8	2.5
137	0111 0111	2100.63	2133.5	-0.1	-0.1	8.1	2136.7	-3.2
138	0111 0110	2116.25	2153.2	-0.0	-0.2	19.8	2154.5	-1.3
139	0111 0101	2131.88	2170.7	0.1	0.1	17.5	2170.4	0.3
140	0111 0100	2147.50	2189.1	0.1	0.1	18.4	2186.3	2.8
141	0111 0011	2163.13	2199.4	-0.1	-0.0	10.2	2202.2	-2.8
142	0111 0010	2178.75	2225.7	-0.3	-0.3	26.4	2218.1	7.7
143	0111 0001	2194.38	2235.8	0.0	0.1	10.1	2233.9	1.9
144	0111 0000	2210.00	2243.6	0.3	0.2	7.7	2249.8	-6.3
145	0110 1111	2225.63	2259.5	-0.1	0.0	16.0	2265.7	-6.2
146	0110 1110	2241.25	2277.0	-0.2	-0.3	17.5	2281.6	-4.6
147	0110 1101	2256.88	2299.2	0.0	0.0	22.2	2297.5	1.7
148	0110 1100	2272.50	2312.1	0.2	0.2	12.8	2313.3	-1.3
149	0110 1011	2288.13	2325.1	0.1	0.3	13.1	2329.2	-4.1
150	0110 1010	2303.75	2348.8	-0.3	-0.0	23.7	2345.1	3.7
151	0110 1001	2319.38	2362.8	-0.2	-0.1	13.9	2361.0	1.8
152	0110 1000	2335.00	2377.5	-0.0	-0.3	14.7	2376.9	0.7
153	0110 0111	2350.63	2386.0	0.1	-0.3	8.5	2392.8	-6.7
154	0110 0110	2366.25	2405.6	-0.1	0.2	19.6	2408.6	-3.0
155	0110 0101	2381.88	2423.3	0.2	0.2	17.6	2424.5	-1.2
156	0110 0100	2397.50	2446.1	-0.1	-0.1	22.8	2440.4	5.7
157	0110 0011	2413.13	2451.7	0.0	0.0	5.6	2456.3	-4.5

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) NOMINAL	LEVELS RATIO= 1 :1 LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
158	0110 0010	2478.75	2478.3	0.2	0.2	26.6	2472.2	6.2
159	0110 0001	2444.38	2488.9	-0.4	-0.8	10.6	2488.0	0.9
160	0110 0000	2460.00	2501.8	0.2	0.1	12.9	2503.9	-2.1
161	0101 1111	2475.63	2512.1	0.4	0.2	10.3	2519.8	-7.7
162	0101 1110	2491.25	2529.0	0.3	0.3	16.9	2535.7	-6.6
163	0101 1101	2506.88	2552.0	-1.3	-0.0	22.9	2551.6	0.4
164	0101 1100	2522.50	2567.4	-0.1	0.0	15.5	2567.4	0.0
165	0101 1011	2538.13	2578.5	-0.1	-0.2	11.0	2583.3	-4.8
166	0101 1010	2553.75	2602.3	-1.0	-0.3	23.3	2599.2	3.1
167	0101 1001	2569.38	2615.3	0.2	0.5	13.0	2615.1	0.2
168	0101 1000	2585.00	2626.9	-0.1	4.3	11.6	2631.0	-4.0
169	0101 0111	2600.63	2639.3	-0.2	-0.1	12.4	2646.8	-7.5
170	0101 0110	2616.25	2658.4	-0.2	-0.2	19.1	2662.7	-4.3
171	0101 0101	2631.88	2679.7	-0.1	0.1	21.2	2678.6	1.1
172	0101 0100	2647.50	2695.6	0.2	0.3	15.9	2694.5	1.1
173	0101 0011	2663.13	2705.0	0.0	0.1	9.4	2710.4	-5.4
174	0101 0010	2678.75	2731.1	-0.3	-0.2	26.1	2726.2	4.9
175	0101 0001	2694.38	2742.1	0.0	0.0	11.0	2742.1	-0.0
176	0101 0000	2710.00	2757.7	0.2	0.2	15.6	2758.0	-0.3
177	0100 1111	2725.63	2764.9	0.1	0.2	7.2	2773.9	-9.0
178	0100 1110	2741.25	2782.1	-0.3	0.1	17.2	2789.8	-7.7
179	0100 1101	2756.88	2804.6	0.1	0.2	22.5	2805.6	-1.0
180	0100 1100	2772.50	2817.5	0.0	-0.1	12.9	2821.5	-4.0
181	0100 1011	2788.13	2830.7	0.1	0.2	13.2	2837.4	-6.7
182	0100 1010	2803.75	2854.1	-0.0	0.3	23.4	2853.3	0.8
183	0100 1001	2819.38	2868.4	-0.2	-0.1	14.3	2869.2	-0.8

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27

US-23[illegible] THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 291

1981/11/30 12:13:28 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] A/D THRESHOLD TEST (BAND- 2 SENSOR-4)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
184	0100 1000	2[illegible].00	2888.1	0.4	-0.3	19.7	2885.1	3.0
185	0100 0111	[illegible]0.63	2891.8	-0.2	-0.3	3.7	2900.9	-9.1
186	0100 0110	[illegible]6.25	2911.0	0.1	0.1	19.2	2916.8	-5.8
187	0100 0101	2881.[illegible]8	2932.2	0.0	-0.1	21.2	2932.7	-0.5
188	0100 0100	2897.50	2953.1	-0.1	-0.2	20.9	2948.6	4.5
189	0100 0011	2913.13	2957.8	0.1	-0.3	4.7	2964.5	-6.7
190	0100 0010	2928.75	2984.2	0.0	0.2	26.4	2980.3	3.9
191	0100 0001	2944.38	2995.4	0.0	-0.1	11.1	2996.2	-0.9
192	0100 0000	2960.00	3006.1	-0.2	0.0	10.7	3012.1	-6.0
193	0011 1111	2975.63	3020.2	-0.4	-0.2	14.1	3028.0	-7.7
194	0011 1110	2991.25	3037.1	0.0	0.3	16.9	3043.9	-6.7
195	0011 1101	3006.88	3057.4	2.7	1.6	20.2	3059.7	-2.4
196	0011 1100	3022.50	3074.1	-0.1	0.2	16.7	3075.6	-1.5
197	0011 1011	3038.13	3086.2	-0.2	-0.2	12.1	3091.5	-5.3
198	0011 1010	3053.75	3109.7	0.0	0.6	23.5	3107.4	2.3
199	0011 1001	3069.38	3123.3	0.2	0.3	13.6	3123.3	0.1
200	0011 1000	3085.00	3139.2	-6.8	0.3	15.9	3139.1	0.1
201	0011 0111	3100.63	3147.3	-0.1	-0.0	8.0	3155.0	-7.8
202	0011 0110	3116.25	3166.7	-0.3	0.3	19.5	3170.9	-4.2
203	0011 0101	3131.88	3184.9	-0.1	-0.2	18.1	3186.8	1.9
204	0011 0100	3147.50	3204.0	0.1	0.3	19.1	3202.7	1.3
205	0011 0011	3163.13	3213.4	0.0	0.5	9.4	3218.5	-5.1
206	0011 0010	3178.75	3240.3	-0.4	-0.1	26.9	3234.4	5.9
207	0011 0001	3194.38	3250.1	-0.2	-0.1	9.7	3250.3	-0.3
208	0011 0000	3210.00	3260.4	0.1	0.1	10.4	3266.2	-5.8
209	0010 1111	3225.63	3274.2	0.2	0.2	13.8	3282.1	-7.8

ORIGINAL PAGE IS OF POOR QUALITY

HS 236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 292
1981/11/30 12:13:28 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

HAC TEST S27

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO- 1:1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
210	0010 1110	3241.25	3291.5	-0.0	0.3	17.2	3297.9	-6.5
211	0010 1101	3256.88	3312.1	-0.2	2.3	20.7	3313.8	-1.7
212	0010 1100	3272.50	3326.7	-0.2	-0.2	14.6	3329.7	-3.0
213	0010 1011	3288.13	3340.7	0.1	0.0	13.9	3345.6	-4.9
214	0010 1010	3303.75	3365.5	0.0	0.1	24.9	3361.5	4.1
215	0010 1001	3319.38	3378.5	-0.1	0.1	12.9	3377.4	1.1
216	0010 1000	3335.00	3396.1	-1.8	-1.8	17.6	3393.2	2.9
217	0010 0111	3350.63	3402.5	0.1	-0.3	6.4	3409.1	-6.6
218	0010 0110	3366.25	3421.5	0.1	0.3	19.0	3425.0	-3.5
219	0010 0101	3381.88	3443.2	-3.3	-3.2	21.6	3440.9	2.3
220	0010 0100	3397.50	3462.9	-0.4	0.0	19.7	3456.8	6.2
221	0010 0011	3413.13	3468.6	-0.3	-0.1	5.7	3472.6	-4.0
222	0010 0010	3428.75	3495.8	0.1	0.0	27.1	3488.5	7.2
223	0010 0001	3444.38	3505.0	0.2	0.4	9.2	3504.4	0.6
224	0010 0000	3460.00	3523.1	-0.2	0.3	18.1	3520.3	2.8
225	0001 1111	3475.63	3530.4	-0.3	0.1	7.3	3536.2	-5.7
226	0001 1110	3491.25	3547.0	-0.4	-0.3	16.6	3552.0	-5.0
227	0001 1101	3506.88	3570.5	-2.2	0.0	23.4	3567.9	2.6
228	0001 1100	3522.50	3585.3	0.1	0.0	14.8	3583.8	1.5
229	0001 1011	3538.13	3597.4	-0.3	-0.0	12.0	3599.7	-2.3
230	0001 1010	3553.75	3620.6	-1.0	-0.8	23.2	3615.6	5.0
231	0001 1001	3569.38	3635.1	-0.1	-0.1	14.5	3631.4	3.7
232	0001 1000	3585.00	3645.5	0.1	0.3	10.4	3647.3	-1.8
233	0001 0111	3600.63	3658.9	-0.1	-0.1	13.4	3663.2	-4.3
234	0001 0110	3616.25	3677.9	-0.4	0.2	18.9	3679.1	-1.2
235	0001 0101	3631.88	3700.0	-2.5	-0.2	22.1	3695.0	5.0
236	0001 0100	3647.50	3715.8	0.2	0.0	15.8	3710.8	5.0

ORIGINAL PAGE IS
OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 293

1981/11/30 12:13:28 LINEARITY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible]

HAC TEST 527

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO: 1:1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
237	0001 0011	3663.13	3725.8	0.1	0.2	9.9	3726.7	-1.0
238	0001 0010	3678.75	3751.8	-0.1	0.3	26.1	3742.6	9.2
239	0001 0001	3694.38	3763.6	-0.1	-0.6	11.8	3758.5	5.2
240	0001 0000	3710.00	3777.8	-0.4	-0.3	14.2	3774.4	3.5
241	0000 1111	3725.63	3787.0	0.1	0.2	9.1	3790.2	-3.3
242	0000 1110	3731.25	3803.7	0.1	0.2	16.7	3806.1	-2.5
243	0000 1101	3756.88	3825.3	1.7	0.3	21.6	3822.0	3.3
244	0000 1100	3772.50	3839.3	-0.2	0.1	14.0	3837.9	1.4
245	0000 1011	3788.13	3854.0	0.1	-0.1	14.7	3853.8	0.3
246	0000 1010	3803.75	3878.3	0.0	0.3	24.3	3869.6	8.7
247	0000 1001	3819.38	3894.9	-2.4	-2.4	16.6	3885.5	9.4
248	0000 1000	3835.00	3913.0	-0.3	0.0	18.1	3901.4	11.6
249	0000 0111	3850.63	3916.2	-0.1	0.1	3.2	3917.3	-1.1
250	0000 0110	3866.25	3935.0	-0.0	-0.0	18.8	3933.2	1.8
251	0000 0101	3881.88	3957.1	-0.1	3.1	22.1	3949.1	8.1
252	0000 0100	3897.50	3977.7	-0.2	0.1	20.5	3964.9	12.7
253	0000 0011	3913.13	3983.0	-0.0	-0.1	5.4	3980.8	2.2
254	0000 0010	3928.75	4010.2	-0.5	-0.2	27.1	3996.7	13.5
255	0000 0001	3944.38	4020.9	0.1	0.1	10.7	4012.6	8.3

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 294
1981/11/30 12:19:51 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
[illegible] A/D THRESHOLD TEST (BAND= 2, SENSOR=[illegible])
S U M M A R Y

CHECK 1) RMS ERROR, 2) THRESHOLD INCREMENT(+/- 0.0 -- THRH INC <= 31.2)
THE REMAINING DATA ARE FOR INFORMATION ONLY

[illegible] STRAIGHT LINE IS: Y =15.866X -34.6MV

DEVIATION OF SLOPE FROM IDEAL IS: 1.544%
OFFSET IS: 34.6MV
COEFFICIENT OF DETERMINATION IS: R**2= .99998660
ANALOG INPUT DURING DC RESTORE IS:64.4MV

RMS ERROR = 4.355MV REQMT: RMS ERROR <=7.812MV

THRESHOLD INCREMENT MEASUREMENT

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
27.8MV	190	15.932MV	3.6MV	249	5.147MV

LOWER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
0.6MV	152	-0.021MV	-0.7MV	190	.272MV

UPPER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
1.1MV	175	0.016MV	-0.8MV	4	.274MV

TEST PASSED

HAC TEST S27

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST 527

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	DATA VALUE (DV)	ANALOG INPUT VOLTAGE (DV) VOLTS RATIO 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
THE FOLLOWING DATA ARE FOR INFORMATION ONLY								
1	1111 1111	-24.375	-25.7	-0.1	0.1		-18.7	-7.0
2	1111 1110	8.250	-7.4	0.2	0.3	18.3	-2.8	-4.6
3	1111 1101	6.875	13.1	-0.4	0.0	20.5	13.0	0.1
4	1111 1100	22.500	25.8	-0.5	-0.8	12.7	28.9	-3.1
5	1111 1011	38.125	41.5	0.0	-1.2	15.7	44.8	-3.2
6	1111 1010	53.750	64.5	0.3	0.3	23.0	60.5	3.9
7	1111 1001	69.375	78.3	0.3	0.3	13.7	76.5	1.8
8	1111 1000	85.000	88.1	0.3	0.0	9.8	92.4	-4.3
9	1111 0111	100.625	102.7	-0.3	0.2	14.7	106.2	-5.5
10	1111 0110	116.250	123.1	0.3	0.0	20.4	124.1	-1.0
11	1111 0101	131.875	140.8	0.1	0.3	17.6	140.0	0.8
12	1111 0100	147.500	157.9	-0.1	0.3	17.1	155.8	2.1
13	1111 0011	163.125	169.6	-0.3	-0.2	11.7	171.7	-2.1
14	1111 0010	178.750	194.6	-0.2	-0.2	25.0	187.6	7.1
15	1111 0001	194.375	206.3	0.2	0.0	11.7	203.4	2.9
16	1111 0000	210.000	214.7	0.3	0.2	8.4	219.3	-4.6
17	1110 1111	225.625	230.0	-0.3	0.0	15.3	235.2	-5.2
18	1110 1110	241.250	248.4	-0.4	-0.3	18.4	251.0	-2.6
19	1110 1101	256.875	268.2	-0.1	0.3	19.8	266.9	1.4
20	1110 1100	272.500	282.6	0.2	0.3	14.3	282.8	-0.2
21	1110 1011	288.125	296.6	0.2	0.2	14.0	298.6	-2.0
22	1110 1010	303.750	319.3	-0.3	0.0	22.7	314.5	4.8
23	1110 1001	319.375	333.7	-0.1	0.0	14.4	330.3	3.3
24	1110 1000	335.000	348.8	0.1	-0.2	15.1	346.2	2.6
25	1110 0111	350.625	367.7	0.1	0.2	8.9	362.1	-4.3

ORIGINAL PAGE IS OF POOR QUALITY

US-296 THERMOCOUPLE MUX UNIT TEST MODEL FLT. S/N 3 PAGE 296
1981/11/30 12:20:04 FINALITY FULL PERFORMANCE @ AMBIENT TEMP.
[illegible] ENGINEERING [illegible] TEST CONDITION — [illegible] SENSITIVITY [illegible] NOV 30 81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= .1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
26	1110 0110	366.250	378.4	0.0	0.4	25.7	377.9	0.5
27	1110 0101	381.875	396.0	-0.4	-0.3	17.6	393.8	2.2
28	1110 0100	397.500	416.1	-0.4	-0.3	20.1	409.7	6.4
29	1110 0011	413.125	424.3	0.2	0.0	8.2	425.5	-1.2
30	1110 0010	428.750	449.2	0.1	0.2	24.9	441.4	7.8
31	1110 0001	444.375	461.5	-0.3	0.0	12.2	457.3	4.2
32	1110 0000	460.000	470.4	-0.2	-0.2	9.0	473.1	-2.7
33	1101 1111	475.625	485.4	0.0	-0.2	15.0	489.0	-3.6
34	1101 1110	491.250	502.8	0.3	0.3	17.3	504.9	-2.1
35	1101 1101	506.875	523.2	0.3	0.3	20.4	520.7	2.4
36	1101 1100	522.500	535.4	-0.3	-0.0	12.2	536.6	-1.2
37	1101 1011	538.125	552.0	-0.2	-0.1	16.6	552.5	-0.4
38	1101 1010	553.750	574.5	0.3	0.1	22.5	568.3	6.2
39	1101 1001	569.375	588.8	0.2	0.3	14.3	584.2	4.6
40	1101 1000	585.000	600.3	0.0	0.3	11.5	600.1	0.2
41	1101 0111	600.625	613.1	-0.2	-0.2	12.8	615.9	-2.9
42	1101 0110	616.250	633.0	-0.3	-0.2	19.9	631.8	1.2
43	1101 0101	631.875	650.6	0.2	0.0	17.6	647.7	2.9
44	1101 0100	647.500	668.4	0.0	-0.2	17.8	663.5	4.9
45	1101 0011	663.125	679.4	-0.2	0.0	11.0	679.4	-0.0
46	1101 0010	678.750	703.9	-0.3	-0.3	24.5	695.3	8.7
47	1101 0001	694.375	715.1	0.0	-0.2	12.2	711.1	5.0
48	1101 0000	710.000	728.2	0.2	0.2	13.0	727.0	1.2
49	1100 1111	725.625	739.3	0.3	0.3	11.1	742.9	-3.6
50	1100 1110	741.250	757.2	-0.4	-0.2	18.0	758.7	-1.5
51	1100 1101	756.875	777.2	-0.3	-0.2	20.0	774.6	2.6

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST 527

S-2[illegible] THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 297
[illegible]/30 12:20:04 PENALTY FULL PERFORMANCE @ AMBIEN. TEMP.
[illegible] THRESHOLD TEST [illegible] SENSOR=[illegible]

HAC TEST S27

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
52	1100 1100	772.500	791.4	0.3	0.0	14.2	790.5	0.9
53	1100 1011	788.125	805.6	0.2	0.2	14.1	806.3	-0.8
54	1100 1010	803.750	827.3	0.0	0.3	21.7	822.2	5.1
55	1100 1001	819.375	842.6	-0.0	-0.1	15.3	838.1	4.5
56	1100 1000	835.000	859.8	-0.3	-0.4	17.2	853.9	5.9
57	1100 0111	850.625	866.2	0.2	0.0	6.4	869.8	-3.6
58	1100 0110	866.250	886.2	0.3	0.4	20.0	885.7	0.5
59	1100 0101	881.875	904.0	-0.4	0.0	17.8	901.5	2.5
60	1100 0100	897.500	923.5	-0.3	-0.4	19.5	917.4	6.1
61	1100 0011	913.125	932.4	0.0	-0.2	8.9	933.3	-0.9
62	1100 0010	928.750	956.8	0.2	0.1	24.4	949.1	7.6
63	1100 0001	944.375	968.7	0.3	0.3	11.9	965.0	3.7
64	1100 0000	960.000	977.4	-0.2	0.0	8.7	980.9	-3.5
65	1011 1111	975.625	994.3	-0.3	-0.2	16.9	996.7	-2.5
66	1011 1110	991.250	1011.3	0.3	0.1	17.0	1012.6	-1.3
67	1011 1101	1006.88	1032.0	0.2	0.2	20.7	1028.5	3.5
68	1011 1100	1022.50	1043.2	0.0	0.5	11.2	1044.3	-1.1
69	1011 1011	1038.13	1060.4	-0.2	-0.3	17.2	1060.2	0.2
70	1011 1010	1053.75	1083.3	-0.4	-0.6	22.9	1076.1	7.2
71	1011 1001	1069.38	1097.9	0.2	-0.0	14.5	1091.9	5.9
72	1011 1000	1085.00	1105.3	0.3	0.4	7.4	1107.8	-2.5
73	1011 0111	1100.63	1120.9	-0.2	0.0	15.6	1123.7	-2.7
74	1011 0110	1116.25	1140.7	-0.3	0.3	19.7	1139.5	1.1
75	1011 0101	1131.88	1158.9	-0.0	-0.3	18.2	1155.4	3.5
76	1011 0100	1147.50	1174.6	0.1	0.1	15.7	1171.3	3.3
77	1011 0011	1163.13	1186.7	0.3	0.3	12.1	1187.1	-0.5
78	1011 0010	1178.75	1211.8	-0.3	-0.0	25.1	1203.0	8.8

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST 527

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	TRUE VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO NOMINAL	LOWER	1 :1 UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
77	1011 0001	1194.38	1223.4	-0.2	-0.2	11.6	1218.9	4.5
78	1011 0000	1210.00	1233.3	0.3	-0.0	9.9	1234.7	-1.5
81	1010 1111	1225.63	1246.6	0.2	0.3	13.3	1250.6	-4.0
82	1010 1110	1241.25	1264.2	-0.1	0.2	17.5	1266.5	-2.3
83	1010 1101	1256.88	1284.7	-0.3	-0.4	20.6	1282.3	2.4
84	1010 1100	1272.50	1298.0	-0.3	-0.2	13.3	1298.2	-0.2
85	1010 1011	1288.13	1312.5	0.3	0.0	14.5	1314.1	-1.5
86	1010 1010	1303.75	1334.4	0.3	0.3	21.8	1329.9	4.5
87	1010 1001	1319.38	1350.4	-0.4	-0.1	16.0	1345.8	4.6
88	1010 1000	1335.00	1364.8	-0.4	-0.4	14.4	1361.7	3.2
89	1010 0111	1350.63	1373.4	-0.1	-0.4	8.6	1377.5	-4.1
90	1010 0110	1366.25	1392.8	0.4	0.3	19.4	1393.4	-0.6
91	1010 0101	1381.88	1410.6	0.3	0.3	17.8	1409.3	1.4
92	1010 0100	1397.50	1429.4	-0.5	-0.1	18.8	1425.1	4.3
93	1010 0011	1413.13	1439.1	-0.3	-0.2	9.7	1441.0	-1.9
94	1010 0010	1428.75	1464.1	0.3	-0.1	25.0	1456.9	7.2
95	1010 0001	1444.38	1475.3	0.3	0.4	11.2	1472.7	2.5
96	1010 0000	1460.00	1490.4	0.3	0.3	15.1	1488.6	1.8
97	1001 1111	1475.63	1429.6	-0.3	-0.3	9.2	1504.5	-4.8
98	1001 1110	1491.25	1516.3	-0.3	-0.3	16.7	1520.3	-4.0
99	1001 1101	1506.88	1536.9	0.3	0.0	20.5	1536.2	0.7
100	1001 1100	1522.50	1547.6	0.3	0.2	16.7	1552.1	-4.5
101	1001 1011	1538.13	1565.6	-0.1	-0.0	18.0	1567.9	-2.3
102	1001 1010	1553.75	1587.6	-0.2	0.2	22.0	1583.8	3.8
103	1001 1001	1569.38	1603.1	-0.1	-0.4	15.5	1599.7	3.5
104	1001 1000	1585.00	1612.4	0.3	0.3	9.3	1615.5	-3.1

ORIGINAL PAGE IS OF POOR QUALITY

[illegible]	A/D OUTPUT [illegible]	[illegible]	EQUALOC INPUT VOLTAGE (MV) LEVELS RATIO NOMINAL	LOWER	1:1 UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
105	1001 0111	1600.63	1625.8	0.2	0.3	13.3	1631.4	-5.6
106	1001 0110	1616.25	1645.2	-0.5	-0.0	19.4	1647.3	-2.1
107	1001 0101	1651.98	1663.6	-0.3	-0.3	18.4	1663.1	0.5
108	1001 0100	1647.50	1680.2	0.2	-0.1	16.6	1679.0	1.2
109	1001 0011	1662.13	1691.6	0.3	0.3	11.4	1694.9	-3.2
110	1001 0010	1678.75	1715.9	-0.0	0.2	24.3	1710.7	5.2
111	1001 0001	1694.38	1729.2	-0.3	-0.3	13.2	1726.6	2.6
112	1001 0000	1710.00	1742.1	-0.2	0.2	12.9	1742.5	-0.4
113	1000 1111	1725.63	1751.6	0.2	0.1	9.5	1758.3	-6.7
114	1000 1110	1741.25	1768.4	0.4	0.4	16.8	1774.2	-5.8
115	1000 1101	1756.88	1789.3	0.5	0.0	20.9	1790.0	-0.8
116	1000 1100	1772.50	1802.4	-0.2	-0.2	13.1	1805.9	-3.5
117	1000 1011	1788.13	1817.6	0.0	-0.2	15.2	1821.8	4.2
118	1000 1010	1803.75	1838.7	0.3	0.3	21.1	1837.6	1.1
119	1000 1001	1819.38	1854.8	0.2	0.2	16.1	1853.5	1.3
120	1000 1000	1835.00	1872.3	-0.2	-0.1	17.5	1869.4	2.9
121	1000 0111	1850.63	1878.2	0.5	0.3	5.9	1885.2	-7.0
122	1000 0110	1866.25	1897.1	0.2	-0.1	18.9	1901.1	-4.0
123	1000 0101	1881.88	1915.3	0.2	0.2	18.2	1917.0	-1.7
124	1000 0100	1897.50	1933.2	-0.5	0.4	17.0	1932.8	0.4
125	1000 0011	1913.13	1943.8	-0.2	0.2	10.5	1948.7	-4.9
126	1000 0010	1928.75	1968.7	-0.3	0.4	20.9	1964.6	4.1
127	1000 0001	1944.38	1980.6	-0.5	0.3	11.8	1980.4	0.1
128	1000 0000	1960.00	1991.9	0.1	0.1	11.3	1996.3	-4.4
129	0111 1111	1975.63	2007.0	-0.2	0.1	15.1	2012.2	-5.2
130	0111 1110	1991.25	2025.5	-0.3	-0.3	18.5	2028.0	-2.5

ORIGINAL PAGE IS
OF POOR QUALITY

IS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 300
1981/11/30 12:20:04 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.3.5-8 A/D THRESHOLD TEST (BAND= 2, SENSOR=5)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO- 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
131	0111 1101	2006.88	2044.9	0.0	-0.2	19.4	2043.9	1.0
132	0111 1100	2022.50	2061.8	0.3	0.2	16.9	2059.8	2.0
133	0111 1011	2038.13	2072.8	0.3	0.3	11.0	2075.6	-2.8
134	0111 1010	2053.75	2098.2	-0.4	-0.1	25.4	2091.5	6.7
135	0111 1001	2069.38	2110.2	-0.3	0.2	11.9	2107.4	2.8
136	0111 1000	2085.00	2119.0	0.4	0.0	8.9	2123.2	-4.2
137	0111 0111	2100.63	2133.4	0.2	0.3	14.4	2139.1	-5.7
138	0111 0110	2116.25	2154.1	0.0	0.5	20.7	2155.0	-0.9
139	0111 0101	2131.88	2171.5	-0.2	-0.2	17.3	2170.8	0.6
140	0111 0100	2147.50	2190.4	-0.2	-0.2	18.9	2186.7	3.7
141	0111 0011	2163.13	2199.3	0.3	0.0	8.9	2202.6	-3.3
142	0111 0010	2178.75	2226.4	0.4	0.4	27.1	2218.4	7.9
143	0111 0001	2194.38	2236.1	-0.3	0.1	9.7	2234.3	1.8
144	0111 0000	2210.00	2243.9	-0.2	-0.1	7.8	2250.2	-6.3
145	0110 1111	2225.63	2259.7	-0.1	-0.3	15.9	2266.0	-6.3
146	0110 1110	2241.25	2277.8	0.5	0.4	18.0	2281.9	-4.1
147	0110 1101	2256.88	2297.3	0.2	0.2	19.5	2297.8	-0.5
148	0110 1100	2272.50	2312.4	-0.2	0.1	15.1	2313.6	-1.3
149	0110 1011	2288.13	2325.5	-0.2	-0.2	13.2	2329.5	-4.0
150	0110 1010	2303.75	2349.6	0.3	0.0	24.0	2345.4	4.2
151	0110 1001	2319.38	2363.0	0.2	0.2	13.4	2361.2	1.8
152	0110 1000	2335.00	2378.2	0.6	-0.0	15.1	2377.1	1.1
153	0110 0111	2350.63	2386.1	-0.2	-0.2	7.9	2393.0	-6.9
154	0110 0110	2366.25	2406.9	-0.3	-0.3	20.8	2408.8	-1.9
155	0110 0101	2381.88	2423.7	0.2	0.0	16.8	2424.7	-1.0
156	0110 0100	2397.50	2446.4	0.2	0.2	22.7	2440.6	5.8
157	0110 0011	2413.13	2451.9	-0.3	0.1	5.5	2456.4	-4.5

ORIGINAL PAGE IS
OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 301

1981/11/30 12:20:04 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] THRESHOLD TEST (BAND= 2, SENSOR=5,) NOV 30 '81

HAC TEST S27

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO- 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
158	0110 0010	2428.75	2479.6	-0.3	-0.3	27.7	2472.3	7.3
159	0110 0001	2444.38	2488.3	0.0	-0.2	8.7	2488.2	0.1
160	0110 0000	2460.00	2501.3	0.2	0.2	13.0	2504.0	-2.8
161	0101 1111	2475.63	2512.4	0.2	0.2	11.1	2519.9	-7.5
162	0101 1110	2491.25	2530.8	-0.3	-0.3	18.4	2535.8	-4.9
163	0101 1101	2506.88	2550.5	-0.3	-0.2	19.7	2551.6	-1.1
164	0101 1100	2522.50	2562.5	0.3	-0.1	11.9	2567.5	-5.0
165	0101 1011	2538.13	2578.3	0.2	0.2	15.8	2583.4	-5.1
166	0101 1010	2553.75	2602.9	-0.1	0.2	24.6	2599.2	3.7
167	0101 1001	2569.38	2616.4	-0.3	0.3	13.5	2615.1	1.3
168	0101 1000	2585.00	2626.8	-0.3	-0.3	10.4	2631.0	-4.2
169	0101 0111	2600.63	2639.0	0.1	0.4	12.2	2646.8	-7.8
170	0101 0110	2616.25	2659.0	0.4	0.4	20.0	2662.7	-3.7
171	0101 0101	2631.88	2677.0	0.3	-0.0	18.0	2678.6	-1.5
172	0101 0100	2647.50	2696.2	-0.3	-0.2	19.1	2694.4	1.7
173	0101 0011	2663.13	2704.9	0.0	-0.3	8.8	2710.3	-5.4
174	0101 0010	2678.75	2731.4	0.3	0.3	26.5	2726.2	5.2
175	0101 0001	2694.38	2741.3	0.3	0.1	9.8	2742.0	-0.8
176	0101 0000	2710.00	2753.5	-0.4	-0.4	12.2	2757.9	-4.4
177	0100 1111	2725.63	2765.1	-0.2	-0.2	11.6	2773.8	-8.7
178	0100 1110	2741.25	2782.8	0.4	0.0	17.6	2789.6	-6.9
179	0100 1101	2756.88	2802.7	0.3	0.3	19.9	2805.5	-2.8
180	0100 1100	2772.50	2817.2	0.0	0.4	14.5	2821.4	-4.1
181	0100 1011	2788.13	2831.0	-0.3	-0.2	13.8	2837.2	-6.2
182	0100 1010	2803.75	2854.9	-0.4	-0.3	23.9	2853.1	1.8
183	0100 1001	2819.38	2868.7	0.3	0.4	13.8	2869.0	-0.2

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 302
1981/11/30 12:20:04 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.1.3.5-8 A/D THRESHOLD TEST (BAND= 2, SENSOR=5)

HAC TEST 327

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
184	0100 1000	2835.00	2887.6	0.2	0.3	18.9	2884.8	2.8
185	0100 0111	2850.63	2891.8	-0.2	0.0	4.1	2900.7	-3.9
186	0100 0110	2866.25	2912.1	-0.4	-0.3	20.3	2916.6	-4.4
187	0100 0101	2881.88	2929.6	-0.0	-0.3	17.5	2932.4	-2.8
188	0100 0100	2897.50	2949.0	0.4	0.3	19.3	2948.3	0.7
189	0100 0011	2913.13	2957.3	0.4	0.3	8.3	2964.2	-6.8
190	0100 0010	2928.75	2985.1	-0.7	-0.4	27.8	2980.0	5.1
191	0100 0001	2944.38	2994.5	-0.1	0.4	9.4	2995.9	-1.4
192	0100 0000	2960.00	3005.3	0.3	0.1	10.8	3011.8	-6.5
193	0011 1111	2975.63	3019.7	0.1	0.3	14.4	3027.6	-7.9
194	0011 1110	2991.25	3038.5	-0.2	0.4	18.7	3043.5	-5.0
195	0011 1101	3006.88	3057.9	-0.3	-0.3	19.5	3059.4	-1.4
196	0011 1100	3022.50	3074.3	-0.0	-0.3	16.3	3075.2	-0.9
197	0011 1011	3038.13	3085.9	0.2	0.4	11.6	3091.1	-5.2
198	0011 1010	3053.75	3110.7	0.3	0.3	24.8	3107.0	3.7
199	0011 1001	3069.38	3124.2	-0.3	0.1	13.5	3122.8	1.4
200	0011 1000	3085.00	3132.1	-0.4	-0.3	7.9	3138.7	-6.6
201	0011 0111	3100.63	3147.3	0.0	-0.3	15.2	3154.6	-7.3
202	0011 0110	3116.25	3167.2	0.4	0.4	19.9	3170.4	-3.3
203	0011 0101	3131.88	3185.0	-0.1	0.3	17.8	3186.3	-1.3
204	0011 0100	3147.50	3203.7	-0.4	-0.3	18.7	3202.2	1.5
205	0011 0011	3163.13	3213.5	-0.3	-0.1	9.8	3218.0	-4.6
206	0011 0010	3178.75	3240.2	0.3	0.0	26.7	3233.9	6.3
207	0011 0001	3194.38	3250.1	0.4	0.2	9.9	3249.7	0.4
208	0011 0000	3210.00	3260.7	0.0	0.3	10.6	3265.6	-4.9
209	0010 1111	3225.63	3274.3	-0.2	-0.3	13.7	3281.5	-7.1

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST 327

NOV 30 '81

INPUT CODE NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) NOMINAL	TRUE-TO RATIO- LOWER	1.31 UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
210	0010 1110	3241.25	3292.3	0.1	-0.4	18.0	3297.3	-5.0
211	0010 1101	3256.88	3312.0	0.3	0.3	19.7	3313.2	-1.2
212	0010 1100	3272.50	3326.0	0.3	0.3	14.0	3329.1	-3.0
213	0010 1011	3288.13	3340.7	-0.4	-0.0	14.7	3344.9	-4.2
214	0010 1010	3303.75	3365.1	0.3	-0.2	24.3	3360.8	4.3
215	0010 1001	3319.38	3378.9	0.0	-0.3	13.8	3376.7	2.2
216	0010 1000	3335.00	3395.0	0.4	0.4	16.1	3392.5	2.5
217	0010 0111	3350.63	3401.7	-0.0	0.3	6.6	3408.4	-6.7
218	0010 0110	3366.25	3422.5	-0.5	-0.4	20.8	3424.3	-1.8
219	0010 0101	3381.88	3440.2	-0.4	-0.3	17.7	3440.1	0.0
220	0010 0100	3397.50	3462.2	0.2	0.1	22.1	3456.0	6.2
221	0010 0011	3413.13	3468.2	0.1	0.2	6.0	3471.9	-3.7
222	0010 0010	3428.75	3496.0	-0.2	0.3	27.7	3487.7	8.2
223	0010 0001	3444.38	3505.5	-0.0	-0.1	9.5	3503.6	1.8
224	0010 0000	3460.00	3522.6	-0.0	0.3	17.2	3519.5	3.2
225	0001 1111	3475.63	3529.8	0.3	0.3	7.1	3535.3	-5.6
226	0001 1110	3491.25	3547.9	0.3	0.6	18.1	3551.2	-3.3
227	0001 1101	3506.88	3568.3	-0.4	0.0	20.4	3567.1	1.2
228	0001 1100	3522.50	3579.7	-0.3	-0.2	11.4	3582.9	-3.2
229	0001 1011	3538.13	3596.9	-0.0	-0.3	17.2	3598.8	-1.9
230	0001 1010	3553.75	3621.1	0.4	0.2	24.2	3614.7	6.4
231	0001 1001	3569.38	3635.0	-0.1	0.4	13.9	3630.5	4.4
232	0001 1000	3585.00	3645.0	-0.4	-0.1	10.0	3646.4	-1.4
233	0001 0111	3600.63	3658.5	-0.4	-0.3	13.5	3662.3	-3.7
234	0001 0110	3616.25	3678.3	0.2	0.0	19.7	3678.1	0.1
235	0001 0101	3631.88	3696.6	0.1	0.3	18.3	3694.0	2.6
236	0001 0100	3647.50	3715.4	-0.1	0.3	18.8	3709.9	5.5

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 304
981/11/30 12:20:04 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
[illegible] A/D THRESHOLD TEST (BAND= 2, SENSOR=5) [illegible]

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) NOMINAL	LEVELS RATIO- LOWER	L :1 UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
237	0001 0011	3663.13	3725.3	-0.2	-0.2	9.9	3725.7	-0.4
238	0001 0010	3678.75	3752.0	-0.2	-0.3	26.7	3741.6	10.4
239	0001 0001	3694.38	3762.8	-0.1	0.7	10.8	3757.5	5.3
240	0001 0000	3710.00	3776.2	0.4	0.3	13.4	3773.3	2.9
241	0000 1111	3725.63	3786.7	-0.4	0.0	10.5	3789.2	-2.5
242	0000 1110	3741.25	3805.6	-0.6	-0.5	18.9	3805.1	0.5
243	0000 1101	3756.88	3824.9	-0.1	-0.3	19.3	3820.9	4.0
244	0000 1100	3772.50	3838.4	0.2	0.4	13.5	3836.8	1.6
245	0000 1011	3788.13	3853.3	-0.0	0.4	14.8	3852.7	0.6
246	0000 1010	3803.75	3878.3	-0.3	-0.3	25.0	3868.5	9.8
247	0000 1001	3819.38	3892.2	-0.4	-0.3	13.9	3884.4	7.8
248	0000 1000	3835.00	3911.5	0.3	0.0	19.3	3900.3	11.3
249	0000 0111	3850.63	3915.2	0.3	0.3	3.6	3916.1	-1.0
250	0000 0110	3866.25	3935.3	-0.2	0.4	20.1	3932.0	3.3
251	0000 0101	3881.88	3953.9	-0.4	-0.2	13.6	3947.9	6.0
252	0000 0100	3897.50	3973.1	0.1	-0.6	19.2	3963.7	9.4
253	0000 0011	3913.13	3982.3	0.2	0.4	9.2	3979.6	2.7
254	0000 0010	3928.75	4009.8	0.1	0.3	27.5	3995.5	14.3
255	0000 0001	3944.38	4021.0	-0.4	0.0	11.2	4011.3	9.7

ORIGINAL PAGE IS
OF POOR QUALITY

HS 2[illegible] THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 305
1981/[illegible]/30 12:26:27 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
[illegible]

HAC TEST 527

NOV 30 '81

HEEK 1) RMS ERROR, 2) THRESHOLD INCREMENT(+/- 0.0 -- THRH INC <- 31.2)
HE REMAINING DATA ARE FOR INFORMATION ONLY

[illegible] -15.898X -40.6MV

DEVIATION OF SLOPE FROM IDEAL IS: 1.696%
OFFSET IS:-40.6MV
COEFFICIENT OF DETERMINATION IS: R**2= .99998520
AVERAGE INPUT DURING DC RESTORE IS:64.[illegible]MV

[illegible] RMS ERROR <-7.812MV

[illegible]

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
[illegible]3.3MV	[illegible]	15.951MV	2.[illegible]MV	239	5.559MV

[illegible]

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
[illegible]	13[illegible]	-0.024MV	1.4MV	[illegible]50	.386MV

[illegible]

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
6.2MV	222	0.034MV	-1.3MV	[illegible]50	.494MV

TEST PASSED

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) NOMINAL	LEVELS RATIO LOWER	1:1 UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
THE FOLLOWING DATA ARE FOR INFORMATION ONLY								
1	1111 1111	-24.375	-32.0	-0.9	0.5		-24.7	-7.4
2	1111 1110	-8.750	-13.8	0.3	0.3	18.2	-8.8	-5.1
3	1111 1101	6.875	6.9	-0.2	-0.1	20.7	7.1	-0.2
4	1111 1100	22.500	20.1	-0.4	-0.8	13.2	23.0	-2.9
5	1111 1011	38.125	35.2	0.1	0.0	15.1	38.9	-3.7
6	1111 1010	53.750	58.4	0.3	0.4	23.2	54.8	3.6
7	1111 1001	69.375	72.4	-0.1	0.1	14.0	70.7	1.7
8	1111 1000	85.000	85.7	-0.4	-0.3	13.3	86.6	-0.8
9	1111 0111	100.625	96.7	-0.1	-0.2	10.9	102.5	-5.8
10	1111 0110	116.250	116.9	0.2	0.3	20.2	118.3	-1.5
11	1111 0101	131.875	134.4	0.4	0.5	17.5	134.2	0.2
12	1111 0100	147.500	152.7	-0.2	0.0	18.2	150.1	2.6
13	1111 0011	163.125	163.6	-0.2	0.2	10.9	166.0	-2.4
14	1111 0010	178.750	189.5	-0.1	-0.2	25.9	181.9	7.6
15	1111 0001	194.375	200.5	0.1	0.2	11.0	197.8	2.7
16	1111 0000	210.000	210.2	0.2	0.3	9.7	213.7	-3.5
17	1110 1111	225.625	224.2	-0.2	-0.1	14.0	229.6	-5.4
18	1110 1110	241.250	242.3	0.2	0.2	18.1	245.5	-3.1
19	1110 1101	256.875	262.5	0.0	0.0	20.2	261.4	1.1
20	1110 1100	272.500	277.2	0.1	0.2	14.7	277.2	0.0
21	1110 1011	288.125	290.8	-0.1	0.1	13.6	293.1	-2.3
22	1110 1010	303.750	314.1	-0.2	-0.2	23.3	309.0	5.1
23	1110 1001	319.375	328.0	-0.1	-0.1	13.9	324.9	3.1
24	1110 1000	335.000	344.4	0.4	0.8	16.4	340.8	3.6
25	1110 0111	350.625	352.1	0.1	0.1	7.6	356.7	-4.6

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27

RA 30 '81

MUX SEQ NO.	A/D OUTPUT THRESHOLD	DIGITAL VALUE (CNT)	ANALOG INPUT VOLTAGE (MV) NOMINAL	LEVELS RATIO-TRACK	1:31 RATIO-TRACK	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
26	1110 0110	366.250	372.8	-0.3	0.1	20.8	372.6	0.3
27	1110 0101	381.875	390.7	-0.4	-0.2	17.8	388.5	2.2
28	1110 0100	397.500	411.2	-0.9	-0.2	20.6	404.4	6.9
29	1110 0011	413.125	418.7	0.1	0.2	7.5	420.3	-1.5
30	1110 0010	428.750	444.8	-0.1	0.2	26.0	436.1	8.6
31	1110 0001	444.375	455.9	-0.2	0.1	11.1	452.0	3.8
32	1110 0000	460.000	467.8	-0.2	0.1	9.9	467.9	-2.1
33	1101 1111	475.625	479.8	0.1	1.0	14.0	483.8	-4.0
34	1101 1110	491.250	497.1	0.2	0.2	17.3	499.7	-2.6
35	1101 1101	506.875	518.2	-0.1	0.2	21.1	515.6	2.7
36	1101 1100	522.500	530.3	-0.3	0.2	12.1	531.[illegible]	1.1
37	1101 1011	538.125	546.6	-0.0	0.0	16.2	547.4	-0.8
38	1101 1010	553.750	569.0	0.3	0.4	22.4	563.3	5.8
39	1101 1001	569.375	58[illegible].5	0.1	0.2	13.4	579.2	4.3
40	1101 1000	585.000	596.4	-0.3	0.0	12.2	592.0	1.4
41	1101 0111	600.625	607.8	-0.2	-0.1	11.3	610.9	-3.2
42	1101 0110	616.250	627.5	0.1	0.3	19.8	626.8	0.7
43	1101 0101	631.875	646.0	0.1	0.1	18.4	643.7	2.3
44	1101 0100	647.500	662.9	0.0	0.5	16.9	658.6	4.1
45	1101 0011	663.125	674.2	-0.1	0.1	11.3	674.5	-0.3
46	1101 0010	678.750	699.5	-0.3	0.2	25.3	690.4	9.1
47	1101 0001	694.375	710.9	0.0	0.0	11.5	706.3	4.7
48	1101 0000	710.000	723.9	0.3	0.4	13.0	722.2	1.7
49	1100 1111	725.625	734.3	0.0	0.2	10.4	738.1	-3.8
50	1100 1110	741.250	751.9	0.2	0.3	17.6	751.9	-2.0
51	1100 1101	756.875	772.6	-0.0	-0.2	20.7	769.8	2.8

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	TOTAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
52	1100 1100	772.500	786.9	0.1	0.1	14.3	785.7	1.2
53	1100 1011	788.125	800.6	0.1	0.2	13.7	801.6	-1.0
54	1100 1010	803.750	823.2	-0.2	0.0	22.6	817.5	5.7
55	1100 1001	819.375	837.5	-0.2	-0.1	14.3	833.4	4.1
56	1100 1000	835.000	856.7	-0.0	-0.3	19.2	849.3	7.4
57	1100 0111	850.625	861.4	0.1	0.1	4.6	865.2	-3.8
58	1100 0110	866.250	881.1	0.0	0.3	19.7	881.1	-0.0
59	1100 0101	881.875	899.7	-0.2	-0.2	18.6	897.0	2.7
60	1100 0100	897.500	919.5	-0.2	-0.3	19.9	912.8	6.7
61	1100 0011	913.125	927.4	0.1	0.0	7.8	928.7	-1.4
62	1100 0010	928.750	952.8	0.1	0.1	25.4	944.6	8.2
63	1100 0001	944.375	964.0	0.0	0.1	11.2	960.5	3.5
64	1100 0000	960.000	972.0	-0.2	-0.2	8.0	976.4	-4.4
65	1011 1111	975.625	989.6	-0.0	-0.2	17.6	992.3	-2.7
66	1011 1110	991.250	1006.5	0.2	0.3	16.9	1008.2	-1.7
67	1011 1101	1006.88	1027.6	0.2	0.2	21.0	1024.1	3.5
68	1011 1100	1022.50	1039.5	-0.3	0.0	11.9	1040.0	-0.5
69	1011 1011	1038.13	1055.8	-0.2	-0.2	16.3	1055.9	-0.1
70	1011 1010	1053.75	1078.5	-0.0	-0.4	22.7	1071.7	6.7
71	1011 1001	1069.38	1092.3	0.2	0.1	13.8	1087.6	4.6
72	1011 1000	1085.00	1101.8	2.8	3.1	9.5	1103.5	-1.7
73	1011 0111	1100.63	1116.4	-0.2	-0.2	14.6	1119.4	-3.0
74	1011 0110	1116.25	1136.0	-0.3	-0.3	19.5	1135.3	0.7
75	1011 0101	1131.88	1154.4	0.3	-0.0	18.4	1151.2	3.2
76	1011 0100	1147.50	1170.3	0.2	0.3	15.9	1167.1	3.2
77	1011 0011	1163.13	1182.3	0.0	0.1	12.0	1183.0	-0.6
78	1011 0010	1178.75	1207.9	-0.2	-0.3	25.5	1198.9	9.0

ORIGINAL PAGE IS OF POOR QUALITY

HS-23[illegible] THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 309
1981/[illegible]/30 12:26:41 LINEARITY FULL PERFORMANCE @ AMBIENT TEMP.
[illegible] THRESHOLD TEST (BAND= 2 SENSOR=4)

HAC TEST S27

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO NOMINAL	LOWER	1 :1 UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
79	1011 0001	1194.38	1219.0	-0.0	-0.1	11.1	1214.8	4.2
80	1011 0000	1210.00	1229.8	0.2	0.1	10.8	1230.6	-0.8
81	1010 1111	1225.63	1242.4	0.1	0.1	12.6	1246.5	-4.1
82	1010 1110	1241.25	1259.7	-0.2	0.0	17.3	1262.4	-2.7
83	1010 1101	1256.88	1280.6	-0.2	-0.2	20.8	1278.3	2.3
84	1010 1100	1272.50	1294.1	-0.0	-0.2	13.5	1294.2	-0.1
85	1010 1011	1288.13	1308.3	0.2	0.2	14.2	1310.1	-1.8
86	1010 1010	1303.75	1331.5	0.1	0.4	23.2	1326.0	5.5
87	1010 1001	1319.38	1345.0	-0.1	-0.1	13.5	1341.9	3.2
88	1010 1000	1335.00	1361.7	-0.3	0.2	16.7	1357.8	4.0
89	1010 0111	1350.63	1369.0	0.1	0.1	7.2	1373.6	-4.7
90	1010 0110	1366.25	1388.5	0.3	0.2	19.5	1389.5	-1.0
91	1010 0101	1381.88	1406.9	0.0	0.1	18.4	1405.4	1.5
92	1010 0100	1397.50	1426.3	-0.4	-0.3	19.4	1421.3	5.0
93	1010 0011	1413.13	1434.9	-0.0	0.1	8.6	1437.2	-2.3
94	1010 0010	1428.75	1460.7	0.2	0.2	25.8	1453.1	7.6
95	1010 0001	1444.38	1471.4	0.1	0.2	10.6	1469.0	2.4
96	1010 0000	1460.00	1488.1	-0.2	0.0	16.7	1484.9	3.3
97	1001 1111	1475.63	1495.7	-0.2	0.2	7.6	1500.8	-5.1
98	1001 1110	1491.25	1512.2	0.1	-0.2	16.4	1516.7	-4.5
99	1001 1101	1506.88	1533.5	0.2	0.2	21.3	1532.5	0.9
100	1001 1100	1522.50	1544.2	0.0	0.2	10.7	1548.4	-4.2
101	1001 1011	1538.13	1561.7	-0.2	0.1	17.5	1564.3	-2.6
102	1001 1010	1553.75	1583.7	-0.5	0.4	22.0	1580.2	3.5
103	1001 1001	1569.38	1599.6	0.1	-0.1	15.8	1596.1	3.5
104	1001 1000	1585.00	1609.9	0.2	0.2	10.3	1612.0	-2.1

ORIGINAL PAGE IS OF POOR QUALITY

IS 236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 310
1981/11/30 12:26:41 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
[illegible] THRESHOLD [illegible] TEST [illegible] SENSOR [illegible]

HAC TEST SET

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO NOMINAL	LOWER	1:1 UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
105	1001 0111	1600.63	1622.4	-0.1	0.0	12.5	1627.9	-5.5
106	1001 0110	1616.25	1641.2	-0.2	-0.2	18.8	1643.8	-2.6
107	1001 0101	1631.88	1660.4	-0.1	-0.2	19.2	1659.7	0.7
108	1001 0100	1647.50	1675.9	0.3	0.2	15.5	1675.6	0.3
109	1001 0011	1663.13	1688.1	0.1	0.1	12.2	1691.4	-3.4
110	1001 0010	1678.75	1713.1	-0.3	-0.0	25.0	1707.3	5.7
111	1001 0001	1694.38	1724.7	-0.2	-0.1	11.7	1723.2	1.5
112	1001 0000	1710.00	1739.4	0.2	0.0	14.6	1739.1	0.2
113	1000 1111	1725.63	1748.1	0.2	0.2	8.7	1755.0	-6.9
114	1000 1110	1741.25	1764.6	0.0	0.3	16.5	1770.9	-6.3
115	1000 1101	1756.88	1786.1	-0.2	-0.2	21.5	1786.8	-0.7
116	1000 1100	1772.50	1799.3	-0.1	0.1	13.1	1802.7	-3.4
117	1000 1011	1788.13	1814.0	0.1	0.0	14.7	1818.6	-4.6
118	1000 1010	1803.75	1836.7	0.4	0.0	22.7	1834.5	2.2
119	1000 1001	1819.38	1852.2	-0.3	-0.1	15.5	1850.3	1.8
120	1000 1000	1835.00	1870.3	-0.2	-0.2	18.1	1866.2	4.0
121	1000 0111	1850.63	1874.7	0.1	-0.2	4.5	1882.1	-7.4
122	1000 0110	1866.25	1893.4	0.5	0.3	18.7	1898.0	-4.6
123	1000 0101	1881.88	1912.5	0.2	0.1	19.1	1913.9	-1.4
124	1000 0100	1897.50	1931.3	-0.3	0.0	18.8	1929.8	1.5
125	1000 0011	1913.13	1940.5	-0.2	0.1	9.2	1945.7	-5.2
126	1000 0010	1928.75	1965.7	0.3	0.0	25.2	1961.6	4.1
127	1000 0001	1944.38	1976.8	0.1	0.1	11.1	1977.5	-0.6
128	1000 0000	1960.00	1989.0	0.0	0.1	12.1	1993.4	-4.4
129	0111 1111	1975.63	2004.0	-0.2	-0.1	15.0	2009.2	-5.3
130	0111 1110	1991.25	2022.2	-0.3	-0.3	18.3	2025.1	-2.9

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27

NOV 30 '81

THERMOCOUPLE NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO 1:1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD.	BEST FIT STRAIGHT LINE POINT	DEVIATION
13[illegible]	0111 1101	2006.88	2041.6	0.2	-0.0	19.3	2041.0	0.5
13[illegible]	0111 1100	2022.50	2055.1	0.3	0.3	13.6	2056.9	-1.8
13[illegible]	0111 1011	2038.13	2070.0	-0.1	-0.0	14.8	2072.8	-2.8
13[illegible]	0111 1010	2053.75	2095.8	-0.3	-0.2	25.8	2088.7	7.1
13[illegible]	0111 1001	2069.38	2106.5	0.0	-0.0	10.7	2104.6	1.9
13[illegible]	0111 1000	2085.00	2116.9	2.9	0.3	10.5	2120.5	-3.5
132	0111 0111	2100.63	2130.6	0.1	0.2	13.6	2136.4	-5.8
133	0111 0110	2116.25	2151.3	-0.3	-0.0	20.7	2152.3	-0.9
139	0111 0101	2131.88	2168.4	-0.2	-0.2	17.1	2168.1	0.3
140	0111 0100	2147.50	2187.6	-0.1	0.1	19.1	2184.0	3.6
141	0111 0011	2163.13	219[illegible].5	0.1	0.2	8.9	2199.9	-3.4
142	0111 0010	2178.75	2224.1	-0.0	0.2	27.6	2215.8	8.3
143	0111 0001	2194.38	2233.2	-0.1	-0.2	9.1	2231.7	1.5
14[illegible]	0111 0000	2210.00	2242.7	-0.3	-0.1	9.5	2247.6	-4.9
145	0110 1111	2225.63	2256.7	0.2	0.0	14.0	2263.5	-6.8
146	0110 1110	2241.25	2275.0	0.3	0.2	18.3	2279.4	-4.4
147	0110 1101	2256.88	2294.8	-0.1	-0.0	19.8	2295.3	-0.5
148	0110 1100	2272.50	2310.1	0.2	-0.2	15.3	2311.2	-1.0
149	0110 1011	2288.13	2322.8	0.0	-0.2	12.7	2327.0	4.[illegible]
150	0110 1010	2303.75	2348.9	-1.4	-1.3	26.1	2342.9	6.0
151	0110 1001	2319.38	2359.7	0.2	0.2	10.3	2358.8	0.4
152	0110 1000	2335.00	2380.3	-0.3	-0.0	21.1	2374.7	5.6
153	0110 0111	2350.63	2403.5	-0.1	-0.2	13.2	2396.4	-7.1
154	0110 0110	2366.25	2403.9	0.4	0.0	29.4	2406.5	-2.6
155	0110 0101	2381.88	2421.1	0.1	0.1	17.2	2422.4	-1.2
156	0110 0100	2397.50	2444.7	-0.0	0.2	23.6	2438.3	6.4
157	0110 0011	2413.13	2449.3	-0.1	0.1	4.6	2454.2	-4.9

ORIGINAL PAGE IS OF POOR QUALITY

[illegible] A/D THRESHOLD TEST (SAND= 2, SENSOR=6)

HAC TEST 327

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
158	0110 0010	2428.75	2477.5	-0.3	-0.3	28.3	2470.1	7.5
159	0110 0001	2444.38	2485.6	0.1	-0.0	8.1	2485.9	-0.3
160	0110 0000	2460.00	2500.1	0.3	0.2	14.4	2501.8	-1.8
161	0101 1111	2475.63	2510.2	-0.2	0.0	10.1	2517.7	-7.5
162	0101 1110	2491.25	2527.9	-0.3	-0.3	17.7	2533.6	-5.7
163	0101 1101	2506.88	2548.2	0.0	-0.2	20.3	2549.5	-1.3
164	0101 1100	2522.50	2560.7	0.3	0.1	12.5	2565.4	-4.7
165	0101 1011	2538.13	2576.0	0.1	0.2	15.3	2581.3	-5.3
166	0101 1010	2553.75	2601.4	-0.6	-0.1	25.4	2597.2	4.2
167	0101 1001	2569.38	2613.7	-0.3	-0.7	12.3	2613.1	0.7
168	0101 1000	2585.00	2625.4	0.3	0.0	11.6	2629.0	-3.6
169	0101 0111	2600.63	2636.8	0.2	0.3	11.4	2644.8	-8.1
170	0101 0110	2616.25	2656.7	0.0	0.3	19.9	2660.7	-4.0
171	0101 0101	2631.88	2674.3	-0.2	-0.2	18.1	2676.6	-1.8
172	0101 0100	2647.50	2694.6	-0.2	0.2	19.8	2692.5	2.1
173	0101 0011	2663.13	2702.7	0.2	0.2	8.0	2708.4	-5.7
174	0101 0010	2678.75	2729.8	0.3	0.3	27.1	2724.3	5.5
175	0101 0001	2694.38	2739.2	-0.2	0.1	9.4	2740.2	-1.0
176	0101 0000	2710.00	2757.1	-0.2	-0.2	17.9	2756.1	1.0
177	0100 1111	2725.63	2763.2	-0.0	-0.2	6.2	2772.0	-8.7
178	0100 1110	2741.25	2780.7	0.3	0.3	17.4	2787.9	-7.2
179	0100 1101	2756.88	2801.0	0.2	0.2	20.3	2803.7	-2.7
180	0100 1100	2772.50	2816.0	-0.3	-0.1	15.0	2819.6	-3.6
181	0100 1011	2788.13	2829.1	-0.2	-0.2	13.0	2835.5	-6.5
182	0100 1010	2803.75	2854.6	-1.1	-0.0	25.5	2851.4	4.2
183	0100 1001	2819.38	2866.7	0.1	0.2	12.1	2867.3	-0.6

ORIGINAL PAGE IS OF POOR QUALITY

								BEST FIT STRAIGHT LINE	
	THRESHOLD		NOMINAL	LOWER			THRESHOLD	POINT	DEVIATION
1[illegible]	0101 1006	[illegible]	2987.0	2.1	0.2		20.3	2984.2	3.6
18	0100 0111	[illegible]	2890.6	-6.3	-0.2		2.9	2889.1	-9.1
18[illegible]	0100 0110	[illegible]	2910.1	-9.3	-0.2		20.1	2915.0	-4.9
18[illegible]	0100 0101	[illegible]	2927.8	0.1	0.1		17.7	2926.9	-3.1
18[illegible]	0100 0100	[illegible]	2948.6	0.2	0.3		20.8	2946.8	1.8
19[illegible]	0100 0011	[illegible]	2955.9	-0.2	-0.0		7.3	2962.6	-6.8
19[illegible]	0100 0010	[illegible]	2983.7	-0.4	-0.3		17.9	1978.5	5.2
191	0100 0001	[illegible]	2992.4	-0.1	-0.1		8.5	2994.4	-2.1
2[illegible]	0100 0000	[illegible]	3003.2	0.2	0.1		10.9	3010.3	-7.2
1[illegible]	0011 1111	[illegible]	3018.2	0.2	0.3		[illegible]	3026.2	-8.1
[illegible]	0011 1110	[illegible]	3034.2	-0.4	-0.3		16.6	3042.1	-5.9
19[illegible]	0011 1101	[illegible]	3054.4	[illegible]	[illegible]		[illegible]	3053.0	-1.6
19[illegible]	0011 1100	[illegible]	3068.4	0.3	-0.1		12.6	[illegible]	-5.[illegible]
19[illegible]	0011 1011	[illegible]	3084.4	[illegible]	0.3		15.0	3082.8	-[illegible].3
19[illegible]	0011 1010	[illegible]	3110.8	-0.1	0.2		[illegible]	[illegible]	4.4
19[illegible]	0011 1001	[illegible]	3121.4	-0.3	-0.3		11.3	121.5	-6.2
20[illegible]	0011 1000	[illegible]	3131.6	-0.1	[illegible]		10.2	[illegible]	[illegible]
20[illegible]	0011 0111	[illegible]	3145.7	0.1	[illegible]		11.1	[illegible]	-7.[illegible]
20[illegible]	0011 0110	[illegible]	3165.7	0.2	0.2		20.0	3169.2	-4.[illegible]
20[illegible]	0011 0101	[illegible]	3183.9	-0.2	-0.0		18.1	[illegible]	-1.2
20[illegible]	0011 0100	[illegible]	3202.7	-0.[illegible]	[illegible]		18.8	3201.0	1.7
20[illegible]	0011 0011	[illegible]	3212.2	-0.0	-0.2		9.5	[illegible]	-4.7
20[illegible]	0011 0010	[illegible]	3239.4	0.2	[illegible]		27.1	[illegible]	6.6
20[illegible]	0011 0001	[illegible]	3248.7	0.1	0.3		9.3	3248.7	-0.0
2[illegible]	0011 0000	[illegible]	3260.2	-0.2	-0.2		11.5	3264.6	-4.4
2[illegible]	0010 1111	[illegible]	3273.0	-0.2	-0.1		12.9	3280.4	-7.4

ORIGINAL PAGE IS OF POOR QUALITY

HS-216 THERMATIC MAGETIC MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 314

1981/11/30 12:26:41 FINALITY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] (CMD) THERMATIC MAGNETIC TEST COMMAND= 2, SENSORS=5 >

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
210	0010 1110	3241.25	3290.9	0.1	0.0	17.9	3296.3	-5.4
211	0010 1101	3256.88	3311.1	0.1	0.2	20.1	3312.2	-1.1
212	0010 1100	3272.50	3325.5	-0.0	0.2	14.4	3328.1	-2.6
213	0010 1011	3288.13	3339.9	-0.3	-0.2	14.0	3344.0	-4.5
214	0010 1010	3303.75	3365.7	-0.3	-0.2	26.1	3359.9	5.8
215	0010 1001	3319.38	3376.4	1.0	0.1	10.7	3375.8	0.6
216	0010 1000	3335.00	3397.2	0.1	0.3	20.8	3391.7	5.6
217	0010 0111	3350.63	3401.0	-0.2	-0.0	3.8	3407.6	-6.5
218	0010 0110	3366.25	3421.3	-0.4	-0.3	20.3	3423.5	-2.1
219	0010 0101	3381.88	3439.2	-0.1	-0.2	17.9	3439.3	-0.1
220	0010 0100	3397.50	3462.2	0.1	0.2	23.0	3455.2	7.0
221	0010 0011	3413.13	3467.3	0.1	0.3	5.1	3471.1	-3.8
222	0010 0010	3428.75	3489.4	-0.5	6.2	22.0	3487.0	2.3
223	0010 0001	3444.38	3504.3	-0.2	-0.2	15.0	3502.9	1.4
224	0010 0000	3460.00	3522.7	0.3	0.2	18.4	3518.8	3.9
225	0001 1111	3475.63	3529.7	0.1	0.2	6.9	3534.7	-5.5
226	0001 1110	3491.25	3546.2	-0.1	0.4	17.0	3550.6	-4.4
227	0001 1101	3506.88	3567.8	-0.3	0.2	21.6	3566.5	1.4
228	0001 1100	3522.50	3579.6	-0.2	-0.3	11.9	3582.4	-2.7
229	0001 1011	3538.13	3596.0	0.1	0.2	16.4	3598.2	2.2
230	0001 1010	3553.75	3621.0	0.1	0.3	25.0	3614.1	6.9
231	0001 1001	3569.38	3634.6	-0.3	0.1	13.6	3630.0	4.6
232	0001 1000	3585.00	3645.5	-0.4	-0.3	10.9	3645.9	-0.4
233	0001 0111	3600.63	3658.0	-0.1	-0.2	12.4	3661.8	-3.8
234	0001 0110	3616.25	3677.4	0.2	0.4	19.4	3677.7	-0.3
235	0001 0101	3631.88	3696.2	0.1	0.2	18.8	3693.6	2.6
236	0001 0100	3647.50	3715.8	-0.3	-0.2	19.6	3709.5	6.3

ORIGINAL PAGE IS OF POOR QUALITY

HS-[illegible] THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 315

1981/[illegible]/30 12:[illegible]:41 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] THRESHOLD [illegible] [illegible] 2+ SENSOR [illegible]

HAC TEST 527

[illegible] NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
2[illegible]	0001 0011	3663.13	3724.9	-0.3	-0.2	9.1	3725.4	-0.5
23[illegible]	0001 0010	3678.75	3751.8	0.1	0.0	26.9	3741.3	10.5
239	0001 0001	3694.38	3761.5	0.1	0.2	9.8	3757.1	4.4
240	0001 0000	3710.00	3777.2	-0.1	0.5	15.7	3773.0	4.2
241	0000 1111	3725.63	3786.4	-0.3	-0.2	9.1	3788.9	-2.5
242	0000 1110	3741.25	3803.8	-0.5	-0.4	17.4	3804.8	-1.0
243	0000 1101	3756.88	3824.7	0.0	0.1	20.9	3820.7	4.0
244	0000 1100	3772.50	3838.6	0.1	0.3	13.9	3836.6	2.0
245	0000 1011	3788.13	3853.4	-0.3	0.0	14.8	3852.5	1.0
246	0000 1010	3803.75	3879.0	-0.4	0.3	25.6	3868.4	10.7
247	0000 1001	3819.38	3892.0	-0.1	0.1	12.9	3884.3	7.7
248	0000 1000	3835.00	3912.2	0.2	0.4	20.7	3900.2	12.6
249	0000 0111	3850.63	3915.2	0.3	0.3	2.5	3916.0	-0.9
250	0000 0110	3866.75	3935.3	-0.5	-0.3	20.1	3931.9	3.4
251	0000 0101	3881.88	3953.9	-0.4	-0.2	18.6	3947.8	6.1
252	0000 0100	3897.50	3973.7	0.2	0.0	19.8	3963.7	10.0
253	0000 0011	3913.13	3982.3	0.1	0.2	8.6	3979.6	2.7
254	0000 0010	3928.75	4010.3	0.3	0.4	28.0	3995.5	14.9
255	0000 0001	3944.38	4019.5	-0.3	0.2	9.2	4011.4	8.2

ORIGINAL PAGE IS OF POOR QUALITY

IS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 316
1981/11/30 12:33:04 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

HAC TEST S27

[illegible] A/D THRESHOLD TEST (BAND= 2, SENSOR=2)
S U M M A R Y

[illegible] THRESHOLD INCREMENT(+/- 0.0 - THRH INC <= 31.2)
IF REMAINING DATA ARE FOR INFORMATION ONLY

[illegible] STRAIGHT LINE IS: Y - 15.880X -34.9MV

DEVIATION OF SLOPE FROM IDEAL IS: 1.632%
OFFSET IS:-34.9MV
COEFFICIENT OF DETERMINATION IS: R**2= .99998810
ANALOG INPUT DURING DC RESTORE IS:64.4MV

RMS ERROR — 4.349MV REQMT: RMS ERROR <=7.812MV

THRESHOLD INCREMENT MEASUREMENT

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
26.8MV	238	15.939MV	4.0MV	189	4.979MV

[illegible] AT OUTPUT LEVELS RATIO — 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
0.9MV	7	-0.048MV	-4.3MV	155	.519MV

[illegible] AT OUTPUT LEVELS RATIO — 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
4.6MV	174	0.012MV	-0.9MV	100	.540MV

TEST PASSED

ORIGINAL PAGE IS OF POOR QUALITY

[illegible] 12:[illegible] QUALITY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] TEST [illegible]

HAC TEST S27

NOV 30 '81

RESULTS NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (%)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO NOMINAL	LOWER	1:1 UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
OF [illegible] DATA ARE FOR INFORMATION ONLY								
1	1111 1111	-24.375	-25.5	-0.6	-0.4		-12.0	-6.5
2	1111 1110	8.750	-8.3	-0.1	-0.5	17.1	-3.2	-5.2
3	1111 1101	6.875	12.8	0.3	0.4	21.1	12.7	0.1
4	1111 1100	22.500	25.9	0.3	0.2	13.1	28.6	-2.7
5	1111 1011	33.125	41.5	-0.5	-0.4	15.6	44.5	-3.0
6	1111 1010	53.750	63.2	-0.5	-0.4	21.7	60.4	2.8
7	1111 1001	69.375	78.5	0.9	-0.1	15.3	76.2	2.2
8	1111 1000	85.000	87.8	0.6	0.6	9.3	92.1	-4.3
9	1111 0111	100.625	102.4	-0.1	0.4	14.6	108.0	-5.6
10	1111 0110	116.250	122.3	-0.6	-0.5	19.9	123.9	-1.6
11	1111 0101	131.875	141.3	-0.4	-0.4	19.0	139.8	1.5
12	1111 0100	147.500	158.2	0.3	0.4	16.9	155.6	2.5
13	1111 0011	163.125	169.3	0.4	0.4	11.1	171.5	-2.2
14	1111 0010	178.750	191.4	-0.6	-0.3	22.1	187.4	4.0
15	1111 0001	194.375	206.5	-0.5	-0.4	15.0	203.3	3.2
16	1111 0000	210.000	215.6	-0.1	0.4	9.1	219.2	-3.6
17	1110 1111	225.625	229.8	0.3	0.5	14.2	235.0	-5.3
18	1110 1110	241.250	246.9	0.6	0.6	17.1	250.9	-4.0
19	1110 1101	256.875	268.7	-0.6	-0.5	21.9	266.8	2.0
20	1110 1100	272.500	283.8	-0.3	0.2	15.1	282.7	1.2
21	1110 1011	288.125	296.6	0.4	0.0	12.8	298.6	-1.9
22	1110 1010	303.750	318.3	0.4	0.5	21.6	314.4	3.8
23	1110 1001	319.375	334.7	-0.1	0.5	16.5	330.3	4.4
24	1110 1000	335.000	348.6	-0.5	-0.5	13.9	346.2	2.4
25	1110 0111	350.625	358.3	-0.5	-0.4	9.6	362.1	-3.8

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27

DESIRED NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
26	1110 0110	366.250	377.3	0.5	0.6	19.0	378.0	-0.7
27	1110 0101	381.875	396.2	0.3	0.4	18.9	393.8	2.4
28	1110 0100	397.500	417.9	-0.7	0.0	21.6	409.7	8.2
29	1110 0011	413.125	424.9	-0.4	-0.4	7.0	425.6	-0.7
30	1110 0010	428.750	446.9	-0.1	-0.5	22.0	441.5	5.4
31	1110 0001	444.375	461.3	0.4	0.4	14.4	457.4	3.9
32	1110 0000	460.000	469.7	0.3	0.4	8.4	473.2	-3.5
33	1101 1111	475.625	485.9	-0.5	-0.5	16.2	489.1	-3.2
34	1101 1110	491.250	502.4	-0.6	-0.6	16.5	505.0	-2.6
35	1101 1101	506.875	523.9	0.3	-0.0	21.5	520.9	3.0
36	1101 1100	522.500	536.7	0.3	0.3	12.8	536.8	-0.0
37	1101 1011	538.125	552.1	-0.0	0.4	15.4	552.6	-0.5
38	1101 1010	553.750	573.5	-0.5	0.4	21.4	568.5	5.0
39	1101 1001	569.375	590.8	-0.5	-0.5	17.3	584.4	6.4
40	1101 1000	585.000	600.9	0.5	0.5	10.1	600.3	0.7
41	1101 0111	600.625	613.2	0.4	0.3	12.3	616.2	-2.9
42	1101 0110	616.250	632.4	-0.5	0.0	19.2	632.0	0.4
43	1101 0101	631.875	651.9	-0.5	-0.4	19.4	647.9	4.0
44	1101 0100	647.500	669.3	-0.0	-0.3	17.4	663.8	5.5
45	1101 0011	663.125	679.7	0.3	0.4	10.4	679.7	0.0
46	1101 0010	678.750	700.7	0.5	0.5	21.0	695.6	5.1
47	1101 0001	694.375	716.6	-0.4	-0.5	16.0	711.4	5.2
48	1101 0000	710.000	729.3	-0.4	-0.3	12.7	727.3	2.0
49	1100 1111	725.625	739.8	0.4	0.0	10.4	743.2	-3.4
50	1100 1110	741.250	756.3	0.5	0.6	16.5	759.1	-2.8
51	1100 1101	756.875	778.0	-0.0	0.4	21.7	775.0	3.0

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST 27

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1:1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
52	1100 1100	772.500	793.1	-0.2	-0.2	15.1	790.8	2.3
53	1100 1011	788.125	806.5	-0.0	-0.4	13.4	806.7	-0.2
54	1100 1010	803.750	827.2	0.5	0.4	20.7	822.6	4.6
55	1100 1001	819.375	844.0	0.5	0.4	16.8	838.5	5.6
56	1100 1000	835.000	862.1	-0.5	-0.0	18.0	854.4	7.7
57	1100 0111	850.625	867.2	-0.4	-0.4	5.1	870.2	-3.1
58	1100 0110	866.250	886.1	-0.0	-0.6	18.9	886.1	0.0
59	1100 0101	881.875	904.8	0.4	0.4	18.7	902.0	2.8
60	1100 0100	897.500	924.6	0.0	0.3	19.8	917.9	6.8
61	1100 0011	913.125	933.3	-0.5	-0.5	8.7	933.8	-0.5
62	1100 0010	928.750	954.5	-0.6	-0.6	21.2	949.6	4.9
63	1100 0001	944.375	969.2	0.9	0.0	14.7	965.5	3.7
64	1100 0000	960.000	977.4	0.4	0.4	8.1	981.4	-4.0
65	1011 1111	975.625	994.8	0.0	0.4	17.4	997.3	-2.5
66	1011 1110	991.250	1011.4	-0.6	-0.6	16.7	1013.2	-1.7
67	1011 1101	1006.88	1034.8	-0.0	-0.4	23.4	1029.0	5.8
68	1011 1100	1022.50	1046.9	0.5	0.6	12.0	1044.9	1.9
69	1011 1011	1038.13	1060.9	0.5	0.4	14.1	1060.8	0.1
70	1011 1010	1053.75	1082.4	-0.5	0.0	21.5	1076.7	5.8
71	1011 1001	1069.38	1099.2	-0.4	-0.4	16.7	1092.6	6.6
72	1011 1000	1085.00	1106.7	-0.0	-0.5	7.5	1108.4	-1.7
73	1011 0111	1100.63	1121.6	0.4	0.4	14.9	1124.3	-2.7
74	1011 0110	1116.25	1139.9	0.1	0.6	18.3	1140.2	-0.3
75	1011 0101	1131.88	1161.8	-0.4	-0.4	21.8	1156.1	5.7
76	1011 0100	1147.50	1175.9	-0.4	-0.4	14.2	1172.0	4.0
77	1011 0011	1163.13	1187.6	0.4	-0.0	11.7	1187.8	-0.2
78	1011 0010	1178.75	1208.2	0.5	0.5	20.6	1203.7	4.5

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO NOMINAL	LOWER	1:1 UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
79	1011 0001	1194.38	1223.9	0.0	1.4	15.7	1219.6	4.4
80	1011 0000	1210.00	1234.9	-0.1	-0.2	11.0	1235.5	-0.5
81	1010 1111	1225.63	1247.9	0.0	-0.4	13.0	1251.4	-3.4
82	1010 1110	1241.25	1263.7	0.5	0.5	15.8	1267.2	-3.5
83	1010 1101	1256.88	1286.9	0.4	0.3	23.2	1283.1	3.8
84	1010 1100	1272.50	1299.8	-0.3	0.0	12.9	1299.0	0.8
85	1010 1011	1288.13	1313.8	-0.3	-0.3	14.0	1314.9	-1.0
86	1010 1010	1303.75	1335.5	-0.0	-0.5	21.6	1330.8	4.7
87	1010 1001	1319.38	1351.3	0.5	0.5	15.8	1346.6	4.6
88	1010 1000	1335.00	1364.5	0.0	0.3	13.2	1362.5	2.0
89	1010 0111	1350.63	1374.5	-0.4	-0.5	10.0	1378.4	-3.9
90	1010 0110	1366.25	1393.1	-0.6	0.6	18.6	1394.3	-1.1
91	1010 0101	1381.88	1411.8	0.4	-0.0	18.7	1410.7	1.7
92	1010 0100	1397.50	1432.6	0.2	0.3	20.8	1426.0	6.6
93	1010 0011	1413.13	1439.9	0.0	0.5	7.3	1441.9	-2.0
94	1010 0010	1428.75	1461.3	-0.5	-0.5	21.4	1457.8	3.5
95	1010 0001	1444.38	1478.0	0.0	-0.5	16.7	1473.7	4.3
96	1010 0000	1460.00	1491.3	0.3	0.3	13.3	1489.6	1.8
97	1001 1111	1475.63	1500.4	0.5	0.4	9.0	1505.4	-5.1
98	1001 1110	1491.25	1516.4	-0.5	0.0	16.0	1521.3	-4.9
99	1001 1101	1506.88	1540.1	-0.4	-0.4	23.7	1537.2	2.9
100	1001 1100	1522.50	1553.0	-0.1	-0.9	12.9	1553.1	-0.1
101	1001 1011	1538.13	1566.4	0.4	0.4	13.4	1569.0	-2.5
102	1001 1010	1553.75	1586.8	0.0	0.5	20.4	1584.8	1.9
103	1001 1001	1569.38	1604.7	-0.5	-0.5	17.9	1600.7	4.0
104	1001 1000	1585.00	1614.3	-0.5	-0.5	9.6	1616.6	-2.3

ORIGINAL PAGE IS OF POOR QUALITY

IS-2[illegible] THEMATIC MAPPER MUX UNIT TEST MODEL .. FLT. S/N 3 PAGE 321
[illegible] 30 12:33:17 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
[illegible] SENSOR-7)

HAC TEST 527

NOV 30 '81

RESULTED NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO- 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
105	1001 0111	1600.63	1627.0	0.5	0.0	12.6	1632.5	-5.5
106	1001 0110	1616.25	1644.7	0.5	0.5	17.8	1648.4	-3.6
107	1001 0101	1631.88	1664.7	-0.1	0.4	20.0	1664.2	0.5
108	1001 0100	1647.50	1681.9	-0.3	0.3	17.1	1680.1	1.8
109	1001 0011	1663.13	1693.3	0.0	0.4	11.4	1696.0	-2.7
110	1001 0010	1673.75	1716.5	0.4	0.4	23.2	1711.9	4.6
111	1001 0001	1694.38	1730.5	0.5	0.4	14.0	1727.8	2.8
112	1001 0000	1713.00	1743.8	-0.3	0.0	13.2	1743.6	0.1
113	1000 1111	1725.63	1753.2	-0.5	-0.4	9.4	1759.5	-6.3
114	1000 1110	1741.25	1769.0	-0.1	-0.6	15.8	1775.4	-6.4
115	1000 1111	1756.88	1792.1	0.4	0.4	23.1	1791.3	0.8
116	1000 1100	1772.50	1804.3	0.0	0.3	12.1	1807.2	-2.9
117	1000 1011	1783.13	1819.2	-0.5	-0.5	14.9	1823.0	-3.9
118	1000 1010	1803.75	1840.2	-0.5	-0.5	21.0	1838.9	1.3
119	1000 1001	1819.38	1856.5	0.5	0.0	16.2	1854.8	1.7
120	1000 1000	1835.00	1873.6	0.4	0.4	17.2	1870.7	3.0
121	1000 0111	1850.63	1879.2	-0.0	0.4	5.5	1886.6	-7.4
122	1000 0110	1866.25	1897.7	-0.7	0.6	18.5	1902.4	-4.7
123	1000 0101	1881.88	1917.4	0.0	0.5	19.7	1918.3	-0.9
124	1000 0100	1897.50	1936.7	0.4	0.7	19.3	1934.2	2.5
125	1000 0011	1913.13	1944.9	0.5	0.5	8.2	1950.1	-5.2
126	1000 0010	1928.75	1965.8	-0.5	0.0	20.9	1966.0	-0.2
127	1000 0001	1944.38	1983.1	-0.5	-0.5	17.3	1981.8	1.3
128	1000 0000	1960.00	1992.8	0.1	-0.4	9.7	1997.7	-4.9
129	0111 1111	1975.63	2008.2	0.4	0.4	15.4	2013.6	-5.4
130	0111 1110	1991.25	2025.3	0.0	0.6	17.0	2029.5	-4.2

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27

NOV 30 '80

RESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO NOMINAL	LOWER	1 :1 UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
131	0111 1101	2006.88	2045.9	-0.5	-0.5	20.6	2045.4	0.5
132	0111 1100	2022.50	2063.2	-0.9	0.6	17.4	2061.2	2.0
133	0111 1011	2038.13	2074.3	0.5	0.0	11.0	2077.1	-2.9
134	0111 1010	2053.75	2097.4	0.6	0.6	23.2	2093.0	4.4
135	0111 1001	2069.38	2111.4	0.0	0.5	14.0	2108.9	2.6
136	0111 1000	2085.00	2121.2	-0.8	-0.8	9.7	2124.8	-3.6
137	0111 0111	2100.63	2135.4	-0.1	-0.5	14.2	2140.6	-5.2
138	0111 0110	2116.25	2154.3	0.6	0.5	18.8	2156.5	-2.2
139	0111 0101	2131.88	2172.1	0.5	0.4	17.8	2172.4	-0.3
140	0111 0100	2147.50	2191.2	-0.4	0.0	19.0	2188.3	2.9
141	0111 0011	2163.13	2201.3	-0.4	-0.4	10.2	2204.2	-2.8
142	0111 0010	2178.75	2223.0	0.1	-0.6	21.6	2220.0	3.0
143	0111 0001	2194.38	2237.5	0.5	0.5	14.5	2235.9	1.6
144	0111 0000	2210.00	2246.2	-0.0	0.3	8.7	2251.8	-5.6
145	0110 1111	2225.63	2261.5	-0.5	-0.5	15.2	2267.7	-6.2
146	0110 1110	2241.25	2278.6	-0.5	-0.6	17.2	2283.6	-4.9
147	0110 1101	2256.88	2301.6	0.4	0.0	23.0	2299.4	2.2
148	0110 1100	2272.50	2314.7	0.1	0.1	13.0	2315.3	-0.6
149	0110 1011	2288.13	2327.4	-0.5	0.0	12.7	2331.2	-3.8
150	0110 1010	2303.75	2351.2	-0.5	-0.6	23.8	2347.1	4.1
151	0110 1001	2319.38	2364.7	-0.1	-0.6	13.5	2363.0	1.8
152	0110 1000	2335.00	2378.2	0.4	0.4	13.4	2378.8	-0.7
153	0110 0111	2350.63	2387.6	0.4	0.3	9.4	2394.7	-7.1
154	0110 0110	2366.25	2407.5	-0.6	-0.0	19.9	2410.6	-3.1
155	0110 0101	2381.88	2429.0	-4.3	-0.6	21.5	2426.5	2.5
156	0110 0100	2397.50	2447.9	0.3	0.0	18.9	2442.4	5.6
157	0110 0011	2413.13	2453.4	0.4	0.4	5.5	2458.2	-4.8

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27

NOV 30 '81

DESIRED NUMBER	A/D OUTPUT THRESHOLD	IDEAL VOLTS (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
158	0110 0010	2478.75	2475.2	0.0	0.5	21.7	2474.1	1.1
159	0110 0001	2444.38	2490.7	-0.7	-0.8	15.5	2490.0	0.7
160	0110 0000	2460.00	2502.8	-0.4	-0.4	12.1	2505.9	-3.0
161	0101 1111	2475.63	2514.0	0.4	0.0	11.2	2521.8	-7.7
162	0101 1110	2491.25	2530.5	0.6	0.6	16.5	2537.6	-7.1
163	0101 1101	2506.88	2555.2	-0.6	-0.2	24.7	2553.5	1.7
164	0101 1100	2522.50	2569.3	-0.7	-0.8	14.1	2569.4	-0.1
165	0101 1011	2538.13	2580.5	-0.0	-0.5	11.1	2585.3	-4.8
166	0101 1010	2553.75	2602.6	0.5	0.6	22.1	2601.2	1.5
167	0101 1001	2569.38	2617.2	0.5	0.6	14.6	2617.0	0.2
168	0101 1000	2585.00	2628.8	-0.5	0.1	11.5	2632.9	-4.1
169	0101 0111	2600.63	2641.1	-0.4	-0.4	12.4	2648.8	-7.7
170	0101 0110	2616.25	2659.4	0.6	0.0	18.3	2664.7	-5.2
171	0101 0101	2631.88	2682.0	0.3	0.4	22.5	2680.6	1.4
172	0101 0100	2647.50	2697.4	0.0	0.4	15.4	2696.4	1.0
173	0101 0011	2663.13	2707.1	-0.5	0.5	9.6	2712.3	-5.3
174	0101 0010	2678.75	2728.0	-0.5	4.6	20.9	2728.2	-0.2
175	0101 0001	2694.38	2743.7	0.5	0.0	15.7	2744.1	-0.4
176	0101 0000	2710.00	2760.0	0.1	0.2	16.3	2760.0	0.1
177	0100 1111	2725.63	2767.5	-0.6	-0.0	7.4	2775.8	-8.4
178	0100 1110	2741.25	2784.0	-0.7	-0.6	16.5	2791.7	-7.7
179	0100 1101	2756.88	2807.8	-0.1	-0.7	23.8	2807.6	0.3
180	0100 1100	2772.50	2819.9	0.3	0.3	12.0	2823.5	-3.6
181	0100 1011	2788.13	2832.7	0.5	0.4	12.8	2839.4	6.6
182	0100 1010	2803.75	2856.5	-0.5	0.0	23.8	2855.2	1.3
183	0100 1001	2819.38	2870.6	-0.5	-0.5	14.1	2871.1	-0.5

ORIGINAL PAGE IS OF POOR QUALITY

US 235 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 324
1981/11/30 12:33:17 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
[illegible]

HAC TEST S27
NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO- 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
184	0100 1000	2835.00	2888.3	0.6	0.0	17.7	2887.0	1.3
185	0100 0111	2850.63	2893.5	0.5	0.5	5.2	2902.9	-9.4
186	0100 0110	2866.25	2912.4	0.0	0.6	18.8	2918.8	-6.4
187	0100 0101	2881.88	2935.1	-0.4	-0.4	22.7	2934.6	0.5
188	0100 0100	2897.50	2955.4	-0.4	-0.4	20.2	2950.5	4.8
189	0100 0011	2913.13	2959.4	0.6	0.0	4.0	2966.4	-7.0
190	0100 0010	2928.75	2980.6	0.6	0.7	21.3	2982.3	-1.6
191	0100 0001	2944.38	2997.2	-0.6	0.0	16.6	2998.2	-1.0
192	0100 0000	2960.00	3006.9	-0.4	-0.4	9.7	3014.0	-7.1
193	0011 1111	2975.63	3022.2	-0.1	0.5	15.3	3029.9	-7.7
194	0011 1110	2991.25	3033.3	0.6	0.6	16.1	3045.8	-7.5
195	0011 1101	3006.88	3062.7	0.4	0.4	24.4	3061.7	1.0
196	0011 1100	3022.50	3075.0	-0.7	-0.1	12.3	3077.6	-2.5
197	0011 1011	3038.13	3088.5	-0.5	-0.4	13.4	3093.4	-5.0
198	0011 1010	3053.75	3110.8	0.5	-0.0	22.4	3109.3	1.5
199	0011 1001	3069.38	3125.5	0.4	0.5	14.6	3125.2	0.3
200	0011 1000	3085.00	3133.9	0.1	0.8	8.4	3141.1	-7.2
201	0011 0111	3100.63	3149.6	-0.5	0.5	15.7	3157.0	-7.3
202	0011 0110	3116.25	3168.6	-0.6	-0.6	19.0	3172.8	-4.2
203	0011 0101	3131.88	3191.0	0.3	-0.1	22.4	3188.7	2.3
204	0011 0100	3147.50	3204.9	0.3	0.3	13.9	3204.6	0.3
205	0011 0011	3163.13	3216.0	-0.5	0.0	11.0	3220.5	-4.5
206	0011 0010	3178.75	3242.4	-0.5	0.4	26.4	3236.4	6.1
207	0011 0001	3194.38	3253.2	-0.1	-0.8	10.8	3252.2	1.0
208	0011 0000	3210.00	3263.6	0.2	0.1	10.3	3268.1	-4.6
209	0010 1111	3225.63	3276.2	0.5	0.5	12.7	3284.0	-7.7

ORIGINAL PAGE IS OF POOR QUALITY

[illegible] UNIT TEST [illegible] PAGE [illegible]

[illegible] QUALITY [illegible]

[illegible]

HAC TEST S27

NOV 30 '81

[illegible]	[illegible]	[illegible]	ANALOG INPUT VOLTAGE (MV)			[illegible]	[illegible] STRAIGHT LINE	
				LEVELS RATIO	1:1	[illegible]		
[illegible]	[illegible]	[illegible]	NOMINAL	LOWER	UPPER	[illegible]	[illegible]	DEVIATION
[illegible]	[illegible]	[illegible]	3293.5	-0.7	0.0	17.3	3299.9	-6.4
[illegible]	[illegible]	[illegible]	3317.6	-0.4	[illegible]	[illegible]	[illegible]	1.9
[illegible]	[illegible]	[illegible]	3329.3	0.2	0.0	11.7	3331.6	-2.[illegible]
[illegible]	[illegible]	[illegible]	3342.7	0.4	0.5	[illegible]	3347.5	-4.8
[illegible]	[illegible]	[illegible]	3366.2	-0.1	[illegible]	[illegible]	[illegible]	2.8
[illegible]	[illegible]	[illegible]	3380.8	-0.[illegible]	-1.6	14.6	[illegible]	1.6
[illegible]	[illegible]	[illegible]	3395.4	-0.[illegible]	0.6	14.6	[illegible]	0.3
217	[illegible]	[illegible]	3403.9	0.[illegible]	-[illegible]	[illegible]	[illegible]	-7.1
[illegible]	[illegible]	[illegible]	3423.1	0.6	0.7	19.1	[illegible]	-3.[illegible]
219	[illegible]	[illegible]	3446.4	-0.[illegible]	0.0	[illegible]	[illegible]	3.6
[illegible]	[illegible]	[illegible]	3464.9	-0.4	-[illegible]	[illegible]	[illegible]	4.[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	0.0	-[illegible]	[illegible]	[illegible]	-3.4
[illegible]	[illegible]	[illegible]	[illegible]	0.4	[illegible]	[illegible]	[illegible]	7.[illegible]
[illegible]	[illegible]	[illegible]	3508.0	[illegible]	0.6	10.3	[illegible]	1.7
[illegible]	[illegible]	[illegible]	3524.8	-0.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	-0.[illegible]	-[illegible]	8.6	[illegible]	-4.7
[illegible]	[illegible]	[illegible]	3549.4	-0.1	[illegible]	[illegible]	[illegible]	-4.6
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	-[illegible]	[illegible]	12.1	[illegible]	-0.4
[illegible]	[illegible]	[illegible]	[illegible]	-0.[illegible]	-0.6	[illegible]	[illegible]	-2.0
[illegible]	[illegible]	[illegible]	[illegible]	-0.6	-[illegible]	[illegible]	[illegible]	4.6
[illegible]	[illegible]	[illegible]	[illegible]	0.4	[illegible]	14.8	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10.3	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-3.9
[illegible]	[illegible]	[illegible]	[illegible]	-[illegible]	-[illegible]	[illegible]	[illegible]	-1.1
[illegible]	[illegible]	[illegible]	[illegible]	-0.1	-[illegible]	[illegible]	[illegible]	6.2
[illegible]	[illegible]	[illegible]	[illegible]	0.3	0.4	[illegible]	[illegible]	4.9

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 326

1981/11/30 12:33:17 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.1.5-11 A/D THRESHOLD TEST (BAND= 2, SENSOR=2)

HAC TEST S27

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO- 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
237	0001 0011	3663.13	3727.6	0.6	0.5	10.0	3728.6	-1.0
238	0001 0010	3678.75	3754.4	-0.7	0.0	26.8	3744.5	9.9
239	0001 0001	3694.38	3765.9	-0.6	-0.6	11.5	3760.4	5.6
240	0001 0000	3710.00	3784.5	0.3	0.1	18.6	3776.3	8.3
241	0000 1111	3725.63	3789.8	0.5	0.5	5.2	3792.2	-2.4
242	0000 1110	3741.25	3805.2	-0.1	0.6	15.5	3808.0	-2.8
243	0000 1101	3756.88	3830.4	-0.5	-0.4	25.2	3823.9	6.5
244	0000 1100	3772.50	3842.1	-0.3	-0.3	11.7	3839.8	2.3
245	0000 1011	3788.13	3856.0	0.4	0.6	13.9	3855.7	0.4
246	0000 1010	3803.75	3879.2	0.4	0.5	23.1	3871.6	7.6
247	0000 1001	3819.38	3897.9	-0.7	0.0	18.7	3887.4	10.5
248	0000 1000	3835.00	3913.8	-0.6	-0.6	15.9	3903.3	10.4
249	0000 0111	3850.63	3918.5	-0.0	0.6	4.7	3919.2	-0.7
250	0000 0110	3866.25	3936.4	0.6	0.8	17.9	3935.1	1.4
251	0000 0101	3881.88	3960.0	0.3	0.3	23.5	3951.0	9.0
252	0000 0100	3897.50	3980.1	-0.7	-0.5	20.2	3966.8	13.3
253	0000 0011	3913.13	3985.6	-0.9	-0.8	5.5	3982.7	2.9
254	0000 0010	3923.75	4011.9	0.4	0.1	26.3	3998.6	13.3
255	0000 0001	3944.38	4022.9	0.5	0.5	11.0	4014.5	8.4

ORIGINAL PAGE IS OF POOR QUALITY

HS-2[illegible] THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 327

1981[illegible] 30 12:3[illegible]:40 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible]

HAC TEST S27

NOV 30 '81

CHECK 1) [illegible] ERROR, 2) [illegible] SHOED INCREMENT(+/- 0.0 [illegible] - 31.2)

THE [illegible] DATA ARE FOR INFORMATION ONLY

[illegible]

DEVIATION OF SLOPE FROM IDEAL IS: 1.60[illegible]

[illegible] IS:-4[illegible]

CORRELATION OF DETERMINATION IS: R**2= .99998840

[illegible] INPUT DURING DC RESTORE IS:64.[illegible]MV

[illegible]

[illegible]

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
[illegible]MV	[illegible]	15.9[illegible]MV	1.[illegible]MV	217	5.554MV

[illegible]

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
[illegible]MV	194	-0.044MV	-2.6MV	86	.427MV

[illegible]

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
[illegible]MV	194	0.[illegible]MV	0.[illegible]MV	[illegible]	.390MV

[illegible]

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 328

1981/11/30 12:39:53 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] THRESHOLD TEST [illegible] SENSOR=8 >

HAC TEST S27

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
THE FOLLOWING DATA ARE FOR INFORMATION ONLY								
1	1111 1111	-24.375	-33.6	-1.2	-0.1		-25.9	-7.7
2	1111 1110	8.750	-14.7	0.3	0.3	18.8	-10.0	-4.7
3	1111 1101	6.875	3.3	0.3	0.3	18.0	5.8	-2.5
4	1111 1100	22.500	20.2	-0.3	0.0	16.9	21.7	-1.5
5	1111 1011	38.125	33.5	-0.3	-0.3	13.3	37.6	-4.0
6	1111 1010	53.750	55.3	-0.1	-0.3	21.7	53.5	1.8
7	1111 1001	69.375	70.1	0.4	0.4	14.8	69.3	0.8
8	1111 1000	85.000	86.3	0.1	0.4	16.2	85.2	1.1
9	1111 0111	100.625	94.8	-0.3	-0.3	8.4	101.1	-6.3
10	1111 0110	116.250	116.2	-0.4	0.4	21.4	117.0	-0.8
11	1111 0101	131.875	131.5	0.3	-0.0	15.3	132.8	-1.4
12	1111 0100	147.500	152.7	0.2	0.4	21.2	148.7	4.0
13	1111 0011	163.125	161.6	-0.3	0.0	8.9	164.6	-3.0
14	1111 0010	178.750	185.7	-0.3	-0.4	24.0	180.5	5.2
15	1111 0001	194.375	198.5	-0.1	-0.3	12.8	196.3	2.1
16	1111 0000	210.000	209.7	0.2	0.2	11.2	212.2	-2.5
17	1110 1111	225.625	222.0	0.2	0.2	12.2	228.1	-6.1
18	1110 1110	241.250	241.3	-0.4	0.1	19.3	244.0	-2.7
19	1110 1101	256.875	259.9	-0.7	-0.5	18.6	259.9	0.1
20	1110 1100	272.500	278.5	0.2	0.0	18.6	275.7	2.8
21	1110 1011	288.125	288.6	0.2	0.3	10.1	291.6	-3.0
22	1110 1010	303.750	310.5	-0.1	0.4	21.8	307.5	3.0
23	1110 1001	319.375	325.8	-0.4	-0.3	15.4	323.4	2.5
24	1110 1000	335.000	347.5	-0.5	-0.5	21.7	339.2	8.3
25	1110 0111	350.625	349.8	0.4	0.0	2.3	355.1	-5.3

ORIGINAL PAGE IS OF POOR QUALITY

HS 236 THEMATIC MAPPER DCX UNIT TEST MODEL.. FLT. S/N 3 PAGE 329

1981/[illegible] 12:39:53 FINALITY FULL PERFORMANCE D AMBIENT TEMP.

[illegible]

HAC TEST 527

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO NOMINAL	LOWER	1.1 UPPER	INCREASE FROM PREV THRESHOLD	LEST FIT STRAIGHT LINE POINT	DEVIATION
26	1110 0110	356.250	371.3	0.3	0.3	21.5	371.0	0.3
27	1110 0101	381.875	387.0	-0.3	-0.0	15.7	386.9	0.1
28	1110 0100	397.500	410.7	-0.4	-0.3	23.7	402.7	7.9
29	1110 0011	413.125	416.7	0.0	-0.3	6.1	418.6	-1.9
30	1110 0010	428.750	440.5	0.3	0.4	23.8	434.5	6.0
31	1110 0001	[illegible]	453.2	0.3	0.3	12.7	450.4	2.9
32	1110 0000	460.000	466.2	-0.3	0.0	12.9	466.2	-0.1
33	1101 1111	475.625	477.8	-0.3	-0.3	11.7	482.1	-4.3
34	1101 1110	491.250	495.9	0.3	-0.0	18.0	498.0	-2.1
35	1101 1101	506.875	515.1	0.4	0.4	19.3	513.9	1.3
36	1101 1100	522.500	530.8	-0.1	0.3	15.6	529.7	1.1
37	1101 1011	538.125	544.4	-0.3	-0.2	13.6	545.6	-1.2
38	1101 1010	553.750	565.6	-0.4	-0.3	21.2	561.5	4.1
39	1101 1001	569.375	580.9	0.3	0.0	15.3	577.4	3.6
40	1101 1000	585.000	600.2	0.3	0.4	19.3	593.2	7.0
41	1101 0111	600.625	605.5	0.3	0.0	5.3	609.1	-3.6
42	1101 0110	616.250	626.1	-0.3	0.4	20.7	625.0	1.1
43	1101 0101	631.875	642.1	-0.0	-0.2	15.9	640.9	1.2
44	1101 0100	647.500	662.6	0.3	0.3	20.5	656.7	5.9
45	1101 0011	663.125	671.5	0.3	0.3	8.9	672.6	-1.1
46	1101 0010	678.750	695.3	-0.4	0.0	23.7	688.5	6.8
47	1101 0001	694.375	708.6	-0.4	-0.4	13.3	704.4	4.2
48	1101 0000	710.000	723.7	0.1	0.0	15.1	720.2	3.4
49	1100 1111	725.625	731.8	0.3	0.2	8.1	736.1	-4.3
50	1100 1110	741.250	750.2	-0.1	0.3	18.4	752.0	-1.8
51	1100 1101	756.875	769.6	-0.3	-0.3	19.4	767.9	1.8

ORIGINAL PAGE IS OF POOR QUALITY

US-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 330
1981/11/30 12:39:53 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

HAC TEST S27

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 2, SENSOR=8)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO- 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
52	1100 1100	772.500	788.1	-0.4	-0.4	18.5	783.7	4.4
53	1100 1011	788.125	798.0	0.3	0.0	9.9	799.6	-1.6
54	1100 1010	803.750	819.2	0.3	0.3	21.2	815.5	3.7
55	1100 1001	819.375	834.9	-0.3	-0.0	15.7	831.4	3.5
56	1100 1000	835.000	857.4	-0.4	-0.4	22.5	847.2	10.2
57	1100 0111	850.625	859.1	0.0	-0.3	1.7	863.1	-4.0
58	1100 0110	866.250	879.4	0.3	0.3	20.3	879.0	0.4
59	1100 0101	881.875	895.2	0.1	1.0	15.8	894.9	0.3
60	1100 0100	897.500	918.6	-0.3	-0.0	23.4	910.7	7.8
61	1100 0011	913.125	925.1	-0.3	-0.4	6.5	926.6	-1.6
62	1100 0010	928.750	948.1	0.3	0.0	23.1	942.5	5.7
63	1100 0001	944.375	961.1	0.4	0.3	12.9	958.4	2.7
64	1100 0000	960.000	973.7	0.0	0.1	12.7	974.2	-0.5
65	1011 1111	975.625	987.1	-0.3	-0.3	13.3	990.1	-3.0
66	1011 1110	991.250	1005.2	-0.3	-0.3	18.1	1006.0	-0.8
67	1011 1101	1006.88	1024.2	0.3	0.0	19.0	1021.9	2.3
68	1011 1100	1022.50	1038.5	0.3	0.4	14.3	1037.7	0.8
69	1011 1011	1038.13	1053.1	-0.2	0.1	14.6	1053.6	-0.5
70	1011 1010	1053.75	1074.1	-0.4	-0.3	20.9	1069.5	4.6
71	1011 1001	1069.38	1089.6	0.0	-0.3	15.6	1085.4	4.3
72	1011 1000	1085.00	1104.5	0.2	0.2	14.9	1101.2	3.3
73	1011 0111	1100.63	1113.5	0.3	0.3	9.0	1117.1	-3.6
74	1011 0110	1116.25	1134.3	-0.4	-0.4	20.7	1133.0	1.3
75	1011 0101	1131.88	1151.1	-0.2	-0.4	16.8	1148.9	2.2
76	1011 0100	1147.50	1169.9	0.3	0.0	18.9	1164.7	5.2
77	1011 0011	1163.13	1179.4	0.3	0.3	9.5	1180.6	-1.2
78	1011 0010	1178.75	1202.6	0.1	0.3	23.1	1196.5	6.1

ORIGINAL PAGE IS OF POOR QUALITY

HS 2[illegible] THEMATIC MAPPER MUX UNIT TEST MODEL [illegible] S/N 3 PAGE 331

1981/11/30 12:39:[illegible] LINEARITY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible]

HAC TEST 327

[illegible] 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	LEAST FIT STRAIGHT LINE POINT	DEVIATION
79	1011 0001	[illegible].38	1216.2	-0.3	-0.3	13.7	1211.4	3.9
80	1011 0000	[illegible].00	1229.1	-0.2	-0.3	12.9	1228.2	0.9
81	1010 1111	[illegible].63	1239.5	0.3	0.3	10.4	[illegible].1	-4.6
82	1010 1110	[illegible].25	1257.7	0.3	0.3	13.1	[illegible]	-2.3
83	1010 1101	[illegible].38	1277.2	-0.3	0.1	19.5	1275.9	1.3
84	1010 1100	[illegible].50	1294.6	-0.3	-0.3	17.4	1291.8	2.9
85	1010 1011	[illegible].13	1305.7	0.0	-0.3	11.1	1307.6	-1.9
86	1010 1010	[illegible]	1326.3	0.3	0.3	20.5	[illegible]	2.8
87	1010 1001	[illegible]	1341.8	0.3	0.3	15.4	[illegible]	2.4
88	1010 1000	[illegible]	1363.5	-2.8	-3.6	21.7	[illegible]	3.3
89	1010 0111	[illegible]	1366.3	0.4	0.4	2.8	1371.1	-4.8
90	1010 0110	[illegible]	1386.4	0.4	0.0	20.1	1387.0	-0.6
91	1010 0101	[illegible]	[illegible].2	0.3	0.3	15.7	1402.9	0.3
92	1010 0100	[illegible]	[illegible]	0.0	[illegible]	21.3	1416.3	1.7
93	1010 0011	[illegible]	[illegible].1	-0.4	0.3	7.7	1424.6	2.5
94	1010 0010	[illegible]	1447.4	-0.3	0.3	23.2	[illegible]	4.9
95	1010 0001	[illegible]	1468.2	0.1	0.3	12.8	1466.4	1.8
96	1010 0000	[illegible]	1487.0	0.2	0.4	19.9	1482.3	4.7
97	1001 1111	[illegible]	1473.0	-0.3	-6.0	6.0	[illegible]	-5.1
98	1001 1110	[illegible]	1510.9	-0.2	[illegible]	17.9	1514.0	-3.1
99	1001 1101	[illegible]	1530.3	-0.1	-0.3	19.4	1529.9	0.5
100	1001 1100	[illegible]	1544.1	0.3	0.3	13.7	1545.8	-1.7
101	1001 1011	[illegible]	1558.6	0.2	0.3	14.5	1561.6	-3.0
102	1001 1010	[illegible]	1578.9	-0.2	-0.3	20.3	1577.5	1.4
103	1001 1001	[illegible]	1595.2	-0.4	-0.3	16.2	1593.4	1.8
104	1001 1000	[illegible]	1613.1	0.2	0.0	17.9	1609.3	3.8

ORIGINAL PAGE IS OF POOR QUALITY

[illegible] THEMATIC MAPPER MUX UNIT TEST MODEL.. [illegible] S/N 3 PAGE 332
1981/11/30 12:39:[illegible] PENALTY FULL PERFORMANCE @ AMBIENT [illegible].
[illegible] A/D THRESHOLD TEST [illegible] 2, SENSOR=8)

HAC TEST 527

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO- 1:1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
105	1001 0111	1600.63	1619.1	0.3	0.4	6.0	1625.1	-6.1
106	1001 0110	1616.25	1639.4	-0.0	0.4	20.3	1641.0	-1.6
107	1001 0101	1631.88	1656.8	-0.3	-0.3	17.4	1656.9	-0.1
108	1001 0100	1647.50	1675.2	-0.3	-0.3	18.4	1672.8	2.5
109	1001 0011	1663.13	1685.0	0.3	0.3	9.8	1688.6	-3.6
110	1001 0010	1678.75	1707.9	0.3	0.3	22.9	1704.5	3.4
111	1001 0001	1694.38	1721.6	-0.3	-0.0	13.6	1720.4	1.2
112	1001 0000	1710.00	1738.7	-0.3	-0.3	17.1	1736.3	2.4
113	1000 1111	1725.63	1745.4	-0.1	-0.4	6.7	1752.1	-6.8
114	1000 1110	1741.25	1762.9	0.3	0.1	17.5	1768.0	-5.2
115	1000 1101	1756.88	1782.4	0.2	0.3	19.5	1783.9	-1.5
116	1000 1100	1772.50	1799.7	-0.4	0.3	17.3	1799.8	-0.1
117	1000 1011	1788.13	1811.1	-0.3	-0.3	11.4	1815.6	-4.5
118	1000 1010	1803.75	1831.3	0.3	-0.0	20.2	1831.5	-0.2
119	1000 1001	1819.38	1846.9	0.3	0.1	15.5	1847.4	-0.5
120	1000 1000	1835.00	1869.8	-0.0	0.4	22.9	1863.3	6.5
121	1000 0111	1850.63	1871.7	-0.5	-0.5	1.9	1879.1	-7.5
122	1000 0110	1866.25	1891.4	-0.4	-0.3	19.7	1895.0	-3.6
123	1000 0101	1881.88	1908.5	[illegible]	0.2	17.1	1910.9	-2.4
124	1000 0100	1897.50	1929.1	0.3	0.3	20.7	1926.8	2.4
125	1000 0011	1913.13	1937.3	-0.3	0.0	8.1	1942.6	-5.4
126	1000 0010	1928.75	1960.0	-0.4	0.3	22.7	1958.5	1.4
127	1000 0001	1944.38	1973.4	-0.0	-0.3	13.4	1974.4	-1.0
128	1000 0000	1960.00	1988.9	0.2	0.1	15.4	1990.3	-1.4
129	0111 1111	1975.63	2002.5	0.0	0.0	13.6	2006.1	-3.7
130	0111 1110	1991.25	2019.9	-0.4	-0.4	17.4	2022.0	-2.2

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE LEVELS RATIO 1:1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
131	0111 1101	2006.88	2037.7	-0.3	-0.4	17.9	2037.9	-0.2
132	0111 1100	2022.50	2053.7	0.4	0.0	17.9	2053.6	-0.1
133	0111 1011	2038.13	2066.4	0.3	0.4	12.7	2069.6	-3.3
134	0111 1010	2053.75	2088.6	-0.0	0.3	22.2	2085.5	3.1
135	0111 1001	2069.38	2102.8	-0.4	-0.4	14.2	2101.4	1.4
136	0111 1000	2085.00	2118.3	0.4	0.4	15.5	2117.3	1.0
137	0111 0111	2100.63	2127.0	0.3	0.3	8.7	2133.1	-6.1
138	0111 0110	2116.25	2148.4	0.3	0.4	21.4	2149.0	-0.6
139	0111 0101	2131.88	2164.2	-0.3	-0.1	15.8	2164.9	-0.7
140	0111 0100	2147.50	2185.5	-0.4	-0.3	21.3	2180.8	4.7
141	0111 0011	2163.13	2193.9	0.0	-0.3	7.7	2196.6	-3.4
142	0111 0010	2178.75	2217.1	0.3	0.4	23.9	2212.5	4.6
143	0111 0001	2194.38	2229.2	0.3	0.2	12.0	2228.4	0.8
144	0111 0000	2210.00	2241.0	-0.3	-0.2	11.8	2244.3	-3.3
145	0110 1111	2225.63	2253.5	-0.3	-0.4	12.5	2260.1	-6.7
146	0110 1110	2241.25	2272.3	0.4	0.0	18.8	2275.0	-3.7
147	0110 1101	2256.88	2290.1	0.3	0.3	17.8	2291.9	-1.8
148	0110 1100	2272.50	2309.5	0.0	0.4	19.4	2307.8	1.7
149	0110 1011	2288.13	2319.3	-0.4	-0.4	9.8	2324.7	-4.3
150	0110 1010	2303.75	2341.4	-0.3	-1.4	22.1	2339.5	1.9
151	0110 1001	2319.38	2354.9	0.3	0.3	13.5	2355.4	-0.5
152	0110 1000	2335.00	2374.4	0.5	0.5	19.5	2371.3	3.2
153	0110 0111	2350.63	2380.0	-0.3	-0.1	5.6	2387.2	-7.2
154	0110 0110	2366.25	2401.4	-0.4	-0.2	21.4	2403.0	-1.6
155	0110 0101	2381.88	2416.7	0.0	-0.3	15.3	2418.9	-2.2
156	0110 0100	2397.50	2440.7	0.4	0.3	23.9	2434.8	5.9
157	0110 0011	2413.13	2445.3	0.3	0.4	4.6	2450.7	-5.3

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO- 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
158	0110 0010	2428.75	2470.1	-0.5	-0.4	24.7	2466.5	3.6
159	0110 0001	2444.36	2481.7	-0.3	-0.3	11.6	2482.4	-0.7
160	0110 0000	2460.00	2498.7	0.4	0.0	17.0	2498.3	0.4
161	0101 1111	2475.63	2506.2	0.4	0.4	7.5	2514.2	-7.9
162	0101 1110	2491.25	2524.8	-0.1	0.4	18.6	2530.0	-5.2
163	0101 1101	2506.88	2543.6	-0.4	-0.4	18.8	2545.9	-2.3
164	0101 1100	2522.50	2559.7	-0.3	-0.3	16.1	2561.8	-2.1
165	0101 1011	2538.13	2572.1	0.4	0.3	12.5	2577.7	-5.5
166	0101 1010	2553.75	2593.6	0.4	0.3	21.5	2593.5	0.1
167	0101 1001	2569.38	2608.4	-0.3	-0.0	14.7	2609.4	-1.0
168	0101 1000	2585.00	2627.2	0.0	0.4	18.8	2625.3	1.9
169	0101 0111	2600.63	2633.2	0.0	0.4	6.0	2641.2	-7.9
170	0101 0110	2616.25	2653.7	0.3	0.4	20.4	2657.0	-3.3
171	0101 0101	2631.88	2669.7	0.3	0.3	16.0	2672.9	-3.2
172	0101 0100	2647.50	2691.2	-0.3	0.2	21.5	2688.8	2.4
173	0101 0011	2663.13	2699.0	-0.3	-0.3	7.8	2704.7	-5.7
174	0101 0010	2678.75	2722.4	0.3	0.1	23.4	2720.5	1.8
175	0101 0001	2694.38	2734.5	0.4	0.4	12.1	2736.4	-1.9
176	0101 0000	2710.00	2754.7	-0.1	0.2	20.2	2752.3	2.4
177	0100 1111	2725.63	2759.5	-0.6	-0.4	4.8	2768.2	-8.7
178	0100 1110	2741.25	2778.1	-0.4	-0.4	18.6	2784.0	-6.0
179	0100 1101	2756.88	2796.1	0.3	0.3	18.0	2799.9	-3.8
180	0100 1100	2772.50	2815.1	0.4	0.5	19.1	2815.8	-0.6
181	0100 1011	2788.13	2825.2	-0.4	0.0	10.1	2831.7	-6.4
182	0100 1010	2803.75	2847.1	-0.4	-0.4	21.9	2847.5	-0.4
183	0100 1001	2819.38	2861.2	-0.0	-0.3	14.1	2863.4	-2.2

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27

NOV 30 81

THRESHOLD NUM.	A/D OUTPUT THRESHOLD	TOTAL VOLTAGE (MV)	ANALOG INPUT VOLTAGE (MV) NOMINAL	TEST RATIO- TOPIC	1 SI METER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
183	0100 1000	2873.00	2884.8	0.4	0.5	23.6	2879.4	5.5
185	0100 0111	2850.63	2887.5	-0.0	0.1	2.7	2895.2	-7.6
187	0100 0110	2866.27	2906.9	-0.4	0.3	19.4	2911.0	-4.1
188	0100 0101	2881.89	2922.9	-0.3	0.3	16.0	2926.9	-4.0
189	0100 0100	2897.50	2946.7	0.4	1.9	23.8	2942.8	3.9
189	0100 0011	2913.13	2951.5	0.4	0.5	4.8	2958.7	-7.2
190	0100 0010	2928.75	2970.3	-0.1	0.4	23.8	2974.5	0.8
191	0100 0001	2944.38	2987.8	-0.6	0.4	17.5	2990.4	-2.6
192	0100 0000	2960.00	3003.5	-0.0	0.3	15.6	3006.3	2.8
193	0011 1111	2975.63	3014.0	0.4	0.4	18.5	3022.2	-8.2
193	0011 1110	2991.25	3032.6	2.1	2.1	18.6	3038.0	5.4
194	0011 1101	3006.88	3051.5	0.4	0.0	13.9	3052.9	-2.4
195	0011 1100	3022.50	3066.5	-0.4	-0.4	15.0	3069.8	3.2
195	0011 1011	3038.13	3080.6	0.1	0.4	14.1	3083.7	-5.0
196	0011 1010	3053.75	3101.7	0.3	0.4	21.1	3101.5	0.2
197	0011 1001	3069.38	3116.4	0.0	0.4	14.7	3117.4	-1.0
198	0011 1000	3085.00	3131.3	0.4	1.4	14.9	3133.3	-2.0
200	0011 0111	3100.63	3141.8	-0.4	-0.4	10.5	3149.2	-7.4
202	0011 0110	3116.25	3162.0	0.7	0.0	20.2	3165.0	-3.0
203	0011 0101	3131.88	3178.3	0.4	0.5	16.3	3181.9	2.4
204	0011 0100	3147.50	3199.0	0.7	0.3	20.7	3196.0	3.0
205	0011 0011	3163.13	3208.1	0.5	0.4	9.1	3212.7	-4.6
206	0011 0010	3178.75	3231.9	-0.0	0.4	23.8	3228.5	3.4
207	0011 0001	3194.38	3243.8	0.4	0.3	11.8	3244.4	-0.7
208	0011 0000	3210.00	3257.3	0.3	0.4	13.5	3260.3	3.0
209	0010 1111	3225.63	3268.9	0.4	0.0	11.6	3276.2	7.3

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 336
1981/11/30 12:39:53 EQUALITY FULL PERFORMANCE @ AMBIENT TEMP.
[illegible]

HAC TEST S27

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO- 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
210	0010 1110	3241.25	3287.6	-0.5	0.4	18.8	3292.0	-4.4
211	0010 1101	3256.88	3306.1	-0.1	-0.4	13.5	3307.9	-1.8
212	0010 1100	3272.50	3324.1	0.3	0.4	18.0	3323.8	0.3
213	0010 1011	3288.13	3334.9	-0.0	0.4	10.7	3339.7	-4.8
214	0010 1010	3303.75	3357.3	-0.4	-0.4	22.4	3355.6	1.7
215	0010 1001	3319.38	3371.4	-0.3	-0.3	14.1	3371.4	0.0
216	0010 1000	3335.00	3395.0	0.1	0.0	23.5	3387.3	7.7
217	0010 0111	3350.63	3396.3	0.4	0.4	1.3	3403.2	-6.9
218	0010 0110	3366.25	3417.3	-0.1	0.5	21.0	3419.1	-1.7
219	0010 0101	3381.88	3433.8	-0.5	0.4	16.5	3434.9	-1.1
220	0010 0100	3397.50	3459.5	-0.0	0.2	25.6	3450.8	8.7
221	0010 0011	3413.13	3462.8	0.4	0.4	3.4	3466.7	-3.8
222	0010 0010	3428.75	3486.8	0.4	0.4	24.0	3482.6	4.2
223	0010 0001	3444.38	3499.4	-0.4	-0.1	12.5	3498.4	0.9
224	0010 0000	3460.00	3520.7	-0.4	-0.3	21.4	3514.3	6.4
225	0001 1111	3475.63	3524.9	-0.0	-0.3	4.1	3530.2	-5.3
226	0001 1110	3491.25	3542.8	0.3	0.4	17.9	3546.1	-3.3
227	0001 1101	3506.88	3562.0	-0.1	0.4	19.2	3561.9	0.0
228	0001 1100	3522.50	3577.3	-0.4	0.4	15.4	3577.8	-0.5
229	0001 1011	3538.13	3591.6	-0.4	-0.3	14.3	3593.7	-2.0
230	0001 1010	3553.75	3612.2	0.3	-0.0	20.5	3609.6	2.6
231	0001 1001	3569.38	3627.7	0.3	0.4	15.5	3625.4	2.3
232	0001 1000	3585.00	3645.9	-2.6	0.2	18.2	3641.3	4.6
233	0001 0111	3600.63	3653.4	-0.5	-0.3	7.4	3657.2	-3.8
234	0001 0110	3616.25	3674.0	-0.1	-0.4	20.6	3673.1	0.9
235	0001 0101	3631.88	3690.4	0.3	0.4	16.4	3688.9	1.4
236	0001 0100	3647.50	3712.6	0.1	0.4	22.2	3704.8	7.8

ORIGINAL PAGE IS OF POOR QUALITY

[illegible] THEMATIC MAPPER MUX UNIT TEST MODEL [illegible] PAGE 337
[illegible] QUALITY [illegible] PERFORMANCE @ AMBIENT TEMP.
[illegible]

HAC TEST S27

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	TOTAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO NOMINAL	LOWER	1:1 UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
237	0001 0011	[illegible].13	3720.2	-0.4	0.0	7.6	3720.7	-0.5
238	0001 0010	3678.75	3744.6	-0.5	-0.3	24.5	3736.6	8.1
239	0001 0001	3194.38	3756.6	-0.1	0.4	11.9	3752.4	4.1
240	0001 0000	3710.00	3774.3	[illegible]	0.7	17.7	3768.3	6.0
241	0000 1111	3725.63	3781.2	-0.0	0.5	6.9	3784.2	2.9
242	0000 1110	3741.25	3800.1	0.7	-0.4	18.8	3800.1	0.0
243	0000 1101	3756.88	3819.2	-0.5	0.4	19.2	3815.9	3.3
244	0000 1100	3772.50	3837.1	0.3	0.1	17.8	3831.8	5.3
245	0000 1011	3788.13	3848.2	0.3	0.4	11.1	3847.7	0.6
246	0000 1010	3803.75	3869.2	-0.5	-0.0	21.7	3863.6	6.4
247	0000 1001	3819.38	3885.2	-0.4	-0.4	15.1	3879.4	5.8
248	0000 1000	3835.00	3910.3	-0.1	1.3	25.0	3895.3	14.9
249	0000 0111	[illegible]	3911.6	0.3	0.3	1.4	3911.2	0.4
250	0000 0110	[illegible]	3930.9	0.4	0.5	19.2	3927.1	3.8
251	0000 0101	3881.88	3948.2	-0.7	0.1	17.3	3942.9	5.2
252	0000 0100	3897.50	3971.5	-0.7	-0.5	23.3	3958.8	12.6
253	0000 0011	[illegible]	3977.3	0.3	0.0	5.8	3974.7	2.6
254	0000 0010	[illegible]	4000.7	0.5	0.8	23.4	3990.6	10.2
255	0000 0001	[illegible]	4013.8	-0.1	0.3	13.1	[illegible]	7.4

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27

NOV 30 '81

HS 236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 338
1981/11/30 12:46:16 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
[illegible] THRESHOLD TEST (BAND= 2, SENSOR=9)
[illegible]

CHECK 1) RMS ERROR, 2) THRESHOLD INCREMENT(+/- 0.0 = THRH INC = 31.2)
THE REMAINING DATA ARE FOR INFORMATION ONLY

[illegible] 15.901X -35.[illegible]MV

DEVIATION OF SLOPE FROM IDEAL IS: 1.768%
OFFSET IS: 35.8MV
COEFFICIENT OF DETERMINATION IS: R**2 .99998430
ANALOG INPUT DURING DC RESTORE IS:64.9MV

[illegible] RMS ERROR [illegible]

[illegible]

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
2[illegible].3MV	190	15.975MV	3.1MV	185	5.402MV

[illegible]

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
1.[illegible]	185	-0.0[illegible]MV	-1.[illegible]MV	161	.655MV

[illegible]

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
6.[illegible]	210	0.004MV	-3.2MV	98	.827MV

TEST PASSED

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27

ORIGINAL PAGE IS OF POOR QUALITY

[illegible] THERMAL [illegible] UNIT TEST [illegible] PAGE [illegible]

[illegible]

[illegible] SENSOR [illegible]

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	BEST FIT STRAIGHT LINE POINT	DEVIATION
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	26.9	-0.4	0.8			-19.9	-7.0
[illegible]	[illegible]	[illegible]	[illegible]	0.4	[illegible]	[illegible]		-4.0	-4.6
[illegible]	[illegible]	[illegible]	12.3	[illegible]	[illegible]	[illegible]		11.9	0.4
[illegible]	[illegible]	[illegible]	24.4	[illegible]	[illegible]	[illegible]		27.8	-3.4
[illegible]	[illegible]	[illegible]	40.8	[illegible]	[illegible]	[illegible]		[illegible]	-2.9
[illegible]	[illegible]	[illegible]	61.5	0.4	[illegible]	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	-4.4
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	119.1	0.4	[illegible]	[illegible]		[illegible]	-4.1
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	0.8
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	-1.7
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		186.8	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	-4.8
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	-0.1
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	4.0
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	4.1
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		341.7	[illegible]

HAC TEST S27

NOV 30 81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) NOMINAL	LEVELS RATIO- LOWER	1 :1 UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
26	1110 0110	366.250	375.0	-0.1	0.6	17.8	377.6	-2.6
27	1110 0101	381.875	396.0	-0.8	-0.8	21.0	393.5	2.4
28	1110 0100	397.500	416.1	-0.1	-0.7	20.1	409.4	6.7
29	1110 0011	413.125	423.9	0.7	0.7	7.7	425.3	-1.5
30	1110 0010	428.750	448.3	0.6	0.7	24.4	441.2	7.0
31	1110 0001	444.375	463.6	-0.8	0.0	15.3	457.1	6.5
32	1110 0000	460.000	473.2	-0.6	-0.5	9.6	473.0	0.2
33	1101 1111	475.625	485.6	-0.1	-0.7	12.4	488.9	-3.3
34	1101 1110	491.250	502.3	0.6	0.5	16.7	504.8	-2.5
35	1101 1101	506.875	523.3	-0.1	0.7	20.9	520.7	2.6
36	1101 1100	522.500	536.2	-0.6	-0.8	12.9	536.6	-0.5
37	1101 1011	538.125	552.5	-0.7	-0.8	16.3	552.5	-0.0
38	1101 1010	553.750	572.6	0.6	0.0	20.1	568.4	4.1
39	1101 1001	569.375	590.1	0.6	0.7	17.6	584.3	5.8
40	1101 1000	585.000	600.6	0.0	0.6	10.5	600.2	0.4
41	1101 0111	600.625	613.7	-0.8	0.8	13.0	616.1	-2.5
42	1101 0110	616.250	630.4	0.0	0.7	17.7	632.0	-1.7
43	1101 0101	631.875	650.6	0.5	0.7	20.2	647.9	2.7
44	1101 0100	647.500	667.3	0.6	0.6	17.7	663.8	3.4
45	1101 0011	663.125	680.2	-0.8	0.0	12.9	679.7	0.5
46	1101 0010	678.750	703.3	-0.7	-0.6	23.1	695.6	7.7
47	1101 0001	694.375	718.7	-0.1	-0.8	15.4	711.5	7.2
48	1101 0000	710.000	731.3	0.6	0.6	12.6	727.4	3.9
49	1100 1111	725.625	739.4	-0.0	0.6	8.0	743.3	-3.9
50	1100 1110	741.250	757.9	-0.7	-0.8	18.5	759.2	-1.3
51	1100 1101	756.875	778.3	-0.7	-0.6	20.4	775.1	3.1

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27

[illegible] MATIC [illegible] UNIT TEST [illegible] PAGE 341

[illegible] LINEARITY [illegible] PERFORMANCE [illegible]

[illegible]

[illegible]	A/D OUTPUT [illegible]	[illegible]	ANALOG INPUT VOLTAGE (MV) NOMINAL	LEVELS [illegible] LOWER	UPPER	[illegible] THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
[illegible]	[illegible] .100	[illegible]	791.6	0.7	[illegible]	[illegible].4	79[illegible].0	0.4
[illegible]	[illegible]	[illegible]	80[illegible].9	0.7	0.7	[illegible]	8[illegible].9	-1.0
[illegible]	1100 [illegible]	[illegible]	826.7	[illegible]	[illegible]	[illegible]	[illegible]	3.9
[illegible]	[illegible] 1001	[illegible]	844.6	[illegible]	[illegible]	[illegible]	8[illegible].7	[illegible].9
[illegible]	1100 1000	[illegible]	862.6	0.[illegible]	[illegible]	[illegible]	[illegible]	3.0
[illegible]	1100 [illegible]	[illegible]	8[illegible].7	[illegible]	[illegible]	4.0	[illegible]	-3.9
[illegible]	[illegible]	[illegible]	[illegible].8	0.6	[illegible]	17.1	[illegible]6.4	[illegible]
[illegible]	[illegible]	[illegible]	903.8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	1100 [illegible]	[illegible]	[illegible]	-0.6	[illegible]	20.7	[illegible]	[illegible]
[illegible]	1100 0011	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	934.1	[illegible]
[illegible]	[illegible] 0010	[illegible]	956.5	[illegible]	[illegible]	[illegible]	[illegible]	6.4
[illegible]	[illegible] 0001	[illegible]	[illegible]	[illegible]	[illegible]	14.8	965.9	[illegible]
[illegible]	1100 0000	[illegible]	978.6	-0.5	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]11.9	[illegible]	[illegible]	16.[illegible]	[illegible]	-1.7
[illegible]	[illegible] 1101	[illegible]	1023.4	0.6	[illegible].6	21.[illegible]	[illegible]	[illegible].9
[illegible]	1011 1100	[illegible]	1046.0	-0.7	[illegible]	12.6	10[illegible] 4	0.5
[illegible]	[illegible]	[illegible]	[illegible]	-0.8	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	1011 1010	[illegible]	108[illegible].7	-0.[illegible]	[illegible]	20.6	1077.2	[illegible]
[illegible]	[illegible]	[illegible]	[illegible].7	0.3	[illegible]	17.0	[illegible]	6.6
[illegible]	[illegible]	[illegible]	[illegible]106.3	[illegible]	[illegible]	[illegible]	[illegible].0	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible].9	[illegible]
[illegible]	1011 [illegible]	[illegible]	1139.1	-0.7	[illegible]	[illegible].4	1140.8	-1.8
[illegible]	[illegible] 0101	[illegible]	1[illegible].0	[illegible]	[illegible]	[illegible]	[illegible].7	4.3
[illegible]	[illegible]	[illegible]	1174.7	0.[illegible]	[illegible]	[illegible]	[illegible]	2.1
[illegible]	[illegible]	[illegible]	[illegible]87.9	[illegible]	[illegible]	[illegible]	11[illegible].5	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]12.0	-0.7	[illegible]	[illegible]	12[illegible].4	7.6

ORIGINAL PAGE IS OF POOR QUALITY

ORIGINAL PAGE IS
OF POOR QUALITY

[illegible]	[illegible]	[illegible] VALUE (DEG)	[illegible] LEVELS RATIO DURATION	[illegible]	[illegible] (PCT) 1:1 [illegible]	INCREASE (PCT) FREQ [illegible]	BEST FIT STRAIGHT LINE POINT	DEVIATION
77	1011 0481	1124.88	1227.7	-5.8	-6.8	17.7	1220.3	7.4
80	1111 0930	1210.10	1235.0	0.5	-0.1	7.1	1236.2	-1.2
81	1010 1111	1225.63	1247.6	0.7	0.7	12.6	1252.1	-4.5
82	1010 1110	1241.25	1272.7	-0.6	3.1	15.1	1268.0	-5.3
83	1010 1101	1256.88	1283.9	-0.6	-0.7	24.1	1283.9	2.9
84	1010 1100	1272.50	1302.6	5.1	-1.8	11.7	1299.8	2.7
85	1010 1011	1288.13	1314.7	0.8	0.6	11.6	1315.7	-1.6
86	1010 1010	1303.75	1335.7	0.5	9.6	21.0	1331.7	3.5
87	1010 1001	1319.38	1351.1	-5.6	0.0	17.9	1347.6	3.6
88	1010 1000	1335.00	1368.0	-0.8	-0.8	14.9	1363.5	4.5
89	1010 0111	[illegible]	1384.5	5.7	-5.1	[illegible]	1379.4	-4.8
90	1010 0110	1366.25	1401.3	0.7	0.7	16.7	1395.3	-4.0
91	1010 0101	1381.88	1417.7	-5.0	6.7	[illegible]	1411.2	2.4
92	1010 0100	1397.50	1432.4	-6.7	-9.3	18.8	1427.1	5.4
93	1010 0011	1413.13	1441.3	-0.8	-0.8	8.7	1443.6	-1.7
94	1010 0010	1428.75	1464.3	5.7	0.9	23.1	1458.2	5.5
95	1010 0001	1444.38	1479.3	0.7	6.7	14.9	1474.8	4.6
96	1010 0000	1460.00	1493.7	-0.7	-9.0	11.4	1490.7	3.1
97	1001 1111	1475.63	1501.4	-0.7	-6.7	7.7	1506.6	-5.2
98	1001 1110	1491.25	1517.8	0.7	[illegible]	16.7	1522.5	-4.7
99	1001 1101	1506.88	1539.1	0.6	0.6	21.3	1538.4	0.8
100	1001 1100	1522.50	1551.7	0.7	0.7	12.6	1554.3	-2.6
101	1001 1011	1538.13	1568.2	-0.8	-0.1	[illegible]	1570.2	-2.0
102	1001 1010	1553.75	1582.3	-0.7	-1.7	10.1	1586.1	2.3
103	1001 1001	1569.38	1595.5	0.7	-3.0	17.1	1602.0	2.5
104	1001 1000	1585.00	1615.1	0.7	0.4	9.6	1617.2	-2.8

HAC TEST S27

[illegible] THEMATIC [illegible] UNIT TEST [illegible] PAGE [illegible]

[illegible]

[illegible]

THRESHOLD NUMBER	A/D OUTPUT MEASURED	[illegible]	ANALOG INPUT VOLTAGE LEVELS RATIO NOMINAL	[illegible]	[illegible]	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
11	1001 [illegible]	[illegible]	1627.6	0.1	0.8	12.5	[illegible]	-6.2
11	1001 0110	[illegible]	1644.4	0.7	[illegible]	14.8	1649.7	-5.3
10	1001 [illegible]	[illegible]	1667.4	-0.8	[illegible]	[illegible]	[illegible]	1.9
[illegible]	1001 0100	[illegible]	1681.3	0.7	[illegible]	13.8	[illegible]	-0.2
10	1001 0011	[illegible]	1693.8	0.8	[illegible]	[illegible]	[illegible]	-3.5
[illegible]	1001 0010	[illegible]	1717.3	-0.7	[illegible]	[illegible]	[illegible]	4.1
[illegible]	1001 0001	[illegible]	1733.1	-0.7	[illegible]	[illegible]	1729.2	3.9
[illegible]	[illegible]	[illegible]	1748.8	0.1	-0.7	[illegible]	[illegible]	3.8
11	1000 1111	[illegible]	1753.3	0.7	[illegible]	4.4	[illegible]	-7.7
[illegible]	1000 1110	[illegible]	1770.3	0.8	0.4	[illegible]	[illegible]	-6.6
[illegible]	[illegible]	[illegible]	1792.4	-0.7	[illegible]	[illegible]	[illegible]	-0.4
11	1000 [illegible]	[illegible]	1804.9	-0.8	[illegible]	12.5	[illegible]	-3.3
[illegible]	1000 [illegible]	[illegible]	[illegible]	0.7	[illegible]	[illegible]	[illegible]	-3.6
[illegible]	1000 1010	[illegible]	[illegible]	0.4	[illegible]	20.5	[illegible]	0.0
[illegible]	1000 [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	17.3	[illegible]	1.5
[illegible]	1000 1000	[illegible]	[illegible]	[illegible]	[illegible]	17.7	[illegible]	3.3
12	[illegible]	[illegible]	[illegible]	-1.8	[illegible]	[illegible]	[illegible]	-7.3
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-7.6
12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1920.0	-1.0
[illegible]	[illegible]	[illegible]	[illegible]	-0.9	[illegible]	19.5	[illegible]	2.3
[illegible]	[illegible]	[illegible]	947.2	0.9	[illegible]	[illegible]	[illegible]	4.5
[illegible]	[illegible]	[illegible]	[illegible]	0.5	[illegible]	[illegible]	[illegible]	2.5
[illegible]	[illegible]	[illegible]	1984.7	0.7	[illegible]	14.5	[illegible]	1.2
[illegible]	[illegible]	[illegible]	994.9	[illegible]	[illegible]	10.7	[illegible]	-4.5
[illegible]	0111 [illegible]	[illegible]	2010.2	0.8	[illegible]	15.2	[illegible]	-5.2
[illegible]	0111 1110	[illegible]	[illegible]	-0.8	-0.8	15.1	2031.3	-6.0

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
131	0111 1101	2006.88	2043.8	0.8	-0.1	23.5	2047.2	1.6
132	0111 1100	2022.50	2062.8	0.6	0.6	14.9	2063.1	-0.3
133	0111 1011	2038.13	2076.1	-0.0	0.7	13.3	2079.0	-2.9
134	0111 1010	2053.75	2099.6	-0.7	-0.8	23.5	2094.9	4.7
135	0111 1001	2069.38	2117.5	-0.6	-0.8	18.0	2110.8	6.8
136	0111 1000	2085.00	2121.0	0.5	0.5	3.5	2126.7	-5.7
137	0111 0111	2100.62	2136.5	0.7	0.7	15.5	2142.6	-6.1
138	0111 0110	2116.25	2154.7	-0.6	0.0	18.2	2158.5	-3.8
139	0111 0101	2131.88	2177.4	-0.7	-0.8	22.7	2174.4	3.1
140	0111 0100	2147.50	2192.9	-0.0	-0.8	15.4	2190.3	2.6
141	0111 0011	2163.13	2202.5	0.8	0.8	9.6	2206.7	-3.7
142	0111 0010	2178.75	2228.2	0.8	0.7	25.7	2222.1	6.2
143	0111 0001	2194.38	2244.6	-0.8	-0.9	16.4	2238.0	6.6
144	0111 0000	2210.00	2251.6	-0.2	0.1	7.0	2253.9	-2.3
145	0110 1111	2225.63	2262.3	0.8	0.0	10.7	2269.8	-7.5
146	0110 1110	2241.25	2277.8	0.7	0.7	15.5	2285.7	-7.9
147	0110 1101	2256.88	2301.7	0.1	0.7	23.9	2301.6	0.1
148	0110 1100	2272.50	2320.4	-0.7	-0.7	18.6	2317.5	2.9
149	0110 1011	2288.13	2329.6	-0.7	-0.7	9.2	2333.4	-3.8
150	0110 1010	2303.75	2351.9	0.6	0.6	22.3	2349.3	2.6
151	0110 1001	2319.38	2369.6	0.7	0.8	17.7	2365.2	4.5
152	0110 1000	2335.00	2384.5	-0.6	0.0	14.8	2381.1	3.4
153	0110 0111	2350.63	2390.0	-0.8	-0.7	5.6	2397.0	-7.0
154	0110 0110	2366.25	2407.7	0.0	-0.5	17.7	2412.9	-5.2
155	0110 0101	2381.88	2429.6	0.6	0.6	21.9	2428.8	0.8
156	0110 0100	2397.50	2448.8	0.7	0.6	19.2	2444.7	4.1
157	0110 0011	2413.13	2456.1	-0.9	-0.9	7.2	2460.6	-4.5

ORIGINAL PAGE IS OF POOR QUALITY

HS-[illegible] THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE [illegible]

19817 [illegible] 12:46:30 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] THRESHOLD TEST (BAND= 2, SENSOR=9) [illegible]

HAC TEST S27

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO- 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
158	0110 0010	2428.75	2482.4	-0.8	-0.8	26.3	2476.5	5.9
159	0110 0001	2444.38	2496.2	0.8	0.1	13.8	2492.4	3.8
160	0110 0000	2460.00	2506.1	0.6	0.7	9.9	2508.3	-2.2
161	0101 1111	2475.63	2517.3	-1.8	-0.1	11.2	2524.2	-6.9
162	0101 1110	2491.25	2531.2	-0.7	-0.7	13.8	2540.1	-5.9
163	0101 1101	2506.88	2555.4	-0.8	-0.6	24.3	2556.0	-0.6
164	0101 1100	2522.50	2569.7	0.6	0.8	14.2	2571.9	-2.2
165	0101 1011	2538.13	2582.4	0.8	0.8	12.8	2587.8	-5.4
166	0101 1010	2553.75	2605.4	-0.7	-0.1	22.9	2603.7	1.7
167	0101 1001	2569.38	2623.7	-0.9	-1.0	18.3	2619.6	4.1
168	0101 1000	2585.00	2631.0	1.0	0.7	7.3	2635.5	-4.5
169	0101 0111	2600.63	2642.7	0.7	0.8	11.7	2651.4	-8.7
170	0101 0110	2616.25	2659.9	0.6	0.7	17.2	2667.3	-7.4
171	0101 0101	2631.88	2683.3	0.7	0.8	23.4	2683.2	0.1
172	0101 0100	2647.50	2699.4	-0.6	0.7	16.1	2699.1	0.3
173	0101 0011	2663.13	2709.2	0.9	0.2	9.7	2715.0	-5.8
174	0101 0010	2678.75	2734.1	0.7	0.8	24.9	2730.9	3.2
175	0101 0001	2694.38	2749.4	0.0	0.9	15.3	2746.8	2.5
176	0101 0000	2710.00	2763.9	0.9	0.8	14.5	2762.7	1.1
177	0100 1111	2725.63	2769.3	0.8	-0.8	5.5	2778.6	-9.3
178	0100 1110	2741.25	2783.7	0.7	0.7	14.3	2794.5	-10.8
179	0100 1101	2756.88	2807.7	0.6	0.6	24.0	2810.4	-2.7
180	0100 1100	2772.50	2822.1	0.9	0.0	14.4	2826.3	-4.2
181	0100 1011	2788.13	2836.2	0.9	-0.9	14.0	2842.2	-6.0
182	0100 1010	2803.75	2858.6	-0.1	0.4	22.4	2858.1	0.5
183	0100 1001	2819.38	2875.1	1.1	1.1	16.5	2874.0	1.1

ORIGINAL PAGE IS OF POOR QUALITY

US-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 346
1981/11/30 12:46:30 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
[illegible] THRESHOLD TEST (BAND= 2, SENSOR=9)

HAC TEST S27

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
184	0100 1000	2835.00	2893.4	0.6	0.6	18.3	2889.9	3.5
185	0100 0111	2850.63	2896.5	-0.8	-0.9	3.1	2905.8	-9.3
186	0100 0110	2866.25	2913.9	-0.8	-0.8	17.4	2921.7	-7.8
187	0100 0101	2881.88	2935.5	0.4	-0.1	21.6	2937.6	-2.1
188	0100 0100	2897.50	2956.3	0.7	0.8	20.8	2953.5	2.8
189	0100 0011	2913.13	2962.2	0.0	0.6	5.9	2969.4	-7.2
190	0100 0010	2928.75	2988.5	-0.9	-0.8	26.3	2985.3	3.2
191	0100 0001	2944.38	3003.2	-0.0	-0.8	14.7	3001.2	2.0
192	0100 0000	2960.00	3011.3	0.6	0.6	8.1	3017.1	-5.8
193	0011 1111	2975.63	3023.9	0.8	0.8	12.5	3033.0	-9.2
194	0011 1110	2991.25	3046.2	-0.8	0.0	22.4	3048.9	-2.7
195	0011 1101	3006.88	3064.1	-0.8	-0.6	17.8	3064.8	-0.7
196	0011 1100	3022.50	3077.7	0.0	-0.8	13.6	3080.7	-3.0
197	0011 1011	3038.13	3091.2	0.8	0.8	13.4	3096.6	-5.5
198	0011 1010	3053.75	3113.4	0.0	0.8	22.2	3112.5	0.8
199	0011 1001	3069.38	3132.7	-0.7	-0.8	19.3	3128.4	4.3
200	0011 1000	3085.00	3136.3	-0.7	-0.7	3.6	3144.3	-8.0
201	0011 0111	3100.63	3151.7	0.8	0.6	15.4	3160.2	-8.5
202	0011 0110	3116.25	3169.0	0.7	0.8	17.2	3176.1	-7.1
203	0011 0101	3131.88	3192.0	-0.1	0.7	23.0	3192.0	0.0
204	0011 0100	3147.50	3207.9	0.3	0.8	15.8	3207.9	-0.0
205	0011 0011	3163.13	3219.6	-0.1	-0.8	11.7	3223.8	-4.2
206	0011 0010	3178.75	3244.1	0.6	0.7	24.5	3239.7	4.3
207	0011 0001	3194.38	3259.8	0.9	0.9	15.8	3255.6	4.2
208	0011 0000	3210.00	3272.6	-0.8	-0.0	12.8	3271.5	1.1
209	0010 1111	3225.63	3279.4	-0.9	-0.8	6.8	3287.4	-8.0

ORIGINAL PAGE IS OF POOR QUALITY

[illegible] TEST [illegible] PAGE [illegible]

[illegible]

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	[illegible]	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO- [illegible] NOMINAL	LOWER	UPPER	INCREASE FROM ELEV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
[illegible]	0010 1110	3241.25	3294.5	-0.0	6.5	15.0	3303.3	-8.9
211	0010 1101	[illegible]	3318.2	0.6	0.6	23.8	3319.2	-1.0
[illegible]	0010 1100	[illegible]	[illegible]	-0.1	0.8	17.7	[illegible]	0.9
[illegible]	0010 1011	[illegible]	3347.0	-0.9	-0.9	11.0	[illegible]	-4.1
[illegible]	0010 1010	[illegible]	3370.2	-0.2	-0.7	23.2	[illegible]	3.2
[illegible]	0010 1001	[illegible]	[illegible]	0.9	0.0	16.5	[illegible]	3.9
[illegible]	0010 1000	[illegible]	[illegible]	0.6	0.6	14.8	3398.7	2.8
[illegible]	0010 0111	[illegible]	3406.8	0.0	0.8	5.3	3414.6	-7.8
[illegible]	0010 0110	[illegible]	[illegible]	-0.3	0.7	18.4	[illegible]	-5.3
[illegible]	0010 0101	[illegible]	3448.0	-0.1	-0.8	[illegible]	3446.4	1.6
[illegible]	0010 0100	[illegible]	3466.7	0.7	0.8	8.6	3462.3	4.3
[illegible]	0010 0011	[illegible]	3474.3	0.6	0.8	7.6	3478.2	-4.0
[illegible]	0010 0010	[illegible]	[illegible]	-0.6	[illegible]	26.3	[illegible]	6.4
[illegible]	0010 0001	3444.38	3515.8	-1.0	0.9	[illegible]	[illegible]	[illegible]
[illegible]	0010 0000	[illegible]	[illegible]	-0.1	0.7	14.3	[illegible]	4.3
[illegible]	0001 1111	[illegible]	[illegible]	0.7	0.7	4.8	[illegible]	-6.9
[illegible]	0001 1110	[illegible]	[illegible]	-0.1	[illegible]	21.3	[illegible]	[illegible]
[illegible]	0001 1101	[illegible]	[illegible]	0.7	-0.8	18.6	[illegible]	1.3
[illegible]	0001 1100	[illegible]	[illegible]	-0.9	-0.7	14.7	[illegible]	0.1
[illegible]	0001 1011	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-2.7
[illegible]	0001 1010	[illegible]	[illegible]	0.6	0.7	[illegible]	[illegible]	[illegible]
[illegible]	0001 1001	[illegible]	[illegible]	-0.1	[illegible]	18.1	[illegible]	[illegible]
[illegible]	0001 1000	[illegible]	[illegible]	-0.7	0.7	8.5	[illegible]	-1.6
[illegible]	0001 0111	[illegible]	3664.8	-0.1	-0.9	13.2	[illegible]	4.3
[illegible]	0001 0110	[illegible]	3630.9	0.7	[illegible]	16.1	[illegible]	-4.1
[illegible]	0001 0101	[illegible]	3703.8	0.7	0.7	23.0	3700.8	5.0
[illegible]	0001 0100	[illegible]	[illegible]	-0.8	-0.1	17.2	3716.7	4.1

ORIGINAL PAGE IS OF POOR QUALITY

[illegible] BY 30 81

THRESHOLD NUMBER	6/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO 1:1 NOMINAL	LOWER	UPPER	DECREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
232	0001 0011	3663.13	3732.5	-0.9	-0.8	11.5	3732.6	-0.2
233	0001 0010	3678.75	3757.1	-0.2	-0.7	24.7	3748.5	8.6
234	0001 0001	3694.38	3772.3	0.8	0.8	15.1	3764.4	7.8
235	0001 0000	3710.00	3788.7	0.2	0.7	16.4	3780.3	8.4
236	0000 1111	3725.63	3792.8	-0.9	-0.9	4.1	3796.2	-3.4
237	0000 1110	3741.25	3814.9	-0.9	-0.8	22.1	3812.2	2.7
238	0000 1101	3756.88	3831.2	0.8	0.0	16.3	3828.1	3.1
239	0000 1100	3772.50	3844.4	0.7	0.7	13.2	3844.0	0.5
240	0000 1011	3788.13	3859.9	-0.2	0.9	15.5	3859.9	0.1
241	0000 1010	3803.75	3873.8	-0.8	-0.8	23.9	3875.8	8.1
242	0000 1001	3819.38	3901.1	1.1	-0.8	17.3	3891.7	9.4
243	0000 1000	3835.00	3918.1	-0.2	-0.1	17.0	3907.6	10.6
244	0000 0111	3850.63	3921.4	0.9	0.8	3.2	3923.5	-2.1
245	0000 0110	3866.25	3939.3	-0.8	0.1	17.9	3939.4	0.1
246	0000 0101	3881.88	3962.2	-1.2	-0.8	22.9	3955.3	7.0
247	0000 0100	3897.50	3983.4	-0.1	-0.8	21.1	3971.2	12.2
248	0000 0011	3913.13	3989.3	0.7	0.8	6.0	3987.1	2.3
249	0000 0010	3928.75	4014.7	-0.2	0.9	25.3	4003.0	11.7
250	0000 0001	3944.38	4030.8	-0.9	-0.8	16.1	4018.9	11.9

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27

US 2 .. THEMATIC MAPPER MSX UNIT TEST MODEL .. FLT. S/N 1 PAGE 349

[illegible] 230 12:[illegible] PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible]

CL [illegible] RMS ERROR, 2) THRESHOLD INCREMENT(+/- 0.0 - THRH INC +- 31.2)
THE [illegible] DATA ARE FOR INFORMATION ONLY

[illegible] STRATEGIC [illegible] TS: [illegible] -37.2MV

[illegible] TS: 1.67%
[illegible] TS:-37.2MV
[illegible] OF DETERMINATION TS: R**2= .99998560
[illegible] INPUT DURING DC RESTORE TS:64.5MV

[illegible] RMS ERROR [illegible]

[illegible]

MAXIMUM	THRESHOLD	AVERAGE	MINIMUM	THRESHOLD	STANDARD DEVIATION
[illegible]MV	158	15.950MV	1.[illegible]MV	185	5.661MV

[illegible]

MAXIMUM	THRESHOLD	AVERAGE	MINIMUM	THRESHOLD	STANDARD DEVIATION
[illegible]	132	-0.14[illegible]MV	-[illegible]	203	.896MV

[illegible]

MAXIMUM	THRESHOLD	AVERAGE	MINIMUM	THRESHOLD	STANDARD DEVIATION
[illegible]MV	[illegible]	1.039MV	-[illegible]	[illegible]	.752MV

[illegible]

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST 527

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO NOMINAL	LOWER	1 :1 UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
THE FOLLOWING DATA ARE FOR INFORMATION ONLY								
1	1111 1111	-24.375	-28.7	0.2	0.8		-21.3	-7.4
2	1111 1110	-8.750	-8.3	-3.9	0.0	20.4	-5.4	-2.9
3	1111 1101	6.875	10.2	-0.7	-0.7	18.5	10.5	-0.2
4	1111 1100	22.500	21.4	-0.0	0.7	11.2	26.4	-4.9
5	1111 1011	38.125	38.1	0.7	0.8	16.7	42.2	-4.1
6	1111 1010	53.750	61.5	0.5	0.6	23.3	58.1	3.4
7	1111 1001	69.375	76.9	-0.9	0.0	15.4	74.0	2.9
8	1111 1000	85.000	88.0	-0.6	-0.4	11.1	89.9	-1.9
9	1111 0111	100.625	99.6	0.7	0.0	11.5	105.8	-6.2
10	1111 0110	116.250	118.8	0.6	0.2	19.2	121.7	-2.9
11	1111 0101	131.875	137.7	-0.1	0.9	18.9	137.6	0.1
12	1111 0100	147.500	154.8	-0.7	-0.6	17.0	153.5	1.3
13	1111 0011	163.125	167.1	6.8	-0.7	12.3	169.3	-2.1
14	1111 0010	178.750	192.3	0.5	0.0	25.2	185.2	7.1
15	1111 0001	194.375	203.7	0.7	0.8	11.4	201.1	2.6
16	1111 0000	210.000	212.9	-0.7	-0.0	9.2	217.0	-4.1
17	1110 1111	225.625	227.7	-0.7	-0.7	14.7	232.9	-5.2
18	1110 1110	241.250	244.5	-0.1	-0.7	16.9	248.8	-4.2
19	1110 1101	256.875	264.0	0.6	0.8	20.5	264.7	0.4
20	1110 1100	272.500	279.5	0.6	0.6	14.5	280.5	-1.0
21	1110 1011	288.125	294.4	-0.8	0.1	14.9	296.4	-2.0
22	1110 1010	303.750	318.0	0.7	-0.7	23.6	312.3	5.7
23	1110 1001	319.375	331.5	0.9	0.0	13.5	328.2	3.3
24	1110 1000	335.000	348.8	0.6	0.7	17.2	344.1	4.7
25	1110 0111	350.625	355.0	-0.0	0.8	6.2	360.0	-5.0

ORIGINAL PAGE IS OF POOR QUALITY

FAC TEST S27

NOV 30 '81

DIGITAL INPUT WORD NUMBER	GAIN OUTPUT TIME SCALE	TOTAL INPUT (DEG)	ANALOG INPUT OR LOGIC LEVELS SCALING NOMINAL	ERROR	BUFFER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
26	1110 0110	[illegible]	375.2	-0.8	0.2	20.3	375.9	0.6
27	1110 0101	[illegible]	394.0	-0.9	0.8	[illegible]	391.8	2.3
28	1110 0100	[illegible]	413.8	0.4	0.1	19.8	407.6	6.2
29	1110 0011	413.125	421.7	0.7	0.7	[illegible]	423.5	-1.9
30	1110 0010	[illegible]	440.6	-0.3	0.0	26.9	439.4	9.2
31	1110 0001	444.[illegible]	459.8	-1.0	0.9	11.9	[illegible]	4.5
32	1110 0000	[illegible]	470.8	-0.0	0.6	11.0	[illegible]	0.4
33	1101 1111	[illegible]	482.8	0.6	0.7	12.0	467.1	-9.3
	1101 1110	[illegible]	501.6	0.5	[illegible]	18.8	[illegible]	-1.3
35	1101 1101	[illegible]	521.4	0.8	-0.0	19.7	[illegible]	2.5
36	1101 1100	[illegible]	532.6	-0.7	[illegible]	[illegible]	[illegible]	-2.1
37	1101 1011	[illegible]	549.6	0.6	0.0	16.9	548.6	-1.1
38	1101 1010	[illegible]	572.2	0.6	0.6	22.7	[illegible]	[illegible]
39	1101 1001	[illegible]	587.3	-0.1	0.8	15.0	587.4	4.9
40	1101 1000	[illegible]	602.1	-1.8	1.1	14.8	[illegible]	3.6
41	1101 0111	[illegible]	611.5	0.8	0.7	9.4	614.2	-2.7
42	1101 0110	[illegible]	629.0	0.6	0.0	17.5	630.1	-1.0
43	1101 0101	[illegible]	648.6	0.6	0.7	19.5	[illegible]	2.6
44	1101 0100	[illegible]	667.9	-1.6	0.1	17.4	651.8	4.1
45	1101 0011	[illegible]	677.7	-0.7	0.7	[illegible]	677.7	-0.0
46	1101 0010	[illegible]	693.9	-0.1	[illegible]	[illegible]	[illegible]	9.4
47	1101 0001	[illegible]	714.5	0.9	[illegible]	[illegible]	709.5	[illegible]
48	1101 0000	[illegible]	727.7	0.6	0.6	12.7	725.4	1.8
49	1100 1111	[illegible]	737.8	0.7	0.1	10.6	741.3	3.4
50	1100 1110	[illegible]	756.7	-0.7	0.3	18.9	757.1	-0.5
51	1100 1101	[illegible]	774.7	0.7	-0.0	18.0	773.0	1.7

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST 527

NOV 30 '81

US 235 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 352
1981/11/30 12:53:06 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
[illegible]

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
52	1100 1100	772.500	789.2	0.7	0.7	14.5	788.9	0.3
53	1100 1011	788.125	803.4	0.0	0.9	14.2	804.8	-1.4
54	1100 1010	803.750	827.1	-0.7	-0.7	23.7	820.7	6.4
55	1100 1001	819.375	842.1	-0.9	-0.8	14.9	836.6	5.5
56	1100 1000	835.000	860.4	0.5	-0.0	18.3	852.5	7.9
57	1100 0111	850.625	864.3	0.7	0.7	3.9	868.4	-4.0
58	1100 0110	866.250	883.6	-0.8	0.0	19.3	884.2	-0.6
59	1100 0101	881.875	902.7	-0.8	-0.8	19.0	900.1	2.5
60	1100 0100	897.500	923.8	0.1	-0.6	21.2	916.0	7.8
61	1100 0011	913.125	930.2	0.7	0.7	6.3	931.9	-1.7
62	1100 0010	928.750	955.7	0.8	0.8	25.6	947.8	8.0
63	1100 0011	944.375	968.5	-1.1	0.0	12.8	963.7	4.9
64	1100 0000	960.000	976.5	-0.6	-0.6	[illegible].9	979.6	-3.1
65	1011 1111	975.625	992.4	0.7	0.0	15.9	995.5	-3.0
66	1011 1110	991.250	1011.7	0.7	0.6	19.3	1011.3	0.4
67	1011 1101	1006.88	1030.0	-0.1	0.7	18.3	1027.2	2.8
68	1011 1100	1022.50	1040.8	0.9	-0.9	10.8	1043.1	2.3
69	1011 1011	1038.13	1059.5	0.8	-0.6	18.6	1059.0	0.5
70	1011 1010	1053.75	1081.5	0.6	0.0	22.0	1074.9	6.6
71	1011 1001	1069.38	1095.9	0.9	0.8	14.4	1090.8	[illegible]
72	1011 1000	1085.00	1105.8	0.6	1.7	9.9	1106.7	0.9
73	1011 0111	1100.63	1120.2	0.3	0.7	14.4	1122.5	[illegible]
74	1011 0110	1116.25	1138.0	0.0	-0.8	17.8	1138.4	-0.4
75	1011 0101	1131.88	1156.8	0.7	0.9	18.7	1154.3	2.4
76	1011 0100	1147.50	1172.1	0.6	0.7	15.4	1170.2	1.9
77	1011 0011	1163.13	1185.9	-0.7	-0.0	13.8	1186.1	-0.1
78	1011 0010	1178.75	1211.5	1.0	-0.9	25.5	1202.0	9.5

ORIGINAL PAGE IS OF POOR QUALITY

[illegible] ANALOG [illegible] UNIT TEST [illegible] PAGE [illegible]

[illegible] 12:?3:06 [illegible] PERFORMANCE [illegible]

Input Number	A/D Output Threshold	Scan Value (uV)	Analog Input Voltage (uV) Levels Ratio Nominal	Error	1:1 Error	Increase from Prev Threshold	Best Fit Straight Line Point	Deviation
[illegible]	[illegible]	[illegible]	[illegible]2.5	0.8	[illegible].0	11.0	[illegible]217.9	[illegible].7
[illegible]	1011 0000	[illegible]	[illegible]2.4	0.7	[illegible]	9.8	[illegible]	-1.4
[illegible]	1010 [illegible]	[illegible]	1245.1	-0.0	[illegible].8	[illegible]	1249.6	-4.6
[illegible]	[illegible] 1110	[illegible]	1263.8	0.5	[illegible].2	[illegible]	[illegible]	-1.7
[illegible]	[illegible]	[illegible].88	1283.4	-0.8	[illegible].8	19.6	1281.4	2.6
[illegible]	1010 [illegible]	[illegible]	1295.8	0.6	[illegible]	12.4	[illegible]	-1.[illegible]
[illegible]	1010 1011	[illegible].13	1311.6	0.6	[illegible]	[illegible]	[illegible]313.2	-1.6
[illegible]	[illegible]	[illegible]	1335.0	-6.7	-[illegible]	23.4	[illegible]	[illegible].9
[illegible]	1010 [illegible]	[illegible]	1349.3	[illegible]	[illegible].8	14.3	[illegible]	4.3
[illegible]	[illegible]	[illegible]	1366.4	-0.9	[illegible].0	17.1	[illegible]	[illegible]
[illegible]	[illegible]	[illegible].63	[illegible]371.9	[illegible]	[illegible]	[illegible]	[illegible].7	-4.[illegible]
[illegible]	1010 [illegible]	[illegible]	[illegible]90.1	0.3	[illegible]	[illegible]	1392.6	-2.6
[illegible]	[illegible]	[illegible]	1410.1	[illegible]	[illegible]	[illegible]	[illegible]	1.6
[illegible]	[illegible]	[illegible]	1429.7	-0.6	[illegible]	[illegible]	[illegible]4.4	[illegible]
[illegible]	1010 [illegible]	[illegible]	1437.6	[illegible]	[illegible]	[illegible].9	1440.3	-[illegible].7
[illegible]	[illegible]	[illegible]	1463.7	0.[illegible]	[illegible].6	[illegible]	[illegible]	[illegible]
[illegible]	1010 0001	[illegible]	1474.9	[illegible]	[illegible].9	11.1	[illegible]472.1	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]491.1	-0.[illegible]	[illegible].6	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	1498.7	[illegible]	-[illegible].7	[illegible].6	1503.8	[illegible]
[illegible]	1001 1110	[illegible]	[illegible]17.0	[illegible]	-[illegible]	18.2	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	6.8	[illegible]	[illegible]6	[illegible]
[illegible]	1001 1100	[illegible]	[illegible]6	0.7	[illegible]	10.[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible].4	0.8	[illegible]	19.3	[illegible].4	2.0
[illegible]	1001 1010	[illegible]	[illegible]87.3	-0.0	[illegible].7	21.9	[illegible].3	4.0
[illegible]	[illegible]	[illegible]	[illegible]01.6	0.8	0.9	1[illegible]4	[illegible]	[illegible]
[illegible]	1001 1000	[illegible].00	1611.6	0.8	[illegible]	[illegible].9	1615.0	-1.[illegible]

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO 1:1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
105	1001 0111	1600.63	1625.7	-0.8	0.0	12.1	1630.9	-5.3
106	1001 0110	1616.25	1643.0	-0.8	-0.7	17.4	1646.8	-3.8
107	1001 0101	1631.88	1662.3	0.8	-0.1	19.3	1662.7	-0.3
108	1001 0100	1647.50	1678.3	0.6	0.6	16.0	1678.6	-0.2
109	1001 0011	1663.13	1690.9	-0.0	0.8	12.6	1694.5	-3.5
110	1001 0010	1678.75	1716.4	-1.0	-1.0	25.5	1710.4	6.1
111	1001 0001	1694.38	1728.9	-0.9	-0.8	12.5	1726.2	2.7
112	1001 0000	1710.00	1744.9	0.3	-0.2	16.0	1742.1	2.8
113	1000 1111	1725.63	1750.4	0.7	0.7	5.5	1758.0	-7.6
114	1000 1110	1741.25	1769.3	-3.5	-0.1	18.9	1773.9	-4.6
115	1000 1101	1756.88	1788.6	-0.8	-0.8	19.3	1789.8	-1.2
116	1000 1100	1772.50	1801.8	-0.0	-0.7	13.2	1805.7	-3.9
117	1000 1011	1788.13	1816.9	0.8	0.8	15.1	1821.6	-4.6
118	1000 1010	1803.75	1839.0	0.9	0.9	22.0	1837.4	1.5
119	1000 1001	1819.38	1854.9	-0.8	0.0	15.9	1853.3	1.6
120	1000 1000	1835.00	1873.6	0.7	-0.6	18.7	1869.2	4.4
121	1000 0111	1850.63	1877.1	0.8	0.0	3.5	1885.1	-8.0
122	1000 0110	1866.25	1894.8	0.6	0.7	17.8	1901.0	-6.1
123	1000 0101	1881.88	1914.6	-0.0	0.8	19.7	1916.9	-2.3
124	1000 0100	1897.50	1935.7	0.6	0.6	21.2	1932.8	3.0
125	1000 0011	1913.13	1943.8	-0.8	-0.8	8.1	1948.7	-4.8
126	1000 0010	1928.75	1968.2	0.8	-0.0	24.4	1964.5	3.6
127	1000 0001	1944.38	1980.3	0.8	0.8	12.1	1980.4	-0.1
128	1000 0000	1960.00	1993.6	-0.6	0.0	13.3	1996.3	-2.7
129	0111 1111	1975.63	2007.3	-0.9	-0.8	13.6	2012.2	-4.9
130	0111 1110	1991.25	2023.6	-0.0	-0.7	16.3	2028.1	-4.5

ORIGINAL PAGE IS OF POOR QUALITY

[illegible] NUMBER	ADD OUTPUT TIME SLOTS	[illegible] VOLTS (DBV)	ANALOG INPUT VOLTAGE LEVELS RAISED NOMINAL	LOWER	[illegible] %	AVERAGE [illegible] TIME SLOTS	[illegible] STRAIGHT LINE FOUNT	DEVIATION
13[illegible]	0111 1101	2004.58	2046.0	-[illegible].6	3.6	22.4	2044.6	2.0
1[illegible]	0111 1100	20[illegible].50	2056.3	1.6	1.6	9.4	2059.9	-4.[illegible]
1[illegible]	0111 1011	[illegible]	2074.0	-[illegible].6	0.0	13.7	2075.7	-1.7
1[illegible]	0111 1010	[illegible]	2096.0	-0.9	-0.9	23.9	2091.6	6.3
1[illegible]	0111 1001	2[illegible]	2109.6	0.9	0.0	11.6	2107.[illegible]	2.1
1[illegible]	0111 1000	[illegible]	2123.6	0.8	0.8	14.0	2123.4	0.2
1[illegible]	0111 0111	[illegible]	2133.4	-0.1	[illegible].8	9.8	2139.3	5.9
1[illegible]	0111 0110	[illegible]	2152.9	-0.7	0.8	19.5	2155.2	-2.3
1[illegible]	0111 0101	[illegible]	2174.2	0.7	0.6	21.2	[illegible]	3.1
1[illegible]	0111 0100	[illegible]	2187.1	0.7	[illegible]	12.9	2187.0	0.1
14[illegible]	0111 0011	[illegible]	2199.2	0.6	0.7	12.1	2202.8	-3.6
1[illegible]	0111 0010	[illegible]	2227.6	0.9	0.1	18.4	[illegible]	8.9
1[illegible]	0111 0001	[illegible]	2237.1	-1.9	0.9	9.5	[illegible]	2.5
1[illegible]	0111 0000	[illegible]	2246.5	0.6	0.6	8.4	[illegible]	-1.0
14[illegible]	0110 1[illegible]	[illegible]	2259.1	1.8	[illegible]	13.6	[illegible]	-7.3
14[illegible]	0110 1110	[illegible]	2271.8	0.8	0.7	14.7	[illegible]	-6.5
14[illegible]	0110 1101	[illegible]	2299.3	-0.8	-0.1	[illegible]	2298.2	1.1
1[illegible]	0110 1100	[illegible]	2312.0	-0.8	0.8	1[illegible].7	[illegible]	-7.1
1[illegible]	0110 1011	[illegible]	2325.8	0.8	0.0	13.8	2329.9	-4.1
1[illegible]6	0110 1010	[illegible]	2339.8	0.8	0.7	24.0	2335.8	4.0
1[illegible]	0110 1001	[illegible]	2362.2	1.0	0.9	1[illegible].4	2361.7	0.5
1[illegible]	0110 1000	[illegible]	2382.0	0.6	-0.6	19.8	2377.6	4.4
1[illegible]	0110 0111	[illegible]	2386.7	-0.8	-0.8	4.6	2393.5	-6.8
1[illegible]	0110 0110	[illegible]	2405.1	0.7	0.0	18.4	2409.4	-4.3
1[illegible]	0110 0101	[illegible]	2425.8	-2.2	0.8	20.8	2425.3	0.6
1[illegible]	0110 0100	[illegible]	2445.0	0.7	0.0	19.2	2451.1	-3.9
1[illegible]7	0110 0011	[illegible]	2452.2	-0.5	0.4	[illegible].1	2457.0	-4.9

ORIGINAL PAGE IS
OF POOR QUALITY

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
158	0110 0010	2428.75	2481.0	0.0	-0.8	28.8	2472.9	8.1
159	0110 0001	2444.38	2488.8	0.8	0.9	7.8	2488.8	-0.0
160	0110 0000	2460.00	2505.1	0.7	0.7	16.3	2504.7	0.4
161	0101 1111	2475.63	2512.8	-0.8	0.0	7.7	2520.6	-7.7
162	0101 1110	2491.25	2529.1	-0.8	-0.7	16.2	2536.5	-7.4
163	0101 1101	2506.88	2551.5	0.6	-0.1	22.4	2552.4	-0.9
164	0101 1100	2522.50	2560.9	0.8	0.8	9.5	2568.2	-7.3
165	0101 1011	2538.13	2578.9	-0.1	0.8	18.0	2584.1	-5.2
166	0101 1010	2553.75	2603.4	-0.8	-0.8	24.4	2600.0	3.4
167	0101 1001	2569.38	2616.5	-1.0	-0.9	13.1	2615.9	0.6
168	0101 1000	2585.00	2633.2	0.8	0.0	16.7	2631.8	1.4
169	0101 0111	2600.63	2639.0	0.8	0.9	5.8	2647.7	-8.6
170	0101 0110	2616.25	2658.4	-0.8	0.0	19.3	2663.6	-5.2
171	0101 0101	2631.88	2679.7	-0.9	-0.8	21.3	2679.4	0.2
172	0101 0100	2647.50	2694.6	0.1	-0.6	14.9	2695.3	-0.7
173	0101 0011	2663.13	2705.6	0.7	0.8	11.0	2711.2	-5.6
174	0101 0010	2678.75	2732.0	0.9	0.9	26.4	2727.1	4.9
175	0101 0001	2694.38	2743.2	-0.9	0.1	11.1	2743.0	0.2
176	0101 0000	2710.00	2760.2	-0.9	-0.7	17.0	2758.9	1.3
177	0100 1111	2725.63	2764.8	0.9	0.0	4.6	2774.8	-10.0
178	0100 1110	2741.25	2781.4	0.6	0.8	16.6	2790.7	-9.3
179	0100 1101	2756.88	2804.0	-0.8	0.7	22.7	2806.5	-2.5
180	0100 1100	2772.50	2818.1	-0.9	0.7	14.1	2822.4	-4.3
181	0100 1011	2788.13	2832.5	-0.9	-0.9	14.4	2838.3	-5.8
182	0100 1010	2803.75	2855.1	0.9	-0.0	22.6	2854.2	0.9
183	0100 1001	2819.38	2871.6	-2.3	1.0	16.5	2870.1	1.6

ORIGINAL PAGE IS OF POOR QUALITY

[illegible] TEST [illegible] PAGE [illegible]
[illegible] FULL PERFORMANCE [illegible]
[illegible]

HAC TEST S27

NOV 30 '81

THRESHOLD [illegible]	A/D OUTPUT THRESHOLD	[illegible] (MV)	ANALOG INPUT VOLTAGE (MV) NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
[illegible]	0100 1000	[illegible]	[illegible]891.2	-0.6	0.0	19.6	[illegible]	[illegible]
[illegible]	0100 0111	[illegible]	2892.7	[illegible]	-3.9	1.4	2901.9	-9.2
[illegible]	0100 0110	[illegible]	[illegible]	-0.3	0.8	18.3	[illegible]	-6.3
[illegible]	0100 0101	[illegible]	[illegible]	1.8	[illegible]	20.1	[illegible]951.6	[illegible]
[illegible]	0100 0100	[illegible]	[illegible]	0.7	[illegible]	19.6	[illegible]	1.7
[illegible]	0100 0011	[illegible]	[illegible]	1.0	3.0	[illegible]	2965.4	[illegible]
[illegible]	0100 0010	[illegible]	[illegible]	0.3	[illegible]	[illegible]	2981.3	[illegible]
[illegible]	0100 0001	[illegible]	[illegible]	0.9	0.0	8.4	[illegible]	1.9
[illegible]	0100 0000	[illegible]	3006.8	0.6	[illegible]	[illegible]	3013.1	-6.3
[illegible]	0011 [illegible]	[illegible]	3020.1	-0.0	[illegible]	13.3	[illegible]	[illegible]
[illegible]	0011 1110	[illegible]	3043.3	0.9	[illegible]	23.2	3044.8	[illegible]
[illegible]	0011 [illegible]	[illegible]	3060.[illegible]	-0.7	[illegible]	[illegible]	3060.7	0.2
[illegible]	0011 1100	[illegible]	3068.0	0.8	[illegible]	[illegible]	3076.6	-8.6
19	0011 1011	[illegible]	3087.3	0.8	6.9	19.2	[illegible]	[illegible]
[illegible]	0011 1010	[illegible]	[illegible]	-0.8	[illegible]	24.4	[illegible]	[illegible]
[illegible]	0011 1001	[illegible]	[illegible]	0.9	0.9	[illegible]	[illegible]	0.7
[illegible]	0011 1000	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]4.1	[illegible]	[illegible]
[illegible]	0011 [illegible]	[illegible]	3147.8	0.9	0.9	[illegible]	[illegible]	-0.3
[illegible]	0011 0110	[illegible]	3166.4	[illegible]	[illegible]	18.6	3171.9	-5.6
[illegible]	0011 [illegible]	[illegible]	3189.0	-0.9	0.8	[illegible]	[illegible]	1.1
[illegible]	0011 0100	[illegible]	[illegible]207.0	-0.6	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	0011 0011	[illegible]	[illegible]	0.8	[illegible]	[illegible]	[illegible]219.6	-3.6
[illegible]	0011 [illegible]	[illegible]	[illegible]241.3	0.9	3.9	[illegible]	[illegible]	[illegible]
[illegible]	0011 0001	[illegible]	[illegible]	-0.0	[illegible]	18.4	[illegible]	0.3
[illegible]	0011 [illegible]	[illegible]	[illegible]263.9	-0.9	-0.8	12.2	[illegible]	[illegible]
[illegible]	0010 111[illegible]	[illegible].63	[illegible]274.7	[illegible]	-0.2	10.8	3263.1	[illegible]

ORIGINAL PAGE IS OF POOR QUALITY

HS [illegible] THEMATIC [illegible] MUX UNIT TEST MODEL [illegible] S/N 3 PAGE [illegible]

[illegible] FULL PERFORMANCE @ AMBIENT TEMP.

[illegible]

HAC TEST S27

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
210	0010 1110	3241.25	3297.9	0.8	0.9	23.2	3299.0	-1.1
211	0010 1101	3256.88	3314.3	0.7	0.8	16.4	3314.9	-0.6
212	0010 1100	3272.50	3326.8	0.8	0.0	12.5	3330.8	-4.0
213	0010 1011	3288.13	3342.8	-1.0	0.9	16.0	3346.7	-3.8
214	0010 1010	3303.75	3366.7	0.6	-0.6	23.9	3362.6	4.2
215	0010 1001	3319.38	3379.0	0.7	0.8	12.2	3378.5	0.5
216	0010 1000	3[illegible].00	3398.3	0.6	0.8	19.3	3394.3	4.0
217	0010 0111	3350.63	340[illegible].5	-1.0	0.9	5.2	3410.2	-6.7
218	0010 0110	3366.25	3422.4	-0.8	0.7	18.9	3426.1	3.7
219	0010 0101	3381.88	3443.0	0.8	-0.0	20.6	3442.0	1.0
220	0010 0100	3397.50	3461.1	0.6	0.8	18.1	3457.9	3.2
221	0010 0011	3413.13	3470.1	-0.0	0.8	9.0	3473.8	-3.7
222	0010 0010	3428.75	3498.7	1.1	-0.9	28.5	3489.7	9.0
223	0010 0001	3444.38	3507.9	-0.9	-0.8	9.2	3505.6	2.3
224	0010 0000	3460.00	3525.6	0.8	0.8	17.7	3521.4	4.2
225	0001 1111	3475.63	3530.5	0.8	0.9	4.9	3537.3	-6.8
226	0001 1110	3491.25	3553.7	0.9	-0.0	22.2	3553.2	0.5
227	0001 1101	3506.88	3571.1	0.9	-0.9	17.4	3569.1	2.0
228	0001 1100	3522.50	3579.6	0.6	0.8	8.5	3585.0	5.4
229	0001 1011	3538.13	3596.3	0.8	0.9	16.7	3600.9	2.6
230	0001 1010	3553.75	3621.6	0.2	0.9	23.3	3616.8	4.8
231	0001 1001	3569.38	3636.6	-1.0	2.4	14.9	3632.7	3.9
232	0001 1000	3585.00	3648.6	-0.8	0.9	12.0	3648.5	0.1
233	0001 0111	3600.63	3659.3	0.8	0.0	10.7	3664.4	-5.1
234	0001 0110	3616.25	3678.3	0.1	0.4	19.0	3680.3	-2.0
235	0001 0101	3631.88	3699.7	-0.1	0.8	21.4	3696.2	3.5
236	0001 0100	3647.50	3715.1	-0.9	-0.9	15.4	3712.1	3.0

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27

[illegible] PAGE [illegible]

[illegible]

[illegible] NOV 30 '81

[illegible]	[illegible]	[illegible] (UV)	ANALOG INPUT VOLTAGE (UV) NOMINAL	LEVELS [illegible]	[illegible]	DECREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
[illegible]	[illegible]	[illegible]	3728.0	-1.6	-1.6	12.9	[illegible]	0.0
[illegible]	3891 [illegible]	[illegible]	37[illegible]3.0	1.6	[illegible]	[illegible]	3743.9	9.1
[illegible]	[illegible]	[illegible]	3764.[illegible]	0.9	0.9	[illegible]	[illegible]9.7	4.6
[illegible]	[illegible]	[illegible]	3784.7	-0.9	[illegible]	20.4	[illegible]	9.1
[illegible]	[illegible] 1111	[illegible]	3788.1	1.0	[illegible]	3.4	[illegible]791.5	-3.4
[illegible]	[illegible]	[illegible]	38[illegible]	0.1	0.7	23.1	[illegible]7.4	3.0
[illegible]	[illegible]	[illegible]	3824.9	0.8	0.7	[illegible]	[illegible]3.3	3.6
[illegible]	[illegible]	[illegible]	3839.2	-0.0	[illegible]	[illegible]	[illegible]	0.0
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.5	14.5	[illegible]	0.7
[illegible]	[illegible]	[illegible]	[illegible]79.1	[illegible]	[illegible]	[illegible]	[illegible]	8.1
[illegible]	[illegible]	[illegible]	[illegible]	-2.3	[illegible]	14.0	[illegible]	9.0
[illegible]	[illegible]	[illegible]	3914.4	0.4	[illegible]	18.5	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	3916.4	-0.1	0.9	[illegible]	[illegible]	-2.2
[illegible]	[illegible]	[illegible]	3936.4	[illegible]	[illegible]	[illegible]	[illegible]	1.9
[illegible]	[illegible]	[illegible]	3957.6	-0.1	[illegible]	21.2	[illegible]	7.2
[illegible]	[illegible]	[illegible]	[illegible]976.1	[illegible]	[illegible]	[illegible]	[illegible]	9.8
[illegible]	[illegible]	[illegible]	3984.[illegible]	0.8	5.9	[illegible]	[illegible]	2.[illegible]
[illegible]	[illegible]	[illegible]	[illegible]012.7	[illegible]	[illegible]	[illegible]	[illegible]	14.6
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	16.0	[illegible]	8.8

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 360
1981/11/30 12:59:29 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
[illegible] A/D THRESHOLD TEST (RANGE= 2, SENSOR=11) [illegible]
S U M M A R Y

CHECK 1) RMS ERROR, 2) THRESHOLD INCREMENT(+/- 0.0 THRH INC <= 31.2)
THE REMAINING DATA ARE FOR INFORMATION ONLY

BEST FIT STRAIGHT LINE TS: Y =15.884X -36.3MV

DEVIATION OF SLOPE FROM IDEAL IS: 1.654%
BRESET IS:-36.3MV
COEFFICIENT OF DETERMINATION IS: R**2= .99998230
ANALOG INPUT DURING DC RESTORE IS:64.4MV

RMS ERROR = 4.874MV REQMT: RMS ERROR <=7.812MV

THRESHOLD INCREMENT MEASUREMENT

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
23.3MV	174	15.963MV	3.6MV	241	5.834MV

[illegible] AT OUTPUT LEVELS RATIO = 1 : 1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
4.9MV	1[illegible]	-0.173MV	-6.5MV	208	1.767MV

[illegible] AT OUTPUT LEVELS RATIO = 1 : 1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
2.0MV	162	0.011MV	-6.6MV	208	1.637MV

TEST PASSED

HAC TEST 527

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27

NOV 30 '81

INPUT NO.	A/D OUTPUT THRESHOLD	[illegible]	ANALOG INPUT VOLTAGE (MV) NOMINAL	LEVEL RATIO [illegible]	[illegible]	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
[illegible]	[illegible] 1111	[illegible]	-28.0	-1.1	1.0		[illegible]	-7.[illegible]
[illegible]	1111 1110	[illegible]	-8.7	[illegible]	[illegible]	19.3	-4.6	-4.[illegible]
[illegible]	[illegible] 1101	[illegible]	17.5	-0.6	-[illegible].0	[illegible]	11.3	1.2
[illegible]	1111 1100	[illegible]	24.7	1.4	[illegible]	[illegible]	[illegible]	-3.0
[illegible]	1111 1011	[illegible]	39.0	0.9	[illegible]	14.8	[illegible]	4.0
[illegible]	1111 1010	[illegible]	62.7	-1.6	[illegible]	[illegible]	57.0	3.8
[illegible]	1111 1001	[illegible]	77.8	-1.1	[illegible]	[illegible]	74.9	3.0
[illegible]	1111 1000	[illegible]	84.6	-0.0	[illegible]	6.7	90.7	6.7
[illegible]	[illegible]	[illegible]	100.3	0.9	[illegible]	15.7	[illegible]	-6.[illegible]
[illegible]	[illegible]	[illegible]	119.0	-0.1	[illegible]	18.7	[illegible]	-3.[illegible]
1	1111 0101	[illegible]	141.1	-[illegible].4	[illegible]	22.0	[illegible]	[illegible]
1	1111 0100	[illegible]	158.2	1.9	[illegible].4	17.1	[illegible]	3.9
[illegible]	1111 [illegible]	[illegible]	167.2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1[illegible]	1111 0010	[illegible]	192.7	[illegible]	[illegible]	[illegible]	186.9	[illegible]
[illegible]	[illegible]	[illegible]	204.6	-0.0	1.0	[illegible]	[illegible]	[illegible]
[illegible]	1111 0000	[illegible]	21[illegible].4	-1.[illegible]	[illegible]	[illegible]	[illegible]	-[illegible]
[illegible]	[illegible]	[illegible]	228.5	[illegible]	[illegible].0	[illegible]	[illegible]	[illegible]
[illegible]	1110 1110	[illegible]	244.0	[illegible]	[illegible]	[illegible]	[illegible]	-[illegible]
[illegible]	1110 1101	[illegible]	260.9	[illegible]	[illegible]	[illegible]	260.5	0.4
[illegible]	1110 1100	272,500	284.2	1.8	[illegible]	[illegible]	[illegible]	2.9
[illegible]	1110 1011	[illegible]	299.3	1.0	[illegible]	[illegible]	297.2	1.9
[illegible]	1110 1010	[illegible]	318.5	-0.1	[illegible]	[illegible]	313.1	5.4
[illegible]	1110 1001	[illegible]	337.1	[illegible]	[illegible]	[illegible]	329.0	3.[illegible]
[illegible]	[illegible] 1000	[illegible]	348.3	-[illegible]	[illegible]	[illegible]	344.9	3.4
[illegible]	1110 0111	[illegible]	356.6	-1.1	[illegible]	8.7	360.8	-4.2

ORIGINAL PAGE IS OF POOR QUALITY

HS-736 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 362
1981/11/30 12:59:42 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
[illegible] A/D THRESHOLD TEST (BAND= 2, SENSOR=11)

HAC TEST S27

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1:1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
26	1110 0110	366.250	378.8	-4.2	-4.3	22.2	376.6	2.1
27	1110 0101	381.875	394.0	1.9	0.1	15.3	392.5	1.5
28	1110 0100	397.500	415.3	1.2	1.3	21.2	408.4	6.9
29	1110 0011	413.125	422.2	-0.0	0.9	6.9	424.3	-2.1
30	1110 0010	428.750	448.8	-1.0	-0.9	26.6	440.2	8.6
31	1110 0001	444.375	460.9	-0.1	-1.2	12.1	456.1	4.8
32	1110 0000	460.000	473.6	0.7	0.9	12.7	471.9	1.6
33	1101 1111	475.625	483.3	0.9	0.9	9.7	487.8	-4.6
34	1101 1110	491.250	501.4	-2.5	-0.1	18.1	503.7	-2.3
35	1101 1101	506.875	523.6	-2.4	2.2	22.2	519.6	4.0
36	1101 1100	522.500	536.6	-0.1	1.7	13.0	535.5	1.1
37	1101 1011	538.125	549.9	0.9	1.0	13.3	551.4	1.5
38	1101 1010	553.750	571.7	-0.1	1.4	21.8	567.2	4.5
39	1101 1001	569.375	590.5	-3.1	-5.0	18.8	583.1	7.4
40	1101 1000	585.000	597.6	-0.3	-0.7	7.0	599.0	-1.5
41	1101 0111	600.625	611.0	0.9	0.0	13.4	614.9	3.9
42	1101 0110	616.250	628.9	3.5	3.5	17.9	630.8	1.9
43	1101 0101	631.875	649.1	0.1	2.6	20.2	646.7	2.5
44	1101 0100	637.500	648.5	-1.5	-1.5	19.4	662.5	6.0
45	1101 0011	663.125	678.7	-0.4	-0.9	10.2	678.4	0.3
46	1101 0010	678.750	701.7	1.3	1.7	22.9	694.3	7.3
47	1101 0001	694.375	716.7	1.7	1.8	15.1	710.2	6.6
48	1101 0000	710.000	731.2	-3.2	0.0	14.5	726.1	5.2
49	1100 1111	725.625	739.0	-1.0	-1.1	7.8	742.0	-3.9
50	1100 1110	741.250	758.0	-0.1	4.7	19.0	757.8	0.1
51	1100 1101	756.875	775.8	1.0	1.9	17.8	773.7	2.0

ORIGINAL PAGE IS OF POOR QUALITY

[illegible] ALTERNATE [illegible] BOX UNIT TEST [illegible] PAGE [illegible]
[illegible] DEVIATION FULL PERFORMANCE [illegible]

HAC TEST 527

NOV 30 '81

[illegible] NO.	A/D OUTPUT THRESHOLD	[illegible] VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO NOMINAL	LOWER	[illegible] UPPER	INCREASE [illegible] PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
	1100 1100	[illegible]	791.5	-0.1	1.5	15.7	789.6	1.2
[illegible]	1100 1011	[illegible]	805.3	[illegible]	0.9	13.7	[illegible]	[illegible]
[illegible]	1100 1010	[illegible]	827.4	-1.5	[illegible]	22.1	[illegible]	6.0
[illegible]	1100 1001	[illegible]	84[illegible]	[illegible]	0.2	15.1	[illegible]	5.2
[illegible]	1100 1000	[illegible]	859.6	0.4	0.6	17.1	853.1	6.4
[illegible]	1100 0111	[illegible]	864.8	1.0	1.0	5.2	[illegible]	-4.2
[illegible]	1100 0110	[illegible]	888.3	-5.7	-5.7	23.5	854.9	3.4
[illegible]	1100 0101	[illegible]	904.6	-3.0	-2.5	16.3	9[illegible].6	3.8
[illegible]	1100 0100	[illegible]	923.4	[illegible]	1.6	18.7	916.7	6.7
[illegible]	1100 0011	[illegible]	930.5	1.0	1.0	7.1	932.6	-2.1
[illegible]	1100 0010	938.750	956.6	-[illegible].2	0.0	26.1	948.5	8.1
[illegible]	1100 0001	944.375	969.4	-0.4	0.6	12.9	964.3	5.1
[illegible]	1100 0000	9[illegible].000	979.2	0.0	1.4	9.8	980.2	-1.0
[illegible]	1011 1111	975.625	992.6	1.0	1.0	13.3	996.1	-3.5
[illegible]	1011 1110	991.250	1007.8	0.0	2.1	15.2	1012.0	-4.[illegible]
[illegible]	1011 1101	1006.88	1033.3	-2.3	-2.3	25.5	1022.9	5.4
[illegible]	1011 1100	1022.50	1044.6	-2.3	[illegible]	11.4	1043.8	0.9
[illegible]	1011 1011	[illegible]	1058.6	1.0	0.0	14.0	1059.6	-1.0
[illegible]	1011 1010	[illegible]	1080.6	1.6	[illegible]	21.9	[illegible]	5.0
[illegible]	1011 1001	[illegible]	1098.1	[illegible]	[illegible]	17.5	1091.4	6.7
[illegible]	1011 1000	[illegible]	1103.0	[illegible]	[illegible]	5.0	1107.3	4.3
[illegible]	1011 0111	1100.63	1120.4	0.0	-1.2	17.3	1122.2	-2.8
[illegible]	1011 0110	[illegible]	1137.9	3.1	2.9	16.6	1139.1	-2.0
[illegible]	1011 0101	[illegible]	1157.9	2.6	2.5	20.9	1154.9	3.0
[illegible]	1011 0100	1137.50	1175.4	1.6	[illegible]	17.5	1170.8	4.6
[illegible]	1011 0011	[illegible].13	1186.3	-1.1	-1.1	10.9	1186.7	-0.4
[illegible]	1011 0010	1128.75	1211.6	-4.1	-1.5	25.3	1202.6	9.0

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST 527
NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	HIGH VALUE (MV)	ANALOG INPUT VOLTAGE (MV) NOMINAL	LEVELS RATIO LOWER	1 :1 UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
79	1011 0001	1194.38	1222.4	1.2	1.1	10.8	1218.5	3.9
80	1011 0000	1210.00	1232.3	0.0	2.3	9.9	1234.4	-2.0
81	1010 1111	1225.63	1246.3	-1.0	-1.0	13.9	1250.2	-3.9
82	1010 1110	1241.25	1263.1	-2.4	-2.5	16.8	1266.1	-3.0
83	1010 1101	1256.88	1283.2	2.6	-0.1	20.1	1282.0	1.2
84	1010 1100	1272.50	1298.4	1.1	1.0	[illegible]	1297.9	0.5
85	1010 1011	1288.13	1312.2	-1.0	-0.0	13.8	1313.8	-1.6
86	1010 1010	1303.75	1334.9	-1.0	-1.2	22.8	1329.7	5.3
87	1010 1001	1319.38	1352.0	-0.1	0.7	17.1	1345.5	6.5
88	1010 1000	1335.00	1364.3	0.2	0.3	12.2	1361.4	2.9
89	1010 0111	1350.63	1371.8	1.0	0.9	7.5	1377.3	[illegible]
90	1010 0110	1366.25	1393.1	-3.5	-0.1	21.3	1393.2	-0.1
91	1010 0101	1381.88	1412.9	-1.0	-2.8	19.8	1409.1	3.8
92	1010 0100	1397.50	1429.7	1.3	0.1	16.9	1425.0	4.8
93	1010 0011	1413.13	1437.5	1.1	1.0	7.8	1440.8	-3.3
94	1010 0010	1428.75	1442.7	0.0	1.5	20.1	1456.7	5.9
95	1010 0001	1444.38	1476.0	-1.3	-1.3	13.3	1472.6	3.4
96	1010 0000	1460.00	1493.0	0.3	0.2	17.0	1488.5	4.5
97	1001 1111	1475.63	1498.6	0.7	-0.2	[illegible]	1504.4	-5.8
98	1001 1110	1491.25	1512.8	2.1	2.1	14.2	1520.3	-7.5
99	1001 1101	1506.88	1538.5	-2.5	-0.0	25.7	1536.1	2.3
100	1001 1100	1522.50	1549.0	1.0	-1.2	10.5	1552.0	-3.0
101	1001 1011	1538.13	1565.2	0.0	1.1	16.2	1567.9	-2.7
102	1001 1010	1553.75	1583.5	1.5	1.6	26.3	1583.8	1.7
103	1001 1001	1569.38	1601.4	3.4	3.4	17.8	1599.7	1.7
104	1001 1000	1585.00	1610.6	-0.3	-0.0	9.2	1615.6	-5.0

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27

[illegible] NUMBER	A/D OUTPUT THRESHOLD	ZERO VALUE (MV)	ANALOG INPUT VOLTAGE LEVELS RATIO NOMINAL	LOWER	(MV) 1:31 DEVIATION	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
16	1001 0111	[illegible]	1625.9	-0.9	1.1	17.3	1621.4	-5.6
1[illegible]	1001 0110	[illegible]	1641.9	2.6	-0.1	16.0	1647.3	-5.4
1[illegible]	1001 0101	[illegible]	1662.8	7.9	3.0	20.9	1663.2	0.4
[illegible]	1001 0100	[illegible]	1679.1	0.0	1.4	16.3	1679.1	0.0
1[illegible]	1001 0011	[illegible]	1691.6	-1.1	-1.1	12.5	1695.0	-3.3
1[illegible]	1001 0010	[illegible]	1716.3	-1.7	-6.9	[illegible]	1710.9	5.4
1[illegible]	1001 0001	[illegible]	1727.8	[illegible]	-1.6	11.5	1726.7	1.1
1[illegible]	1001 0000	[illegible]	1742.7	4.9	4.3	14.3	[illegible]	-0.[illegible]
11	1000 1111	[illegible]	1751.7	-5.9	6.1	9.5	1758.5	-6.8
11[illegible]	1000 1110	[illegible]	1767.8	-2.5	-2.3	16.1	1768.3	-0.6
11[illegible]	1000 1101	[illegible]	1790.5	-6.0	[illegible]	[illegible]	1790.3	0.2
11[illegible]	1000 1100	[illegible]	1803.1	1.6	[illegible]	12.6	[illegible]	3.1
11[illegible]	1000 1011	[illegible]	1816.5	1.6	3.9	13.4	1822.0	-5.5
11[illegible]	1000 1010	[illegible]	1839.8	[illegible]	[illegible]	23.3	1837.9	1.9
11[illegible]	1000 1001	[illegible]	1858.2	-4.6	[illegible]	18.4	1853.8	4.4
[illegible]	[illegible] 1000	[illegible]	1871.3	0.9	[illegible]	13.1	1869.7	1.6
11[illegible]	1000 0111	[illegible]	1877.0	[illegible]	[illegible]	[illegible]	1885.6	-8.5
1[illegible]	1000 0110	[illegible]	1894.3	-1.6	[illegible]	17.2	1901.5	-7.2
1[illegible]	1000 0101	[illegible]	1918.0	-1.1	[illegible]	[illegible]	1917.3	0.6
1[illegible]	1000 0100	[illegible]	1936.2	-2.5	-5.2	18.1	1933.2	3.0
1[illegible]	1000 0011	[illegible]	1942.0	0.9	-0.0	6.5	1949.1	-6.1
1[illegible]	1000 0010	[illegible]	1967.3	1.4	1.3	29.5	1965.0	2.3
1[illegible]	1000 0001	[illegible]	1983.6	-3.[illegible]	-0.1	16.3	1980.9	2.8
1[illegible]	1000 0000	[illegible]	1994.3	-0.8	0.3	10.7	1996.8	2.4
1[illegible]	0111 1111	[illegible]	2007.1	0.1	1.6	12.8	2012.6	-5.5
1[illegible]	0111 1110	[illegible]	2022.4	2.1	2.1	15.3	2028.5	-6.1

ORIGINAL PAGE IS OF POOR QUALITY

[illegible] THERMOTIC MALLER MUX UNIT TEST MODEL .. FIT. S N 3 PAGE 366
[illegible] PRIMARY FULL PERFORMANCE @ AMBIENT TEMP.
[illegible]

HAC TEST 527

NOV 30 '81

[illegible]	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO NOMINAL	LOWER	1:1 UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
13[illegible]	0111 1101	2006.88	2047.4	0.1	0.2	2[illegible].0	2044.4	3.0
13[illegible]	0111 1100	2022.50	2060.2	-0.6	0.0	12.7	2060.3	0.1
133	0111 1011	2038.13	2073.0	-1.1	-1.0	12.8	2076.2	-3.[illegible]
13[illegible]	0111 1010	2053.75	2096.1	0.9	0.2	23.1	2092.1	4.0
135	0111 1001	2069.38	2109.1	1.1	1.1	13.0	2107.9	1.1
136	0111 1000	2085.00	2122.1	-3.5	2.8	13.1	2123.8	-1.7
137	0111 0111	2100.63	2133.9	-1.1	-1.1	11.8	2139.7	5.8
138	0111 0110	2116.25	2154.8	-3.2	0.8	20.9	2155.6	-0.8
139	0111 0101	2131.88	2174.4	0.7	0.0	19.6	2171.5	3.0
140	0111 0100	2147.50	2189.6	0.9	0.8	15.2	2187.4	2.3
141	0111 0011	2163.13	2199.8	-1.1	0.1	10.2	2203.2	3.5
142	0111 0010	2178.75	2227.4	-2.5	2.1	27.6	2219.1	8.3
143	0111 0001	2194.38	2236.8	-0.1	-1.2	9.4	2235.0	1.8
144	0111 0000	2210.00	2243.7	2.2	2.0	6.8	2250.9	-7.2
145	0110 1111	2225.63	2259.0	0.9	0.8	1[illegible].4	2266.8	-7.7
146	0110 1110	2241.25	2277.9	-2.5	0.0	18.8	2282.7	-4.8
147	0110 1101	2256.88	2300.0	0.0	0.0	22.1	2298.5	1.4
148	0110 1100	2272.50	2316.0	0.9	0.1	16.0	2314.4	1.5
149	0110 1011	2288.13	2324.6	1.2	1.2	8.6	2330.3	-5.7
150	0110 1010	2303.75	2349.8	-0.0	1.1	25.2	2346.2	3.6
151	0110 1001	2319.38	2362.8	1.3	-1.2	13.0	2362.1	0.8
152	0110 1000	2335.00	2379.4	-0.1	-0.3	16.6	2378.0	1.5
153	0110 0111	2350.63	2385.4	1.1	0.0	6.0	2393.8	8.4
154	0110 0110	2366.25	2404.3	1.2	1.2	18.9	2409.7	5.4
155	0110 0101	2381.88	2427.7	5.7	-0.1	23.4	2425.6	2.1
156	0110 0100	2397.50	2447.0	-0.7	0.6	19.3	2441.5	5.5
157	0110 0011	2413.13	2452.0	0.0	-0.9	4.9	2457.4	-5.4

ORIGINAL PAGE IS OF POOR QUALITY

HS [illegible] THEMATIC MAPPER MUX UNIT TEST MODEL [illegible] PAGE 362

[illegible] 12:59:42 [illegible] PERFORMANCE [illegible]

[illegible]

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	[illegible] VALUE (MV)	ANALOG INPUT VOLTAGE (G/V) NOMINAL	LEVELS [illegible] LOWER	[illegible] UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
[illegible]	0110 0010	[illegible]	2478.7	1.6	1.7	26.7	2473.3	5.4
[illegible]	0110 0001	[illegible]	2488.1	1.1	1.2	9.4	2489.2	-1.0
[illegible]	0110 0000	[illegible]	2504.5	-0.6	-0.1	16.3	2505.0	-0.6
16[illegible]	0101 1111	[illegible]	2513.1	-1.0	-1.1	8.7	2520.9	-7.8
16[illegible]	0101 1110	[illegible]	2527.7	2.1	7.0	14.5	[illegible]	-9.1
16[illegible]	0101 1101	[illegible]	2553.2	-0.5	-[illegible]	25.5	2552.7	0.5
16[illegible]	0101 1100	[illegible]	2566.0	-0.1	0.8	12.8	[illegible]	-2.6
16[illegible]	0101 1011	[illegible]	2579.0	1.2	1.1	13.0	[illegible]	[illegible]
16[illegible]	0101 1010	[illegible]	2602.3	-1.2	-1.4	23.3	[illegible]	2.0
16[illegible]	0101 1001	[illegible]	2614.9	1.1	0.1	12.6	2616.2	1.1
16[illegible]	0101 1000	[illegible]	2624.7	0.6	0.8	9.8	[illegible]	[illegible]
16[illegible]	0101 0111	[illegible]	2639.8	-1.0	-0.0	15.0	[illegible]	-8.2
16[illegible]	0101 0110	[illegible]	2660.1	[illegible]	[illegible]	20.3	[illegible]	3.8
17[illegible]	0101 0101	[illegible]	2680.5	0.0	-0.7	20.4	[illegible]	0.8
17[illegible]	0101 0100	[illegible]	2696.0	0.6	0.[illegible]	15.5	[illegible]	0.9
17[illegible]	0101 0011	[illegible]	2704.5	1.1	1.1	8.5	[illegible]	-7.0
17[illegible]	0101 0010	[illegible]	2732.8	-[illegible]	0.1	28.3	[illegible]	[illegible]
17[illegible]	0101 0001	[illegible]	2742.8	-1.2	[illegible]	9.9	[illegible]	0.5
17[illegible]	0101 0000	[illegible]	2758.6	[illegible]	0.0	15.8	[illegible]	0.6
17[illegible]	0100 1111	[illegible]	2765.1	0.8	0.7	6.6	[illegible]	9.9
17[illegible]	0100 1110	[illegible]	2780.7	0.9	[illegible]	15.5	[illegible]	[illegible]
17[illegible]	0100 1101	[illegible]	2805.4	0.4	0.3	24.8	2806.8	-1.4
18[illegible]	0100 1100	[illegible]	2823.2	-1.8	-0.7	17.8	[illegible]	0.5
18[illegible]	0100 1011	[illegible]	2840.7	1.1	1.0	7.4	[illegible]	-7.9
18[illegible]	0100 1010	[illegible]	2855.2	1.0	1.0	24.5	[illegible]	0.7
18[illegible]	0100 1001	[illegible]	2873.5	-[illegible]	0.0	18.4	2870.4	3.2

ORIGINAL PAGE IS OF POOR QUALITY

US-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 368
1981/11/30 12:59:42 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
[illegible] A/D THRESHOLD TEST (BAND= 2, SENSOR=11)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO NOMINAL	LOWER	1:1 UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
184	0100 1000	2855.00	2888.7	-0.4	-0.4	15.2	2886.2	2.5
185	0100 0111	2850.63	2892.6	-0.0	-1.1	3.9	2902.1	-9.5
186	0100 0110	2866.25	2909.8	3.6	3.6	17.2	2918.0	-8.2
187	0100 0101	2881.88	2932.4	1.1	0.8	22.5	2933.9	-1.5
188	0100 0100	2897.50	2953.9	-0.7	-0.7	21.6	2949.8	4.2
189	0100 0011	2913.13	2958.5	-1.2	-1.2	4.5	2965.7	-7.2
190	0100 0010	2928.75	2984.4	1.7	0.0	25.9	2981.5	2.8
191	0100 0001	2944.38	2994.5	1.2	1.2	10.1	2997.4	-3.0
192	0100 0000	2960.00	3007.5	-0.1	1.2	13.1	3013.3	-5.8
193	0011 1111	2975.63	3021.2	-0.9	-0.9	13.6	3029.2	-8.0
194	0011 1110	2991.25	3042.1	0.2	0.3	20.9	3045.1	-3.0
195	0011 1101	3006.88	3061.4	-0.6	0.7	19.3	3061.0	0.5
196	0011 1100	3022.50	3073.1	0.6	0.3	11.6	3076.8	-3.8
197	0011 1011	3038.13	3087.2	1.1	0.1	14.1	3092.7	-5.5
198	0011 1010	3053.75	3110.9	-2.3	-2.3	23.7	3108.6	2.3
199	0011 1001	3069.38	3129.4	0.0	-0.6	18.5	3124.5	4.9
200	0011 1000	3085.00	3135.7	3.5	3.6	6.3	3140.4	-4.7
201	0011 0111	3100.63	3147.5	0.9	0.9	11.8	3156.3	-8.7
202	0011 0110	3116.25	3168.3	-2.9	-2.8	20.8	3172.1	-3.8
203	0011 0101	3131.88	3189.4	-0.2	-0.0	21.1	3188.0	1.4
204	0011 0100	3147.50	3203.7	0.6	-0.0	14.2	3203.9	-0.3
205	0011 0011	3163.13	3213.5	1.1	1.1	9.8	3219.8	-6.3
206	0011 0010	3178.75	3240.2	-0.1	2.0	26.7	3235.7	4.5
207	0011 0001	3194.38	3252.1	-1.4	-1.3	11.9	3251.6	0.5
208	0011 0000	3210.00	3267.8	-6.5	-6.6	15.7	3267.4	0.4
209	0010 1111	3225.63	3275.0	0.8	0.6	7.2	3283.3	-8.3

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27

[illegible] ELEVATIC [illegible] TEST MODEL [illegible] S/N [illegible] PAGE 369

[illegible] PERFORMANCE [illegible]

[illegible]

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO NOMINAL	LOWER	1:1 UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
210	0010 1110	3241.[illegible]	3291.0	1.3	1.4	16.0	3299.2	-8.2
211	0010 1101	3256.38	3315.4	0.5	0.2	24.4	[illegible]	0.3
212	0010 1100	3272.50	3332.2	-1.0	[illegible]	16.8	3331.0	1.2
213	0010 1011	3288.13	3342.0	0.0	-1.1	9.7	3346.9	-4.9
214	0010 1010	3303.75	3364.7	1.2	1.6	[illegible]	3362.7	2.0
215	0010 1001	3319.38	3383.5	0.9	0.8	18.8	3373.6	4.9
216	0010 1000	[illegible]	3395.8	0.2	0.4	[illegible]	[illegible]	1.3
217	0010 0111	3350.63	3403.4	-0.9	1.2	7.7	3410.4	-7.0
218	0010 0110	[illegible]	3420.7	3.0	3.1	[illegible]	[illegible]	[illegible]
219	0010 0101	[illegible]	3444.1	0.1	[illegible]	23.4	[illegible]	2.0
220	0010 0100	[illegible]	3463.3	-0.1	0.6	19.2	[illegible]	[illegible]
221	0010 0011	[illegible]	3469.9	1.5	1.5	6.5	3473.9	-4.1
222	0010 0010	[illegible]	3497.9	2.0	-1.9	28.0	[illegible]	3.1
223	0010 0001	[illegible]	3506.1	1.2	[illegible]	8.2	[illegible]	0.4
224	0010 0000	[illegible]	3526.1	0.3	0.2	20.0	[illegible]	[illegible]
225	0001 1111	[illegible]	3531.7	0.9	0.1	[illegible]	[illegible]	[illegible]
226	0001 1110	[illegible]	3547.8	2.0	[illegible]	16.0	[illegible]	-5.6
227	0001 1101	[illegible]	3571.2	-0.1	0.5	[illegible]	[illegible]	2.0
228	0001 1100	[illegible]	3584.4	0.5	0.7	[illegible]	[illegible]	-0.7
229	0001 1011	[illegible]	3597.3	1.0	[illegible]	12.9	3601.0	[illegible]
230	0001 1010	[illegible]	3620.5	-1.7	1.5	23.2	[illegible]	[illegible]
231	0001 1001	[illegible]	3640.4	[illegible]	0.6	19.9	3632.8	7.7
232	0001 1000	[illegible]	[illegible]	0.9	0.1	[illegible]	3648.6	[illegible]
233	0001 0111	[illegible]	[illegible]	1.0	[illegible]	[illegible]	3664.5	[illegible]
234	0001 0110	[illegible]	3678.3	1.6	1.2	19.1	3680.4	[illegible]
235	0001 0101	[illegible]	3700.9	0.2	0.1	22.6	3696.3	4.6
236	0001 0100	3637.50	3717.0	-0.8	-0.7	16.2	3712.2	4.3

ORIGINAL PAGE IS OF POOR QUALITY

1981/11/30 12:59:42 PENALTY FIT TIME ORIGINAL @ AMBIENT TEMP.

[illegible]

HAC TEST 567

NOV 30 '81

THRESHOLD POSITION	A/D OUTPUT THRESHOLD	TOTAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) NOMINAL	LEVELS RATIO- LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
232	0001 0011	3653.13	3725.8	0.9	0.7	8.8	3728.1	-2.3
233	0001 0010	3673.75	3751.8	1.9	2.0	22.0	3743.9	7.9
235	0001 0001	3694.38	3769.3	2.0	0.1	17.4	3759.8	9.4
236	0001 0000	3710.00	3785.1	-1.3	-1.3	15.9	3775.7	9.4
241	0000 1111	3725.63	3788.7	-0.1	-1.3	3.6	3791.6	-2.9
242	0000 1110	3751.25	3810.2	-5.4	-1.1	21.9	3807.5	2.7
244	0000 1101	3755.88	3828.5	0.4	-0.4	18.3	3823.4	5.1
245	0000 1100	3772.50	3846.0	-1.[illegible]	1.2	17.5	3839.3	6.7
246	0000 1011	3768.13	3865.4	-1.3	-1.2	9.4	3855.1	0.3
247	0000 1010	3803.75	3887.4	1.9	0.0	21.9	3871.0	6.4
248	0000 1001	3819.38	3896.5	0.6	0.8	19.1	3886.9	9.6
249	0000 1000	3835.00	3912.5	-0.2	0.0	16.0	3902.8	9.8
250	0000 0111	3850.63	3917.4	-1.0	-1.1	4.9	3918.7	-1.2
251	0000 0110	3866.25	3927.3	2.0	1.4	19.9	3934.5	2.8
252	0000 0101	3881.88	3937.6	0.4	0.7	20.2	3950.4	7.1
253	0000 0100	3897.50	3978.3	0.4	0.6	20.7	3966.3	12.0
254	0000 0011	3913.13	3984.4	-1.2	-0.1	6.1	3982.2	2.2
255	0000 0010	3928.75	4011.7	-1.8	-1.7	17.3	3998.1	13.6
256	0000 0001	3944.38	4026.6	0.1	0.5	14.9	4014.0	12.7

ORIGINAL PAGE IS OF POOR QUALITY

[illegible] THEMATIC [illegible] UNIT TEST [illegible] PAGE [illegible]

[illegible]

[illegible] DATA [illegible] INFORMATION ONLY

[illegible]

[illegible] 1.594

[illegible]

[illegible]

[illegible]

[illegible]	[illegible]	AVERAGE	MINIMUM	[illegible]	STANDARD DEVIATION
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

HAC TEST S21 NOV 30 '81

[illegible]	[illegible]	AVERAGE	MINIMUM	[illegible]	STANDARD DEVIATION
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible]	[illegible]	AVERAGE	MINIMUM	[illegible]	STANDARD DEVIATION
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

TEST [illegible]

This test failed due to noise in tester. See retest passed on Pg 426 Rg 11/30/81

HAC TEST S21 NOV 30 '81

ORIGINAL PAGE IS OF POOR QUALITY

HS-234 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 372
1981-11/30 13:06:18 PENALTY FULL PERFORMANCE D AMBIENT TEMP.
[illegible] A/D THRESHOLD TEST (BAND= 2 SENSOR= 12)

HAC TEST S27

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
THE FOLLOWING DATA ARE FOR INFORMATION ONLY								
1	1111 1111	-24.375	-27.5	-4.2	0.1		-22.3	-5.3
2	1111 1110	8.750	-8.4	-0.7	0.8	19.1	-6.4	-2.0
3	1111 1101	6.875	6.1	4.4	0.0	14.6	9.5	-3.[illegible]
4	1111 1100	22.500	21.8	0.8	0.9	15.7	25.3	-3.5
5	1111 1011	38.125	35.4	-0.1	3.9	13.6	41.2	-5.8
6	1111 1010	53.750	61.6	-0.8	-0.7	26.1	57.1	4.5
7	1111 1001	69.375	77.5	-4.8	-4.4	15.9	73.0	4.5
8	1111 1000	85.000	87.2	0.6	0.1	9.6	88.8	-1.7
9	1111 0111	100.625	96.9	3.7	3.6	9.7	104.7	-7.8
10	1111 0110	116.250	119.3	-0.8	0.0	22.4	120.6	-1.3
11	1111 0101	131.875	139.0	-4.8	-5.1	19.7	136.5	2.6
12	1111 0100	147.500	154.7	-0.0	0.7	15.7	152.3	2.4
13	1111 0011	163.125	163.4	[illegible]	3.9	8.6	168.2	-4.8
14	1111 0010	178.750	191.2	0.8	0.8	27.8	184.1	7.1
15	1111 0001	194.375	205.4	-4.3	-0.1	14.2	200.0	5.4
16	1111 0000	210.000	213.3	-1.0	1.0	7.9	215.8	-2.6
17	1110 1111	[illegible]	223.8	4.0	0.0	10.6	231.7	-7.9
18	1110 1110	[illegible].250	243.5	0.7	0.8	19.6	247.6	-4.1
19	1110 1101	[illegible]	261.5	-0.1	4.3	18.1	263.5	-1.9
20	1110 1100	272.500	280.3	-1.0	0.9	18.3	279.3	1.0
21	1110 1011	[illegible]	294.6	-3.9	-3.6	14.3	295.2	-0.6
22	1110 1010	303.750	316.4	0.3	0.1	21.8	311.1	5.4
23	1110 1001	319.375	328.3	4.4	4.3	11.8	327.0	1.3
24	1110 1000	335.000	348.9	-1.1	0.1	20.6	342.8	6.1
25	1110 0111	350.625	355.7	-3.6	-3.9	6.8	358.7	-3.0

ORIGINAL PAGE IS OF POOR QUALITY

[illegible]

[illegible]

[illegible]

HAC TEST 527 NOV 30 '81

THRESH NO.	CODE OUTPUT TRANSITION	INPUT VOLTAGE (V)	ANALOG INPUT VOLTAGE ACTUAL	LEVELS RATIO ERROR %	ERROR BITS	DIFFERENCE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
[illegible]	[illegible]	[illegible]	324.8	0.1	0.8	19.1	324.6	0.2
[illegible]	[illegible]	[illegible]	339.0	[illegible]	.0	[illegible]	[illegible]	-1.4
[illegible]	1110 0100	[illegible]	[illegible]	0.6	[illegible]	24.5	[illegible]	7.2
[illegible]	1110 [illegible]	[illegible]	422.4	[illegible]	-3.0	[illegible]	[illegible]	0.2
[illegible]	[illegible]	[illegible]	437.4	[illegible]	5.8	[illegible]	[illegible]	9.1
[illegible]	[illegible]	[illegible]	455.7	[illegible]	[illegible]	[illegible]	[illegible]	1.7
[illegible]	[illegible]	[illegible]	470.1	0.7	[illegible]	[illegible]	[illegible]	0.3
	[illegible]	[illegible]	479.5	-0.1	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	501.2	[illegible]	[illegible]	[illegible]	[illegible]	-0.1
[illegible]	[illegible]	[illegible]	521.3	[illegible]	[illegible]	[illegible]	517.4	3.9
	[illegible]	[illegible]	531.9	[illegible]	[illegible]	[illegible]	[illegible]	-1.4
[illegible]	[illegible]	[illegible]	544.4	[illegible]	[illegible]	19.5	[illegible]	-2.8
[illegible]	[illegible]	[illegible]	571.3	[illegible]	[illegible]	[illegible]	[illegible]	6.8
[illegible]	[illegible]	[illegible]	587.9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	599.9	[illegible]	[illegible]	11.9	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	607.4	[illegible]	3.9	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	0.8	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-2.7
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	8.4
[illegible]	[illegible]	[illegible]	710.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	1101 0000	[illegible]	722.1	-0.9	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	737.6	-4.0	[illegible]	10.4	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	752.4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	771.8	[illegible]	[illegible]	[illegible]	771.4	0.4

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST 527

TIME SERIES NUMBER	LED OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO 1:1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
57	1100 1100	772.500	789.5	-1.0	0.0	17.6	787.3	2.2
58	1100 1011	788.125	803.6	-3.8	-5.8	14.1	803.2	0.5
59	1100 1010	803.750	825.2	0.0	0.7	21.6	819.0	6.2
60	1100 1001	819.375	837.1	4.5	4.7	11.8	834.9	2.2
61	1100 1000	835.000	859.6	0.9	0.8	22.5	850.8	8.8
62	1100 0111	850.625	864.6	-3.8	-4.1	5.0	866.7	-2.1
63	1100 0110	866.250	882.6	-0.8	-0.8	18.0	882.5	0.0
64	1100 0101	881.875	897.7	4.4	0.0	15.1	898.4	-0.7
65	1100 0100	897.500	922.3	0.7	0.7	24.5	914.3	8.0
66	1100 0011	913.125	926.5	-0.0	-4.0	4.2	930.2	-3.7
67	1100 0010	928.750	945.7	-0.9	-0.9	18.2	946.0	8.7
68	1100 0001	944.375	969.7	-6.4	-6.1	15.0	961.9	7.8
69	1100 0000	960.000	975.4	0.9	0.9	5.6	977.8	-2.4
70	1011 1111	975.625	988.9	3.7	5.8	13.5	993.7	-4.8
71	1011 1110	991.250	1007.6	-0.8	3.5	18.7	1009.5	1.2
72	1011 1101	1006.875	1020.9	-4.7	-4.7	23.3	1025.4	[illegible]
73	1011 1100	1022.500	1041.1	-2.3	0.7	17.2	1041.3	1.3
74	1011 1011	1038.125	1054.9	[illegible]	5.6	11.8	1057.2	2.2
75	1011 1010	1053.750	1079.7	0.6	0.7	24.7	1073.0	6.6
76	1011 1001	1069.375	1095.8	-1.0	3.3	16.2	1088.9	6.9
77	1011 1000	1085.000	1104.4	-0.8	0.8	8.6	1104.8	0.3
78	1011 0111	1100.625	1115.3	4.2	-0.1	10.8	1120.7	5.4
79	1011 0110	1116.250	1136.0	0.7	0.7	20.7	1136.5	9.5
80	1011 0101	1131.875	1152.6	0.0	4.3	16.6	1152.4	0.2
81	1011 0100	1147.500	1171.9	0.9	0.8	19.3	1168.3	3.6
82	1011 0011	1163.125	1185.0	-3.9	-3.6	13.1	1184.1	0.9
83	1011 0010	1178.75	1208.3	0.8	0.8	23.3	1200.0	8.3

ORIGINAL PAGE IS OF POOR QUALITY

[illegible] MATCH [illegible] TEST [illegible] PAGE [illegible]

[illegible]

[illegible]

[illegible]	[illegible]	[illegible]	[illegible] NOMINAL	[illegible]	[illegible]	[illegible]	[illegible] POINT	[illegible] DEVIATION
[illegible]	1011 [illegible]	[illegible]	1218.2	4.2	[illegible]	9.9	[illegible]	2.3
[illegible]	[illegible]	[illegible]	[illegible]	-0.3	[illegible]	[illegible]	[illegible]	0.1
[illegible]	1010 [illegible]	[illegible]	[illegible]	4.0	[illegible]	[illegible]	[illegible]	-2.6
[illegible]	[illegible]	[illegible]	[illegible]	-[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	1010 [illegible]	[illegible]	1279.0	4.4	4.5	18.7	1279.4	[illegible]
[illegible]	1010 [illegible]	[illegible]	1294.5	0.9	[illegible]	[illegible]	[illegible]	0.3
[illegible]	1010 [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	16.4	[illegible]	-0.2
[illegible]	[illegible]	[illegible]	[illegible]	9.5	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	4.4	[illegible]	10.7	[illegible]	0.9
[illegible]	1010 [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	-0.0	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	1010 [illegible]	[illegible]	1389.3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	1469.1	[illegible]	[illegible]	[illegible]	[illegible]	2.0
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-4.5
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	1474.5	-4.5	[illegible]	12.8	1469.9	4.6
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.5	4.3	[illegible]	[illegible]
[illegible]	1001 [illegible]	[illegible]	[illegible]	0.9	[illegible]	[illegible]	[illegible]	-2.5
[illegible]	1001 [illegible]	[illegible]	[illegible]	[illegible]	4.4	[illegible]	[illegible]	[illegible]
[illegible]	1001 [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-3.6
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	1001 [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.4
[illegible]	1001 [illegible]	[illegible]	1596.8	0.0	4.5	[illegible]	1596.9	0.1
[illegible]	1001 [illegible]	[illegible]	1612.3	-0.9	-0.8	[illegible]	1612.7	-0.5

HAC TEST S27

NOV 30 '81

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST 527
NOV 30 '81

DATA POINT NUMBER	A/D OUTPUT (HEXADECIMAL)	IDEAL VOLTS (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO NOMINAL	LOWER	1:1 UPPER	INCREMENT (MILLIVOLTS) (HEXADECIMAL)	BEST FIT STRAIGHT LINE POINT	DEVIATION
100	1001 0111	1600.63	1624.5	0.0	-3.7	12.2	1628.6	-4.2
101	1001 0110	1616.25	1640.5	0.8	0.9	16.0	1644.5	-4.0
102	1001 0101	1631.88	1658.0	3.8	3.8	17.5	1660.4	-2.4
103	1001 0100	1647.50	1677.5	-0.8	0.1	19.6	1676.2	1.3
104	1001 0011	1663.13	1690.1	-3.9	3.5	12.5	1692.1	-2.0
105	1001 0010	1678.75	1713.6	0.1	-1.0	23.5	1708.0	5.6
106	1001 0001	1694.38	1723.4	4.0	4.1	9.8	1723.9	0.4
107	1001 0000	1710.00	1743.1	-1.1	0.6	19.7	1739.7	3.4
108	1000 1111	1725.63	1749.9	-3.4	3.8	6.7	1755.6	-5.8
109	1000 1110	1741.25	1764.8	-0.9	0.8	14.9	1771.5	-6.7
110	1000 1101	1756.88	1784.0	4.2	0.4	19.2	1787.4	-3.4
111	1000 1100	1772.50	1799.5	0.8	0.9	15.5	1803.2	-3.8
112	1000 1011	1788.13	1819.0	-0.1	4.3	12.5	1819.1	7.1
113	1000 1010	1803.75	1837.4	0.5	-0.6	5.3	1835.0	2.4
114	1000 1001	1819.38	1853.6	6.2	-4.1	16.2	1850.9	2.7
115	1000 1000	1835.00	1870.8	0.8	0.9	17.3	1866.7	4.1
116	0111 1111	1850.63	1872.5	3.9	3.9	1.7	1882.6	-10.1
117	0111 1110	1866.25	1893.5	-0.8	0.0	21.0	1898.5	4.9
118	0111 1101	1881.88	1913.8	-1.8	-5.3	20.2	1914.4	-0.6
119	0111 1100	1897.50	1934.2	1.0	0.8	19.4	1930.2	4.0
120	0111 0011	1913.13	1938.5	1.5	3.7	4.2	1946.1	-7.6
121	0111 0010	1928.75	1965.0	0.0	1.0	26.5	1952.0	3.0
122	0111 0001	1944.38	1979.5	4.2	4.6	14.5	1977.9	1.6
123	0111 0000	1960.00	1991.0	0.9	0.9	11.5	1993.7	2.7
124	0110 1111	1975.63	2001.5	4.1	-0.0	10.5	2009.6	-8.1
125	0110 1110	1991.25	2020.7	6.3	0.8	19.2	2025.5	-4.8

ORIGINAL PAGE IS OF POOR QUALITY

[illegible] PAGE [illegible]

[illegible]

HAC TEST 527

10/30 [illegible]

TIME (SEC) MSEC	AND DIGITAL TIME SEC	TEA VOLTS	ANALOG INPUT VOLTAGE LEVELS RATIO NOMINAL	PEAK	(V) [illegible]	DIGITAL [illegible] THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
[illegible]	0111 1101	[illegible]	2043.6	-4.9	[illegible]	[illegible]	[illegible]	2.2
[illegible]	0111 1100	[illegible]	[illegible]	0.9	-3.2	[illegible]	[illegible]	2.1
[illegible]	0111 1011	[illegible]	[illegible]	-0.0	[illegible]	[illegible]	[illegible]	1.6
[illegible]	0111 1010	[illegible]	694.4	0.8	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	0111 1001	[illegible]	2109.3	-0.8	[illegible]	[illegible]	2164.5	4.4
[illegible]	0111 1000	[illegible]	2121.8	[illegible]	[illegible]	[illegible]	[illegible]	1.1
[illegible]	0111 [illegible]	[illegible]	[illegible]	-4.4	[illegible]	[illegible]	[illegible]	-4.0
[illegible]	0111 0110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	0111 0101	[illegible]	2170.7	-1.8	[illegible]	[illegible]	2168.3	2.5
[illegible]	0111 0100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2.0
[illegible]	0111 0011	[illegible]	2198.0	-4.1	[illegible]	[illegible]	[illegible]	2.1
[illegible]	0111 0010	[illegible]	[illegible]	-0.9	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	0111 0001	[illegible]	2230.8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	0111 0000	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-2.8
[illegible]	0110 1111	[illegible]	[illegible]	-6.0	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	0110 1110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-5.2
[illegible]	0110 1101	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	0110 1100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	0110 1011	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	0110 1010	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	0110 1001	[illegible]	2360.9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	0110 1000	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	0110 0111	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	0110 0110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-4.8
[illegible]	0110 0101	[illegible]	2421.4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	0110 0100	[illegible]	2443.2	-0.8	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	0110 0011	[illegible]	2446.4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST 527

NOV 30 '81

DIRECTED NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE LEVELS RATIO NOMINAL	TOLER	(MV) 1.21 UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
158	0110 0010	2438.75	2476.7	1.0	0.9	30.3	2469.9	6.8
159	0110 0001	2444.38	2488.2	-5.0	-0.8	11.4	2485.8	2.4
160	0110 0000	2446.00	2502.9	-0.9	0.6	14.7	2501.7	1.2
161	0101 1111	2471.63	2510.9	0.0	-3.5	8.0	2517.6	6.6
162	0101 1110	2491.25	2525.7	0.8	0.8	14.8	2533.4	-7.7
163	0101 1101	2506.88	2548.8	0.9	0.9	23.1	2549.3	-0.5
164	0101 1100	2522.50	2562.8	0.8	0.0	13.9	2565.2	2.4
165	0101 1011	2538.13	2577.0	-4.0	-5.7	14.3	2581.1	-4.0
166	0101 1010	2553.75	2600.3	-6.0	0.9	23.2	2596.9	3.4
167	0101 1001	2569.38	2611.3	-1.3	1.2	15.0	2612.8	2.5
168	0101 1000	2585.00	2622.1	-0.0	0.9	9.8	2628.7	1.6
169	0101 0111	2600.63	2637.6	-3.6	3.8	15.5	2644.6	-7.0
170	0101 0110	2616.25	2653.7	-0.9	0.8	18.1	2660.4	-4.7
171	0101 0101	2631.88	2671.9	1.5	-0.1	18.2	2676.3	-0.4
172	0101 0100	2647.50	2692.0	6.7	1.2	15.1	2692.2	0.1
173	0101 0011	2663.13	2699.6	0.0	3.9	7.6	2708.1	8.4
174	0101 0010	2678.75	2729.4	1.0	1.0	9.7	2723.9	5.5
175	0101 0001	2694.38	2740.6	-0.0	1.2	11.2	2739.8	0.8
176	0101 0000	2710.00	2756.6	0.9	0.9	15.0	2755.7	0.9
177	0100 1111	2725.63	2759.8	3.6	3.8	3.2	2771.6	-11.8
178	0100 1110	2741.25	2779.3	-0.8	0.0	19.5	2787.4	8.1
179	0100 1101	2756.88	2803.3	1.0	-1.0	23.0	2803.3	0.9
180	0100 1100	2772.50	2811.7	-0.1	0.8	15.3	2819.2	3.5
181	0100 1011	2788.13	2826.0	3.8	4.2	16.3	2835.0	9.0
182	0100 1010	2803.75	2862.3	-0.1	0.7	26.3	2850.9	1.3
183	0100 1001	2819.38	2866.7	-4.0	0.5	14.4	2866.8	0.1

ORIGINAL PAGE IS
OF POOR QUALITY

HAC TEST 527

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT CODE	[illegible]	ANALOG INPUT NOMINAL	[illegible] ERROR	[illegible] UPPER	[illegible] THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
[illegible]	0110 1000	[illegible]	2888.5	0.9	0.9	21.0	2888.7	3.8
[illegible]	[illegible]	[illegible]	[illegible]887.6	2.8	9.0	[illegible]	[illegible]898.5	-11.0
[illegible]	0106 0100	[illegible]	2207.2	0.7	[illegible]	[illegible]	[illegible]	-6.7
[illegible]	0 [illegible] 010	[illegible]	2238.0	4.4	1.6	20.3	2530.3	2.3
[illegible]	[illegible]	[illegible]	2949.8	0.2	0.8	21.7	[illegible]	1.5
[illegible]	0100 3011	[illegible]	[illegible]	[illegible]	-1.1	2.4	2262.0	-[illegible] 0
[illegible]	0106 0110	[illegible]	2281.8	0.2	5.9	[illegible]	[illegible]	1.3
[illegible]	0110 0001	[illegible]	[illegible]	[illegible]	5.9	[illegible].7	2293.8	3.0
[illegible]	0110 0000	[illegible]	3004.8	-0.5	[illegible]	[illegible]	3309.7	1.9
[illegible]	0011 1111	[illegible]	3018.5	-1.9	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	0011 [illegible]	[illegible]	3040.3	-3.1	-3.1	21.0	3043 [illegible]	-1.1
[illegible]	[illegible]	[illegible]	3056.7	1.0	1.8	15.4	[illegible]	-0.6
[illegible]	[illegible]	[illegible]	3367.8	-0.0	[illegible]	[illegible]	[illegible]	-5.3
[illegible]	[illegible] 1011	[illegible]	[illegible]	-4.5	[illegible] 6	[illegible]	3039.0	-3.5
[illegible]	[illegible] 10.0	[illegible]	[illegible]	0.9	[illegible] 9	[illegible]	[illegible]	1.1
[illegible]	[illegible]	[illegible]	[illegible] 72.9	-0.3	[illegible]	14.7	3120.3	2.1
[illegible]	[illegible]	[illegible]	[illegible]	3.2	[illegible]	11.3	[illegible]	-2.0
[illegible]	[illegible] 0111	[illegible]	[illegible] 42.1	[illegible]	[illegible]	7.4	[illegible]	-10.5
[illegible]	[illegible]	[illegible]	3163.9	[illegible]	-0.0	21.9	[illegible]	-4.[illegible]
[illegible]	[illegible]	[illegible] 91.98	3.86.0	[illegible]	1	22.1	3184.3	1.0
[illegible]	[illegible] 0.00	[illegible]	3199.8	0.4	[illegible]	13.7	[illegible]	-0.[illegible]
[illegible]	0011 [illegible]	[illegible]	[illegible]	[illegible]	[illegible] 9	3.6	3216.0	7.7
[illegible]	0011 0010	[illegible]	[illegible]	[illegible] 9	[illegible]	16.0	[illegible]	3.4
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11.2	3247.3	1.0
[illegible]	0011 0000	[illegible]	3263.6	0.7	3.1	14.1	[illegible]	9.6
205	00.0 1111	[illegible].63	3269.4	[illegible] 3	3.2	5.8	3279.5	-10.[illegible]

ORIGINAL PAGE IS OF POOR QUALITY

[illegible] 36 [illegible] MUX UNIT TEST [illegible] S/N 3 PAGE 380
[illegible] 15:06:19 PENALTY [illegible] PERFORMANCE @ AMBIENT TEMP.
[illegible]

HAC TEST S27

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO- NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
210	0010 1110	3241.25	3294.5	0.1	1.0	25.1	3295.4	-0.9
211	0010 1101	3256.88	3312.0	-1.0	1.1	17.5	3311.3	0.8
212	0010 1100	3272.50	3324.0	-0.3	0.9	12.0	3327.1	-3.1
213	0010 1011	3288.13	3335.4	3.9	0.0	11.4	3343.0	-7.6
214	0010 1010	3303.75	3362.7	0.7	0.7	27.3	3358.9	3.9
215	0010 1001	3319.38	3376.8	-4.3	-0.0	14.0	3374.8	2.0
216	0010 1000	3335.00	3395.6	0.9	-0.8	18.9	3390.6	5.0
217	0010 0111	3350.63	3400.7	-0.0	-3.8	5.0	3406.5	5.8
218	0010 0110	3366.25	3418.0	0.8	1.0	17.4	3422.4	4.9
219	0010 0101	3381.88	3439.7	1.1	1.2	21.6	3438.3	1.4
220	0010 0100	3397.50	3458.9	-1.0	0.0	19.2	3454.1	4.7
221	0010 0011	3413.13	3467.3	-4.0	-3.6	8.4	3470.0	-2.7
222	0010 0010	3428.75	3493.1	0.8	0.1	25.8	3485.9	7.2
223	0010 0001	3444.38	3505.6	1.0	-0.9	12.5	3501.8	3.8
224	0010 0000	3460.00	3521.8	-0.1	0.9	16.2	3517.6	4.2
225	0001 1111	3475.63	3528.4	-3.2	3.6	6.6	3533.5	-5.1
226	0001 1110	3491.25	3542.8	0.5	0.3	21.4	3549.4	0.5
227	0001 1101	3506.88	3562.9	4.8	3.7	13.0	3565.3	-2.4
228	0001 1100	3522.50	3575.4	1.2	1.2	12.5	3581.1	-5.7
229	0001 1011	3528.13	3596.2	-4.5	-0.0	20.8	3597.0	-6.8
230	0001 1010	3553.75	3618.7	-1.1	1.0	22.5	3612.9	5.8
231	0001 1001	3569.38	3633.1	1.0	0.6	14.4	3628.7	4.3
232	0001 1000	3585.00	3643.8	0.9	1.0	10.7	3644.6	0.8
233	0001 0111	3600.63	3653.5	3.5	3.6	9.6	3660.5	7.0
234	0001 0110	3616.25	3674.9	-1.0	0.1	21.4	3676.4	1.5
235	0001 0101	3631.88	3697.3	-1.4	5.4	22.4	3692.2	5.0
236	0001 0100	3637.50	3711.1	0.7	0.2	13.9	3708.1	3.0

ORIGINAL PAGE IS OF POOR QUALITY

HS-27 THERMOELECTRIC DIGITAL MUX UNIT TEST MODEL .. FLT. S/N 3 PAGE 381

1981/11/20 13:06:18 DENSITY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] HAC TEST S27 NOV 30 81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	TOTAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS NOMINAL	RATIO- LOWER	1 :1 UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
237	0001 0011	3663.13	3720.5	3.7	4.1	9.4	3724.0	-3.5
238	0001 0010	3678.75	3748.6	-0.2	1.1	28.1	3739.9	8.8
239	0001 0001	3694.38	3761.8	-3.0	-3.8	13.1	3755.7	6.0
240	0001 0000	3710.00	3781.2	-1.1	-1.1	19.5	3771.6	9.6
241	0000 1111	3725.63	3801.5	3.3	-6.0	0.3	3787.5	-5.9
242	0000 1110	3741.25	3806.6	0.6	3.6	25.1	3803.4	3.3
243	0000 1101	[illegible]	3824.2	[illegible]	-8.1	17.6	3819.2	5.0
244	0000 1100	[illegible]	3836.9	-1.0	-0.9	12.7	[illegible]	1.8
245	0000 1011	3788.13	3852.8	-0.0	-4.3	15.9	3851.0	1.9
246	0000 1010	3803.75	3875.4	0.7	1.0	22.5	3866.9	8.5
247	0000 1001	3819.38	3890.5	-0.5	[illegible]	15.1	3882.7	7.7
248	0000 1000	[illegible]	3911.6	-1.2	-0.1	21.2	3898.6	13.0
249	0000 [illegible]	[illegible]	3914.1	-3.1	-2.9	2.5	3914.5	-0.4
250	0000 0110	3866.25	3931.2	0.3	0.1	17.0	3930.4	0.8
251	0000 0101	3881.88	3949.2	5.0	4.9	18.1	3946.2	3.0
252	0000 0100	3897.50	3973.5	-0.2	0.3	24.3	3962.1	11.4
253	0000 0011	3913.13	3981.9	-4.3	-3.5	8.4	3978.0	4.0
254	0000 0010	3928.75	4007.6	-1.1	-1.1	25.6	3993.8	13.7
255	0000 0001	3944.38	4015.4	2.5	4.5	7.8	4009.7	5.7

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 382
1981/11/30 13:12:41 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.3.5-8 A/D THRESHOLD TEST (BAND= 2, SENSOR=13)
S U M M A R Y

HAC TEST S27

CHECK 1) RMS ERROR, 2) THRESHOLD INCREMENT(+/- 0.0 = THRH INC <= 31.2)
THE REMAINING DATA ARE FOR INFORMATION ONLY

BEST FIT STRAIGHT LINE IS: Y =15.898X -34.0MV

DEVIATION OF SLOPE FROM IDEAL IS: 1.749%
OFFSET IS:-34.0MV
COEFFICIENT OF DETERMINATION IS: R**2= .99998610
ANALOG INPUT DURING DC RESTORE IS:64.4MV

RMS ERROR = 4.483MV REQMT: RMS ERROR <=7.812MV

THRESHOLD INCREMENT MEASUREMENT

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
27.9MV	158	15.970MV	1.2MV	185	5.677MV

LOWER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
2.5MV	8	-0.079MV	-4.7MV	186	.737MV

UPPER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
5.0MV	170	0.051MV	-1.6MV	197	.790MV

TEST PASSED

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO- 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
THE FOLLOWING DATA ARE FOR INFORMATION ONLY								
1	1111 1111	24.375	-25.0	-1.3	0.8		-18.1	-6.9
2	1111 1110	8.750	-5.8	-0.4	-0.1	19.1	-2.7	-3.7
3	1111 1101	6.875	12.4	0.8	0.7	18.3	13.7	-1.3
4	1111 1100	22.500	24.7	0.4	0.4	12.3	29.6	-4.9
5	1111 1011	38.125	42.0	-0.8	-0.1	17.3	45.5	-3.5
6	1111 1010	53.750	64.4	-0.2	-0.1	22.4	61.4	3.0
7	1111 1001	69.375	79.8	-0.1	-0.8	15.4	77.3	2.5
8	1111 1000	85.000	88.7	2.5	2.5	8.8	93.2	-4.6
9	1111 0111	100.625	102.5	0.7	0.9	13.8	109.1	-6.6
10	1111 0110	116.250	125.3	-0.2	-0.1	22.7	125.0	0.2
11	1111 0101	131.875	141.2	0.6	-0.6	15.9	140.9	0.2
12	1111 0100	147.500	158.2	0.2	-0.0	17.0	156.9	1.3
13	1111 0011	163.125	169.4	0.8	0.0	11.3	172.7	-3.3
14	1111 0010	178.750	195.1	-0.1	0.1	25.7	188.6	6.5
15	1111 0001	194.375	208.2	-1.0	-0.9	13.1	204.5	3.7
16	1111 0000	210.000	216.5	-0.3	-0.2	8.2	220.4	-3.9
17	1110 1111	225.625	230.0	0.8	0.8	13.5	236.3	-6.3
18	1110 1110	241.250	250.1	-0.0	0.0	20.1	252.2	-2.1
19	1110 1101	256.875	269.0	-0.6	-0.1	18.9	268.1	0.9
20	1110 1100	272.500	284.0	-0.3	-0.2	14.9	284.0	-0.0
21	1110 1011	288.125	297.7	-0.1	-0.8	13.7	299.9	-2.2
22	1110 1010	303.750	320.2	0.0	0.1	22.5	315.8	4.4
23	1110 1001	319.375	334.6	0.7	0.8	14.4	331.7	2.9
24	1110 1000	335.000	353.1	-0.5	-0.4	18.4	347.6	5.5
25	1110 0111	350.625	359.0	-0.9	-0.9	5.9	363.5	-4.5

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 384
1981/11/30 13:12:55 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.3.5-8 A/D THRESHOLD TEST (BAND= 2, SENSOR=13)

HAC TEST S27

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
26	1110 0110	366.250	381.2	0.1	-0.1	22.1	379.4	1.8
27	1110 0101	381.875	396.4	0.2	0.3	15.2	395.3	1.1
28	1110 0100	397.500	417.5	-0.1	0.4	21.2	411.2	6.3
29	1110 0011	413.125	425.8	-0.9	-0.8	8.2	427.1	-1.3
30	1110 0010	428.750	451.1	-0.2	-0.2	25.4	443.0	8.1
31	1110 0001	444.375	462.7	0.9	0.8	11.5	458.9	3.8
32	1110 0000	460.000	474.7	1.3	1.4	12.0	474.8	-0.1
33	1101 1111	475.625	487.0	-0.9	-0.1	12.3	490.7	-3.7
34	1101 1110	491.250	504.9	-0.1	-0.1	17.8	506.6	-1.7
35	1101 1101	506.875	525.0	-0.1	-0.7	20.1	522.5	2.5
36	1101 1100	522.500	536.4	0.4	0.4	11.4	538.4	-1.9
37	1101 1011	538.125	552.9	0.7	0.8	16.4	554.3	-1.4
38	1101 1010	553.750	575.5	-0.3	-0.3	22.6	570.2	5.3
39	1101 1001	569.375	591.1	-0.6	-0.5	15.6	586.1	5.0
40	1101 1000	585.000	602.9	0.7	0.0	11.8	602.0	1.0
41	1101 0111	600.625	614.0	0.7	0.7	11.1	617.9	-3.9
42	1101 0110	616.250	635.7	-3.3	0.0	21.7	633.8	1.9
43	1101 0101	631.875	652.8	-0.5	-0.5	17.1	649.7	3.1
44	1101 0100	647.500	669.9	-0.3	-0.2	17.1	665.6	4.3
45	1101 0011	663.125	680.4	0.8	0.7	10.6	681.5	-1.0
46	1101 0010	678.750	705.3	0.2	0.2	24.9	697.4	7.9
47	1101 0001	694.375	718.7	-0.8	0.0	13.4	713.3	5.5
48	1101 0000	710.000	733.9	-0.4	-0.6	15.1	729.2	4.7
49	1100 1111	725.625	741.6	-0.1	-0.9	7.7	745.1	-3.5
50	1100 1110	741.250	759.8	-0.0	-0.1	18.3	761.0	-1.1
51	1100 1101	756.875	778.8	0.5	0.5	18.9	776.9	1.9

ORIGINAL PAGE IS OF POOR QUALITY

HS-2[illegible] THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 385

1981/11/30 13:12:55 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] THRESHOLD TEST (BAND= 2, SENSOR=13)

HAC TEST S27

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
52	1100 1100	772.500	793.9	-0.0	-0.0	15.2	792.8	1.2
53	1100 1011	788.125	807.9	-0.9	-0.9	13.9	808.7	-0.8
54	1100 1010	803.750	829.4	0.3	-0.0	21.5	824.6	4.8
55	1100 1001	819.375	845.0	-0.1	-0.1	15.6	840.5	4.5
56	1100 1000	835.000	865.0	-0.0	0.4	20.0	856.3	8.6
57	1100 0111	850.625	868.7	-0.9	-0.9	3.7	872.2	-3.6
58	1100 0110	866.250	890.1	-0.2	-0.3	21.4	888.1	2.0
59	1100 0101	881.875	906.0	0.4	0.4	15.8	904.0	1.9
60	1100 0100	897.500	926.2	1.4	1.3	20.2	919.9	6.3
61	1100 0011	913.125	934.6	-0.8	-0.1	8.4	935.8	-1.2
62	1100 0010	928.750	959.2	-0.2	-0.2	24.6	951.7	7.5
63	1100 0001	944.375	971.9	-0.0	-0.7	12.7	967.6	4.3
63	1100 0000	960.000	980.6	0.4	0.4	8.6	983.5	-3.0
65	1011 1111	975.625	996.4	0.8	0.8	15.8	999.4	-3.0
66	1011 1110	991.250	1015.7	-0.6	0.7	19.3	1015.3	0.4
67	1011 1101	1006.88	1035.0	-0.8	-0.8	19.2	1031.2	3.8
68	1011 1100	1022.50	1044.8	0.3	-0.0	9.8	1047.1	-2.4
69	1011 1011	1038.13	1062.3	0.7	0.9	17.5	1063.0	-0.7
70	1011 1010	1053.75	1084.7	0.0	0.0	22.4	1078.9	5.8
71	1011 1001	1069.38	1100.5	-0.6	-0.6	15.8	1094.8	5.7
72	1011 1000	1085.00	1109.1	-0.1	-0.6	8.6	1110.7	-1.6
73	1011 0111	1100.63	1123.0	1.2	0.8	15.9	1126.6	-3.6
74	1011 0110	1116.25	1144.4	0.0	-0.0	21.4	1142.5	1.9
75	1011 0101	1131.88	1161.4	-0.1	0.5	17.0	1158.4	3.0
76	1011 0100	1147.50	1177.3	-0.4	-0.5	15.9	1174.3	3.0
77	1011 0011	1163.13	1189.7	0.0	-0.8	12.4	1190.2	-0.5
78	1011 0010	1178.75	1214.1	0.2	0.2	24.4	1206.1	8.0

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 386
1981/11/30 13:12:55 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.3.5-8 A/D THRESHOLD TEST (BAND= 2, SENSOR=13)

HAC TEST S27

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO- 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
79	1011 0001	1194.38	1226.2	-0.1	0.6	12.1	1222.0	4.2
80	1011 0000	1210.00	1238.1	-0.3	-0.3	11.9	1237.9	0.2
81	1010 1111	1225.63	1250.0	-0.7	-0.9	11.9	1253.8	-3.8
82	1010 1110	1241.25	1267.7	0.2	-0.1	17.7	1269.7	-2.0
83	1010 1101	1256.88	1287.1	0.4	0.4	19.3	1285.6	1.5
84	1010 1100	1272.50	1300.6	-0.0	0.5	13.5	1301.5	-0.9
85	1010 1011	1288.13	1315.9	-0.9	-0.9	15.3	1317.4	-1.5
86	1010 1010	1303.75	1338.1	0.1	-0.4	22.2	1333.3	4.8
87	1010 1001	1319.38	1352.7	0.5	0.5	14.6	1349.2	3.5
88	1010 1000	1335.00	1370.1	0.5	0.2	17.3	1365.1	5.0
89	1010 0111	1350.63	1376.7	-1.0	-0.1	6.7	1381.0	-4.3
90	1010 0110	1366.25	1397.6	-0.3	-0.4	20.9	1396.9	0.7
91	1010 0101	1381.88	1414.5	-0.2	-1.0	16.9	1412.8	1.7
92	1010 0100	1397.50	1434.0	0.1	0.0	19.5	1428.7	5.3
93	1010 0011	1413.13	1441.5	0.0	0.9	7.4	1444.6	-3.1
94	1010 0010	1428.75	1467.1	-0.3	-0.3	25.7	1460.5	6.7
95	1010 0001	1444.38	1479.2	-0.7	-0.6	12.0	1476.4	2.8
96	1010 0000	1460.00	1495.4	1.2	0.0	16.2	1492.3	3.1
97	1001 1111	1475.63	1502.6	0.5	0.5	7.2	1508.2	-5.6
98	1001 1110	1491.25	1519.8	0.1	1.4	17.2	1524.1	-4.2
99	1001 1101	1506.88	1540.4	-0.4	-0.4	20.5	1540.0	0.4
100	1001 1100	1522.50	1551.1	0.0	-0.6	10.7	1555.9	-4.8
101	1001 1011	1538.13	1568.3	0.8	0.8	17.2	1571.8	-3.4
102	1001 1010	1553.75	1590.2	0.1	0.1	21.8	1587.7	2.5
103	1001 1001	1569.38	1607.5	-1.4	-0.5	17.3	1603.6	3.9
104	1001 1000	1585.00	1617.9	-0.6	-0.6	10.4	1619.5	-1.6

ORIGINAL PAGE IS OF POOR QUALITY

HS-[illegible] THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 387

1981/11/30 13:12:55 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] A/D THRESHOLD TEST (BAND= 2, SENSOR= 13)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
10[illegible]	1001 0111	1600.63	1630.0	-0.0	-1.0	12.1	1635.4	-5.4
10[illegible]	1001 0110	1616.25	1649.4	0.1	-0.1	19.4	1651.3	-1.9
10[illegible]	1001 0101	1631.88	1666.9	-0.1	0.5	17.5	1667.2	-0.2
10[illegible]	1001 0100	1647.50	1683.6	-0.3	-0.5	16.7	1683.[illegible]	0.6
10[illegible]	1001 0011	1663.13	1695.6	-0.8	-0.8	11.9	1699.0	-3.4
11[illegible]	1001 0010	1678.75	1719.2	0.3	-0.1	23.6	1714.9	4.4
11[illegible]	1001 0001	1694.38	1732.4	0.2	-0.0	13.2	1730.8	1.6
11[illegible]	1001 0000	1710.00	1751.6	-0.9	0.0	18.6	1746.7	4.3
113	1000 1111	1725.63	1755.6	-0.5	-0.5	4.7	1762.5	-6.9
114	1000 1110	1741.25	1772.8	0.0	-0.2	17.1	1778.4	-5.7
11[illegible]	1000 1101	1756.88	1792.5	0.6	0.6	19.7	1794.3	-1.8
11[illegible]	1000 1100	1772.50	1806.5	-0.0	-0.3	14.0	1810.2	-3.7
1[illegible]	1000 1011	1788.13	1821.6	-0.9	0.1	15.0	1826.1	-4.6
11[illegible]	1000 1010	1803.75	1843.2	-0.4	-0.4	21.6	1842.0	1.1
119	1000 1001	1819.38	1858.7	0.7	0.0	15.5	1857.9	0.7
1[illegible]	1000 1000	1835.00	1877.5	0.5	0.4	18.9	1873.8	3.7
121	1000 0111	1850.63	1881.4	0.1	0.9	3.8	1889.7	-8.4
12[illegible]	1000 0110	1866.25	1902.5	-0.0	-0.2	21.1	1905.6	-3.1
123	1000 0101	1881.88	1919.5	-0.3	-0.3	17.0	1921.5	-2.0
124	1000 0100	1897.50	1940.3	-0.1	-0.2	20.7	1937.4	2.8
125	1000 0011	1913.13	1947.0	0.8	0.8	6.7	1953.3	-6.3
1[illegible]	1000 0010	19[illegible]8.75	1972.1	-0.2	-0.0	25.0	1969.2	2.8
127	1000 0001	1944.38	1985.3	-0.5	0.6	13.3	1985.1	0.2
1[illegible]	1000 0000	19[illegible].00	1997.6	-0.0	0.3	12.2	2001.0	-3.[illegible]
129	0111 1111	1975.63	2011.2	0.5	0.5	13.6	2016.9	5.7
130	0111 1110	1991.25	2032.7	0.1	0.1	21.5	2032.8	-0.1

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 388

1981/11/30 13:12:55 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.1.3.5-8 A/D THRESHOLD TEST (BAND= 2, SENSOR=13)

HAC TEST 527

10 30 81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) NOMINAL	LEVELS RATIO- LOWER	L :1 UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
131	0111 1101	2006.88	2051.7	-0.8	0.1	19.0	2048.7	3.0
132	0111 1100	2022.50	2060.9	-0.3	-0.3	9.2	2064.6	-3.7
133	0111 1011	2038.13	2076.6	0.9	0.0	15.7	2080.5	-3.9
134	0111 1010	2053.75	2101.2	-0.0	-0.0	24.6	2096.4	4.9
135	0111 1001	2069.38	2114.0	0.0	0.5	12.8	2112.3	1.7
136	0111 1000	2085.00	2128.2	-0.6	-0.6	14.1	2128.2	-0.0
137	0111 0111	2100.63	2138.7	-1.2	-1.2	10.5	2144.1	-5.4
138	0111 0110	2116.25	2161.7	0.3	-0.1	23.0	2160.0	1.7
139	0111 0101	2131.88	2178.5	-0.8	0.3	16.9	2175.9	2.6
140	0111 0100	2147.50	2192.5	0.5	-0.0	14.0	2191.8	0.7
141	0111 0011	2163.13	2204.2	-1.0	-0.9	11.7	2207.7	-3.5
142	0111 0010	2178.75	2230.8	0.0	-0.1	26.6	2223.6	7.2
143	0111 0001	2194.38	2240.3	0.6	0.6	9.4	2239.5	0.8
144	0111 0000	2210.00	2253.2	1.3	1.2	12.9	2255.4	-2.2
145	0110 1111	2225.63	2264.5	-0.5	0.0	11.3	2271.3	-6.8
146	0110 1110	2241.25	2286.2	-0.6	-0.6	21.7	2287.2	-1.0
147	0110 1101	2256.88	2303.7	0.3	-0.1	17.5	2303.1	0.6
148	0110 1100	2272.50	2316.5	0.9	0.9	12.8	2319.0	-2.5
149	0110 1011	2288.13	2329.4	0.0	0.9	12.8	2334.9	-5.5
150	0110 1010	2303.75	2354.7	-0.4	-0.3	25.3	2350.3	3.9
151	0110 1001	2319.38	2367.5	-0.6	-0.7	12.8	2366.7	0.8
152	0110 1000	2335.00	2386.3	0.4	-0.0	18.8	2382.6	3.7
153	0110 0111	2350.63	2390.2	1.2	1.1	3.9	2398.5	-8.3
154	0110 0110	2366.25	2409.8	-0.3	-0.1	19.5	2413.4	-4.6
155	0110 0101	2381.88	2431.3	-0.2	-0.4	21.5	2430.3	1.0
156	0110 0100	2397.50	2449.7	0.0	0.2	18.4	2446.2	3.5
157	0110 0011	2413.13	2455.9	0.9	0.8	6.3	2462.1	-6.1

ORIGINAL PAGE IS OF POOR QUALITY

HS-[illegible] THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 389
1981 11/30 13:12:55 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
[illegible] A/D THRESHOLD TEST (BAND= 2, SENSOR=13)

HAC TEST S27

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO NOMINAL	LOWER	1:1 UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
158	0110 0010	2478.75	2483.8	0.2	0.2	27.9	2478.0	5.8
159	0110 0001	2494.38	2493.6	-0.9	-0.1	9.7	2493.9	-0.3
160	0110 0000	2500.00	2509.4	-1.4	-1.4	15.8	2509.8	-0.4
161	0101 1111	2[illegible].63	2517.3	0.4	0.0	7.8	2525.7	-8.4
162	0101 1110	2491.25	2539.9	-0.1	-0.3	22.6	2541.6	-1.7
163	0101 1101	2506.88	2556.7	-0.1	0.4	14.8	2557.5	-0.8
164	0101 1100	2522.50	2567.3	-0.7	-0.8	10.6	2573.4	-6.0
165	0101 1011	2[illegible]3.13	2584.0	-1.1	1.1	16.7	2589.3	-5.2
166	0101 1010	2553.75	2607.1	0.1	-0.1	23.1	2605.2	1.9
167	0101 1001	2569.38	2624.2	-3.3	0.4	17.1	2621.1	3.1
168	0101 1000	2585.00	2632.7	-0.5	0.0	8.5	2637.0	-4.3
169	0101 0111	2600.63	2644.7	-0.7	0.7	12.0	2652.9	-8.1
170	0101 0110	2616.25	2662.4	-0.1	1.0	17.7	2668.8	-6.4
171	0101 0101	2631.88	2684.1	0.3	0.4	21.7	2684.6	-0.5
172	0101 0100	2647.50	2699.6	1.6	1.6	15.4	2700.5	-1.0
173	0101 0011	2663.13	2710.2	-0.1	0.7	10.6	2716.4	-6.3
174	0101 0010	2678.75	2736.6	-0.2	-0.1	26.4	2732.3	4.2
175	0101 0001	2694.38	2746.8	0.6	-0.1	10.3	2748.2	-1.4
176	0101 0000	2710.00	2765.1	0.4	0.5	18.3	2764.1	1.0
177	0100 1111	2725.63	2770.1	0.0	0.4	4.9	2780.0	-10.0
178	0100 1110	2741.25	2792.3	-0.5	-0.5	22.3	2795.9	-3.6
179	0100 1101	2756.88	2809.8	-0.5	-0.4	17.5	2811.8	-2.0
180	0100 1100	2772.50	2823.0	-0.1	-0.0	13.2	2827.7	-4.8
181	0100 1011	2788.13	2835.8	0.9	1.1	12.8	2843.6	-7.8
182	0100 1010	2803.75	2860.7	-0.3	0.0	24.9	2859.5	1.2
183	0100 1001	2819.38	2877.3	-0.4	-0.4	16.6	2875.4	1.8

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 390

1981/11/30 13:12:55 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] A/D THRESHOLD TEST (BAND= 2, SENSOR=13)

HAC TEST S27

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO- 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
184	0100 1000	2835.00	2895.7	0.0	-0.1	18.5	2891.3	4.4
185	0100 0111	2850.63	2897.0	0.7	0.6	1.2	2907.2	-10.2
186	0100 0110	2866.25	2920.2	-4.7	0.7	23.2	2923.1	-2.9
187	0100 0101	2881.88	2937.3	-0.4	-0.4	17.0	2939.0	-1.8
188	0100 0100	2897.50	2957.6	-0.3	-0.3	20.3	2954.9	2.6
189	0100 0011	2913.13	2962.5	0.9	-0.1	4.9	2970.8	-8.3
190	0100 0010	2928.75	2990.0	0.1	0.2	27.5	2986.7	3.2
191	0100 0001	2944.38	3000.1	-0.1	0.6	10.1	3002.6	-2.5
192	0100 0000	2960.00	3013.5	-0.1	-0.1	13.3	3018.5	-5.1
193	0011 1111	2975.63	3025.9	-0.5	-1.1	12.5	3034.4	-8.5
194	0011 1110	2991.25	3047.8	-0.1	-0.1	21.9	3050.3	-2.5
195	0011 1101	3006.88	3065.0	0.9	1.0	17.2	3066.2	-1.2
196	0011 1100	3022.50	3074.5	-0.4	-0.1	9.5	3082.1	-7.6
197	0011 1011	3038.13	3093.1	-1.6	-1.6	18.6	3098.0	-4.9
198	0011 1010	3053.75	3116.0	-0.0	-0.1	22.9	3113.9	2.1
199	0011 1001	3069.38	3129.1	0.7	4.7	13.1	3129.8	-0.7
200	0011 1000	3085.00	3137.7	0.3	0.3	8.6	3145.7	-8.0
201	0011 0111	3100.63	3153.7	-0.5	-0.5	15.9	3161.6	-7.9
202	0011 0110	3116.25	3178.0	-0.5	-0.4	24.3	3177.5	0.5
203	0011 0101	3131.88	3193.6	0.5	0.0	15.6	3193.4	0.2
204	0011 0100	3147.50	3207.7	-0.4	1.9	14.1	3209.3	-1.6
205	0011 0011	3163.13	3219.0	0.0	1.0	11.4	3225.2	-6.2
206	0011 0010	3178.75	3246.7	-0.4	-0.2	27.6	3241.1	5.6
207	0011 0001	3194.38	3257.1	-0.7	-0.7	10.4	3257.0	0.1
208	0011 0000	3210.00	3272.9	0.1	0.1	15.8	3272.9	0.0
209	0010 1111	3225.63	3280.0	0.5	0.5	7.1	3288.8	-8.8

ORIGINAL PAGE IS OF POOR QUALITY

HS-[illegible] THEMATIC MAPPER BOX UNIT TEST MODEL.. FLT. S/N 9 PAGE 391

1981/11/30 13:12:55 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] A/D THRESHOLD TEST (BAND= 2, SENSOR=13)

HAC TEST 527

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO- 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
210	0010 1110	3241.25	3303.2	0.1	0.4	23.2	3304.7	-1.5
211	0010 1101	3254.88	3320.5	-0.6	-0.6	17.3	3320.6	-0.1
212	0010 1100	3272.50	3333.0	-0.0	1.1	12.5	3336.5	-3.5
213	0010 1011	3288.13	3346.5	0.7	0.7	13.5	3352.4	-5.9
214	0010 1010	3303.75	3371.4	0.0	0.0	24.9	3368.3	3.1
215	0010 1001	3319.38	3388.7	-1.0	-1.0	17.3	3384.2	4.5
216	0010 1000	3335.00	3403.7	0.0	0.1	15.0	3400.1	3.7
217	0010 0111	3350.63	3407.9	0.8	0.0	4.2	3416.0	-8.0
218	0010 0110	3366.25	3432.5	0.6	0.7	24.5	3431.9	0.6
219	0010 0101	3381.88	3448.7	-0.1	0.5	16.2	3447.8	1.0
220	0010 0100	3397.50	3467.4	-0.3	-0.3	18.6	3463.7	3.7
221	0010 0011	3413.13	3475.4	-1.0	-1.0	8.0	3479.6	-4.2
222	0010 0010	3428.75	3502.1	0.1	0.2	26.7	3495.5	6.6
223	0010 0001	3444.38	3512.0	0.5	0.7	9.9	3511.4	0.6
224	0010 0000	3460.00	3532.6	-1.3	-0.0	20.6	3527.3	5.3
225	0001 1111	3475.63	3536.7	-0.6	0.6	4.1	3543.2	-6.5
226	0001 1110	3491.25	3558.5	-0.1	0.1	21.8	3559.1	-0.5
227	0001 1101	3506.88	3576.0	0.5	0.6	17.4	3575.0	1.0
228	0001 1100	3522.50	3585.1	0.7	0.8	9.1	3590.8	-5.7
229	0001 1011	3538.13	3604.5	-1.3	1.2	19.3	3606.7	-2.3
230	0001 1010	3553.75	3627.3	-0.3	0.2	22.8	3622.6	4.6
231	0001 1001	3569.38	3644.6	0.4	0.0	17.3	3638.5	6.0
232	0001 1000	3585.00	3652.5	0.6	0.6	7.9	3654.4	-2.0
233	0001 0111	3600.63	3665.1	-0.1	0.5	12.6	3670.3	-5.3
234	0001 0110	3616.25	3689.8	-0.6	-0.3	24.7	3686.2	3.6
235	0001 0101	3631.88	3705.9	-0.5	-0.5	16.1	3702.1	3.7
236	0001 0100	3647.50	3720.3	1.9	2.0	14.4	3718.0	2.3

ORIGINAL PAGE IS OF POOR QUALITY

1981/11/30 13:12:55 FINALITY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] -14 [illegible] THERMOCOUPLE [illegible] TEST [illegible] 2 SENSOR-1 [illegible]

HAO TEST S27

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) NOMINAL	LEVELS RATIO- LOWER	1 :1 UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
232	0001 0011	3663.13	3731.7	1.2	1.3	11.4	3733.9	-2.2
233	0001 0010	3678.75	3758.7	-0.3	0.0	27.0	3749.8	8.9
239	0001 0001	3694.38	3770.2	-0.6	3.7	11.5	3765.7	4.5
240	0001 0000	3710.00	3791.0	-0.1	-0.5	20.7	3781.6	9.3
241	0000 1111	3725.63	3793.1	0.5	0.5	2.1	3797.5	-4.5
242	0000 1110	3741.25	3816.1	-0.0	0.0	23.0	3813.4	2.7
243	0000 1101	3756.88	3833.4	-0.6	-0.5	17.3	3829.3	4.1
244	0000 1100	3772.50	3846.3	-0.8	-0.7	12.9	3845.2	1.1
245	0000 1011	3788.13	3860.4	1.1	-0.0	14.1	3861.1	-0.7
246	0000 1010	3803.75	3884.9	0.0	0.2	24.5	3877.0	7.9
247	0000 1001	3819.38	3901.7	-0.1	0.5	16.7	3892.9	8.7
248	0000 1000	3835.00	3920.0	-0.0	0.0	18.3	3908.8	1.1
249	0000 0111	3850.63	3927.9	-0.0	-0.7	3.0	3924.7	-1.8
250	0000 0110	3866.25	3946.6	0.3	0.6	23.7	3940.6	6.0
251	0000 0101	3881.88	3962.6	0.4	0.5	16.0	3956.5	6.1
252	0000 0100	3897.50	3982.5	0.3	-0.1	19.9	3972.4	10.1
253	0000 0011	3913.13	3990.6	-1.3	-1.3	8.1	3988.3	2.3
254	0000 0010	3928.75	4016.6	-0.2	0.2	25.9	4004.2	12.4
255	0000 0001	3944.38	4031.4	-0.5	0.5	14.8	4020.1	11.3

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27

HS-2[illegible] THEMATIC MAPPER MUX UNIT TEST MODEL [illegible] PAGE 393
1981/11/30 13:19:17 [illegible] FULL PERFORMANCE @ AMBIENT TEMP.
[illegible]

CHECK [illegible] (2) THRESHOLD INCREMENT(+/- 0.0 - [illegible] 31.2)
THE [illegible] DATA ARE FOR INFORMATION ONLY

[illegible]

DEVIATION OF SLOPE FROM IDEAL TS: 1.905%
[illegible] TS:-37.[illegible]MV
[illegible] OF DETERMINATION TS: R**2 - .99998360
[illegible] RESTORE TS:64.5MV

[illegible]

[illegible]

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
[illegible].9MV	238	15.985MV	0.[illegible]MV	249	6.227MV

[illegible]

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
[illegible]MV	11	0.049MV	-7.1MV	23[illegible]	.908MV

[illegible]

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
[illegible]MV	130	0.016MV	1.9MV	1[illegible]0	.885MV

TEST [illegible]

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 394

1981/11/20 13:19:31 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] A/D THRESHOLD TEST (BAND= 2, SENSOR=14)

HAC TEST S27

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO- 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
THE FOLLOWING DATA ARE FOR INFORMATION ONLY								
1	1111 1111	-24.375	-29.4	-0.8	-0.1		-21.3	-8.1
2	1111 1110	-8.750	-8.6	0.9	0.0	20.8	-5.4	-3.2
3	1111 1101	6.875	8.5	0.1	0.2	17.2	10.5	-2.0
4	1111 1100	22.500	20.3	-0.0	-0.3	11.7	26.4	-6.2
5	1111 1011	38.125	37.9	0.3	0.3	17.6	42.4	-4.5
6	1111 1010	53.750	62.4	-0.1	-0.9	24.5	58.3	4.2
7	1111 1001	69.375	76.2	-1.3	-1.2	13.7	74.2	2.0
8	1111 1000	85.000	87.2	1.0	1.0	11.0	90.1	-2.9
9	1111 0111	100.625	99.5	-0.2	0.0	12.3	106.0	-6.5
10	1111 0110	116.250	123.8	-1.2	-1.5	24.3	122.0	1.8
11	1111 0101	131.875	137.6	-0.0	-0.7	13.8	137.9	-0.3
12	1111 0100	147.500	153.8	0.8	0.7	16.2	153.8	-0.0
13	1111 0011	163.125	166.7	-0.0	-0.3	12.9	169.7	-3.0
14	1111 0010	178.750	193.6	-1.0	-0.9	26.8	185.7	7.9
15	1111 0001	194.375	203.7	-0.2	-0.2	10.1	201.6	2.1
16	1111 0000	210.000	211.3	0.1	0.1	7.6	217.5	-6.2
17	1110 1111	225.625	226.9	0.1	0.2	15.5	233.4	-6.6
18	1110 1110	241.250	248.2	-0.1	0.8	21.4	249.3	-1.1
19	1110 1101	256.875	265.1	-0.1	-0.1	16.8	265.3	-0.2
20	1110 1100	272.500	279.2	-0.1	-0.1	14.2	281.2	-1.9
21	1110 1011	288.125	294.5	-0.4	-0.2	15.2	297.1	-2.6
22	1110 1010	303.750	313.2	0.8	0.9	23.7	313.0	5.1
23	1110 1001	319.375	331.2	1.3	0.1	13.0	329.0	2.2
24	1110 1000	335.000	350.2	-1.6	-1.7	19.0	344.9	5.3
25	1110 0111	350.625	355.7	-0.1	-0.1	5.5	360.8	-5.1

ORIGINAL PAGE IS OF POOR QUALITY

HS-[illegible] THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 195

1981/11/30 13:19:31 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] A/D THRESHOLD TEST (BAND= 2, SENSOR=14)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1:1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
26	1110 0110	366.250	378.5	1.6	1.6	22.8	376.7	1.8
27	1110 0101	381.875	393.6	-0.0	0.1	15.1	392.7	1.0
28	1110 0100	397.500	415.0	-0.3	-0.3	21.3	408.6	6.4
29	1110 0011	413.125	422.5	0.1	0.2	7.6	424.5	-2.0
30	1110 0010	428.750	449.1	0.9	0.0	26.6	440.4	8.7
31	1110 0001	444.375	459.6	0.0	0.1	10.4	456.3	3.2
32	1110 0000	460.000	472.5	-0.1	-0.2	13.0	472.3	0.3
33	1101 1111	475.625	483.5	-0.2	-0.2	10.9	488.2	-4.7
34	1101 1110	491.250	504.8	-0.1	-0.9	21.3	504.1	0.7
35	1101 1101	506.875	521.4	0.0	0.2	16.6	520.0	1.4
36	1101 1100	522.500	532.7	-0.0	0.0	11.2	536.0	-3.3
37	1101 1011	538.125	550.9	-0.1	0.0	18.2	551.9	-1.0
38	1101 1010	553.750	574.7	-1.0	-0.9	23.7	567.8	6.9
39	1101 1001	569.375	588.8	0.0	0.0	14.1	583.7	5.1
40	1101 1000	585.000	602.6	0.3	0.3	13.8	599.6	3.0
41	1101 0111	600.625	611.8	-0.1	0.1	9.1	615.6	-3.8
42	1101 0110	616.250	635.4	-1.4	-1.3	23.6	631.5	3.9
43	1101 0101	631.875	649.9	-0.2	-0.1	14.5	647.4	2.5
44	1101 0100	647.500	667.0	0.6	-0.1	17.1	663.3	3.7
45	1101 0011	663.125	678.9	-0.3	-0.4	11.9	679.3	-0.4
46	1101 0010	678.750	704.2	-0.0	0.9	25.2	695.2	9.0
47	1101 0001	694.375	715.5	1.0	1.1	11.3	711.1	4.4
48	1101 0000	710.000	728.9	-0.0	-0.5	13.4	727.0	1.8
49	1100 1111	725.625	738.5	0.1	0.2	9.6	743.0	-4.5
50	1100 1110	741.250	759.3	0.9	0.9	20.8	758.9	0.4
51	1100 1101	756.875	776.6	-0.3	0.1	17.3	774.8	1.8

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27 NOV 30 '81

CS-15-CS-15--- A/D THRESHOLDS FIRST CHAND= 2, SENSOR=14>

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO- NOMINAL	LOWER	1 :1 UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
52	1100 1100	772.500	790.2	-0.0	0.0	13.6	790.7	-0.5
53	1100 1011	788.125	805.5	-0.0	0.1	15.3	806.6	-1.2
54	1100 1010	803.750	828.7	1.0	0.9	23.2	822.6	6.2
55	1100 1001	819.375	843.4	-0.0	-0.1	14.7	838.5	4.9
56	1100 1000	835.000	863.5	-1.1	-1.3	20.1	854.4	9.1
57	1100 0111	850.625	866.3	-0.[illegible]	-0.1	2.8	870.3	-4.0
58	1100 0110	866.250	888.7	1.1	-0.0	22.4	886.3	2.5
59	1100 0101	881.875	903.9	0.1	0.1	15.2	902.2	1.8
60	1100 0100	897.500	925.5	0.0	-1.7	21.6	918.1	7.4
61	1100 0011	913.125	932.5	0.4	0.4	6.9	934.0	-1.6
62	1100 0010	928.750	959.3	-0.0	-1.0	26.9	949.9	9.4
63	1100 0001	944.375	970.4	-0.8	-0.8	11.0	965.9	4.5
64	1100 0000	960.000	977.3	0.6	0.8	6.9	981.8	-4.4
65	1011 1111	975.625	994.5	-0.3	0.1	17.1	997.7	-3.2
66	1011 1110	991.250	1015.9	-1.0	-0.8	21.4	1013.6	2.2
67	1011 1101	1006.88	1032.1	0.0	-0.2	16.3	1029.6	2.6
68	1011 1100	1022.50	1042.2	-0.1	0.1	10.0	1045.5	-3.3
69	1011 1011	1038.13	1061.4	0.0	0.2	19.2	1061.4	0.0
70	1011 1010	1053.75	1085.2	-0.9	-0.9	23.7	1077.3	7.8
71	1011 1001	1069.38	1098.8	0.1	0.1	13.6	1093.2	5.5
72	1011 1000	1085.00	1109.4	1.3	-0.0	10.6	1109.2	0.2
73	1011 0111	1100.63	1121.7	0.3	0.2	12.3	1125.1	-3.4
74	1011 0110	1116.25	1143.8	0.0	1.5	22.1	1141.0	2.9
75	1011 0101	1131.88	1159.4	-0.1	-0.1	15.6	1156.9	2.4
76	1011 0100	1147.50	1175.6	-0.0	-1.1	16.3	1172.9	2.8
77	1011 0011	1163.13	1188.6	-0.4	-0.2	13.0	1188.8	-0.2
78	1011 0010	1178.75	1213.3	1.0	1.1	25.2	1204.7	9.1

ORIGINAL PAGE IS OF POOR QUALITY

HS-2[illegible] THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 397

1981 [illegible] 13:[illegible] PENALTY FULL PERFORMANCE @ CONSTANT TEMP.

[illegible] A/D THRESHOLD TEST (BAND= [illegible] SENSOR=[illegible])

HAC TEST 527

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	TOTAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
79	1011 0001	1194.38	1225.6	0.1	-0.0	11.8	1220.6	5.0
80	1011 0000	1210.00	1234.9	-0.1	-0.1	9.3	1236.6	-1.6
81	1010 1111	1225.63	1247.9	0.0	-0.3	12.9	1252.5	-4.6
82	1010 1110	1241.25	1268.2	1.0	1.3	20.3	1268.4	-0.2
83	1010 1101	1256.88	1285.2	0.0	0.2	17.0	1284.3	0.9
84	1010 1100	1272.50	1298.4	-0.1	0.1	13.1	1300.2	-1.9
85	1010 1011	1288.13	1314.5	-0.0	-0.0	16.1	1316.2	-1.7
86	1010 1010	1303.75	1337.8	0.8	-0.0	23.3	1332.1	5.7
87	1010 1001	1319.38	1352.0	-0.1	-0.2	14.2	1348.0	4.0
88	1010 1000	1335.00	1368.3	-0.0	1.4	16.3	1363.9	4.4
89	1010 0111	1350.63	1375.0	-0.3	0.3	6.6	1379.9	-4.9
90	1010 0110	1366.25	1398.1	-0.0	1.2	23.1	1395.8	2.3
91	1010 0101	1381.88	1412.2	0.2	0.3	14.2	1411.7	0.5
92	1010 0100	1397.50	1432.5	0.7	0.8	20.2	1427.6	4.3
93	1010 0011	1413.13	1441.3	0.3	0.0	8.8	1443.5	-2.3
94	1010 0010	1428.75	1467.8	-0.7	-0.6	26.5	1459.5	8.3
95	1010 0001	1444.38	1478.5	-0.1	0.0	10.7	1475.4	3.1
96	1010 0000	1460.00	1495.6	-0.1	-0.2	17.0	1491.3	4.2
97	1001 1111	1475.63	1501.1	-0.0	0.2	5.5	1507.2	-6.1
98	1001 1110	1491.25	1522.2	-0.9	-1.1	21.1	1523.2	-0.9
99	1001 1101	1506.88	1538.9	0.3	-0.2	16.7	1539.1	-0.2
100	1001 1100	1522.50	1548.4	-0.0	0.0	9.5	1555.0	-6.6
101	1001 1011	1538.13	1567.9	0.3	0.3	19.5	1570.9	-3.0
102	1001 1010	1553.75	1591.3	-0.8	-0.0	23.4	1586.9	4.5
103	1001 1001	1569.38	1605.4	0.1	0.0	14.1	1602.8	2.7
104	1001 1000	1585.00	1616.8	2.7	2.4	11.3	1618.7	-1.9

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST 527

NOV 30 '81

14.[illegible]-B 0/12 THRESHOLD TEST COMMAND= 2, SENSOR=14

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
105	1001 0111	1600.63	1628.3	0.1	0.2	11.5	1634.6	-6.4
106	1001 0110	1616.25	1649.5	1.2	1.3	21.2	1650.5	-1.0
107	1001 0101	1631.88	1666.0	-0.3	-0.0	16.5	1666.5	-0.5
108	1001 0100	1647.50	1683.0	-0.7	-0.8	17.0	1682.4	0.6
109	1001 0011	1663.13	1695.0	0.2	0.0	12.0	1698.3	-3.3
110	1001 0010	1678.75	1719.8	1.1	1.0	24.8	1714.2	5.6
111	1001 0001	1694.38	1732.2	0.0	-0.0	12.4	1730.2	2.0
112	1001 0000	1710.00	1746.1	2.8	3.0	13.9	1746.1	0.0
113	1000 1111	1725.63	1754.3	-0.1	-0.1	8.2	1762.0	-7.7
114	1000 1110	1741.25	1774.2	1.5	-0.6	19.8	1777.9	-3.8
115	1000 1101	1756.88	1791.7	0.2	0.2	17.5	1793.8	-2.2
116	1000 1100	1772.50	1804.3	-0.1	-0.0	12.6	1809.8	-5.5
117	1000 1011	1788.13	1821.1	-0.3	-0.3	16.7	1825.7	-4.6
118	1000 1010	1803.75	1844.6	0.0	-0.9	23.6	1841.6	3.0
119	1000 1001	1819.38	1858.3	0.0	0.1	13.6	1857.5	0.7
120	1000 1000	1835.00	1876.9	1.3	1.2	18.7	1873.5	3.5
121	1000 0111	1850.63	1881.3	-0.1	-0.0	4.3	1889.4	-8.1
122	1000 0110	1866.25	1903.7	-0.7	-1.1	22.4	1905.3	-1.6
123	1000 0101	1881.88	1918.5	0.2	0.0	14.8	1921.2	-2.7
124	1000 0100	1897.50	1939.5	0.8	0.8	21.0	1937.1	2.4
125	1000 0011	1913.13	1947.6	0.0	0.1	8.1	1953.1	-5.4
126	1000 0010	1928.75	1973.6	-0.9	-0.9	26.0	1969.0	4.6
127	1000 0001	1944.38	1984.8	0.1	0.1	11.2	1984.9	-0.1
128	1000 0000	1960.00	1997.7	2.1	0.0	12.9	2000.8	-3.2
129	0111 1111	1975.63	2010.1	0.3	0.4	12.4	2016.8	-6.6
130	0111 1110	1991.25	2027.8	-0.8	6.4	17.6	2032.7	-4.9

ORIGINAL PAGE IS OF POOR QUALITY

HS-2[illegible] THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 399

1981 [illegible]/30 13:19:31 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] THRESHOLD TEST (BAND- 2) SENSOR-14)

HAC TEST S27

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) NOMINAL	LEVELS RATIO- LOWER	1:1 UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
131	0111 1101	2006.88	2051.5	-0.7	-0.7	23.7	2048.6	2.9
132	0111 1100	2022.50	2059.7	0.0	0.3	8.2	2064.5	-4.8
133	0111 1011	2038.13	2077.5	0.3	0.4	17.8	2080.5	-3.0
134	0111 1010	2053.75	2102.1	0.8	0.8	24.6	2096.4	5.7
135	0111 1001	2069.38	2114.4	-0.1	0.0	12.3	2112.3	2.1
136	0111 1000	2085.00	2129.4	-0.7	0.7	15.0	2128.2	1.2
137	0111 0111	2100.63	2137.4	0.6	0.0	7.9	2144.1	-6.8
138	0111 0110	2116.25	2156.8	0.7	0.6	19.4	2160.1	-3.3
139	0111 0101	2131.88	2178.5	-0.1	0.6	21.7	2176.0	2.5
140	0111 0100	2147.50	2192.6	-1.0	1.0	14.1	2191.9	0.7
141	0111 0011	2163.13	2205.0	-0.3	-0.4	12.5	2207.8	-2.8
142	0111 0010	2178.75	2232.2	1.2	0.0	27.1	2223.8	8.4
143	0111 0001	2194.38	2241.3	-0.2	-0.1	9.1	2239.7	1.6
144	0111 0000	2210.00	2249.4	-0.6	0.0	8.1	2255.6	-6.2
145	0110 1111	2225.63	2263.8	-0.4	-0.4	14.4	2271.5	-7.7
146	0110 1110	2241.25	2287.5	0.1	-1.3	23.7	2287.4	0.1
147	0110 1101	2256.88	2303.9	0.6	0.7	16.4	2303.4	0.5
148	0110 1100	2272.50	2316.3	0.0	0.0	12.4	2319.3	-3.0
149	0110 1011	2288.13	2330.9	-0.3	0.1	14.6	2335.2	-4.3
150	0110 1010	2303.75	2356.8	-1.7	-1.7	25.9	2351.1	5.7
151	0110 1001	2319.38	2367.5	-0.1	-0.1	10.7	2367.1	0.4
152	0110 1000	2335.00	2386.7	0.9	0.9	19.2	2383.0	3.7
153	0110 0111	2350.63	2390.6	-0.0	0.4	3.9	2398.9	-3.3
154	0110 0110	2366.25	2411.0	-0.7	-0.8	20.4	2414.8	-3.8
155	0110 0101	2381.88	2431.9	-0.5	-0.6	20.9	2430.8	1.2
156	0110 0100	2397.50	2449.5	0.8	0.0	17.5	2446.7	2.8
157	0110 0011	2413.13	2457.6	0.3	0.3	8.2	2462.6	-5.0

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 400
1981/11/30 13:19:31 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
[illegible] THRESHOLD TEST (BAND= 2, SENSOR=14)

HAC TEST S27
NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
158	0110 0010	2428.75	2486.3	-0.8	-0.0	28.7	2478.5	7.8
159	0110 0001	2444.38	2494.0	0.3	0.3	7.6	2494.4	-0.5
160	0110 0000	2460.00	2511.4	-0.1	-1.9	17.4	2510.4	1.0
161	0101 1111	2475.63	2517.1	0.3	0.3	5.7	2526.3	-9.2
162	0101 1110	2491.25	2559.9	1.5	1.6	22.8	2542.2	-2.3
163	0101 1101	2506.88	2558.1	-1.0	0.0	18.2	2558.1	-0.0
164	0101 1100	2522.50	2566.7	-0.2	-0.2	8.6	2574.1	-7.4
165	0101 1011	2538.13	2584.2	0.4	0.0	17.5	2590.0	-5.8
166	0101 1010	2553.75	2608.5	0.8	0.8	24.3	2605.9	2.6
167	0101 1001	2569.38	2625.3	-0.1	0.7	16.7	2621.8	3.4
168	0101 1000	2585.00	2640.0	-0.7	-0.7	14.7	2637.7	2.2
169	0101 0111	2600.63	2644.7	-0.4	-0.4	4.7	2653.7	-9.0
170	0101 0110	2616.25	2663.2	0.9	0.0	18.5	2669.6	-6.4
171	0101 0101	2631.88	2685.0	0.7	0.7	21.8	2685.5	-0.5
172	0101 0100	2647.50	2700.3	-0.9	-0.0	15.2	2701.4	-1.2
173	0101 0011	2663.13	2711.8	-0.5	-0.4	11.5	2717.4	-5.5
174	0101 0010	2678.75	2739.4	0.0	-0.9	27.6	2733.3	6.1
175	0101 0001	2694.38	2748.2	0.0	0.1	8.8	2749.2	-1.0
176	0101 0000	2710.00	2764.8	0.0	0.1	16.6	2765.1	-0.3
177	0100 1111	2725.63	2770.7	-0.1	0.0	5.9	2781.0	-10.3
178	0100 1110	2741.25	2794.3	-1.4	-1.4	23.6	2797.0	-2.6
179	0100 1101	2756.88	2810.5	0.7	-0.0	16.2	2812.9	-2.4
180	0100 1100	2772.50	2822.6	0.3	0.1	12.1	2828.8	-6.2
181	0100 1011	2788.13	2837.3	-0.0	0.5	14.7	2844.7	-7.4
182	0100 1010	2803.75	2853.4	-0.9	-1.0	26.0	2860.7	2.7
183	0100 1001	2819.38	2874.7	-0.2	-0.1	11.4	2876.6	-1.8

ORIGINAL PAGE IS OF POOR QUALITY

HS-276 THEMATIC MAPPER MUX UNIT TEST MODEL FM1, SAM 3 PAGE 401

1981/11/30 13:19:31 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] SENSITIVE-1 9

HAC TEST S27

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (DN)	ANALOG INPUT VOLTAGE (DN) LEVELS RATIO 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
188	0100 1000	2885.00	2896.5	1.2	6.1	21.8	2892.5	4.0
189	0100 0111	2850.63	2897.8	0.4	6.4	1.3	2903.4	-10.6
190	0100 0110	2856.25	2917.8	-0.9	-0.0	19.9	2924.4	-6.6
191	0100 0101	2881.88	2939.0	0.8	-0.8	21.3	2940.3	-1.3
192	0100 0100	2907.50	2958.2	-0.1	-0.8	19.2	2956.2	2.0
193	0100 0011	2913.13	2964.8	0.3	0.4	6.6	2972.1	-7.3
194	0100 0010	2924.75	2992.4	0.8	0.8	27.5	2968.0	4.3
195	0100 0001	2944.38	3001.7	-0.1	0.0	9.4	3004.0	-2.3
196	0100 0000	2950.00	3014.0	-0.8	-0.8	12.3	3019.9	-5.9
197	0011 1111	2975.63	3026.0	0.4	-0.0	11.9	3035.8	-9.8
198	0011 1110	2991.25	3048.8	1.5	1.7	22.8	3051.7	-3.0
199	0011 1101	3006.88	3066.9	0.0	0.8	18.1	3067.7	-0.7
200	0011 1100	3022.50	3074.8	-0.2	0.1	7.8	3083.6	-8.8
201	0011 1011	3038.13	3094.0	-0.7	-0.7	19.2	3099.5	-5.5
202	0011 1010	3053.75	3118.0	0.8	0.1	24.0	3115.4	2.6
203	0011 1001	3069.38	3130.9	0.1	0.1	12.9	3131.3	-0.5
204	0011 1000	3085.00	3145.6	-0.2	0.0	14.7	3147.3	-1.7
205	0011 0111	3100.63	3154.5	-0.8	-0.8	8.9	3163.2	-8.7
206	0011 0110	3116.25	3180.2	-0.0	-1.2	25.7	3179.1	1.1
207	0011 0101	3131.88	3195.5	0.7	0.7	15.2	3195.0	0.4
208	0011 0100	3147.50	3207.8	1.1	1.2	12.3	3211.0	-3.2
209	0011 0011	3163.13	3222.2	-0.6	0.5	14.3	3226.9	-4.7
210	0011 0010	3178.75	3250.5	-1.5	-1.3	28.4	3242.8	7.7
211	0011 0001	3194.38	3258.8	-0.1	0.0	8.3	3258.7	0.1
212	0011 0000	3210.00	3268.9	0.7	0.9	10.0	3274.7	-5.8
213	0010 1111	3225.63	3281.2	-0.1	0.3	12.4	3290.6	-9.4

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27

THRESHOLD UPPER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
210	0010 1110	3241.25	3306.3	-1.9	-1.9	25.0	3306.5	-0.2
211	0010 1101	3256.88	3322.8	-0.8	-0.9	16.5	3322.4	0.4
212	0010 1100	3272.50	3333.4	0.0	0.3	10.6	3338.3	-5.0
213	0010 1011	3288.13	3348.0	0.4	0.5	15.5	3354.3	-5.4
214	0010 1010	3303.75	3375.1	-0.9	-0.0	26.2	3370.2	4.9
215	0010 1001	3319.38	3386.4	-0.3	-0.2	11.4	3386.1	0.3
216	0010 1000	3335.00	3407.0	-0.1	-1.1	20.5	3402.0	5.0
217	0010 0111	3350.63	3409.7	0.3	0.3	2.7	3418.0	-8.3
218	0010 0110	3366.25	3428.9	0.8	0.8	19.2	3433.9	-4.9
219	0010 0101	3381.88	3451.8	-0.9	-0.8	22.9	3449.8	2.0
220	0010 0100	3397.50	3469.4	-1.1	-1.1	17.6	3465.7	3.7
221	0010 0011	3413.13	3477.4	0.4	0.0	8.1	3481.6	-4.2
222	0010 0010	3428.75	3505.3	0.8	0.9	27.9	3497.6	7.7
223	0010 0001	3444.38	3514.6	-0.0	0.0	9.3	3513.5	1.1
224	0010 0000	3460.00	3534.4	-0.2	0.1	19.9	3529.4	5.0
225	0001 1111	3475.63	3538.4	-0.1	-0.2	3.9	3545.3	-7.0
226	0001 1110	3491.25	3561.0	0.8	0.9	22.6	3561.3	-0.2
227	0001 1101	3506.88	3578.4	0.8	0.9	17.4	3577.2	1.2
228	0001 1100	3522.50	3587.1	-0.3	0.0	8.7	3593.1	-6.0
229	0001 1011	3538.13	3606.2	-0.8	-0.8	19.1	3609.0	-2.8
230	0001 1010	3553.75	3630.5	0.4	-1.0	24.3	3624.9	5.6
231	0001 1001	3569.38	3643.5	0.1	4.8	13.0	3640.9	2.7
232	0001 1000	3585.00	3661.7	-7.1	0.3	18.1	3656.8	4.9
233	0001 0111	3600.63	3667.5	-0.3	-0.2	5.8	3672.7	-5.2
234	0001 0110	3616.25	3693.0	-1.3	-1.1	25.5	3688.6	4.3
235	0001 0101	3631.88	3708.2	0.8	0.0	15.2	3704.6	3.7
236	0001 0100	3647.50	3722.0	0.8	0.9	13.8	3720.5	1.5

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27

[illegible] THEMATIC MAPPER MUX UNIT TEST MODEL.. [illegible] S/N 3 PAGE 403

1981/[illegible]/30 13:19:31 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] A/D THRESHOLD TEST (LAND= 2, SENSOR=14)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO NOMINAL	LOWER	1:1 UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
232	0001 0011	3663.13	3734.5	-0.0	0.5	12.5	3736.4	-1.9
[illegible]	0001 0010	3678.75	3763.4	-1.6	1.4	28.9	3752.3	11.1
[illegible]	0001 0001	3694.38	3772.7	-0.2	0.1	9.2	3768.3	4.4
24[illegible]	0001 0000	3710.00	3792.2	-1.5	-1.3	19.5	3784.2	8.0
24[illegible]	0000 1111	3725.63	3795.8	0.1	0.3	3.6	3800.1	-4.3
24[illegible]	0000 1110	3741.25	3819.7	-1.4	0.0	23.9	3816.0	3.7
243	0000 1101	3756.88	3836.6	-1.1	-0.9	16.9	3831.9	4.7
244	0000 1100	3772.50	3847.4	0.0	0.0	10.7	3847.9	-0.5
24[illegible]	0000 1011	3788.13	3863.4	0.1	0.1	16.0	3863.8	-0.4
24[illegible]	0000 1010	3803.75	3887.7	1.7	1.9	24.3	3879.7	7.9
247	0000 1001	3819.38	3901.4	-0.4	-0.3	13.7	3895.6	5.8
248	0000 1000	3835.00	3924.8	-1.3	1.3	23.4	3911.6	13.7
249	0000 0111	3850.63	3925.3	0.3	0.0	0.6	3927.5	-2.1
250	0000 0110	3866.25	3950.0	-5.4	1.1	24.6	3943.4	6.6
251	0000 0101	[illegible]21.88	3966.1	-5.1	0.7	16.1	3959.3	6.8
252	0000 0100	3897.50	3985.6	-1.1	1.1	19.5	3975.2	10.4
253	0000 0011	3913.13	3993.5	-0.9	-0.9	7.8	3991.2	2.3
254	0000 0010	3928.75	4020.6	0.5	0.8	27.1	4007.1	13.5
255	0000 0001	3944.38	4030.6	0.1	0.1	10.0	4023.0	7.6

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27

US-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 404
1981/11/30 13:25:54 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.3.5-8 A/D THRESHOLD TEST (RAND= 2, SENSOR=15)
S U M M A R Y

CHECK 1) RMS ERROR, 2) THRESHOLD INCREMENT(+/- 0.0 <= THRH INC <= 31.2)
THE REMAINING DATA ARE FOR INFORMATION ONLY

BEST FIT STRAIGHT LINE IS: Y =15.928X -34.6MV

DEVIATION OF SLOPE FROM IDEAL IS: 1.942%
OFFSET IS:-34.6MV
COEFFICIENT OF DETERMINATION IS: R**2= .99998230
ANALOG INPUT DURING DC RESTORE IS:64.4MV

RMS ERROR = 4.599MV REQMT: RMS ERROR <=7.812MV

THRESHOLD INCREMENT MEASUREMENT

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
27.5MV	158	16.001MV	1.9MV	185	5.624MV

LOWER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
2.0MV	31	-0.123MV	-4.5MV	170	.636MV

UPPER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
1.1MV	86	-0.072MV	1.5MV	210	.466MV

TEST PASSED

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27

NOV 30 '81

BRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO- NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
THE FOLLOWING DATA ARE FOR INFORMATION ONLY								
1	1111 1111	24.375	-26.2	0.4	-0.2		-18.7	-7.6
2	1111 1110	8.750	7.3	0.5	0.6	18.9	-2.7	-4.6
3	1111 1101	6.875	12.3	0.3	0.3	19.6	13.2	-0.8
4	1111 1100	22.500	25.2	-0.2	0.0	12.9	29.1	-3.9
5	1111 1011	38.125	41.0	0.3	-0.3	15.7	45.0	-4.0
6	1111 1010	53.750	63.5	-0.0	0.5	22.5	61.0	2.5
7	1111 1001	69.375	80.3	0.2	0.3	16.9	76.9	3.4
8	1111 1000	85.000	88.0	0.0	0.6	2.7	92.8	-4.8
9	1111 0111	100.625	102.5	-0.4	0.3	14.4	108.8	-6.3
10	1111 0110	116.250	124.8	-0.7	-0.7	22.4	124.7	0.1
11	1111 0101	131.875	141.1	0.4	0.0	16.3	140.6	0.5
12	1111 0100	147.500	157.4	0.2	0.2	16.3	156.5	0.9
13	1111 0011	163.125	169.2	0.1	0.1	11.8	172.5	-3.3
14	1111 0010	178.750	194.6	-0.7	0.6	25.4	188.4	6.2
15	1111 0001	194.375	207.2	0.0	0.2	12.6	204.3	2.8
16	1111 0000	210.000	215.9	0.3	0.3	8.7	220.3	-4.4
17	1110 1111	225.625	229.9	0.3	0.2	14.0	236.2	-6.3
18	1110 1110	241.250	250.0	-0.6	0.0	20.1	252.1	-2.1
19	1110 1101	256.875	269.0	-0.6	-0.5	19.0	268.0	1.0
20	1110 1100	272.500	283.8	-0.1	-0.2	14.7	284.0	-0.2
21	1110 1011	288.125	296.9	0.3	0.2	13.1	299.9	-3.0
22	1110 1010	303.750	319.6	-0.1	0.5	22.7	315.8	3.8
23	1110 1001	319.375	336.7	-0.5	-0.4	17.1	331.8	4.9
24	1110 1000	335.000	352.8	-0.7	-0.6	16.1	347.7	5.1
25	1110 0111	350.625	358.3	0.2	-0.1	5.5	363.6	-5.3

ORIGINAL PAGE IS OF POOR QUALITY

IS 236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 406
901/11/30 13:26:07 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
[illegible] A/D THRESHOLD TEST (BAND= 2, SENSOR=15)

HAC TEST S27

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
26	1110 0110	366.250	380.9	0.5	0.4	22.5	379.5	1.3
27	1110 0101	381.875	397.1	-0.2	0.3	16.3	395.5	1.7
28	1110 0100	397.500	417.6	-0.4	-0.3	20.4	411.4	6.2
29	1110 0011	413.125	425.5	-0.1	-0.4	7.9	427.3	-1.8
30	1110 0010	428.750	450.5	0.4	0.5	25.0	443.3	7.3
31	1110 0001	444.375	463.1	2.0	0.0	12.6	459.2	3.9
32	1110 0000	460.000	475.4	-0.4	-0.0	12.3	475.1	0.3
33	1101 1111	475.625	486.9	-0.3	-0.3	11.5	491.0	-4.1
34	1101 1110	491.250	505.2	-0.1	-0.7	18.3	507.0	-1.7
35	1101 1101	506.875	525.3	0.2	0.3	20.0	522.9	2.4
36	1101 1100	522.500	537.4	-0.0	-0.0	12.1	538.8	-1.4
37	1101 1011	538.125	553.6	-0.4	-0.3	16.2	554.8	-1.1
38	1101 1010	553.750	575.6	-0.5	-0.5	21.9	570.7	4.9
39	1101 1001	569.375	592.3	0.3	-0.0	16.7	586.6	5.7
40	1101 1000	585.000	603.3	0.6	0.5	10.9	602.5	0.7
41	1101 0111	600.625	614.6	-0.0	0.2	11.4	618.5	-3.8
42	1101 0110	616.250	636.6	-0.5	-0.4	21.9	634.4	2.2
43	1101 0101	631.875	653.4	-0.1	-0.5	16.8	650.3	3.1
44	1101 0100	647.500	669.7	0.3	0.3	16.3	666.3	3.5
45	1101 0011	663.125	681.2	0.2	0.2	11.5	682.2	-1.0
46	1101 0010	678.750	705.8	-0.5	-0.0	24.5	698.1	7.7
47	1101 0001	694.375	720.8	-0.5	-0.4	15.0	714.0	6.7
48	1101 0000	710.000	734.5	0.0	-0.4	13.9	730.0	4.6
49	1100 1111	725.625	741.6	0.2	0.2	7.0	745.9	-4.3
50	1100 1110	741.250	760.2	0.6	0.4	18.6	761.8	-1.6
51	1100 1101	756.875	780.5	-0.4	-0.4	20.3	777.8	2.8

ORIGINAL PAGE IS OF POOR QUALITY

[illegible] THEMATIC MAPPER MUX UNIT TEST MODEL .. FLT. S/N 3 PAGE 407
[illegible] 13:26:07 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
[illegible]

HAC TEST 527

NOV 30 '81

ESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
52	1100 1100	772.500	794.4	-0.2	-0.3	13.9	793.7	0.7
53	1100 1011	788.125	808.0	0.2	0.0	13.6	809.6	-1.6
54	1100 1010	803.750	829.9	0.6	0.6	21.9	825.5	4.3
55	1100 1001	819.375	846.7	-0.1	0.4	16.8	841.5	5.2
56	1100 1000	835.000	865.8	0.7	-0.5	19.1	857.4	8.4
57	1100 0111	850.625	869.1	-0.1	-0.3	3.3	873.3	-4.2
58	1100 0110	866.250	890.9	0.5	0.2	21.8	889.3	1.7
59	1100 0101	881.875	906.9	0.4	0.3	16.0	905.2	1.7
60	1100 0100	897.500	927.9	-0.4	-0.1	20.9	921.1	6.7
61	1100 0011	913.125	935.3	-0.3	-0.3	7.5	937.0	-1.7
62	1100 0010	928.750	960.2	-0.0	0.6	24.8	953.0	7.2
63	1100 0001	944.375	974.1	0.3	0.4	14.0	963.9	5.3
64	1100 0000	960.000	981.5	-0.1	0.9	7.4	984.8	-3.3
65	1011 1111	975.625	997.9	-0.4	-0.4	16.4	1000.7	-2.8
66	1011 1110	991.250	1016.1	-0.7	-1.1	18.2	1016.7	-0.6
67	1011 1101	1006.88	1036.6	0.5	0.2	20.5	1032.6	4.0
68	1011 1100	1022.50	1048.9	0.3	0.1	12.3	1048.5	0.4
69	1011 1011	1038.12	1063.8	-0.1	0.2	14.9	1064.5	-0.7
70	1011 1010	1053.75	1085.9	-0.5	-0.6	22.1	1080.4	5.5
71	1011 1001	1069.38	1103.5	-0.0	-0.5	17.6	1096.3	7.1
72	1011 1000	1085.00	1109.7	0.6	0.6	6.3	1112.2	-2.5
73	1011 0111	1100.62	1124.7	0.5	0.1	15.0	1128.2	-3.4
74	1011 0110	1116.25	1146.1	-1.0	-0.3	21.4	1144.1	2.0
75	1011 0101	1131.88	1164.4	-0.4	-0.3	18.2	1160.0	4.3
76	1011 0100	1147.50	1178.5	-0.0	-0.5	14.2	1176.0	2.6
77	1011 0011	1163.13	1190.6	0.3	0.2	12.1	1191.9	-1.3
78	1011 0010	1178.75	1214.9	0.0	0.7	24.3	1207.8	7.1

ORIGINAL PAGE IS OF POOR QUALITY

-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 408

981/11/30 13:26:07 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

.5.3.5-1 A/D THRESHOLD TEST (BAND= 2, SENSOR=15)

HAC TEST 527

NV 30 '81

RESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
79	1011 0001	1194.38	1230.7	-0.5	-0.5	15.8	1223.7	7.0
80	1011 0000	1210.00	1239.5	-0.4	-0.3	8.8	1239.7	-0.1
81	1010 1111	1225.63	1251.0	0.3	-0.0	11.4	1255.6	-4.6
82	1010 1110	1241.25	1268.9	0.8	0.6	17.9	1271.5	-2.6
83	1010 1101	1256.88	1289.8	-0.1	0.4	20.9	1287.5	2.4
84	1010 1100	1272.50	1302.4	-0.2	-0.3	12.6	1303.4	-1.0
85	1010 1011	1288.13	1317.2	0.0	-0.4	14.7	1319.3	-2.2
86	1010 1010	1303.75	1338.6	1.1	1.1	21.4	1335.2	3.3
87	1010 1001	1319.38	1355.9	0.4	0.4	17.3	1351.2	4.7
88	1010 1000	1335.00	1372.2	-0.7	-0.1	16.3	1367.1	5.1
89	1010 0111	1350.63	1378.0	-0.2	-0.4	5.8	1383.0	-5.0
90	1010 0110	1366.25	1399.9	-0.1	-1.0	21.9	1399.0	1.0
91	1010 0101	1381.88	1416.7	-0.3	-0.2	16.8	1414.9	1.8
92	1010 0100	1397.50	1435.5	0.0	-0.1	18.8	1430.8	4.7
93	1010 0011	1413.13	1443.7	-0.2	-0.2	8.2	1446.7	-3.0
94	1010 0010	1428.75	1468.9	-0.5	-0.5	25.2	1462.7	6.2
95	1010 0001	1444.38	1483.0	0.4	-0.0	14.1	1478.6	4.4
96	1010 0000	1460.00	1497.4	0.4	0.4	14.3	1494.5	2.8
97	1001 1111	1475.63	1504.3	-0.1	0.5	6.9	1510.5	-6.2
98	1001 1110	1491.25	1522.0	-0.7	-1.1	17.7	1526.4	-4.4
99	1001 1101	1506.88	1543.7	-0.1	-0.6	21.7	1542.3	1.4
100	1001 1100	1522.50	1555.9	-2.5	0.0	12.2	1558.2	-2.4
101	1001 1011	1538.13	1570.6	0.1	0.1	14.7	1574.2	-3.5
102	1001 1010	1553.75	1592.2	-0.5	-0.0	21.6	1590.1	2.1
103	1001 1001	1569.38	1609.9	-0.5	-0.4	17.6	1606.0	3.8
104	1001 1000	1585.00	1620.0	0.0	-0.7	10.1	1622.0	-2.0

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27

NOV 30 '81

31/11/85 13:26:07 FINALITY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] THRESHOLD TEST (BAND= 2, SENSOR=15)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO 1:1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
105	1001 0111	1600.63	1631.5	0.3	0.2	11.5	1637.9	-6.4
106	1001 0110	1616.25	1651.1	0.1	0.7	19.6	1653.8	-2.7
107	1001 0101	1631.88	1671.2	-0.5	-0.9	20.1	1669.7	1.5
108	1001 0100	1647.50	1685.5	-0.1	-0.1	14.3	1685.7	-0.1
109	1001 0011	1663.13	1697.4	0.3	-0.0	11.8	1701.6	-4.2
110	1001 0010	1678.75	1721.0	0.6	0.6	23.7	1717.5	3.5
111	1001 0001	1694.38	1736.5	-0.0	0.5	15.4	1733.5	3.0
112	1001 0000	1710.00	1753.2	-0.3	-0.4	16.7	1749.4	3.8
113	1000 1111	1725.63	1757.8	-0.0	-0.5	4.6	1765.3	-7.5
114	1000 1110	1741.25	1774.4	1.0	0.8	16.6	1781.2	-6.9
115	1000 1101	1756.88	1796.2	0.4	0.4	21.8	1797.2	-1.0
116	1000 1100	1772.50	1808.8	-0.2	-0.1	12.6	1813.1	-4.3
117	1000 1011	1788.13	1823.9	-0.3	-0.3	15.0	1829.0	-5.2
118	1000 1010	1803.75	1845.7	0.0	-0.8	21.8	1845.0	0.7
119	1000 1001	1819.38	1862.2	0.4	0.5	16.5	1860.9	1.3
120	1000 1000	1835.00	1879.9	-0.3	0.5	17.7	1876.8	3.1
121	1000 0111	1850.63	1884.7	-0.4	-0.4	4.8	1892.7	-8.1
122	1000 0110	1866.25	1905.7	-0.5	-0.7	21.0	1908.7	-3.0
123	1000 0101	1881.88	1923.5	-0.9	-0.1	17.8	1924.6	-1.1
124	1000 0100	1897.50	1942.5	0.2	0.2	19.0	1940.5	2.0
125	1000 0011	1913.13	1950.0	-0.0	0.3	7.5	1956.5	-6.4
126	1000 0010	1928.75	1974.8	-0.6	-0.7	24.8	1972.4	2.4
127	1000 0001	1944.38	1989.8	-0.1	-0.6	14.9	1988.3	1.5
128	1000 0000	1960.00	2002.5	-1.0	0.8	12.8	2004.2	-1.7
129	0111 1111	1975.63	2014.0	0.3	0.3	11.4	2020.2	-6.2
130	0111 1110	1991.25	2036.5	-0.6	-0.0	22.5	2036.1	0.4

ORIGINAL PAGE IS OF POOR QUALITY

-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 410
81/11/30 13:26:07 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
.5.3.5-8 A/D THRESHOLD TEST (BAND= 2, SENSOR=15)

HAC TEST S27

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO- 1:1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
131	0111 1101	2006.88	2054.2	-0.6	-0.6	17.7	2052.0	2.2
132	0111 1100	2022.50	2066.3	-0.0	-0.8	12.1	2068.0	-1.6
133	0111 1011	2038.13	2079.8	0.3	0.2	13.5	2083.9	-4.1
134	0111 1010	2053.75	2103.7	0.0	0.5	23.8	2099.8	3.8
135	0111 1001	2069.38	2122.1	-0.9	-0.9	13.4	2115.7	6.4
136	0111 1000	2085.00	2126.5	-0.6	-0.6	4.4	2131.7	-5.2
137	0111 0111	2100.63	2141.1	0.1	-0.1	14.6	2147.6	-6.5
138	0111 0110	2116.25	2159.2	0.6	0.7	18.1	2163.5	-4.3
139	0111 0101	2131.88	2181.6	-0.1	0.3	22.3	2179.5	2.1
140	0111 0100	2147.50	2197.3	-0.9	-0.4	15.8	2195.4	2.0
141	0111 0011	2163.13	2207.1	-0.1	-0.3	9.8	2211.3	-4.2
142	0111 0010	2178.75	2233.3	0.6	0.6	26.2	2227.2	6.1
143	0111 0001	2194.38	2249.0	0.4	0.4	15.6	2243.2	5.8
144	0111 0000	2210.00	2257.3	-4.4	-0.1	8.3	2259.1	-1.8
145	0110 1111	2225.63	2267.7	-0.4	-0.4	10.4	2275.0	-7.3
146	0110 1110	2241.25	2289.3	-0.0	-0.5	21.5	2291.0	-1.7
147	0110 1101	2256.88	2306.7	0.4	0.0	17.4	2306.9	-0.2
148	0110 1100	2272.50	2320.2	-0.0	0.3	13.5	2322.8	-2.6
149	0110 1011	2288.13	2333.5	-0.4	-0.4	13.3	2338.7	-5.2
150	0110 1010	2303.75	2358.1	-0.7	-0.8	24.6	2354.7	3.5
151	0110 1001	2319.38	2374.8	0.4	-0.2	16.7	2370.6	4.2
152	0110 1000	2335.00	2389.4	0.6	0.6	14.6	2386.5	2.9
153	0110 0111	2350.63	2394.4	-0.1	-0.1	4.9	2402.4	-8.1
154	0110 0110	2366.25	2413.4	-0.7	-0.6	19.0	2418.4	-5.0
155	0110 0101	2381.88	2435.2	-0.0	-0.5	21.9	2434.3	0.9
156	0110 0100	2397.50	2454.2	0.5	0.5	18.9	2450.2	3.9
157	0110 0011	2413.13	2460.0	0.1	0.1	5.8	2466.2	-6.2

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27

SEQ NO	LOOP OUTPUT THRESHOLD	TOTAL VOLTAGE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO-1:1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
58	0110 0010	2428.25	2487.5	-0.5	5.0	27.5	2482.1	5.4
59	0110 0001	2454.38	2507.3	-0.5	-5.4	14.8	2496.0	4.3
60	0110 0000	2468.50	2514.1	0.4	3.2	11.7	2513.9	0.1
61	0101 1111	2475.63	2520.9	0.5	0.5	6.9	2529.9	-8.9
62	0101 1110	2491.25	2542.8	0.0	3.6	21.9	2545.8	-3.0
63	0101 1101	2506.88	2560.9	-0.6	3.7	18.1	2561.7	-0.8
64	0101 1100	2522.50	2575.7	-0.6	5.5	14.8	2577.7	-1.9
65	0101 1011	2538.13	2587.3	0.1	0.1	11.6	2593.6	-6.3
66	0101 1010	2553.75	2610.4	0.5	5.5	23.1	2609.5	0.9
67	0101 1001	2569.38	2628.9	-0.4	0.0	18.5	2625.4	3.4
68	0101 1000	2585.00	2636.6	-0.3	0.8	7.8	2641.4	-4.7
69	0101 0111	2603.63	2648.6	0.0	-3.4	11.9	2657.3	-8.7
70	0101 0110	2616.25	2671.0	-4.5	6.5	22.4	2673.2	-2.2
71	0101 0101	2631.88	2688.3	0.6	0.4	17.3	2689.2	-0.8
72	0101 0100	2647.50	2704.9	-0.5	-0.2	16.[illegible]	2705.1	-0.2
73	0101 0011	2663.13	2714.4	-0.4	-5.4	9.4	2721.0	-6.6
74	0101 0010	2678.75	2740.1	0.5	-0.0	25.7	2736.9	1.2
75	0101 0001	2694.38	2755.8	0.2	[illegible].3	15.6	2752.9	2.9
76	0101 0000	2715.00	2769.5	-0.1	4.3	13.8	2768.8	0.7
77	0100 1111	2725.63	2774.8	-0.4	-5.6	5.3	2784.7	-9.9
78	0100 1110	2741.25	2796.5	-0.3	-5.7	21.6	2800.7	-4.2
79	0100 1101	2756.88	2813.6	0.5	-0.2	17.2	2816.6	-3.0
80	0100 1100	2772.50	2827.4	0.2	0.0	13.8	2832.5	-5.1
81	0100 1011	2788.13	2840.9	-0.4	-3.1	13.5	2848.4	-7.5
82	0100 1010	2803.75	2865.1	-0.7	0.6	24.2	2864.4	0.7
83	0100 1001	2819.38	2887.1	-0.0	-0.3	17.0	2880.3	1.8

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	TOTAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
184	0100 1000	2885.00	2899.7	0.5	0.6	17.6	2896.2	3.5
185	0100 0111	2850.63	2901.6	0.3	0.2	1.9	2912.2	-10.5
186	0100 0110	2866.25	2923.9	-1.0	-0.2	22.3	2928.1	-4.2
187	0100 0101	2881.88	2942.2	-0.4	-0.6	18.3	2944.0	-1.8
188	0100 0100	2897.50	2962.5	0.7	-0.1	20.3	2959.9	2.5
189	0100 0011	2913.13	2967.5	0.3	0.4	5.0	2975.9	-8.4
190	0100 0010	2928.75	2994.1	-0.1	0.5	26.7	2991.8	2.3
191	0100 0001	2944.38	3009.3	-0.6	-0.5	15.2	3007.7	1.6
192	0100 0000	2960.00	3018.3	-0.5	-0.5	9.0	3023.7	-5.4
193	0011 1111	2975.63	3030.2	0.5	-0.1	11.9	3039.6	-9.4
194	0011 1110	2991.25	3051.9	0.6	0.6	21.7	3055.5	-3.6
195	0011 1101	3006.88	3070.5	-0.6	-0.1	18.6	3071.4	-1.0
196	0011 1100	3022.50	3081.7	-0.5	-0.6	11.3	3087.4	-5.6
197	0011 1011	3038.13	3097.4	0.0	-0.0	15.7	3103.3	-5.9
198	0011 1010	3053.75	3120.0	0.6	0.6	22.6	3119.2	0.8
199	0011 1001	3069.38	3138.6	0.5	0.5	18.5	3135.2	3.4
200	0011 1000	3085.00	3142.8	-0.7	0.0	4.2	3151.1	-8.2
201	0011 0111	3100.63	3158.7	-0.8	-0.8	15.8	3167.0	8.4
202	0011 0110	3116.25	3182.1	0.6	0.0	23.4	3182.9	-0.9
203	0011 0101	3131.88	3198.8	0.5	0.5	16.7	3198.9	-0.1
204	0011 0100	3147.50	3213.6	-0.1	0.3	14.9	3214.8	-1.2
205	0011 0011	3163.13	3224.8	-0.2	-0.3	11.2	3230.7	-5.9
206	0011 0010	3178.75	3251.8	-1.3	-1.3	26.9	3246.7	5.1
207	0011 0001	3194.38	3266.7	0.1	-0.0	14.9	3262.6	4.1
208	0011 0000	3210.00	3278.4	0.2	0.2	11.7	3278.5	-0.1
209	0010 1111	3225.63	3285.8	-0.7	-0.1	7.4	3294.4	-8.6

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1:1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
210	0010 1110	3241.25	3308.5	1.5	-1.5	22.7	3310.4	-1.8
211	0010 1101	[illegible]	[illegible]	-0.2	-0.7	17.1	3326.3	-0.7
212	0010 1100	[illegible]	3337.6	0.2	0.3	12.0	3342.2	-4.6
213	0010 1011	[illegible]	[illegible]	0.1	0.3	14.7	[illegible]	-5.8
214	0010 1010	[illegible]	3376.9	-0.6	-0.0	24.6	3374.1	2.8
215	0010 1001	[illegible]	3394.4	-0.5	-0.5	17.4	3390.0	4.4
216	0010 1000	3395.00	3408.6	0.6	0.1	14.2	3405.9	2.7
217	0010 0111	[illegible]	3413.7	0.3	0.3	5.1	[illegible]	-8.2
218	0010 0110	[illegible]	3434.8	-0.1	0.8	21.1	3437.8	-3.0
219	0010 0101	[illegible]	3454.9	0.6	-0.7	20.1	3453.7	1.2
220	0010 0100	[illegible]	3474.3	-0.6	-0.7	19.4	3469.7	4.6
221	0010 0011	[illegible]	3480.4	0.2	0.0	6.1	[illegible]	-5.2
222	0010 0010	[illegible]	3507.1	0.6	0.7	26.7	3501.5	5.6
223	0010 0001	3444.38	3523.0	-0.5	0.0	15.9	3517.4	5.6
224	0010 0000	3460.00	3537.6	-0.7	0.6	14.6	3533.4	4.2
225	0001 1111	[illegible]	[illegible]	-0.1	-0.6	4.9	3549.3	-6.8
226	0001 1110	3491.25	3563.5	0.7	0.8	20.9	3565.2	-1.8
227	0001 1101	[illegible]	[illegible]	-0.0	0.0	17.6	3581.2	-0.1
228	0001 1100	[illegible]	3596.6	-0.4	-0.0	15.5	3597.1	-0.5
229	0001 1011	[illegible]	[illegible]	-0.0	0.0	12.9	3613.0	-3.5
230	0001 1010	[illegible]	[illegible]	0.5	-0.1	22.7	3623.9	3.3
231	0001 1001	[illegible]	3650.8	0.4	0.4	18.5	3644.9	5.9
232	0001 1000	[illegible]	3658.0	-0.0	0.8	2.2	3660.8	-2.8
233	0001 0111	[illegible]	3671.6	-0.4	-0.6	12.7	3676.7	-5.1
234	0001 0110	[illegible]	3695.7	-1.4	-1.4	24.1	3692.6	3.1
235	0001 0101	[illegible]	3711.5	0.5	-0.1	15.8	3708.6	2.9
236	0001 0100	3647.50	3727.6	0.4	0.0	16.1	3724.5	3.1

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST 527

NOV 30 '81

ECHO'D INDEX	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO- 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
237	0001 0011	3663.13	3738.6	-0.5	-0.1	11.0	3740.4	-1.8
238	0001 0010	3678.75	3764.8	-0.8	-0.7	26.2	3756.4	8.5
239	0001 0001	3694.38	3780.5	-0.2	-0.4	15.7	3772.3	8.2
240	0001 0000	3710.00	3796.7	0.3	0.4	16.2	3788.2	8.5
241	0000 1111	3725.63	3799.4	0.4	0.4	2.7	3804.1	-4.7
242	0000 1110	3741.25	3822.3	-1.0	-0.1	22.9	3820.1	2.3
243	0000 1101	3756.88	3839.2	-0.0	-0.3	16.8	3836.0	3.2
244	0000 1100	3772.50	3852.1	0.2	-0.1	12.9	3851.9	0.2
245	0000 1011	3788.13	3867.1	0.3	0.3	15.0	3867.9	-0.8
246	0000 1010	3803.75	3890.8	-0.1	0.6	23.7	3883.8	7.0
247	0000 1001	3819.38	3908.6	-0.5	-0.5	17.8	3899.7	8.9
248	0000 1000	3835.00	3926.6	-0.7	-0.6	17.9	3915.6	10.9
249	0000 0111	3850.63	3929.0	0.3	-0.1	2.4	3931.6	-2.6
250	0000 0110	3866.25	3952.3	0.0	0.1	23.3	3947.5	4.7
251	0000 0101	3881.88	3969.8	-1.5	0.0	17.5	3963.4	6.4
252	0000 0100	3897.50	3990.8	-0.4	-0.4	21.0	3979.4	11.4
253	0000 0011	3913.13	3994.6	-0.1	-0.3	5.8	3995.3	1.3
254	0000 0010	3928.75	4022.6	0.4	0.5	26.0	4011.2	11.4
255	0000 0001	3944.38	4038.0	0.3	0.4	15.4	4027.1	10.9

ORIGINAL PAGE IS OF POOR QUALITY

-2 16 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 415
11/11/80 13:32:30 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
[illegible]

HAC TEST S27

[illegible] 30 '81

[illegible] 1) [illegible] ERROR, 2) THRESHOLD INCREMENT(+/- 0.0 = THRH INC <= 31.2)
REMAINING DATA ARE FOR INFORMATION ONLY

[illegible]

DEVIATION OF SLOPE FROM IDEAL IS: 1.976%
[illegible] IS:-38.8MV
COEFFICIENT OF DETERMINATION IS: R**2= .99998330
ANALOG INPUT DURING DC RESTORE IS:64.5MV

[illegible]

[illegible]

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
29.[illegible]MV	158	15.999MV	1.[illegible]MV	18[illegible]	6.056MV

[illegible]

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
1.[illegible]MV	232	-0.091MV	-6.9MV	226	.568MV

[illegible]

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
0.[illegible]MV	68	-0.026MV	-1.7MV	4	.233MV

ST [illegible]

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST 527

SHOULD MET.	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS NOMINAL	LOWER	RATIO 1:1 UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
FOLLOWING DATA ARE FOR INFORMATION ONLY								
1	1111 1111	-24.375	-31.4	-0.2	0.1		-27.9	-8.6
2	1111 1110	-8.750	-14.0	0.2	0.2	17.5	-6.9	-7.1
3	1111 1101	6.875	7.2	-0.1	0.1	21.2	9.0	-1.8
4	1111 1100	22.500	21.3	-1.8	-1.7	14.1	24.9	-3.7
5	1111 1011	38.125	36.0	-0.1	-0.0	14.7	40.9	-4.9
6	1111 1010	53.750	59.8	0.1	-0.0	23.8	56.8	3.0
7	1111 1001	69.375	74.4	-0.3	-0.0	14.6	72.7	1.6
8	1111 1000	85.000	86.3	-0.1	0.0	12.0	88.7	-2.3
9	1111 0111	100.625	97.5	-0.1	0.0	11.2	104.6	-7.1
10	1111 0110	116.250	117.7	-0.1	-0.3	20.2	120.5	-2.8
11	1111 0101	131.875	136.1	-0.1	0.0	18.4	136.5	-0.4
12	1111 0100	147.500	153.9	0.0	0.1	17.8	152.4	1.5
13	1111 0011	163.125	164.8	-0.1	-0.0	10.8	168.4	-3.6
14	1111 0010	178.750	191.3	-0.4	-0.3	26.5	184.3	7.0
15	1111 0001	194.375	202.5	-0.0	0.0	11.2	200.2	2.3
16	1111 0000	210.000	211.4	0.5	0.6	8.9	216.2	-4.7
17	1110 1111	225.625	225.4	-0.1	0.0	14.0	232.1	-6.7
18	1110 1110	241.250	243.3	-0.3	-0.2	17.9	248.0	-4.7
19	1110 1101	256.875	264.0	-0.1	-0.0	20.6	264.0	0.0
20	1110 1100	272.500	279.6	0.2	0.0	15.6	279.9	-0.3
21	1110 1011	288.125	292.6	-0.1	0.0	13.0	295.8	-3.2
22	1110 1010	303.750	316.7	-0.3	-0.0	24.1	311.8	5.0
23	1110 1001	319.375	330.9	0.0	0.0	14.1	327.7	3.2
24	1110 1000	335.000	349.2	-0.1	-0.2	18.3	343.6	5.6
25	1110 0111	350.625	354.1	-0.1	-0.1	4.9	359.6	-5.4

ORIGINAL PAGE IS OF POOR QUALITY

216 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 417
1/11/2[illegible] 13:32:43 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
[illegible] SENSOR=[illegible]

HAC TEST S27

SHOULD MODE	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
26	1110 0110	366.250	374.3	0.2	0.1	20.2	375.5	-1.2
27	1110 0101	381.875	392.6	-0.0	0.0	18.3	391.4	1.1
28	1110 0100	397.500	414.6	-0.2	-0.2	22.1	407.4	7.3
29	1110 0011	413.125	421.1	-0.1	0.1	6.5	423.3	-2.2
30	1110 0010	428.750	447.8	0.2	0.2	26.6	439.2	8.5
31	1110 0001	444.375	458.8	-0.1	-0.0	11.1	455.2	3.7
32	1110 0000	460.000	471.3	0.1	0.1	12.5	471.1	0.3
33	1101 1111	475.625	482.5	-0.1	0.0	11.1	487.0	-4.5
34	1101 1110	491.250	499.1	0.1	-0.0	16.6	503.0	-3.9
35	1101 1101	506.875	520.8	-0.1	0.1	21.7	518.9	1.9
36	1101 1100	522.500	533.5	-0.4	0.0	12.7	534.8	-1.3
37	1101 1011	538.125	549.6	-0.1	-0.0	16.0	550.8	-1.2
38	1101 1010	553.750	572.5	-0.1	-0.1	23.0	566.7	5.8
39	1101 1001	569.375	587.8	-0.1	-0.1	15.3	582.6	5.2
40	1101 1000	585.000	602.5	-0.8	-0.3	14.7	598.6	3.9
41	1101 0111	600.625	610.9	-0.1	-0.0	8.4	614.5	-3.6
42	1101 0110	616.250	630.2	-0.2	-0.2	19.3	630.4	-0.2
43	1101 0101	631.875	649.1	-0.1	-0.0	18.9	646.4	2.7
44	1101 0100	647.500	667.4	-0.0	-0.1	13.3	662.3	5.1
45	1101 0011	663.125	677.5	-0.1	0.0	10.1	678.2	-0.7
46	1101 0010	678.750	703.4	-0.4	-0.2	25.9	694.2	9.3
47	1101 0001	694.375	715.4	0.1	0.1	12.0	710.1	5.3
48	1101 0000	710.000	729.5	0.3	-0.1	14.0	726.0	3.4
49	1100 1111	725.625	738.0	-0.1	0.0	8.5	742.0	-4.0
50	1100 1110	741.250	754.9	-0.1	0.2	16.9	757.9	-3.0
51	1100 1101	756.875	776.2	-0.1	0.0	21.3	773.8	2.4

ORIGINAL PAGE IS OF POOR QUALITY

[illegible] CONDITIONS ... 2 REFERENCES

HAC TEST S27
NOV 30 '8[illegible]

SHOLD BLK	A/D OUTPUT THRESHOLD		TOTAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO NOMINAL	LOWER	1 :1 UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
2	1100	1100	772.500	792.0	-0.1	0.3	15.7	789.8	2.2
3	1100	1011	788.125	804.6	-0.1	-0.0	12.6	805.7	-1.1
4	1100	1010	803.750	827.8	0.3	0.3	23.2	821.6	6.1
5	1100	1001	819.375	842.7	0.0	0.0	14.9	837.6	5.1
6	1100	1000	835.000	862.7	0.7	0.7	20.1	853.5	9.2
7	1100	0111	850.625	865.6	0.0	0.0	2.8	869.4	-3.9
8	1100	0110	866.250	885.0	0.1	0.1	19.4	885.4	-0.4
9	1100	0101	881.875	903.7	-0.1	-0.0	18.7	901.3	2.4
0	1100	0100	897.500	926.2	-0.1	0.1	22.5	917.2	9.0
1	1100	0011	913.125	931.9	0.0	0.0	5.7	933.2	-1.2
2	1100	0010	928.750	957.9	0.2	-0.0	25.9	949.1	8.8
3	1100	0001	944.375	969.7	-0.2	-0.0	11.8	965.0	4.6
4	1100	0000	960.000	978.8	-0.0	0.5	9.1	981.0	-2.2
5	1011	1111	975.625	994.4	-0.0	0.1	15.6	996.9	-2.5
6	1011	1110	991.250	1010.8	-0.0	-0.3	16.4	1012.8	-2.0
7	1011	1101	1006.88	1032.3	0.0	-0.0	21.5	1028.8	3.5
8	1011	1100	1022.50	1043.4	0.8	0.8	11.1	1044.7	-1.3
9	1011	1011	1038.13	1060.7	-0.0	-0.0	17.3	1060.6	0.1
0	1011	1010	1053.75	1063.9	-0.3	0.2	23.1	1076.6	7.3
1	1011	1001	1069.38	1098.7	0.0	-0.0	14.8	1092.5	6.2
2	1011	1000	1085.00	1108.4	0.0	0.2	9.7	1108.4	-0.1
3	1011	0111	1100.63	1121.7	-0.1	-0.0	13.3	1124.4	-2.7
4	1011	0110	1116.25	1140.6	-0.2	-0.3	18.9	1140.3	0.3
5	1011	0101	1131.88	1159.3	0.0	0.0	18.7	1156.2	3.1
6	1011	0100	1147.50	1176.2	-0.0	-0.1	16.9	1172.2	4.0
7	1011	0011	1163.13	1187.8	-0.1	-0.0	11.6	1188.1	-0.3
8	1011	0010	1178.75	1213.7	-0.3	0.0	25.8	1204.0	9.6

ORIGINAL PAGE IS OF POOR QUALITY

36 CINEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 419
/11/30 13:32:43 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
[illegible] THRESHOLD TEST (BAND= 2, SENSOR=16)

HAC TEST 527
NOV 30 '81

HOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO NOMINAL	LOWER	1:1 UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
2	1011 0001	1194.38	1225.5	-0.0	0.0	11.9	1220.0	5.6
3	1011 0000	1210.00	1236.5	-0.1	-0.5	11.0	1235.9	0.6
1	1010 1111	1225.63	1248.1	-0.0	-0.0	11.6	1251.8	-3.7
2	1010 1110	1241.25	1264.3	0.3	0.3	16.2	1267.8	-3.5
3	1010 1101	1256.88	1285.5	0.0	-0.0	21.2	1283.7	1.8
4	1010 1100	1272.50	1300.2	-0.3	-0.3	14.7	1299.6	0.6
5	1010 1011	1288.13	1314.1	0.0	-0.5	13.9	1315.6	-1.5
6	1010 1010	1303.75	1337.1	0.3	0.2	23.0	1331.5	5.6
7	1010 1001	1319.38	1351.8	0.0	0.0	14.7	1347.4	4.4
8	1010 1000	1335.00	1370.0	-0.2	-0.2	18.1	1363.4	6.6
9	1010 0111	1350.63	1374.8	-0.0	0.0	4.9	1379.3	-4.5
10	1010 0110	1366.25	1393.8	0.2	0.0	18.9	1395.2	-1.5
11	1010 0101	1381.88	1412.5	-0.1	0.1	18.7	1411.2	1.3
12	1010 0100	1397.50	1433.6	0.1	-0.1	21.2	1427.1	6.5
13	1010 0011	1413.13	1440.8	0.0	0.1	7.2	1443.0	-2.2
14	1010 0010	1428.75	1467.1	0.0	-0.2	26.3	1459.0	8.1
15	1010 0001	1444.38	1478.6	-0.1	0.0	11.5	1474.9	3.7
16	1010 0000	1460.00	1495.6	-0.2	0.1	17.0	1490.9	4.8
17	1001 1111	1475.63	1502.1	-0.1	0.0	6.5	1506.8	-4.7
18	1001 1110	1491.25	1517.4	-0.2	-0.2	15.3	1522.7	-5.3
19	1001 1101	1506.88	1539.3	-0.0	0.1	21.9	1538.7	0.7
20	1001 1100	1522.50	1550.4	0.3	0.3	11.0	1554.6	-4.2
	1001 1011	1538.13	1567.9	-0.1	0.0	17.5	1570.5	-2.7
22	1001 1010	1553.75	1590.3	-0.3	-0.2	22.4	1586.5	3.9
23	1001 1001	1569.38	1605.6	0.0	-0.0	15.3	1602.4	3.2
24	1001 1000	1585.00	1619.0	-0.6	0.3	13.4	1618.3	0.7

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27
NOV 30 '81

TESTED NUMBER	A/D OUTPUT THRESHOLD	IDEAL VOLTS (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO-1:1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
105	1001 0111	1600.63	1628.8	-0.1	-0.1	9.7	1634.3	-5.5
106	1001 0110	1616.25	1646.9	-0.3	-0.0	18.2	1650.2	-3.3
107	1001 0101	1631.88	1666.2	-0.1	-0.0	19.3	1666.1	0.1
108	1001 0100	1647.50	1683.6	-0.1	-0.1	17.4	1682.1	1.5
109	1001 0011	1663.13	1694.7	-0.0	-0.0	11.1	1698.0	-3.3
110	1001 0010	1678.75	1719.6	0.3	0.3	24.9	1713.9	5.7
111	1001 0001	1694.38	1732.3	-0.1	-0.0	12.7	1729.9	2.5
112	1001 0000	1710.00	1750.0	-0.4	-0.5	17.7	1745.8	4.2
113	1000 1111	1725.63	1755.0	0.0	-0.0	4.9	1761.7	-6.8
114	1000 1110	1741.25	1770.4	0.3	0.4	15.4	1777.7	-7.3
115	1000 1101	1756.88	1792.2	-0.0	0.1	21.8	1793.6	-1.4
116	1000 1100	1772.50	1806.8	-0.1	-0.1	14.6	1809.5	-2.7
117	1000 1011	1788.13	1820.7	0.0	0.0	13.9	1825.5	-4.7
118	1000 1010	1803.75	1843.9	0.2	-0.2	23.1	1841.4	2.5
119	1000 1001	1819.38	1858.5	-0.1	-0.0	14.7	1857.3	1.2
120	1000 1000	1835.00	1878.3	-0.1	-0.1	19.8	1873.3	5.0
121	1000 0111	1850.63	1881.5	0.1	0.0	3.2	1889.2	-7.7
122	1000 0110	1866.25	1900.0	-0.0	0.3	18.5	1905.1	-5.1
123	1000 0101	1881.88	1919.1	-0.0	0.0	19.0	1921.1	-2.0
124	1000 0100	1897.50	1941.1	-0.2	-0.1	22.1	1937.0	4.1
125	1000 0011	1913.13	1947.4	0.0	0.0	6.2	1952.9	-5.6
126	1000 0010	1928.75	1973.3	-0.3	-0.4	25.9	1968.9	4.5
127	1000 0001	1944.38	1985.1	-0.1	0.0	11.8	1984.8	0.3
128	1000 0000	1960.00	1998.6	-0.3	-0.3	13.5	2000.7	-2.1
129	0111 1111	1975.63	2011.5	0.0	0.3	12.8	2016.7	-5.2
130	0111 1110	1991.25	2028.6	-0.3	-0.4	17.1	2032.6	-4.0

ORIGINAL PAGE IS
OF POOR QUALITY

HAC TEST S27

REV 30 '80

ESHOLD LEVEL	A/D OUTPUT THRESHOLD	GEAR VOLTS (V)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO NOMINAL	LOWER	1 :1 UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
131	0111 1101	2086.88	2048.4	-0.1	-0.1	19.8	2040.5	-0.1
132	0111 1100	2072.08	2061.3	0.2	0.0	12.9	2064.5	-3.1
133	0111 1011	2080.13	2077.2	-0.1	0.1	11.9	2080.4	-3.2
134	0111 1010	2091.25	2102.6	-0.3	-0.0	25.4	2096.3	6.2
135	0111 1001	2062.38	2114.8	-0.1	0.1	12.3	2112.3	2.6
136	0111 1000	2125.39	2129.5	-0.0	-0.0	14.7	2123.2	1.3
137	0111 0111	2133.63	2138.2	-0.1	0.0	8.7	2149.1	-5.9
138	0111 0110	2116.25	2157.7	0.5	0.4	19.4	2160.1	-2.3
139	0111 0101	2171.88	2175.6	-0.1	-0.1	17.9	2178.3	-0.4
140	0111 0100	2147.50	2193.9	-0.2	0.0	18.3	2191.9	2.0
141	0111 0011	2165.13	2204.2	-0.1	0.0	10.3	2207.9	-0.7
142	0111 0010	2175.75	2233.3	0.2	0.2	29.1	2233.8	9.5
143	0111 0001	2194.38	2241.7	0.0	0.0	8.4	2239.7	2.0
144	0111 0000	2210.00	2251.1	-0.2	0.3	9.9	2255.2	-4.6
145	0110 1111	2225.63	2261.2	0.2	0.0	14.1	2271.6	-6.4
146	0110 1110	2231.25	2281.9	0.3	0.3	15.6	2287.1	-1.7
147	0110 1101	2256.88	2301.8	0.1	0.1	19.9	2303.5	-1.7
148	0110 1100	2272.50	2318.2	-0.2	-0.0	16.4	2317.4	-1.3
149	0110 1011	2285.13	2340.6	0.0	0.0	17.4	2335.3	-4.8
150	0110 1010	2303.75	2356.8	-0.1	-0.5	26.2	2351.3	5.5
151	0110 1001	2329.38	2368.1	0.1	0.0	11.3	2367.2	0.9
152	0110 1000	2340.00	2387.6	-0.0	-0.0	19.5	2383.1	4.5
153	0110 0111	2360.63	2391.7	0.1	0.0	4.0	2399.1	-7.4
154	0110 0110	2365.25	2411.7	-0.1	-0.3	20.0	2415.0	-3.3
155	0110 0101	2381.88	2428.8	0.0	0.0	17.2	2430.9	-2.1
156	0110 0100	2397.50	2441.3	0.0	0.1	22.4	2446.9	4.4
157	0110 0011	2413.13	2457.5	-0.2	0.0	6.2	2462.8	-5.3

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 HEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 422
1981/11/30 13:37:43 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
[illegible] A/D THRESHOLD TEST (BAND= 2, SENSOR=16)

HAC TEST S27

BY 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
158	0110 0010	2428.75	2487.2	-0.2	-0.3	29.7	2478.7	8.5
159	0110 0001	2444.38	2494.9	-0.1	-0.1	7.6	2494.7	0.2
160	0110 0000	2460.00	2512.9	-0.5	-0.3	18.0	2510.6	2.3
161	0101 1111	2475.63	2519.0	0.1	0.1	6.1	2526.5	-7.6
162	0101 1110	2491.25	2535.3	-0.4	-0.0	16.3	2542.5	-7.1
163	0101 1101	2506.88	2555.8	-0.1	-0.1	20.4	2558.4	-2.7
164	0101 1100	2522.50	2568.9	-0.1	-0.4	13.1	2574.3	-5.5
165	0101 1011	2538.13	2584.7	-0.1	-0.0	15.8	2590.3	-5.6
166	0101 1010	2553.75	2608.8	0.3	0.2	24.1	2606.2	2.6
167	0101 1001	2569.38	2622.2	-0.1	-0.0	13.3	2622.1	0.0
168	0101 1000	2585.00	2640.7	-0.2	-0.1	18.5	2638.1	2.6
169	0101 0111	2600.63	2646.0	0.0	-0.1	5.3	2654.0	-8.0
170	0101 0110	2616.25	2664.6	0.2	0.2	18.6	2669.9	-5.3
171	0101 0101	2631.88	2682.7	0.0	0.1	18.1	2685.9	-3.1
172	0101 0100	2647.50	2701.7	-0.2	-0.2	19.0	2701.8	-0.1
173	0101 0011	2663.13	2711.5	0.0	0.1	9.8	2717.7	-6.2
174	0101 0010	2678.75	2739.5	0.7	0.4	28.0	2733.7	5.8
175	0101 0001	2694.38	2749.1	0.0	0.0	9.5	2749.6	-0.6
176	0101 0000	2710.00	2767.9	-0.6	-0.1	15.9	2765.5	2.4
177	0100 1111	2725.63	2772.4	-0.1	-0.1	4.4	2781.5	-9.1
178	0100 1110	2741.25	2788.9	-0.0	-0.1	16.5	2797.4	-8.5
179	0100 1101	2756.88	2812.1	0.0	-0.1	23.2	2813.4	-1.3
180	0100 1100	2772.50	2825.2	0.1	0.1	13.1	2829.3	-4.1
181	0100 1011	2788.13	2838.1	0.0	0.0	12.9	2845.2	-7.1
182	0100 1010	2803.75	2863.3	-0.3	-0.5	25.3	2861.2	2.2
183	0100 1001	2819.38	2875.7	-0.1	-0.1	12.3	2877.1	-1.4

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST 327

THRESHOLD NUMBER	AND OUTPUT THRESHOLD	DELTA VOLT (MV)	ANALOG INPUT VOLTAGE (MV) NOMINAL	LEVEL	FUEL'S RATIO - 1 : 1 DELTA	INCREASE FROM PREV THRESHOLD	FULL FLT STRAIGHT LINE POINT	DEVIATION
184	0100 1000	2835.00	2898.2	0.2	0.3	22.5	2891.0	5.2
185	0100 0111	2850.62	2899.6	-0.0	0.1	1.3	2909.0	-9.4
186	0100 0110	2846.25	2918.5	-0.3	-0.2	19.0	2924.9	-6.4
187	0100 0101	2861.88	2934.5	0.1	0.1	17.9	2940.8	-6.3
188	0100 0100	2877.50	2959.7	-0.0	0.1	23.2	2974.8	1.0
189	0100 0011	2893.13	2966.2	-0.0	0.0	5.4	2972.7	-7.5
190	0100 0010	2908.75	2994.3	-0.3	0.2	29.2	2988.6	5.7
191	0100 0001	2924.38	3002.7	-0.0	0.6	8.3	3004.6	-1.9
192	0100 0000	2940.00	3016.3	-0.6	-0.6	13.6	3020.5	-4.2
193	0011 1111	2955.63	3028.3	0.1	0.2	12.0	3036.4	-8.1
194	0011 1110	2971.25	3050.8	0.4	0.5	22.5	3052.4	-1.6
195	0011 1101	2986.88	3068.4	0.1	0.0	17.6	3068.3	0.1
196	0011 1100	3002.50	3077.8	-0.6	-0.8	9.4	3084.2	-6.4
197	0011 1011	3018.13	3094.4	0.0	0.0	16.6	3100.2	-5.7
198	0011 1010	3033.75	3118.9	0.2	0.2	24.4	3116.1	2.8
199	0011 1001	3049.38	3132.1	-0.1	0.1	13.2	3132.0	0.0
200	0011 1000	3065.00	3145.8	-0.0	-0.1	13.7	3148.0	-2.2
201	0011 0111	3080.63	3156.4	-0.2	-0.1	10.6	3163.9	-7.5
202	0011 0110	3096.25	3174.8	0.2	0.2	18.4	3179.8	-5.0
203	0011 0101	3111.88	3193.3	-0.1	0.0	18.4	3195.8	-2.5
204	0011 0100	3127.50	3210.4	-0.2	-0.1	17.1	3211.7	-1.3
205	0011 0011	3143.13	3222.3	-0.0	0.1	11.9	3227.6	-5.3
206	0011 0010	3158.75	3251.0	-0.9	-1.1	28.7	3243.6	7.4
207	0011 0001	3174.38	3259.8	0.0	0.1	8.8	3259.5	0.3
208	0011 0000	3190.00	3271.5	0.3	0.5	11.7	3275.4	-3.9
209	0010 1111	3205.63	3282.8	0.0	0.0	11.2	3291.4	-8.6

ORIGINAL PAGE IS OF POOR QUALITY

1981/11/30 13:32:43 FINALITY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] REFERENCE [illegible] DEFAULT COMMAND= 2 , SPECIFICATION=[illegible]

HAC TEST 527

NOV 30 81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO- NOMINAL	LOWER	1 :1 UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
210	0010 1110	3241.25	3300.2	-0.3	-0.2	17.4	3307.3	-7.1
211	0010 1101	3256.88	3322.9	0.0	0.0	22.7	3323.2	-0.3
212	0010 1100	3272.50	3335.2	0.4	0.6	12.3	3339.2	-3.9
213	0010 1011	3288.13	3350.0	-0.1	0.0	14.7	3355.1	-5.1
214	0010 1010	3303.75	3375.2	-0.4	-0.4	25.2	3371.0	4.2
215	0010 1001	3319.38	3387.9	-0.0	-0.0	12.7	3387.0	0.9
216	0010 1000	3335.00	3407.7	0.2	0.1	19.8	3402.9	4.8
217	0010 0111	3350.63	3411.8	0.0	-0.0	4.1	3418.8	-7.0
218	0010 0110	3366.25	3431.1	-0.4	0.0	19.3	3434.8	-3.7
219	0010 0101	3381.88	3453.2	-4.3	-0.2	22.1	3450.7	2.5
220	0010 0100	3397.50	3470.8	-0.2	0.1	17.6	3466.6	4.2
221	0010 0011	3413.13	3478.2	-0.0	-0.0	7.4	3482.6	-4.4
222	0010 0010	3428.75	3507.4	0.2	0.2	29.2	3498.5	8.9
223	0010 0001	3444.38	3516.0	-0.1	-0.1	8.5	3514.4	1.5
224	0010 0000	3460.00	3535.9	-0.3	-0.3	19.9	3530.4	5.5
225	0001 1111	3475.63	3540.1	0.1	0.0	4.2	3546.3	-6.2
226	0001 1110	3491.25	3553.2	-6.9	0.1	23.1	3562.2	0.9
227	0001 1101	3506.88	3580.5	-0.1	-0.0	17.3	3578.2	2.3
228	0001 1100	3522.50	3589.9	-0.4	-0.4	9.4	3594.1	-4.2
229	0001 1011	3538.13	3607.5	-0.1	-0.1	17.6	3610.0	-2.5
230	0001 1010	3553.75	3630.9	0.1	0.4	21.4	3626.0	4.9
231	0001 1001	3569.38	3645.0	-0.0	0.1	14.1	3641.9	3.1
232	0001 1000	3585.00	3656.1	1.9	0.0	11.1	3657.8	-1.7
233	0001 0111	3600.63	3669.3	-0.1	-0.1	13.2	3673.8	-4.4
234	0001 0110	3616.25	3687.9	-0.1	-0.3	18.6	3689.7	-1.8
235	0001 0101	3631.88	3710.3	0.0	-0.1	22.4	3705.6	4.7
236	0001 0100	3647.50	3724.7	-0.1	0.0	14.3	3721.6	3.1

ORIGINAL PAGE IS OF POOR QUALITY

IS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 425

1981/11/30 13:32:43 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] A/D THRESHOLD TEST (BAND-- 2- SENSOR-- [illegible])

HAC TEST S27

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO NOMINAL	LOWER	1:1 UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
237	0001 0011	3663.13	3736.1	-0.0	0.0	11.4	3737.5	-1.4
238	0001 0010	3678.75	3764.0	-0.3	-0.6	27.9	3753.4	10.5
239	0001 0001	[illegible]	3774.0	-0.0	0.0	10.1	3769.4	4.7
240	0001 0000	3710.00	3795.0	0.2	0.2	21.0	3785.3	9.7
241	0000 1111	[illegible]	3797.4	-0.1	0.3	2.4	3801.2	-3.8
242	0000 1110	3741.25	3814.2	-0.5	-0.4	16.8	3817.2	-3.0
243	0000 1101	[illegible]	[illegible]	-0.0	-0.3	23.8	3833.1	4.9
244	0000 1100	3772.50	3850.3	0.2	0.0	12.3	3849.0	1.2
245	0000 1011	[illegible]	3865.2	0.0	-0.1	14.9	3865.0	0.2
246	0000 1010	3803.75	3889.5	-0.5	-0.1	24.3	3880.9	8.5
247	0000 1001	[illegible]	3902.9	-0.1	-0.0	13.5	3896.8	6.1
248	0000 1000	3835.00	3925.0	-0.1	0.5	22.1	3912.8	12.3
249	0000 0111	[illegible]	3927.2	0.0	0.1	2.2	3928.7	-1.5
250	0000 0110	[illegible]	3945.8	0.2	0.3	18.5	3944.6	1.1
251	0000 0101	[illegible]	3968.2	0.5	-0.1	22.4	3960.6	7.6
252	0000 0100	[illegible]	3987.5	-0.3	-0.2	19.3	3976.5	11.0
253	0000 0011	3913.1[illegible]	3994.2	-0.0	0.1	6.7	3992.4	1.8
254	0000 0010	[illegible]	4022.8	0.1	0.2	28.6	4009.4	14.4
255	0000 0001	3944.38	4032.2	-0.1	0.1	9.4	4024.3	7.9

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST 927

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 426
1981/11/30 13:39:13 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
[illegible] A/D THRESHOLD TEST (BAND= 2, SENSOR=12) [illegible]
SUMMARY

CHECK 1) RMS ERROR, 2) THRESHOLD INCREMENT(+/- 0.0 - TURN INC <= 31.2)
THE REMAINING DATA ARE FOR INFORMATION ONLY

[illegible] STRAIGHT LINE TS: Y -15.874X -38.1MV

DEVIATION OF SLOPE FROM IDEAL IS: 1.596%
OFFSET IS:-38.1MV
COEFFICIENT OF DETERMINATION IS: R**2= .99998170
ANALOG INPUT DURING DC RESTORE IS:64.5MV

RMS ERROR -- 4.811MV REQMT: RMS ERROR <=7.812MV

THRESHOLD INCREMENT MEASUREMENT

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
30.[illegible]MV	222	15.948MV	0.6MV	249	6.308MV

[illegible] AT OUTPUT LEVELS RATIO -- 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
4.7MV	23	-0.204MV	-7.6MV	242	2.615MV

[illegible] AT OUTPUT LEVELS RATIO -- 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
[illegible]MV	11	0.045MV	-6.[illegible]MV	63	2.495MV

TEST PASSED

ORIGINAL PAGE IS OF POOR QUALITY

[illegible] PERFORMANCE [illegible]

[illegible]

MEASURED AND DESIRED DOMAIN		DESIRED (DV)	CONTROL INPUT VOLTAGE (DV) NOMINAL	LEVELS RATIO LINEAR	1:1 DIFFER	DEVIATION FROM INDV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
00 [illegible] DATA ON [illegible] INVESTIGATION [illegible]								
1	.111 1111	[illegible]	-31.8	2.9	4.1		-27.3	-9.5
2	1:11 .110	[illegible]	-11.4	-0.8	0.0	20.4	-6.4	-5.0
3	.111 1101	[illegible]	10.6	-4.[illegible]	-[illegible].8	12.0	9.5	1.1
4	1:11 1100	[illegible]	22.6	-0.[illegible]	-0.9	12.0	25.9	-2.7
5	.111 1011	[illegible]	35.7	[illegible]	[illegible]	17.0	41.2	5.5
6	.11[illegible] 1010	[illegible]	50.9	-0.1	0.7	23.2	1[illegible].1	3.8
7	.111 1001	[illegible]	77.4	4.3	[illegible]	16.5	7[illegible].0	4.4
8	.11[illegible] 1000	[illegible]	87.8	-0.7	[illegible]	10.4	[illegible]	-1.1
9	.111 0111	[illegible]	96.7	3.8	[illegible]	8.8	104.7	-8.1
10	.111 0110	[illegible]	118.6	0.6	[illegible]	21.9	12[illegible].4	-2.1
11	.1[illegible]1 0101	[illegible]	[illegible]	0.1	[illegible]	1[illegible].4	15[illegible]	-2.[illegible]
12	111 0100	[illegible]	154.8	-0.[illegible]	-0.8	20.8	1[illegible].4	2.4
13	1111 0011	[illegible]	[illegible].4	-0.[illegible]	-0.6	12.6	168.2	-[illegible].9
14	1111 0010	[illegible]	191.2	0.7	0.9	23.8	[illegible]	7.1
15	[illegible] 0001	[illegible]	261.1	4.2	4.2	9.9	200.9	1.1
16	1111 0000	210.350	213.2	-0.7	-1.1	12.1	215.9	-2.7
17	.110 111[illegible]	[illegible]	227.8	-4.3	-3.9	14.6	231.7	-1.0
18	1110 1110	[illegible]	244.2	-0.[illegible]	[illegible].3	16.4	247.6	-3.4
19	.110 1101	[illegible]	262.2	3.5	3.6	13.0	26[illegible].5	-1.2
20	110 1100	[illegible]	279.4	0.[illegible]	0.9	7.2	279.4	0.1
21	.116 1011	[illegible]	294.5	-3.7	-3.8	1[illegible].1	295.2	-0.7
22	1110 1010	[illegible]	316.2	-0.[illegible]	[illegible]	22.3	311.1	5.7
23	.1.6 1001	[illegible]	327.9	4.7	0.1	11.0	327.0	0.9
24	1116 1000	[illegible]	348.0	0.7	0.8	20.2	342.9	5.2
25	.116 0111	[illegible]	361.8	-0.6	3.9	3.7	358.7	-6.9

ORIGINAL PAGE IS OF POOR QUALITY

1981/11/30 13:39:26 FINALITY FULL PERFORMANCE @ AMBIENT TEMP.
[illegible] (CONDITION ID [illegible] (CONDITION= 2, SENSOR=12)

HAC TEST S27

NOV 30 '81

HOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
26	1110 0110	366.250	374.7	-0.8	-0.8	22.9	374.6	0.1
27	1110 0101	381.875	394.0	-5.0	-4.5	19.3	390.5	3.6
28	1110 0100	397.500	413.4	0.7	0.7	19.4	406.4	7.1
29	1110 0011	413.125	418.7	3.5	3.5	5.3	422.2	-3.5
30	1110 0010	428.750	447.4	-0.8	0.0	28.7	438.	9.3
31	1110 0001	444.375	460.1	-4.5	-4.5	12.7	454.0	6.1
32	1110 0000	460.000	470.9	-0.1	-0.7	10.8	469.9	1.0
33	1101 1111	475.625	479.7	3.7	3.8	8.8	485.7	-6.1
34	1101 1110	491.250	498.0	1.9	3.2	18.4	501.6	-3.6
35	1101 1101	506.875	521.3	-3.5	-3.8	23.2	517.5	3.8
36	1101 1100	522.500	533.1	-1.2	-1.1	11.8	533.3	-0.2
37	1101 1011	538.125	546.1	3.9	0.0	12.9	549.2	-3.1
38	1101 1010	553.750	571.1	0.6	0.7	25.0	565.1	6.0
39	1101 1001	569.375	583.2	-0.1	4.9	12.1	581.0	2.2
40	1101 1000	585.000	599.9	-1.0	-0.8	16.7	596.8	3.1
41	1101 0111	600.625	611.2	-4.2	-3.8	11.2	612.7	-1.5
42	1101 0110	616.250	628.2	0.8	0.8	17.0	628.6	-0.4
43	1101 0101	631.875	645.1	3.7	3.8	16.9	644.5	0.6
44	1101 0100	647.500	665.5	-0.7	-0.0	20.4	660.3	5.2
45	1101 0011	663.125	677.2	-3.8	-3.8	11.7	676.2	1.0
46	1101 0010	678.750	701.4	-0.1	-0.9	24.1	692.1	9.3
47	1101 0001	694.375	710.8	4.2	4.3	9.4	708.0	2.8
48	1101 0000	710.000	726.2	0.8	0.8	15.5	723.8	2.4
49	1100 1111	725.625	737.5	-3.7	-4.0	11.2	739.7	-2.2
50	1100 1110	741.250	753.1	-0.8	-0.7	15.6	755.6	-2.5
51	1100 1101	756.875	771.4	3.7	0.1	18.3	771.5	-0.0

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27

TIME SHOULD BE MSEC	12D OUTPUT (BINARY)	TIME VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO-- NOMINAL	LOWER	1 :1 UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
55	1100 1100	772.500	788.6	0.8	3.9	17.1	787.3	1.2
56	1100 1011	788.125	799.8	-0.1	3.9	11.2	803.2	-3.4
57	1100 1010	803.750	820.3	-0.[illegible]	-6.7	[illegible]	819.1	6.2
58	1100 1001	819.375	841.7	-5.0	-4.7	16.5	835.0	6.8
59	1100 1000	[illegible]	859.5	1.6	6.9	17.8	850.8	8.7
60	1100 0111	850.625	860.8	3.7	5.7	1.3	866.7	-5.9
61	1100 0110	875.250	882.6	-0.9	0.0	21.8	882.6	0.0
62	1100 0101	899.875	902.1	-4.3	-4.4	19.5	898.5	3.6
63	1100 0100	[illegible]	923.1	-0.1	-0.8	20.9	914.3	8.7
64	1100 0011	943.125	926.8	3.5	[illegible]	3.8	930.2	-3.4
65	1100 0010	962.750	943.8	0.2	0.3	27.0	944.1	7.8
66	1100 0001	[illegible]	969.7	-4.1	-4.5	15.9	967.0	7.8
67	1100 0000	979.000	976.3	-1.0	0.9	6.6	977.3	-1.0
68	1011 1111	[illegible]	988.5	4.1	5.1	12.2	993.7	-5.2
69	1011 1110	991.250	1010.3	0.3	3.8	21.8	1009.6	0.7
70	1011 1101	[illegible]	1026.1	0.6	4.6	15.8	1025.5	0.7
71	1011 1100	1027.50	1043.2	-2.1	-6.8	17.1	1041.3	1.9
72	1011 1011	1038.13	1058.5	-3.0	-[illegible]	15.3	1057.2	1.3
73	1011 1010	[illegible]	1079.7	0.7	-6.1	21.2	1073.1	6.6
74	1011 1001	[illegible]	1091.8	4.3	3.9	12.1	1085.9	2.9
75	1011 1000	[illegible]	1104.4	-0.5	0.0	12.5	1104.0	0.4
76	1011 0111	[illegible]	1119.4	-4.0	-4.3	15.0	1123.7	-4.3
77	1011 0110	[illegible]	1136.3	0.0	-3.8	17.3	1136.6	0.2
78	1011 0101	[illegible]	[illegible]	4.2	4.2	15.9	[illegible]	0.2
79	1011 0100	[illegible]	[illegible]	0.6	0.7	18.5	1148.3	2.3
80	1011 0011	1173.13	1165.0	-3.6	0.0	13.9	1164.2	0.9
81	1011 0010	1178.75	1189.2	-0.9	-0.9	24.2	1200.1	9.2

ORIGINAL PAGE IS OF POOR QUALITY

HS-23A THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 430
1981/11/30 13:39:26 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
[illegible] A/D THRESHOLD TEST (BAND= 2, SENSOR=12)

HAC TEST S27

RV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO- 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
79	1011 0001	1194.38	1217.9	4.4	0.0	8.7	1215.9	2.0
80	1011 0000	1210.00	1231.3	0.9	0.8	13.3	1231.8	-0.5
81	1010 1111	1225.63	1241.1	-0.0	4.0	9.8	1247.7	-6.6
82	1010 1110	1241.25	1260.3	-0.7	-0.8	19.1	1263.6	-3.3
83	1010 1101	1256.88	1283.5	-4.9	-4.4	23.3	1279.4	4.1
84	1010 1100	1272.50	1294.5	0.9	-0.0	11.0	1295.3	-0.8
85	1010 1011	1288.13	1307.4	3.7	3.5	12.8	1311.2	-3.8
86	1010 1010	1303.75	1333.2	-0.7	-0.2	25.8	1327.1	6.1
87	1010 1001	1319.38	1348.2	-3.8	-4.3	15.0	1342.9	5.2
88	1010 1000	1335.00	1364.8	-0.1	-1.3	16.6	1358.8	5.9
89	1010 0111	1350.63	1367.6	4.1	4.2	2.8	1374.7	-7.1
90	1010 0110	1366.25	1388.5	0.8	0.7	20.9	1390.6	-2.1
91	1010 0101	1381.88	1409.1	-3.7	0.0	20.6	1406.4	2.7
92	1010 0100	1397.50	1428.6	-0.7	-0.9	19.5	1422.3	6.3
93	1010 0011	1413.13	1433.3	3.8	0.0	4.8	1438.2	-4.8
94	1010 0010	1428.75	1460.8	0.9	0.8	27.5	1454.1	6.8
95	1010 0001	1444.38	1470.0	-0.0	4.5	9.2	1469.9	0.1
96	1010 0000	1460.00	1489.9	-0.8	-0.8	19.8	1485.8	4.1
97	1001 1111	1475.63	1497.7	-3.8	-3.5	7.8	1501.7	-4.0
98	1001 1110	1491.25	1515.0	0.8	0.0	17.2	1517.6	-2.6
99	1001 1101	1506.88	1532.0	4.0	4.2	17.0	1533.4	-1.4
100	1001 1100	1522.50	1548.5	-4.3	-0.1	16.5	1549.3	-0.8
101	1001 1011	1538.13	1563.9	-3.7	-4.0	15.4	1565.2	-1.3
102	1001 1010	1553.75	1585.0	-0.1	-0.7	21.1	1581.1	4.0
103	1001 1001	1569.38	1596.9	4.3	4.3	11.8	1596.9	-0.1
104	1001 1000	1585.00	1611.4	0.8	0.9	14.5	1612.8	-1.4

ORIGINAL PAGE IS OF POOR QUALITY

HS-2[illegible] THERMATIC MAPPER MUX UNIT TEST [illegible] PAGE 431
1981/[illegible] [illegible]:39:26 [illegible] FULL PERFORMANCE @ AMBIENT TEMP.
[illegible]

HAC TEST S27

CHECKOUT NUMBER	A/D OUTPUT (THRESHOLD)	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) NOMINAL	LEVELS RATIO LOWER	1:1 UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
10	1001 0111	1600.63	1624.5	4.0	-0.0	13.1	1628.7	4.2
106	1001 0110	1616.25	1641.3	-0.8	0.8	16.8	1644.5	-3.1
107	1001 0101	1631.[illegible]	1661.8	0.1	-3.8	20.5	1660.4	1.4
108	1001 0100	1647.[illegible]	1676.8	0.7	0.7	15.0	1676.3	0.5
109	1001 0011	1663.13	1686.3	-0.0	3.8	9.5	1697.2	-5.8
110	1001 0010	1678.75	1713.5	-0.9	-1.0	27.2	1708.0	5.5
11	1001 0001	1694.38	1727.5	-4.5	-4.0	14.0	1723.9	3.6
112	1001 0000	1710.00	1743.2	0.8	-0.1	15.7	1739.8	3.4
113	1000 1111	1725.63	1746.5	3.4	3.4	3.3	1755.7	-9.2
114	1000 1110	1731.25	1763.9	0.0	0.8	17.5	1771.5	-7.6
115	1000 1101	17[illegible].63	1788.3	-3.7	-4.1	24.4	1787.4	0.9
116	1000 1100	1[illegible].56	1800.4	0.0	0.9	12.1	1803.3	-2.9
117	1000 1011	17[illegible].13	1812.1	[illegible]	[illegible]	11.6	1819.2	7.1
118	1000 1010	1[illegible]	1836.9	0.6	0.4	24.8	1835.0	1.3
119	1000 1001	1819.38	1853.5	-4.5	0.1	16.7	1850.9	[illegible]
120	1000 1000	1[illegible].00	1871.7	0.5	-0.5	18.2	1876.8	4.7
121	1000 0111	1[illegible].63	1876.5	0.0	-3.9	4.8	1882.7	6.2
122	1000 0110	1[illegible]	1892.8	0.7	0.8	16.3	1899.5	-5.7
123	1000 0101	1[illegible]	1910.2	-0.0	[illegible]	17.4	1914.4	4.2
124	1000 0100	1[illegible]	1934.2	-0.8	0.8	23.9	1930.3	3.9
125	1000 0011	1[illegible]	1942.1	-3.8	-3.5	7.9	1946.2	-4.1
126	1000 0010	1[illegible]	1965.0	1.0	0.0	23.0	1962.0	3.0
127	1000 0001	1944.38	1975.3	4.[illegible]	[illegible]	10.3	1977.9	-2.6
128	1000 0000	1960.00	1990.2	0.0	0.3	14.8	1993.8	3.5
129	0111 1111	1975.63	2005.7	-3.9	-3.2	15.6	2009.7	-3.9
130	0111 1110	1991.25	2021.5	-0.1	-0.8	15.8	2025.5	-4.0

ORIGINAL PAGE IS OF POOR QUALITY

1981/11/30 13:39:26 FINALITY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] CONTROL= 2 SENSOR= [illegible]

HAC TEST S27

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDLE VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
131	0111 1101	2006.88	2043.6	-1.4	1.4	22.1	2041.4	2.2
132	0111 1100	2022.50	2055.2	-0.1	-0.1	11.6	2057.3	-2.1
133	0111 1011	2038.13	2071.4	-3.9	0.1	16.2	2073.2	-1.7
134	0111 1010	2053.75	2095.2	-0.3	-0.8	23.8	2089.0	6.2
135	0111 1001	2069.38	2108.5	0.0	0.9	13.2	2104.9	3.6
136	0111 1000	2085.00	2120.9	0.9	0.9	12.4	2120.8	0.1
137	0111 0111	2100.63	2128.2	4.3	4.4	7.3	2136.7	-8.5
138	0111 0110	2116.25	2150.7	-0.7	-0.8	22.5	2152.5	-1.9
139	0111 0101	2131.88	2168.9	1.6	1.9	18.2	2168.4	0.5
140	0111 0100	2147.50	2186.1	0.3	0.5	17.2	2184.3	1.8
141	0111 0011	2163.13	2193.9	4.0	4.1	7.8	2200.2	-6.3
142	0111 0010	2178.75	2223.6	-0.0	0.8	29.7	2216.0	7.6
143	0111 0001	2194.38	2238.0	-3.8	-4.2	11.4	2231.9	3.1
144	0111 0000	2210.00	2245.8	-3.4	-0.8	10.8	2247.8	-1.9
145	0110 1111	2225.63	2254.1	4.4	4.4	8.2	2263.6	-9.6
146	0110 1110	2241.25	2273.5	0.2	0.2	19.4	2279.5	-6.0
147	0110 1101	2256.88	2297.1	-1.0	0.1	23.6	2295.4	1.7
148	0110 1100	2272.50	2310.0	-0.2	0.9	12.9	2311.3	-1.3
149	0110 1011	2288.13	2324.1	-0.0	-4.0	14.1	2327.1	-3.0
150	0110 1010	2303.75	2347.1	0.6	0.8	23.0	2343.0	4.1
151	0110 1001	2319.38	2361.9	-1.0	-1.0	14.8	2358.9	3.0
152	0110 1000	2335.00	2379.7	-0.7	-0.6	17.7	2374.8	4.9
153	0110 0111	2350.63	2384.9	-4.3	-4.0	5.2	2390.6	-5.7
154	0110 0110	2366.25	2402.5	0.3	0.0	17.6	2406.5	-4.0
155	0110 0101	2381.88	2423.2	-1.8	1.4	20.7	2422.4	0.8
156	0110 0100	2397.50	2442.4	-0.0	0.8	19.2	2438.3	4.2
157	0110 0011	2413.13	2450.1	-3.4	-3.7	7.7	2454.1	-4.0

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27

ESHOLD INDEX	A/D OUTPUT LIMITS/SEQUID	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS BATTLE NOMINAL	LOWER	1 31 UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
158	0110 0010	2478.75	2477.6	-1.0	-1.0	27.5	2470.0	7.6
159	0110 0001	2481.38	2483.1	4.3	4.3	5.5	2485.9	-2.8
160	0110 0000	2500.00	2502.1	0.8	0.9	19.0	2501.8	0.3
161	0101 1111	2470.63	2511.0	-3.6	0.0	9.9	2517.6	-6.7
162	0101 1110	2491.25	2533.0	-7.2	-0.9	22.0	2533.5	-0.6
163	0101 1101	2563.88	2549.8	0.3	-1.0	16.8	2549.4	0.4
164	0101 1100	2[illegible]	2563.8	0.8	-1.0	14.0	2565.3	-1.5
165	0101 1011	2583.13	2573.0	4.5	4.0	9.2	2581.1	-8.1
166	0101 1010	2[illegible]	2600.3	-0.9	-0.0	27.2	2597.0	3.3
167	0101 1001	2[illegible]69.38	2614.0	0.8	1.6	13.7	2612.9	1.2
168	0101 1000	2[illegible]	2[illegible].2	0.3	-6.0	11.2	2[illegible]9.8	-3.5
169	0101 0111	2600.[illegible]	2634.1	3.6	3.5	8.8	2644.6	-10.5
170	0101 0110	2616.25	2654.8	-0.1	0.9	20.7	2660.5	5.7
171	0101 0101	2631.[illegible]	2677.5	-1.3	1.5	22.7	2676.4	1.1
172	0101 0100	2647.[illegible]	2693.1	-0.0	2.8	15.6	2697.3	0.8
173	0101 0011	2663.13	2699.7	3.7	-0.0	6.6	2708.1	-8.5
174	0101 0010	2678.75	2728.4	0.9	0.9	28.8	2724.0	4.4
175	0101 0001	2694.[illegible]	2740.6	-3.9	2.0	12.1	2739.9	0.7
176	0101 0000	2710.00	2757.6	-1.8	1.0	17.0	2755.8	1.9
177	0100 1111	2725.63	2763.5	-0.8	-0.7	5.9	2771.6	-8.1
178	0100 1110	2741.25	2778.5	0.3	0.8	14.9	2787.5	-9.0
179	0100 1101	2756.88	2801.4	0.0	0.9	22.9	2803.4	-2.0
180	0100 1100	[illegible]	2811.7	-0.7	-0.1	14.3	2819.2	-3.6
181	0100 1011	2788.13	2829.6	2.9	3.6	14.0	2833.1	[illegible]
182	0100 1010	[illegible]	2842.0	0.9	0.1	22.4	2851.0	1.0
183	0100 1001	2819.[illegible]	2862.8	2.8	3.9	16.8	2866.9	-4.1

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 434
1981/11/30 13:39:26 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
[illegible] A/D THRESHOLD TEST (BAND= 2, SENSOR=12)

HAC TEST S27

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) NOMINAL	LEVELS RATIO- LOWER	1 :1 UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
184	0100 1000	2835.00	2887.6	0.0	0.9	24.8	2882.7	4.9
185	0100 0111	2850.63	2890.4	-2.9	-2.9	2.8	2898.6	-8.2
186	0100 0110	2866.25	2908.5	-0.9	-0.8	18.1	2914.5	-6.0
187	0100 0101	2881.88	2928.5	1.6	-0.1	19.9	2930.4	-1.9
188	0100 0100	2897.50	2949.0	0.9	0.8	20.5	2946.2	2.7
189	0100 0011	2913.13	2956.2	4.1	0.0	7.2	2962.1	-5.0
190	0100 0010	2928.75	2982.7	-1.0	-1.0	26.5	2978.0	4.7
191	0100 0001	2944.38	2993.3	0.0	0.6	10.7	2993.9	-0.5
192	0100 0000	2960.00	3004.3	0.6	0.6	10.9	3009.7	-5.5
193	0011 1111	2975.63	3014.7	3.7	3.8	10.4	3025.6	-10.9
194	0011 1110	2991.25	3040.3	-1.1	-0.1	25.6	3041.5	-1.1
195	0011 1101	3006.88	3057.7	-0.9	1.1	17.3	3057.4	0.3
196	0011 1100	3022.50	3068.0	0.3	0.0	10.3	3073.2	-5.2
197	0011 1011	3038.13	3081.0	4.0	4.5	13.0	3089.1	-8.1
198	0011 1010	3053.75	3107.3	-0.1	0.9	26.3	3105.0	2.4
199	0011 1001	3069.38	3122.1	1.1	0.8	14.7	3120.9	1.2
200	0011 1000	3085.00	3135.6	-5.9	-1.0	13.5	3136.7	-1.1
201	0011 0111	3100.63	3142.0	3.6	0.1	6.4	3152.6	-10.6
202	0011 0110	3116.25	3163.2	0.8	0.8	21.1	3168.5	5.3
203	0011 0101	3131.88	3185.0	-5.7	1.0	21.8	3184.4	0.7
204	0011 0100	3147.50	3200.4	-0.8	-0.6	15.4	3200.2	0.2
205	0011 0011	3163.13	3212.7	-0.0	-4.0	12.2	3216.1	-3.4
206	0011 0010	3178.75	3237.5	0.8	0.9	24.8	3232.0	5.5
207	0011 0001	3194.38	3250.5	-0.9	-1.0	13.0	3247.9	2.6
208	0011 0000	3210.00	3264.4	-0.7	0.0	13.9	3263.7	0.6
209	0010 1111	3225.63	3272.8	-3.8	-3.4	8.4	3279.6	-6.8

ORIGINAL PAGE IS OF POOR QUALITY

IS-234 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 43[illegible]

[illegible] PENALTY FUEL PERFORMANCE @ AMBIENT TEMP.

[illegible] THRESHOLD [illegible] BAND - 2 - SENSOR - 12

HAC TEST S27

NOV 30 '81

RESHOLD NUMBER	A/D OUTPUT THRESHOLD	TOTAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO- 1:1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
210	0010 1110	3[illegible]41.25	3295.5	-7.6	0.9	22.7	3295.5	0.0
211	0010 1101	3[illegible]6.88	3311.0	1.6	0.9	15.5	3311.4	-0.3
212	0010 1100	3[illegible]	3323.2	0.0	0.3	12.2	3327.2	-4.0
213	0010 1011	3[illegible].13	3340.1	-4.3	-4.6	16.9	3343.1	-3.0
214	0010 1010	3[illegible]	3363.5	-0.8	-0.8	23.4	3359.0	4.5
215	0010 1001	3[illegible].38	3372.4	4.3	4.8	8.9	3374.8	2.4
216	0010 1000	3[illegible]	3394.8	0.4	0.9	22.4	3390.7	4.1
217	0010 0111	3[illegible]	3396.9	-0.1	3.8	2.1	3306.6	9.7
218	0010 0110	3[illegible]	3418.9	-0.9	-0.9	22.1	3422.5	-3.5
219	0010 0101	3[illegible]	3440.9	-0.1	-1.2	21.9	3438.3	2.5
220	0010 0100	3[illegible]	3458.2	0.7	0.9	17.3	3454.2	4.0
221	0010 0011	3[illegible].13	3463.4	4.1	3.7	5.2	3470.1	-6.7
222	0010 0010	3[illegible]	3494.1	-1.2	0.0	30.6	3486.0	8.1
223	0010 0001	3[illegible]	3504.7	0.7	-3.6	10.6	3501.8	2.8
224	0010 0000	3[illegible].00	3522.7	-0.1	-0.9	18.1	3517.7	5.0
225	0001 1111	[illegible]	3525.2	3.3	3.2	2.5	3533.6	-8.4
226	0001 1110	3[illegible]	3539.5	0.1	0.4	24.3	3549.5	0.0
227	0001 1101	[illegible]	3567.7	-4.4	-4.6	18.2	3565.3	2.4
228	0001 1100	3[illegible]	3576.5	-1.1	4.2	8.8	3581.2	-4.7
229	0001 1011	[illegible]	3591.8	4.3	0.0	15.3	3597.1	-5.3
230	0001 1010	3[illegible]	3607.7	0.3	0.9	25.9	3613.0	4.7
231	0001 1001	3[illegible]	3633.7	-1.0	0.6	16.0	3628.8	4.9
232	0001 1000	3[illegible].00	3644.8	-1.3	-1.0	11.1	3644.7	0.1
233	0001 0111	3600.63	3657.1	0.0	0.3	12.2	3660.6	-3.5
234	0001 0110	3[illegible]	3674.0	0.7	0.9	17.0	3676.5	-2.4
235	0001 0101	3[illegible].88	3695.3	1.2	1.9	21.3	3692.3	3.0
236	0001 0100	3[illegible]	3712.3	-1.3	0.5	16.9	3708.2	4.0

ORIGINAL PAGE IS OF POOR QUALITY

5-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 436

981/11/30 13:39:26 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

[illegible] THRESHOLD TEST (BAND= 2, SENSOR=12)

HAC TEST 527

RESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO NOMINAL	LOWER	1:1 UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
237	0001 0011	3663.13	3724.0	-3.8	-3.5	11.8	3724.1	-0.1
238	0001 0010	3678.75	3749.7	-0.2	-0.9	25.6	3740.0	9.7
239	0001 0001	3694.38	3758.0	3.5	3.7	8.3	3755.8	2.2
240	0001 0000	3710.00	3780.2	-0.1	1.0	22.2	3771.7	8.5
241	0000 1111	3725.63	3785.0	-3.1	-3.5	4.8	3787.6	-2.6
242	0000 1110	3741.25	3807.2	-7.6	-0.6	22.2	3803.5	3.8
243	0000 1101	3756.88	3823.2	1.0	-0.0	16.0	3819.3	3.9
244	0000 1100	3772.50	3836.0	0.9	1.0	12.7	3835.2	0.8
245	0000 1011	3788.13	3848.6	-0.2	4.3	12.6	3851.1	-2.5
246	0000 1010	3803.75	3876.4	-1.1	-1.0	27.7	3867.0	9.4
247	0000 1001	3819.38	3890.0	0.6	-3.6	13.6	3882.8	7.1
248	0000 1000	3835.00	3910.6	0.7	1.1	20.6	3898.7	11.9
249	0000 0111	3850.63	3911.2	2.8	3.0	0.6	3914.6	-3.4
250	0000 0110	3866.25	3932.1	-1.0	0.0	20.9	3930.4	1.7
251	0000 0101	3881.88	3954.3	-2.1	-5.6	22.2	3946.3	8.0
252	0000 0100	3897.50	3973.9	-0.3	0.4	19.6	3962.2	11.7
253	0000 0011	3913.13	3977.8	3.5	4.0	3.9	3978.1	-0.3
254	0000 0010	3928.75	4006.6	0.9	1.0	28.8	3993.9	12.6
255	0000 0001	3944.38	4019.0	-3.7	-3.7	12.4	4009.8	9.2

ORIGINAL PAGE IS OF POOR QUALITY

ORIGINAL PAGE IS
OF POOR QUALITY

Appendix A

Multiplexer Performance Data

A/D THRESHOLD TEST DATA
Band 3

Section 4C

HAC TEST S27

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 437
1981/11/30 13:46:05 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=1)

S U M M A R Y

CHECK 1) RMS ERROR, 2) THRESHOLD INCREMENT(+/- 0.0 <= THRH INC <= 31.2)
THE REMAINING DATA ARE FOR INFORMATION ONLY

BEST FIT STRAIGHT LINE IS: Y =15.836X -49.4MV

DEVIATION OF SLOPE FROM IDEAL IS: 1.351%
OFFSET IS:-49.4MV
COEFFICIENT OF DETERMINATION IS: R**2= .99998530
ANALOG INPUT DURING DC RESTORE IS:64.4MV

RMS ERROR = 4.464MV REQMT: RMS ERROR <=7.812MV

THRESHOLD INCREMENT MEASUREMENT

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
28.3MV	243	15.903MV	3.1MV	241	5.681MV

LOWER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
0.7MV	55	-0.056MV	-3.4MV	184	.452MV

UPPER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
2.4MV	100	-0.003MV	-1.1MV	227	.391MV

TEST PASSED

ORIGINAL PAGE IS OF POOR QUALITY

S-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 438

981/11/30 13:46:19 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

.5.3.5-B A/D THRESHOLD TEST (BAND= 3, SENSOR=1)

HAC TEST S27 NOV 30 '81

IRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRATGHT LINE POINT	DEVIATION
HE FOLLOWING DATA ARE FOR INFORMATION ONLY								
1	1111 1111	-24.375	-38.8	-1.0	-0.3		-33.5	-5.3
2	1111 1110	-8.750	-24.8	-0.4	-0.4	14.0	-17.7	-7.1
3	1111 1101	6.875	0.0	0.3	0.0	24.8	-1.9	1.9
4	1111 1100	22.500	11.9	0.3	0.5	11.9	14.0	-2.1
5	1111 1011	38.125	27.0	-0.0	0.4	15.1	29.8	-2.8
6	1111 1010	53.750	44.5	-0.5	-0.4	17.4	45.7	-1.2
7	1111 1001	69.375	64.6	-0.5	-0.5	20.1	61.5	3.1
8	1111 1000	85.000	72.5	0.3	0.3	7.9	77.3	-4.8
9	1111 0111	100.625	86.1	0.4	0.4	15.6	93.2	-5.0
10	1111 0110	116.250	104.9	-0.2	0.0	16.8	109.0	-4.1
11	1111 0101	131.875	125.5	-0.5	-0.3	20.6	124.8	0.7
12	1111 0100	147.500	143.2	-0.0	-0.4	17.6	140.7	2.5
13	1111 0011	163.125	154.1	0.4	0.4	10.9	156.5	-2.4
14	1111 0010	178.750	173.7	0.1	0.3	19.5	172.3	1.3
15	1111 0001	194.375	191.3	-0.4	-0.4	17.7	188.2	3.2
16	1111 0000	210.000	202.3	-0.4	-0.4	10.9	204.0	-1.7
17	1110 1111	225.625	215.6	0.4	0.0	13.3	219.9	-4.3
18	1110 1110	241.250	229.5	0.2	0.3	14.0	235.7	-6.2
19	1110 1101	256.875	254.8	-0.1	0.3	25.2	251.5	3.3
20	1110 1100	272.500	268.3	-0.4	-0.4	13.6	267.4	1.0
21	1110 1011	288.125	282.1	-0.4	-0.4	13.7	283.2	-1.1
22	1110 1010	303.750	298.4	0.2	0.3	16.3	299.0	-0.6
23	1110 1001	319.375	318.5	0.2	0.3	20.1	314.9	3.6
24	1110 1000	335.000	332.0	-0.4	-0.0	13.5	330.7	1.3
25	1110 0111	350.625	343.1	-0.4	-0.4	11.0	346.5	-3.5

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 439

1981/11/30 13:46:19 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=1)

HAC TEST 527

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
26	1110 0110	366.250	359.4	-0.0	-0.2	16.3	362.4	-2.9
27	1110 0101	381.875	379.6	0.3	0.4	20.1	378.2	1.3
28	1110 0100	397.500	401.2	0.3	0.1	21.6	394.0	7.2
29	1110 0011	413.125	409.0	-0.5	-0.4	7.7	409.9	-0.9
30	1110 0010	428.750	428.3	-0.4	-0.3	19.3	425.7	2.6
31	1110 0001	444.375	445.6	0.4	-0.3	17.3	441.6	4.0
32	1110 0000	460.000	449.2	0.4	0.3	3.6	457.4	-8.2
33	1101 1111	475.625	471.4	-0.1	0.3	22.1	473.2	-1.9
34	1101 1110	491.250	484.8	-0.4	-0.3	13.4	489.1	-4.3
35	1101 1101	506.875	511.0	-0.4	-0.4	26.2	504.9	6.1
36	1101 1100	522.500	520.0	0.5	0.6	9.1	520.7	-0.7
37	1101 1011	538.125	537.4	0.5	0.5	17.3	536.6	0.8
38	1101 1010	553.750	554.0	-0.3	-0.1	16.6	552.4	1.6
39	1101 1001	569.375	574.3	-0.6	-0.6	20.2	568.2	6.0
40	1101 1000	585.000	584.8	-0.0	-0.3	10.5	584.1	0.7
41	1101 0111	600.625	598.3	0.4	0.4	13.5	599.9	-1.6
42	1101 0110	616.250	613.8	0.2	0.3	15.5	615.8	-1.9
43	1101 0101	631.875	635.5	-0.4	-0.4	21.6	631.6	3.9
44	1101 0100	647.500	653.1	-0.5	-0.5	17.6	647.4	5.7
45	1101 0011	663.125	663.9	0.4	0.0	10.8	663.3	0.6
46	1101 0010	678.750	682.4	0.2	0.3	18.5	679.1	3.3
47	1101 0001	694.375	700.6	-0.1	0.3	18.3	694.9	5.7
48	1101 0000	710.000	716.7	-0.5	-0.4	16.1	710.8	5.9
49	1100 1111	725.625	725.1	-0.4	-0.4	8.4	726.6	-1.5
50	1100 1110	741.250	737.9	0.2	0.2	12.7	742.4	-4.6
51	1100 1101	756.875	763.9	0.3	0.4	26.0	758.3	5.6

ORIGINAL PAGE IS OF POOR QUALITY

.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=1)

HAC TEST 527
NOV 30 '81

ESHOLD UMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
52	1100 1100	772.500	776.3	-0.5	0.0	12.4	774.1	2.2
53	1100 1011	788.125	791.0	-0.5	-0.4	14.7	789.9	1.1
54	1100 1010	803.750	806.4	-0.0	-0.3	15.4	805.8	0.7
55	1100 1001	819.375	826.4	0.7	1.2	20.0	821.6	4.8
56	1100 1000	835.000	842.7	0.2	0.3	16.3	837.5	5.3
57	1100 0111	850.625	851.5	-0.5	-0.4	8.7	853.3	-1.8
58	1100 0110	866.250	866.7	-0.3	-0.3	15.2	869.1	-2.4
59	1100 0101	881.875	887.6	0.3	0.0	20.9	885.0	2.6
60	1100 0100	897.500	906.8	0.4	0.4	19.2	900.8	6.0
61	1100 0011	913.125	916.4	-0.1	0.3	9.5	916.6	-0.3
62	1100 0010	928.750	934.9	-0.3	-0.3	18.6	932.5	2.5
63	1100 0001	944.375	952.9	-0.3	-0.3	18.0	948.3	4.6
64	1100 0000	960.000	958.9	0.5	0.5	5.9	964.1	-5.3
65	1011 1111	975.625	979.7	0.3	0.3	20.9	980.0	-0.2
66	1011 1110	991.250	993.2	-0.3	0.0	13.4	995.8	-2.6
67	1011 1101	1006.88	1019.4	-0.3	-0.3	26.3	1011.7	7.8
68	1011 1100	1022.50	1029.9	0.0	-0.4	10.4	1027.5	2.4
69	1011 1011	1038.13	1045.2	0.4	0.3	15.3	1043.3	1.9
70	1011 1010	1053.75	1061.7	0.3	0.2	16.5	1059.2	2.5
71	1011 1001	1069.38	1083.7	-0.3	-0.3	22.0	1075.0	8.7
72	1011 1000	1085.00	1088.8	-0.3	-0.3	5.0	1090.8	-2.0
73	1011 0111	1100.63	1105.7	0.4	-0.0	16.9	1106.7	-1.0
74	1011 0110	1116.25	1121.1	0.3	0.3	15.4	1122.5	-1.4
75	1011 0101	1131.88	1142.9	0.2	0.3	21.8	1138.3	4.5
76	1011 0100	1147.50	1158.3	-0.4	-0.5	15.4	1154.2	4.1
77	1011 0011	1163.13	1171.0	-0.4	-0.3	12.7	1170.0	1.0
78	1011 0010	1178.75	1189.1	0.3	0.1	18.1	1185.8	3.3

ORIGINAL PAGE IS
OF POOR QUALITY

IS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 441

981/11/30 13:46:19 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=1)

HAC TEST 527 NOV 30 '81

IRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
79	1011 0001	1194.38	1209.2	0.2	0.3	20.1	1201.7	7.6
80	1011 0000	1210.00	1218.9	-0.4	-0.0	9.7	1217.5	1.4
81	1010 1111	1225.63	1231.6	-0.4	-0.4	12.7	1233.4	-1.7
82	1010 1110	1241.25	1244.7	0.0	-0.3	13.1	1249.2	-4.5
83	1010 1101	1256.88	1270.7	0.3	0.3	26.0	1265.0	[illegible].7
84	1010 1100	1272.50	1281.2	0.4	0.4	10.5	1280.9	0.4
85	1010 1011	1288.13	1297.2	-0.4	-0.5	15.9	1296.7	0.5
86	1010 1010	1303.75	1313.5	-0.3	-0.3	16.3	1312.5	0.9
87	1010 1001	1319.38	1334.6	0.3	0.1	21.1	1328.4	6.2
88	1010 1000	1335.00	1345.4	0.4	0.4	10.8	1344.2	1.1
89	1010 0111	1350.63	1357.0	-0.0	0.4	11.6	1360.0	-3.1
90	1010 0110	1366.25	1372.7	-0.4	-0.3	15.7	1375.9	-3.2
91	1010 0101	1381.88	1394.3	-0.3	-0.3	21.6	1391.7	2.6
92	1010 0100	1397.50	1414.0	0.5	0.5	19.7	1407.6	6.5
93	1010 0011	1413.13	1421.8	0.5	0.4	7.8	1423.4	-1.6
94	1010 0010	1428.75	1440.6	-0.2	0.0	18.7	1439.2	1.3
95	1010 0001	1444.38	1460.5	-0.3	-0.2	19.9	1455.1	5.4
96	1010 0000	1460.00	1468.2	0.0	-0.4	7.8	1470.9	-2.7
97	1001 1111	1475.63	1484.7	-0.3	-0.2	16.4	1486.7	-2.1
98	1001 1110	1491.25	1496.3	0.3	0.3	11.7	1502.6	-6.2
99	1001 1101	1506.88	1523.9	-0.4	-0.4	27.6	1518.4	5.5
100	1001 1100	1522.50	1531.2	-0.4	2.4	7.3	1534.2	-3.0
101	1001 1011	1538.13	1549.7	0.4	-0.1	18.4	1550.1	-0.4
102	1001 1010	1553.75	1564.8	0.3	0.3	15.1	1565.9	-1.2
103	1001 1001	1569.38	1587.4	-0.1	0.3	22.6	1581.7	5.6
104	1001 1000	1585.00	1594.6	-0.3	-0.3	7.2	1597.6	-3.0

ORIGINAL PAGE IS OF POOR QUALITY

S-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 442

981/11/30 13:46:19 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=1)

HAC TFST S27

RESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
105	1001 0111	1600.63	1610.1	-0.4	-0.4	15.5	1613.4	-3.3
106	1001 0110	1616 25	1624.3	0.3	0.3	14.2	1629.3	-5.0
107	1001 0101	1631.88	1646.8	0.3	0.2	22.5	1645.1	1.7
108	1001 0100	1647.50	1662.6	-0.4	0.1	15.8	1660.9	1.7
109	1001 0011	1663.13	1675.2	-0.6	-0.5	12.6	1676.8	-1.5
110	1001 0010	1678.75	1692.6	-0.0	-0.4	17.3	1692.6	-0.0
111	1001 0001	1694.38	1713.0	0.3	0.3	20.5	1708.4	4.6
112	1001 0000	1710.00	1729.5	0.5	0.5	16.4	1724.3	5.2
113	1000 1111	1725.63	1735.4	-0.3	-0.3	5.9	1740.1	-4.7
114	1000 1110	1741.25	1747.8	-0.2	-0.2	12.4	1755.9	-8.2
115	1000 1101	1756.88	1774.8	0.4	0.0	27.0	1771.8	3.0
116	1000 1100	1772.50	1784.2	0.3	0.3	9.4	1787.6	-3.4
117	1000 1011	1788.13	1800.8	0.0	0.3	16.6	1803.5	-2.7
118	1000 1010	1803.75	1816.2	-0.3	-0.3	15.4	1819.3	-3.1
119	1000 1001	1819.38	1838.7	-0.3	-0.2	22.5	1835.1	3.6
120	1000 1000	1835.00	1850.9	0.3	0.2	12.2	1851.0	-0.0
121	1000 0111	1850.63	1860.7	0.4	0.4	9.8	1866.8	-6.1
122	1000 0110	1866.25	1875.7	-0.4	-0.1	14.9	1882.6	-7.0
123	1000 0101	1881.88	1897.9	-0.3	-0.4	22.3	1898.5	-0.5
124	1000 0100	1897.50	1917.5	0.1	-0.4	19.5	1914.3	3.2
125	1000 0011	1913.13	1925.7	0.5	0.5	8.2	1930.1	-4.5
126	1000 0010	1928.75	1943.2	0.2	0.3	17.6	1946.0	-2.7
127	1000 0001	1944.38	1964.2	-0.4	-0.3	20.9	1961.8	2.4
128	1000 0000	1960.00	1980.5	-0.5	-0.5	16.3	1977.7	2.8
129	0111 1111	1975.63	1990.1	0.4	0.0	9.6	1993.5	-3.4
130	0111 1110	1991.25	2004.6	0.2	0.2	14.5	2009.3	-4.7

ORIGINAL PAGE IS OF POOR QUALITY

1981/11/30 13:46:19 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

1.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=1)

HAC TEST S27

80' 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
131	0111 1101	2006.88	2030.1	0.0	0.4	25.4	2025.2	4.9
132	0111 1100	2022.50	2044.0	-0.5	-0.4	13.9	2041.0	3.0
133	0111 1011	2038.13	2055.6	-0.4	-0.5	11.6	2056.8	-1.2
134	0111 1010	2053.75	2076.4	-2.5	0.3	20.8	2072.7	3.8
135	0111 1001	2069.38	2095.2	0.3	0.3	18.8	2088.5	6.7
136	0111 1000	2085.00	2101.2	-0.4	-0.0	6.0	2104.3	-3.1
137	0111 0111	2100.63	2116.5	-0.5	-0.4	15.3	2120.2	-3.6
138	0111 0110	2116.25	2133.0	0.0	-0.3	16.5	2136.0	-3.0
139	0111 0101	2131.88	2155.5	0.3	-0.2	22.5	2151.8	3.7
140	0111 0100	2147.50	2172.4	0.4	0.4	16.8	2167.7	4.7
141	0111 0011	2163.13	2181.1	-0.4	-0.4	8.7	2183.5	-2.4
142	0111 0010	2178.75	2201.1	-0.3	-0.4	20.0	2199.4	1.7
143	0111 0001	2194.38	2220.9	0.4	0.0	19.8	2215.2	5.7
144	0111 0000	2210.00	2230.8	0.4	0.4	9.9	2231.0	-0.2
145	0110 1111	2225.63	2241.6	0.0	0.4	10.8	2246.9	-5.3
146	0110 1110	2241.25	2256.4	-0.3	-0.3	14.8	2262.7	-6.3
147	0110 1101	2256.88	2282.1	-0.4	-0.4	25.7	2278.5	3.5
148	0110 1100	2272.50	2294.0	0.5	0.5	11.9	2294.4	-0.3
149	0110 1011	2288.13	2306.8	0.5	0.5	12.7	2310.2	-3.4
150	0110 1010	2303.75	2325.7	-0.4	0.0	18.9	2326.0	-0.3
151	0110 1001	2319.38	2346.7	-0.4	-0.3	21.0	2341.9	4.9
152	0110 1000	2335.00	2361.2	0.0	-0.5	14.5	2357.7	3.5
153	0110 0111	2350.63	2367.5	0.4	0.4	6.2	2373.6	-6.1
154	0110 0110	2366.25	2384.1	0.3	0.3	16.6	2389.4	-5.3
155	0110 0101	2381.88	2406.5	0.1	-0.1	22.4	2405.2	1.3
156	0110 0100	2397.50	2427.9	-0.5	-0.4	21.4	2421.1	6.9
157	0110 0011	2413.13	2432.0	0.4	0.1	4.1	2436.9	-4.9

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 444
1981/11/30 13:46:19 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

HAC TEST S27 NOV 30 '81

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=1)

HRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
158	0110 0010	2428.75	2452.0	0.4	0.4	20.0	2452.7	-0.7
159	0110 0001	2444.38	2472.0	-0.0	0.3	20.0	2468.6	3.4
160	0110 0000	2460.00	2478.1	-0.4	-0.4	6.1	2484.4	-6.3
161	0101 1111	2475.63	2494.8	-0.4	-0.4	16.7	2500.2	-5.4
162	0101 1110	2491.25	2508.3	0.3	-0.1	13.4	2516.1	-7.8
163	0101 1101	2506.88	2534.9	0.4	0.4	26.6	2531.9	3.0
164	0101 1100	2522.50	2544.2	-0.5	0.0	9.3	2547.7	-3.5
165	0101 1011	2538.13	2560.4	-0.5	-0.5	16.2	2563.6	-3.2
166	0101 1010	2553.75	2577.2	-0.0	-0.4	16.8	2579.4	-2.2
167	0101 1001	2569.38	2599.3	0.3	0.4	22.1	2595.3	4.1
168	0101 1000	2585.00	2607.0	0.3	0.3	7.7	2611.1	-4.0
169	0101 0111	2600.63	2620.8	-0.4	-0.0	13.8	2626.9	-6.1
170	0101 0110	2616.25	2636.6	-0.4	-0.4	15.8	2642.8	-6.1
171	0101 0101	2631.88	2659.9	0.4	0.0	23.3	2658.6	1.3
172	0101 0100	2647.50	2676.5	0.4	0.5	16.5	2674.4	2.0
173	0101 0011	2663.13	2685.3	-0.1	0.4	8.8	2690.3	-5.0
174	0101 0010	2678.75	2704.6	-0.3	-0.3	19.3	2706.1	-1.5
175	0101 0001	2694.38	2725.5	-0.4	-0.3	20.9	2721.9	3.5
176	0101 0000	2710.00	2740.0	0.5	-0.0	14.5	2737.8	2.2
177	0100 1111	2725.63	2745.9	0.4	0.4	5.9	2753.6	-7.7
178	0100 1110	2741.25	2760.0	-0.3	-0.0	14.1	2769.5	-9.5
179	0100 1101	2756.88	2786.9	-0.4	-0.4	26.9	2785.3	1.6
180	0100 1100	2772.50	2798.1	-0.1	-0.4	11.2	2801.1	-3.0
181	0100 1011	2788.13	2811.7	0.7	0.6	13.6	2817.0	-5.3
182	0100 1010	2803.75	2828.6	0.4	0.4	16.9	2832.8	-4.2
183	0100 1001	2819.38	2851.2	-0.3	0.0	22.6	2848.6	2.6

ORIGINAL PAGE IS OF POOR QUALITY

'81/11/30 13:46:19 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

.5.3.5-B A/D THRESHOLD TEST (BAND= 3, SENSOR=1)

RESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
184	0100 1000	2835.00	2868.1	-3.4	-0.4	16.9	2864.5	3.6
185	0100 0111	2850.63	2872.0	0.4	0.0	3.9	2880.3	-8.3
186	0100 0110	2866.25	2887.7	0.5	0.5	15.7	2896.1	-8.5
187	0100 0101	2881.88	2911.6	0.0	0.3	23.9	2912.0	-0.4
188	0100 0100	2897.50	2933.2	-0.5	-0.5	21.5	2927.8	5.3
189	0100 0011	2913.13	2937.3	-0.3	-0.4	4.2	2943.6	-6.3
190	0100 0010	2928.75	2956.0	0.3	-0.1	18.7	2959.5	-3.5
191	0100 0001	2944.38	2976.8	0.3	0.3	20.7	2975.3	1.4
192	0100 0000	2960.00	2983.0	-0.6	-0.0	6.3	2991.2	-8.1
193	0011 1111	2975.63	3001.0	-0.4	-0.4	17.9	3007.0	-6.0
194	0011 1110	2991.25	3015.0	-0.0	-0.3	14.1	3022.8	-7.8
195	0011 1101	3006.88	3041.5	0.3	0.4	26.4	3038.7	2.8
196	0011 1100	3022.50	3054.4	0.5	0.5	13.0	3054.5	-0.1
197	0011 1011	3038.13	3066.8	-0.6	0.1	12.4	3070.3	-3.5
198	0011 1010	3053.75	3083.7	-0.5	-0.4	16.9	3086.2	-2.4
199	0011 1001	3069.38	3106.7	0.3	0.1	23.0	3102.0	4.7
200	0011 1000	3085.00	3110.5	0.4	0.3	3.8	3117.8	-7.4
201	0011 0111	3100.63	3127.3	-0.1	0.4	16.8	3133.7	-6.3
202	0011 0110	3116.25	3143.8	-0.4	-0.3	16.5	3149.5	-5.7
203	0011 0101	3131.88	3167.9	-0.5	-0.4	24.0	3165.4	2.5
204	0011 0100	3147.50	3183.0	0.5	0.0	15.1	3181.2	1.8
205	0011 0011	3163.13	3192.6	0.3	0.4	9.6	3197.0	-4.5
206	0011 0010	3178.75	3213.7	-0.4	0.0	21.1	3212.9	0.8
207	0011 0001	3194.38	3233.6	-0.4	-0.4	19.9	3228.7	4.9
208	0011 0000	3210.00	3240.1	-0.0	-0.5	6.4	3244.5	-4.5
209	0010 1111	3225.63	3253.7	0.4	0.4	13.6	3260.4	-6.7

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27 NOV 30

S-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 446
981/11/30 13:46:19 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
.5.3.55-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=1)

HAC TEST S27

RESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
210	0010 1110	3241.25	3267.9	0.3	0.3	14.3	3276.2	-8.3
211	0010 1101	3256.88	3295.3	-0.6	0.0	27.4	3292.0	3.3
212	0010 1100	3272.50	3305.6	-0.5	-0.4	10.2	3307.9	-2.3
213	0010 1011	3288.13	3320.5	0.5	0.1	14.9	3323.7	-3.2
214	0010 1010	3303.75	3337.0	0.4	0.4	16.4	3339.5	-2.6
215	0010 1001	3319.38	3360.4	-0.3	0.3	23.4	3355.4	5.0
216	0010 1000	3335.00	3373.0	-0.5	-0.5	12.6	3371.2	1.8
217	0010 0111	3350.63	3381.3	-0.4	-0.4	8.3	3387.1	-5.8
218	0010 0110	3366.25	3397.2	0.2	-0.0	15.9	3402.9	-5.7
219	0010 0101	3381.88	3421.3	0.3	0.4	24.1	3418.7	2.6
220	0010 0100	3397.50	3440.9	-0.6	0.1	19.6	3434.6	6.3
221	0010 0011	3413.13	3446.9	-0.5	-0.5	6.0	3450.4	-3.5
222	0010 0010	3428.75	3466.3	-0.1	-0.3	19.3	3466.2	0.0
223	0010 0001	3444.38	3487.1	0.3	0.4	20.9	3482.1	5.1
224	0010 0000	3460.00	3490.6	0.4	0.4	3.4	3497.9	-7.3
225	0001 1111	3475.63	3509.8	-0.5	-0.0	19.2	3513.7	-3.9
226	0001 1110	3491.25	3523.4	-0.4	-0.4	13.6	3529.6	-6.2
227	0001 1101	3506.88	3551.0	0.3	-1.1	27.6	3545.4	5.6
228	0001 1100	3522.50	3557.7	0.4	0.4	6.7	3561.3	-3.5
229	0001 1011	3538.13	3576.8	-0.1	0.4	19.1	3577.1	-0.3
230	0001 1010	3553.75	3592.3	-0.5	-0.4	15.5	3592.9	-0.6
231	0001 1001	3569.38	3617.1	-0.5	-0.4	24.7	3608.8	8.3
232	0001 1000	3585.00	3622.2	0.4	-0.0	5.1	3624.6	-2.4
233	0001 0111	3600.63	3637.3	0.4	0.4	15.1	3640.4	-3.1
234	0001 0110	3616.25	3653.3	-0.4	0.0	16.0	3656.3	-3.0
235	0001 0101	3631.88	3678.2	-0.1	0.0	24.9	3672.1	6.1
236	0001 0100	3647.50	3693.4	-0.1	-0.4	15.2	3687.9	5.5

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST 527

81/11/30 13:46:19 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=1)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
237	0001 0011	3663.13	3703.4	0.5	0.5	9.9	3703.8	-0.4
238	0001 0010	3678.75	3723.0	0.3	0.4	19.6	3719.6	3.4
239	0001 0001	3694.38	3744.5	-0.4	-0.4	21.5	3735.4	9.0
240	0001 0000	3710.00	3761.7	-0.6	-0.5	17.3	3751.3	10.5
241	0000 1111	3725.63	3764.8	0.4	0.0	3.1	3767.1	-2.3
242	0000 1110	3741.25	3778.3	0.3	0.4	13.5	3783.0	-4.6
243	0000 1101	3756.88	3806.6	-0.1	0.5	28.3	3798.8	7.8
244	0000 1100	3772.50	3816.2	-0.6	-0.5	9.6	3814.6	1.6
245	0000 1011	3788.13	3832.9	-0.5	-0.4	16.6	3830.5	2.4
246	0000 1010	3803.75	3847.7	0.4	0.5	14.8	3846.3	1.4
247	0000 1001	3819.38	3872.5	0.2	0.3	24.7	3862.1	10.3
248	0000 1000	3835.00	3883.8	-0.4	-0.0	11.4	3878.0	5.9
249	0000 0111	3850.63	3893.6	-0.5	-0.4	9.8	3893.8	-0.2
250	0000 0110	3866.25	3909.2	-0.1	-0.4	15.5	3909.6	-0.5
251	0000 0101	3881.88	3934.3	0.3	0.5	25.2	3925.5	8.8
252	0000 0100	3897.50	3953.8	0.4	0.5	19.4	3941.3	12.4
253	0000 0011	3913.13	3960.3	-0.7	-0.7	6.5	3957.2	3.1
254	0000 0010	3928.75	3978.6	-0.5	-0.4	18.3	3973.0	5.6
255	0000 0001	3944.38	4000.4	0.2	-0.1	21.8	3988.8	11.6

ORIGINAL PAGE IS OF POOR QUALITY

1981/11/30 13:57:41 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

HAC TEST S27

1.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=2) NOV 30 '81

S U M M A R Y

HECK 1) RMS ERROR, 2) THRESHOLD INCREMENT(+/- 0.0 <= THRH INC <= 31.2)
IE REMAINING DATA ARE FOR INFORMATION ONLY

BEST FIT STRAIGHT LINE IS: Y =15.841X -41.9MV

DEVIATION OF SLOPE FROM IDEAL IS: 1.382%
OFFSET IS:-41.9MV
COEFFICIENT OF DETERMINATION IS: R**2= .99990360
ANALOG INPUT DURING DC RESTORE IS:64.5MV

RMS ERROR = 4.640MV REQMT: RMS ERROR <=7.812MV

THRESHOLD INCREMENT MEASUREMENT

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
27.9MV	243	15.912MV	1.2MV	200	6.010MV

LOWER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
0.7MV	199	-0.056MV	-2.6MV	100	.416MV

UPPER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
4.8MV	220	0.054MV	-0.8MV	15	.541MV

EST PASSED

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 449

1981/11/30 13:52:55 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=2)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
THE FOLLOWING DATA ARE FOR INFORMATION ONLY								
1	1111 1111	-24.375	-31.5	-1.8	-0.1		-26.1	-5.4
2	1111 1110	-8.750	-18.5	0.3	0.5	13.0	-10.3	-8.2
3	1111 1101	6.875	6.7	0.3	0.5	25.1	5.6	1.1
4	1111 1100	22.500	19.3	-0.3	0.0	12.6	21.4	-2.1
5	1111 1011	38.125	35.1	-0.4	-0.4	15.8	37.3	-2.2
6	1111 1010	53.750	51.0	-0.1	-0.4	16.0	53.1	-2.1
7	1111 1001	69.375	74.0	0.4	0.4	22.9	68.9	5.0
8	1111 1000	85.000	78.7	0.0	0.5	4.7	84.8	-6.1
9	1111 0111	100.625	96.1	-0.4	-0.3	17.5	100.6	-4.5
10	1111 0110	116.250	112.0	-0.5	-0.3	15.8	116.5	-4.5
11	1111 0101	131.875	134.5	0.3	0.0	22.5	132.3	2.2
12	1111 0100	147.500	150.2	0.3	0.4	15.6	148.2	2.0
13	1111 0011	163.125	162.0	-0.0	0.4	11.8	164.0	-2.0
14	1111 0010	178.750	181.1	-0.4	-0.3	19.1	179.8	1.2
15	1111 0001	194.375	201.2	-0.2	-0.8	20.1	195.7	5.5
16	1111 0000	210.000	208.0	0.4	0.4	6.8	211.5	-3.6
17	1110 1111	225.625	223.2	0.3	0.4	15.3	227.4	-4.1
18	1110 1110	241.250	236.8	-0.5	-0.0	13.6	243.2	-6.3
19	1110 1101	256.875	261.9	-0.5	-0.4	25.0	259.0	2.9
20	1110 1100	272.500	274.8	-0.0	-0.3	12.9	274.9	-0.1
21	1110 1011	288.125	289.4	0.4	0.4	14.5	290.7	-1.4
22	1110 1010	303.750	305.5	-0.0	0.4	16.1	306.6	-1.0
23	1110 1001	319.375	328.8	-0.5	-0.4	23.3	322.4	6.4
24	1110 1000	335.000	339.0	-0.4	-0.4	10.2	338.2	0.8
25	1110 0111	350.625	350.4	0.3	0.0	11.4	354.1	-3.7

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 450

1981/11/30 13:52:55 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=2)

HAC TEST 527

NOV 30 81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
26	1110 0110	366.250	366.3	0.3	0.4	15.9	369.9	-3.6
27	1110 0101	381.875	388.9	-0.1	0.4	22.6	385.8	3.1
28	1110 0100	397.500	408.6	-0.4	-0.3	19.7	401.6	7.0
29	1110 0011	413.125	416.7	-0.4	-0.3	8.1	417.4	-0.7
30	1110 0010	428.750	435.2	0.3	0.3	18.4	433.3	1.9
31	1110 0001	444.375	455.3	0.4	0.6	20.1	449.1	6.2
32	1110 0000	460.000	461.6	-0.5	0.0	6.2	465.0	-3.4
33	1101 1111	475.625	479.3	-0.4	-0.4	17.7	480.8	-1.5
34	1101 1110	491.250	491.6	-0.1	-0.4	12.3	496.7	-5.0
35	1101 1101	506.875	517.2	0.3	0.5	25.5	512.5	4.7
36	1101 1100	522.500	526.5	0.3	0.3	9.3	528.3	-1.8
37	1101 1011	538.125	545.3	-0.5	-0.4	18.8	544.2	1.2
38	1101 1010	553.750	560.4	-0.5	-0.3	15.0	560.0	0.4
39	1101 1001	569.375	584.0	0.3	0.0	23.6	575.9	8.1
40	1101 1000	585.000	590.8	0.4	0.5	6.8	591.7	-0.9
41	1101 0111	600.625	605.8	0.0	0.4	14.9	607.5	-1.8
42	1101 0110	616.250	621.0	-0.3	-0.3	15.2	623.4	-2.4
43	1101 0101	631.875	644.6	-0.4	-0.4	23.6	639.2	5.4
44	1101 0100	647.500	659.7	0.3	0.4	15.0	655.1	4.6
45	1101 0011	663.125	671.5	0.4	0.4	11.8	670.9	0.6
46	1101 0010	678.750	689.8	-0.5	0.0	18.3	686.7	3.0
47	1101 0001	694.375	711.1	-0.5	-0.4	21.3	702.6	8.5
48	1101 0000	710.000	723.7	0.0	-0.4	12.5	718.4	5.2
49	1100 1111	725.625	735.0	0.3	0.3	11.3	734.3	0.7
50	1100 1110	741.250	744.7	0.4	0.4	9.7	750.1	-5.4
51	1100 1101	756.875	771.0	-0.4	-0.4	26.3	766.0	5.1

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 451

1981/11/30 13:52:55 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=2)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
52	1100 1100	772.500	782.9	-0.5	-0.4	11.9	781.8	1.1
53	1100 1011	788.125	798.1	0.3	-0.0	15.2	797.6	0.5
54	1100 1010	803.750	813.3	0.3	0.4	15.2	813.5	-0.2
55	1100 1001	819.375	836.8	-0.1	0.4	23.5	829.3	7.4
56	1100 1000	835.000	849.8	-0.5	-0.5	13.1	845.2	4.7
57	1100 0111	850.625	858.9	-0.4	1.4	9.1	861.0	-2.1
58	1100 0110	866.250	873.4	0.3	0.4	14.5	876.8	-3.4
59	1100 0101	881.875	896.8	0.3	0.4	23.3	892.7	4.1
60	1100 0100	897.500	916.0	-0.4	0.1	19.2	908.5	7.5
61	1100 0011	913.125	924.2	-0.4	-0.3	8.2	924.4	-0.1
62	1100 0010	928.750	942.1	0.0	-0.4	17.9	940.2	1.9
63	1100 0001	944.375	962.8	0.3	0.3	20.6	956.0	6.7
64	1100 0000	960.000	974.1	0.3	0.3	11.3	971.9	2.2
65	1011 1111	975.625	987.5	-0.4	-0.4	13.4	987.7	-0.2
66	1011 1110	991.250	999.8	-0.4	-0.3	12.3	1003.6	-3.8
67	1011 1101	1006.88	1025.7	0.3	0.0	26.0	1019.4	6.3
68	1011 1100	1022.50	1037.2	0.5	0.4	11.5	1035.2	2.0
69	1011 1011	1038.13	1052.5	0.0	0.4	15.3	1051.1	1.5
70	1011 1010	1053.75	1067.9	-0.3	-0.4	15.4	1066.9	1.0
71	1011 1001	1069.38	1092.5	-0.4	-0.4	24.5	1082.8	9.7
72	1011 1000	1085.00	1094.7	0.4	0.4	2.3	1098.6	-3.9
73	1011 0111	1100.63	1112.9	0.3	0.4	18.2	1114.5	-1.5
74	1011 0110	1116.25	1128.3	-0.4	-0.1	15.3	1130.3	-2.0
75	1011 0101	1131.88	1152.3	-0.4	-0.4	24.0	1146.1	6.2
76	1011 0100	1147.50	1165.7	0.0	-0.4	13.3	1162.0	3.7
77	1011 0011	1163.13	1178.3	0.3	0.4	12.6	1177.8	0.5
78	1011 0010	1178.75	1196.1	0.4	0.4	17.8	1193.7	2.4

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST SET NOV 30 '81

1981/11/30 13:52:55 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=2)

HAC TEST 27 NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
79	1011 0001	1194.38	1218.4	-0.3	-0.3	22.3	1209.5	8.9
80	1011 0000	1210.00	1227.5	-0.4	-0.4	9.1	1225.3	2.2
81	1010 1111	1225.63	1242.7	0.3	-0.0	15.2	1241.2	1.5
82	1010 1110	1241.25	1251.2	0.4	0.4	8.5	1257.0	-5.8
83	1010 1101	1256.88	1277.6	0.0	0.4	26.4	1272.9	4.8
84	1010 1100	1272.50	1288.2	-0.4	-0.4	10.6	1288.7	-0.5
85	1010 1011	1288.13	1304.6	-0.3	-0.4	16.3	1304.5	0.0
86	1010 1010	1303.75	1319.4	0.3	0.4	14.8	1320.4	-1.0
87	1010 1001	1319.38	1343.4	0.4	0.4	24.0	1336.2	7.2
88	1010 1000	1335.00	1351.9	-0.4	-0.0	8.5	1352.1	-0.2
89	1010 0111	1350.63	1364.8	-0.3	-0.3	12.9	1367.9	-3.1
90	1010 0110	1366.25	1379.8	-0.0	-0.4	14.9	1383.7	-4.0
91	1010 0101	1381.88	1403.3	0.4	0.4	23.5	1399.6	3.7
92	1010 0100	1397.50	1420.6	0.4	0.4	17.3	1415.4	5.2
93	1010 0011	1413.13	1430.0	-0.4	-0.4	9.4	1431.3	-1.2
94	1010 0010	1428.75	1447.9	-0.3	-0.3	17.8	1447.1	0.8
95	1010 0001	1444.38	1469.2	0.3	0.0	21.4	1463.0	6.3
96	1010 0000	1460.00	1479.7	0.4	0.5	10.5	1478.8	0.9
97	1001 1111	1475.63	1495.5	-0.0	0.4	15.7	1494.6	0.8
98	1001 1110	1491.25	1503.5	-0.3	-0.3	8.1	1510.5	-6.9
99	1001 1101	1506.88	1530.6	-0.4	-0.4	27.1	1526.3	4.3
100	1001 1100	1522.50	1540.0	-2.6	0.2	9.4	1542.2	-2.1
101	1001 1011	1538.13	1557.1	0.3	0.3	17.1	1558.0	-0.9
102	1001 1010	1553.75	1571.5	-0.4	0.0	14.4	1573.8	-2.3
103	1001 1001	1569.38	1596.6	-0.5	-0.4	25.0	1589.7	6.9
104	1001 1000	1585.00	1601.4	-0.1	-0.5	4.9	1605.5	-4.1

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 453

1981/11/30 13:52:55 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=2)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
105	1001 0111	1600.63	1617.4	0.3	0.3	16.0	1621.4	-4.0
106	1001 0110	1616.25	1631.4	0.4	0.3	14.0	1637.2	-5.8
107	1001 0101	1631.88	1656.6	-0.4	-0.4	25.2	1653.0	3.6
108	1001 0100	1647.50	1669.6	-0.3	-0.3	12.9	1668.9	0.7
109	1001 0011	1663.13	1682.6	0.3	0.0	13.0	1684.7	-2.2
110	1001 0010	1678.75	1699.6	0.3	0.3	17.0	1700.6	-1.0
111	1001 0001	1694.38	1722.0	-0.1	0.4	22.4	1716.4	5.6
112	1001 0000	1710.00	1737.2	-0.4	-0.4	15.1	1732.2	4.9
113	1000 1111	1725.63	1747.1	-0.4	-0.4	9.9	1748.1	-1.0
114	1000 1110	1741.25	1754.6	0.4	0.3	7.5	1763.9	-9.3
115	1000 1101	1756.88	1781.4	0.5	0.5	26.8	1779.8	1.7
116	1000 1100	1772.50	1791.5	-0.4	0.0	10.1	1795.6	-4.1
117	1000 1011	1788.13	1808.8	-0.4	-0.4	17.3	1811.5	-2.6
118	1000 1010	1803.75	1823.1	-0.0	-0.4	14.3	1827.3	-4.2
119	1000 1001	1819.38	1847.3	0.4	0.4	24.2	1843.1	4.2
120	1000 1000	1835.00	1859.2	0.5	0.4	11.8	1859.0	0.2
121	1000 0111	1850.63	1869.0	-0.3	3.5	9.9	1874.8	-5.8
122	1000 0110	1866.25	1882.9	-0.4	-0.3	13.9	1890.7	-7.7
123	1000 0101	1881.88	1907.6	0.4	0.0	24.7	1906.5	1.1
124	1000 0100	1897.50	1924.3	0.4	0.4	16.6	1922.3	2.0
125	1000 0011	1913.13	1933.6	0.0	0.3	9.3	1938.2	-4.6
126	1000 0010	1928.75	1951.1	-0.3	-0.3	17.5	1954.0	-2.9
127	1000 0001	1944.38	1973.3	-0.3	-0.3	22.2	1969.9	3.5
128	1000 0000	1960.00	1982.5	0.5	0.5	9.2	1985.7	-3.2
129	0111 1111	1975.63	1997.6	0.4	0.4	15.1	2001.5	-3.9
130	0111 1110	1991.25	2012.0	-0.5	0.0	14.3	2017.4	-5.4

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST 527 DEC 30 81

1981/11/30 13:52:55 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-B A/D THRESHOLD TEST (BAND= 3, SENSOR=2)

HAC TEST S27 11 30 '81

HRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
131	0111 1101	2006.88	2038.4	-0.6	-0.6	26.5	2033.2	5.2
132	0111 1100	2022.50	2051.9	0.0	-0.4	13.4	2049.1	2.8
133	0111 1011	2038.13	2063.2	0.4	0.4	11.3	2064.9	-1.7
134	0111 1010	2053.75	2079.8	0.5	0.7	16.6	2080.7	-0.9
135	0111 1001	2069.38	2104.8	-0.4	-0.4	24.9	2096.6	8.2
136	0111 1000	2085.00	2107.7	-0.4	-0.7	2.9	2112.4	-4.8
137	0111 0111	2100.63	2123.5	0.4	-0.1	15.8	2128.3	-4.8
138	0111 0110	2116.25	2140.0	0.3	0.4	16.5	2144.1	-4.1
139	0111 0101	2131.88	2163.8	0.0	0.5	23.8	2160.0	3.8
140	0111 0100	2147.50	2180.6	-0.4	-0.3	16.8	2175.8	4.8
141	0111 0011	2163.13	2189.3	-0.0	-0.5	8.7	2191.6	-2.3
142	0111 0010	2178.75	2208.2	0.4	0.4	18.9	2207.5	0.7
143	0111 0001	2194.38	2228.9	0.4	0.5	20.8	2223.3	5.6
144	0111 0000	2210.00	2239.3	-0.4	0.0	10.3	2239.2	0.1
145	0110 1111	2225.63	2249.9	-0.4	-0.3	10.6	2255.0	-5.1
146	0110 1110	2241.25	2263.8	-0.1	-0.5	13.9	2270.8	-7.1
147	0110 1101	2256.88	2289.5	0.5	0.5	25.7	2286.7	2.8
148	0110 1100	2272.50	2301.0	-0.0	0.4	11.5	2302.5	-1.6
149	0110 1011	2288.13	2315.3	-0.4	-0.4	14.3	2318.4	-3.1
150	0110 1010	2303.75	2332.0	-0.5	-0.4	16.7	2334.2	-2.2
151	0110 1001	2319.38	2355.9	0.3	-0.0	23.9	2350.0	5.8
152	0110 1000	2335.00	2363.8	0.3	0.4	7.9	2365.9	-2.1
153	0110 0111	2350.63	2375.1	-0.0	0.4	11.3	2381.7	-6.6
154	01 J 0110	2366.25	2391.9	-0.3	-0.3	16.8	2397.6	-5.7
155	0110 0101	2381.88	2415.7	-0.0	-0.4	23.8	2413.4	2.3
156	0110 0100	2397.50	2434.5	0.4	0.4	18.7	2429.2	5.2
157	0110 0011	2413.13	2440.4	0.4	0.4	5.9	2445.1	-4.7

ORIGINAL PAGE IS OF POOR QUALITY

1981/11/30 13:52:55 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=2)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
158	0110 0010	2428.75	2460.2	-0.5	0.0	19.8	2460.9	-0.7
159	0110 0001	2444.38	2481.8	-0.4	-0.4	21.6	2476.8	5.1
160	0110 0000	2460.00	2488.0	-0.1	-0.6	6.2	2492.6	-4.6
161	0101 1111	2475.63	2502.9	0.4	0.5	14.9	2508.5	-5.5
162	0101 1110	2491.25	2515.6	-0.1	0.3	12.7	2524.3	-8.7
163	0101 1101	2506.88	2542.7	-0.5	-0.5	27.1	2540.1	2.6
164	0101 1100	25_2.50	2556.9	-0.5	-0.4	14.1	2556.0	0.9
165	0101 1011	2538.13	2567.9	0.4	-0.0	11.1	2571.8	-3.9
166	0101 1010	2553.75	2584.1	0.3	0.3	16.2	2587.7	-3.5
167	0101 1001	2569.38	2608.9	0.0	0.4	24.8	2603.5	5.4
168	0101 1000	2585.00	2614.3	-0.5	-0.4	5.4	2619.3	-5.0
169	0101 0111	2600.63	2628.6	-0.4	-0.4	14.3	2635.2	-6.5
170	0101 0110	2616.25	2643.8	0.4	0.4	15.2	2651.0	-7.2
171	0101 0101	2631.88	2669.1	0.5	0.5	25.3	2666.9	2.2
172	0101 0100	2647.50	2684.8	-0.4	0.1	15.7	2682.7	2.1
173	0101 0011	2663.13	2694.1	-0.5	-0.5	9.2	2698.5	-4.5
174	0101 0010	2678.75	2712.5	-0.1	-0.4	18.5	2714.4	-1.8
175	0101 0001	2694.38	2734.5	0.5	0.5	22.0	2730.2	4.3
176	0101 0000	2710.00	2747.5	0.4	0.4	13.0	2746.1	1.4
177	0100 1111	2725.63	2755.1	-0.4	-0.4	7.6	2761.9	-6.8
178	0100 1110	2741.25	2767.7	-0.5	-0.4	12.6	2777.7	-10.0
179	0100 1101	2756.88	2793.9	0.4	0.0	26.2	2793.6	0.3
180	0100 1100	2772.50	2804.9	0.4	0.4	11.0	2809.4	-4.6
181	0100 1011	2788.13	2819.7	-0.0	0.4	14.8	2825.3	-5.5
182	0100 1010	2803.75	2835.9	-0.4	-0.4	16.2	2841.1	-5.2
183	0100 1001	2819.38	2860.9	-0.4	0.6	25.0	2857.0	4.0

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 456
1981/11/30 13:52:55 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

HAC TEST 327

NOV 30 '81

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=2)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
184	0100 1000	2835.00	2871.5	0.6	0.6	10.6	2872.8	-1.3
185	0100 0111	2850.63	2880.1	0.4	0.4	8.6	2888.6	-8.5
186	0100 0110	2866.25	2896.0	-0.5	-0.1	15.9	2904.5	-8.4
187	0100 0101	2881.88	2921.3	-0.5	-0.4	25.3	2920.3	1.0
188	0100 0100	2897.50	2935.4	0.0	-0.4	14.1	2936.2	-0.7
189	0100 0011	2913.13	2945.4	0.4	0.5	10.0	2952.0	-6.6
190	0100 0010	2928.75	2964.0	-0.1	0.4	18.5	2967.8	-3.9
191	0100 0001	2944.38	2986.6	-0.4	-0.2	22.6	2983.7	2.9
192	0100 0000	2960.00	2998.6	-0.1	-0.1	12.0	2999.5	-1.0
193	0011 1111	2975.63	3009.3	0.4	0.0	10.8	3015.4	-6.0
194	0011 1110	2991.25	3022.3	0.3	0.3	13.0	3031.2	-8.9
195	0011 1101	3006.88	3049.1	-0.1	0.6	26.8	3047.0	2.1
196	0011 1100	3022.50	3062.0	-0.4	-0.4	12.9	3062.9	-0.8
197	0011 1011	3038.13	3075.1	-0.0	-0.4	13.0	3078.7	-3.6
198	0011 1010	3053.75	3090.7	0.4	0.4	15.6	3094.6	-3.8
199	0011 1001	3069.38	3116.7	0.7	0.7	26.0	3110.4	6.3
200	0011 1000	3085.00	3117.9	-0.5	-0.0	1.2	3126.2	-8.3
201	0011 0111	3100.63	3135.7	-0.5	-0.4	17.8	3142.1	-6.3
202	0011 0110	3116.25	3151.7	-0.0	-0.4	16.0	3157.9	-6.2
203	0011 0101	3131.88	3176.8	0.4	0.5	25.1	3173.8	3.0
204	0011 0100	3147.50	3191.5	-0.0	0.3	14.6	3189.6	1.8
205	0011 0011	3163.13	3201.6	-0.5	-0.4	10.1	3205.5	-3.8
206	0011 0010	3178.75	3220.4	-0.6	-0.4	18.8	3221.3	-0.9
207	0011 0001	3194.38	3243.0	0.3	-0.0	22.5	3237.1	5.8
208	0011 0000	3210.00	3253.1	0.4	0.5	10.2	3253.0	0.2
209	0010 1111	3225.63	3262.7	-0.1	0.4	9.6	3268.8	-6.1

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 457

1981/11/30 13:52:55 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=2)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
210	0010 1110	3241.25	3276.1	-0.4	-0.3	13.3	3284.7	-8.6
211	0010 1101	3256.88	3303.1	-0.1	-0.4	27.0	3300.5	2.6
212	0010 1100	3272.50	3312.6	0.4	0.4	9.5	3316.3	-3.7
213	0010 1011	3288.13	3328.4	0.4	0.4	15.8	3332.2	-3.8
214	0010 1010	3303.75	3345.3	-0.5	0.0	16.9	3348.0	-2.8
215	0010 1001	3319.38	3371.4	-0.6	-0.5	26.2	3363.9	7.6
216	0010 1000	3335.00	3377.0	-0.1	-0.4	5.5	3379.7	-2.7
217	0010 0111	3350.63	3389.5	0.2	0.2	12.5	3395.5	-6.1
218	0010 0110	3366.25	3405.2	-0.1	0.4	15.7	3411.4	-6.2
219	0010 0101	3381.88	3431.2	-0.6	-0.4	26.0	3427.2	4.0
220	0010 0100	3397.50	3444.0	-0.5	4.8	12.7	3443.1	0.9
221	0010 0011	3413.13	3455.3	0.4	0.0	11.3	3458.9	-3.6
222	0010 0010	3428.75	3474.2	0.3	0.4	18.9	3474.7	-0.5
223	0010 0001	3444.38	3496.9	-0.1	0.5	22.7	3490.6	6.3
224	0010 0000	3460.00	3508.6	-0.6	-0.6	11.7	3506.4	2.2
225	0001 1111	3475.63	3524.4	-0.1	-0.4	15.8	3522.3	2.2
226	0001 1110	3491.25	3530.9	0.4	0.5	6.4	3538.1	-7.2
227	0001 1101	3506.88	3558.6	0.4	0.6	27.7	3554.0	4.6
228	0001 1100	3522.50	3571.9	-0.5	0.0	13.3	3569.8	2.1
229	0001 1011	3538.13	3585.1	-0.6	-0.4	13.2	3585.6	-0.5
230	0001 1010	3553.75	3600.2	-0.1	-0.5	15.1	3601.5	-1.3
231	0001 1001	3569.38	3627.1	0.3	0.5	26.9	3617.3	9.8
232	0001 1000	3585.00	3629.7	-0.1	0.3	2.5	3633.2	-3.5
233	0001 0111	3600.63	3646.9	-0.6	-0.4	17.2	3649.0	-2.1
234	0001 0110	3616.25	3661.5	-0.5	-0.4	14.6	3664.8	-3.4
235	0001 0101	3631.88	3687.3	0.4	0.0	25.8	3680.7	6.6
236	0001 0100	3647.50	3701.7	0.3	0.4	14.4	3696.5	5.1

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST 527 NOV 30 '81

1981/11/30 13:52:55 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

HAC TEST 527

NOV 30 '81

3.5.3.5-B A/D THRESHOLD TEST (BAND= 3, SENSOR=2 .)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
237	0001 0011	3663.13	3712.3	-0.1	0.4	10.6	3712.4	-0.1
238	0001 0010	3678.75	3730.7	-0.4	-0.4	18.5	3728.2	2.5
239	0001 0001	3694.38	3754.2	-0.1	-0.4	23.5	3744.0	10.2
240	0001 0000	3710.00	3769.2	0.4	0.5	15.0	3759.9	9.4
241	0000 1111	3725.63	3779.7	0.4	0.5	10.5	3775.7	4.0
242	0000 1110	3741.25	3787.0	-0.5	0.0	7.3	3791.6	-4.6
243	0000 1101	3756.88	3814.8	-0.7	-0.5	27.9	3807.4	7.4
244	0000 1100	3772.50	3824.2	-0.1	-0.4	9.3	3823.2	0.9
245	0000 1011	3788.13	3840.5	0.3	0.4	16.3	3839.1	1.4
246	0000 1010	3803.75	3856.2	-0.2	0.4	15.7	3854.9	1.3
247	0000 1001	3819.38	3883.7	-0.7	-0.5	27.5	3870.8	12.9
248	0000 1000	3835.00	3892.6	-0.6	-0.6	8.9	3886.6	6.0
249	0000 0111	3850.63	3902.4	0.4	0.1	9.8	3902.5	-0.0
250	0000 0110	3866.25	3917.1	0.3	0.4	14.7	3918.3	-1.2
251	0000 0101	3881.88	3943.5	-0.2	0.5	26.3	3934.1	9.3
252	0000 0100	3897.50	3956.5	-0.4	-0.4	13.0	3950.0	6.5
253	0000 0011	3913.13	3969.0	-0.1	-0.6	12.4	3965.8	3.1
254	0000 0010	3928.75	3986.7	0.3	0.5	17.8	3981.7	5.1
255	0000 0001	3944.38	4010.2	0.3	0.6	23.4	3997.5	12.7

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 459
1981/11/30 13:59:18 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=3)

S U M M A R Y

CHECK 1) RMS ERROR, 2) THRESHOLD INCREMENT(+/- 0.0 <= THRH INC <= 31.2)
THE REMAINING DATA ARE FOR INFORMATION ONLY

BEST FIT STRAIGHT LINE IS: Y =15.851X -42.4MV

DEVIATION OF SLOPE FROM IDEAL IS: 1.449%
OFFSET IS:-42.4MV
COEFFICIENT OF DETERMINATION IS: R**2= .99998760
ANALOG INPUT DURING DC RESTORE IS:64.4MV

RMS ERROR = 4.315MV REQMT: RMS ERROR <=7.812MV

THRESHOLD INCREMENT MEASUREMENT

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
26.8MV	243	15.915MV	3.1MV	200	5.448MV

LOWER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
3.2MV	49	-0.079MV	-5.8MV	209	.732MV

UPPER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
3. MV	49	0.015MV	-2.7MV	15	.610MV

TEST PASSED

ORIGINAL PAGE IS OF POOR QUALITY

HAC 1981 NOV 30 '81

1981/11/30 13:59:31 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-B A/D THRESHOLD TEST (BAND= 3, SENSOR=3)

HAC TEST S27
NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
THE FOLLOWING DATA ARE FOR INFORMATION ONLY								
1	1111 1111	-24.375	-31.5	-0.3	-0.7		-26.6	-4.9
2	1111 1110	-8.750	-17.0	0.4	0.5	14.5	-10.7	-6.3
3	1111 1101	6.875	6.2	1.4	1.5	23.2	5.1	1.1
4	1111 1100	22.500	19.3	0.0	-0.1	13.1	21.0	-1.6
5	1111 1011	38.125	34.8	-0.9	-0.7	15.5	36.8	-2.0
6	1111 1010	53.750	51.8	0.5	0.0	16.9	52.7	-0.9
7	1111 1001	69.375	73.2	0.2	0.3	21.4	68.5	4.7
8	1111 1000	85.000	79.1	-0.0	0.2	5.9	84.4	-5.2
9	1111 0111	100.625	96.0	-0.9	-0.8	16.8	100.2	-4.2
10	1111 0110	116.250	113.5	-0.7	-0.6	17.6	116.1	-2.5
11	1111 0101	131.875	133.7	0.3	0.5	20.2	131.9	1.8
12	1111 0100	147.500	149.7	-0.0	0.0	16.0	147.8	1.9
13	1111 0011	163.125	162.1	-0.9	0.0	12.4	163.6	-1.5
14	1111 0010	178.750	182.5	-0.7	-0.6	20.3	179.5	3.0
15	1111 0001	194.375	200.8	-0.0	-2.7	18.3	195.3	5.5
16	1111 0000	210.000	209.5	0.6	0.5	8.6	211.2	-1.7
17	1110 1111	225.625	222.5	0.6	0.7	13.0	227.0	-4.5
18	1110 1110	241.250	238.3	-0.6	-0.5	15.8	242.9	-4.6
19	1110 1101	256.875	262.3	-1.6	-1.4	24.0	258.7	3.6
20	1110 1100	272.500	274.5	0.1	0.0	12.2	274.6	-0.1
21	1110 1011	288.125	288.7	0.9	0.9	14.1	290.4	-1.8
22	1110 1010	303.750	306.7	-0.1	0.7	18.1	306.3	0.5
23	1110 1001	319.375	327.7	-0.2	-0.2	21.0	322.1	5.6
24	1110 1000	335.000	338.3	-0.3	-0.3	10.5	338.0	0.3
25	1110 0111	350.625	349.6	0.8	0.8	11.3	353.8	-4.2

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 461
1981/11/30 13:59:31 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

HAC TEST S27

NOV 30 '81

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=3)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
26	1110 0110	366.250	367.5	0.4	0.6	17.9	369.7	-2.2
27	1110 0101	381.875	388.2	-0.4	0.1	20.7	385.5	2.7
28	1110 0100	397.500	408.6	0.0	0.1	20.3	401.4	7.2
29	1110 0011	413.125	416.6	0.0	-0.8	8.0	417.2	-0.7
30	1110 0010	428.750	436.3	0.5	0.6	19.8	433.1	3.2
31	1110 0001	444.375	454.2	0.7	0.7	17.8	448.9	5.2
32	1110 0000	460.000	460.9	-0.5	-0.5	6.7	464.8	-3.9
33	1101 1111	475.625	478.8	-0.6	-0.6	17.9	480.6	-1.8
34	1101 1110	491.250	492.6	0.5	-0.0	13.7	496.5	-3.9
35	1101 1101	506.875	516.6	1.3	1.4	24.0	512.4	4.2
36	1101 1100	522.500	526.6	0.0	2.6	10.0	528.2	-1.6
37	1101 1011	538.125	545.2	-1.0	-1.0	18.6	544.1	1.1
38	1101 1010	553.750	562.5	-1.2	-1.4	17.3	559.9	2.6
39	1101 1001	569.375	583.0	0.1	0.2	20.5	575.8	7.3
40	1101 1000	585.000	591.1	0.2	0.2	8.1	591.6	-0.5
41	1101 0111	600.625	605.8	-0.8	-0.0	14.7	607.5	-1.7
42	1101 0110	616.250	622.6	-0.7	-0.7	16.8	623.3	-0.7
43	1101 0101	631.875	643.2	-0.0	-0.1	20.5	639.2	4.0
44	1101 0100	647.500	659.4	-0.0	0.0	16.2	655.0	4.4
45	1101 0011	663.125	670.8	0.9	0.9	11.4	670.9	-0.1
46	1101 0010	678.750	691.1	-0.6	-0.5	20.3	686.7	4.3
47	1101 0001	694.375	709.9	-0.2	-0.1	18.9	702.6	7.4
48	1101 0000	710.000	722.6	0.6	-0.1	12.7	718.4	4.2
49	1100 1111	725.625	731.7	3.2	3.3	9.0	734.3	-2.6
50	1100 1110	741.250	746.0	0.0	0.6	14.3	750.1	-4.1
51	1100 1101	756.875	771.2	-1.2	-1.3	25.2	766.0	5.2

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 462

1981/11/30 13:59:31 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=3)

HAC TEST 527

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
52	1100 1100	772.500	782.7	-0.1	-0.1	11.5	781.8	0.9
53	1100 1011	788.125	797.3	1.0	0.9	14.6	797.7	-0.4
54	1100 1010	803.750	814.3	0.8	0.9	17.0	813.5	0.8
55	1100 1001	819.375	835.9	-0.2	0.1	21.5	829.4	6.5
56	1100 1000	835.000	849.6	-0.3	-0.3	13.7	845.2	4.4
57	1100 0111	850.625	858.4	-0.0	-0.6	8.8	861.1	-2.7
58	1100 0110	866.250	874.7	0.6	0.6	16.2	876.9	-2.3
59	1100 0101	881.875	895.4	0.1	0.1	20.8	892.8	2.6
60	1100 0100	897.500	915.3	-0.1	-0.1	19.9	908.6	6.7
61	1100 0011	913.125	924.1	-0.9	-0.9	8.7	924.5	-0.4
62	1100 0010	928.750	942.9	0.5	-0.0	18.8	940.3	2.6
63	1100 0001	944.375	961.8	0.1	0.2	18.9	956.2	5.6
64	1100 0000	960.000	974.8	0.0	0.0	12.9	972.0	2.7
65	1011 1111	975.625	987.2	-0.8	-0.8	12.4	987.9	-0.7
66	1011 1110	991.250	1001.3	-0.6	-0.7	14.1	1003.7	-2.4
67	1011 1101	1006.88	1025.4	0.8	0.9	24.1	1019.6	5.8
68	1011 1100	1022.50	1037.2	-0.2	-0.1	11.8	1035.4	1.8
69	1011 1011	1038.13	1052.8	-1.0	0.0	15.6	1051.3	1.5
70	1011 1010	1053.75	1071.7	-0.5	-0.4	18.8	1067.2	4.5
71	1011 1001	1069.38	1091.3	0.0	-0.2	19.7	1083.0	8.3
72	1011 1000	1085.00	1095.1	0.3	0.2	3.8	1098.9	-3.8
73	1011 0111	1100.63	1112.3	1.0	1.0	17.2	1114.7	-2.4
74	1011 0110	1116.25	1129.8	-0.7	-0.6	17.5	1130.6	-0.8
75	1011 0101	1131.88	1151.0	-0.3	-0.2	21.2	1146.4	4.5
76	1011 0100	1147.50	1165.2	-0.2	0.1	14.3	1162.3	3.0
77	1011 0011	1163.13	1177.5	1.0	1.0	12.3	1178.1	-0.6
78	1011 0010	1178.75	1197.2	0.0	0.6	19.7	1194.0	3.2

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 463

1981/11/30 13:59:31 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-3 A/D THRESHOLD TEST (BAND= 3, SENSOR=3)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
79	1011 0001	1194.38	1217.3	-0.2	-0.1	20.1	1209.8	7.5
80	1011 0000	1210.00	1226.5	-0.4	1.6	9.2	1225.7	0.9
81	1010 1111	1225.63	1238.4	0.5	0.5	11.8	1241.5	-3.1
82	1010 1110	1241.25	1252.6	0.6	0.7	14.2	1257.4	-4.8
83	1010 1101	1256.88	1278.1	-0.6	0.0	25.5	1273.2	4.8
84	1010 1100	1272.50	1288.2	-0.2	-0.2	10.2	1289.1	-0.8
85	1010 1011	1288.13	1304.6	-0.0	-1.0	16.3	1304.9	-0.3
86	1010 1010	1303.75	1323.6	0.3	0.3	19.0	1320.8	2.8
87	1010 1001	1319.38	1342.6	0.2	0.2	19.0	1336.6	6.0
88	1010 1000	1335.00	1352.1	-0.2	-0.3	9.5	1352.5	-0.4
89	1010 0111	1350.63	1364.8	-0.8	-0.8	12.7	1368.3	-3.6
90	1010 0110	1366.25	1380.9	0.5	-0.1	16.1	1384.2	-3.3
91	1010 0101	1381.88	1402.1	0.2	0.2	21.2	1400.0	2.0
92	1010 0100	1397.50	1421.3	0.0	-0.1	19.3	1415.9	5.5
93	1010 0011	1413.13	1430.0	-0.9	-0.9	8.7	1431.7	-1.7
94	1010 0010	1428.75	1449.4	-0.5	-0.6	19.4	1447.6	1.9
95	1010 0001	1444.38	1468.5	0.1	0.2	19.1	1463.4	5.1
96	1010 0000	1460.00	1476.1	0.5	0.6	7.5	1479.3	-3.2
97	1001 1111	1475.63	1495.4	-0.3	0.1	19.3	1495.1	0.2
98	1001 1110	1491.25	1505.4	-0.6	-0.6	10.0	1511.0	-5.6
99	1001 1101	1506.88	1531.0	0.0	-0.6	25.6	1526.8	4.2
100	1001 1100	1522.50	1541.9	-0.0	0.0	10.9	1542.7	-0.8
101	1001 1011	1538.13	1556.6	1.0	1.0	14.7	1558.5	-2.0
102	1001 1010	1553.75	1575.5	-0.4	-0.4	18.9	1574.4	1.1
103	1001 1001	1569.38	1595.7	-0.2	-0.1	20.1	1590.2	5.4
104	1001 1000	1585.00	1601.7	0.2	-0.1	6.0	1606.1	-4.4

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 464

1981/11/30 13:59:31 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-B A/D THRESHOLD TEST (BAND= 3, SENSOR=3)

HAC TEST S27

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
105	1001 0111	1600.63	1617.0	0.6	0.7	15.3	1622.0	-4.9
106	1001 0110	1616.25	1633.0	-0.0	0.5	16.0	1637.8	-4.8
107	1001 0101	1631.88	1655.0	-0.1	-0.1	22.0	1653.7	1.4
108	1001 0100	1647.50	1669.6	-0.1	-0.1	14.6	1669.5	0.1
109	1001 0011	1663.13	1682.1	0.9	0.9	12.5	1685.4	-3.2
110	1001 0010	1678.75	1700.9	0.5	0.6	18.8	1701.2	-0.3
111	1001 0001	1694.38	1721.6	-0.1	0.0	20.7	1717.1	4.5
112	1001 0000	1710.00	1733.1	-0.3	-0.4	11.5	1732.9	0.2
113	1000 1111	1725.63	1746.9	-0.0	-0.3	13.8	1748.8	-1.9
114	1000 1110	1741.25	1756.2	0.6	0.6	9.3	1764.6	-8.4
115	1000 1101	1756.88	1782.0	0.5	0.5	25.8	1780.5	1.6
116	1000 1100	1772.50	1791.9	-0.2	-0.2	9.9	1796.3	-4.4
117	1000 1011	1788.13	1809.0	-0.9	-0.9	17.1	1812.2	-3.2
118	1000 1010	1803.75	1827.1	0.4	-0.2	18.0	1828.0	-1.0
119	1000 1001	1819.38	1846.8	0.2	0.1	19.7	1843.9	2.9
120	1000 1000	1835.00	1858.7	-0.1	-0.1	11.9	1859.7	-1.0
121	1000 0111	1850.63	1869.0	-0.5	-0.6	10.2	1875.6	-6.6
122	1000 0110	1866.25	1884.9	-0.5	-0.5	15.9	1891.4	-6.5
123	1000 0101	1881.88	1906.2	0.1	0.1	21.3	1907.3	-1.1
124	1000 0100	1897.50	1925.9	-0.3	-0.2	19.6	1923.1	2.7
125	1000 0011	1913.13	1934.3	-0.9	-0.1	8.4	1939.0	-4.7
126	1000 0010	1928.75	1952.9	-0.6	-0.5	18.6	1954.8	-1.9
127	1000 0001	1944.38	1972.7	0.0	-0.1	19.8	1970.7	2.0
128	1000 0000	1960.00	1982.3	0.4	0.3	9.6	1986.5	-4.2
129	0111 1111	1975.63	1997.6	0.9	1.0	15.3	2002.4	-4.8
130	0111 1110	1991.25	2014.0	-0.6	-0.5	16.4	2018.2	-4.3

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 465

1981/11/30 13:59:31 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=3)

HAC TEST S27 NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
131	0111 1101	2006.88	2038.5	-0.5	-0.4	24.5	2034.1	4.4
132	0111 1100	2022.50	2052.1	0.3	0.0	13.6	2049.9	2.2
133	0111 1011	2038.13	2063.0	0.9	0.8	10.9	2065.8	-2.8
134	0111 1010	2053.75	2085.3	-0.0	0.3	22.3	2081.6	3.6
135	0111 1001	2069.38	2104.3	-0.3	-0.5	19.0	2097.5	6.8
136	0111 1000	2085.00	2108.5	-0.1	-0.2	4.2	2113.3	-4.9
137	0111 0111	2100.63	2123.5	0.9	1.0	15.0	2129.2	-5.7
138	0111 0110	2116.25	2141.8	0.6	0.6	18.3	2145.1	-3.2
139	0111 0101	2131.88	2164.2	-0.2	0.0	22.3	2160.9	3.3
140	0111 0100	2147.50	2181.0	-0.6	-0.6	16.8	2176.8	4.2
141	0111 0011	2163.13	2189.5	-0.0	-0.8	8.5	2192.6	-3.1
142	0111 0010	2178.75	2210.0	0.5	0.6	20.4	2208.5	1.5
143	0111 0001	2194.38	2229.2	0.8	0.8	19.3	2224.3	4.9
144	0111 0000	2210.00	2239.5	-0.6	-0.6	10.2	2240.2	-0.7
145	0110 1111	2225.63	2250.4	-0.7	-0.8	11.0	2256.0	-5.6
146	0110 1110	2241.25	2265.4	0.5	-0.0	14.9	2271.9	-6.5
147	0110 1101	2256.88	2289.8	0.4	0.5	24.5	2287.7	2.1
148	0110 1100	2272.50	2301.9	-0.1	0.1	12.1	2303.6	-1.7
149	0110 1011	2288.13	2315.6	-0.7	-0.7	13.7	2319.4	-3.8
150	0110 1010	2303.75	2338.1	-0.4	-0.4	22.5	2335.3	2.8
151	0110 1001	2319.38	2355.5	0.2	0.3	17.4	2351.1	4.4
152	0110 1000	2335.00	2364.2	0.4	0.4	8.7	2367.0	-2.8
153	0110 0111	2350.63	2376.2	-0.9	0.1	12.0	2382.8	-6.6
154	0110 0110	2366.25	2394.1	-0.5	-0.5	17.9	2398.7	-4.5
155	0110 0101	2381.88	2415.4	0.0	-0.2	21.2	2414.5	0.8
156	0110 0100	2397.50	2435.8	0.2	0.1	20.4	2430.4	5.4
157	0110 0011	2413.13	2440.5	0.7	0.6	4.7	2446.2	-5.8

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 466

1981/11/30 13:59:31 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

HAC TEST 527

NOV 30 '81

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=3)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
158	0110 0010	2428.75	2462.2	-0.5	-0.4	21.7	2462.1	0.1
159	0110 0001	2444.38	2481.5	-0.2	-0.5	19.3	2477.9	3.6
160	0110 0000	2460.00	2487.3	-0.0	-0.1	5.8	2493.8	-6.5
161	0101 1111	2475.63	2508.3	-4.8	0.2	21.0	2509.6	-1.3
162	0101 1110	2491.25	2517.8	-0.1	0.5	9.5	2525.5	-7.7
163	0101 1101	2506.88	2543.3	-0.5	-0.5	25.5	2541.3	2.0
164	0101 1100	2522.50	2557.6	-0.3	-0.2	14.3	2557.2	0.4
165	0101 1011	2538.13	2568.1	0.7	0.8	10.6	2573.0	-4.9
166	0101 1010	2553.75	2589.6	-1.9	0.4	21.5	2588.9	0.7
167	0101 1001	2569.38	2608.8	-0.3	-0.1	19.2	2604.7	4.1
168	0101 1000	2585.00	2615.4	-0.3	-0.3	6.5	2620.6	-5.2
169	0101 0111	2600.63	2629.5	0.0	-0.9	14.1	2636.4	-7.0
170	0101 0110	2616.25	2646.1	0.5	0.5	16.6	2652.3	-6.2
171	0101 0101	2631.88	2669.5	-1.3	0.4	23.4	2668.1	1.4
172	0101 0100	2647.50	2685.3	-0.4	-0.4	15.8	2684.0	1.3
173	0101 0011	2663.13	2694.5	-0.4	-0.5	9.0	2699.9	-5.5
174	0101 0010	2678.75	2714.3	0.5	-0.1	20.0	2715.7	-1.4
175	0101 0001	2694.38	2734.7	0.2	0.2	20.3	2731.6	3.1
176	0101 0000	2710.00	2747.8	0.0	0.5	13.1	2747.4	0.4
177	0100 1111	2725.63	2760.4	-0.2	-0.2	12.6	2763.3	-2.8
178	0100 1110	2741.25	2770.0	-0.4	-0.4	9.6	2779.1	-9.1
179	0100 1101	2756.88	2794.7	0.4	0.6	24.6	2795.0	-0.3
180	0100 1100	2772.50	2806.1	0.2	0.2	11.5	2810.8	-4.7
181	0100 1011	2788.13	2820.7	-0.6	0.0	14.5	2826.7	-6.0
182	0100 1010	2803.75	2842.3	-0.3	-0.2	21.6	2842.5	-0.2
183	0100 1001	2819.38	2860.5	-0.0	-0.1	18.2	2858.4	2.1

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 467

1981/11/30 13:59:31 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=3)

HAC TEST 127

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
184	0100 1000	2835.00	2876.3	0.2	0.0	15.8	2874.2	2.1
185	0100 0111	2850.63	2880.7	0.7	0.7	4.3	2890.1	-9.4
186	0100 0110	2866.25	2898.4	-0.4	-0.4	17.8	2905.9	-7.5
187	0100 0101	2881.88	2920.6	0.8	0.9	22.2	2921.8	-1.1
188	0100 0100	2897.50	2941.6	0.2	0.0	21.0	2937.6	4.0
189	0100 0011	2913.13	2945.8	0.6	0.6	4.2	2953.5	-7.6
190	0100 0010	2928.75	2966.3	0.0	0.3	20.4	2969.3	-3.1
191	0100 0001	2944.38	2986.7	-0.1	-0.1	20.4	2985.2	1.5
192	0100 0000	2960.00	2995.3	-0.1	-0.1	8.6	3001.0	-5.7
193	0011 1111	2975.63	3009.9	0.3	0.5	14.5	3016.9	-7.0
194	0011 1110	2991.25	3024.7	0.3	0.4	14.8	3032.7	-8.1
195	0011 1101	3006.88	3050.3	-0.4	0.1	25.6	3048.6	1.7
196	0011 1100	3022.50	3063.4	-0.4	-0.4	13.1	3064.4	-1.0
197	0011 1011	3038.13	3075.7	0.0	-0.6	12.3	3080.3	-4.6
198	0011 1010	3053.75	3097.1	0.2	0.1	21.4	3096.1	1.0
199	0011 1001	3069.38	3116.3	0.1	0.1	19.1	3112.0	4.3
200	0011 1000	3085.00	3119.4	-0.3	-0.3	3.1	3127.8	-8.4
201	0011 0111	3100.63	3136.9	-1.0	-1.0	17.5	3143.7	-6.8
202	0011 0110	3116.25	3153.8	0.4	0.0	16.9	3159.5	-5.7
203	0011 0101	3131.88	3177.6	0.3	0.3	23.8	3175.4	2.2
204	0011 0100	3147.50	3191.8	0.0	0.4	14.2	3191.2	0.6
205	0011 0011	3163.13	3202.2	-0.5	-0.5	10.4	3207.1	-4.9
206	0011 0010	3178.75	3227.9	-0.3	-0.2	25.7	3222.9	5.0
207	0011 0001	3194.38	3243.3	0.0	0.2	15.4	3238.8	4.5
208	0011 0000	3210.00	3253.7	0.5	0.4	10.4	3254.7	-0.9
209	0010 1111	3225.63	3269.2	-5.8	0.0	15.5	3270.5	-1.3

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATTC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 468
1981/11/30 13:59:31 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=3)

HAC TEST 527 NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV. THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
210	0010 1110	3241.25	3278.7	-0.4	-0.4	9.5	3286.4	-7.7
211	0010 1101	3256.88	3304.1	-0.1	-0.5	25.4	3302.2	1.9
212	0010 1100	3272.50	3314.1	0.2	0.2	10.0	3318.1	-4.0
213	0010 1011	3288.13	3328.9	0.5	0.4	14.8	3333.9	-5.0
214	0010 1010	3303.75	3351.6	-0.3	-0.2	22.6	3349.8	1.8
215	0010 1001	3319.38	3370.1	-0.1	-0.1	18.6	3365.6	4.5
216	0010 1000	3335.00	3382.6	0.3	0.0	12.4	3381.5	1.1
217	0010 0111	3350.63	3390.2	0.7	0.7	7.6	3397.3	-7.1
218	0010 0110	3366.25	3407.9	-0.1	0.3	17.7	3413.2	-5.3
219	0010 0101	3381.88	3432.0	-0.4	-0.3	24.1	3429.0	3.0
220	0010 0100	3397.50	3450.1	-0.1	-0.4	18.0	3444.9	5.2
221	0010 0011	3413.13	3456.0	0.4	0.4	5.9	3460.7	-4.8
222	0010 0010	3428.75	3476.9	0.1	0.3	20.9	3476.6	0.3
223	0010 0001	3444.38	3497.6	-0.2	0.0	20.7	3492.4	5.2
224	0010 0000	3460.00	3505.2	-0.5	-0.5	7.6	3508.3	-3.0
225	0001 1111	3475.63	3525.3	-0.2	-0.4	20.0	3524.1	1.1
226	0001 1110	3491.25	3533.6	0.4	0.4	8.4	3540.0	-6.3
227	0001 1101	3506.88	3560.0	-0.2	0.7	26.3	3555.8	4.1
228	0001 1100	3522.50	3573.3	-0.4	-0.3	13.3	3571.7	1.6
229	0001 1011	3538.13	3585.9	-0.5	-0.5	12.6	3587.5	-1.6
230	0001 1010	3553.75	3601.6	0.4	0.0	15.7	3603.4	-1.7
231	0001 1001	3569.38	3628.1	-1.7	-1.5	26.5	3619.2	8.9
232	0001 1000	3585.00	3631.5	-0.1	0.1	3.4	3635.1	-3.6
233	0001 0111	3600.63	3653.1	-0.2	-0.1	21.6	3650.9	2.2
234	0001 0110	3616.25	3664.1	-0.0	-0.3	11.0	3666.8	-2.7
235	0001 0101	3631.88	3688.2	0.1	0.4	24.1	3682.6	5.6
236	0001 0100	3647.50	3702.4	0.2	0.4	14.2	3698.5	3.9

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 469

1981/11/30 13:59:31 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=3)

HAC TEST 327

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
237	0001 0011	3663.13	3713.4	-0.4	0.0	11.0	3714.3	-0.9
238	0001 0010	3678.75	3733.6	-0.5	-0.3	20.2	3730.2	3.4
239	0001 0001	3694.38	3754.5	-0.1	-0.0	20.9	3746.0	8.5
240	0001 0000	3710.00	3770.0	0.5	0.6	15.4	3761.9	8.1
241	0000 1111	3725.63	3780.8	-0.1	0.2	10.8	3777.8	3.0
242	0000 1110	3741.25	3789.7	-0.5	-0.3	8.9	3793.6	-3.9
243	0000 1101	3756.88	3816.6	-0.8	-0.6	26.8	3809.5	7.1
244	0000 1100	3772.50	3825.4	0.2	0.1	8.8	3825.3	0.1
245	0000 1011	3788.13	3841.5	0.3	0.5	16.0	3841.2	0.3
246	0000 1010	3803.75	3858.1	-0.1	0.3	16.6	3857.0	1.1
247	0000 1001	3819.38	3884.5	-0.6	-0.3	26.4	3872.9	11.7
248	0000 1000	3835.00	3893.8	-0.0	-0.3	9.3	3888.7	5.1
249	0000 0111	3850.63	3909.1	0.1	0.2	15.2	3904.6	4.5
250	0000 0110	3866.25	3920.1	-0.1	0.1	11.0	3920.4	-0.3
251	0000 0101	3881.88	3944.9	-0.5	0.0	24.8	3936.3	8.6
252	0000 0100	3897.50	3964.2	-0.4	-0.1	19.3	3952.1	12.1
253	0000 0011	3913.13	3969.9	-0.1	-0.4	5.7	3968.0	1.9
254	0000 0010	3928.75	3989.6	0.2	0.3	19.7	3983.8	5.8
255	0000 0001	3944.38	4011.0	-0.3	0.0	21.4	3999.7	11.3

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 470
1981/11/30 14:05:54 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

HAC TEST S27

NOV 30 '81

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=4)

S U M M A R Y

CHECK 1) RMS ERROR, 2) THRESHOLD INCREMENT(+/- 0.0 <= THRH INC <= 31.2)
THE REMAINING DATA ARE FOR INFORMATION ONLY

BEST FIT STRAIGHT LINE IS: Y =15.848X -40.9MV

DEVIATION OF SLOPE FROM IDEAL IS: 1.430%
OFFSET IS:-40.9MV
COEFFICIENT OF DETERMINATION IS: R**2= .99998560
ANALOG INPUT DURING DC RESTORE IS:64.5MV

RMS ERROR = 4.385MV REQMT: RMS ERROR <=7.812MV

THRESHOLD INCREMENT MEASUREMENT

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
26.2MV	222	15.924MV	2.1MV	200	5.404MV

LOWER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
0.8MV	209	-0.066MV	-3.6MV	174	.388MV

UPPER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
0.9MV	209	0.001MV	-0.5MV	192	.264MV

TEST PASSED

ORIGINAL PAGE IS
OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 471

1981/11/30 14:06:07 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5--8 A/D THRESHOLD TEST (BAND= 3, SENSOR=4)

HAC TEST 521

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
THE FOLLOWING DATA ARE FOR INFORMATION ONLY								
1	1111 1111	-24.375	-31.3	-0.1	0.0		-25.1	-6.3
2	1111 1110	-8.750	-15.9	0.2	0.3	15.4	-9.2	-6.7
3	1111 1101	6.875	7.1	-0.0	0.3	23.0	6.6	0.5
4	1111 1100	22.500	19.6	-0.4	-0.3	12.4	22.5	-2.9
5	1111 1011	38.125	35.3	-0.3	-0.2	15.7	38.3	-3.0
6	1111 1010	53.750	54.5	0.2	-0.0	19.2	54.2	0.4
7	1111 1001	69.375	74.1	0.2	0.3	19.6	70.0	4.1
8	1111 1000	85.000	80.4	-0.3	-0.1	6.3	85.9	-5.4
9	1111 0111	100.625	96.5	-0.3	-0.3	16.0	101.7	-5.2
10	1111 0110	116.250	114.4	-0.0	-0.2	17.9	117.6	-3.1
11	1111 0101	131.875	134.7	0.2	0.3	20.2	133.4	1.3
12	1111 0100	147.500	149.9	0.3	0.3	15.2	149.3	0.7
13	1111 0011	163.125	162.7	-0.3	0.0	12.7	165.1	-2.4
14	1111 0010	178.750	184.1	-0.2	-0.2	21.4	181.0	3.1
15	1111 0001	194.375	201.9	0.1	0.0	17.8	196.8	5.1
16	1111 0000	210.000	208.4	0.3	0.3	6.5	212.7	-4.2
17	1110 1111	225.625	226.0	-2.5	0.2	17.6	228.5	-2.5
18	1110 1110	241.250	239.3	-0.3	-0.3	13.3	244.3	-5.1
19	1110 1101	256.875	262.2	-0.3	-0.2	22.9	260.2	2.0
20	1110 1100	272.500	275.6	0.2	-0.0	13.3	276.0	-0.5
21	1110 1011	288.125	289.8	0.3	0.3	14.2	291.9	-2.1
22	1110 1010	303.750	309.9	-0.3	0.1	20.0	307.7	2.1
23	1110 1001	319.375	329.0	-0.4	-0.3	19.1	323.6	5.4
24	1110 1000	335.000	340.2	-0.1	-0.3	11.2	339.4	0.7
25	1110 0111	350.625	350.9	0.2	0.2	10.7	355.3	-4.4

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 472
1981/11/30 14:06:07 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

HAC TEST 527

3.5.4.5-B A/D THRESHOLD TEST (BAND= 3, SENSOR=4)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
26	1110 0110	366.250	368.9	0.2	0.2	18.0	371.1	-2.3
27	1110 0101	381.875	389.5	-0.4	0.0	20.6	387.0	2.5
28	1110 0100	397.500	409.3	-0.4	-0.3	19.8	402.8	6.5
29	1110 0011	413.125	416.9	0.3	-0.0	7.5	418.7	-1.8
30	1110 0010	428.750	437.7	0.1	0.3	20.8	434.5	3.1
31	1110 0001	444.375	456.2	-0.1	0.2	18.5	450.4	5.8
32	1110 0000	460.000	462.5	-0.3	-0.3	6.4	466.2	-3.7
33	1101 1111	475.625	481.9	-0.3	-0.2	19.4	482.1	-0.2
34	1101 1110	491.250	493.8	0.2	0.0	11.9	497.9	-4.1
35	1101 1101	506.875	517.9	0.2	0.3	24.0	513.8	4.1
36	1101 1100	522.500	528.1	-0.3	0.0	10.2	529.6	-1.5
37	1101 1011	538.125	545.7	-0.4	-0.3	17.6	545.5	0.3
38	1101 1010	553.750	564.2	-0.0	-0.2	18.5	561.3	2.9
39	1101 1001	569.375	584.3	0.2	0.3	20.1	577.2	7.1
40	1101 1000	585.000	592.3	0.3	0.2	8.0	593.0	-0.7
41	1101 0111	600.625	606.6	-0.4	-0.1	14.3	608.9	-2.3
42	1101 0110	616.250	623.7	-0.3	-0.2	17.0	624.7	-1.1
43	1101 0101	631.875	644.7	0.3	0.0	21.0	640.6	4.1
44	1101 0100	647.500	660.1	0.2	0.2	15.3	656.4	3.6
45	1101 0011	663.125	672.0	0.0	0.3	12.0	672.3	-0.2
46	1101 0010	678.750	692.7	-0.3	-0.2	20.6	688.1	4.6
47	1101 0001	694.375	711.5	-0.3	-0.2	18.8	704.0	7.5
48	1101 0000	710.000	723.8	0.3	0.0	12.3	719.8	4.0
49	1100 1111	725.625	735.2	0.2	0.2	11.4	735.7	-0.4
50	1100 1110	741.250	747.7	-0.3	0.0	12.4	751.5	-3.8
51	1100 1101	756.875	771.4	-0.3	-0.3	23.8	767.3	4.1

ORIGINAL PAGE IS OF POOR QUALITY

1981/11/30 14:06:07 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=4)

HAC TEST 27
NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
52	1100 1100	772.500	784.1	-0.0	-0.3	12.6	783.2	0.9
53	1100 1011	788.125	798.6	0.3	0.3	14.6	799.0	-0.4
54	1100 1010	803.750	817.8	0.2	0.3	19.1	814.9	2.9
55	1100 1001	819.375	837.5	-0.3	-0.0	19.7	830.7	6.8
56	1100 1000	835.000	851.3	-0.4	-0.2	13.8	846.6	4.7
57	1100 0111	850.625	859.1	0.3	-0.0	7.8	862.4	-3.3
58	1100 0110	866.250	876.2	0.1	0.2	17.1	878.3	-2.1
59	1100 0101	881.875	897.5	-0.1	0.2	21.2	894.1	3.3
60	1100 0100	897.500	914.5	-0.3	-0.3	17.0	910.0	4.5
61	1100 0011	913.125	924.8	-0.2	-0.2	10.3	925.8	-1.1
62	1100 0010	928.750	944.4	0.2	-0.0	19.6	941.7	2.7
63	1100 0001	944.375	963.4	0.1	0.2	19.0	957.5	5.9
64	1100 0000	960.000	977.0	-0.4	-0.1	13.5	973.4	3.6
65	1011 1111	975.625	991.4	-0.2	-0.2	14.4	989.2	2.2
66	1011 1110	991.250	1002.4	-0.1	-0.3	11.0	1005.1	-2.6
67	1011 1101	1006.88	1026.4	0.3	0.2	24.0	1020.9	5.5
68	1011 1100	1022.50	1037.1	0.3	0.3	10.6	1036.8	0.3
69	1011 1011	1038.13	1053.5	-0.2	0.0	16.4	1052.6	0.9
70	1011 1010	1053.75	1072.4	-0.3	-0.3	18.9	1068.5	4.0
71	1011 1001	1069.38	1092.5	0.3	-0.0	20.0	1084.3	8.1
72	1011 1000	1085.00	1096.4	0.2	0.2	3.9	1100.2	-3.8
73	1011 0111	1100.63	1113.7	-0.1	0.3	17.3	1116.0	-2.4
74	1011 0110	1116.25	1131.0	-0.3	-0.3	17.3	1131.9	-0.9
75	1011 0101	1131.88	1152.7	-0.3	-0.3	21.7	1147.7	5.0
76	1011 0100	1147.50	1165.8	0.2	0.1	13.0	1163.6	2.2
77	1011 0011	1163.13	1178.9	0.4	0.3	13.1	1179.4	-0.5
78	1011 0010	1178.75	1199.3	-0.2	-0.0	20.4	1195.3	4.1

ORIGINAL PAGE IS OF POOR QUALITY

1981/11/30 14:06:07 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-A A/D THRESHOLD TEST (BAND= 3, SENSOR=4)

HAC TFST S27
NOV 30 '01

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
79	1011 0001	1194.38	1218.9	-0.2	-0.2	19.5	1211.1	7.8
80	1011 0000	1210.00	1228.0	0.0	-0.3	9.2	1227.0	1.1
81	1010 1111	1225.63	1242.9	0.2	0.2	14.9	1242.8	0.1
82	1010 1110	1241.25	1254.0	0.3	0.2	11.1	1258.7	-4.6
83	1010 1101	1256.88	1278.3	-0.3	-0.0	24.2	1274.5	3.8
84	1010 1100	1272.50	1289.5	-0.4	-0.4	11.3	1290.3	-0.8
85	1010 1011	1288.13	1304.9	0.3	-0.0	15.4	1306.2	-1.3
86	1010 1010	1303.75	1324.3	0.3	0.3	19.4	1322.0	2.2
87	1010 1001	1319.38	1344.0	0.0	0.3	19.7	1337.9	6.1
88	1010 1000	1335.00	1353.8	-0.2	-0.3	9.8	1353.7	0.1
89	1010 0111	1350.63	1365.5	-0.4	-0.3	11.6	1369.6	-4.1
90	1010 0110	1366.25	1382.2	0.3	-0.0	16.7	1385.4	-3.2
91	1010 0101	1381.88	1404.3	0.3	0.3	22.1	1401.3	3.0
92	1010 0100	1397.50	1422.1	-0.3	-0.0	17.8	1417.1	4.9
93	1010 0011	1413.13	1430.6	-0.3	-0.2	8.5	1433.0	-2.4
94	1010 0010	1428.75	1450.5	-0.1	-0.2	19.9	1448.8	1.7
95	1010 0001	1444.38	1469.9	0.2	0.2	19.4	1464.7	5.2
96	1010 0000	1460.00	1480.7	0.3	0.3	10.8	1480.5	0.2
97	1001 1111	1475.63	1495.9	-0.3	0.0	15.2	1496.4	-0.5
98	1001 1110	1491.25	1506.2	-0.3	-0.2	10.3	1512.2	-6.0
99	1001 1101	1506.88	1530.5	0.3	-0.0	24.3	1528.1	2.5
100	1001 1100	1522.50	1541.0	0.2	0.3	10.5	1543.9	-2.9
101	1001 1011	1538.13	1557.8	0.0	0.3	16.7	1559.8	-2.0
102	1001 1010	1553.75	1576.3	-0.3	-0.3	18.5	1575.6	0.7
103	1001 1001	1569.38	1597.4	-0.4	-0.4	21.1	1591.5	6.0
104	1001 1000	1585.00	1602.8	0.3	-0.0	5.3	1607.3	-4.6

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 475

1981/11/30 14:06:07 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-B A/D THRESHOLD TEST (BAND= 3, SENSOR=4)

HAC TEST S21

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
105	1001 0111	1600.63	1622.1	0.1	0.2	19.3	1623.2	-1.1
106	1001 0110	1616.25	1634.6	-0.3	-0.0	12.5	1639.0	-4.4
107	1001 0101	1631.88	1657.4	-0.2	-0.2	22.8	1654.9	2.5
108	1001 0100	1647.50	1670.4	0.0	-0.3	13.0	1670.7	-0.3
109	1001 0011	1663.13	1683.2	0.3	0.3	12.8	1686.6	-3.3
110	1001 0010	1678.75	1702.5	0.3	0.2	19.2	1702.4	0.1
111	1001 0001	1694.38	1722.9	-0.3	0.0	20.5	1718.3	4.7
112	1001 0000	1710.00	1738.0	-0.4	-0.4	15.0	1734.1	3.9
113	1000 1111	1725.63	1747.0	0.2	0.0	9.0	1750.0	-2.9
114	1000 1110	1741.25	1757.6	0.2	0.2	10.5	1765.8	-8.2
115	1000 1101	1756.88	1781.8	0.0	0.3	24.3	1781.7	0.2
116	1000 1100	1772.50	1793.0	-0.4	-0.4	11.2	1797.5	-4.5
117	1000 1011	1788.13	1809.6	-0.4	-0.4	16.5	1813.3	-3.8
118	1000 1010	1803.75	1827.7	0.2	-0.0	18.2	1829.2	-1.5
119	1000 1001	1819.38	1848.9	0.1	0.2	21.1	1845.0	3.8
120	1000 1000	1835.00	1860.2	-0.2	0.3	11.3	1860.9	-0.7
121	1000 0111	1850.63	1873.4	-0.2	-0.2	13.2	1876.7	-3.4
122	1000 0110	1866.25	1885.9	-0.0	-0.3	12.5	1892.6	-6.7
123	1000 0101	1881.88	1908.3	0.2	0.2	22.4	1908.4	-0.1
124	1000 0100	1897.50	1925.4	0.3	0.3	17.1	1924.3	1.2
125	1000 0011	1913.13	1934.7	-0.3	0.0	9.2	1940.1	-5.4
126	1000 0010	1928.75	1954.0	-0.4	-0.3	19.3	1956.0	-2.0
127	1000 0001	1944.38	1973.7	0.2	0.1	19.7	1971.8	1.9
128	1000 0000	1960.00	1991.8	0.4	0.4	18.1	1987.7	4.1
129	0111 1111	1975.63	2004.3	-0.2	0.2	12.5	2003.5	0.8
130	0111 1110	1991.25	2014.9	-0.3	-0.3	10.6	2019.4	-4.5

ORIGINAL PAGE IS OF POOR QUALITY

981/11/30 14:06:07 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
.5.3.5--4 A/D THRESHOLD TEST (BAND= 3, SENSOR=4)

HAC Test 527
NOV 30 '81

RESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
131	0111 1101	2006.88	2038.8	-0.2	-0.2	23.9	2035.2	3.6
132	0111 1100	2022.50	2051.3	0.2	-0.0	12.5	2051.1	0.2
133	0111 1011	2038.13	2064.1	0.4	0.3	12.7	2066.9	-2.9
134	0111 1010	2053.75	2086.0	-0.4	0.0	21.9	2082.8	3.2
135	0111 1001	2069.38	2105.0	-0.3	-0.3	19.0	2098.6	6.4
136	0111 1000	2085.00	2109.4	-0.1	-0.3	4.3	2114.5	-5.1
137	0111 0111	2100.63	2124.5	0.4	0.3	15.1	2130.3	-5.8
138	0111 0110	2116.25	2143.0	0.3	0.3	18.5	2146.2	-3.2
139	0111 0101	2131.88	2165.6	-0.3	0.1	22.6	2162.0	3.6
140	0111 0100	2147.50	2181.5	-0.3	-0.3	15.9	2177.9	3.6
141	0111 0011	2163.13	2189.8	0.2	0.0	8.3	2193.7	-3.9
142	0111 0010	2178.75	2215.5	0.3	0.3	25.7	2209.6	6.0
143	0111 0001	2194.38	2231.2	-0.2	-0.2	15.6	2225.4	5.8
144	0111 0000	2210.00	2240.4	-0.4	-0.4	9.2	2241.3	-0.8
145	0110 1111	2225.63	2256.0	-0.5	-0.4	15.6	2257.1	-1.1
146	0110 1110	2241.25	2266.4	0.2	0.3	10.4	2273.0	-6.5
147	0110 1101	2256.88	2290.3	0.3	0.3	23.8	2288.8	1.5
148	0110 1100	2272.50	2303.0	-0.3	-0.0	12.7	2304.7	-1.7
149	0110 1011	2288.13	2316.2	-0.4	-0.4	13.2	2320.5	-4.3
150	0110 1010	2303.75	2338.2	-0.1	-0.4	22.0	2336.3	1.9
151	0110 1001	2319.38	2356.4	0.3	0.2	18.2	2352.2	4.2
152	0110 1000	2335.00	2365.3	0.3	0.3	8.9	2368.0	-2.7
153	0110 0111	2350.63	2376.5	-0.3	-0.3	11.2	2383.9	-7.4
154	0110 0110	2366.25	2394.9	-0.3	-0.3	18.5	2399.7	-4.8
155	0110 0101	2381.88	2416.8	0.1	0.0	21.9	2415.6	1.3
156	0110 0100	2397.50	2436.2	0.5	0.4	19.3	2431.4	4.7
157	0110 0011	2413.13	2441.4	-0.1	0.3	5.2	2447.3	-5.9

ORIGINAL PAGE IS OF POOR QUALITY

1981/11/30 14:06:07 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

HAC TEST S27

NOV 30 '81

3.5.3.5-B A/D THRESHOLD TEST (BAND= 3, SENSOR=4)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
158	0110 0010	2428.75	2466.7	-0.2	-0.3	25.3	2463.1	3.6
159	0110 0001	2444.38	2482.8	-0.3	-0.3	16.0	2479.0	3.8
160	0110 0000	2460.00	2489.8	0.3	0.3	7.1	2494.8	-5.0
161	0101 1111	2475.63	2508.4	0.1	0.1	18.6	2510.7	-2.3
162	0101 1110	2491.25	2519.1	-0.4	-0.1	10.6	2526.5	-7.5
163	0101 1101	2506.88	2543.4	-0.2	-0.2	24.3	2542.4	1.0
164	0101 1100	2522.50	2556.8	0.0	-0.3	13.4	2558.2	-1.5
165	0101 1011	2538.13	2569.0	0.3	0.3	12.3	2574.1	-5.1
166	0101 1010	2553.75	2589.8	0.3	0.3	20.8	2589.9	-0.1
167	0101 1001	2569.38	2610.8	-0.3	-0.3	20.9	2605.8	5.0
168	0101 1000	2585.00	2616.1	-0.3	-0.2	5.4	2621.6	-5.5
169	0101 0111	2600.63	2629.4	0.4	0.0	13.2	2637.5	-8.1
170	0101 0110	2616.25	2647.1	0.2	0.2	17.8	2653.3	-6.2
171	0101 0101	2631.88	2669.7	0.0	0.2	22.6	2669.2	0.6
172	0101 0100	2647.50	2686.0	-0.3	-0.3	16.3	2685.0	1.0
173	0101 0011	2663.13	2694.9	-0.4	-0.4	8.9	2700.9	-5.9
174	0101 0010	2678.75	2719.5	-3.6	0.4	24.5	2716.7	2.7
175	0101 0001	2694.38	2735.7	0.3	0.3	16.2	2732.6	3.1
176	0101 0000	2710.00	2749.1	-0.4	0.0	13.5	2748.4	0.7
177	0100 1111	2725.63	2760.3	-0.2	-0.3	11.2	2764.3	-4.0
178	0100 1110	2741.25	2770.8	-0.0	-0.3	10.5	2780.1	-9.3
179	0100 1101	2756.88	2794.8	0.2	0.3	24.0	2796.0	-1.2
180	0100 1100	2772.50	2806.7	0.1	0.2	12.0	2811.8	-5.1
181	0100 1011	2788.13	2821.1	-0.3	-0.3	14.3	2827.7	-6.6
182	0100 1010	2803.75	2842.3	-0.3	-0.2	21.2	2843.5	-1.2
183	0100 1001	2819.38	2862.3	0.2	-0.0	20.0	2859.3	2.9

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 478

1981/11/30 14:06:07 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=4)

HAC TEST S27

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
184	0100 1000	2835.00	2873.5	0.3	0.3	11.2	2875.2	-1.7
185	0100 0111	2850.63	2881.4	-0.1	0.3	7.9	2891.0	-9.6
186	0100 0110	2866.25	2899.1	-0.2	-0.2	17.7	2906.9	-7.8
187	0100 0101	2881.88	2921.8	-0.3	-0.3	22.7	2922.7	-1.0
188	0100 0100	2897.50	2941.6	0.2	0.3	19.8	2938.6	3.0
189	0100 0011	2913.13	2946.5	0.3	0.3	4.9	2954.4	-8.0
190	0100 0010	2928.75	2968.0	-0.2	0.0	21.5	2970.3	-2.3
191	0100 0001	2944.38	2987.8	-0.2	-0.2	19.8	2986.1	1.6
192	0100 0000	2960.00	2997.2	-0.1	-0.5	9.4	3002.0	-4.8
193	0011 1111	2975.63	3016.1	-0.1	0.3	19.0	3017.8	-1.7
194	0011 1110	2991.25	3025.5	0.3	0.3	9.3	3033.7	-8.2
195	0011 1101	3006.88	3050.4	-0.4	-0.3	25.0	3049.5	0.9
196	0011 1100	3022.50	3062.2	-0.3	-0.3	11.8	3065.4	-3.1
197	0011 1011	3038.13	3075.8	0.3	-0.0	13.6	3081.2	-5.4
198	0011 1010	3053.75	3097.6	0.3	0.3	21.7	3097.1	0.5
199	0011 1001	3069.38	3117.9	-0.0	0.3	20.3	3112.9	5.0
200	0011 1000	3085.00	3119.9	-0.3	-0.3	2.1	3128.8	-8.8
201	0011 0111	3100.63	3137.0	-0.4	-0.4	17.1	3144.6	-7.6
202	0011 0110	3116.25	3154.6	0.3	0.3	17.5	3160.5	-5.9
203	0011 0101	3131.88	3177.6	0.2	0.3	23.0	3176.3	1.2
204	0011 0100	3147.50	3192.9	-0.2	0.1	15.3	3192.2	0.7
205	0011 0011	3163.13	3202.6	-0.3	-0.3	9.7	3208.0	-5.4
206	0011 0010	3178.75	3227.9	-0.1	-0.3	25.3	3223.9	4.0
207	0011 0001	3194.38	3244.2	0.3	0.3	16.3	3239.7	4.5
208	0011 0000	3210.00	3254.7	0.3	0.4	10.5	3255.6	-0.8
209	0010 1111	3225.63	3269.2	0.8	0.9	14.4	3271.4	-2.3

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 479

1981/11/30 14:06:07 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=4) NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
210	0010 1110	3241.25	3279.3	-0.3	-0.3	10.1	3287.3	-8.0
211	0010 1101	3256.88	3303.7	0.2	0.1	24.4	3303.1	0.6
212	0010 1100	3272.50	3315.2	0.3	0.4	11.6	3319.0	-3.7
213	0010 1011	3288.13	3329.5	-0.1	0.4	14.3	3334.8	-5.3
214	0010 1010	3303.75	3351.6	-0.2	-0.2	22.1	3350.7	0.9
215	0010 1001	3319.38	3372.0	-0.5	-0.5	20.4	3366.5	5.5
216	0010 1000	3335.00	3383.0	0.3	0.3	10.9	3382.3	0.6
217	0010 0111	3350.63	3390.8	0.4	0.4	7.8	3398.2	-7.4
218	0010 0110	3366.25	3408.9	-0.4	0.0	18.1	3414.0	-5.2
219	0010 0101	3381.88	3431.8	-0.3	-0.2	23.0	3429.9	1.9
220	0010 0100	3397.50	3450.7	-0.1	-0.4	18.9	3445.7	5.0
221	0010 0011	3413.13	3456.4	0.3	0.3	5.7	3461.6	-5.2
222	0010 0010	3428.75	3482.7	0.3	0.3	26.2	3477.4	5.2
223	0010 0001	3444.38	3500.1	-0.4	-0.3	17.4	3493.3	6.8
224	0010 0000	3460.00	3505.3	-0.4	-0.4	5.2	3509.1	-3.9
225	0001 1111	3475.63	3524.6	-0.9	-0.1	19.3	3525.0	-0.4
226	0001 1110	3491.25	3534.1	0.2	0.4	9.5	3540.8	-6.7
227	0001 1101	3506.88	3559.7	-0.2	0.3	25.5	3556.7	3.0
228	0001 1100	3522.50	3572.3	-0.3	-0.3	12.6	3572.5	-0.2
229	0001 1011	3538.13	3586.3	-0.4	-0.3	13.9	3588.4	-2.1
230	0001 1010	3553.75	3607.2	0.2	0.3	20.9	3604.2	3.0
231	0001 1001	3569.38	3628.0	0.2	0.3	20.7	3620.1	7.9
232	0001 1000	3585.00	3632.3	-0.5	-0.1	4.3	3635.9	-3.6
233	0001 0111	3600.63	3647.6	-0.4	-0.3	15.3	3651.8	-4.2
234	0001 0110	3616.25	3664.7	-0.1	-0.3	17.1	3667.6	-2.9
235	0001 0101	3631.88	3688.3	0.1	0.3	23.5	3683.5	4.8
236	0001 0100	3647.50	3703.3	0.1	0.1	15.1	3699.3	4.0

ORIGINAL PAGE IS OF POOR QUALITY

1981/11/30 14:06:07 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=4)

HAC TEST S27 NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
237	0001 0011	3663.13	3713.7	-0.3	-0.2	10.3	3715.2	-1.5
238	0001 0010	3678.75	3738.2	-0.5	-0.2	24.5	3731.0	7.2
239	0001 0001	3694.38	3756.8	0.1	0.0	18.6	3746.9	9.9
240	0001 0000	3710.00	3770.8	0.2	0.3	14.0	3762.7	8.1
241	0000 1111	3725.63	3780.2	-0.1	0.3	9.5	3778.6	1.7
242	0000 1110	3741.25	3790.1	-0.3	-0.3	9.9	3794.4	-4.3
243	0000 1101	3756.88	3815.5	-0.3	-0.2	25.4	3810.3	5.3
244	0000 1100	3772.50	3825.8	0.3	0.3	10.2	3826.1	-0.3
245	0000 1011	3788.13	3841.8	0.2	0.3	16.0	3842.0	-0.1
246	0000 1010	3803.75	3859.0	-0.3	0.0	17.1	3857.8	1.2
247	0000 1001	3819.38	3884.3	-0.5	-0.3	25.3	3873.7	10.6
248	0000 1000	3835.00	3894.5	-0.1	-0.4	10.2	3889.5	5.0
249	0000 0111	3850.63	3909.6	0.4	0.6	15.1	3905.4	4.2
250	0000 0110	3866.25	3920.5	0.3	0.4	10.9	3921.2	-0.7
251	0000 0101	3881.88	3944.7	-0.5	-0.2	24.3	3937.0	7.7
252	0000 0100	3897.50	3963.6	-0.4	-0.2	18.9	3952.9	10.7
253	0000 0011	3913.13	3969.8	0.3	-0.0	6.2	3968.7	1.0
254	0000 0010	3928.75	3995.3	-0.1	0.3	25.6	3984.6	10.8
255	0000 0001	3944.38	4013.2	-0.3	0.2	17.9	4000.4	12.8

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 481
1981/11/30 14:12:30 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

HAC TEST S27

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=5)

S U M M A R Y

CHECK 1) RMS ERROR, 2) THRESHOLD INCREMENT(+/- 0.0 <= THRH INC <= 31.2)
THE REMAINING DATA ARE FOR INFORMATION ONLY

BEST FIT STRAIGHT LINE IS: Y =15.821X -39.2MV

DEVIATION OF SLOPE FROM IDEAL IS: 1.257%
OFFSET IS:-39.2MV
COEFFICIENT OF DETERMINATION IS: R**2= .99998560
ANALOG INPUT DURING DC RESTORE IS:64.4MV

RMS ERROR = 4.442MV REQMT: RMS ERROR <=7.812MV

THRESHOLD INCREMENT MEASUREMENT

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
27.1MV	222	15.893MV	0.8MV	200	5.484MV

LOWER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
2.7MV	161	-0.024MV	-2.9MV	160	.442MV

UPPER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
4.6MV	216	0.060MV	-0.5MV	219	.472MV

TEST PASSED

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 482

1981/11/30 14:12:44 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=5)

HAC TEST S27

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
THE FOLLOWING DATA ARE FOR INFORMATION ONLY								
1	1111 1111	-24.375	-29.7	-0.2	0.1		-23.4	-6.3
2	1111 1110	-8.750	-13.8	0.2	0.3	15.9	-7.6	-6.2
3	1111 1101	6.875	9.3	-0.4	0.0	23.1	8.2	1.1
4	1111 1100	22.500	21.9	-0.3	-0.2	12.6	24.1	-2.2
5	1111 1011	38.125	36.9	0.0	-0.2	15.1	39.9	-2.9
6	1111 1010	53.750	56.5	0.2	0.2	19.6	55.7	0.9
7	1111 1001	69.375	75.9	0.3	0.3	19.3	71.5	4.4
8	1111 1000	85.000	81.5	-0.3	0.0	5.6	87.3	-5.9
9	1111 0111	100.625	98.0	-0.4	-0.3	16.5	103.2	-5.2
10	1111 0110	116.250	116.1	0.2	-0.1	18.1	119.0	-2.9
11	1111 0101	131.875	136.5	0.2	0.3	20.4	134.8	1.7
12	1111 0100	147.500	152.1	-0.0	0.3	15.6	150.6	1.4
13	1111 0011	163.125	164.1	-0.3	-0.3	12.0	166.4	-2.3
14	1111 0010	178.750	185.8	-0.4	-0.3	21.7	182.3	3.6
15	1111 0001	194.375	203.2	0.2	0.0	17.4	198.1	5.1
16	1111 0000	210.000	210.5	0.0	0.1	7.3	213.9	-3.4
17	1110 1111	225.625	225.1	-0.4	0.1	14.5	229.7	-4.7
18	1110 1110	241.250	241.0	-0.3	-0.3	15.9	245.6	-4.6
19	1110 1101	256.875	263.7	-0.1	-0.3	22.8	261.4	2.4
20	1110 1100	272.500	276.5	0.3	0.4	12.7	277.2	-0.7
21	1110 1011	288.125	290.9	0.4	0.4	14.4	293.0	-2.1
22	1110 1010	303.750	311.3	-0.5	-0.1	20.4	308.8	2.5
23	1110 1001	319.375	330.1	-0.3	-0.2	18.8	324.7	5.5
24	1110 1000	335.000	340.6	0.1	-0.0	10.5	340.5	0.1
25	1110 0111	350.625	351.8	0.3	0.3	11.2	356.3	-4.5

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 483

1981/11/30 14:12:44 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=5)

HAC TEST 527

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
26	1110 0110	366.250	370.4	0.0	0.2	18.6	372.1	-1.7
27	1110 0101	381.875	390.7	-0.3	-0.2	20.3	387.9	2.7
28	1110 0100	397.500	410.4	-0.4	-0.3	19.7	403.8	6.7
29	1110 0011	413.125	417.9	0.3	-0.0	7.4	419.6	-1.7
30	1110 0010	428.750	440.0	0.1	0.3	22.1	435.4	4.6
31	1110 0001	444.375	457.2	-0.3	0.0	17.2	451.2	6.0
32	1110 0000	460.000	462.7	-0.2	-0.1	5.5	467.1	-4.3
33	1101 1111	475.625	482.8	-2.5	-0.2	20.1	482.9	-0.0
34	1101 1110	491.250	495.1	0.1	0.2	12.2	498.7	-3.6
35	1101 1101	506.875	518.8	0.3	0.3	23.8	514.5	4.3
36	1101 1100	522.500	528.6	-0.3	0.0	9.7	530.3	-1.7
37	1101 1011	538.125	546.3	-0.4	-0.3	17.7	546.2	0.2
38	1101 1010	553.750	565.2	0.1	-0.1	18.9	562.0	3.2
39	1101 1001	569.375	585.0	0.1	0.2	19.8	577.8	7.2
40	1101 1000	585.000	592.6	0.0	0.1	7.6	593.6	-1.1
41	1101 0111	600.625	607.1	-0.4	-0.3	14.6	609.4	-2.3
42	1101 0110	616.250	624.6	-0.3	-0.2	17.5	625.3	-0.6
43	1101 0101	631.875	645.6	0.2	0.0	21.0	641.1	4.5
44	1101 0100	647.500	661.3	0.2	0.3	15.6	656.9	4.4
45	1101 0011	663.125	672.8	-0.3	0.1	11.5	672.7	0.1
46	1101 0010	678.750	693.5	-0.3	-0.3	20.6	688.6	4.9
47	1101 0001	694.375	711.8	-0.0	-0.2	18.4	704.4	7.5
48	1101 0000	710.000	724.5	0.2	0.3	12.6	720.2	4.3
49	1100 1111	725.625	735.6	0.3	0.2	11.1	736.0	-0.4
50	1100 1110	741.250	748.4	-0.3	0.0	12.8	751.8	-3.4
51	1100 1101	756.875	772.1	-0.4	-0.2	23.6	767.7	4.4

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 484

1981/11/30 14:12:44 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

HAC TEST S27

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=5)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
52	1100 1100	772.500	783.9	0.4	0.0	11.8	783.5	0.4
53	1100 1011	788.125	798.8	0.3	0.3	15.0	799.3	-0.5
54	1100 1010	803.750	818.4	-0.0	0.2	19.6	815.1	3.3
55	1100 1001	819.375	837.6	-0.3	-0.3	19.1	830.9	6.6
56	1100 1000	835.000	851.1	-0.3	-0.3	13.5	846.8	4.4
57	1100 0111	850.625	859.1	0.3	0.1	8.0	862.6	-3.5
58	1100 0110	866.250	876.8	0.2	0.3	17.7	878.4	-1.6
59	1100 0101	881.875	898.0	-0.3	0.0	21.2	894.2	3.8
60	1100 0100	897.500	915.3	1.5	1.1	17.2	910.1	5.2
61	1100 0011	913.125	924.8	0.0	-0.3	9.6	925.9	-1.0
62	1100 0010	928.750	945.4	0.1	0.2	20.6	941.7	3.7
63	1100 0001	944.375	963.2	0.3	0.2	17.8	957.5	5.7
64	1100 0000	960.000	970.0	-0.4	0.0	6.8	973.3	-3.3
65	1011 1111	975.625	987.7	-0.3	-0.3	17.7	989.2	-1.4
66	1011 1110	991.250	1002.4	0.2	-0.1	14.7	1005.0	-2.6
67	1011 1101	1006.88	1026.8	0.2	0.3	24.4	1020.8	6.0
68	1011 1100	1022.50	1037.5	-0.0	0.2	10.7	1036.6	0.9
69	1011 1011	1038.13	1053.3	-0.3	-0.3	15.8	1052.4	0.8
70	1011 1010	1053.75	1072.6	-0.3	-0.3	19.3	1068.3	4.3
71	1011 1001	1069.38	1092.1	0.3	0.0	19.4	1084.1	8.0
72	1011 1000	1085.00	1095.6	0.2	0.3	3.6	1099.9	-4.3
73	1011 0111	1100.63	1113.5	-0.3	0.1	17.9	1115.7	-2.2
74	1011 0110	1116.25	1131.0	-0.3	-0.2	17.5	1131.6	-0.5
75	1011 0101	1131.88	1152.8	0.0	-0.3	21.8	1147.4	5.5
76	1011 0100	1147.50	1165.7	0.2	0.3	12.9	1163.2	2.5
77	1011 0011	1163.13	1178.4	0.4	0.3	12.7	1179.0	-0.6
78	1011 0010	1178.75	1199.1	-0.3	-0.0	20.7	1194.8	4.3

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 485

1981/11/30 14:12:44 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

HAC TEST S27

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=5)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
79	1011 0001	1194.38	1218.3	-0.4	-0.3	19.1	1210.7	7.6
80	1011 0000	1210.00	1227.0	0.2	0.1	8.8	1226.5	0.6
81	1010 1111	1225.63	1242.6	0.3	0.3	15.5	1242.3	0.3
82	1010 1110	1241.25	1253.9	0.0	0.2	11.3	1258.1	-4.3
83	1010 1101	1256.88	1278.4	-0.3	-0.3	24.5	1273.9	4.4
84	1010 1100	1272.50	1288.8	-0.3	-0.3	10.4	1289.8	-1.0
85	1010 1011	1288.13	1304.2	0.3	0.1	15.4	1305.6	-1.4
86	1010 1010	1303.75	1324.2	0.2	0.2	20.0	1321.4	2.8
87	1010 1001	1319.38	1343.4	-0.3	0.2	19.2	1337.2	6.2
88	1010 1000	1335.00	1352.7	-0.3	-0.3	9.3	1353.1	-0.3
89	1010 0111	1350.63	1364.8	0.1	-0.3	12.0	1368.9	-4.1
90	1010 0110	1366.25	1382.0	0.3	0.2	17.2	1384.7	-2.7
91	1010 0101	1381.88	1403.7	0.3	0.4	21.7	1400.5	3.2
92	1010 0100	1397.50	1422.0	-0.2	0.0	18.3	1416.3	5.7
93	1010 0011	1413.13	1429.9	-0.3	-0.3	7.9	1432.2	-2.3
94	1010 0010	1428.75	1450.3	0.3	-0.0	20.4	1448.0	2.3
95	1010 0001	1444.38	1468.9	0.2	0.3	18.6	1463.8	5.1
96	1010 0000	1460.00	1480.0	-0.0	0.2	11.1	1479.6	0.4
97	1001 1111	1475.63	1495.2	-0.2	-0.2	15.2	1495.4	-0.3
98	1001 1110	1491.25	1505.8	-0.2	-0.3	10.6	1511.3	-5.5
99	1001 1101	1506.88	1530.2	0.2	-0.0	24.4	1527.1	3.1
100	1001 1100	1522.50	1537.5	0.3	0.3	7.2	1542.9	-5.4
101	1001 1011	1538.13	1557.1	-0.4	0.0	19.6	1558.7	-1.6
102	1001 1010	1553.75	1575.9	-0.2	-0.2	18.8	1574.6	1.3
103	1001 1001	1569.38	1595.9	-0.1	-0.3	20.1	1590.4	5.6
104	1001 1000	1585.00	1601.4	0.3	0.2	5.5	1606.2	-4.8

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 486

1981/11/30 14:12:44 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=5)

HAC TEST S27

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
105	1001 0111	1600.63	1617.0	0.3	0.4	15.5	1622.0	-5.1
106	1001 0110	1616.25	1633.9	-0.3	0.0	16.9	1637.8	-3.9
107	1001 0101	1631.88	1656.6	-0.3	-0.3	22.7	1653.7	3.0
108	1001 0100	1647.50	1669.7	0.3	0.0	13.0	1669.5	0.2
109	1001 0011	1663.13	1682.1	0.3	0.4	12.4	1685.3	-3.2
110	1001 0010	1678.75	1701.5	0.0	0.3	19.4	1701.1	0.4
111	1001 0001	1694.38	1721.6	-0.2	-0.3	20.1	1716.9	4.7
112	1001 0000	1710.00	1736.8	-0.3	-0.2	15.2	1732.8	4.0
113	1000 1111	1725.63	1745.9	0.2	0.0	9.1	1748.6	-2.7
114	1000 1110	1741.25	1756.8	0.2	0.3	10.8	1764.4	-7.6
115	1000 1101	1756.88	1781.5	-0.3	-0.0	24.7	1780.2	1.3
116	1000 1100	1772.50	1791.6	-0.2	-0.2	10.1	1796.1	-4.4
117	1000 1011	1788.13	1808.1	0.0	-0.3	16.5	1811.9	-3.8
118	1000 1010	1803.75	1824.2	0.3	0.3	16.1	1827.7	-3.5
119	1000 1001	1819.38	1846.5	0.3	0.3	22.3	1843.5	3.0
120	1000 1000	1835.00	1858.7	-0.2	0.0	12.2	1859.3	-0.6
121	1000 0111	1850.63	1868.4	-0.4	3.6	9.6	1875.2	-6.8
122	1000 0110	1866.25	1884.7	0.2	0.0	16.3	1891.0	-6.3
123	1000 0101	1881.88	1907.2	0.3	0.4	22.5	1906.8	0.4
124	1000 0100	1897.50	1924.4	0.0	0.3	17.2	1922.6	1.8
125	1000 0011	1913.13	1933.3	-0.4	-0.4	8.9	1938.4	-5.2
126	1000 0010	1928.75	1952.9	-0.3	-0.2	19.7	1954.3	-1.3
127	1000 0001	1944.38	1972.0	0.3	0.1	19.1	1970.1	1.9
128	1000 0000	1960.00	1982.0	0.4	0.3	10.0	1985.9	-3.9
129	0111 1111	1975.63	1997.3	-0.4	0.0	15.3	2001.7	-4.4
130	0111 1110	1991.25	2013.6	-0.3	-0.3	16.3	2017.6	-3.9

ORIGINAL PAGE IS OF POOR QUALITY

1981/11/30 14:12:44 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=5)

HAC TEST 527 NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
131	0111 1101	2006.88	2037.8	-0.0	-0.3	24.1	2033.4	4.4
132	0111 1100	2022.50	2050.5	0.3	0.2	12.7	2049.2	1.3
133	0111 1011	2038.13	2062.3	0.4	0.4	11.7	2065.0	-2.8
134	0111 1010	2053.75	2084.6	-0.3	-0.0	22.3	2080.8	3.8
135	0111 1001	2069.38	2103.7	-0.3	-0.2	19.1	2096.7	7.0
136	0111 1000	2085.00	2107.0	0.2	-0.1	3.3	2112.5	-5.5
137	0111 0111	2100.63	2122.6	0.4	0.1	15.7	2128.3	-5.7
138	0111 0110	2116.25	2141.6	-0.0	0.2	19.0	2144.1	-2.5
139	0111 0101	2131.88	2163.4	-0.3	-0.3	21.7	2159.9	3.4
140	0111 0100	2147.50	2179.8	-0.2	-0.2	16.5	2175.8	4.1
141	0111 0011	2163.13	2187.9	0.3	0.1	8.0	2191.6	-3.7
142	0111 0010	2178.75	2212.8	1.3	1.4	24.9	2207.4	5.4
143	0111 0001	2194.38	2229.5	-0.3	0.1	16.7	2223.2	6.3
144	0111 0000	2210.00	2238.3	-0.2	-0.3	8.8	2239.1	-0.7
145	0110 1111	2225.63	2248.9	0.1	-0.4	10.6	2254.9	-6.0
146	0110 1110	2241.25	2265.0	0.2	0.2	16.1	2270.7	-5.7
147	0110 1101	2256.88	2288.8	0.3	0.3	23.8	2286.5	2.3
148	0110 1100	2272.50	2300.8	-0.3	0.1	12.0	2302.3	-1.5
149	0110 1011	2288.13	2314.1	-0.3	-0.3	13.2	2318.2	-4.1
150	0110 1010	2303.75	2336.3	0.2	0.1	22.2	2334.0	2.3
151	0110 1001	2319.38	2354.5	0.4	0.4	18.2	2349.8	4.7
152	0110 1000	2335.00	2363.0	-0.1	0.2	8.5	2365.6	-2.7
153	0110 0111	2350.63	2374.4	-0.4	-0.4	11.4	2381.4	-7.1
154	0110 0110	2366.25	2393.2	-0.2	-0.1	18.8	2397.3	-4.1
155	0110 0101	2381.88	2414.3	0.3	0.0	21.1	2413.1	1.2
156	0110 0100	2397.50	2434.3	0.3	0.3	20.0	2428.9	5.4
157	0110 0011	2413.13	2439.5	-0.4	0.0	5.2	2444.7	-5.2

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 488

1981/11/30 14:12:44 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=5)

HAC TEST S27

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
158	0110 0010	2428.75	2461.7	-0.2	-0.3	22.2	2460.6	1.2
159	0110 0001	2444.38	2480.4	0.1	-0.2	18.7	2476.4	4.1
160	0110 0000	2460.00	2486.7	-2.9	0.3	6.3	2492.2	-5.5
161	0101 1111	2475.63	2504.6	2.7	0.3	17.8	2508.0	-3.4
162	0101 1110	2491.25	2517.1	-0.2	0.0	12.5	2523.8	-6.8
163	0101 1101	2506.88	2541.4	-0.3	-0.3	24.3	2539.7	1.8
164	0101 1100	2522.50	2555.0	0.2	0.0	13.6	2555.5	-0.5
165	0101 1011	2538.13	2566.5	0.3	0.3	11.5	2571.3	-4.8
166	0101 1010	2553.75	2588.1	-0.0	0.2	21.6	2587.1	1.0
167	0101 1001	2569.38	2607.8	-0.3	-0.3	19.7	2602.9	4.8
168	0101 1000	2585.00	2613.1	-0.3	-0.3	5.4	2618.8	-5.6
169	0101 0111	2600.63	2626.8	0.3	-0.1	13.7	2634.6	-7.8
170	0101 0110	2616.25	2644.9	0.3	0.4	18.1	2650.4	-5.5
171	0101 0101	2631.88	2668.1	-0.2	0.0	23.2	2666.2	1.8
172	0101 0100	2647.50	2683.6	-0.2	-0.2	15.6	2682.1	1.6
173	0101 0011	2663.13	2692.4	-0.1	-0.4	8.7	2697.9	-5.5
174	0101 0010	2678.75	2713.2	0.2	0.2	20.8	2713.7	-0.5
175	0101 0001	2694.38	2733.0	0.4	0.3	19.8	2729.5	3.4
176	0101 0000	2710.00	2746.4	-0.3	-0.0	13.4	2745.3	1.0
177	0100 1111	2725.63	2756.2	1.4	1.4	9.9	2761.2	-4.9
178	0100 1110	2741.25	2768.3	0.2	-0.0	12.0	2777.0	-8.7
179	0100 1101	2756.88	2792.5	0.3	0.4	24.2	2792.8	-0.3
180	0100 1100	2772.50	2803.8	0.1	0.4	11.3	2808.6	-4.8
181	0100 1011	2788.13	2818.3	-0.4	-0.4	14.4	2824.4	-6.2
182	0100 1010	2803.75	2840.0	-0.9	-0.2	21.7	2840.3	-0.3
183	0100 1001	2819.38	2858.7	0.5	0.5	18.7	2856.1	2.6

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 489
1981/11/30 14:12:44 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

HAC TEST 527

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=5) 80/30/81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
184	0100 1000	2835.00	2870.2	0.3	0.3	11.5	2871.9	-1.7
185	0100 0111	2850.63	2878.7	-0.4	0.0	8.5	2887.7	-9.0
186	0100 0110	2866.25	2896.8	-0.3	-0.3	18.1	2903.6	-6.8
187	0100 0101	2881.88	2919.6	0.0	-0.3	22.8	2919.4	0.2
188	0100 0100	2897.50	2939.1	0.3	0.4	19.6	2935.2	3.9
189	0100 0011	2913.13	2943.4	0.4	0.4	4.3	2951.0	-7.6
190	0100 0010	2928.75	2965.2	-0.3	-0.3	21.8	2966.8	-1.7
191	0100 0001	2944.38	2984.3	-0.0	0.0	19.1	2982.7	1.6
192	0100 0000	2960.00	2992.0	0.4	0.1	7.7	2998.5	-6.5
193	0011 1111	2975.63	3007.4	0.3	0.3	15.4	3014.3	-6.9
194	0011 1110	2991.25	3022.8	-0.1	0.2	15.4	3030.1	-7.4
195	0011 1101	3006.88	3047.6	-0.4	-0.3	24.9	3046.0	1.7
196	0011 1100	3022.50	3059.9	-0.2	-0.2	12.2	3061.8	-1.9
197	0011 1011	3038.13	3072.5	0.3	0.4	12.6	3077.6	-5.1
198	0011 1010	3053.75	3095.1	0.2	0.3	22.5	3093.4	1.7
199	0011 1001	3069.38	3115.5	-0.4	0.0	20.5	3109.2	6.3
200	0011 1000	3085.00	3116.3	-0.3	-0.4	0.8	3125.1	-8.7
201	0011 0111	3100.63	3133.6	-0.0	-0.4	17.3	3140.9	-7.3
202	0011 0110	3116.25	3151.7	0.2	0.2	18.0	3156.7	-5.0
203	0011 0101	3131.88	3174.8	0.3	0.4	23.1	3172.5	2.2
204	0011 0100	3147.50	3189.8	-0.3	-0.3	15.1	3188.3	1.5
205	0011 0011	3163.13	3199.2	-0.4	-0.4	9.4	3204.2	-5.0
206	0011 0010	3178.75	3224.5	0.1	-0.0	25.3	3220.0	4.5
207	0011 0001	3194.38	3240.6	0.3	0.3	16.1	3235.8	4.3
208	0011 0000	3210.00	3251.1	0.0	0.3	10.5	3251.6	-0.5
209	0010 1111	3225.63	3260.7	-0.3	-0.3	9.5	3267.5	-6.8

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 ,PAGE 490

1981/11/30 14:12:44 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.4.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=5)

HAC TFST S27

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
210	0010 1110	3241.25	3276.2	-0.3	-0.3	15.5	3283.3	-7.1
211	0010 1101	3256.88	3300.5	0.2	0.3	24.3	3299.1	1.4
212	0010 1100	3272.50	3310.9	0.2	0.2	10.4	3314.9	-4.0
213	0010 1011	3288.13	3326.2	-0.4	0.1	15.3	3330.7	-4.5
214	0010 1010	3303.75	3348.8	-0.3	-0.2	22.5	3346.6	2.2
215	0010 1001	3319.38	3369.0	-0.0	-0.3	20.2	3362.4	6.6
216	0010 1000	3335.00	3374.8	0.4	4.6	5.8	3378.2	-3.4
217	0010 0111	3350.63	3386.8	0.6	0.8	12.0	3394.0	-7.3
218	0010 0110	3366.25	3405.5	-0.4	0.0	18.8	3409.8	-4.3
219	0010 0101	3381.88	3428.7	-0.6	-0.5	23.2	3425.7	3.1
220	0010 0100	3397.50	3446.7	0.3	0.0	18.0	3441.5	5.2
221	0010 0011	3413.13	3452.1	0.9	1.0	5.3	3457.3	-5.3
222	0010 0010	3428.75	3479.1	-0.1	0.3	27.1	3473.1	6.0
223	0010 0001	3444.38	3494.6	-0.4	-0.4	15.5	3489.0	5.7
224	0010 0000	3460.00	3501.8	-0.3	-0.3	7.1	3504.8	-3.0
225	0001 1111	3475.63	3518.7	0.1	-0.1	17.0	3520.6	-1.8
226	0001 1110	3491.25	3530.6	0.2	0.3	11.9	3536.4	-5.8
227	0001 1101	3506.88	3556.3	-0.5	0.0	25.6	3552.2	4.1
228	0001 1100	3522.50	3569.2	-0.2	-0.3	12.9	3568.1	1.2
229	0001 1011	3538.13	3582.1	0.0	-0.4	12.8	3583.9	-1.8
230	0001 1010	3553.75	3603.8	0.3	0.3	21.7	3599.7	4.1
231	0001 1001	3569.38	3624.3	0.3	0.4	20.5	3615.5	8.8
232	0001 1000	3585.00	3627.6	-0.4	-0.3	3.4	3631.3	-3.7
233	0001 0111	3600.63	3643.9	-0.4	-0.3	16.2	3647.2	-3.3
234	0001 0110	3616.25	3660.7	0.2	0.1	16.8	3663.0	-2.3
235	0001 0101	3631.88	3684.3	0.4	0.5	23.6	3678.8	5.5
236	0001 0100	3647.50	3699.1	0.0	0.3	14.8	3694.6	4.5

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 491

1981/11/30 14:12:44 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-B A/D THRESHOLD TEST (BAND= 3, SENSOR=5)

HAC TEST 527

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
237	0001 0011	3663.13	3709.5	-0.4	-0.4	10.3	3710.5	-1.0
238	0001 0010	3678.75	3730.0	-0.4	-0.3	20.6	3726.3	3.8
239	0001 0001	3694.38	3750.7	0.1	0.0	20.7	3742.1	8.6
240	0001 0000	3710.00	3766.4	0.2	0.3	15.6	3757.9	8.5
241	0000 1111	3725.63	3774.1	-0.3	0.1	7.8	3773.7	0.4
242	0000 1110	3741.25	3786.3	-0.4	-0.3	12.1	3789.6	-3.3
243	0000 1101	3756.88	3811.7	-0.2	-0.4	25.4	3805.4	6.3
244	0000 1100	3772.50	3821.3	0.2	0.4	9.6	3821.2	0.1
245	0000 1011	3788.13	3837.2	0.4	0.4	15.9	3837.0	0.2
246	0000 1010	3803.75	3854.8	-0.4	-0.3	17.6	3852.8	2.0
247	0000 1001	3819.38	3880.3	-0.6	-0.5	25.4	3868.7	11.6
248	0000 1000	3835.00	3889.3	0.3	-0.1	9.0	3884.5	4.8
249	0000 0111	3850.63	3899.2	0.2	0.4	9.9	3900.3	-1.1
250	0000 0110	3866.25	3916.5	-0.3	0.2	17.3	3916.1	0.4
251	0000 0101	3881.88	3940.5	-0.5	-0.3	24.0	3932.0	8.5
252	0000 0100	3897.50	3959.6	-0.4	-0.3	19.1	3947.8	11.8
253	0000 0011	3913.13	3965.0	0.3	0.4	5.4	3963.6	1.4
254	0000 0010	3928.75	3985.9	0.2	0.3	20.9	3979.4	6.5
255	0000 0001	3944.38	4007.0	-0.5	0.0	21.0	3995.2	11.7

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 492
1981/11/30 14:19:06 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

HAC TEST S27

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=6)

S U M M A R Y

CHECK 1) RMS ERROR, 2) THRESHOLD INCREMENT(+/- 0.0 <= THRH INC <= 31.2)
THE REMAINING DATA ARE FOR INFORMATION ONLY

BEST FIT STRAIGHT LINE IS: Y =15.843X -41.3MV

DEVIATION OF SLOPE FROM IDEAL IS: 1.395%
OFFSET IS:-41.3MV
COEFFICIENT OF DETERMINATION IS: R**2= .99998600
ANALOG INPUT DURING DC RESTORE IS:64.5MV

RMS ERROR = 4.386MV REQMT: RMS ERROR <=7.812MV

THRESHOLD INCREMENT MEASUREMENT

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
26.1MV	222	15.913MV	0.8MV	200	5.517MV

LOWER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
0.8MV	14	-0.030MV	-0.5MV	247	.230MV

UPPER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
7.1MV	128	0.067MV	-0.8MV	144	.593MV

TEST PASSED

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 493

1981/11/30 14:19:20 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

HAC TEST S27

NOV 30 '81

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=6)

THE FOLLOWING DATA ARE FOR INFORMATION ONLY

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
1	1111 1111	-24.375	-30.0	0.0	0.3		-25.5	-4.6
2	1111 1110	-8.750	-16.8	0.2	0.2	13.2	-9.6	-7.2
3	1111 1101	6.875	6.9	-0.4	-0.0	23.7	6.2	0.7
4	1111 1100	22.500	19.2	-0.2	-0.2	12.3	22.0	-2.8
5	1111 1011	38.125	34.5	0.2	0.0	15.2	37.9	-3.4
6	1111 1010	53.750	53.8	0.1	0.2	19.3	53.7	0.1
7	1111 1001	69.375	73.5	-0.0	0.2	19.7	69.6	3.9
8	1111 1000	85.000	78.7	-0.2	-0.3	5.2	85.4	-6.7
9	1111 0111	100.625	95.8	-0.3	-0.3	17.1	101.3	-5.4
10	1111 0110	116.250	113.3	0.1	0.0	17.5	117.1	-3.8
11	1111 0101	131.875	134.1	0.3	0.3	20.8	132.9	1.2
12	1111 0100	147.500	149.5	0.0	0.2	15.4	148.8	0.7
13	1111 0011	163.125	162.1	-0.2	-0.2	12.6	164.6	-2.6
14	1111 0010	178.750	183.5	0.8	-0.5	21.4	180.5	3.0
15	1111 0001	194.375	201.0	0.1	0.2	17.5	196.3	4.6
16	1111 0000	210.000	210.2	0.3	0.2	9.3	212.2	-1.9
17	1110 1111	225.625	225.0	-0.3	0.0	14.8	228.0	-3.0
18	1110 1110	241.250	238.3	-0.3	-0.2	13.3	243.8	-5.5
19	1110 1101	256.875	261.5	0.2	-0.0	23.2	259.7	1.8
20	1110 1100	272.500	275.0	0.2	0.2	13.5	275.5	-0.6
21	1110 1011	288.125	289.2	-0.0	0.3	14.2	291.4	-2.2
22	1110 1010	303.750	309.3	-0.3	-0.2	20.0	307.2	2.0
23	1110 1001	319.375	328.3	-0.2	-0.2	19.0	323.1	5.3
24	1110 1000	335.000	338.1	0.1	-0.1	9.8	338.9	-0.8
25	1110 0111	350.625	350.2	0.2	2.3	12.1	354.7	-4.6

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 494

1981/11/30 14:19:20 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

HAC TEST S27

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=6)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
26	1110 0110	366.250	368.2	-0.3	-0.0	18.0	370.6	-2.4
27	1110 0101	381.875	389.0	-0.3	-0.2	20.8	386.4	2.5
28	1110 0100	397.500	408.8	-0.1	-0.2	19.8	402.3	6.5
29	1110 0011	413.125	416.3	0.2	0.2	7.5	418.1	-1.8
30	1110 0010	428.750	437.1	0.2	0.2	20.8	434.0	3.1
31	1110 0001	444.375	455.3	-0.2	0.1	18.2	449.8	5.5
32	1110 0000	460.000	460.7	-0.2	-0.1	5.4	465.7	-4.9
33	1101 1111	475.625	480.7	0.1	0.1	20.0	481.5	-0.8
34	1101 1110	491.250	493.0	0.1	0.2	12.3	497.3	-4.3
35	1101 1101	506.875	517.6	-0.1	0.3	24.6	513.2	4.4
36	1101 1100	522.500	529.5	-0.2	-0.2	11.8	529.0	0.4
37	1101 1011	538.125	545.1	-0.3	-0.3	15.6	544.9	0.2
38	1101 1010	553.750	563.2	0.2	0.0	18.1	560.7	2.5
39	1101 1001	569.375	583.8	0.2	0.3	20.6	576.6	7.2
40	1101 1000	585.000	591.0	-0.3	-0.0	7.2	592.4	-1.4
41	1101 0111	600.625	608.1	-0.2	-0.2	17.1	608.2	-0.1
42	1101 0110	616.250	622.7	-0.1	-0.2	14.6	624.1	-1.3
43	1101 0101	631.875	644.3	0.2	0.3	21.5	639.9	4.4
44	1101 0100	647.500	659.5	0.0	0.2	15.2	655.8	3.7
45	1101 0011	663.125	671.7	-0.3	0.0	12.2	671.6	0.1
46	1101 0010	678.750	691.9	-0.3	-0.2	20.2	687.5	4.4
47	1101 0001	694.375	710.2	0.1	0.1	18.3	703.3	6.9
48	1101 0000	710.000	723.6	0.2	0.2	13.4	719.1	4.5
49	1100 1111	725.625	734.2	-0.0	0.2	10.6	735.0	-0.8
50	1100 1110	741.250	746.8	-0.2	-0.2	12.6	750.8	-4.1
51	1100 1101	756.875	771.2	-0.3	-0.3	24.5	766.7	4.6

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 495

1981/11/30 14:19:20 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=6)

HAC TEST S27 NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
52	1100 1100	772.500	783.3	0.1	0.0	12.0	782.5	0.8
53	1100 1011	788.125	798.0	0.2	0.3	14.7	798.4	-0.3
54	1100 1010	803.750	817.2	-0.2	0.0	19.1	814.2	3.0
55	1100 1001	819.375	836.9	-0.3	-0.2	19.8	830.0	6.9
56	1100 1000	835.000	849.6	0.0	-0.3	12.7	845.9	3.8
57	1100 0111	850.625	860.7	0.1	0.1	11.0	861.7	-1.1
58	1100 0110	866.250	875.3	0.2	0.2	14.7	877.6	-2.2
59	1100 0101	881.875	897.1	-0.2	0.0	21.7	893.4	3.7
60	1100 0100	897.500	915.9	-0.1	-0.0	18.8	909.3	6.6
61	1100 0011	913.125	923.9	0.2	-0.0	8.0	925.1	-1.2
62	1100 0010	928.750	943.7	0.2	0.3	19.8	940.9	2.8
63	1100 0001	944.375	962.4	-0.1	0.1	18.7	956.8	5.6
64	1100 0000	960.000	970.0	-0.2	-0.2	7.6	972.6	-2.7
65	1011 1111	975.625	990.1	-0.2	-0.2	20.2	988.5	1.7
66	1011 1110	991.250	1001.2	0.2	-0.0	11.1	1004.3	-3.1
67	1011 1101	1006.88	1025.6	0.3	0.4	24.3	1020.2	5.4
68	1011 1100	1022.50	1036.9	-0.2	0.0	11.3	1036.0	0.9
69	1011 1011	1038.13	1052.9	-0.3	-0.2	16.0	1051.8	1.0
70	1011 1010	1053.75	1071.7	0.0	-0.2	18.8	1067.7	4.0
71	1011 1001	1069.38	1092.0	0.2	0.2	20.3	1083.5	8.5
72	1011 1000	1085.00	1094.7	0.2	0.2	2.7	1099.4	-4.6
73	1011 0111	1100.63	1116.5	-0.2	0.0	21.8	1115.2	1.3
74	1011 0110	1116.25	1130.0	-0.2	-0.2	13.5	1131.1	-1.1
75	1011 0101	1131.88	1152.1	0.2	0.0	22.1	1146.9	5.2
76	1011 0100	1147.50	1165.4	0.2	0.3	13.3	1162.7	2.6
77	1011 0011	1163.13	1178.4	0.0	0.1	13.0	1178.6	-0.2
78	1011 0010	1178.75	1201.0	-0.3	-0.3	22.6	1194.4	6.5

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 496

1981/11/30 14:19:20 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=6)

HAC TEST 527

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
79	1011 0001	1194.38	1217.8	-0.1	-0.2	16.8	1210.3	7.5
80	1011 0000	1210.00	1229.4	0.2	-0.0	11.6	1226.1	3.3
81	1010 1111	1225.63	1241.7	0.2	0.2	12.2	1242.0	-0.3
82	1010 1110	1241.25	1253.2	-0.1	0.0	11.5	1257.8	-4.6
83	1010 1101	1256.88	1277.4	-0.3	-0.2	24.1	1273.6	3.7
84	1010 1100	1272.50	1288.7	0.0	-0.2	11.3	1289.5	-0.8
85	1010 1011	1288.13	1304.2	0.3	0.3	15.5	1305.3	-1.1
86	1010 1010	1303.75	1323.5	0.2	0.2	19.3	1321.2	2.3
87	1010 1001	1319.38	1343.8	-0.2	-0.0	20.3	1337.0	6.8
88	1010 1000	1335.00	1351.9	-0.2	-0.1	8.1	1352.9	-0.9
89	1010 0111	1350.63	1367.7	0.2	-0.1	15.8	1368.7	-1.0
90	1010 0110	1366.25	1381.3	0.2	0.2	13.6	1384.5	-3.2
91	1010 0101	1381.88	1403.4	0.0	0.3	22.0	1400.4	3.0
92	1010 0100	1397.50	1421.2	-0.2	-0.2	17.8	1416.2	5.0
93	1010 0011	1413.13	1429.9	-0.3	-0.3	8.7	1432.1	-2.1
94	1010 0010	1428.75	1449.9	0.2	-0.0	19.9	1447.9	2.0
95	1010 0001	1444.38	1468.9	0.1	0.1	19.0	1463.8	5.1
96	1010 0000	1460.00	1478.7	-0.3	0.1	9.8	1479.6	-0.9
97	1001 1111	1475.63	1494.7	-0.2	-0.2	16.0	1495.4	-0.7
98	1001 1110	1491.25	1505.2	0.0	-0.2	10.4	1511.3	-6.1
99	1001 1101	1506.88	1529.7	0.2	0.2	24.5	1527.1	2.6
100	1001 1100	1522.50	1541.2	0.2	0.1	11.5	1543.0	-1.7
101	1001 1011	1538.13	1557.3	-0.3	-0.0	16.1	1558.8	-1.5
102	1001 1010	1553.75	1575.5	-0.2	-0.2	18.1	1574.7	0.8
103	1001 1001	1569.38	1596.5	0.3	-0.0	21.1	1590.5	6.0
104	1001 1000	1585.00	1601.1	0.2	0.2	4.6	1606.3	-5.3

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 497

1981/11/30 14:19:20 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=6)

HAC TEST S27 NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
105	1001 0111	1600.63	1620.5	0.0	0.2	19.4	1622.2	-1.7
106	1001 0110	1616.25	1633.5	-0.3	-0.3	13.0	1638.0	-4.5
107	1001 0101	1631.88	1656.3	-0.2	-0.2	22.8	1653.9	2.5
108	1001 0100	1647.50	1669.3	0.2	0.1	13.0	1669.7	-0.4
109	1001 0011	1663.13	1682.5	0.2	0.2	13.2	1685.6	-3.0
110	1001 0010	1678.75	1701.6	-0.2	-0.0	19.1	1701.4	0.2
111	1001 0001	1694.38	1721.7	-0.3	-0.2	20.1	1717.2	4.5
112	1001 0000	1710.00	1737.3	-0.0	-0.1	15.6	1733.1	4.3
113	1000 1111	1725.63	1745.8	0.2	0.2	8.4	1748.9	-3.1
114	1000 1110	1741.25	1756.4	0.3	0.2	10.6	1764.8	-8.4
115	1000 1101	1756.88	1781.0	-0.2	0.0	24.6	1780.6	0.4
116	1000 1100	1772.50	1792.2	-0.2	-0.2	11.1	1796.5	-4.3
117	1000 1011	1788.13	1808.3	0.3	0.0	16.2	1812.3	-4.0
118	1000 1010	1803.75	1826.8	0.1	0.2	18.4	1828.1	-1.4
119	1000 1001	1819.38	1847.8	-0.0	0.2	21.0	1844.0	3.8
120	1000 1000	1835.00	1859.1	-0.1	-0.2	11.3	1859.8	-0.8
121	1000 0111	1850.63	1871.7	-0.5	-0.4	12.6	1875.7	-4.0
122	1000 0110	1866.25	1884.4	0.2	-0.0	12.8	1891.5	-7.1
123	1000 0101	1881.88	1907.1	0.3	0.3	22.6	1907.4	-0.3
124	1000 0100	1897.50	1925.5	-0.2	0.0	18.5	1923.2	2.3
125	1000 0011	1913.13	1933.8	-0.2	-0.2	8.2	1939.0	-5.2
126	1000 0010	1928.75	1953.0	-0.1	-0.2	19.2	1954.9	-1.9
127	1000 0001	1944.38	1972.5	0.1	0.1	19.5	1970.7	1.7
128	1000 0000	1960.00	1983.8	0.4	7.1	11.3	1986.6	-2.8
129	0111 1111	1975.63	2002.3	-0.4	-0.1	18.5	2002.4	-0.2
130	0111 1110	1991.25	2013.7	-0.2	-0.2	11.4	2018.3	-4.6

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 498

1981/11/30 14:19:20 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=6)

HAC TEST S27

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
131	0111 1101	2006.88	2037.5	0.2	0.1	23.8	2034.1	3.4
132	0111 1100	2022.50	2050.9	0.3	0.2	13.4	2049.9	0.9
133	0111 1011	2038.13	2063.2	0.1	0.3	12.3	2065.8	-2.6
134	0111 1010	2053.75	2084.8	-0.2	-0.3	21.6	2081.6	3.2
135	0111 1001	2069.38	2104.0	-0.3	-0.2	19.2	2097.5	6.6
136	0111 1000	2085.00	2107.2	0.2	-0.0	3.2	2113.3	-6.1
137	0111 0111	2100.63	2123.5	0.2	0.3	16.3	2129.2	-5.7
138	0111 0110	2116.25	2142.1	-0.3	-0.0	18.6	2145.0	-2.9
139	0111 0101	2131.88	2164.3	-0.2	-0.1	22.2	2160.8	3.5
140	0111 0100	2147.50	2180.4	-0.0	-0.1	16.1	2176.7	3.7
141	0111 0011	2163.13	2188.9	0.1	0.1	8.5	2192.5	-3.6
142	0111 0010	2178.75	2214.2	0.1	0.2	25.3	2208.4	5.8
143	0111 0001	2194.38	2230.3	-0.2	0.0	16.1	2224.2	6.0
144	0111 0000	2210.00	2239.3	-0.4	-0.8	9.1	2240.1	-0.7
145	0110 1111	2225.63	2253.8	0.2	-0.1	14.4	2255.9	-2.1
146	0110 1110	2241.25	2265.2	0.2	0.2	11.4	2271.7	-6.6
147	0110 1101	2256.88	2289.2	-0.1	0.2	24.0	2287.6	1.6
148	0110 1100	2272.50	2301.8	-0.2	-0.1	12.6	2303.4	-1.6
149	0110 1011	2288.13	2315.0	-0.0	-0.1	13.1	2319.3	-4.3
150	0110 1010	2303.75	2336.7	0.3	0.0	21.8	2335.1	1.6
151	0110 1001	2319.38	2355.1	0.4	0.5	18.4	2351.0	4.1
152	0110 1000	2335.00	2363.8	-0.3	0.0	8.7	2366.8	-3.0
153	0110 0111	2350.63	2375.6	-0.4	-0.3	11.8	2382.6	-7.0
154	0110 0110	2366.25	2393.6	0.0	-0.2	18.0	2398.5	-4.8
155	0110 0101	2381.88	2415.6	0.2	0.1	22.0	2414.3	1.3
156	0110 0100	2397.50	2435.4	0.1	0.1	19.8	2430.2	5.2
157	0110 0011	2413.13	2440.6	-0.3	-0.1	5.2	2446.0	-5.4

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 499

1981/11/30 14:19:20 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-B A/D THRESHOLD TEST (BAND= 3, SENSOR=6)

HAC TEST 527

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
158	0110 0010	2428.75	2465.6	-0.3	-0.2	24.9	2461.9	3.7
159	0110 0001	2444.38	2481.3	0.2	0.1	15.7	2477.7	3.6
160	0110 0000	2460.00	2484.3	0.1	0.4	3.0	2493.5	-9.2
161	0101 1111	2475.63	2506.6	0.0	0.2	22.3	2509.4	-2.8
162	0101 1110	2491.25	2517.6	-0.2	-0.3	11.0	2525.2	-7.6
163	0101 1101	2506.88	2542.1	-0.3	-0.3	24.5	2541.1	1.0
164	0101 1100	2522.50	2556.0	0.2	-0.1	13.9	2556.9	-0.9
165	0101 1011	2538.13	2567.9	0.2	0.2	11.9	2572.8	-4.8
166	0101 1010	2553.75	2588.9	-0.3	-0.0	21.0	2588.6	0.3
167	0101 1001	2569.38	2608.7	-0.4	-0.3	19.8	2604.4	4.3
168	0101 1000	2585.00	2614.1	-0.0	-0.3	5.4	2620.3	-6.1
169	0101 0111	2600.63	2633.3	0.2	0.2	19.1	2636.1	-2.9
170	0101 0110	2616.25	2645.8	-0.1	0.0	12.5	2652.0	-6.2
171	0101 0101	2631.88	2668.7	-0.2	0.1	22.9	2667.8	0.9
172	0101 0100	2647.50	2684.8	-0.2	-0.1	16.0	2683.7	1.1
173	0101 0011	2663.13	2693.5	0.2	0.0	8.7	2699.5	-6.0
174	0101 0010	2678.75	2718.1	0.1	0.1	24.6	2715.3	2.8
175	0101 0001	2694.38	2734.6	-0.1	0.2	16.5	2731.2	3.4
176	0101 0000	2710.00	2748.1	-0.3	-0.2	13.4	2747.0	1.0
177	0100 1111	2725.63	2758.4	-0.2	-0.2	10.3	2762.9	-4.5
178	0100 1110	2741.25	2769.1	0.2	-0.1	10.6	2778.7	-9.7
179	0100 1101	2756.88	2793.5	0.3	0.3	24.4	2794.6	-1.1
180	0100 1100	2772.50	2805.9	-0.3	-0.0	12.5	2810.4	-4.5
181	0100 1011	2788.13	2819.9	-0.3	-0.3	14.0	2826.2	-6.3
182	0100 1010	2803.75	2841.0	-0.0	-0.2	21.1	2842.1	-1.1
183	0100 1001	2819.38	2860.9	0.2	0.2	19.9	2857.9	3.0

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 500

1981/11/30 14:19:20 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=6)

HAC TEST 527

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
184	0100 1000	2835.00	2871.5	0.1	0.2	10.6	2873.8	-2.2
185	0100 0111	2850.63	2885.0	-0.2	0.0	13.5	2889.6	-4.6
186	0100 0110	2866.25	2897.7	-0.3	-0.3	12.7	2905.5	-7.8
187	0100 0101	2881.88	2920.1	0.3	-0.1	22.4	2921.3	-1.2
188	0100 0100	2897.50	2940.1	0.2	0.2	20.0	2937.1	2.9
189	0100 0011	2913.13	2945.3	0.0	0.4	5.2	2953.0	-7.7
190	0100 0010	2928.75	2966.4	-0.3	-0.2	21.1	2968.8	-2.4
191	0100 0001	2944.38	2986.4	-0.1	-0.1	20.0	2984.7	1.7
192	0100 0000	2960.00	2994.4	0.2	0.2	8.0	3000.5	-6.1
193	0011 1111	2975.63	3011.8	0.1	2.1	17.4	3016.4	-4.6
194	0011 1110	2991.25	3024.2	-0.3	0.0	12.3	3032.2	-8.1
195	0011 1101	3006.88	3048.9	-0.3	-0.2	24.8	3048.0	0.9
196	0011 1100	3022.50	3062.2	0.0	-0.4	13.3	3063.9	-1.6
197	0011 1011	3038.13	3074.6	0.3	0.2	12.3	3079.7	-5.1
198	0011 1010	3053.75	30[illegible]5.3	0.2	0.2	21.7	3095.6	0.7
199	0011 1001	3069.38	31[illegible]6.8	-0.3	-0.2	20.5	3111.4	5.4
200	0011 1000	3085.00	3117.6	-0.2	-0.2	0.8	3127.3	-9.6
201	0011 0111	3100.63	3135.6	0.2	0.1	18.0	3143.1	-7.5
202	0011 0110	3116.25	3153.0	0.2	0.3	17.4	3158.9	-5.9
203	0011 0101	3131.88	3176.2	-0.0	0.3	23.1	3174.8	1.4
204	0011 0100	3147.50	3191.3	-0.1	-0.1	15.1	3190.6	0.7
205	0011 0011	3163.13	3201.3	-0.3	-0.3	10.0	3206.5	-5.1
206	0011 0010	3178.75	3226.0	0.1	0.3	24.7	3222.3	3.7
207	0011 0001	3194.38	3243.1	0.1	0.2	17.0	3238.2	4.9
208	0011 0000	3210.00	3255.4	-0.2	0.1	12.3	3254.0	1.3
209	0010 1111	3225.63	3265.3	-0.3	-0.2	9.9	3269.8	-4.6

ORIGINAL PAGE IS OF POOR QUALITY

HS-206 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 501

1981/11/30 14:19:20 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=6)

HAC TEST 527 NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
210	0010 1110	3241.25	3277.7	-0.1	-0.3	12.4	3285.7	-8.0
211	0010 1101	3256.88	3302.1	0.3	0.3	24.4	3301.5	0.6
212	0010 1100	3272.50	3313.2	0.3	0.4	11.1	3317.4	-4.2
213	0010 1011	3288.13	3328.5	-0.3	-0.3	15.3	3333.2	-4.7
214	0010 1010	3303.75	3350.2	-0.3	-0.2	21.7	3349.1	1.2
215	0010 1001	3319.38	3370.3	0.1	0.0	20.0	3364.9	5.4
216	0010 1000	3335.00	3381.1	0.2	0.2	10.8	3380.7	0.3
217	0010 0111	3350.63	3389.4	-0.1	0.2	8.3	3396.6	-7.2
218	0010 0110	3366.25	3407.1	-0.3	-0.2	17.7	3412.4	-5.3
219	0010 0101	3381.88	3430.3	-0.3	-0.2	23.2	3428.3	2.0
220	0010 0100	3397.50	3449.0	0.2	0.3	18.7	3444.1	4.9
221	0010 0011	3413.13	3455.1	0.3	0.3	6.0	3460.0	-4.9
222	0010 0010	3428.75	3481.2	-0.4	0.0	26.1	3475.8	5.4
223	0010 0001	3444.38	3497.5	-0.4	-0.3	16.3	3491.6	5.8
224	0010 0000	3460.00	3503.7	0.0	-0.3	6.2	3507.5	-3.8
225	0001 1111	3475.63	3520.6	0.2	0.2	16.9	3523.3	-2.7
226	0001 1110	3491.25	3532.4	0.2	0.3	11.8	3539.2	-6.8
227	0001 1101	3506.88	3558.2	-0.4	-0.1	25.8	3555.0	3.2
228	0001 1100	3522.50	3571.8	-0.3	-0.3	13.6	3570.9	1.0
229	0001 1011	3538.13	3584.5	0.3	-0.1	12.6	3586.7	-2.2
230	0001 1010	3553.75	3605.7	0.2	0.4	21.2	3602.5	3.1
231	0001 1001	3569.38	3626.4	-0.1	0.3	20.7	3618.4	8.0
232	0001 1000	3585.00	3629.6	-0.1	-0.2	3.2	3634.2	-4.6
233	0001 0111	3600.63	3651.4	-0.4	-0.3	21.8	3650.1	1.3
234	0001 0110	3616.25	3662.8	0.2	0.3	11.3	3665.9	-3.2
235	0001 0101	3631.88	3686.5	0.1	0.3	23.7	3681.8	4.7
236	0001 0100	3647.50	3701.8	-0.3	-0.0	15.3	3697.6	4.2

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 502
1981/11/30 14:19:20 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

HAC TEST S27

3.5.3.5-B A/D THRESHOLD TEST (BAND= 3, SENSOR=6)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
237	0001 0011	3663.13	3712.3	-0.4	-0.3	10.5	3713.4	-1.1
238	0001 0010	3678.75	3732.3	-0.1	-0.2	20.0	3729.3	3.0
239	0001 0001	3694.38	3755.2	0.2	0.3	22.9	3745.1	10.0
240	0001 0000	3710.00	3769.5	0.2	0.3	14.3	3761.0	8.5
241	0000 1111	3725.63	3776.4	-0.3	-0.3	6.9	3776.8	-0.4
242	0000 1110	3741.25	3788.4	-0.4	-0.3	12.0	3792.7	-4.2
243	0000 1101	3756.88	3813.6	0.1	0.0	25.2	3808.5	5.1
244	0000 1100	3772.50	3824.3	0.2	0.3	10.7	3824.3	-0.0
245	0000 1011	3788.13	3840.4	-0.1	0.3	16.0	3840.2	0.2
246	0000 1010	3803.75	3857.3	-0.3	4.3	16.9	3856.0	1.3
247	0000 1001	3819.38	3882.6	-0.5	-0.2	25.2	3871.9	10.7
248	0000 1000	3835.00	3891.9	0.2	0.4	9.3	3887.7	4.2
249	0000 0111	3850.63	3907.0	0.1	0.2	15.1	3903.6	3.5
250	0000 0110	3866.25	3919.1	-0.4	0.0	12.0	3919.4	-0.3
251	0000 0101	3881.88	3942.9	-0.5	-0.2	23.8	3935.2	7.7
252	0000 0100	3897.50	3961.8	-0.1	-0.2	18.9	3951.1	10.7
253	0000 0011	3913.13	3968.2	0.2	0.2	6.4	3966.9	1.3
254	0000 0010	3928.75	3993.4	0.1	0.2	25.2	3982.8	10.7
255	0000 0001	3944.38	4011.8	-0.4	-0.2	18.4	3998.6	13.2

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST 527
NOV 30 '81

1981/11/30 14:25:43 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=7)

S U M M A R Y

CHECK 1) RMS ERROR, 2) THRESHOLD INCREMENT(+/- 0.0 <= THRH INC <= 31.2)
THE REMAINING DATA ARE FOR INFORMATION ONLY

BEST FIT STRAIGHT LINE IS: Y =15.834X -39.9MV

DEVIATION OF SLOPE FROM IDEAL IS: 1.336%
OFFSET IS:-39.9MV
COEFFICIENT OF DETERMINATION IS: R**2= .99998500
ANALOG INPUT DURING DC RESTORE IS:64.4MV

RMS ERROR = 4.607MV REQMT: RMS ERROR <=7.812MV

THRESHOLD INCREMENT MEASUREMENT

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
27.3MV	231	15.910MV	0.7MV	200	5.779MV

LOWER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
0.7MV	103	-0.042MV	-1.4MV	207	.403MV

UPPER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
0.7MV	156	-0.003MV	-0.9MV	144	.423MV

TEST PASSED

ORIGINAL PAGE IS
OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 504

1981/11/30 14:25:56 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-B A/D THRESHOLD TEST (BAND= 3, SENSOR=7

HAC TFST 527

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
THE FOLLOWING DATA ARE FOR INFORMATION ONLY								
1	1111 1111	-24.375	-30.2	0.3	0.5		-24.0	-6.2
2	1111 1110	-8.750	-14.7	-0.1	0.3	15.3	-8.2	-6.5
3	1111 1101	6.875	8.9	-0.5	-0.4	23.6	7.6	1.3
4	1111 1100	22.500	22.1	-0.4	-0.4	13.1	23.5	-1.4
5	1111 1011	38.125	36.2	0.4	-0.0	14.1	39.3	-3.1
6	1111 1010	53.750	53.9	0.3	0.4	17.7	55.1	-1.2
7	1111 1001	69.375	76.1	-0.5	0.0	22.2	71.0	5.2
8	1111 1000	85.000	81.0	-0.4	-0.4	4.9	86.8	-5.8
9	1111 0111	100.625	97.6	0.0	-0.4	16.6	102.6	-5.0
10	1111 0110	116.250	115.2	0.3	0.3	17.5	118.5	-3.3
11	1111 0101	131.875	136.3	0.3	0.4	21.1	134.3	2.0
12	1111 0100	147.500	152.7	-0.5	0.0	16.4	150.1	2.6
13	1111 0011	163.125	163.9	-0.5	-0.4	11.1	166.0	-2.1
14	1111 0010	178.750	184.4	0.2	0.0	20.5	181.8	2.6
15	1111 0001	194.375	202.8	0.3	0.5	18.4	197.6	5.1
16	1111 0000	210.000	212.0	-0.0	0.5	9.2	213.5	-1.5
17	1110 1111	225.625	224.9	-0.5	-0.4	12.9	229.3	-4.4
18	1110 1110	241.250	240.2	-0.3	-0.4	15.4	245.1	-4.9
19	1110 1101	256.875	263.0	0.3	-0.0	22.8	261.0	2.1
20	1110 1100	272.500	276.7	0.4	0.4	13.6	276.8	-0.1
21	1110 1011	288.125	291.1	-0.5	0.0	14.5	292.6	-1.5
22	1110 1010	303.750	309.4	-0.4	-0.4	18.2	308.5	0.9
23	1110 1001	319.375	330.4	-0.1	-0.4	21.0	324.3	6.1
24	1110 1000	335.000	340.1	0.0	0.0	9.6	340.1	-0.1
25	1110 0111	350.625	351.6	0.4	0.5	11.5	356.0	-4.4

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 505

1981/11/30 14:25:56 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-B A/D THRESHOLD TEST (BAND= 3, SENSOR=7)

HAC TEST 527

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
26	1110 0110	366.250	370.0	-0.4	-0.3	18.4	371.8	-1.8
27	1110 0101	381.875	390.9	-0.5	-0.3	20.9	387.6	3.2
28	1110 0100	397.500	410.6	0.4	0.0	19.7	403.5	7.1
29	1110 0011	413.125	417.6	0.4	0.5	7.0	419.3	-1.7
30	1110 0010	428.750	438.6	-0.1	0.3	21.0	435.1	3.5
31	1110 0001	444.375	457.4	-0.4	-0.4	18.8	451.0	6.4
32	1110 0000	460.000	462.2	-0.3	-0.3	4.8	466.8	-4.6
33	1101 1111	475.625	479.9	0.4	0.5	17.7	482.6	-2.8
34	1101 1110	491.250	494.5	0.2	0.3	14.6	498.5	-4.0
35	1101 1101	506.875	518.9	-0.5	0.0	24.4	514.3	4.6
36	1101 1100	522.500	531.4	-0.4	-0.3	12.5	530.1	1.3
37	1101 1011	538.125	546.4	-0.1	-0.5	15.0	546.0	0.5
38	1101 1010	553.750	562.8	0.4	0.4	16.4	561.8	1.0
39	1101 1001	569.375	585.4	0.4	0.4	22.5	577.6	7.7
40	1101 1000	585.000	592.7	-0.3	-0.3	7.3	593.5	-0.8
41	1101 0111	600.625	607.2	-0.5	-0.5	14.5	609.3	-2.2
42	1101 0110	616.250	623.9	0.3	-0.0	16.7	625.1	-1.3
43	1101 0101	631.675	645.5	0.3	0.5	21.6	641.0	4.5
44	1101 0100	647.500	661.2	0.0	0.6	15.7	656.8	4.4
45	1101 0011	663.125	673.0	-0.5	-0.4	11.8	672.6	0.3
46	1101 0010	678.750	692.8	-0.4	-0.4	19.9	688.5	4.3
47	1101 0001	694.375	712.0	0.4	0.4	19.2	704.3	7.7
48	1101 0000	710.000	724.5	0.4	0.4	12.5	720.1	4.3
49	1100 1111	725.625	733.7	-0.4	0.0	9.2	736.0	-2.3
50	1100 1110	741.250	748.2	-0.4	-0.4	14.5	751.8	-3.6
51	1100 1101	756.875	772.1	-0.1	-0.5	23.8	767.6	4.4

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 506

1981/11/30 14:25:56 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=7)

HAC TFST S27

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
52	1100 1100	772.500	784.4	0.3	0.4	12.3	783.5	0.9
53	1100 1011	788.125	798.9	0.4	0.4	14.5	799.3	-0.4
54	1100 1010	803.750	816.7	-0.3	-0.3	17.8	815.2	1.5
55	1100 1001	819.375	838.4	-0.5	-0.4	21.7	831.0	7.4
56	1100 1000	835.000	850.4	0.3	-0.0	12.0	846.8	3.6
57	1100 0111	850.625	859.3	0.4	0.5	8.9	862.7	-3.4
58	1100 0110	866.250	876.4	0.0	0.3	17.1	878.5	-2.1
59	1100 0101	881.875	898.1	-0.4	-0.4	21.7	894.3	3.8
60	1100 0100	897.500	918.2	-0.4	-0.4	20.1	910.2	8.0
61	1100 0011	913.125	924.7	0.5	0.5	6.4	926.0	-1.3
62	1100 0010	928.750	944.7	0.4	0.4	20.0	941.8	2.9
63	1100 0001	944.375	964.3	-0.5	0.0	19.6	957.7	6.7
64	1100 0000	960.000	974.6	-0.3	-0.4	10.3	973.5	1.1
65	1011 1111	975.625	988.0	0.0	-0.4	13.4	989.3	-1.3
66	1011 1110	991.250	1002.2	0.4	0.4	14.1	1005.2	-3.0
67	1011 1101	1006.88	1026.5	0.5	0.5	24.3	1021.0	5.5
68	1011 1100	1022.50	1038.6	-0.3	-0.3	12.1	1036.8	1.8
69	1011 1011	1038.13	1053.7	-0.4	-0.4	15.0	1052.7	1.0
70	1011 1010	1053.75	1070.0	0.3	-0.1	16.3	1068.5	1.5
71	1011 1001	1069.38	1093.2	0.4	0.4	23.2	1084.3	8.9
72	1011 1000	1085.00	1095.9	-0.0	0.3	2.7	1100.2	-4.3
73	1011 0111	1100.63	1114.0	-0.5	-0.4	18.1	1116.0	-2.0
74	1011 0110	1116.25	1130.9	-0.3	-0.3	16.9	1131.8	-0.9
75	1011 0101	1131.88	1152.9	0.4	0.4	22.0	1147.7	5.2
76	1011 0100	1147.50	1167.1	0.3	0.3	14.1	1163.5	3.6
77	1011 0011	1163.13	1179.4	-0.4	-0.1	12.4	1179.3	0.1
78	1011 0010	1178.75	1199.3	-0.3	-0.3	19.9	1195.2	4.1

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 507

1981/11/30 14:25:56 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=7)

HAC TEST S27

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
79	1011 0001	1194.38	1219.5	-0.1	-0.4	20.2	1211.0	8.5
80	1011 0000	1210.00	1230.0	0.4	0.5	10.4	1226.8	3.2
81	1010 1111	1225.63	1239.3	0.5	0.5	9.3	1242.7	-3.3
82	1010 1110	1241.25	1254.2	-0.4	-0.4	14.9	1258.5	-4.3
83	1010 1101	1256.88	1278.6	-0.4	-0.4	24.4	1274.3	4.3
84	1010 1100	1272.50	1289.3	0.5	-0.0	10.7	1290.2	-0.9
85	1010 1011	1288.13	1304.8	0.4	0.4	15.5	1306.0	-1.2
86	1010 1010	1303.75	1321.6	0.0	0.4	16.8	1321.9	-0.2
87	1010 1001	1319.38	1344.8	-0.4	-0.4	23.2	1337.7	7.2
88	1010 1000	1335.00	1352.9	-0.3	-0.3	8.0	1353.5	-0.6
89	1010 0111	1350.63	1365.0	0.4	0.4	12.1	1369.3	-4.4
90	1010 0110	1366.25	1382.0	0.4	0.4	17.0	1385.2	-3.2
91	1010 0101	1381.88	1404.6	-0.5	0.1	22.6	1401.0	3.6
92	1010 0100	1397.50	1422.5	-0.4	-0.4	17.9	1416.8	5.7
93	1010 0011	1413.13	1430.7	-0.0	-0.5	8.2	1432.7	-2.0
94	1010 0010	1428.75	1450.1	0.5	0.4	19.4	1448.5	1.6
95	1010 0001	1444.38	1470.2	0.4	0.4	20.1	1464.3	5.9
96	1010 0000	1460.00	1477.5	-0.4	-0.4	7.2	1480.2	-2.7
97	1001 1111	1475.63	1492.5	-0.5	-0.5	15.1	1496.0	-3.5
98	1001 1110	1491.25	1505.8	0.3	-0.0	13.2	1511.8	-6.1
99	1001 1101	1506.88	1531.4	0.4	0.4	25.6	1527.7	3.7
100	1001 1100	1522.50	1542.1	0.0	0.4	10.7	1543.5	-1.4
101	1001 1011	1538.13	1557.9	-0.4	-0.4	15.8	1559.3	-1.4
102	1001 1010	1553.75	1576.2	-0.4	-0.5	18.2	1575.2	1.0
103	1001 1001	1569.38	1596.8	0.7	0.7	20.6	1591.0	5.8
104	1001 1000	1585.00	1602.0	0.3	0.3	5.2	1606.8	-4.8

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 508

1981/11/30 14:25:56 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=7)

HAC TEST S27

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
105	1001 0111	1600.63	1618.1	-0.5	0.0	16.1	1622.7	-4.5
106	1001 0110	1616.25	1634.4	-0.4	-0.4	16.2	1638.5	-4.1
107	1001 0101	1631.88	1657.4	-0.0	-0.5	23.0	1654.3	3.1
108	1001 0100	1647.50	1670.8	0.4	0.4	13.4	1670.2	0.6
109	1001 0011	1663.13	1683.0	0.4	0.4	12.2	1686.0	-3.0
110	1001 0010	1678.75	1702.4	-0.4	-0.4	19.4	1701.8	0.5
111	1001 0001	1694.38	1723.4	-0.4	-0.4	21.0	1717.7	5.7
112	1001 0000	1710.00	1737.7	0.4	-0.0	14.3	1733.5	4.2
113	1000 1111	1725.63	1747.5	0.4	0.5	9.8	1749.3	-1.8
114	1000 1110	1741.25	1757.1	0.0	0.4	9.6	1765.2	-8.1
115	1000 1101	1756.88	1783.0	-0.6	-0.6	25.9	1781.0	2.0
116	1000 1100	1772.50	1793.0	0.0	-0.5	10.0	1796.8	-3.8
117	1000 1011	1788.13	1808.7	0.5	0.5	15.7	1812.7	-4.0
118	1000 1010	1803.75	1824.6	0.4	0.4	15.8	1828.5	-4.0
119	1000 1001	1819.38	1848.6	-0.6	-0.0	24.1	1844.3	4.3
120	1000 1000	1835.00	1859.4	0.3	0.2	10.7	1860.2	-0.8
121	1000 0111	1850.63	1869.3	0.0	-0.5	9.9	1876.0	-6.7
122	1000 0110	1866.25	1885.0	0.4	0.4	15.7	1891.8	-6.8
123	1000 0101	1881.88	1908.0	-0.1	0.5	23.0	1907.7	0.4
124	1000 0100	1897.50	1926.7	-0.4	-0.5	18.6	1923.5	3.2
125	1000 0011	1913.13	1934.4	-0.5	-0.5	7.7	1939.4	-5.0
126	1000 0010	1928.75	1953.2	0.3	-0.0	18.8	1955.2	-2.0
127	1000 0001	1944.38	1973.8	0.4	0.4	20.6	1971.0	2.8
128	1000 0000	1960.00	1990.1	0.0	0.3	16.3	1986.9	3.2
129	0111 1111	1975.63	1998.4	-0.4	-0.4	8.3	2002.7	-4.3
130	0111 1110	1991.25	2014.3	-0.0	-0.4	16.0	2018.5	-4.2

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 509

1981/11/30 14:25:56 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=7)

HAC TFST S27

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
131	0111 1101	2006.88	2039.0	0.4	-0.6	24.6	2034.4	4.6
132	0111 1100	2022.50	2052.3	0.3	0.3	13.3	2050.2	2.1
133	0111 1011	2038.13	2064.0	-0.5	0.0	11.7	2066.0	-2.0
134	0111 1010	2053.75	2081.9	-0.5	-0.4	17.9	2081.9	0.1
135	0111 1001	2069.38	2104.3	0.0	-0.5	22.3	2097.7	6.6
136	0111 1000	2085.00	2107.8	0.4	0.4	3.5	2113.5	-5.7
137	0111 0111	2100.63	2123.9	0.0	0.5	16.1	2129.4	-5.5
138	0111 0110	2116.25	2142.7	-0.4	-0.4	18.8	2145.2	-2.5
139	0111 0101	2131.88	2165.1	-0.5	-0.5	22.4	2161.0	4.0
140	0111 0100	2147.50	2181.2	0.4	0.0	16.2	2176.9	4.4
141	0111 0011	2163.13	2189.2	0.5	0.5	7.9	2192.7	-3.5
142	0111 0010	2178.75	2210.7	-0.1	0.3	21.5	2208.5	2.2
143	0111 0001	2194.38	2230.1	-0.5	-0.5	19.4	2224.4	5.8
144	0111 0000	2210.00	2240.1	-0.3	-0.9	10.0	2240.2	-0.1
145	0110 1111	2225.63	2249.7	0.5	0.5	9.5	2256.0	-6.4
146	0110 1110	2241.25	2265.6	0.4	0.4	16.0	2271.9	-6.2
147	0110 1101	2256.88	2290.7	-0.2	0.0	25.0	2287.7	3.0
148	0110 1100	2272.50	2302.4	-0.5	-0.5	11.8	2303.5	-1.1
149	0110 1011	2288.13	2315.7	-0.0	-0.7	13.2	2319.4	-3.7
150	0110 1010	2303.75	2333.4	0.4	0.4	17.7	2335.2	-1.8
151	0110 1001	2319.38	2356.3	0.0	0.5	22.9	2351.0	5.3
152	0110 1000	2335.00	2364.4	-0.4	-0.4	8.1	2366.9	-2.5
153	0110 0111	2350.63	2375.8	-0.4	-0.4	11.4	2382.7	-6.9
154	0110 0110	2366.25	2393.8	0.4	0.0	18.0	2398.5	-4.7
155	0110 0101	2381.88	2415.9	0.6	0.6	22.0	2414.4	1.5
156	0110 0100	2397.50	2435.8	0.1	0.7	19.9	2430.2	5.6
157	0110 0011	2413.13	2441.1	-0.4	-0.5	5.4	2446.0	-4.9

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 510

1981/11/30 14:25:56 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-B A/D THRESHOLD TEST (BAND= 3, SENSOR=7)

HAC TFST S27

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	TDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
158	0110 0010	2428.75	2462.4	-0.0	-0.4	21.3	2461.9	0.5
159	0110 0001	2444.38	2480.9	0.5	0.6	18.4	2477.7	3.2
160	0110 0000	2460.00	2487.8	0.4	0.4	6.9	2493.5	-5.8
161	0101 1111	2475.63	2503.1	-0.5	-0.0	15.3	2509.4	-6.3
162	0101 1110	2491.25	2518.3	-0.5	-0.5	15.1	2525.2	-6.9
163	0101 1101	2506.88	2543.6	-0.1	-0.6	25.4	2541.0	2.6
164	0101 1100	2522.50	2557.2	0.4	0.4	13.6	2556.9	0.4
165	0101 1011	2538.13	2568.1	-0.0	0.5	10.9	2572.7	-4.6
166	0101 1010	2553.75	2585.6	-0.5	-0.5	17.5	2588.5	-2.9
167	0101 1001	2569.38	2609.8	-0.5	-0.5	24.2	2604.4	5.5
168	0101 1000	2585.00	2614.4	0.4	0.0	4.5	2620.2	-5.8
169	0101 0111	2600.63	2628.4	0.5	0.5	14.0	2636.0	-7.6
170	0101 0110	2616.25	2645.8	-0.1	0.7	17.4	2651.9	-6.1
171	0101 0101	2631.88	2670.3	-0.5	-0.4	24.5	2667.7	2.6
172	0101 0100	2647.50	2685.9	0.0	-0.4	15.6	2683.5	2.4
173	0101 0011	2663.13	2693.7	0.3	0.3	7.8	2699.4	-5.7
174	0101 0010	2678.75	2714.3	0.4	0.5	20.5	2715.2	-0.9
175	0101 0001	2694.38	2735.8	-0.5	-0.0	21.5	2731.0	4.7
176	0101 0000	2710.00	2748.3	-0.5	-0.4	12.5	2746.9	1.4
177	0100 1111	2725.63	2754.8	0.0	-0.4	6.4	2762.7	-8.0
178	0100 1110	2741.25	2769.4	0.5	0.5	14.6	2778.5	-9.2
179	0100 1101	2756.88	2794.7	-0.1	0.3	25.3	2794.4	0.3
180	0100 1100	2772.50	2806.3	-0.5	-0.5	11.6	2810.2	-3.9
181	0100 1011	2788.13	2820.3	-0.6	-0.5	13.9	2826.0	-5.8
182	0100 1010	2803.75	2837.0	0.4	-0.0	16.7	2841.9	-4.9
183	0100 1001	2819.38	2860.8	0.6	0.6	23.9	2857.7	3.1

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 511

1981/11/30 14:25:56 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=7)

HAC TFST 527

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
184	0100 1000	2835.00	2871.6	-0.2	0.6	10.8	2873.5	-1.9
185	0100 0111	2850.63	2880.6	-0.6	-0.6	9.0	2889.4	-8.8
186	0100 0110	2866.25	2898.2	-0.1	-0.5	17.5	2905.2	-7.0
187	0100 0101	2881.88	2921.5	0.5	0.6	23.3	2921.0	0.4
188	0100 0100	2897.50	2940.7	0.4	0.4	19.2	2936.9	3.8
189	0100 0011	2913.13	2946.0	-0.5	0.0	5.3	2952.7	-6.8
190	0100 0010	2928.75	2966.4	-0.5	-0.5	20.4	2968.5	-2.1
191	0100 0001	2944.38	2987.3	-0.1	-0.6	20.9	2984.4	2.9
192	0100 0000	2960.00	2994.6	0.4	0.3	7.2	3000.2	-5.6
193	0011 1111	2975.63	3008.6	0.1	0.7	14.0	3016.0	-7.4
194	0011 1110	2991.25	3024.6	-0.5	-0.5	15.9	3031.9	-7.3
195	0011 1101	3006.88	3050.2	-0.6	-0.5	25.7	3047.7	2.5
196	0011 1100	3022.50	3062.4	0.2	-0.1	12.1	3063.6	-1.2
197	0011 1011	3038.13	3074.6	0.5	0.6	12.2	3079.4	-4.8
198	0011 1010	3053.75	3091.7	-0.1	0.5	17.1	3095.2	-3.5
199	0011 1001	3069.38	3117.6	-0.2	-0.7	25.9	3111.1	6.5
200	0011 1000	3085.00	3118.3	-0.0	-0.5	0.7	3126.9	-8.6
201	0011 0111	3100.63	3135.2	0.5	0.5	16.9	3142.7	-7.5
202	0011 0110	3116.25	3153.1	0.4	0.5	17.9	3158.6	-5.4
203	0011 0101	3131.88	3177.8	-0.7	0.0	24.6	3174.4	3.4
204	0011 0100	3147.50	3192.3	-0.4	-0.4	14.5	3190.2	2.0
205	0011 0011	3163.13	3201.6	-0.1	-0.5	9.3	3206.1	-4.4
206	0011 0010	3178.75	3221.6	0.5	0.5	20.0	3221.9	-0.3
207	0011 0001	3194.38	3243.3	-1.4	0.5	21.7	3237.7	5.6
208	0011 0000	3210.00	3255.9	-0.4	-0.4	12.5	3253.6	2.3
209	0010 1111	3225.63	3262.7	-0.6	-0.6	6.8	3269.4	-6.7

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 512

1981/11/30 14:25:56 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-4 A/D THRESHOLD TEST (BAND= 3, SENSOR=7

HAC TEST S27

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
210	0010 1110	3241.25	3277.5	0.3	-0.0	14.9	3285.2	-7.7
211	0010 1101	3256.88	3303.1	0.5	0.6	25.5	3301.1	2.0
212	0010 1100	3272.50	3313.1	0.0	0.6	10.0	3316.9	-3.7
213	0010 1011	3288.13	3328.7	-0.6	-0.6	15.5	3332.7	-4.1
214	0010 1010	3303.75	3346.0	-0.1	-0.6	17.4	3348.6	-2.5
215	0010 1001	3319.38	3371.2	0.4	0.3	25.1	3364.4	6.8
216	0010 1000	3335.00	3376.7	0.4	0.4	5.5	3380.2	-3.5
217	0010 0111	3350.63	3389.4	-0.6	0.1	12.7	3396.1	-6.6
218	0010 0110	3366.25	3407.4	-0.6	-0.6	18.0	3411.9	-4.5
219	0010 0101	3381.88	3431.6	-0.1	-0.5	24.2	3427.7	3.9
220	0010 0100	3397.50	3449.4	0.4	0.5	17.7	3443.6	5.8
221	0010 0011	3413.13	3455.0	-0.0	0.5	5.6	3459.4	-4.4
222	0010 0010	3428.75	3476.4	-0.6	-0.4	21.4	3475.2	1.1
223	0010 0001	3444.38	3497.8	-0.6	-0.5	21.4	3491.1	6.7
224	0010 0000	3460.00	3503.3	0.4	0.0	5.5	3506.9	-3.6
225	0001 1111	3475.63	3524.6	0.2	0.3	21.3	3522.7	1.8
226	0001 1110	3491.25	3532.7	-0.3	0.2	8.1	3538.6	-5.9
227	0001 1101	3506.88	3559.5	-0.7	-0.5	26.8	3554.4	5.1
228	0001 1100	3522.50	3572.6	-0.1	-0.5	13.1	3570.2	2.4
229	0001 1011	3538.13	3584.3	0.4	0.5	11.7	3586.1	-1.8
230	0001 1010	3553.75	3600.4	0.4	0.5	16.1	3601.9	-1.5
231	0001 1001	3569.38	3627.8	-0.6	0.0	27.3	3617.7	10.0
232	0001 1000	3585.00	3629.6	0.0	0.0	1.9	3633.6	-3.9
233	0001 0111	3600.63	3645.8	-0.1	0.1	16.2	3649.4	-3.6
234	0001 0110	3616.25	3662.6	0.5	0.4	16.8	3665.2	-2.7
235	0001 0101	3631.88	3687.2	-0.1	0.5	24.6	3681.1	6.1
236	0001 0100	3647.50	3702.2	-0.4	-0.5	15.0	3696.9	5.3

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 513

1981/11/30 14:25:56 PENALTY FULL PERFORMANCE @ AMBTENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=7)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
237	0001 0011	3663.13	3712.3	-0.7	-0.6	10.1	3712.7	-0.4
238	0001 0010	3678.75	3731.5	0.4	-0.1	19.2	3728.6	2.9
239	0001 0001	3694.38	3753.8	0.3	0.5	22.4	3744.4	9.4
240	0001 0000	3710.00	3769.0	-0.1	0.6	15.2	3760.2	8.8
241	0000 1111	3725.63	3780.1	-0.7	-0.5	11.0	3776.1	4.0
242	0000 1110	3741.25	3788.3	-0.1	-0.4	8.2	3791.9	-3.6
243	0000 1101	3756.88	3814.3	0.4	0.6	26.0	3807.7	6.6
244	0000 1100	3772.50	3823.9	0.4	0.5	9.6	3823.6	0.4
245	0000 1011	3788.13	3840.5	-0.6	-0.0	16.6	3839.4	1.1
246	0000 1010	3803.75	3856.7	-0.5	-0.3	16.2	3855.2	1.5
247	0000 1001	3819.38	3883.5	-0.2	-0.5	26.8	3871.1	12.4
248	0000 1000	3835.00	3891.9	0.4	0.6	8.4	3886.9	5.0
249	0000 0111	3850.63	3901.3	-0.1	0.6	9.4	3902.7	-1.5
250	0000 0110	3866.25	3919.1	-0.7	-0.4	17.8	3918.6	0.5
251	0000 0101	3881.88	3944.0	-0.7	-0.5	24.9	3934.4	9.5
252	0000 0100	3897.50	3961.6	0.5	0.1	17.6	3950.2	11.4
253	0000 0011	3913.13	3966.5	0.0	0.0	6.8	3966.1	2.4
254	0000 0010	3928.75	3988.0	-0.1	0.6	19.6	3981.9	6.1
255	0000 0001	3944.38	4010.8	-0.7	-0.5	22.8	3997.7	13.1

ORIGINAL PAGE IS
OF POOR QUALITY

HAC TEST S27

1981/11/30 14:32:19 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=8)

S U M M A R Y

CHECK 1) RMS ERROR, 2) THRESHOLD INCREMENT(+/- 0.0 <= THRH INC <= 31.2)
THE REMAINING DATA ARE FOR INFORMATION ONLY

BEST FIT STRAIGHT LINE IS: Y =15.857X -41.4MV

DEVIATION OF SLOPE FROM IDEAL IS: 1.488%
OFFSET IS:-41.4MV
COEFFICIENT OF DETERMINATION IS: R**2= .99998550
ANALOG INPUT DURING DC RESTORE IS:64.5MV

RMS ERROR = 4.307MV REQMT: RMS ERROR <=7.812MV

THRESHOLD INCREMENT MEASUREMENT

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
26.8MV	243	15.922MV	1.4MV	200	5.954MV

LOWER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
0.6MV	45	-0.043MV	-0.8MV	108	.308MV

UPPER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
6.5MV	189	0.081MV	-1.1MV	108	.712MV

TEST PASSED

HAC TEST S27
NOV 30 '81
ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 515

1981/11/30 14:32:32 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=8)

HAC TEST 527

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
THE FOLLOWING DATA ARE FOR INFORMATION ONLY								
1	1111 1111	-24.375	-29.3	-1.7	-0.0		-25.6	-3.7
2	1111 1110	-8.750	-17.8	0.2	0.2	11.5	-9.7	-8.1
3	1111 1101	6.875	7.2	0.2	0.3	24.9	6.1	1.0
4	1111 1100	22.500	19.7	-0.3	-0.0	12.6	22.0	-2.3
5	1111 1011	38.125	38.2	-0.3	-0.3	18.5	37.9	0.4
6	1111 1010	53.750	50.8	0.3	-0.0	12.5	53.7	-2.9
7	1111 1001	69.375	73.2	0.3	0.3	22.5	69.6	3.7
8	1111 1000	85.000	79.2	-0.0	0.2	5.9	85.4	-6.3
9	1111 0111	100.625	98.7	-0.4	-0.2	19.5	101.3	-2.6
10	1111 0110	116.250	112.6	-0.4	-0.3	13.9	117.1	-4.5
11	1111 0101	131.875	135.0	0.2	0.0	22.3	133.0	2.0
12	1111 0100	147.500	149.2	0.2	0.2	14.2	148.9	0.4
13	1111 0011	163.125	162.4	-0.3	1.9	13.1	164.7	-2.4
14	1111 0010	178.750	181.8	-0.3	-0.3	19.4	180.6	1.2
15	1111 0001	194.375	201.1	-0.1	-0.2	19.3	196.4	4.7
16	1111 0000	210.000	207.5	0.2	0.3	6.4	212.3	-4.8
17	1110 1111	225.625	225.7	0.2	0.3	18.1	228.1	-2.5
18	1110 1110	241.250	237.5	-0.3	-0.0	11.9	244.0	-6.5
19	1110 1101	256.875	262.3	-0.4	-0.3	24.8	259.9	2.5
20	1110 1100	272.500	278.2	0.2	-0.0	15.9	275.7	2.5
21	1110 1011	288.125	292.7	0.2	0.3	14.5	291.6	1.1
22	1110 1010	303.750	306.0	-0.0	0.3	13.3	307.4	-1.4
23	1110 1001	319.375	328.4	-0.4	-0.3	22.4	323.3	5.1
24	1110 1000	335.000	340.8	-0.3	-0.4	12.4	339.1	1.6
25	1110 0111	350.625	353.1	0.2	0.0	12.3	355.0	-1.9

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 516
1981/11/30 14:32:37 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.3.5-B A/D THRESHOLD TEST (BAND= 3, SENSOR=B)

HAC TEST S27 NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1.:1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
26	1110 0110	366.250	367.2	0.2	0.4	14.1	370.9	-3.7
27	1110 0101	381.875	389.8	-0.4	0.0	22.6	386.7	3.1
28	1110 0100	397.500	409.0	-0.4	-0.3	19.2	402.6	6.5
29	1110 0011	413.125	418.9	0.1	-0.3	9.8	418.4	0.4
30	1110 0010	428.750	436.2	0.2	0.3	17.4	434.3	1.9
31	1110 0001	444.375	455.3	0.2	0.3	19.1	450.2	5.2
32	1110 0000	460.000	461.1	-0.2	-0.0	5.8	466.0	-4.9
33	1101 1111	475.625	481.8	-0.4	-0.3	20.7	481.9	-0.1
34	1101 1110	491.250	492.2	0.2	-0.0	10.4	497.7	-5.6
35	1101 1101	506.875	517.7	0.3	0.3	25.5	513.6	4.1
36	1101 1100	522.500	530.0	0.0	0.3	12.2	529.4	0.5
37	1101 1011	538.125	548.7	-0.4	-0.3	18.7	545.3	3.4
38	1101 1010	553.750	560.7	-0.3	-0.3	12.0	561.2	-0.4
39	1101 1001	569.375	583.8	0.2	-0.0	23.1	577.0	6.8
40	1101 1000	585.000	591.7	0.2	0.2	7.9	592.9	-1.1
41	1101 0111	600.625	608.9	-0.3	0.0	17.2	608.7	0.2
42	1101 0110	616.250	622.1	-0.3	-0.3	13.1	624.6	-2.5
43	1101 0101	631.875	645.2	-0.0	-0.2	23.1	640.4	4.7
44	1101 0100	647.500	660.6	0.3	0.3	15.4	656.3	4.3
45	1101 0011	663.125	674.5	0.6	0.7	13.9	672.2	2.3
46	1101 0010	678.750	690.9	-0.3	-0.0	16.4	688.0	2.8
47	1101 0001	694.375	710.8	-0.3	-0.3	20.0	703.9	7.0
48	1101 0000	710.000	723.5	0.2	0.0	12.7	719.7	3.8
49	1100 1111	725.625	734.9	0.3	0.3	11.4	735.6	-0.6
50	1100 1110	741.250	745.8	0.0	0.3	10.9	751.4	-5.6
51	1100 1101	756.875	771.4	-0.3	-0.3	25.6	767.3	4.1

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 517

1981/11/30 14:32:32 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5—8 A/D THRESHOLD TEST (BAND= 3, SENSOR=8)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRATGHT LINE POINT	DEVIATION
52	1100 1100	772.500	783.8	-0.5	-0.5	12.4	783.2	0.7
53	1100 1011	788.125	801.5	0.2	-0.1	17.7	799.0	2.5
54	1100 1010	803.750	814.1	0.2	0.2	12.6	814.9	-0.7
55	1100 1001	819.375	837.1	-0.3	-0.0	23.0	830.7	6.4
56	1100 1000	835.000	851.9	0.3	0.2	14.7	846.6	5.3
57	1100 0111	850.625	861.7	-0.0	-0.2	9.8	862.4	-0.7
58	1100 0110	866.250	874.7	0.2	0.2	13.0	878.3	-3.6
59	1100 0101	881.875	897.6	0.3	0.3	22.9	894.2	3.4
60	1100 0100	897.500	915.6	-0.2	0.9	18.0	910.0	5.5
61	1100 0011	913.125	927.6	-0.2	-0.4	12.0	925.9	1.7
62	1100 0010	928.750	943.2	0.3	-0.0	15.6	941.7	1.5
63	1100 0001	944.375	962.7	0.3	0.3	19.5	957.6	5.2
64	1100 0000	960.000	976.2	-0.1	0.2	13.4	973.4	2.7
65	1011 1111	975.625	991.0	-0.2	-0.2	14.8	989.3	1.7
66	1011 1110	991.250	1001.0	-0.3	-0.3	10.0	1005.2	-4.2
67	1011 1101	1006.88	1026.3	0.3	0.0	25.4	1021.0	5.3
68	1011 1100	1022.50	1037.6	0.2	0.2	11.2	1036.9	0.7
69	1011 1011	1038.13	1057.7	-0.3	0.1	20.1	1052.7	5.0
70	1011 1010	1053.75	1068.6	-0.1	-0.2	10.8	1068.6	-0.0
71	1011 1001	1069.38	1092.5	0.0	-0.3	23.9	1084.4	8.1
72	1011 1000	1085.00	1095.9	0.2	0.2	3.3	1100.3	-4.4
73	1011 0111	1100.63	1117.0	0.3	0.3	21.1	1116.2	0.9
74	1011 0110	1116.25	1129.6	-0.3	0.0	12.6	1132.0	-2.4
75	1011 0101	1131.88	1153.1	-0.3	-0.3	23.5	1147.9	5.2
76	1011 0100	1147.50	1165.7	0.2	-0.1	12.5	1163.7	1.9
77	1011 0011	1163.13	1183.7	0.3	0.3	18.0	1179.6	4.1
78	1011 0010	1178.75	1197.6	-0.0	0.3	13.9	1195.5	2.2

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 518

1981/11/30 14:32:32 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=8)

HAC TEST 127

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
79	1011 0001	1194.38	1218.4	-0.3	-0.3	20.7	1211.3	7.1
80	1011 0000	1210.00	1227.4	-0.2	-0.2	9.0	1227.2	0.3
81	1010 1111	1225.63	1242.8	0.3	-0.0	15.4	1243.0	-0.2
82	1010 1110	1241.25	1252.8	0.2	0.2	10.0	1258.9	-6.1
83	1010 1101	1256.88	1278.5	-0.3	-0.0	25.7	1274.7	3.8
84	1010 1100	1272.50	1289.5	-0.2	-0.3	11.0	1290.6	-1.1
85	1010 1011	1288.13	1309.5	-0.0	-0.3	20.0	1306.5	3.1
86	1010 1010	1303.75	1320.7	0.3	0.3	11.2	1322.3	-1.6
87	1010 1001	1319.38	1344.0	0.3	0.3	23.3	1338.2	5.8
88	1010 1000	1335.00	1352.8	-0.3	-0.1	8.8	1354.0	-1.2
89	1010 0111	1350.63	1369.1	-0.3	-0.3	16.2	1369.9	-0.8
90	1010 0110	1366.25	1381.1	0.3	-0.1	12.0	1385.7	-4.7
91	1010 0101	1381.88	1404.4	0.4	0.4	23.3	1401.6	2.8
92	1010 0100	1397.50	1421.8	-0.1	0.3	17.3	1417.5	4.3
93	1010 0011	1413.13	1435.5	-0.3	-0.3	13.7	1433.3	2.2
94	1010 0010	1428.75	1449.7	-0.3	-0.3	14.1	1449.2	0.5
95	1010 0001	1444.38	1469.7	0.2	0.0	20.1	1465.0	4.7
96	1010 0000	1460.00	1478.0	0.1	0.2	8.3	1480.9	-2.8
97	1001 1111	1475.63	1495.9	-0.2	0.0	17.9	1496.7	-0.8
98	1001 1110	1491.25	1505.1	-0.3	-0.3	9.1	1512.6	-7.5
99	1001 1101	1506.88	1531.4	-0.0	-0.3	26.3	1528.5	3.0
100	1001 1100	1522.50	1542.3	0.2	0.2	10.8	1544.3	-2.1
101	1001 1011	1538.13	1562.2	0.3	0.3	20.0	1560.2	2.1
102	1001 1010	1553.75	1572.8	-0.2	-0.0	10.5	1576.0	-3.3
103	1001 1001	1569.38	1597.4	-0.5	-0.5	24.6	1591.9	5.5
104	1001 1000	1585.00	1602.7	0.2	-0.1	5.3	1607.7	-5.0

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 519

1981/11/30 14:32:32 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=8)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
105	1001 0111	1600.63	1621.8	0.3	0.3	19.1	1623.6	-1.8
106	1001 0110	1616.25	1633.3	0.0	0.3	11.5	1639.5	-6.2
107	1001 0101	1631.88	1657.6	-0.3	-0.3	24.4	1655.3	2.3
108	1001 0100	1647.50	1671.5	-0.8	-1.1	13.9	1671.2	0.3
109	1001 0011	1663.13	1688.3	0.2	-0.0	16.8	1687.0	1.3
110	1001 0010	1678.75	1701.5	0.3	0.2	13.1	1702.9	-1.4
111	1001 0001	1694.38	1722.9	-0.3	0.0	21.4	1718.7	4.2
112	1001 0000	1710.00	1738.2	-0.3	-0.3	15.2	1734.6	3.6
113	1000 1111	1725.63	1747.6	-0.0	-0.3	9.4	1750.5	-2.8
114	1000 1110	1741.25	1756.6	0.2	0.2	9.0	1766.3	-9.7
115	1000 1101	1756.88	1782.6	0.4	0.5	25.9	1782.2	0.4
116	1000 1100	1772.50	1793.3	-0.3	-0.3	10.7	1798.0	-4.7
117	1000 1011	1788.13	1813.9	-0.2	-0.2	20.6	1813.9	-0.0
118	1000 1010	1803.75	1824.6	0.2	-0.0	10.7	1829.7	-5.1
119	1000 1001	1819.38	1848.4	0.3	0.3	23.8	1845.6	2.8
120	1000 1000	1835.00	1860.2	-0.0	0.2	11.7	1861.5	-1.3
121	1000 0111	1850.63	1873.5	-0.3	-0.3	13.3	1877.3	-3.9
122	1000 0110	1866.25	1885.1	-0.4	-0.3	11.6	1393.2	-8.1
123	1000 0101	1881.88	1908.6	0.3	0.3	23.5	1909.0	-0.4
124	1000 0100	1897.50	1926.4	0.3	0 3	17.8	1924.9	1.5
125	1000 0011	1913.13	1939.8	-0.3	0.0	13.4	1940.8	-1.0
126	1000 0010	1928.75	1953.3	-0.3	-0.3	13.5	1956.6	-3.3
127	1000 0001	1944.38	1974.1	-0.0	-0.3	20.8	1972.5	1.6
128	1000 0000	1960.00	1990.6	0.2	0.2	16.5	1988.3	2.3
129	0111 1111	1975.63	2003.9	0.3	0.3	13.3	2004.2	-0.3
130	0111 1110	1991.25	2014.2	-0.2	-0.3	10.3	2020.0	-5.9

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N'3 PAGE 520

1981/11/30 14:32:32 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=8)

HAC TEST S27 NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
131	0111 1101	2006.88	2039.4	-0.3	-0.3	25.2	2035.9	3.5
132	0111 1100	2022.50	2052.4	0.3	0.0	13.0	2051.8	0.7
133	0111 1011	2038.13	2070.5	0.3	0.4	18.1	2067.6	2.9
134	0111 1010	2053.75	2082.1	-0.0	0.3	11.6	2083.5	-1.4
135	0111 1001	2069.38	2105.6	-0.4	-0.4	23.6	2099.3	6.3
136	0111 1000	2085.00	2109.3	-0.3	-0.3	3.7	2115.2	-5.9
137	0111 0111	2100.63	2130.3	0.3	0.4	21.0	2131.0	-0.7
138	0111 0110	2116.25	2142.4	0.2	0.2	12.1	2146.9	-4.5
139	0111 0101	2131.88	2166.2	-0.4	-0.1	23.7	2162.8	3.4
140	0111 0100	2147.50	2182.2	-0.3	-0.3	16.0	2178.6	3.6
141	0111 0011	2163.13	2190.9	-0.0	5.3	8.7	2194.5	-3.6
142	0111 0010	2178.75	2210.8	0.3	0.3	19.8	2210.3	0.4
143	0111 0001	2194.38	2231.4	0.3	0.3	20.7	2226.2	5.3
144	0111 0000	2210.00	2240.7	-0.3	-0.3	9.3	2242.0	-1.3
145	0110 1111	2225.63	2256.3	-0.4	-0.4	15.5	2257.9	-1.6
146	0110 1110	2241.25	2265.9	0.3	0.0	9.6	2273.8	-7.9
147	0110 1101	2256.88	2290.9	0.4	0.5	25.0	2289.6	1.3
148	0110 1100	2272.50	2303.4	0.0	0.3	12.5	2305.5	-2.1
149	0110 1011	2288.13	2322.9	-0.4	-0.4	19.5	2321.3	1.5
150	0110 1010	2303.75	2334.6	-0.3	-0.3	11.7	2337.2	-2.6
151	0110 1001	2319.38	2357.2	0.3	0.3	22.6	2353.0	4.2
152	0110 1000	2335.00	2365.5	0.3	0.3	8.3	2368.9	-3.4
153	0110 0111	2350.63	2382.4	-0.3	-0.0	16.9	2384.8	-2.4
154	0110 0110	2366.25	2394.5	-0.4	-0.3	12.1	2400.6	-6.1
155	0110 0101	2381.88	2417.9	-0.1	-0.3	23.3	2416.5	1.4
156	0110 0100	2397.50	2437.1	0.3	0.3	19.3	2432.3	4.8
157	0110 0011	2413.13	2448.0	0.3	0.4	10.9	2448.2	-0.2

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 521
1981/11/30 14:32:32 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=8)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
158	0110 0010	2428.75	2462.9	-0.3	-0.3	14.9	2464.0	-1.2
159	0110 0001	2444.38	2483.1	-0.4	-0.5	20.2	2479.9	3.2
160	0110 0000	2460.00	2489.3	0.2	-0.1	6.2	2495.8	-6.5
161	0101 1111	2475.63	2509.3	0.4	0.3	20.0	2511.6	-2.3
162	0101 1110	2491.25	2518.3	-0.0	0.3	9.0	2527.5	-9.1
163	0101 1101	2506.88	2544.6	-0.4	-0.4	26.2	2543.3	1.2
164	0101 1100	2522.50	2558.2	-0.4	-0.3	13.6	2559.2	-1.0
165	0101 1011	2538.13	2576.0	0.2	0.2	17.8	2575.0	0.9
166	0101 1010	2553.75	2586.4	0.3	0.3	10.4	2590.9	-4.5
167	0101 1001	2569.38	2611.7	-0.3	-0.1	25.3	2606.8	5.0
168	0101 1000	2585.00	2616.6	-0.3	-0.3	4.9	2622.6	-6.0
169	0101 0111	2600.63	2635.9	-0.1	-0.3	19.2	2638.5	-2.6
170	0101 0110	2616.25	2646.8	0.3	0.3	10.9	2654.3	-7.6
171	0101 0101	2631.88	2670.8	0.3	0.3	24.0	2670.2	0.6
172	0101 0100	2647.50	2687.0	-0.4	-0.3	16.2	2686.1	0.9
173	0101 0011	2663.13	2696.1	-0.4	5.7	9.1	2701.9	-5.8
174	0101 0010	2678.75	2715.2	0.3	0.2	19.0	2717.8	-2.6
175	0101 0001	2694.38	2736.2	0.4	0.4	21.1	2733.6	2.6
176	0101 0000	2710.00	2749.6	0.0	0.3	13.3	2749.5	0.1
177	0100 1111	2725.63	2761.7	-0.4	-0.4	12.1	2765.3	-3.7
178	0100 1110	2741.25	2770.6	-0.4	-0.3	8.9	2781.2	-10.6
179	0100 1101	2756.88	2796.0	0.4	0.4	25.4	2797.1	-1.1
180	0100 1100	2772.50	2807.6	0.3	0.4	11.6	2812.9	-5.3
181	0100 1011	2788.13	2828.1	-0.4	0.0	20.6	2828.8	-0.6
182	0100 1010	2803.75	2839.0	-0.3	-0.4	10.8	2844.6	-5.7
183	0100 1001	2819.38	2863.5	-0.0	-0.1	24.5	2860.5	3.0

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 522

1981/11/30 14:32:32 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-B A/D THRESHOLD TEST (BAND= 3, SENSOR=B)

HAC TEST 527

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
184	0100 1000	2835.00	2877.7	0.3	0.4	14.3	2876.3	1.4
185	0100 0111	2850.63	2887.4	0.1	0.1	9.6	2892.2	-4.8
186	0100 0110	2866.25	2899.0	-0.3	-0.4	11.6	2908.1	-9.0
187	0100 0101	2881.88	2923.1	-0.4	-0.4	24.1	2923.9	-0.8
188	0100 0100	2897.50	2942.5	0.2	-0.1	19.4	2939.8	2.8
189	0100 0011	2913.13	2947.8	0.3	6.5	5.3	2955.6	-7.8
190	0100 0010	2928.75	2967.2	-0.1	0.3	19.4	2971.5	-4.3
191	0100 0001	2944.38	2988.9	-0.4	-0.3	21.7	2987.3	1.5
192	0100 0000	2960.00	2997.8	-0.3	-0.3	8.9	3003.2	-5.4
193	0011 1111	2975.63	3016.6	-0.0	-0.1	18.8	3019.1	-2.5
194	0011 1110	2991.25	3026.6	0.3	0.3	10.0	3034.9	-8.3
195	0011 1101	3006.88	3051.9	-0.4	0.0	25.3	3050.8	1.1
196	0011 1100	3022.50	3064.0	-0.3	-0.4	12.1	3066.6	-2.6
197	0011 1011	3038.13	3084.0	-0.1	-0.3	20.0	3082.5	1.5
198	0011 1010	3053.75	3093.7	0.3	0.4	9.7	3098.3	-4.7
199	0011 1001	3069.38	3119.3	-0.1	0.3	25.6	3114.2	5.1
200	0011 1000	3085.00	3120.7	-0.3	-0.3	1.4	3130.1	-9.3
201	0011 0111	3100.63	3143.9	-0.3	-0.3	23.2	3145.9	-2.0
202	0011 0110	3116.25	3154.7	0.3	-0.1	10.7	3161.8	-7.1
203	0011 0101	3131.88	3179.2	0.3	0.4	24.6	3177.6	1.6
204	0011 0100	3147.50	3193.8	-0.1	0.3	14.6	3193.5	0.3
205	0011 0011	3163.13	3204.1	-0.4	-0.4	10.3	3209.3	-5.2
206	0011 0010	3178.75	3224.2	-0.1	-0.3	20.0	3225.2	-1.0
207	0011 0001	3194.38	3245.2	0.4	0.3	21.0	3241.1	4.1
208	0011 0000	3210.00	3256.8	0.3	0.2	11.6	3256.9	-0.2
209	0010 1111	3225.63	3270.7	-0.3	0.0	13.9	3272.8	-2.1

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 523

1981/11/30 14:32:32 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=8)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
210	0010 1110	3241.25	3279.5	-0.5	-0.4	8.8	3288.6	-9.1
211	0010 1101	3256.88	3305.6	-0.2	-0.4	26.1	3304.5	1.1
212	0010 1100	3272.50	3315.7	0.3	0.4	10.2	3320.3	-4.6
213	0010 1011	3288.13	3337.4	-0.0	0.5	21.7	3336.2	1.2
214	0010 1010	3303.75	3348.4	-0.3	-0.3	10.9	3352.1	-3.7
215	0010 1001	3319.38	3373.7	-0.4	-0.3	25.3	3367.9	5.8
216	0010 1000	3335.00	3383.8	0.4	-0.0	10.1	3383.8	0.1
217	0010 0111	3350.63	3397.7	0.2	0.3	13.9	3399.6	-1.9
218	0010 0110	3366.25	3408.7	-0.1	0.3	11.0	3415.5	-6.8
219	0010 0101	3381.88	3433.7	-0.5	-0.4	25.0	3431.4	2.4
220	0010 0100	3397.50	3451.9	-0.0	-0.3	18.2	3447.2	4.7
221	0010 0011	3413.13	3458.0	0.4	0.4	6.1	3463.1	-5.1
222	0010 0010	3428.75	3477.8	0.3	0.4	19.8	3478.9	-1.1
223	0010 0001	3444.38	3500.3	0.4	1.1	22.5	3494.8	5.5
224	0010 0000	3460.00	3506.8	-0.4	-0.3	6.5	3510.6	-3.9
225	0001 1111	3475.63	3526.8	-0.1	-0.4	20.1	3526.5	0.4
226	0001 1110	3491.25	3535.5	0.3	0.3	8.6	3542.4	-6.9
227	0001 1101	3506.88	3561.2	-0.1	0.5	25.7	3558.2	3.0
228	0001 1100	3522.50	3574.3	-0.3	-0.3	13.1	3574.1	0.2
229	0001 1011	3538.13	3594.4	-0.5	-0.4	20.1	3589.9	4.4
230	0001 1010	3553.75	3603.2	0.3	-0.0	8.8	3605.8	-2.6
231	0001 1001	3569.38	3629.6	0.1	0.8	26.4	3621.6	8.0
232	0001 1000	3585.00	3633.0	-0.0	0.4	3.4	3637.5	-4.5
233	0001 0111	3600.63	3654.9	-0.5	-0.4	21.9	3653.4	1.5
234	0001 0110	3616.25	3665.1	-0.0	-0.3	10.3	3669.2	-4.1
235	0001 0101	3631.88	3690.1	0.1	0.3	24.9	3685.1	5.0
236	0001 0100	3647.50	3704.6	0.2	0.4	14.5	3700.9	3.7

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 524
1981/11/30 14:32:32 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=8)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
237	0001 0011	3663.13	3715.6	-0.4	-0.1	11.0	3716.8	-1.2
238	0001 0010	3678.75	3734.8	-0.4	-0.3	19.2	3732.6	2.1
239	0001 0001	3694.38	3758.6	-0.1	-0.3	23.8	3748.5	10.1
240	0001 0000	3710.00	3772.2	0.3	0.4	13.6	3764.[illegible]	7.9
241	0000 1111	3725.63	3782.2	-0.1	0.4	10.0	3780.2	2.0
242	0000 1110	3741.25	3790.7	-0.4	-0.4	8.5	3796.1	-5.4
243	0000 1101	3756.88	3817.5	-0.6	-0.3	26.8	3811.9	5.6
244	0000 1100	3772.50	3827.3	0.3	-0.1	9.8	3827.8	-0.5
245	0000 1011	3788.13	3850.0	0.2	0.4	22.7	3843.6	6.4
246	0000 1010	3803.75	3860.0	-0.2	0.4	9.9	3859.5	0.5
247	0000 1001	3819.38	3886.5	-0.6	-0.3	26.5	3875.4	11.1
248	0000 1000	3835.00	3895.6	-0.1	-0.4	9.1	3891.2	4.3
249	0000 0111	3850.63	3910.7	0.3	0.4	15.1	3907.1	3.6
250	0000 0110	3866.25	3921.0	0.3	0.3	10.3	3922.9	-1.9
251	0000 0101	3881.88	3946.9	-0.5	0.0	25.8	3938.8	8.1
252	0000 0100	3897.50	3965.4	-0.5	-0.4	18.5	3954.6	10.8
253	0000 0011	3913.13	3978.9	-0.2	-0.3	13.5	3970.5	8.4
254	0000 0010	3928.75	3991.0	0.2	0.4	12.1	3986.4	4.7
255	0000 0001	3944.38	4014.8	-0.2	0.5	23.8	4002.2	12.6

ORIGINAL PAGE IS
OF POOR QUALITY

1981/11/30 14:36:55 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=9)

S U M M A R Y

CHECK 1) RMS ERROR, 2) THRESHOLD INCREMENT(+/- 0.0 <= THRH INC <= 31.2)
THE REMAINING DATA ARE FOR INFORMATION ONLY

BEST FIT STRAIGHT LINE IS: Y =15.868X -40.8MV

DEVIATION OF SLOPE FROM IDEAL IS: 1.556%
OFFSET IS:-40.8MV
COEFFICIENT OF DETERMINATION IS: R**2= .99998170
ANALOG INPUT DURING DC RESTORE IS:64.4MV

RMS ERROR = 5.002MV REQMT: RMS ERROR <=7.812MV

THRESHOLD INCREMENT MEASUREMENT

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
26.8MV	243	15.941MV	0.9MV	241	5.846MV

LOWER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
1.1MV	237	-0.064MV	-3.9MV	113	.612MV

UPPER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
1.5MV	214	0.002MV	-1.0MV	216	.572MV

TEST PASSED

ORIGINAL PAGE IS
OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 526
1981/11/30 14:39:08 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=9)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
THE FOLLOWING DATA ARE FOR INFORMATION ONLY								
1	1111 1111	-24.375	-31.1	-1.3	-0.4		-24.9	-6.2
2	1111 1110	-8.750	-17.0	-0.5	-0.6	14.0	-9.1	-8.0
3	1111 1101	6.875	7.4	0.5	0.0	24.4	6.8	0.6
4	1111 1100	22.500	19.9	0.5	0.7	12.5	22.7	-2.7
5	1111 1011	38.125	36.0	-0.1	0.6	16.0	38.6	-2.6
6	1111 1010	53.750	54.8	-0.6	-0.5	18.8	54.4	0.4
7	1111 1001	69.375	75.4	-0.6	-0.6	20.6	70.3	5.1
8	1111 1000	85.000	80.2	0.5	0.4	4.8	86.2	-6.0
9	1111 0111	100.625	96.4	0.5	0.6	16.2	102.0	-5.6
10	1111 0110	116.250	113.4	-0.5	0.0	17.0	117.9	-4.5
11	1111 0101	131.875	136.0	-0.7	-0.6	22.6	133.8	2.2
12	1111 0100	147.500	152.6	-0.1	-0.5	16.6	149.6	3.0
13	1111 0011	163.125	163.8	0.5	0.6	11.2	165.5	-1.7
14	1111 0010	178.750	184.7	0.5	0.6	20.9	181.4	3.3
15	1111 0001	194.375	203.0	-0.6	-0.5	18.3	197.2	5.8
16	1111 0000	210.000	212.8	-0.6	-0.6	9.7	213.1	-0.3
17	1110 1111	225.625	223.4	0.5	0.0	10.6	229.0	-5.6
18	1110 1110	241.250	237.7	0.5	0.5	14.3	244.8	-7.1
19	1110 1101	256.875	262.4	-0.1	0.6	24.7	260.7	1.7
20	1110 1100	272.500	279.2	-0.6	-0.5	16.8	276.6	2.6
21	1110 1011	288.125	291.3	-0.6	-0.5	12.1	292.4	-1.1
22	1110 1010	303.750	309.7	0.5	0.6	18.4	308.3	1.4
23	1110 1001	319.375	329.8	0.6	0.6	20.0	324.2	5.6
24	1110 1000	335.000	342.4	-0.5	-0.1	12.6	340.0	2.4
25	1110 0111	350.625	351.7	-0.6	-0.5	9.3	355.9	-4.2

ORIGINAL PAGE IS OF POOR QUALITY

IAC FST 527

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 527
1981/11/30 14:39:08 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=9)

HAC TEST 527

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
26	1110 0110	366.250	368.5	-0.1	-0.5	16.7	371.8	-3.3
27	1110 0101	381.875	390.1	0.6	0.7	21.6	387.7	2.5
28	1110 0100	397.500	410.1	0.6	0.6	19.9	403.5	6.5
29	1110 0011	413.125	419.0	-0.6	-0.5	8.9	419.4	-0.4
30	1110 0010	428.750	440.4	-0.7	-0.6	21.4	435.3	5.1
31	1110 0001	444.375	457.2	0.6	0.1	16.7	451.1	6.0
32	1110 0000	460.000	463.7	0.5	0.5	6.5	467.0	-3.3
33	1101 1111	475.625	479.2	-0.0	0.6	15.5	482.9	-3.6
34	1101 1110	491.250	493.4	-0.6	-0.5	14.1	498.7	-5.4
35	1101 1101	506.875	518.9	-0.7	-0.6	25.5	514.6	4.3
36	1101 1100	522.500	530.8	0.5	0.6	11.9	530.5	0.4
37	1101 1011	538.125	546.4	0.5	0.6	15.6	546.3	0.1
38	1101 1010	553.750	564.9	-0.6	0.0	18.5	562.2	2.7
39	1101 1001	569.375	586.1	-0.6	-0.6	21.2	578.1	8.1
40	1101 1000	585.000	593.0	0.0	-0.5	6.9	593.9	-0.9
41	1101 0111	600.625	606.7	0.5	0.6	13.6	609.8	-3.1
42	1101 0110	616.250	622.7	0.4	0.5	16.0	625.7	-3.0
43	1101 0101	631.875	646.3	-0.7	-0.6	23.6	641.5	4.8
44	1101 0100	647.500	662.2	-0.7	-0.7	15.9	657.4	4.8
45	1101 0011	663.125	673.7	0.5	0.0	11.5	673.3	0.4
46	1101 0010	678.750	694.3	0.5	0.6	20.6	689.1	5.2
47	1101 0001	694.375	712.7	-0.0	0.5	18.4	705.0	7.7
48	1101 0000	710.000	726.7	-0.7	-0.6	14.0	720.9	5.8
49	1100 1111	725.625	733.7	-0.6	-0.6	6.9	736.8	-3.1
50	1100 1110	741.250	746.8	0.4	0.5	13.1	752.6	-5.8
51	1100 1101	756.875	771.8	0.5	0.6	25.0	768.5	3.3

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 528
1981/11/30 14:39:08 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=9)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
52	1100 1100	772.500	787.4	-0.7	-0.0	15.6	784.4	3.0
53	1100 1011	788.125	800.4	-0.6	-0.6	13.0	800.2	0.1
54	1100 1010	803.750	819.0	-0.0	-0.6	18.6	816.1	2.9
55	1100 1001	819.375	838.8	0.5	0.5	19.8	832.0	6.9
56	1100 1000	835.000	853.5	0.5	0.5	14.6	847.8	5.6
57	1100 0111	850.625	860.2	-0.6	-0.6	6.8	863.7	-3.5
58	1100 0110	866.250	876.4	-0.6	-0.6	16.2	879.6	-3.2
59	1100 0101	881.875	898.5	0.6	0.0	22.1	895.4	3.0
60	1100 0100	897.500	918.5	0.6	0.6	20.0	911.3	7.1
61	1100 0011	913.125	926.3	0.0	0.6	7.8	927.2	-0.9
62	1100 0010	928.750	947.7	-0.6	-0.5	21.4	943.0	4.7
63	1100 0001	944.375	965.8	-0.7	-0.7	18.1	958.9	6.9
64	1100 0000	960.000	975.7	0.6	0.6	9.9	974.8	0.9
65	1011 1111	975.625	987.9	0.6	0.6	12.2	990.6	-2.7
66	1011 1110	991.250	1002.2	-0.5	-0.0	14.3	1006.5	-4.3
67	1011 1101	1006.88	1027.7	-0.6	-0.6	25.5	1022.4	5.3
68	1011 1100	1022.50	1039.2	0.0	-0.6	11.5	1038.2	0.9
69	1011 1011	1038.13	1054.8	0.5	0.6	15.6	1054.1	0.7
70	1011 1010	1053.75	1073.2	0.5	0.6	18.4	1070.0	3.2
71	1011 1001	1069.38	1094.8	-0.6	-0.6	21.6	1085.9	8.9
72	1011 1000	1085.00	1097.5	-0.5	-0.6	2.7	1101.7	-4.2
73	1011 0111	1100.63	1114.5	0.5	0.0	17.0	1117.6	-3.1
74	1011 0110	1116.25	1130.6	0.6	0.5	16.0	1133.5	-2.9
75	1011 0101	1131.88	1153.7	0.0	0.7	23.1	1149.3	4.4
76	1011 0100	1147.50	1168.9	-0.6	-0.5	15.2	1165.2	3.7
77	1011 0011	1163.13	1181.7	-0.5	-0.5	12.8	1181.1	0.7
78	1011 0010	1178.75	1203.0	0.5	0.6	21.3	1196.9	6.1

ORIGINAL PAGE IS
OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 529

1981/11/30 14:39:08 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=9)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
79	1011 0001	1194.38	1220.8	0.6	0.7	17.8	1212.8	8.0
80	1011 0000	1210.00	1233.3	-0.5	-0.1	12.5	1228.7	4.7
81	1010 1111	1225.63	1240.6	-0.6	-0.6	7.3	1244.5	-3.9
82	1010 1110	1241.25	1254.5	-0.0	-0.5	13.8	1260.4	-5.9
83	1010 1101	1256.88	1279.1	0.7	0.6	24.7	1276.3	2.9
84	1010 1100	1272.50	1294.7	0.6	0.6	15.5	1292.1	2.5
85	1010 1011	1288.13	1307.3	-0.9	-0.9	12.6	1308.0	-0.7
86	1010 1010	1303.75	1326.3	-0.6	-0.6	19.0	1323.9	2.4
87	1010 1001	1319.38	1346.0	0.7	-0.0	19.7	1339.7	6.2
88	1010 1000	1335.00	1357.4	0.5	0.5	11.4	1355.6	1.8
89	1010 0111	1350.63	1366.2	0.1	0.6	8.8	1371.5	-5.3
90	1010 0110	1366.25	1383.1	-0.6	-0.6	16.9	1387.3	-4.2
91	1010 0101	1381.88	1406.1	-0.7	-0.6	23.0	1403.2	2.9
92	1010 0100	1397.50	1424.0	0.6	0.6	17.9	1419.1	5.0
93	1010 0011	1413.13	1432.9	0.5	0.5	8.9	1435.0	-2.0
94	1010 0010	1428.75	1456.2	-0.7	0.0	23.3	1450.8	5.4
95	1010 0001	1444.38	1472.4	-0.2	-0.2	16.1	1466.7	5.7
96	1010 0000	1460.00	1483.7	0.0	-0.6	11.3	1482.6	1.1
97	1001 1111	1475.63	1493.2	0.6	0.6	9.5	1498.4	-5.2
98	1001 1110	1491.25	1506.3	0.5	0.6	13.0	1514.3	-8.0
99	1001 1101	1506.88	1532.9	-0.6	-0.6	26.7	1530.2	2.8
100	1001 1100	1522.50	1544.4	-0.6	-0.6	11.4	1546.0	-1.7
101	1001 1011	1538.13	1559.8	0.6	-0.0	15.4	1561.9	-2.1
102	1001 1010	1553.75	1577.7	0.5	0.6	17.9	1577.8	-0.1
103	1001 1001	1569.38	1599.0	0.0	0.7	21.3	1593.6	5.3
104	1001 1000	1585.00	1604.9	-0.7	-0.6	5.9	1609.5	-4.6

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 530

1981/11/30 14:39:08 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=9)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
105	1001 0111	1600.63	1620.0	-0.6	-0.6	15.1	1625.4	-5.4
106	1001 0110	1616.25	1635.0	0.5	0.5	14.9	1641.2	-6.3
107	1001 0101	1631.88	1658.6	0.6	0.7	23.6	1657.1	1.5
108	1001 0100	1647.50	1673.6	-0.5	0.0	15.1	1673.0	0.7
109	1001 0011	1663.13	1686.6	-0.7	-0.6	12.9	1688.8	-2.2
110	1001 0010	1678.75	1707.8	0.0	-0.7	21.2	1704.7	3.1
111	1001 0001	1694.38	1724.6	0.6	0.7	16.8	1720.6	4.1
112	1001 0000	1710.00	1742.1	-0.1	-0.0	17.5	1736.4	5.7
113	1000 1111	1725.63	1749.2	-3.9	-0.5	7.1	1752.3	-3.1
114	1000 1110	1741.25	1758.8	-0.8	-0.8	9.6	1768.2	-9.3
115	1000 1101	1756.88	1784.2	0.6	0.0	25.3	1784.1	0.1
116	1000 1100	1772.50	1798.2	0.8	0.7	14.1	1799.9	-1.7
117	1000 1011	1788.13	1811.4	0.0	0.6	13.1	1815.8	-4.4
118	1000 1010	1803.75	1830.5	-0.7	-0.7	19.1	1831.7	-1.2
119	1000 1001	1819.38	1851.2	-0.6	-0.6	20.7	1847.5	3.7
120	1000 1000	1835.00	1865.1	0.6	0.6	13.9	1863.4	1.7
121	1000 0111	1850.63	1871.3	0.5	0.5	6.2	1879.3	-7.9
122	1000 0110	1866.25	1887.1	-0.4	0.0	15.8	1895.1	-8.0
123	1000 0101	1881.88	1910.8	-0.7	-0.6	23.7	1911.0	-0.2
124	1000 0100	1897.50	1929.3	0.0	-0.6	18.4	1926.9	2.4
125	1000 0011	1913.13	1937.4	0.5	0.6	8.2	1942.7	-5.3
126	1000 0010	1928.75	1959.7	0.6	0.6	22.2	1958.6	1.1
127	1000 0001	1944.38	1976.5	-0.7	-0.7	16.8	1974.5	2.0
128	1000 0000	1960.00	1993.3	-0.5	-0.5	16.8	1990.3	2.9
129	0111 1111	1975.63	2001.2	-0.1	-0.0	7.9	2006.2	-5.0
130	0111 1110	1991.25	2015.6	0.6	0.6	14.4	2022.1	-6.5

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 531

1981/11/30 14:39:08 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=P)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
131	0111 1101	2006.88	2040.5	-0.0	0.6	24.9	2037.9	2.6
132	0111 1100	2022.50	2055.1	-0.6	-0.6	14.6	2053.8	1.3
133	0111 1011	2038.13	2067.9	-0.6	-0.5	12.8	2069.7	-1.8
134	0111 1010	2053.75	2088.3	0.6	0.6	20.4	2085.5	2.8
135	0111 1001	2069.38	2107.8	0.6	0.6	19.4	2101.4	6.3
136	0111 1000	2085.00	2111.3	-0.5	0.0	3.5	2117.3	-6.0
137	0111 0111	2100.63	2127.5	-0.6	-0.5	16.2	2133.2	-5.7
138	0111 0110	2116.25	2144.9	0.0	-0.5	17.4	2149.0	-4.1
139	0111 0101	2131.88	2167.3	0.5	0.5	22.3	2164.9	2.4
140	0111 0100	2147.50	2184.1	0.7	0.7	16.8	2180.9	3.3
141	0111 0011	2163.13	2194.4	-0.7	-0.5	10.3	2196.6	-2.2
142	0111 0010	2178.75	2218.9	-0.8	-0.8	24.5	2212.5	6.4
143	0111 0001	2194.38	2234.5	0.7	-0.2	15.6	2228.4	6.1
144	0111 0000	2210.00	2244.0	0.5	0.5	9.5	2244.2	-0.2
145	0110 1111	2225.63	2252.5	-0.0	0.6	8.5	2260.1	-7.6
146	0110 1110	2241.25	2268.5	-0.6	-0.6	16.0	2276.0	-7.5
147	0110 1101	2256.88	2293.3	-0.7	-0.6	24.7	2291.8	1.4
148	0110 1100	2272.50	2310.2	0.7	0.6	17.0	2307 .	2.5
149	0110 1011	2288.13	2319.2	0.6	0.6	9.0	2323.6	-4.3
150	0110 1010	2303.75	2341.4	-0.6	0.0	22.2	2339.4	2.0
151	0110 1001	2319.38	2360.4	-0.7	-0.6	19.0	2355.3	5.1
152	0110 1000	2335.00	2373.3	0.0	-0.6	12.9	2371.2	2.1
153	0110 0111	2350.63	2378.8	0.5	0.5	5.6	2387.0	-8.2
154	0110 0110	2366.25	2396.5	0.6	0.7	17.7	2402.9	-6.4
155	0110 0101	2381.88	2419.6	-0.4	-0.4	23.1	2419.8	0.8
156	0110 0100	2397.50	2440.8	-0.8	-0.8	21.1	2434.6	6.1
157	0110 0011	2413.13	2445.5	0.6	0.0	4.8	2450.5	-5.0

ORIGINAL PAGE IS
OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 532
1981/11/30 14:39:08 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=9)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
158	0110 0010	2428.75	2468.5	0.7	0.7	23.0	2466.4	2.2
159	0110 0001	2444.38	2486.4	-0.1	0.1	17.8	2482.3	4.1
160	0110 0000	2460.00	2495.2	-0.7	-0.5	8.8	2498.1	-2.9
161	0101 1111	2475.63	2506.3	-0.6	-0.6	11.1	2514.0	-7.7
162	0101 1110	2491.25	2520.5	0.6	0.6	14.1	2529.9	-9.4
163	0101 1101	2506.88	2545.7	0.7	0.7	25.2	2545.7	0.0
164	0101 1100	2522.50	2560.9	-0.6	0.0	15.1	2561.6	-0.7
165	0101 1011	2538.13	2572.9	-0.4	-0.4	12.1	2577.5	-4.5
166	0101 1010	2553.75	2594.0	-0.0	-0.6	21.0	2593.3	0.6
167	0101 1001	2569.33	2613.1	0.1	0.1	19.1	2609.2	3.9
168	0101 1000	2585.00	2618.6	0.5	0.6	5.4	2625.1	-6.5
169	0101 0111	2600.63	2632.8	-0.6	-0.6	14.2	2640.9	-8.1
170	0101 0110	2616.25	2649.7	-0.6	-0.6	16.9	2656.8	-7.1
171	0101 0101	2631.88	2672.7	0.7	0.0	23.0	2672.7	0.0
172	0101 0100	2647.50	2689.7	0.4	0.6	17.0	2688.5	1.2
173	0101 0011	2663.13	2698.9	-0.0	0.7	9.2	2704.4	-5.5
174	0101 0010	2678.75	2723.5	-0.6	-0.6	24.6	2720.3	3.2
175	0101 0001	2694.38	2740.1	-0.1	-0.1	16.6	2736.1	3.9
176	0101 0000	2710.00	2753.7	0.7	0.7	13.6	2752.0	1.7
177	0100 1111	2725.63	2758.0	0.7	0.7	4.2	2767.9	-9.9
178	0100 1110	2741.25	2773.3	-0.6	-0.0	15.3	2783.7	-10.5
179	0100 1101	2756.88	2798.5	-0.6	-0.6	25.3	2799.6	-1.1
180	0100 1100	2772.50	2816.6	-0.0	-0.6	18.1	2815.5	1.2
181	0100 1011	2788.13	2824.6	0.6	0.6	7.9	2831.4	-6.8
182	0100 1010	2803.75	2845.7	0.6	0.6	21.1	2847.2	-1.5
183	0100 1001	2819.38	2866.0	-0.7	-0.7	20.3	2863.1	2.9

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 533
1981/11/30 14:39:08 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=9)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
184	0100 1000	2835.00	2881.5	-0.7	-0.8	15.5	2879.0	2.5
185	0100 0111	2850.63	2884.3	0.6	-0.0	2.8	2894.8	-10.5
186	0100 0110	2866.25	2901.4	0.5	0.6	17.1	2910.7	-9.3
187	0100 0101	2881.88	2924.9	-0.1	0.7	23.4	2926.6	-1.7
188	0100 0100	2897.50	2946.6	-0.7	-0.6	21.7	2942.4	4.2
189	0100 0011	2913.13	2951.7	-0.7	-0.6	5.1	2958.3	-6.6
190	0100 0010	2928.75	2973.5	0.6	0.7	21.8	2974.2	-0.6
191	0100 0001	2944.38	2992.2	-0.6	-0.2	18.7	2990.0	2.2
192	0100 0000	2960.00	3007.4	-0.6	0.0	15.1	3005.9	1.5
193	0011 1111	2975.63	3013.6	-0.8	-0.8	6.2	3021.8	-8.1
194	0011 1110	2991.25	3028.5	-0.1	-0.6	14.8	3037.6	-9.2
195	0011 1101	3006.88	3053.7	0.5	0.6	25.2	3053.5	0.2
196	0011 1100	3022.50	3066.6	0.5	0.6	12.9	3069.4	-2.7
197	0011 1011	3038.13	3080.8	-0.6	-0.6	14.1	3085.2	-4.4
198	0011 1010	3053.75	3102.4	-0.7	-0.7	21.6	3101.1	1.3
199	0011 1001	3069.38	3121.5	0.6	-0.0	19.1	3117.0	4.5
200	0011 1000	3085.00	3122.8	0.6	0.6	1.3	3132.8	-10.1
201	0011 0111	3100.63	3140.2	-0.1	0.6	17.4	3148.7	-8.5
202	0011 0110	3116.25	3157.9	-0.5	-0.4	17.7	3164.6	-6.6
203	0011 0101	3131.88	3182.0	0.0	-0.6	24.1	3180.5	1.6
204	0011 0100	3147.50	3197.1	0.6	0.6	15.0	3196.3	0.7
205	0011 0011	3163.13	3207.4	0.6	0.7	10.3	3212.2	-4.8
206	0011 0010	3178.75	3232.2	-0.7	0.0	24.8	3228.1	4.1
207	0011 0001	3194.38	3249.9	-0.8	-0.6	17.7	3243.9	5.9
208	0011 0000	3210.00	3262.1	0.0	-0.6	12.2	3259.8	2.3
209	0010 1111	3225.63	3266.7	0.8	0.9	4.6	3275.7	-9.0

ORIGINAL PAGE IS
OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 534

1981/11/30 14:39:08 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=9)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
210	0010 1110	3241.25	3281.9	-0.0	0.6	15.2	3291.5	-9.6
211	0010 1101	3256.88	3308.3	-1.0	-0.7	26.4	3307.4	0.9
212	0010 1100	3272.50	3325.4	-0.8	-0.7	17.0	3323.3	2.1
213	0010 1011	3288.13	3334.1	0.6	0.0	8.7	3339.1	-5.0
214	0010 1010	3303.75	3355.3	0.0	1.5	21.2	3355.0	0.3
215	0010 1001	3319.38	3375.6	0.0	0.8	20.3	3370.9	4.7
216	0010 1000	3335.00	3388.5	1.0	-1.0	12.9	3386.7	1.8
217	0010 0111	3350.63	3394.9	-0.1	-0.5	6.4	3402.6	-7.7
218	0010 0110	3366.25	3411.8	0.6	0.6	16.9	3418.5	-6.7
219	0010 0101	3381.88	3435.7	0.3	0.2	23.9	3434.3	1.4
220	0010 0100	3397.50	3456.2	-0.7	0.1	20.5	3450.2	6.0
221	0010 0011	3413.13	3462.4	-0.6	-0.6	6.2	3466.1	-3.7
222	0010 0010	3428.75	3488.0	-0.1	-0.7	25.6	3481.9	6.0
223	0010 0001	3444.38	3503.8	0.7	0.8	15.8	3497.8	6.0
224	0010 0000	3460.00	3515.0	-0.1	0.7	11.2	3513.7	1.3
225	0001 1111	3475.63	3523.7	-0.8	-0.7	8.6	3529.6	-5.9
226	0001 1110	3491.25	3537.9	-0.8	-0.7	14.2	3545.4	-7.5
227	0001 1101	3506.88	3564.0	0.6	0.1	26.1	3561.3	2.7
228	0001 1100	3522.50	3577.1	0.5	0.7	13.0	3577.2	-0.1
229	0001 1011	3538.13	3590.5	-0.0	0.7	13.4	3593.0	-2.5
230	0001 1010	3553.75	3612.4	-0.8	-0.7	21.9	3608.9	3.5
231	0001 1001	3569.38	3633.0	-0.1	-0.6	20.6	3624.8	8.2
232	0001 1000	3585.00	3636.1	0.7	0.6	3.1	3640.6	-4.5
233	0001 0111	3600.63	3651.2	0.6	0.7	15.1	3656.5	-5.3
234	0001 0110	3616.25	3668.6	-0.7	-0.0	17.4	3672.4	-3.7
235	0001 0101	3631.88	3693.4	-0.9	-0.8	24.7	3688.2	5.1
236	0001 0100	3647.50	3709.1	-0.1	-0.6	15.8	3704.1	5.0

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 535

1981/11/30 14:39:08 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=9)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
237	0001 0011	3663.13	3718.4	1.1	1.2	9.3	3720.0	-1.6
238	0001 0010	3678.75	3742.6	-0.1	0.8	24.2	3735.8	6.8
239	0001 0001	3694.38	3761.9	-0.9	-0.7	19.3	3751.7	10.2
240	0001 0000	3710.00	3778.1	-0.8	-0.6	16.2	3767.6	10.5
241	0000 1111	3725.63	3779.0	0.7	0.0	0.9	3783.4	-4.4
242	0000 1110	3741.25	3793.4	0.6	0.8	14.4	3799.3	-5.9
243	0000 1101	3756.88	3820.1	-0.2	0.8	26.8	3815.2	5.0
244	0000 1100	3772.50	3838.1	-0.8	-0.7	17.9	3831.0	7.0
245	0000 1011	3788.13	3847.4	-0.7	-0.7	9.3	3846.9	0.5
246	0000 1010	3803.75	3868.3	0.5	0.6	20.9	3862.8	5.5
247	0000 1001	3819.38	3888.7	0.5	0.7	20.4	3878.7	10.1
248	0000 1000	3835.00	3903.8	-0.2	0.0	15.1	3894.5	9.3
249	0000 0111	3850.63	3908.1	-0.5	-0.4	4.3	3910.4	-2.3
250	0000 0110	3866.25	3925.1	-0.1	-0.7	16.9	3926.3	-1.2
251	0000 0101	3881.88	3949.1	0.6	0.8	24.0	3942.1	7.0
252	0000 0100	3897.50	3969.2	0.5	0.7	20.0	3958.0	11.2
253	0000 0011	3913.13	3976.2	-0.7	-0.6	7.0	3973.9	2.3
254	0000 0010	3928.75	4000.8	-0.4	-0.2	24.6	3989.7	11.0
255	0000 0001	3944.38	4018.0	0.7	0.0	17.2	4005.6	12.4

ORIGINAL PAGE IS
OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 536
1981/11/30 14:45:31 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=10)

S U M M A R Y

CHECK 1) RMS ERROR, 2) THRESHOLD INCREMENT(+/- 0.0 <= THRH INC <= 31.2)
THE REMAINING DATA ARE FOR INFORMATION ONLY

BEST FIT STRAIGHT LINE IS: Y =15.873X -40.4MV

DEVIATION OF SLOPE FROM IDEAL IS: 1.589%
OFFSET IS:-40.4MV
COEFFICIENT OF DETERMINATION IS: R**2= .99998370
ANALOG INPUT DURING DC RESTORE IS:64.5MV

RMS ERROR = 4.808MV REQMT: RMS ERROR <=7.812MV

THRESHOLD INCREMENT MEASUREMENT

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
27.1MV	227	15.944MV	0.9MV	200	5.775MV

LOWER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
0.8MV	197	-0.058MV	-3.3MV	222	.514MV

UPPER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
5.6MV	161	0.061MV	-0.9MV	210	.699MV

TEST PASSED

ORIGINAL PAGE IS
OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 537

1981/11/30 14:45:44 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-B A/D THRESHOLD TEST (BAND= 3, SENSOR=10)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
THE FOLLOWING DATA ARE FOR INFORMATION ONLY								
1	1111 1111	-24.375	-32.0	0.5	0.9		-24.5	-7.5
2	1111 1110	-8.750	-17.5	-0.1	0.5	14.5	-8.7	-8.9
3	1111 1101	6.875	7.6	-0.6	-0.6	25.1	7.2	0.4
4	1111 1100	22.500	20.4	-0.6	-0.5	12.8	23.1	-2.7
5	1111 1011	38.125	35.4	0.5	0.0	15.0	39.0	-3.6
6	1111 1010	53.750	54.4	0.5	0.5	19.0	54.8	-0.4
7	1111 1001	69.375	74.4	-0.1	0.5	20.0	70.7	3.7
8	1111 1000	85.000	79.7	-0.5	-0.5	5.3	86.6	-6.9
9	1111 0111	100.625	96.7	-0.0	-0.5	17.0	102.5	-5.8
10	1111 0110	116.250	113.0	0.4	0.5	16.3	118.3	-5.3
11	1111 0101	131.875	135.3	0.4	0.5	22.2	134.2	1.1
12	1111 0100	147.500	152.0	-0.5	0.1	16.7	150.1	1.9
13	1111 0011	163.125	163.9	-0.6	-0.5	11.9	165.9	-2.1
14	1111 0010	178.750	185.6	-0.1	-0.5	21.7	181.8	3.8
15	1111 0001	194.375	202.2	0.4	0.5	16.6	197.7	4.5
16	1111 0000	210.000	211.4	0.0	0.5	9.2	213.6	-2.1
17	1110 1111	225.625	224.2	-0.7	-0.4	12.7	229.4	-5.3
18	1110 1110	241.250	238.6	-0.6	-0.5	14.5	245.3	-6.7
19	1110 1101	256.875	262.4	0.5	0.1	23.8	261.2	1.2
20	1110 1100	272.500	278.4	0.4	0.5	16.0	277.1	1.4
21	1110 1011	288.125	290.6	-0.1	0.5	12.2	292.9	-2.3
22	1110 1010	303.750	310.6	-0.5	-0.5	19.9	308.8	1.8
23	1110 1001	319.375	330.3	-0.1	-0.6	19.7	324.7	5.6
24	1110 1000	335.000	342.0	0.4	0.4	11.8	340.5	1.5
25	1110 0111	350.625	351.3	0.5	0.6	9.3	356.4	-5.1

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 538

1981/11/30 14:45:44 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=10) 10/30/81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
26	1110 0110	366.250	369.0	-0.5	0.0	17.7	372.3	-3.3
27	1110 0101	381.875	391.0	-0.7	-0.6	22.0	388.2	2.9
28	1110 0100	397.500	410.7	-0.1	-0.5	19.6	404.0	6.6
29	1110 0011	413.125	418.4	0.5	0.5	7.7	419.9	-1.6
30	1110 0010	428.750	440.5	-0.1	0.5	22.1	435.8	4.7
31	1110 0001	444.375	457.7	-0.6	-0.6	17.2	451.7	6.0
32	1110 0000	460.000	464.8	-0.4	-0.4	7.1	467.5	-2.8
33	1101 1111	475.625	481.1	-0.8	0.6	16.4	483.4	-2.3
34	1101 1110	491.250	493.5	0.4	0.4	12.4	499.3	-5.7
35	1101 1101	506.875	518.7	-0.1	0.5	25.2	515.2	3.6
36	1101 1100	522.500	531.5	-0.4	-0.5	12.8	531.0	0.5
37	1101 1011	538.125	547.3	-0.1	-0.5	15.8	546.9	0.4
38	1101 1010	553.750	565.2	0.4	0.5	17.9	562.8	2.4
39	1101 1001	569.375	585.8	0.5	0.6	20.6	578.6	7.2
40	1101 1000	585.000	593.2	-0.5	-0.0	7.4	594.5	-1.3
41	1101 0111	600.625	607.9	-0.6	-0.5	14.6	610.4	-2.5
42	1101 0110	616.250	624.0	-0.0	-0.6	16.2	626.3	-2.2
43	1101 0101	631.875	646.3	0.5	0.6	22.3	642.1	4.2
44	1101 0100	647.500	661.9	0.0	0.6	15.6	658.0	3.9
45	1101 0011	663.125	674.6	-0.6	-0.5	12.7	673.9	0.7
46	1101 0010	678.750	695.9	-0.5	-0.5	21.3	689.8	6.1
47	1101 0001	694.375	712.3	0.6	0.1	16.4	705.6	6.7
48	1101 0000	710.000	725.8	0.6	0.6	13.4	721.5	4.3
49	1100 1111	725.625	735.0	0.4	0.6	9.2	737.4	-2.4
50	1100 1110	741.250	748.2	-0.4	-0.5	13.2	753.3	-5.1
51	1100 1101	756.875	773.2	-0.1	-0.6	25.0	769.1	4.0

ORIGINAL PAGE IS OF POOR QUALITY

HS-206 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 539
1981/11/30 14:45:44 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=10)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVTATION
52	1100 1100	772.500	788.2	0.4	0.5	15.0	785.0	3.2
53	1100 1011	788.125	800.4	0.5	0.5	12.2	800.9	-0.5
54	1100 1010	803.750	819.9	-0.6	-0.0	19.5	816.7	3.2
55	1100 1001	819.375	839.4	-0.3	-0.3	19.5	832.6	6.8
56	1100 1000	835.000	854.7	-0.1	-0.3	15.3	848.5	6.2
57	1100 0111	850.625	860.7	0.5	0.6	6.0	864.4	-3.7
58	1100 0110	866.250	876.9	-0.0	0.5	16.3	880.2	-3.3
59	1100 0101	881.875	900.0	-0.7	-0.6	23.1	896.1	3.9
60	1100 0100	897.500	919.5	-0.4	-0.3	19.5	912.0	7.5
61	1100 0011	913.125	927.0	0.5	0.0	7.4	927.9	-0.9
62	1100 0010	928.750	948.4	0.5	0.5	21.5	943.7	4.7
63	1100 0001	944.375	964.8	-0.0	0.5	16.3	959.6	5.2
64	1100 0000	960.000	977.3	-0.5	-0.5	12.5	975.5	1.8
65	1011 1111	975.625	993.2	0.0	-0.5	15.9	991.4	1.9
66	1011 1110	991.250	1002.9	0.5	0.5	9.7	1007.2	-4.3
67	1011 1101	1006.88	1028.1	0.5	0.6	25.2	1023.1	5.0
68	1011 1100	1022.50	1040.3	-0.5	0.1	12.2	1039.0	1.4
69	1011 1011	1038.13	1056.1	-0.6	-0.6	15.8	1054.8	1.3
70	1011 1010	1053.75	1075.0	0.0	-0.5	18.8	1070.7	4.3
71	1011 1001	1069.38	1095.3	0.6	0.6	20.3	1086.6	8.7
72	1011 1000	1085.00	1097.8	-0.0	0.4	2.5	1102.5	-4.7
73	1011 0111	1100.63	1116.1	-0.5	-0.5	18.3	1118.3	-2.3
74	1011 0110	1116.25	1132.4	-0.5	-0.5	16.3	1134.2	-1.8
75	1011 0101	1131.88	1155.0	0.5	0.0	22.6	1150.1	4.9
76	1011 0100	1147.50	1169.6	0.6	0.7	14.5	1166.0	3.6
77	1011 0011	1163.13	1182.0	0.1	0.6	12.4	1181.8	0.2
78	1011 0010	1178.75	1204.9	-0.5	-0.5	22.9	1197.7	7.2

ORIGINAL PAGE IS
OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 540

1981/11/30 14:45:44 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-B A/D THRESHOLD TEST (BAND= 3, SENSOR=10)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
79	1011 0001	1194.38	1221.5	-0.1	-0.6	16.5	1213.6	7.9
80	1011 0000	1210.00	1232.4	0.5	0.5	10.9	1229.5	2.9
81	1010 1111	1225.63	1245.0	0.5	0.5	12.6	1245.3	-0.4
82	1010 1110	1241.25	1255.8	-0.5	0.0	10.8	1261.2	-5.4
83	1010 1101	1256.88	1280.8	-0.6	-0.6	25.0	1277.1	3.8
84	1010 1100	1272.50	1294.9	-0.1	0.9	14.0	1292.9	1.9
85	1010 1011	1288.13	1307.6	0.5	0.5	12.7	1308.8	-1.2
86	1010 1010	1303.75	1327.1	0.0	0.5	19.5	1324.7	2.4
87	1010 1001	1319.38	1347.8	-0.5	-0.5	20.7	1340.6	7.3
88	1010 1000	1335.00	1358.9	-0.5	-0.5	11.0	1356.4	2.4
89	1010 0111	1350.63	1367.5	0.6	0.0	8.6	1372.3	-4.8
90	1010 0110	1366.25	1383.9	0.6	0.5	16.4	1388.2	-4.3
91	1010 0101	1381.88	1406.8	0.0	0.6	22.9	1404.1	2.7
92	1010 0100	1397.50	1425.5	-0.5	-0.5	18.8	1419.9	5.6
93	1010 0011	1413.13	1434.3	-0.1	-0.6	8.8	1435.8	-1.5
94	1010 0010	1428.75	1456.1	0.2	0.2	21.8	1451.7	4.5
95	1010 0001	1444.38	1472.3	0.6	0.6	16.1	1467.6	4.7
96	1010 0000	1460.00	1484.8	-0.0	0.0	12.5	1483.4	1.4
97	1001 1111	1475.63	1498.7	-0.6	-0.5	13.8	1499.3	-0.6
98	1001 1110	1491.25	1508.1	-0.1	-0.6	9.5	1515.2	-7.0
99	1001 1101	1506.88	1533.4	0.6	0.6	25.3	1531.0	2.4
100	1001 1100	1522.50	1543.5	0.1	0.6	10.1	1546.9	-3.4
101	1001 1011	1538.13	1561.3	-0.6	-0.5	17.8	1562.8	-1.5
102	1001 1010	1553.75	1579.5	-0.6	-0.6	18.2	1578.7	0.9
103	1001 1001	1569.38	1600.4	0.5	-0.0	20.8	1594.5	5.8
104	1001 1000	1585.00	1605.0	0.7	0.6	4.6	1610.4	-5.4

ORIGINAL PAGE IS OF POOR QUALITY

NOV 30 '81

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 541

1981/11/30 14:45:44 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-B A/D THRESHOLD TEST (BAND= 3, SENSOR=10)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
105	1001 0111	1600.63	1624.4	-0.1	0.5	19.4	1626.3	-1.9
106	1001 0110	1616.25	1636.8	-0.5	-0.5	12.3	1642.2	-5.4
107	1001 0101	1631.88	1660.4	-0.0	-0.6	23.7	1658.0	2.4
108	1001 0100	1647.50	1674.2	0.5	0.6	13.8	1673.9	0.3
109	1001 0011	1663.13	1686.9	0.5	0.6	12.7	1689.8	-2.9
110	1001 0010	1678.75	1709.1	-0.5	0.0	22.2	1705.7	3.4
111	1001 0001	1694.38	1725.7	-0.5	-0.5	16.6	1721.5	4.2
112	1001 0000	1710.00	1742.1	-0.1	0.0	16.4	1737.4	4.7
113	1000 1111	1725.63	1749.8	0.5	0.5	7.7	1753.3	-3.5
114	1000 1110	1741.25	1759.5	0.1	0.5	9.7	1769.1	-9.7
115	1000 1101	1756.88	1785.8	-0.6	-0.6	26.3	1785.0	0.8
116	1000 1100	1772.50	1799.5	-0.6	-0.5	13.7	1800.9	-1.4
117	1000 1011	1788.13	1812.5	0.6	0.1	12.9	1816.8	-4.3
118	1000 1010	1803.75	1831.2	0.6	0.6	18.7	1832.6	-1.5
119	1000 1001	1819.38	1850.7	-0.0	1.9	19.5	1848.5	2.2
120	1000 1000	1835.00	1866.7	-0.5	-0.6	16.0	1864.4	2.3
121	1000 0111	1850.63	1876.4	-0.0	-0.5	9.7	1880.3	-3.9
122	1000 0110	1866.25	1888.0	0.5	0.5	11.6	1896.1	-8.2
123	1000 0101	1881.88	1911.4	0.4	0.6	23.4	1912.0	-0.6
124	1000 0100	1897.50	1930.1	-0.6	0.0	18.7	1927.9	2.2
125	1000 0011	1913.13	1938.9	-0.6	-0.6	8.9	1943.8	-4.8
126	1000 0010	1928.75	1961.5	0.0	-0.6	22.6	1959.6	1.9
127	1000 0001	1944.38	1976.4	0.6	0.6	14.8	1975.5	0.9
128	1000 0000	1960.00	1994.8	-0.0	0.4	18.4	1991.4	3.4
129	0111 1111	1975.63	2002.2	-0.6	-0.5	7.4	2007.2	-5.0
130	0111 1110	1991.25	2017.5	-0.6	-0.5	15.3	2023.1	-5.6

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 542

1981/11/30 14:45:44 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-B A/D THRESHOLD TEST (BAND= 3, SENSOR=10) NOV 30 '81

HAC TEST 527

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
131	0111 1101	2006.88	2041.8	0.5	0.0	24.3	2039.0	2.8
132	0111 1100	2022.50	2055.6	0.5	0.5	13.8	2054.9	0.8
133	0111 1011	2038.13	2068.5	0.0	0.5	17.8	2070.7	-2.3
134	0111 1010	2053.75	2090.2	-0.4	-0.5	21.7	2086.6	3.6
135	0111 1001	2069.38	2109.7	0.0	-0.5	19.4	2102.5	7.2
136	0111 1000	2085.00	2111.9	0.4	0.4	2.2	2118.4	-6.4
137	0111 0111	2100.63	2128.1	0.4	0.6	16.2	2134.2	-6.1
138	0111 0110	2116.25	2146.3	-0.9	-0.0	18.2	2150.1	-3.8
139	0111 0101	2131.88	2169.2	-0.6	-0.6	22.9	2166.0	3.3
140	0111 0100	2147.50	2186.1	-0.1	-0.5	16.9	2181.8	4.3
141	0111 0011	2163.13	2194.9	0.5	0.5	8.8	2197.7	-2.8
142	0111 0010	2178.75	2219.6	0.0	0.5	24.7	2213.6	6.0
143	0111 0001	2194.38	2235.4	-0.6	-0.5	15.8	2229.5	6.0
144	0111 0000	2210.00	2245.2	-0.6	-0.6	9.8	2245.3	-0.1
145	0110 1111	2225.63	2253.7	0.6	0.1	8.5	2261.2	-7.5
146	0110 1110	2241.25	2269.3	0.5	0.5	15.5	2277.1	-7.8
147	0110 1101	2256.88	2293.9	0.0	0.6	24.6	2293.0	0.9
148	0110 1100	2272.50	2312.6	-0.6	-0.6	18.7	2308.8	3.8
149	0110 1011	2288.13	2320.9	0.0	-0.4	8.3	2324.7	-3.8
150	0110 1010	2303.75	2342.2	0.5	0.5	21.3	2340.6	1.6
151	0110 1001	2319.38	2361.1	0.5	0.6	18.9	2356.5	4.7
152	0110 1000	2335.00	2374.2	-0.5	-0.0	13.1	2372.3	1.9
153	0110 0111	2350.63	2380.5	-0.6	-0.5	6.3	2388.2	-7.7
154	0110 0110	2366.25	2398.4	0.0	-0.6	17.8	2404.1	-5.7
155	0110 0101	2381.88	2420.5	0.6	0.6	22.1	2419.9	0.6
156	0110 0100	2397.50	2441.5	-0.0	0.5	20.9	2435.8	5.6
157	0110 0011	2413.13	2447.1	-0.6	-0.5	5.7	2451.7	-4.6

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 543

1981/11/30 14:45:44 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=10)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
158	0110 0010	2428.75	2470.4	-0.5	-0.5	23.2	2467.6	2.8
159	0110 0001	2444.38	2486.4	0.6	0.0	16.0	2483.4	3.0
160	0110 0000	2460.00	2495.0	0.5	0.5	8.6	2499.3	-4.3
161	0101 1111	2475.63	2507.1	-0.0	5.6	12.0	2515.2	-8.1
162	0101 1110	2491.25	2522.3	-0.5	-0.6	15.2	2531.1	-8.8
163	0101 1101	2506.88	2547.8	-0.0	-0.6	25.5	2546.9	0.8
164	0101 1100	2522.50	2561.5	0.5	0.5	13.7	2562.8	-1.3
165	0101 1011	2538.13	2573.7	0.5	0.6	12.2	2578.7	-5.0
166	0101 1010	2553.75	2595.3	-0.5	0.0	21.6	2594.6	0.7
167	0101 1001	2569.38	2615.1	-0.7	-0.6	19.9	2610.4	4.7
168	0101 1000	2585.00	2620.0	-0.1	-0.6	4.9	2626.3	-6.3
169	0101 0111	2600.63	2633.5	0.6	0.6	13.4	2642.2	-8.7
170	0101 0110	2616.25	2650.5	-0.0	0.5	17.0	2658.0	-7.6
171	0101 0101	2631.88	2674.7	-0.8	-0.7	24.2	2673.9	0.7
172	0101 0100	2647.50	2691.7	-0.6	-0.6	17.0	2689.8	1.9
173	0101 0011	2663.13	2700.1	0.5	0.1	8.4	2705.7	-5.6
174	0101 0010	2678.75	2724.3	0.5	0.6	24.2	2721.5	2.7
175	0101 0001	2694.38	2739.7	0.0	0.6	15.4	2737.4	2.3
176	0101 0000	2710.00	2754.6	-0.6	-0.6	14.8	2753.3	1.3
177	0100 1111	2725.63	2765.0	-0.1	-0.6	10.4	2769.2	-4.2
178	0100 1110	2741.25	2773.9	0.5	0.9	8.9	2785.0	-11.1
179	0100 1101	2756.88	2799.3	0.6	0.7	25.3	2800.9	-1.7
180	0100 1100	2772.50	2818.6	-0.6	0.0	19.3	2816.8	1.8
181	0100 1011	2788.13	2826.3	-0.6	-0.5	7.7	2832.7	-6.4
182	0100 1010	2803.75	2847.5	-0.1	-0.3	21.2	2848.5	-1.1
183	0100 1001	2819.38	2866.6	0.7	0.6	19.2	2864.4	2.2

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 544

1981/11/30 14:45:44 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=10)

HAC 527 NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
184	0100 1000	2835.00	2881.8	-0.1	0.6	15.2	2880.3	1.6
185	0100 0111	2850.63	2886.3	-0.6	-0.6	4.4	2896.1	-9.9
186	0100 0110	2866.25	2903.3	-0.6	-0.6	17.0	2912.0	-8.7
187	0100 0101	2881.88	2926.3	0.6	-0.0	23.0	2927.9	-1.6
188	0100 0100	2897.50	2947.1	0.6	0.6	20.8	2943.8	3.3
189	0100 0011	2913.13	2952.1	-0.0	0.7	5.0	2959.6	-7.6
190	0100 0010	2928.75	2975.4	-0.6	-0.6	23.3	2975.5	-0.1
191	0100 0001	2944.38	2992.3	-0.0	-0.6	16.9	2991.4	0.9
192	0100 0000	2960.00	3008.3	0.3	0.3	15.9	3007.3	1.0
193	0011 1111	2975.63	3014.4	0.5	0.5	6.1	3023.1	-8.8
194	0011 1110	2991.25	3029.8	-0.6	0.0	15.5	3039.0	-9.2
195	0011 1101	3006.88	3055.6	-0.6	-0.6	25.8	3054.9	0.8
196	0011 1100	3022.50	3068.5	0.0	-0.6	12.9	3070.8	-2.2
197	0011 1011	3038.13	3081.1	0.8	0.8	12.6	3086.6	-5.5
198	0011 1010	3053.75	3102.9	-0.1	0.5	21.8	3102.5	0.4
199	0011 1001	3069.38	3123.5	-0.7	-0.6	20.6	3118.4	5.1
200	0011 1000	3085.00	3124.5	-0.6	-0.6	0.9	3134.2	-9.8
201	0011 0111	3100.63	3141.5	0.4	0.0	17.0	3150.1	-8.7
202	0011 0110	3116.25	3158.8	0.4	0.4	17.4	3166.0	-7.2
203	0011 0101	3131.88	3182.9	-0.1	0.6	24.1	3181.9	1.1
204	0011 0100	3147.50	3199.0	-0.7	-0.7	16.1	3197.7	1.3
205	0011 0011	3163.13	3209.1	0.0	-0.6	10.1	3213.6	-4.5
206	0011 0010	3178.75	3232.9	0.5	0.6	23.8	3229.5	3.4
207	0011 0001	3194.38	3249.0	0.6	0.7	16.0	3245.4	3.6
208	0011 0000	3210.00	3261.6	-1.1	0.4	12.6	3261.2	0.3
209	0010 1111	3225.63	3268.9	-0.6	4.8	7.3	3277.1	-8.3

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 545

1981/11/30 14:45:44 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-3 A/D THRESHOLD TEST (BAND= 3, SENSOR=10)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
210	0010 1110	3241.25	3283.8	0.0	-0.9	15.0	3293.0	-9.1
211	0010 1101	3256.88	3309.0	0.5	0.6	25.1	3308.9	0.1
212	0010 1100	3272.50	3326.4	-0.1	0.6	17.4	3324.7	1.7
213	0010 1011	3288.13	3335.9	-0.6	-0.6	9.5	3340.6	-4.7
214	0010 1010	3303.75	3358.0	-0.6	-0.5	22.1	3356.5	1.5
215	0010 1001	3319.38	3377.2	0.5	0.9	19.2	3372.3	4.9
216	0010 1000	3335.00	3389.0	0.5	0.5	11.7	3388.2	0.7
217	0010 0111	3350.63	3395.8	-0.0	0.6	6.8	3404.1	-8.3
218	0010 0110	3366.25	3413.7	-0.6	-0.7	18.0	3420.0	-6.2
219	0010 0101	3381.88	3437.9	-0.1	-0.7	24.1	3435.8	2.0
220	0010 0100	3397.50	3456.9	0.5	0.5	19.0	3451.7	5.2
221	0010 0011	3413.13	3463.0	0.5	0.6	6.1	3467.6	-4.6
222	0010 0010	3428.75	3489.3	-3.3	0.0	26.3	3483.5	5.8
223	0010 0001	3444.38	3503.9	-0.6	-0.5	14.6	3499.3	4.6
224	0010 0000	3460.00	3516.5	0.0	-0.6	12.6	3515.2	1.3
225	0001 1111	3475.63	3529.6	0.5	0.7	13.1	3531.1	-1.4
226	0001 1110	3491.25	3538.7	-0.1	0.4	9.0	3547.0	-8.3
227	0001 1101	3506.88	3565.8	-0.8	-0.8	27.1	3562.8	3.0
228	0001 1100	3522.50	3579.2	-0.6	-0.5	13.4	3578.7	0.5
229	0001 1011	3538.13	3591.8	0.6	0.1	12.6	3594.6	-2.8
230	0001 1010	3553.75	3612.9	0.5	0.6	21.1	3610.4	2.4
231	0001 1001	3569.38	3634.4	-0.7	0.1	21.6	3626.3	8.1
232	0001 1000	3585.00	3637.5	-0.5	-0.6	3.1	3642.2	-4.7
233	0001 0111	3600.63	3653.3	-0.1	-0.5	15.7	3658.1	-4.8
234	0001 0110	3616.25	3669.2	0.5	0.6	15.9	3673.9	-4.7
235	0001 0101	3631.88	3694.2	-0.0	0.0	21.9	3689.8	4.3
236	0001 0100	3647.50	3710.2	-0.5	0.0	16.1	3705.7	4.5

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 546
1981/11/30 14:45:44 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-B A/D THRESHOLD TEST (BAND= 3, SENSOR=10)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
237	0001 0011	3663.13	3720.7	-0.6	-0.5	10.4	3721.6	-0.9
238	0001 0010	3678.75	3744.7	-0.1	-0.6	24.0	3737.4	7.2
239	0001 0001	3694.38	3760.5	0.5	0.6	15.8	3753.3	7.2
240	0001 0000	3710.00	3777.7	-0.1	0.5	17.2	3769.2	8.5
241	0000 1111	3725.63	3786.4	-0.8	-0.4	8.7	3785.1	1.4
242	0000 1110	3741.25	3795.3	-0.5	-0.5	8.8	3800.9	-5.6
243	0000 1101	3756.88	3821.3	0.6	0.0	26.0	3816.8	4.5
244	0000 1100	3772.50	3839.3	-0.1	-0.1	18.0	3832.7	6.6
245	0000 1011	3788.13	3848.1	-0.1	0.6	8.8	3848.5	-0.4
246	0000 1010	3803.75	3870.2	-0.7	-0.7	22.0	3864.4	5.7
247	0000 1001	3819.38	3890.8	-0.3	-0.6	20.6	3880.3	10.5
248	0000 1000	3835.00	3904.8	0.4	0.6	13.9	3896.2	8.6
249	0000 0111	3850.63	3909.2	0.6	0.7	4.4	3912.0	-2.9
250	0000 0110	3866.25	3926.3	-0.6	0.0	17.1	3927.9	-1.6
251	0000 0101	3881.88	3951.3	-0.9	-0.7	25.0	3943.8	7.5
252	0000 0100	3897.50	3971.0	-0.1	-0.7	19.7	3959.7	11.4
253	0000 0011	3913.13	3976.5	0.7	0.8	5.5	3975.5	1.0
254	0000 0010	3928.75	4002.1	-0.2	0.5	25.5	3991.4	10.7
255	0000 0001	3944.38	4017.7	-0.7	-0.4	15.6	4007.3	10.4

ORIGINAL PAGE IS
OF POOR QUALITY

HS-206 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 547
1981/11/30 14:52:07 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=11)

S U M M A R Y

CHECK 1) RMS ERROR, 2) THRESHOLD INCREMENT(+/- 0.0 <= THRH INC <= 31.2)
THE REMAINING DATA ARE FOR INFORMATION ONLY

BEST FIT STRAIGHT LINE IS: Y =15.863X -39.3MV

DEVIATION OF SLOPE FROM IDEAL IS: 1.522%
OFFSET IS:-39.3MV
COEFFICIENT OF DETERMINATION IS: R**2= .99998330
ANALOG INPUT DURING DC RESTORE IS:64.4MV

RMS ERROR = 4.788MV REQMT: RMS ERROR <=7.812MV

THRESHOLD INCREMENT MEASUREMENT

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
26.3MV	227	15.942MV	1.7MV	200	5.595MV

LOWER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
2.6MV	1	-0.084MV	-5.6MV	177	.701MV

UPPER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
3.0MV	1	0.046MV	-1.4MV	143	.600MV

TEST PASSED

ORIGINAL PAGE IS
OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 548
1981/11/30 14:52:20 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

HAC TEST S27

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=11)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
THE FOLLOWING DATA ARE FOR INFORMATION ONLY								
1	1111 1111	-24.375	-30.4	2.6	3.0		-23.4	-7.0
2	1111 1110	-8.750	-14.9	-0.0	-0.1	15.5	-7.6	-7.3
3	1111 1101	6.875	9.0	-0.8	-0.7	23.9	8.3	0.7
4	1111 1100	22.500	22.0	-0.7	-0.8	13.0	24.2	-2.1
5	1111 1011	38.125	36.9	0.5	0.5	14.9	40.0	-3.1
6	1111 1010	53.750	56.4	-0.1	-0.0	19.4	55.9	0.5
7	1111 1001	69.375	76.5	-0.7	0.0	20.1	71.8	4.8
8	1111 1000	85.000	82.3	-0.2	-0.2	5.8	87.6	-5.3
9	1111 0111	100.625	98.0	-0.0	-0.6	15.6	103.5	-5.5
10	1111 0110	116.250	115.5	-0.1	-0.1	17.5	119.3	-3.9
11	1111 0101	131.875	136.3	0.6	0.7	20.8	135.2	1.1
12	1111 0100	147.500	153.9	-0.7	-0.7	17.6	151.1	2.8
13	1111 0011	163.125	165.3	-0.6	-0.6	11.4	166.9	-1.7
14	1111 0010	178.750	187.3	-0.2	0.0	22.0	182.8	4.5
15	1111 0001	194.375	203.5	0.7	0.9	16.2	198.7	4.8
16	1111 0000	210.000	213.3	-0.1	0.4	9.8	214.5	-1.3
17	1110 1111	225.625	227.5	-0.7	-0.6	14.2	230.4	-2.9
18	1110 1110	241.250	240.1	0.1	0.1	12.7	246.2	-6.1
19	1110 1101	256.875	263.1	0.7	0.8	22.9	262.1	1.0
20	1110 1100	272.500	279.8	0.5	0.6	16.7	278.0	1.9
21	1110 1011	288.125	292.2	-0.6	0.0	12.3	293.8	-1.7
22	1110 1010	303.750	311.7	0.0	0.1	19.5	309.7	2.0
23	1110 1001	319.375	331.3	-0.1	-0.7	19.6	325.6	5.8
24	1110 1000	335.000	343.9	0.3	0.2	12.6	341.4	2.5
25	1110 0111	350.625	352.0	0.6	0.7	8.1	357.3	-5.3

ORIGINAL PAGE IS OF POOR QUALITY

1981/11/30 14:52:20 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=11)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
26	1110 0110	366.250	370.3	0.0	0.2	18.3	373.1	-2.9
27	1110 0101	381.875	391.7	-0.8	-0.6	21.4	389.0	2.7
28	1110 0100	397.500	411.1	0.7	0.1	19.4	404.9	6.2
29	1110 0011	413.125	419.2	0.5	0.6	8.1	420.7	-1.6
30	1110 0010	428.750	442.1	-0.0	-0.1	22.9	436.6	5.5
31	1110 0001	444.375	458.6	-0.9	-0.7	16.5	452.5	6.1
32	1110 0000	460.000	465.8	-0.3	-0.3	7.2	468.3	-2.6
33	1101 1111	475.625	482.6	0.7	1.0	16.8	484.2	-1.6
34	1101 1110	491.250	495.1	-0.1	-0.0	12.5	500.0	-5.0
35	1101 1101	506.875	519.7	-0.8	0.0	24.6	515.9	3.8
36	1101 1100	522.500	532.3	-0.4	-0.3	12.6	531.8	0.5
37	1101 1011	538.125	547.7	0.0	-0.5	15.4	547.6	0.1
38	1101 1010	553.750	566.2	-0.1	-0.0	18.4	563.5	2.7
39	1101 1001	569.375	586.3	0.6	0.7	20.1	579.4	6.9
40	1101 1000	585.000	594.3	-0.1	0.0	8.0	595.2	-0.9
41	1101 0111	600.625	608.0	-0.6	-0.6	13.6	611.1	-3.1
42	1101 0110	616.250	625.0	-0.2	0.0	17.0	626.9	-2.0
43	1101 0101	631.875	646.4	0.7	0.8	21.4	642.8	3.5
44	1101 0100	647.500	662.6	0.0	1.2	16.2	658.7	3.9
45	1101 0011	663.125	675.0	-0.6	-0.6	12.4	674.5	0.4
46	1101 0010	678.750	696.3	0.2	0.2	21.4	690.4	5.9
47	1101 0001	694.375	712.5	0.7	0.8	16.2	706.3	6.3
48	1101 0000	710.000	727.1	-0.1	0.1	14.6	722.1	5.0
49	1100 1111	725.625	737.0	-0.8	-0.0	9.9	738.0	-0.9
50	1100 1110	741.250	748.9	0.0	0.1	11.8	753.9	-5.0
51	1100 1101	756.875	773.2	-0.0	-0.7	24.3	769.7	3.5

ORIGINAL PAGE IS OF POOR QUALITY

1981/11/30 14:52:20 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=11)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
52	1100 1100	772.500	787.8	-1.3	0.2	14.6	785.6	2.2
53	1100 1011	788.125	800.4	0.5	0.5	12.6	801.4	-1.0
54	1100 1010	803.750	820.1	-0.1	-0.1	19.7	817.3	2.8
55	1100 1001	819.375	840.1	-0.7	-0.7	20.0	833.2	6.9
56	1100 1000	835.000	854.9	0.5	-0.1	14.9	849.0	5.9
57	1100 0111	850.625	860.2	0.7	0.7	5.3	864.9	-4.7
58	1100 0110	866.250	878.0	0.0	-0.1	17.7	880.8	-2.8
59	1100 0101	881.875	899.8	-0.8	-0.7	21.8	896.6	3.2
60	1100 0100	897.500	919.7	0.1	-0.7	19.9	912.5	7.2
61	1100 0011	913.125	926.9	0.5	0.5	7.2	928.3	-1.4
62	1100 0010	928.750	949.2	-0.1	-0.0	22.3	944.2	5.0
63	1100 0001	944.375	965.3	-0.7	0.2	16.1	960.1	5.2
64	1100 0000	960.000	977.5	-0.7	-0.6	12.2	975.9	1.5
65	1011 1111	975.625	992.8	0.0	-0.5	15.3	991.8	1.0
66	1011 1110	991.250	1003.5	0.1	0.1	10.7	1007.7	-4.1
67	1011 1101	1006.88	1027.5	0.7	0.7	24.0	1023.5	4.0
68	1011 1100	1022.50	1040.0	-0.6	-0.6	12.5	1039.4	0.6
69	1011 1011	1038.13	1056.0	-0.6	-0.5	16.0	1055.2	0.7
70	1011 1010	1053.75	1074.9	0.1	0.0	18.9	1071.1	3.8
71	1011 1001	1069.38	1094.8	0.6	0.7	19.9	1087.0	7.8
72	1011 1000	1085.00	1098.5	0.0	0.0	3.7	1102.8	-4.3
73	1011 0111	1100.63	1115.7	-0.6	-0.5	17.1	1118.7	-3.0
74	1011 0110	1116.25	1132.5	0.1	0.0	16.8	1134.6	-2.1
75	1011 0101	1131.88	1154.3	0.7	0.7	21.8	1150.4	3.9
76	1011 0100	1147.50	1169.1	1.5	1.5	14.8	1166.3	2.8
77	1011 0011	1163.13	1182.3	-0.5	0.1	13.2	1182.1	0.2
78	1011 0010	1178.75	1204.4	-0.1	-0.1	22.0	1198.0	6.4

HAC TEST 521
10 30 81
ORIGINAL PAGE IS OF POOR QUALITY

1981/11/30 14:52:20 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=11)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
79	1011 0001	1194.38	1221.9	-0.2	-1.3	17.5	1213.9	8.1
80	1011 0000	1210.00	1233.5	-0.2	-0.3	11.5	1229.7	3.8
81	1010 1111	1225.63	1244.2	0.6	0.7	10.7	1245.6	-1.4
82	1010 1110	1241.25	1255.8	0.0	0.1	11.6	1261.5	-5.7
83	1010 1101	1256.88	1280.2	-0.8	-0.7	24.4	1277.3	2.9
84	1010 1100	1272.50	1295.3	0.6	0.1	15.1	1293.2	2.1
85	1010 1011	1288.13	1307.3	0.5	0.5	12.0	1309.0	-1.7
86	1010 1010	1303.75	1327.2	0.1	0.1	19.8	1324.9	2.2
87	1010 1001	1319.38	1347.2	-0.6	-0.6	20.0	1340.8	6.4
88	1010 1000	1335.00	1358.9	-0.0	-0.1	11.7	1356.6	2.3
89	1010 0111	1350.63	1366.9	0.6	0.5	7.9	1372.5	-5.6
90	1010 0110	1366.25	1384.5	0.0	0.0	17.6	1388.4	-3.9
91	1010 0101	1381.88	1406.6	-0.7	0.0	22.2	1404.2	2.4
92	1010 0100	1397.50	1425.2	-0.4	-0.4	18.5	1420.1	5.1
93	1010 0011	1413.13	1434.0	0.0	-0.6	8.8	1435.9	-2.0
94	1010 0010	1428.75	1456.9	-0.1	0.0	22.9	1451.8	5.1
95	1010 0001	1444.38	1471.8	0.8	1.1	14.9	1467.7	4.2
96	1010 0000	1460.00	1484.6	0.3	0.3	12.7	1483.5	1.0
97	1001 1111	1475.63	1498.1	-0.8	-0.6	13.5	1499.4	-1.3
98	1001 1110	1491.25	1513.0	-5.0	-0.1	14.9	1515.3	-2.2
99	1001 1101	1506.88	1532.2	0.5	0.6	19.2	1531.1	1.1
100	1001 1100	1522.50	1544.5	0.0	0.5	12.3	1547.0	-2.5
101	1001 1011	1538.13	1560.7	-0.4	-0.3	16.2	1562.9	-2.2
102	1001 1010	1553.75	1579.4	-0.1	-0.3	18.7	1578.7	0.6
103	1001 1001	1569.38	1599.5	0.7	0.7	20.1	1594.6	4.9
104	1001 1000	1585.00	1605.9	-0.0	0.2	6.3	1610.4	-4.6

ORIGINAL PAGE IS OF POOR QUALITY

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=11)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
105	1001 0111	1600.63	1620.4	-0.6	0.0	14.5	1626.3	-5.9
106	1001 0110	1616.25	1636.7	0.0	0.0	16.3	1642.2	-5.4
107	1001 0101	1631.88	1659.6	-0.0	-0.8	22.9	1658.0	1.6
108	1001 0100	1647.50	1673.7	0.6	0.6	14.0	1673.9	-0.2
109	1001 0011	1663.13	1686.6	-0.1	0.5	12.9	1689.8	-3.2
110	1001 0010	1678.75	1708.5	-0.1	-0.1	21.9	1705.6	2.9
111	1001 0001	1694.38	1725.4	-0.7	-0.7	16.9	1721.5	3.9
112	1001 0000	1710.00	1742.1	-0.1	0.0	16.7	1737.3	4.8
113	1000 1111	1725.63	1748.9	0.7	0.8	6.8	1753.2	-4.3
114	1000 1110	1741.25	1759.9	-0.1	0.0	11.0	1769.1	-9.1
115	1000 1101	1756.88	1784.4	-0.7	-0.7	24.4	1784.9	-0.5
116	1000 1100	1772.50	1799.6	-0.2	-0.7	15.2	1800.8	-1.2
117	1000 1011	1788.13	1811.7	0.6	0.7	12.1	1816.7	-4.9
118	1000 1010	1803.75	1830.8	0.4	0.5	19.1	1832.5	-1.7
119	1000 1001	1819.38	1851.8	-0.8	-0.0	21.0	1848.4	3.4
120	1000 1000	1835.00	1866.7	-0.5	-0.5	14.9	1864.2	2.5
121	1000 0111	1850.63	1872.0	-0.0	3.0	5.3	1880.1	-8.1
122	1000 0110	1866.25	1888.4	0.0	0.0	16.3	1896.0	-7.6
123	1000 0101	1881.88	1910.2	0.0	0.7	21.9	1911.8	-1.6
124	1000 0100	1897.50	1929.7	-0.6	-0.5	19.4	1927.7	2.0
125	1000 0011	1913.13	1938.4	-0.7	-0.7	8.7	1943.6	-5.1
126	1000 0010	1928.75	1960.9	0.0	-0.1	22.5	1959.4	1.5
127	1000 0001	1944.38	1976.1	0.6	0.6	15.2	1975.3	0.8
128	1000 0000	1960.00	1993.9	-0.1	0.5	17.8	1991.1	2.8
129	0111 1111	1975.63	2001.4	-0.5	-0.5	7.5	2007.0	-5.6
130	0111 1110	1991.25	2017.2	0.0	-0.1	15.8	2022.9	-5.6

ORIGINAL PAGE IS
OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 553

1981/11/30 14:52:20 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-B A/D THRESHOLD TEST (BAND= 3, SENSOR=11)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
131	0111 1101	2006.88	2040.7	0.8	0.9	23.4	2038.7	1.9
132	0111 1100	2022.50	2054.9	0.6	0.6	14.2	2054.6	0.3
133	0111 1011	2038.13	2068.4	-0.6	-0.1	13.5	2070.5	-2.0
134	0111 1010	2053.75	2089.9	-0.2	-0.2	21.5	2086.3	3.6
135	0111 1001	2069.38	2108.8	-0.0	-0.7	18.9	2102.2	6.6
136	0111 1000	2085.00	2111.9	0.4	0.1	3.1	2118.0	-6.1
137	0111 0111	2100.63	2127.4	-0.0	0.6	15.5	2133.9	-6.5
138	0111 0110	2116.25	2145.7	0.2	0.3	18.3	2149.8	-4.0
139	0111 0101	2131.88	2168.2	-0.7	-0.6	22.5	2165.6	2.6
140	0111 0100	2147.50	2184.8	0.6	-0.1	16.6	2181.5	3.3
141	0111 0011	2163.13	2194.3	0.5	0.6	9.5	2197.4	-3.1
142	0111 0010	2178.75	2219.1	0.1	0.2	24.8	2213.2	5.9
143	0111 0001	2194.38	2235.7	-1.3	-1.4	16.6	2229.1	6.6
144	0111 0000	2210.00	2245.1	0.0	-0.7	9.4	2244.9	0.1
145	0110 1111	2225.63	2252.8	0.6	0.6	7.7	2260.8	-8.0
146	0110 1110	2241.25	2269.5	0.0	0.0	16.6	2276.7	-7.2
147	0110 1101	2256.88	2293.5	-0.8	-0.0	24.1	2292.5	1.0
148	0110 1100	2272.50	2311.7	-0.7	-0.7	18.1	2308.4	3.3
149	0110 1011	2288.13	2320.2	-0.0	-0.5	8.5	2324.3	-4.1
150	0110 1010	2303.75	2342.0	0.1	0.1	21.8	2340.1	1.8
151	0110 1001	2319.38	2359.9	-0.0	0.7	18.0	2356.0	4.0
152	0110 1000	2335.00	2374.1	-0.1	-0.1	14.1	2371.8	2.2
153	0110 0111	2350.63	2379.6	-0.2	-0.5	5.5	2387.7	-8.1
154	0110 0110	2366.25	2398.1	-0.1	-0.1	18.5	2403.6	-5.4
155	0110 0101	2381.88	2419.4	0.2	0.2	21.3	2419.4	-0.0
156	0110 0100	2397.50	2440.6	-0.1	0.5	21.2	2435.3	5.3
157	0110 0011	2413.13	2446.5	-0.6	-0.6	5.8	2451.2	-4.7

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 554

1981/11/30 14:52:20 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=11)

HAC TEST 527

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
158	0110 0010	2428.75	2469.3	0.1	2.4	23.4	2467.0	2.8
159	0110 0001	2444.38	2485.9	1.4	1.4	16.0	2482.9	3.0
160	0110 0000	2460.00	2494.6	0.3	0.3	8.7	2498.8	-4.2
161	0101 1111	2475.63	2506.6	-0.6	0.0	12.0	2514.6	-8.0
162	0101 1110	2491.25	2521.9	-0.2	-0.2	15.3	2530.5	-8.6
163	0101 1101	2506.88	2546.6	0.1	-0.6	24.7	2546.3	0.2
164	0101 1100	2522.50	2560.5	0.5	0.6	13.9	2562.2	-1.7
165	0101 1011	2538.13	2573.0	-0.1	0.1	12.5	2578.1	-5.1
166	0101 1010	2553.75	2594.7	-0.4	-0.3	21.7	2593.9	0.8
167	0101 1001	2569.38	2614.1	-0.8	-0.8	19.3	2609.8	4.3
168	0101 1000	2585.00	2619.8	0.0	-0.1	5.8	2625.7	-5.8
169	0101 0111	2600.63	2632.5	0.5	0.6	12.6	2641.5	-9.0
170	0101 0110	2616.25	2650.6	0.0	0.0	18.2	2657.4	-6.7
171	0101 0101	2631.88	2673.6	-0.6	-0.7	22.9	2673.2	0.3
172	0101 0100	2647.50	2690.6	0.0	-0.4	17.0	2689.1	1.5
173	0101 0011	2663.13	2699.2	0.6	0.6	8.6	2705.0	-5.7
174	0101 0010	2678.75	2723.6	0.3	0.2	24.4	2720.8	2.8
175	0101 0001	2694.38	2740.8	-0.8	-0.1	17.2	2736.7	4.1
176	0101 0000	2710.00	2754.3	-0.1	-0.0	13.5	2752.6	1.8
177	0100 1111	2725.63	2764.4	-5.6	-0.7	10.1	2768.4	-4.0
178	0100 1110	2741.25	2774.0	0.1	0.1	9.5	2784.3	-10.3
179	0100 1101	2756.88	2798.1	-0.1	0.6	24.1	2800.1	-2.1
180	0100 1100	2772.50	2817.1	-0.4	-0.3	19.0	2816.0	1.1
181	0100 1011	2788.13	2825.4	-0.5	-0.5	8.3	2831.9	-6.5
182	0100 1010	2803.75	2846.9	0.0	0.0	21.5	2847.7	-0.8
183	0100 1001	2819.38	2865.5	0.6	0.6	18.6	2863.6	1.9

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 555
1981/11/30 14:52:20 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=11)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
184	0100 1000	2835.00	2882.0	-0.1	0.1	16.4	2879.5	2.5
185	0100 0111	2850.63	2885.1	-0.7	-0.6	3.2	2895.3	-10.2
186	0100 0110	2866.25	2902.8	0.0	0.0	17.7	2911.2	-8.4
187	0100 0101	2881.88	2925.0	0.7	0.7	22.2	2927.0	-2.1
188	0100 0100	2897.50	2946.2	0.6	0.6	21.2	2942.9	3.3
189	0100 0011	2913.13	2951.9	-0.6	-0.0	5.8	2958.8	-6.8
190	0100 0010	2928.75	2977.4	-0.2	-0.2	25.4	2974.6	2.7
191	0100 0001	2944.38	2991.7	0.0	0.0	14.3	2990.5	1.2
192	0100 0000	2960.00	3007.5	1.1	1.1	15.7	3006.4	1.1
193	0011 1111	2975.63	3013.2	-0.1	0.6	5.7	3022.2	-9.0
194	0011 1110	2991.25	3028.9	0.0	0.1	15.7	3038.1	-9.2
195	0011 1101	3006.88	3054.3	-0.8	-0.6	25.4	3053.9	0.4
196	0011 1100	3022.50	3066.9	0.5	-0.0	12.5	3069.8	-2.9
197	0011 1011	3038.13	3080.4	0.5	0.9	13.5	3085.7	-5.3
198	0011 1010	3053.75	3102.2	-0.0	0.4	21.8	3101.5	0.7
199	0011 1001	3069.38	3122.3	-0.8	-0.9	20.1	3117.4	4.9
200	0011 1000	3085.00	3123.9	0.1	-0.3	1.7	3133.3	-9.3
201	0011 0111	3100.63	3140.4	0.4	0.5	16.4	3149.1	-8.8
202	0011 0110	3116.25	3158.7	-0.0	0.1	18.4	3165.0	-6.2
203	0011 0101	3131.88	3182.0	-0.8	0.0	23.3	3180.8	1.2
204	0011 0100	3147.50	3197.7	-0.5	-0.5	15.7	3196.7	1.0
205	0011 0011	3163.13	3208.2	0.0	-0.6	10.5	3212.6	-4.4
206	0011 0010	3178.75	3232.4	0.1	0.1	24.2	3228.4	4.0
207	0011 0001	3194.38	3249.2	-0.1	0.6	16.8	3244.3	4.9
208	0011 0000	3210.00	3261.8	0.0	0.0	12.6	3260.2	1.6
209	0010 1111	3225.63	3267.5	-0.6	-0.6	5.7	3276.0	-8.6

ORIGINAL PAGE IS
OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 556

1981/11/30 14:52:20 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=11)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
210	0010 1110	3241.25	3283.0	-0.2	0.0	15.6	3291.9	-8.8
211	0010 1101	3256.88	3307.2	1.0	1.1	24.1	3307.8	-0.6
212	0010 1100	3272.50	3325.1	-0.1	0.5	18.0	3323.6	1.5
213	0010 1011	3288.13	3334.9	-0.6	-0.6	9.7	3339.5	-4.6
214	0010 1010	3303.75	3357.2	-0.1	-0.4	22.3	3355.3	1.8
215	0010 1001	3319.38	3375.6	0.7	0.8	18.4	3371.2	4.4
216	0010 1000	3335.00	3388.9	-0.1	0.2	13.3	3387.1	1.8
217	0010 0111	3350.63	3395.0	-0.6	0.0	6.0	3402.9	-8.0
218	0010 0110	3366.25	3413.1	-0.1	0.0	18.1	3418.8	-5.7
219	0010 0101	3381.88	3436.0	0.0	-0.3	22.9	3434.7	1.3
220	0010 0100	3397.50	3455.7	0.7	0.7	19.7	3450.5	5.1
221	0010 0011	3413.13	3462.0	-0.0	0.4	6.3	3466.4	-4.4
222	0010 0010	3428.75	3488.2	-0.4	-0.3	26.2	3482.2	5.9
223	0010 0001	3444.38	3504.5	-0.7	-0.7	16.3	3498.1	6.4
224	0010 0000	3460.00	3515.1	0.7	0.1	10.6	3514.0	1.2
225	0001 1111	3475.63	3522.9	0.6	0.6	7.8	3529.8	-6.9
226	0001 1110	3491.25	3538.2	-0.1	0.3	15.3	3545.7	-7.5
227	0001 1101	3506.88	3564.5	-0.7	-0.6	26.3	3561.6	3.0
228	0001 1100	3522.50	3577.9	-0.0	-0.6	13.3	3577.4	0.5
229	0001 1011	3538.13	3590.8	0.4	0.6	12.9	3591.3	-2.5
230	0001 1010	3553.75	3612.1	0.3	0.5	21.4	3609.1	3.0
231	0001 1001	3569.38	3632.9	-0.8	0.0	20.7	3625.0	7.9
232	0001 1000	3585.00	3637.4	-0.4	-0.4	4.5	3640.9	-3.5
233	0001 0111	3600.63	3651.8	-0.1	-0.7	14.4	3656.7	-4.9
234	0001 0110	3616.25	3669.1	0.1	0.1	17.2	3672.6	-3.5
235	0001 0101	3631.88	3692.5	-0.1	0.8	23.4	3688.5	4.0
236	0001 0100	3647.50	3709.1	-0.6	-0.6	16.6	3704.3	4.8

ORIGINAL PAGE IS OF POOR QUALITY

1981/11/30 14:52:20 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=11)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
237	0001 0011	3663.13	3719.6	-0.6	-0.5	10.5	3720.2	-0.6
238	0001 0010	3678.75	3743.6	0.1	0.1	24.1	3736.0	7.6
239	0001 0001	3694.38	3761.2	0.7	0.8	17.5	3751.9	9.3
240	0001 0000	3710.00	3777.8	-0.1	-0.1	16.6	3767.8	10.1
241	0000 1111	3725.63	3779.6	-0.5	-0.5	1.8	3783.6	-4.0
242	0000 1110	3741.25	3794.6	-0.1	-0.1	15.0	3799.5	-4.9
243	0000 1101	3756.88	3820.0	0.5	0.7	25.4	3815.4	4.6
244	0000 1100	3772.50	3837.6	0.5	0.6	17.6	3831.2	6.4
245	0000 1011	3788.13	3847.6	-0.9	0.0	10.0	3847.1	0.5
246	0000 1010	3803.75	3869.2	-0.6	-0.4	21.7	3862.9	6.3
247	0000 1001	3819.38	3888.5	0.6	0.0	19.3	3878.8	9.7
248	0000 1000	3835.00	3903.8	-0.1	0.0	15.3	3894.7	9.1
249	0000 0111	3850.63	3907.6	-0.1	0.5	3.8	3910.5	-2.9
250	0000 0110	3866.25	3925.6	-0.3	0.0	18.0	3926.4	-0.8
251	0000 0101	3881.88	3949.7	-0.9	-0.7	24.1	3942.3	7.5
252	0000 0100	3897.50	3969.3	0.3	0.1	19.5	3958.1	11.2
253	0000 0011	3913.13	3975.7	0.4	0.5	6.4	3974.0	1.7
254	0000 0010	3928.75	4001.4	-0.7	-0.7	25.7	3989.8	11.5
255	0000 0001	3944.38	4018.7	-0.7	-0.7	17.3	4005.7	13.0

ORIGINAL PAGE IS
OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 558
1981/11/30 14:58:43 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-13 A/D THRESHOLD TEST (BAND= 3, SENSOR=12)

S U M M A R Y

CHECK 1) RMS ERROR, 2) THRESHOLD INCREMENT(+/- 0.0 <= THRH INC <= 31.2)
THE REMAINING DATA ARE FOR INFORMATION ONLY

BEST FIT STRAIGHT LINE IS: Y =15.874X -40.1MV

DEVIATION OF SLOPE FROM IDEAL IS: 1.594%
OFFSET IS:-40.1MV
COEFFICIENT OF DETERMINATION IS: R**2= .99998400
ANALOG INPUT DURING DC RESTORE IS:64.5MV

RMS ERROR = 4.819MV REQMT: RMS ERROR <=7.812MV

THRESHOLD INCREMENT MEASUREMENT

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
26.7MV	243	15.940MV	2.1MV	200	5.661MV

LOWER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
1.1MV	244	-0.052MV	-1.9MV	13	.543MV

UPPER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
0.8MV	115	-0.020MV	-1.1MV	94	.531MV

TEST PASSED

ORIGINAL PAGE IS
OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL., FLT. S/N 3 PAGE 559

1981/11/30 14:58:56 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=12)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
THE FOLLOWING DATA ARE FOR INFORMATION ONLY								
1	1111 1111	-24.375	-30.6	-0.8	-0.4		-24.2	-6.4
2	1111 1110	-8.750	-16.7	0.4	0.5	13.8	-8.3	-8.4
3	1111 1101	6.875	7.6	0.6	0.7	24.3	7.5	0.1
4	1111 1100	22.500	20.9	-0.6	0.0	13.3	23.4	-2.5
5	1111 1011	38.125	36.9	-0.7	-0.6	16.0	39.3	-2.4
6	1111 1010	53.750	55.0	0.4	0.0	18.1	55.2	-0.2
7	1111 1001	69.375	75.1	0.4	0.4	20.1	71.0	4.1
8	1111 1000	85.000	80.8	-0.0	0.6	5.7	86.9	-6.1
9	1111 0111	100.625	97.5	-0.6	-0.5	16.7	102.8	-5.3
10	1111 0110	116.250	114.3	-0.6	-0.5	16.8	118.6	-4.3
11	1111 0101	131.875	135.8	0.5	-0.0	21.5	134.5	1.3
12	1111 0100	147.500	151.8	0.5	0.5	16.0	150.4	1.4
13	1111 0011	163.125	164.8	-1.9	-0.0	13.0	166.3	-1.5
14	1111 0010	178.750	186.4	-0.7	-0.6	21.6	182.1	4.3
15	1111 0001	194.375	203.3	-0.1	-0.6	16.9	198.0	5.3
16	1111 0000	210.000	212.3	0.5	0.6	8.9	213.9	-1.6
17	1110 1111	225.625	224.2	0.5	0.6	11.9	229.8	-5.5
18	1110 1110	241.250	239.3	-0.5	0.0	15.1	245.6	-6.3
19	1110 1101	256.875	263.5	-0.8	-0.7	24.2	261.5	2.0
20	1110 1100	272.500	278.3	0.3	-0.1	14.8	277.4	1.0
21	1110 1011	288.125	291.4	0.5	0.5	13.1	293.3	-1.8
22	1110 1010	303.750	310.7	-0.1	0.7	19.2	309.1	1.6
23	1110 1001	319.375	330.8	-0.6	-0.5	20.1	325.0	5.8
24	1110 1000	335.000	343.5	-0.5	-0.5	12.8	340.9	2.7
25	1110 0111	350.625	351.9	0.5	0.0	8.4	356.8	-4.8

ORIGINAL PAGE IS
OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNTT TEST MODEL.. FLT. S/N 3 PAGE 560

1981/11/30 14:58:56 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=12)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
26	1110 0110	366.250	369.0	0.5	0.5	17.1	372.6	-3.6
27	1110 0101	381.875	391.5	-0.8	-0.0	22.5	388.5	3.0
28	1110 0100	397.500	411.0	-0.7	-0.6	19.5	404.4	6.6
29	1110 0011	413.125	419.6	-0.0	-0.5	8.6	420.3	-0.6
30	1110 0010	428.750	440.9	0.5	0.5	21.3	436.1	4.8
31	1110 0001	444.375	457.4	0.7	0.7	16.5	452.0	5.4
32	1110 0000	460.000	465.1	-0.5	0.0	7.6	467.9	-2.8
33	1101 1111	475.625	480.8	-0.6	-0.5	15.7	483.7	-3.0
34	1101 1110	491.250	493.9	0.5	0.0	13.1	499.6	-5.7
35	1101 1101	506.875	518.9	0.7	0.8	25.0	515.5	3.4
36	1101 1100	522.500	531.1	-0.1	0.5	12.2	531.4	-0.3
37	1101 1011	538.125	547.8	-0.6	-0.5	16.7	547.2	0.6
38	1101 1010	553.750	565.9	-0.5	-0.5	18.1	563.1	2.8
39	1101 1001	569.375	586.2	0.5	0.0	20.3	579.0	7.2
40	1101 1000	585.000	593.7	0.4	0.4	7.5	594.9	-1.1
41	1101 0111	600.625	608.2	-0.6	0.0	14.5	610.7	-2.5
42	1101 0110	616.250	624.3	-0.5	-0.5	16.1	626.6	-2.3
43	1101 0101	631.875	647.2	-0.0	-0.6	22.8	642.5	4.7
44	1101 0100	647.500	662.0	0.5	0.6	14.8	658.4	3.6
45	1101 0011	663.125	674.6	0.4	0.5	12.6	674.2	0.4
46	1101 0010	678.750	696.4	-0.7	-0.0	21.8	690.1	6.3
47	1101 0001	694.375	713.4	-0.9	-0.7	17.0	706.0	7.4
48	1101 0000	710.000	726.3	0.5	0.0	12.9	721.9	4.4
49	1100 1111	725.625	734.2	0.5	0.6	7.9	737.7	-3.5
50	1100 1110	741.250	748.0	-0.0	0.6	13.8	753.6	-5.6
51	1100 1101	756.875	773.4	-0.9	-0.8	25.4	769.5	3.9

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 561
1981/11/30 14:58:56 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=12)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
52	1100 1100	772.500	787.5	-0.6	-0.5	14.1	785.4	2.1
53	1100 1011	788.125	800.9	0.5	-0.0	13.4	801.2	-0.3
54	1100 1010	803.750	819.7	0.5	0.5	18.7	817.1	2.6
55	1100 1001	819.375	840.1	-0.8	0.1	20.4	833.0	7.1
56	1100 1000	835.000	855.5	-0.9	-0.9	15.4	848.9	6.6
57	1100 0111	850.625	861.5	0.0	-0.6	6.0	864.7	-3.3
58	1100 0110	866.250	877.2	0.5	0.5	15.7	880.6	-3.4
59	1100 0101	881.875	899.5	0.6	0.7	22.3	896.5	3.0
60	1100 0100	897.500	919.7	-0.6	0.1	20.2	912.3	7.3
61	1100 0011	913.125	928.0	-0.5	-0.5	8.3	928.2	-0.3
62	1100 0010	928.750	948.6	0.5	-0.1	20.6	944.1	4.5
63	1100 0001	944.375	964.9	0.7	0.7	16.3	960.0	5.0
64	1100 0000	960.000	977.1	-0.1	0.6	12.1	975.8	1.3
65	1011 1111	975.625	989.9	-0.6	-0.6	12.8	991.7	-1.8
66	1011 1110	991.250	1003.7	-0.6	-0.6	13.8	1007.6	-3.9
67	1011 1101	1006.88	1028.2	0.7	0.0	24.5	1023.5	4.7
68	1011 1100	1022.50	1039.3	0.8	0.8	11.1	1039.3	-0.1
69	1011 1011	1038.13	1056.5	-0.4	-0.0	17.2	1055.2	1.3
70	1011 1010	1053.75	1075.0	-0.5	-0.5	18.5	1071.1	3.9
71	1011 1001	1069.38	1096.1	-0.1	-0.6	21.1	1087.0	9.1
72	1011 1000	1085.00	1098.5	0.5	0.5	2.4	1102.8	-4.3
73	1011 0111	1100.63	1115.9	0.5	0.5	17.4	1118.7	-2.8
74	1011 0110	1116.25	1132.6	-0.5	-0.0	16.6	1134.6	-2.0
75	1011 0101	1131.88	1155.8	-0.7	-0.8	23.2	1150.5	5.3
76	1011 0100	1147.50	1170.0	0.0	-0.7	14.2	1166.3	3.7
77	1011 0011	1163.13	1182.4	0.5	0.5	12.4	1182.2	0.2
78	1011 0010	1178.75	1204.4	0.0	0.5	22.0	1198.1	6.3

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 562
1981/11/30 14:58:56 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-B A/D THRESHOLD TEST (BAND= 3, SENSOR=12)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
79	1011 0001	1194.38	1221.8	-0.7	-0.7	17.4	1214.0	7.8
80	1011 0000	1210.00	1233.7	-0.6	-0.6	11.9	1229.8	3.9
81	1010 1111	1225.63	1245.1	0.6	-0.0	11.3	1245.7	-0.6
82	1010 1110	1241.25	1255.5	0.5	0.4	10.4	1261.6	-6.1
83	1010 1101	1256.88	1280.3	0.0	0.7	24.8	1277.5	2.9
84	1010 1100	1272.50	1294.9	-0.6	-0.6	14.6	1293.3	1.6
85	1010 1011	1288.13	1308.5	-0.0	-0.5	13.6	1309.2	-0.7
86	1010 1010	1303.75	1327.1	0.5	0.5	18.6	1325.1	2.1
87	1010 1001	1319.38	1347.5	0.6	0.6	20.3	1340.9	6.5
88	1010 1000	1335.00	1359.6	-0.6	-0.0	12.1	1356.8	2.7
89	1010 0111	1350.63	1368.3	-0.5	-0.6	8.7	1372.7	-4.4
90	1010 0110	1366.25	1384.7	0.0	-0.5	16.4	1388.6	-3.9
91	1010 0101	1381.88	1406.9	0.7	0.6	22.2	1404.4	2.5
92	1010 0100	1397.50	1425.0	-0.1	0.6	18.1	1420.3	4.7
93	1010 0011	1413.13	1434.7	-0.5	-0.5	9.7	1436.2	-1.5
94	1010 0010	1428.75	1456.9	-1.1	-1.1	22.2	1452.1	4.8
95	1010 0001	1444.38	1472.6	0.7	0.0	15.7	1467.9	4.6
96	1010 0000	1460.00	1484.8	0.2	0.2	12.2	1483.8	1.0
97	1001 1111	1475.63	1498.9	-0.6	0.0	14.1	1499.7	-0.8
98	1001 1110	1491.25	1508.2	-0.3	-0.4	9.3	1515.6	-7.4
99	1001 1101	1506.88	1534.2	-0.0	-0.8	26.0	1531.4	2.8
100	1001 1100	1522.50	1543.5	0.6	0.6	9.3	1547.3	-3.8
101	1001 1011	1538.13	1561.4	0.4	0.4	17.8	1563.2	-1.8
102	1001 1010	1553.75	1579.8	-0.5	-0.1	18.4	1579.1	0.7
103	1001 1001	1569.38	1601.1	-0.5	-0.6	21.3	1594.9	6.2
104	1001 1000	1585.00	1606.5	0.0	-0.6	5.4	1610.8	-4.3

ORIGINAL PAGE IS
OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 563

1981/11/30 14:58:56 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3. SENSOR=12)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
105	1001 0111	1600.63	1620.9	0.7	0.7	14.3	1626.7	-5.8
106	1001 0110	1616.25	1636.5	-0.0	0.5	15.6	1642.6	-6.1
107	1001 0101	1631.88	1660.7	-0.7	-0.7	24.2	1658.4	2.3
108	1001 0100	1647.50	1674.7	-0.6	-0.6	14.0	1674.3	0.4
109	1001 0011	1663.13	1687.4	0.5	-0.0	12.7	1690.2	-2.7
110	1001 0010	1678.75	1708.7	0.5	0.4	21.3	1706.0	2.7
111	1001 0001	1694.38	1725.6	0.0	0.2	16.8	1721.9	3.6
112	1001 0000	1710.00	1742.7	-0.7	-0.6	17.2	1737.8	4.9
113	1000 1111	1725.63	1750.7	0.0	-0.7	7.9	1753.7	-3.0
114	1000 1110	1741.25	1759.8	0.5	0.5	9.1	1769.5	-9.8
115	1000 1101	1756.88	1785.2	0.8	0.8	25.4	1785.4	-0.2
116	1000 1100	1772.50	1799.6	-0.5	0.0	14.4	1801.3	-1.7
117	1000 1011	1788.13	1813.5	-0.6	-0.6	13.9	1817.2	-3.7
118	1000 1010	1803.75	1831.9	0.0	-0.5	18.4	1833.0	-1.2
119	1000 1001	1819.38	1852.2	0.8	0.7	20.3	1848.9	3.3
120	1000 1000	1835.00	1866.8	-0.0	0.3	14.6	1864.8	2.0
121	1000 0111	1850.63	1873.3	-0.7	-0.7	6.5	1880.7	-7.3
122	1000 0110	1866.25	1888.8	-0.6	-0.6	15.5	1896.5	-7.7
123	1000 0101	1881.88	1911.4	0.9	0.0	27.5	1912.4	-1.0
124	1000 0100	1897.50	1929.6	0.6	0.7	18.3	1928.3	1.4
125	1000 0011	1913.13	1939.0	-0.1	0.4	9.3	1944.2	-5.2
126	1000 0010	1928.75	1961.9	-0.6	-0.6	22.9	1960.0	1.9
127	1000 0001	1944.38	1977.5	-0.1	-0.6	15.6	1975.9	1.6
128	1000 0000	1960.00	1994.9	0.5	0.4	17.3	1991.8	3.1
129	0111 1111	1975.63	2002.2	0.4	0.5	7.3	2007.7	-5.5
130	0111 1110	1991.25	2017.8	-0.5	0.0	15.6	2023.5	-5.7

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST 527

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=12)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
131	0111 1101	2006.88	2042.7	-0.6	-0.6	24.9	2039.4	3.3
132	0111 1100	2022.50	2056.5	0.0	-0.6	13.8	2055.3	1.2
133	0111 1011	2038.13	2069.0	0.5	0.6	12.5	2071.2	-2.1
134	0111 1010	2053.75	2089.8	0.0	0.5	20.8	2087.0	2.8
135	0111 1001	2069.38	2110.1	-0.9	-0.9	20.3	2102.9	7.2
136	0111 1000	2085.00	2119.4	-0.4	-0.5	9.2	2118.8	0.6
137	0111 0111	2100.63	2129.6	0.0	0.0	10.2	2134.6	-5.1
138	0111 0110	2116.25	2146.1	0.5	0.5	16.6	2150.5	-4.4
139	0111 0101	2131.88	2169.0	-0.0	0.6	22.9	2166.4	2.6
140	0111 0100	2147.50	2186.1	-0.4	-0.5	17.0	2182.3	3.8
141	0111 0011	2163.13	2196.0	0.0	-0.4	9.9	2198.1	-2.2
142	0111 0010	2178.75	2219.9	0.4	0.3	24.0	2214.0	5.9
143	0111 0001	2194.38	2235.4	0.5	0.5	15.4	2229.9	5.5
144	0111 0000	2210.00	2245.7	-0.6	-0.1	10.3	2245.8	-0.0
145	0110 1111	2225.63	2254.6	-0.4	-0.4	8.9	2261.6	-7.0
146	0110 1110	2241.25	2270.2	-0.0	-0.6	15.5	2277.5	-7.3
147	0110 1101	2256.88	2294.3	0.4	0.4	24.1	2293.4	0.9
148	0110 1100	2272.50	2312.3	0.0	0.6	18.0	2309.3	3.0
149	0110 1011	2288.13	2321.5	-0.5	-0.5	9.2	2325.1	-3.6
150	0110 1010	2303.75	2343.0	-0.6	-0.6	21.4	2341.0	2.0
151	0110 1001	2319.38	2361.4	0.8	0.0	18.4	2356.9	4.5
152	0110 1000	2335.00	2374.6	0.5	0.5	13.2	2372.8	1.8
153	0110 0111	2350.63	2380.6	-0.1	0.5	6.1	2388.6	-8.0
154	0110 0110	2366.25	2398.7	-0.4	-0.5	18.1	2404.5	-5.8
155	0110 0101	2381.88	2421.7	-0.0	-0.8	23.0	2420.4	1.3
156	0110 0100	2397.50	2441.6	0.4	0.4	19.9	2436.3	5.4
157	0110 0011	2413.13	2447.4	0.4	0.5	5.7	2452.1	-4.8

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 565

1981/11/30 14:58:56 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=12)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
158	0110 0010	2428.75	2470.9	-0.7	0.0	23.5	2468.0	2.9
159	0110 0001	2444.38	2487.7	-0.6	-0.6	16.8	2483.9	3.8
160	0110 0000	2460.00	2496.1	0.0	-0.4	8.4	2499.8	-3.6
161	0101 1111	2475.63	2507.5	0.6	0.5	11.4	2515.6	-8.1
162	0101 1110	2491.25	2522.2	-0.1	0.4	14.7	2531.5	-9.3
163	0101 1101	2506.88	2548.4	-0.7	-0.7	26.2	2547.4	1.0
164	0101 1100	2522.50	2562.4	-0.6	-0.6	13.9	2563.2	-0.9
165	0101 1011	2538.13	2574.4	0.5	0.0	12.1	2579.1	-4.7
166	0101 1010	2553.75	2595.0	0.4	0.3	20.6	2595.0	0.1
167	0101 1001	2569.38	2615.0	-0.0	0.6	20.0	2610.9	4.2
168	0101 1000	2585.00	2621.1	-0.5	-0.6	6.1	2626.7	-5.6
169	0101 0111	2600.63	2634.6	0.0	-0.5	13.5	2642.6	-8.0
170	0101 0110	2616.25	2650.9	0.5	0.6	16.3	2658.5	-7.6
171	0101 0101	2631.88	2674.5	0.6	0.6	23.6	2674.4	0.1
172	0101 0100	2647.50	2691.8	-0.7	-0.1	17.3	2690.2	1.6
173	0101 0011	2663.13	2701.3	-0.4	-0.4	9.4	2706.1	-4.8
174	0101 0010	2678.75	2725.1	0.1	-0.5	23.8	2722.0	3.1
175	0101 0001	2694.38	2740.5	0.6	0.5	15.3	2737.9	2.6
176	0101 0000	2710.00	2754.5	0.0	0.7	14.0	2753.7	0.8
177	0100 1111	2725.63	2760.3	-0.7	-0.6	5.7	2769.6	-9.3
178	0100 1110	2741.25	2775.1	-0.3	-0.3	14.8	2785.5	-10.4
179	0100 1101	2756.88	2799.9	0.7	-0.0	24.8	2801.4	-1.5
180	0100 1100	2772.50	2818.2	0.6	0.7	18.4	2817.2	1.0
181	0100 1011	2788.13	2826.5	0.0	0.5	8.3	2833.1	-6.6
182	0100 1010	2803.75	2848.1	-0.9	-0.9	21.5	2849.0	-0.9
183	0100 1001	2819.38	2867.6	0.0	-0.5	19.6	2864.9	2.8

ORIGINAL PAGE IS
OF POOR QUALITY

HAC TEST S27

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 566
1981/11/30 14:58:56 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=12) 80/30/81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
184	0100 1000	2835.00	2882.8	0.5	0.6	15.1	2880.7	2.1
185	0100 0111	2850.63	2886.2	0.5	0.6	3.4	2896.6	-10.4
186	0100 0110	2866.25	2903.9	-0.7	-0.0	17.7	2912.5	-8.6
187	0100 0101	2881.88	2927.5	-0.7	-0.7	23.6	2928.3	-0.9
188	0100 0100	2897.50	2947.9	0.0	-0.7	20.4	2944.2	3.7
189	0100 0011	2913.13	2953.1	0.4	0.5	5.2	2960.1	-7.0
190	0100 0010	2928.75	2975.4	-0.1	0.6	22.3	2976.0	-0.6
191	0100 0001	2944.38	2993.1	-0.6	-0.6	17.7	2991.8	1.3
192	0100 0000	2960.00	3009.4	-0.9	-0.9	16.3	3007.7	1.7
193	0011 1111	2975.63	3014.8	0.6	-0.0	5.4	3023.6	-8.8
194	0011 1110	2991.25	3029.9	0.6	0.5	15.0	3039.5	-9.6
195	0011 1101	3006.88	3055.7	-0.1	0.8	25.8	3055.3	0.3
196	0011 1100	3022.50	3069.0	-0.6	-0.6	13.3	3071.2	-2.2
197	0011 1011	3038.13	3082.7	-0.1	-0.5	13.7	3087.1	-4.4
198	0011 1010	3053.75	3103.5	0.6	0.7	20.8	3103.0	0.6
199	0011 1001	3069.38	3123.5	0.6	0.6	19.9	3118.8	4.7
200	0011 1000	3085.00	3125.5	-0.5	-0.0	2.1	3134.7	-9.2
201	0011 0111	3100.63	3142.7	-0.6	-0.6	17.2	3150.6	-7.9
202	0011 0110	3116.25	3159.9	-0.0	-0.6	17.2	3166.5	-6.5
203	0011 0101	3131.88	3183.5	0.6	0.6	23.6	3182.3	1.2
204	0011 0100	3147.50	3198.8	-0.1	0.5	15.3	3198.2	0.5
205	0011 0011	3163.13	3210.0	-0.6	-0.5	11.2	3214.1	-4.1
206	0011 0010	3178.75	3234.0	-0.6	-0.5	24.0	3230.0	4.0
207	0011 0001	3194.38	3249.8	0.6	-0.0	15.8	3245.8	3.9
208	0011 0000	3210.00	3261.3	0.4	0.6	11.5	3261.7	-0.4
209	0010 1111	3225.63	3268.8	-0.0	0.6	7.5	3277.6	-8.8

ORIGINAL PAGE IS OF POOR QUALITY

1981/11/30 14:58:56 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=12)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
210	0010 1110	3241.25	3284.4	-0.4	-0.5	15.6	3293.5	-9.1
211	0010 1101	3256.88	3310.4	-0.1	-0.7	26.0	3309.3	1.1
212	0010 1100	3272.50	3326.8	0.4	0.3	16.4	3325.2	1.6
213	0010 1011	3288.13	3336.2	0.4	0.5	9.4	3341.1	-4.8
214	0010 1010	3303.75	3358.5	-0.6	0.0	22.3	3356.9	1.6
215	0010 1001	3319.38	3378.5	-0.8	-0.8	19.9	3372.8	5.6
216	0010 1000	3335.00	3390.7	-0.1	-0.6	12.2	3388.7	2.0
217	0010 0111	3350.63	3396.4	0.5	0.5	5.7	3404.6	-8.2
218	0010 0110	3366.25	3413.9	-0.1	0.5	17.5	3420.4	-6.6
219	0010 0101	3381.88	3438.7	-0.8	-0.6	24.8	3436.3	2.3
220	0010 0100	3397.50	3457.9	-0.7	-0.6	19.2	3452.2	5.7
221	0010 0011	3413.13	3464.0	0.3	-0.0	6.1	3468.1	-4.1
222	0010 0010	3428.75	3489.4	0.3	0.6	25.4	3483.9	5.4
223	0010 0001	3444.38	3504.3	-0.1	0.4	14.9	3499.8	4.5
224	0010 0000	3460.00	3517.4	-0.8	-0.9	13.2	3515.7	1.8
225	0001 1111	3475.63	3525.7	-0.0	-0.7	8.2	3531.6	-5.9
226	0001 1110	3491.25	3539.4	0.5	0.6	13.7	3547.4	-8.0
227	0001 1101	3506.88	3566.0	0.6	0.8	26.6	3563.3	2.7
228	0001 1100	3522.50	3579.7	-0.5	0.0	13.7	3579.2	0.6
229	0001 1011	3538.13	3593.3	-0.6	-0.5	13.6	3595.1	-1.7
230	0001 1010	3553.75	3613.5	0.9	-0.0	20.2	3610.9	2.6
231	0001 1001	3569.38	3634.7	0.6	0.7	21.2	3626.8	7.9
232	0001 1000	3585.00	3638.4	0.0	0.5	3.7	3642.7	-4.2
233	0001 0111	3600.63	3654.0	-0.9	-0.7	15.6	3658.6	-4.5
234	0001 0110	3616.25	3670.6	-0.7	-0.7	16.6	3674.4	-3.8
235	0001 0101	3631.88	3695.0	0.7	0.1	24.4	3690.3	4.7
236	0001 0100	3647.50	3710.3	-0.1	0.2	15.3	3706.2	4.1

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 568

1981/11/30 14:58:56 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-B A/D THRESHOLD TEST (BAND= 3, SENSOR=12)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
237	0001 0011	3663.13	3721.3	-0.1	0.4	11.0	3722.1	-0.8
238	0001 0010	3678.75	3745.4	-0.8	-0.7	24.2	3737.9	7.5
239	0001 0001	3694.38	3762.0	-0.1	-0.5	16.6	3753.8	8.2
240	0001 0000	3710.00	3778.7	0.3	0.5	16.7	3769.7	9.0
241	0000 1111	3725.63	3781.1	0.8	0.8	2.4	3785.5	-4.5
242	0000 1110	3741.25	3796.2	-0.8	-0.1	15.1	3801.4	-5.2
243	0000 1101	3756.88	3822.9	-0.9	-0.7	26.7	3817.3	5.6
244	0000 1100	3772.50	3839.2	1.1	0.0	16.3	3833.2	6.0
245	0000 1011	3788.13	3849.0	0.5	0.5	9.8	3849.0	-0.0
246	0000 1010	3803.75	3870.4	-0.2	0.5	21.3	3864.9	5.4
247	0000 1001	3819.38	3891.9	-0.9	-0.8	21.5	3880.8	11.1
248	0000 1000	3835.00	3906.6	-0.6	-0.6	14.7	3896.7	10.0
249	0000 0111	3850.63	3909.8	0.7	0.0	3.2	3912.5	-2.8
250	0000 0110	3866.25	3926.7	0.4	0.5	16.9	3928.4	-1.7
251	0000 0101	3881.88	3951.6	-0.1	0.6	24.9	3944.3	7.3
252	0000 0100	3897.50	3971.5	-0.8	-0.7	19.9	3960.2	11.3
253	0000 0011	3913.13	3978.4	-0.1	-0.6	6.9	3976.0	2.4
254	0000 0010	3928.75	4002.8	0.5	0.7	24.4	3991.9	10.9
255	0000 0001	3944.38	4018.2	0.5	0.7	15.4	4007.8	10.4

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=13)

S U M M A R Y

CHECK 1) RMS ERROR, 2) THRESHOLD INCREMENT(+/- 0.0 <= THRH INC <= 31.2)
THE REMAINING DATA ARE FOR INFORMATION ONLY

BEST FIT STRAIGHT LINE IS: Y =15.844X -37.8MV

DEVIATION OF SLOPE FROM IDEAL IS: 1.403%
OFFSET IS:-37.8MV
COEFFICIENT OF DETERMINATION IS: R**2= .99998440
ANALOG INPUT DURING DC RESTORE IS:64.4MV

RMS ERROR = 4.743MV REQMT: RMS ERROR <=7.812MV

THRESHOLD INCREMENT MEASUREMENT

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
27.4MV	227	15.913MV	1.4MV	200	5.611MV

LOWER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
0.8MV	191	-0.144MV	-6.0MV	241	.770MV

UPPER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
5.7MV	169	0.116MV	-1.3MV	152	.778MV

TEST PASSED

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 570

1981/11/30 15:05:32 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3 5.3.5-B A/D THRESHOLD TEST (BAND= 3, SENSOR=13) NOV 30 81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
THE FOLLOWING DATA ARE FOR INFORMATION ONLY								
1	1111 1111	-24.375	-27.0	-1.2	0.1		-22.0	-5.0
2	1111 1110	-8.750	-14.2	-0.1	-0.0	12.7	-6.1	-8.1
3	1111 1101	6.875	11.1	-0.1	-0.5	25.4	9.7	1.5
4	1111 1100	22.500	23.4	0.5	0.6	12.2	25.5	-2.2
5	1111 1011	38.125	39.4	-0.1	0.3	16.0	41.4	-2.0
6	1111 1010	53.750	57.5	-0.1	0.0	18.1	57.2	0.2
7	1111 1001	69.375	78.7	-0.5	-0.5	21.2	73.1	5.6
8	1111 1000	85.000	83.1	0.3	-0.0	4.4	88.9	-5.9
9	1111 0111	100.625	100.2	0.3	0.3	17.1	104.8	-4.6
10	1111 0110	116.250	115.9	-0.1	0.0	15.7	120.6	-4.7
11	1111 0101	131.875	139.1	-0.5	-0.5	23.1	136.5	2.6
12	1111 0100	147.500	155.1	-0.6	-0.5	16.0	152.3	2.8
13	1111 0011	163.125	166.3	0.1	0.1	11.2	168.1	-1.9
14	1111 0010	178.750	187.8	-0.1	0.0	21.5	184.0	3.8
15	1111 0001	194.375	205.6	-0.5	0.0	17.7	199.8	5.7
16	1111 0000	210.000	214.3	-0.1	0.0	8.7	215.7	-1.4
17	1110 1111	225.625	227.6	-0.1	-0.6	13.3	231.5	-3.9
18	1110 1110	241.250	240.5	-0.1	-0.1	12.9	247.4	-6.9
19	1110 1101	256.875	265.0	0.4	0.5	24.5	263.2	1.8
20	1110 1100	272.500	280.9	-0.6	-0.0	15.8	279.0	1.8
21	1110 1011	288.125	294.3	-0.4	-0.4	13.4	294.9	-0.6
22	1110 1010	303.750	312.4	-0.2	-0.0	18.2	310.7	1.7
23	1110 1001	319.375	332.4	0.1	0.4	20.0	326.6	5.8
24	1110 1000	335.000	344.7	0.0	0.2	12.3	342.4	2.3
25	1110 0111	350.625	354.8	-0.4	-0.3	10.1	358.3	-3.5

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 571

1981/11/30 15:05:32 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=13)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
26	1110 0110	366.250	370.4	0.0	0.0	15.7	374.1	-3.7
27	1110 0101	381.875	392.9	0.3	0.0	22.4	390.0	2.9
28	1110 0100	397.500	412.5	0.5	0.6	19.7	405.8	6.7
29	1110 0011	413.125	420.5	0.3	0.0	8.0	421.6	-1.1
30	1110 0010	428.750	442.1	-0.1	0.0	21.6	437.5	4.6
31	1110 0001	444.375	459.3	0.0	-0.3	17.2	453.3	6.0
32	1110 0000	460.000	465.7	0.4	0.5	6.4	469.2	-3.5
33	1101 1111	475.625	482.3	0.5	0.6	16.6	485.0	-2.7
34	1101 1110	491.250	494.9	-0.0	0.0	12.6	500.9	-5.9
35	1101 1101	506.875	520.7	-0.5	-0.4	25.7	516.7	4.0
36	1101 1100	522.500	532.9	0.4	0.1	12.2	532.6	0.3
37	1101 1011	538.125	549.1	0.5	0.4	16.2	548.4	0.7
38	1101 1010	553.750	566.5	-0.0	0.0	17.4	564.2	2.3
39	1101 1001	569.375	588.3	-0.6	-0.5	21.8	580.1	8.2
40	1101 1000	585.000	595.0	-0.2	-0.3	6.7	595.9	-0.9
41	1101 0111	600.625	609.4	0.3	-0.0	14.4	611.8	-2.3
42	1101 0110	616.250	624.6	-0.1	0.0	15.1	627.6	-3.0
43	1101 0101	631.875	648.2	-0.5	0.0	23.6	643.5	4.8
44	1101 0100	647.500	664.0	-0.6	-0.4	15.7	659.3	4.7
45	1101 0011	663.125	676.0	-0.2	-0.0	12.0	675.2	0.8
46	1101 0010	678.750	696.2	-0.1	-0.0	20.1	691.0	5.2
47	1101 0001	694.375	713.6	0.2	0.5	17.5	706.8	6.8
48	1101 0000	710.000	727.5	-0.2	-0.1	13.9	722.7	4.8
49	1100 1111	725.625	735.9	-0.5	-0.4	8.4	738.5	-2.6
50	1100 1110	741.250	748.4	-0.2	-0.1	12.5	754.4	-5.9
51	1100 1101	756.875	773.2	0.3	0.5	24.7	770.2	3.0

ORIGINAL PAGE IS OF POOR QUALITY

HS-206 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 572

1981/11/30 15:05:32 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=13)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
52	1100 1100	772.500	787.5	-0.0	1.3	14.3	786.1	1.4
53	1100 1011	788.125	802.4	-0.5	-0.4	15.0	801.9	0.5
54	1100 1010	803.750	819.9	0.1	0.1	17.4	817.8	2.1
55	1100 1001	819.375	840.5	0.3	-0.0	20.6	833.6	6.9
56	1100 1000	835.000	855.5	0.1	0.2	14.9	849.4	6.0
57	1100 0111	850.625	862.4	-0.5	-0.1	6.9	865.3	-2.9
58	1100 0110	866.250	877.3	-0.1	0.0	14.8	881.1	-3.9
59	1100 0101	881.875	900.4	-0.0	-0.4	23.1	897.0	3.4
60	1100 0100	897.500	919.9	0.6	0.6	19.5	912.8	7.1
61	1100 0011	913.125	928.2	-0.1	0.5	8.3	928.7	-0.5
62	1100 0010	928.750	948.6	-0.1	-0.0	20.4	944.5	4.1
63	1100 0001	944.375	965.8	-0.4	-0.3	17.2	960.3	5.5
64	1100 0000	960.000	977.2	0.5	0.0	11.3	976.2	1.0
65	1011 1111	975.625	993.3	0.6	0.6	16.1	992.0	1.3
66	1011 1110	991.250	1002.8	0.0	-0.1	9.5	1007.9	-5.0
67	1011 1101	1006.88	1028.6	-0.4	-0.4	25.8	1023.7	4.9
68	1011 1100	1022.50	1040.6	-0.4	-0.4	11.9	1039.6	1.0
69	1011 1011	1038.13	1056.5	0.7	-0.1	16.0	1055.4	1.1
70	1011 1010	1053.75	1074.3	0.1	0.1	17.8	1071.3	3.1
71	1011 1001	1069.38	1095.9	-0.4	0.0	21.6	1087.1	8.8
72	1011 1000	1085.00	1098.6	-0.3	-0.2	2.6	1102.9	-4.4
73	1011 0111	1100.63	1117.0	-0.1	-0.6	18.4	1118.8	-1.8
74	1011 0110	1116.25	1131.6	0.0	-0.1	14.6	1134.6	-3.1
75	1011 0101	1131.88	1154.9	0.4	0.4	23.3	1150.5	4.4
76	1011 0100	1147.50	1170.0	-0.5	0.0	15.1	1166.3	3.7
77	1011 0011	1163.13	1183.2	-0.5	-0.5	13.3	1182.2	1.1
78	1011 0010	1178.75	1203.2	0.1	0.0	20.0	1198.0	5.2

ORIGINAL PAGE IS OF POOR QUALITY

1981/11/30 15:05:32 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=13)

HAC 11.T 527 NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
79	1011 0001	1194.38	1220.8	0.4	0.5	17.6	1213.9	7.0
80	1011 0000	1210.00	1232.6	0.0	0.0	11.8	1229.7	2.9
81	1010 1111	1225.63	1245.5	-0.6	-0.5	12.9	1245.5	-0.1
82	1010 1110	1241.25	1254.6	0.0	0.0	9.1	1261.4	-6.7
83	1010 1101	1256.88	1279.7	0.4	-0.0	25.0	1277.2	2.4
84	1010 1100	1272.50	1295.2	0.7	0.7	15.5	1293.1	2.1
85	1010 1011	1288.13	1308.6	-0.4	0.0	13.4	1308.9	-0.3
86	1010 1010	1303.75	1326.5	0.0	0.0	17.9	1324.8	1.7
87	1010 1001	1319.38	1347.4	-0.1	-0.6	20.9	1340.6	6.8
88	1010 1000	1335.00	1358.4	0.3	0.3	11.0	1356.5	2.0
89	1010 0111	1350.63	1367.7	0.5	0.5	9.3	1372.3	-4.6
90	1010 0110	1366.25	1383.1	0.1	0.0	15.3	1388.1	-5.1
91	1010 0101	1381.88	1406.6	-0.5	-0.5	23.5	1404.0	2.6
92	1010 0100	1397.50	1425.1	0.1	-0.4	18.5	1419.8	5.3
93	1010 0011	1413.13	1434.1	0.5	0.5	9.0	1435.7	-1.6
94	1010 0010	1428.75	1455.0	-0.0	-0.1	20.9	1451.5	3.5
95	1010 0001	1444.38	1472.5	-0.6	-0.4	17.4	1467.4	5.1
96	1010 0000	1460.00	1484.8	-0.1	-1.0	12.4	1483.2	1.6
97	1001 1111	1475.63	1497.6	0.6	0.1	12.7	1499.1	-1.5
98	1001 1110	1491.25	1506.5	-0.1	0.1	8.9	1514.9	-8.4
99	1001 1101	1506.88	1532.2	-0.1	0.4	25.7	1530.7	1.5
100	1001 1100	1522.50	1544.8	-0.8	-0.6	12.5	1546.6	-1.8
101	1001 1011	1538.13	1561.3	-0.0	-0.6	16.5	1562.4	-1.1
102	1001 1010	1553.75	1577.9	0.0	0.0	16.6	1578.3	-0.3
103	1001 1001	1569.38	1599.5	0.5	0.4	21.5	1594.1	5.3
104	1001 1000	1585.00	1604.9	-0.0	0.0	5.4	1610.0	-5.1

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 574
1981/11/30 15:05:32 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=13)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
105	1001 0111	1600.63	1621.0	-0.8	-0.7	16.1	1625.8	-4.8
106	1001 0110	1616.25	1635.0	-0.0	0.1	13.9	1641.7	-6.7
107	1001 0101	1631.88	1658.7	0.4	0.4	23.7	1657.5	1.2
108	1001 0100	1647.50	1673.3	0.0	0.5	14.6	1673.3	-0.0
109	1001 0011	1663.13	1687.2	-0.4	-0.4	13.9	1689.2	-2.0
110	1001 0010	1678.75	1707.1	0.1	0.2	19.9	1705.0	2.1
111	1001 0001	1694.38	1724.6	0.4	0.2	17.5	1720.9	3.8
112	1001 0000	1710.00	1741.0	0.2	0.2	16.4	1736.7	4.3
113	1000 1111	1725.63	1748.8	0.0	0.6	7.8	1752.6	-3.7
114	1000 1110	1741.25	1758.0	0.0	0.0	9.2	1768.4	-10.4
115	1000 1101	1756.88	1783.9	0.0	-0.5	25.9	1784.2	-0.4
116	1000 1100	1772.50	1798.0	0.4	0.5	14.1	1800.1	-2.1
117	1000 1011	1788.13	1812.0	0.5	0.6	14.0	1815.9	-4.0
118	1000 1010	1803.75	1829.9	-0.1	0.0	17.9	1831.8	-1.9
119	1000 1001	1819.38	1851.0	-0.4	-0.4	21.1	1847.6	3.4
120	1000 1000	1835.00	1865.4	0.1	-0.2	14.3	1863.5	1.9
121	1000 0111	1850.63	1871.6	0.3	0.5	6.3	1879.3	-7.7
122	1000 0110	1866.25	1886.4	0.0	0.0	14.7	1895.2	-8.8
123	1000 0101	1881.88	1910.1	-0.5	-0.5	23.8	1911.0	-0.9
124	1000 0100	1897.50	1928.9	-0.7	-0.6	18.8	1926.8	2.1
125	1000 0011	1913.13	1937.7	0.6	0.1	8.8	1942.7	-5.0
126	1000 0010	1928.75	1958.4	-0.1	-0.0	20.7	1958.5	-0.1
127	1000 0001	1944.38	1975.7	0.1	0.5	17.3	1974.4	1.3
128	1000 0000	1960.00	1993.6	-0.1	-0.1	17.9	1990.2	3.4
129	0111 1111	1975.63	2001.4	0.0	-0.5	7.8	2006.1	-4.7
130	0111 1110	1991.25	2015.0	0.0	0.0	13.7	2021.9	-6.9

ORIGINAL PAGE IS
OF POOR QUALITY

HAC TEST 527

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 575

1981/11/30 15:05:32 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=13)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
131	0111 1101	2006.88	2040.1	0.4	0.4	25.1	2037.8	2.4
132	0111 1100	2022.50	2054.8	-0.6	0.9	14.6	2053.6	1.2
133	0111 1011	2038.13	2068.1	-0.6	-0.5	13.4	2069.4	-1.3
134	0111 1010	2053.75	2087.8	0.0	-0.1	19.7	2085.3	2.5
135	0111 1001	2069.38	2107.3	0.5	0.5	19.4	2101.1	6.1
136	0111 1000	2085.00	2115.4	0.3	0.7	8.2	2117.0	-1.5
137	0111 0111	2100.63	2127.6	-0.5	-0.5	12.2	2132.8	-5.2
138	0111 0110	2116.25	2143.6	-0.0	0.0	16.0	2148.7	-5.0
139	0111 0101	2131.88	2166.7	0.5	0.0	23.1	2164.5	2.2
140	0111 0100	2147.50	2183.6	0.7	0.6	16.9	2180.4	3.3
141	0111 0011	2163.13	2193.9	-0.2	0.5	10.3	2196.2	-2.3
142	0111 0010	2178.75	2215.5	-0.1	-0.0	21.6	2212.0	3.5
143	0111 0001	2194.38	2233.8	-0.2	-0.5	18.3	2227.9	5.9
144	0111 0000	2210.00	2243.3	0.2	0.2	9.4	2243.7	-0.5
145	0110 1111	2225.63	2257.4	0.4	0.5	14.1	2259.6	-2.2
146	0110 1110	2241.25	2266.9	0.1	-0.0	9.5	2275.4	-8.5
147	0110 1101	2256.88	2292.2	-0.4	-0.4	25.3	2291.3	1.0
148	0110 1100	2272.50	2310.1	-0.1	-0.4	17.9	2307.1	3.0
149	0110 1011	2288.13	2319.0	0.6	0.6	8.9	2323.0	-3.9
150	0110 1010	2303.75	2340.1	0.0	0.1	21.1	2338.8	1.3
151	0110 1001	2319.38	2359.2	-0.4	-0.4	19.1	2354.6	4.6
152	0110 1000	2335.00	2372.5	-0.3	-1.3	13.2	2370.5	2.0
153	0110 0111	2350.63	2378.6	0.5	-0.0	6.1	2386.3	-7.7
154	0110 0110	2366.25	2395.5	-0.2	0.0	16.8	2402.2	-6.7
155	0110 0101	2381.88	2418.2	-0.1	0.5	22.7	2418.0	0.2
156	0110 0100	2397.50	2439.8	-0.7	-0.6	21.5	2433.9	5.9
157	0110 0011	2413.13	2445.7	-0.1	-0.6	5.9	2449.7	-4.0

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 576
1981/11/30 15:05:32 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=13)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
158	0110 0010	2428.75	2467.3	-0.0	0.0	21.5	2465.5	1.7
159	0110 0001	2444.38	2484.2	-0.0	0.8	16.9	2481.4	2.8
160	0110 0000	2460.00	2493.3	-0.4	0.1	9.1	2497.2	-3.9
161	0101 1111	2475.63	2505.7	-0.6	4.8	12.4	2513.1	-7.4
162	0101 1110	2491.25	2519.1	-0.0	0.0	13.4	2528.9	-9.8
163	0101 1101	2506.88	2544.6	0.4	0.5	25.5	2544.8	-0.2
164	0101 1100	2522.50	2558.9	-0.1	0.4	14.3	2560.6	-1.7
165	0101 1011	2538.13	2572.5	-0.6	-0.6	13.6	2576.5	-4.0
166	0101 1010	2553.75	2592.0	-0.1	-0.1	19.6	2592.3	-0.3
167	0101 1001	2569.38	2611.8	0.5	0.0	19.8	2608.1	3.7
168	0101 1000	2585.00	2617.4	0.0	0.4	5.6	2624.0	-6.6
169	0101 0111	2600.63	2631.6	-0.1	5.7	14.2	2639.8	-8.2
170	0101 0110	2616.25	2647.7	-0.2	-0.1	16.1	2655.7	-8.0
171	0101 0101	2631.88	2671.8	-0.1	-0.4	24.1	2671.5	0.2
172	0101 0100	2647.50	2688.3	0.7	0.7	16.5	2687.4	0.9
173	0101 0011	2663.13	2698.1	0.5	0.5	9.8	2703.2	-5.1
174	0101 0010	2678.75	2721.8	-0.3	-0.1	23.7	2719.1	2.8
175	0101 0001	2694.38	2738.3	-0.6	-0.3	16.5	2734.9	3.4
176	0101 0000	2710.00	2752.0	-0.1	-0.3	13.6	2750.7	1.2
177	0100 1111	2725.63	2762.3	-5.0	0.4	10.3	2766.6	-4.3
178	0100 1110	2741.25	2770.8	-0.0	0.0	8.4	2782.4	-11.7
179	0100 1101	2756.88	2796.8	-0.6	-0.5	26.1	2798.3	-1.5
180	0100 1100	2772.50	2815.0	-0.3	-0.3	18.1	2814.1	0.9
181	0100 1011	2788.13	2823.6	0.5	-0.0	8.6	2830.0	-6.4
182	0100 1010	2803.75	2844.1	0.1	0.1	20.5	2845.8	-1.7
183	0100 1001	2819.38	2863.4	-0.1	0.0	19.2	2861.7	1.7

ORIGINAL PAGE IS
OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 577

1981/11/30 15:05:32 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

HAC TEST 527

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=13)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
184	0100 1000	2835.00	2879.5	-0.1	0.0	16.1	2877.5	2.0
185	0100 0111	2850.63	2883.8	-0.1	3.7	4.3	2893.3	-9.5
186	0100 0110	2866.25	2899.5	0.0	-0.0	15.6	2909.2	-9.7
187	0100 0101	2881.88	2923.0	0.4	0.5	23.5	2925.0	-2.0
188	0100 0100	2897.50	2944.6	-0.6	0.1	21.6	2940.9	3.7
189	0100 0011	2913.13	2950.3	-0.4	-0.4	5.7	2956.7	-6.5
190	0100 0010	2928.75	2971.5	-0.1	0.1	21.2	2972.6	-1.1
191	0100 0001	2944.38	2989.4	0.8	0.8	17.9	2988.4	1.0
192	0100 0000	2960.00	3005.1	-0.0	0.6	15.7	3004.3	0.9
193	0011 1111	2975.63	3012.2	-0.6	4.4	7.0	3020.1	-7.9
194	0011 1110	2991.25	3025.7	-0.1	-0.1	13.6	3035.9	-10.2
195	0011 1101	3006.88	3051.7	0.4	-0.1	26.0	3051.8	-0.1
196	0011 1100	3022.50	3064.5	0.4	0.4	12.8	3067.6	-3.1
197	0011 1011	3038.13	3078.7	-0.0	0.6	14.2	3083.5	-4.8
198	0011 1010	3053.75	3099.5	-0.1	0.1	20.8	3099.3	0.2
199	0011 1001	3069.38	3119.6	-0.0	-0.3	20.1	3115.2	4.4
200	0011 1000	3085.00	3121.0	0.2	0.2	1.4	3131.0	-10.0
201	0011 0111	3100.63	3138.7	0.5	0.6	17.7	3146.9	-8.2
202	0011 0110	3116.25	3155.0	-0.1	0.0	16.3	3162.7	-7.7
203	0011 0101	3131.88	3179.5	-0.6	-0.4	24.5	3178.5	1.0
204	0011 0100	3147.50	3195.4	-0.1	-0.5	15.9	3194.4	1.0
205	0011 0011	3163.13	3205.8	0.5	0.6	10.4	3210.2	-4.5
206	0011 0010	3178.75	3229.4	-0.1	0.2	23.6	3226.1	3.3
207	0011 0001	3194.38	3247.2	-0.6	-0.6	17.9	3241.9	5.3
208	0011 0000	3210.00	3258.6	0.0	-0.0	11.3	3257.8	0.8
209	0010 1111	3225.63	3270.8	-5.3	0.0	12.2	3273.6	-2.8

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 578
1981/11/30 15:05:32 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=13)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
210	0010 1110	3241.25	3278.9	-0.0	0.1	8.1	3289.4	-10.6
211	0010 1101	3256.88	3305.2	-0.1	0.6	26.3	3305.3	-0.1
212	0010 1100	3272.50	3322.8	-0.5	-0.4	17.6	3321.1	1.6
213	0010 1011	3288.13	3332.8	-0.1	-0.5	10.0	3337.0	-4.2
214	0010 1010	3303.75	3353.4	0.0	0.0	20.6	3352.8	0.6
215	0010 1001	3319.38	3373.0	0.5	0.6	19.5	3368.7	4.3
216	0010 1000	3335.00	3385.9	-0.1	0.1	12.9	3384.5	1.3
217	0010 0111	3350.63	3392.9	-0.6	5.3	7.1	3400.4	-7.4
218	0010 0110	3366.25	3409.0	-0.0	0.0	16.1	3416.2	-7.2
219	0010 0101	3381.88	3433.0	0.3	0.4	24.0	3432.0	0.9
220	0010 0100	3397.50	3452.9	-0.1	0.6	19.9	3447.9	5.0
221	0010 0011	3413.13	3460.3	-0.7	-0.6	7.3	3463.7	-3.5
222	0010 0010	3428.75	3484.5	-2.6	0.0	24.2	3479.6	4.9
223	0010 0001	3444.38	3500.5	0.0	0.0	16.1	3495.4	5.1
224	0010 0000	3460.00	3512.4	0.3	0.4	11.9	3511.3	1.1
225	0001 1111	3475.63	3526.7	-0.1	0.4	14.3	3527.1	-0.4
226	0001 1110	3491.25	3534.3	-0.3	-0.1	7.7	3543.0	-8.6
227	0001 1101	3506.88	3561.7	-0.3	-0.6	27.4	3558.8	2.9
228	0001 1100	3522.50	3574.3	0.4	0.4	12.6	3574.6	-0.3
229	0001 1011	3538.13	3588.2	0.4	0.6	13.9	3590.5	-2.2
230	0001 1010	3553.75	3608.7	-0.1	0.0	20.4	3606.3	2.4
231	0001 1001	3569.38	3629.6	-0.6	-0.4	20.9	3622.2	7.5
232	0001 1000	3585.00	3633.7	-0.0	-0.2	4.1	3638.0	-4.3
233	0001 0111	3600.63	3653.9	-4.8	1.4	20.1	3653.9	-0.0
234	0001 0110	3616.25	3664.7	-0.1	0.1	10.9	3669.7	-5.0
235	0001 0101	3631.88	3690.0	-0.7	-0.5	25.3	3685.6	4.5
236	0001 0100	3647.50	3706.1	-0.7	-0.5	16.0	3701.4	4.7

ORIGINAL PAGE IS
OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 579

1981/11/30 15:05:32 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=13)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
237	0001 0011	3663.13	3716.3	0.5	0.2	10.2	3717.2	-0.9
238	0001 0010	3678.75	3739.7	0.0	0.1	23.4	3703.1	6.6
239	0001 0001	3694.38	3758.0	-0.1	0.6	18.3	3748.9	9.0
240	0001 0000	3710.00	3774.0	-0.4	-0.3	16.1	3764.8	9.3
241	0000 1111	3725.63	3782.8	-6.0	-0.5	8.7	3780.6	2.2
242	0000 1110	3741.25	3790.0	0.0	0.1	7.2	3796.5	-6.4
243	0000 1101	3756.88	3816.8	0.4	0.6	26.8	3812.3	4.5
244	0000 1100	3772.50	3834.9	-0.5	0.0	18.0	3828.2	6.7
245	0000 1011	3788.13	3844.6	-0.6	-0.5	9.7	3844.0	0.6
246	0000 1010	3803.75	3864.8	-0.0	0.0	20.2	3859.8	4.9
247	0000 1001	3819.38	3885.2	0.3	0.6	20.5	3875.7	9.6
248	0000 1000	3835.00	3900.7	-0.6	0.4	15.4	3891.5	9.1
249	0000 0111	3850.63	3911.5	-0.7	-0.5	10.8	3907.4	4.1
250	0000 0110	3866.25	3921.0	-1.0	-0.1	9.5	3923.2	-2.2
251	0000 0101	3881.88	3945.8	0.4	-0.0	24.8	3939.1	6.7
252	0000 0100	3897.50	3965.7	0.5	0.7	19.9	3954.9	10.8
253	0000 0011	3913.13	3972.7	-0.0	0.6	7.0	3970.7	1.9
254	0000 0010	3928.75	3997.5	-0.7	-0.7	24.8	3986.6	10.9
255	0000 0001	3944.38	4015.0	-0.5	-0.4	17.4	4002.4	12.5

ORIGINAL PAGE IS
OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 580

1981/11/30 15:11:55 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

HAC TEST 527 NOV 30 '81

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=14)

S U M M A R Y

CHECK 1) RMS ERROR, 2) THRESHOLD INCREMENT(+/- 0.0 <= THRH INC <= 31.2)
THE REMAINING DATA ARE FOR INFORMATION ONLY

BEST FIT STRAIGHT LINE IS: Y =15.839X -41.8MV

DEVIATION OF SLOPE FROM IDEAL IS: 1.369%
OFFSET IS:-41.8MV
COEFFICIENT OF DETERMINATION IS: R**2= .99998420
ANALOG INPUT DURING DC RESTORE IS:64.4MV

RMS ERROR = 4.705MV REQMT: RMS ERROR <=7.812MV

THRESHOLD INCREMENT MEASUREMENT

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
27.0MV	227	15.907MV	3.4MV	200	5.550MV

LOWER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
1.5MV	62	-0.020MV	-1.6MV	235	.630MV

UPPER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
5.0MV	226	0.113MV	-1.5MV	63	.696MV

TEST PASSED

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 581
1981/11/30 15:12:08 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=14)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
THE FOLLOWING DATA ARE FOR INFORMATION ONLY								
1	1111 1111	-24.375	-32.8	-0.6	0.1		-26.0	-6.9
2	1111 1110	-8.750	-18.1	1.0	1.1	14.7	-10.1	-8.0
3	1111 1101	6.875	6.4	-0.3	-0.1	24.6	5.7	0.7
4	1111 1100	22.500	18.6	-0.4	-0.2	12.2	21.6	-2.9
5	1111 1011	38.125	34.7	-0.1	-0.2	16.1	37.4	-2.7
6	1111 1010	53.750	53.4	0.8	0.9	18.6	53.2	0.1
7	1111 1001	69.375	73.1	-0.1	-0.0	19.7	69.1	4.0
8	1111 1000	85.000	80.1	-1.3	-0.0	7.0	84.9	-4.8
9	1111 0111	100.625	94.8	0.2	-0.1	14.6	100.7	-6.0
10	1111 0110	116.250	111.9	1.0	0.1	17.2	116.6	-4.6
11	1111 0101	131.875	134.2	0.0	0.0	22.3	132.4	1.8
12	1111 0100	147.500	149.5	0.0	0.5	15.3	148.3	1.3
13	1111 0011	163.125	162.3	-0.2	-0.1	12.8	164.1	-1.8
14	1111 0010	178.750	185.1	-1.2	-1.1	22.8	179.9	5.2
15	1111 0001	194.375	200.6	-0.1	0.0	15.4	195.8	4.8
16	1111 0000	210.000	209.1	0.5	0.5	8.5	211.6	-2.6
17	1110 1111	225.625	222.1	-0.2	0.0	13.1	227.5	-5.3
18	1110 1110	241.250	237.8	-1.0	-1.1	15.7	243.3	-5.5
19	1110 1101	256.875	261.1	-0.1	-0.1	23.3	259.1	1.9
20	1110 1100	272.500	275.4	0.2	0.3	14.4	275.0	0.5
21	1110 1011	288.125	289.0	0.2	0.3	13.5	290.8	-1.8
22	1110 1010	303.750	309.5	-1.0	-0.0	20.5	306.7	2.8
23	1110 1001	319.375	327.6	0.3	0.5	18.1	322.5	5.1
24	1110 1000	335.000	340.6	1.1	-0.0	13.0	338.3	2.3
25	1110 0111	350.625	349.4	0.2	0.3	8.8	354.2	-4.7

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 582

1981/11/30 15:12:08 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=14)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRATGHT LINE POINT	DEVIATION
26	1110 0110	366.250	366.7	-0.1	1.2	17.3	370.0	-3.3
27	1110 0101	381.875	388.9	-0.3	-0.2	22.2	385.8	3.1
28	1110 0100	397.500	408.7	-0.5	-0.5	19.8	401.7	7.0
29	1110 0011	413.125	416.4	0.1	0.0	7.6	417.5	-1.1
30	1110 0010	428.750	438.6	1.0	1.2	22.2	433.4	5.2
31	1110 0001	444.375	454.8	0.1	-0.0	16.2	449.2	5.6
32	1110 0000	460.000	462.9	0.7	0.8	8.1	465.0	-2.1
33	1101 1111	475.625	477.6	-0.0	-0.1	14.7	480.9	-3.3
34	1101 1110	491.250	491.3	1.0	1.1	13.7	496.7	-5.4
35	1101 1101	506.875	516.5	0.0	0.0	25.2	512.6	4.0
36	1101 1100	522.500	527.6	0.5	0.1	11.1	528.4	-3.8
37	1101 1011	538.125	544.5	-0.2	-0.2	16.9	544.2	0.3
38	1101 1010	553.750	562.8	0.8	-0.1	18.2	560.1	2.7
39	1101 1001	569.375	583.8	-1.0	-0.9	21.0	575.9	7.9
40	1101 1000	585.000	590.7	-0.0	1.2	6.9	591.8	-1.1
41	1101 0111	600.625	604.8	-0.2	-0.1	14.1	607.6	-2.8
42	1101 0110	616.250	622.2	-1.2	-1.2	17.3	623.4	-1.3
43	1101 0101	631.875	643.7	0.3	0.0	21.6	639.3	4.5
44	1101 0100	647.500	659.2	0.3	0.4	15.4	655.1	4.0
45	1101 0011	663.125	671.6	-0.3	0.0	12.4	670.9	0.6
46	1101 0010	678.750	693.7	-0.7	-0.7	22.1	686.8	6.9
47	1101 0001	694.375	709.8	-0.5	0.4	16.1	702.6	7.1
48	1101 0000	710.000	722.1	0.7	0.7	12.4	718.5	3.7
49	1100 1111	725.625	730.9	0.2	0.2	8.8	734.3	-3.4
50	1100 1110	741.250	746.0	-1.1	-0.0	15.1	750.1	-4.1
51	1100 1101	756.875	769.8	-0.1	-0.1	23.8	766.0	3.9

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 583

1981/11/30 15:12:08 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

HAC TEST S27

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=14)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
52	1100 1100	772.500	782.9	0.1	0.0	13.1	781.8	1.1
53	1100 1011	788.125	797.4	0.1	0.2	14.4	797.7	-0.3
54	1100 1010	803.750	816.3	0.0	0.8	18.9	813.5	2.8
55	1100 1001	819.375	835.3	1.3	1.4	19.0	829.3	6.0
56	1100 1000	835.000	852.5	-0.9	-0.9	17.2	845.2	7.4
57	1100 0111	850.625	857.4	0.1	-0.0	4.8	861.0	-3.6
58	1100 0110	866.250	873.9	1.0	1.0	16.5	876.9	-3.0
59	1100 0101	881.875	896.6	-0.4	0.0	22.7	892.7	3.9
60	1100 0100	897.500	916.1	-0.1	-0.1	19.5	908.5	7.5
61	1100 0011	913.125	923.9	-0.1	-0.3	7.8	924.4	-0.5
62	1100 0010	928.750	945.0	1.5	1.4	21.2	940.2	4.8
63	1100 0001	944.375	962.7	-1.5	-1.5	17.7	956.0	6.7
64	1100 0000	960.000	973.9	-0.8	-0.0	11.2	971.9	2.1
65	1011 1111	975.625	985.6	-0.1	-0.1	11.7	987.7	-2.1
66	1011 1110	991.250	999.4	1.1	0.1	13.7	1003.6	-4.2
67	1011 1101	1006.88	1024.7	0.3	0.4	25.3	1019.4	5.3
68	1011 1100	1022.50	1035.1	0.5	1.0	10.4	1035.2	-0.2
69	1011 1011	1038.13	1052.1	-0.3	-0.2	17.0	1051.1	1.0
70	1011 1010	1053.75	1071.8	-1.2	-1.0	19.7	1066.9	4.9
71	1011 1001	1069.38	1090.7	0.1	0.1	18.9	1082.8	8.0
72	1011 1000	1085.00	1094.4	1.4	1.2	3.6	1098.6	-4.2
73	1011 0111	1100.63	1111.9	-0.2	-0.1	17.5	1114.4	-2.6
74	1011 0110	1116.25	1128.9	-0.8	-0.9	17.0	1130.3	-1.4
75	1011 0101	1131.88	1150.6	-0.0	0.4	21.7	1146.1	4.5
76	1011 0100	1147.50	1164.8	0.6	0.6	14.1	1162.0	2.8
77	1011 0011	1163.13	1178.0	0.3	0.3	13.2	1177.8	0.2
78	1011 0010	1178.75	1200.7	-0.7	0.0	22.7	1193.6	7.1

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 584

1981/11/30 15:12:08 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

HAC TEST S27 NOV 30 81

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=14)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
79	1011 0001	1194.38	1216.8	-0.0	-0.0	16.0	1209.5	7.3
80	1011 0000	1210.00	1227.8	0.6	0.0	11.0	1225.3	2.5
81	1010 1111	1225.63	1237.2	0.1	0.1	9.4	1241.1	-3.9
82	1010 1110	1241.25	1251.2	0.0	1.2	13.9	1257.0	-5.8
83	1010 1101	1256.88	1276.6	-0.3	-0.3	25.4	1272.8	3.8
84	1010 1100	1272.50	1290.2	-0.6	-0.7	13.6	1288.7	1.5
85	1010 1011	1288.13	1303.4	0.2	0.0	13.2	1304.5	-1.1
86	1010 1010	1303.75	1322.5	1.1	1.1	19.1	1320.3	2.1
87	1010 1001	1319.38	1342.1	-0.2	-0.0	19.6	1336.2	5.9
88	1010 1000	1335.00	1355.5	-1.0	-1.1	13.4	1352.0	3.5
89	1010 0111	1350.63	1363.0	0.0	-0.1	7.5	1367.9	-4.8
90	1010 0110	1366.25	1379.6	1.1	1.1	16.6	1383.7	-4.1
91	1010 0101	1381.88	1401.8	-0.3	-0.4	22.2	1399.5	2.3
92	1010 0100	1397.50	1420.7	-0.6	-0.0	18.9	1415.4	5.4
93	1010 0011	1413.13	1429.5	-0.3	-0.3	8.7	1431.2	-1.7
94	1010 0010	1428.75	1452.4	0.6	-0.0	22.9	1447.1	5.3
95	1010 0001	1444.38	1467.8	-0.0	0.0	15.4	1462.9	5.0
96	1010 0000	1460.00	1480.6	-0.0	0.0	12.7	1478.7	1.8
97	1001 1111	1475.63	1490.1	-0.1	3.3	9.6	1494.6	-4.4
98	1001 1110	1491.25	1504.1	-1.1	-1.1	13.9	1510.4	-6.3
99	1001 1101	1506.88	1528.8	0.3	0.0	24.8	1526.2	2.6
100	1001 1100	1522.50	1538.4	0.9	0.8	9.5	1542.1	-3.7
101	1001 1011	1538.13	1556.3	-0.4	0.0	17.9	1557.9	-1.7
102	1001 1010	1553.75	1575.4	-1.0	-1.0	19.2	1573.8	1.7
103	1001 1001	1569.38	1594.4	-0.1	-0.1	18.9	1589.6	4.8
104	1001 1000	1585.00	1600.7	1.1	1.1	6.3	1605.4	-4.8

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 585

1981/11/30 15:12:08 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=14)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
105	1001 0111	1600.63	1616.0	-0.0	0.1	15.3	1621.3	-5.3
106	1001 0110	1616.25	1632.5	-1.1	-0.1	16.5	1637.1	-4.6
107	1001 0101	1631.88	1653.5	0.1	1.5	21.0	1653.0	0.5
108	1001 0100	1647.50	1668.3	0.7	0.1	14.8	1668.8	-0.5
109	1001 0011	1663.13	1681.6	0.5	0.3	13.3	1684.6	-3.0
110	1001 0010	1678.75	1703.3	-0.0	0.7	21.6	1700.5	2.8
111	1001 0001	1694.38	1720.1	-0.2	-0.2	16.8	1716.3	3.8
112	1001 0000	1710.00	1736.7	-0.8	-0.8	16.5	1732.2	4.5
113	1000 1111	1725.63	1744.6	0.4	0.0	8.0	1748.0	-3.4
114	1000 1110	1741.25	1754.4	1.1	1.1	9.8	1763.8	-9.4
115	1000 1101	1756.88	1780.4	-0.3	-0.0	25.9	1779.7	0.7
116	1000 1100	1772.50	1793.7	-0.3	-0.3	13.3	1795.5	-1.9
117	1000 1011	1788.13	1807.5	-0.1	-0.2	13.9	1811.3	-3.8
118	1000 1010	1803.75	1825.8	0.9	0.9	18.3	1827.2	-1.4
119	1000 1001	1819.38	1845.2	0.1	0.1	19.3	1843.0	2.1
120	1000 1000	1835.00	1862.3	-1.0	-0.0	17.1	1858.9	3.4
121	1000 0111	1850.63	1867.2	-0.0	0.0	4.9	1874.7	-7.5
122	1000 0110	1866.25	1882.7	1.1	-0.1	15.5	1890.5	-7.8
123	1000 0101	1881.88	1904.5	0.2	0.2	21.8	1906.4	-1.8
124	1000 0100	1897.50	1924.3	0.0	0.6	19.7	1922.2	2.0
125	1000 0011	1913.13	1933.2	-0.3	-0.3	8.9	1938.1	-4.9
126	1000 0010	1928.75	1955.8	-0.6	-0.6	22.6	1953.9	1.9
127	1000 0001	1944.38	1970.7	0.2	0.0	14.9	1969.7	1.0
128	1000 0000	1960.00	1988.7	0.2	0.3	18.0	1985.6	3.1
129	0111 1111	1975.63	1996.2	-0.3	-0.0	7.5	2001.4	-5.2
130	0111 1110	1991.25	2012.4	-1.0	-1.0	16.1	2017.3	-4.9

ORIGINAL PAGE IS
OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 586

1981/11/30 15:12:08 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

HAC TEST 527

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=14)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
131	0111 1101	2006.88	2036.6	-0.0	-0.4	24.2	2033.1	3.5
132	0111 1100	2022.50	2049.5	0.0	0.1	12.9	2048.9	0.6
133	0111 1011	2038.13	2062.6	0.3	0.3	13.1	2064.8	-2.2
134	0111 1010	2053.75	2085.0	-1.0	-0.0	22.4	2080.6	4.4
135	0111 1001	2069.38	2102.8	-0.3	-0.3	17.7	2096.4	6.3
136	0111 1000	2085.00	2106.5	0.9	-0.1	3.8	2112.3	-5.8
137	0111 0111	2100.63	2122.1	0.3	0.3	15.6	2128.1	-6.0
138	0111 0110	2116.25	2139.8	-0.0	1.2	17.7	2144.0	-4.1
139	0111 0101	2131.88	2162.4	0.2	0.1	22.6	2159.8	2.6
140	0111 0100	2147.50	2179.4	-0.6	-0.5	17.0	2175.6	3.8
141	0111 0011	2163.13	2188.8	0.3	-0.1	9.3	2191.5	-2.7
142	0111 0010	2178.75	2213.2	0.6	0.6	24.4	2207.3	5.8
143	0111 0001	2194.38	2228.8	-0.3	-0.2	15.7	2223.2	5.7
144	0111 0000	2210.00	2238.2	-0.7	-0.7	9.4	2239.0	-0.8
145	0110 1111	2225.63	2247.9	-0.0	-0.3	9.7	2254.8	-6.9
146	0110 1110	2241.25	2263.1	1.1	1.1	15.2	2270.7	-7.6
147	0110 1101	2256.88	2287.8	0.5	0.6	24.7	2286.5	1.3
148	0110 1100	2272.50	2305.5	-0.1	0.0	17.6	2302.4	3.1
149	0110 1011	2288.13	2314.4	-0.4	-0.4	9.0	2318.2	-3.8
150	0110 1010	2303.75	2335.7	1.0	-0.0	21.3	2334.0	1.7
151	0110 1001	2319.38	2353.8	0.3	0.3	18.1	2349.9	4.0
152	0110 1000	2335.00	2367.6	-0.2	1.2	13.8	2365.7	1.9
153	0110 0111	2350.63	2373.9	-0.4	-0.4	6.4	2381.5	-7.6
154	0110 0110	2366.25	2397.6	-1.1	-1.1	18.7	2397.4	-4.7
155	0110 0101	2381.88	2414.0	-0.4	-0.3	21.3	2413.2	0.7
156	0110 0100	2397.50	2434.3	0.6	0.5	20.3	2429.1	5.2
157	0110 0011	2413.13	2440.0	-0.1	0.3	5.8	2444.9	-4.9

ORIGINAL PAGE IS OF POOR QUALITY

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=14)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
158	0110 0010	2428.75	2466.2	-0.4	-0.4	26.2	2460.7	5.5
159	0110 0001	2444.38	2480.1	-0.1	-0.3	13.9	2476.6	3.5
160	0110 0000	2460.00	2489.1	-0.1	0.0	9.0	2492.4	-3.4
161	0101 1111	2475.63	2500.6	-0.0	0.1	11.5	2508.3	-7.7
162	0101 1110	2491.25	2516.2	-1.1	0.0	15.6	2524.1	-7.9
163	0101 1101	2506.88	2540.7	-0.0	0.0	24.5	2539.9	0.7
164	0101 1100	2522.50	2554.2	0.1	-0.0	13.5	2555.8	-1.6
165	0101 1011	2538.13	2566.9	0.3	0.4	12.7	2571.6	-4.7
166	0101 1010	2553.75	2587.8	0.0	1.1	21.0	2587.5	0.4
167	0101 1001	2569.38	2606.8	-0.4	-0.3	18.9	2603.3	3.5
168	0101 1000	2585.00	2614.0	-0.6	-1.1	7.2	2619.1	-5.1
169	0101 0111	2600.63	2626.6	0.2	-0.0	12.6	2635.0	-8.4
170	0101 0110	2616.25	2643.6	1.1	1.0	17.0	2650.8	-7.2
171	0101 0101	2631.88	2666.3	1.0	0.1	22.7	2666.6	-0.4
172	0101 0100	2647.50	2683.9	-0.6	-0.6	17.6	2682.5	1.4
173	0101 0011	2663.13	2693.4	0.0	-0.4	9.5	2698.3	-4.9
174	0101 0010	2678.75	2716.8	0.7	0.7	23.4	2714.2	2.7
175	0101 0001	2694.38	2732.5	0.4	0.4	15.6	2730.0	2.5
176	0101 0000	2710.00	2746.7	-0.6	0.2	14.2	2745.8	0.8
177	0100 1111	2725.63	2757.6	-0.4	-0.4	10.9	2761.7	-4.1
178	0100 1110	2741.25	2766.6	1.4	0.0	9.0	2777.5	-10.9
179	0100 1101	2756.88	2792.3	0.5	0.5	25.7	2793.4	-1.1
180	0100 1100	2772.50	2810.1	-0.0	0.3	17.8	2809.2	1.0
181	0100 1011	2788.13	2818.8	-0.4	-0.4	8.7	2825.0	-6.2
182	0100 1010	2803.75	2839.1	0.0	0.0	20.3	2840.9	-1.7
183	0100 1001	2819.38	2857.9	0.3	0.0	18.8	2856.7	1.2

ORIGINAL PAGE IS
OF POOR QUALITY

HAC TEST 527

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=14)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
184	0100 1000	2835.00	2874.8	0.8	0.7	16.9	2872.6	2.3
185	0100 0111	2850.63	2878.6	-0.3	0.0	3.7	2888.4	-9.8
186	0100 0110	2866.25	2896.4	-1.1	-1.1	17.9	2904.2	-7.8
187	0100 0101	2881.88	2917.7	-0.1	-0.3	21.3	2920.1	-2.3
188	0100 0100	2897.50	2939.1	0.1	0.3	21.3	2935.9	3.2
189	0100 0011	2913.13	2944.6	0.5	0.5	5.5	2951.7	-7.1
190	0100 0010	2928.75	2968.3	-0.0	2.1	23.6	2967.6	0.7
191	0100 0001	2944.38	2984.3	-0.1	-0.2	16.0	2983.4	0.9
192	0100 0000	2960.00	3000.6	0.6	-0.0	16.3	2999.3	1.3
193	0011 1111	2975.63	3006.7	0.1	0.2	6.1	3015.1	-8.4
194	0011 1110	2991.25	3021.5	0.0	1.1	14.8	3030.9	-9.5
195	0011 1101	3006.88	3048.1	-0.6	-0.4	26.7	3046.8	1.3
196	0011 1100	3022.50	3059.9	-0.2	-0.1	11.8	3062.6	-2.7
197	0011 1011	3038.13	3073.2	0.4	0.0	13.3	3078.5	-5.2
198	0011 1010	3053.75	3095.2	0.7	0.7	22.0	3094.3	0.9
199	0011 1001	3069.38	3114.1	-0.7	-0.0	18.8	3110.1	4.0
200	0011 1000	3085.00	3117.5	-1.1	-1.3	3.4	3126.0	-8.5
201	0011 0111	3100.63	3133.6	0.0	0.0	16.1	3141.8	-8.2
202	0011 0110	3116.25	3150.8	1.0	1.1	17.2	3157.7	-6.8
203	0011 0101	3131.88	3174.9	0.4	0.4	24.1	3173.5	1.4
204	0011 0100	3147.50	3190.3	-0.7	-0.1	15.3	3189.3	0.9
205	0011 0011	3163.13	3200.9	-0.6	-0.6	10.6	3205.2	-4.3
206	0011 0010	3178.75	3224.5	1.2	-0.0	23.6	3221.0	3.5
207	0011 0001	3194.38	3240.6	0.3	0.4	16.1	3236.8	3.8
208	0011 0000	3210.00	3252.8	-0.3	0.1	12.2	3252.7	0.1
209	0010 1111	3225.63	3260.2	-0.5	-0.2	7.3	3268.5	-8.3

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 589

1981/11/30 15:12:08 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5--8 A/D THRESHOLD TEST (BAND= 3, SENSOR=14)

HAC TEST 527

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
210	0010 1110	3241.25	3276.1	-1.2	-1.2	15.9	3284.4	-8.2
211	0010 1101	3256.88	3301.0	0.6	0.0	24.9	3300.2	0.8
212	0010 1100	3272.50	3317.1	0.6	0.7	16.1	3316.0	1.1
213	0010 1011	3288.13	3327.1	-0.4	0.1	10.0	3331.9	-4.7
214	0010 1010	3303.75	3350.0	-0.9	-0.9	22.9	3347.7	2.3
215	0010 1001	3319.38	3367.6	-0.2	-0.3	17.6	3363.6	4.1
216	0010 1000	3335.00	3380.8	0.9	1.0	13.2	3379.4	1.4
217	0010 0111	3350.63	3387.8	0.0	0.0	7.0	3395.2	-7.4
218	0010 0110	3366.25	3405.9	-1.2	0.0	18.1	3411.1	-5.2
219	0010 0101	3381.88	3428.7	-0.0	0.2	22.8	3426.9	1.7
220	0010 0100	3397.50	3447.4	0.7	0.1	18.8	3442.8	4.7
221	0010 0011	3413.13	3454.3	0.4	0.5	6.8	3458.6	-4.3
222	0010 0010	3428.75	3479.6	-0.1	0.6	25.3	3474.4	5.1
223	0010 0001	3444.38	3494.8	-0.3	-0.1	15.2	3490.3	4.5
224	0010 0000	3460.00	3508.2	-0.1	0.1	13.4	3506.1	2.1
225	0001 1111	3475.63	3515.7	0.2	-0.1	7.5	3521.9	-6.2
226	0001 1110	3491.25	3530.0	1.0	5.0	14.3	3537.8	-7.8
227	0001 1101	3506.88	3557.0	-0.4	-0.1	27.0	3553.6	3.4
228	0001 1100	3522.50	3569.2	-0.1	-0.1	12.2	3569.5	-0.2
229	0001 1011	3538.13	3583.0	0.3	-0.3	13.7	3585.3	-2.3
230	0001 1010	3553.75	3604.2	0.4	0.8	21.2	3601.1	3.1
231	0001 1001	3569.38	3623.0	0.3	0.5	18.8	3617.0	6.0
232	0001 1000	3585.00	3629.8	-1.3	0.0	6.8	3632.8	-3.0
233	0001 0111	3600.63	3643.8	-0.3	-0.3	13.9	3648.7	-4.9
234	0001 0110	3616.25	3660.1	1.2	-0.1	16.3	3664.5	-4.4
235	0001 0101	3631.88	3685.2	-1.6	0.6	25.1	3680.3	4.9
236	0001 0100	3647.50	3699.9	-0.1	0.6	14.7	3696.2	3.7

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 590

1981/11/30 15:12:08 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=14)

HAC TEST S27

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
237	0001 0011	3663.13	3711.2	-0.3	-0.5	11.3	3712.0	-0.8
238	0001 0010	3678.75	3736.1	-1.4	-1.4	24.9	3727.9	8.2
239	0001 0001	3694.38	3751.2	0.2	0.0	15.1	3743.7	7.5
240	0001 0000	3710.00	3767.9	0.6	0.7	16.8	3759.5	8.4
241	0000 1111	3725.63	3777.0	-0.3	0.0	9.1	3775.4	1.7
242	0000 1110	3741.25	3786.6	-1.0	-1.1	9.6	3791.2	-4.6
243	0000 1101	3756.88	3812.9	-0.1	-0.6	26.2	3807.0	5.8
244	0000 1100	3772.50	3829.3	0.1	0.2	16.4	3822.9	6.4
245	0000 1011	3788.13	3838.6	0.4	0.4	9.3	3838.7	-0.1
246	0000 1010	3803.75	3861.1	-1.0	0.1	22.5	3854.6	6.5
247	0000 1001	3819.38	3879.1	-0.7	1.7	18.0	3870.4	8.7
248	0000 1000	3835.00	3895.6	0.2	0.0	16.4	3886.2	9.3
249	0000 0111	3850.63	3899.6	0.2	0.3	4.1	3902.1	-2.4
250	0000 0110	3866.25	3916.1	0.0	1.3	16.4	3917.9	-1.8
251	0000 0101	3881.88	3942.0	-0.8	-0.6	25.9	3933.8	8.2
252	0000 0100	3897.50	3960.6	-0.2	-0.3	18.6	3949.6	11.0
253	0000 0011	3913.13	3966.8	0.4	0.2	6.3	3965.4	1.4
254	0000 0010	3928.75	3991.8	0.5	0.6	25.0	3981.3	10.5
255	0000 0001	3944.38	4007.6	-0.7	-0.0	15.8	3997.1	10.5

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 591

1981/11/30 15:18:31 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

HAC TEST 527

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=15)

NOV 30 81

S U M M A R Y

CHECK 1) RMS ERROR, 2) THRESHOLD INCREMENT(+/- 0.0 <= THRH INC <= 31.2)
THE REMAINING DATA ARE FOR INFORMATION ONLY

BEST FIT STRAIGHT LINE IS: Y =15.859X -37.3MV

DEVIATION OF SLOPE FROM IDEAL IS: 1.498%
OFFSET IS:-37.3MV
COEFFICIENT OF DETERMINATION IS: R**2= .99998420
ANALOG INPUT DURING DC RESTORE IS:64.4MV

RMS ERROR = 4.632MV REQMT: RMS ERROR <=7.812MV

THRESHOLD INCREMENT MEASUREMENT

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
27.2MV	243	5.927MV	1.1MV	241	5.789MV

LOWER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
2.1MV	214	-0.020MV	-2.0MV	201	.384MV

UPPER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
5.3MV	153	0.100MV	-0.7MV	58	.575MV

TEST PASSED

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 592
1981/11/30 15:18:44 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

HAC TEST 527

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=15)

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
THE FOLLOWING DATA ARE FOR INFORMATION ONLY								
1	1111 1111	-24.375	-28.6	-0.9	1.2		-21.5	-7.1
2	1111 1110	-8.750	-13.9	-0.5	-0.5	14.6	-5.6	-8.3
3	1111 1101	6.875	10.5	0.1	0.2	24.4	10.2	0.3
4	1111 1100	22.500	23.5	0.0	0.0	13.0	26.1	-2.6
5	1111 1011	38.125	38.8	-0.3	-0.0	15.3	42.0	-3.1
6	1111 1010	53.750	57.9	-0.5	-0.4	19.0	57.8	0.1
7	1111 1001	69.375	77.9	-0.2	-0.2	20.0	73.7	4.2
8	1111 1000	85.000	82.5	0.5	0.4	4.6	89.5	-7.0
9	1111 0111	100.625	99.2	0.2	0.3	16.7	105.4	-6.2
10	1111 0110	116.250	116.5	-0.5	-0.4	17.2	121.2	-4.8
11	1111 0101	131.875	138.8	-0.3	-0.1	22.3	137.1	1.7
12	1111 0100	147.500	154.9	-0.1	0.0	16.1	153.0	2.0
13	1111 0011	163.125	166.5	0.2	0.2	11.6	168.8	-2.3
14	1111 0010	178.750	188.0	-0.1	0.4	21.5	184.7	3.3
15	1111 0001	194.375	205.5	-0.2	-0.1	17.5	200.5	4.9
16	1111 0000	210.000	215.5	-0.1	-0.1	10.0	216.4	-0.9
17	1110 1111	225.625	226.6	0.1	1.0	11.1	232.3	-5.7
18	1110 1110	241.250	240.9	0.4	0.5	14.4	248.1	-7.2
19	1110 1101	256.875	265.8	-0.2	0.1	24.9	264.0	1.9
20	1110 1100	272.500	281.4	0.0	0.1	15.6	279.8	1.6
21	1110 1011	288.125	293.8	-0.1	-0.2	12.3	295.7	-1.9
22	1110 1010	303.750	312.8	0.3	0.4	19.0	311.6	1.3
23	1110 1001	319.375	332.6	0.0	0.2	19.8	327.4	5.2
24	1110 1000	335.000	345.5	-0.5	-0.4	12.8	343.3	2.2
25	1110 0111	350.625	354.3	-0.2	-0.1	8.8	359.1	-4.8

ORIGINAL PAGE IS OF POOR QUALITY

1981/11/30 15:18:44 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=15)

HAC TEST 527
NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
26	1110 0110	366.250	371.2	0.4	-0.1	16.9	375.0	-3.8
27	1110 0101	381.875	393.6	0.1	0.2	22.3	390.9	2.7
28	1110 0100	397.500	413.3	-0.0	0.2	19.7	406.7	6.6
29	1110 0011	413.125	421.3	-0.1	-0.1	8.0	422.6	-1.2
30	1110 0010	428.750	443.3	-0.4	-0.4	22.0	438.4	4.9
31	1110 0001	444.375	459.9	-0.1	0.1	16.6	454.3	5.6
32	1110 0000	460.000	466.9	0.3	0.4	7.0	470.1	-3.3
33	1101 1111	475.625	482.7	0.0	0.5	15.8	486.0	-3.3
34	1101 1110	491.250	496.5	-0.6	-0.4	13.8	501.9	-5.3
35	1101 1101	506.875	521.9	-0.2	-0.2	25.3	517.7	4.2
36	1101 1100	522.500	534.1	0.0	0.1	12.2	533.6	0.5
37	1101 1011	538.125	549.3	0.2	0.2	15.2	549.4	-0.2
38	1101 1010	553.750	568.0	-0.5	-0.4	18.8	565.3	2.7
39	1101 1001	569.375	588.3	-0.2	-0.0	20.2	581.2	7.1
40	1101 1000	585.000	595.7	0.3	-0.1	7.4	597.0	-1.3
41	1101 0111	600.625	609.8	0.1	0.1	14.1	612.9	-3.1
42	1101 0110	616.250	626.0	-0.1	0.4	16.2	628.7	-2.7
43	1101 0101	631.875	649.4	-0.2	-0.2	23.3	644.6	4.8
44	1101 0100	647.500	664.9	-0.1	0.0	15.6	660.5	4.5
45	1101 0011	663.125	676.5	0.2	0.3	11.6	676.3	0.2
46	1101 0010	678.750	697.6	0.2	0.3	21.1	692.2	5.4
47	1101 0001	694.375	714.9	-0.1	0.1	17.3	708.0	6.8
48	1101 0000	710.000	729.5	-0.1	-0.1	14.6	723.9	5.6
49	1100 1111	725.625	736.6	-0.0	0.5	7.0	739.8	-3.2
50	1100 1110	741.250	749.9	0.6	0.6	13.3	755.6	-5.7
51	1100 1101	756.875	775.4	0.2	0.3	25.5	771.5	3.9

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 594

1981/11/30 15:18:44 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=15)

HAC TEST S27

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
52	1100 1100	772.500	788.9	-0.0	0.0	13.6	787.3	1.6
53	1100 1011	788.125	802.9	-0.5	-0.4	14.0	803.2	-0.2
54	1100 1010	803.750	821.7	0.2	-0.0	18.7	819.0	2.6
55	1100 1001	819.375	841.1	0.0	0.2	19.4	834.9	6.2
56	1100 1000	835.000	856.7	0.0	0.3	15.6	850.8	5.9
57	1100 0111	850.625	862.9	-0.0	0.0	6.2	866.6	-3.7
58	1100 0110	866.250	879.6	-0.7	-0.7	16.7	882.5	-2.9
59	1100 0101	881.875	902.1	-0.2	0.2	22.4	898.3	3.7
60	1100 0100	897.500	921.9	0.0	0.1	19.8	914.2	7.7
61	1100 0011	913.125	929.5	-0.3	0.0	7.5	930.1	-0.6
62	1100 0010	928.750	950.8	-0.5	-0.4	21.4	945.9	4.9
63	1100 0001	944.375	967.2	0.0	0.0	16.3	961.8	5.4
64	1100 0000	960.000	979.4	0.0	0.1	12.2	977.6	1.8
65	1011 1111	975.625	995.0	0.2	0.2	15.5	993.5	1.5
66	1011 1110	991.250	1005.5	-0.5	-0.5	10.5	1009.4	-3.8
67	1011 1101	1006.88	1031.0	-0.3	-0.3	25.5	1025.2	5.8
68	1011 1100	1022.50	1042.5	0.2	0.0	11.4	1041.1	1.4
69	1011 1011	1038.13	1057.8	0.3	0.3	15.3	1056.9	0.9
70	1011 1010	1053.75	1076.6	-0.1	0.0	18.8	1072.8	3.8
71	1011 1001	1069.38	1097.2	-0.3	-0.3	20.6	1088.6	8.6
72	1011 1000	1085.00	1100.5	-0.3	-0.3	3.3	1104.5	-4.0
73	1011 0111	1100.63	1117.6	0.2	0.3	17.1	1120.4	-2.7
74	1011 0110	1116.25	1133.8	0.4	0.4	16.2	1136.2	-2.4
75	1011 0101	1131.88	1157.6	-0.2	0.2	23.7	1152.1	5.5
76	1011 0100	1147.50	1172.0	0.0	-0.1	14.4	1167.9	4.1
77	1011 0011	1163.13	1184.3	-0.1	-0.3	12.3	1183.8	0.5
78	1011 0010	1178.75	1206.4	0.3	0.3	22.1	1199.7	6.8

ORIGINAL PAGE IS OF POOR QUALITY

1981/11/30 15:18:41 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=15)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
79	1011 0001	1194.38	1222.9	0.2	0.3	16.5	1215.5	7.4
80	1011 0000	1210.00	1236.1	-0.1	-0.2	13.2	1231.4	4.7
81	1010 1111	1225.63	1247.2	-0.2	-0.2	11.1	1247.2	-0.0
82	1010 1110	1241.25	1257.2	0.3	-0.0	10.0	1263.1	-5.9
83	1010 1101	1256.88	1282.1	0.7	0.8	25.0	1279.0	3.2
84	1010 1100	1272.50	1297.7	0.0	-0.0	15.6	1294.8	2.9
85	1010 1011	1288.13	1309.7	-0.2	-0.2	11.9	1310.7	-1.0
86	1010 1010	1303.75	1329.3	-0.6	-0.6	19.6	1326.5	2.7
87	1010 1001	1319.38	1348.4	0.1	0.3	19.1	1342.4	6.0
88	1010 1000	1335.00	1360.5	0.4	0.4	12.1	1358.3	2.3
89	1010 0111	1350.63	1369.6	-0.3	0.1	9.0	1374.1	-4.6
90	1010 0110	1366.25	1386.1	-0.5	-0.4	16.6	1390.0	-3.8
91	1010 0101	1381.88	1409.1	0.2	0.0	22.9	1405.8	3.2
92	1010 0100	1397.50	1427.2	0.1	0.2	18.1	1421.7	5.5
93	1010 0011	1413.13	1435.3	0.1	0.0	8.1	1437.5	-2.2
94	1010 0010	1428.75	1457.8	-0.5	-0.4	22.4	1453.4	4.4
95	1010 0001	1444.38	1474.0	0.0	-0.0	16.2	1469.3	4.7
96	1010 0000	1460.00	1486.3	0.3	0.2	12.3	1485.1	1.2
97	1001 1111	1475.63	1499.3	0.4	0.2	13.0	1501.0	-1.6
98	1001 1110	1491.25	1509.1	0.0	0.6	9.8	1516.8	-7.7
99	1001 1101	1506.88	1535.4	-0.2	-0.0	26.3	1532.7	2.7
100	1001 1100	1522.50	1546.9	0.0	0.0	11.5	1548.6	-1.6
101	1001 1011	1538.13	1562.1	0.3	0.4	15.2	1564.4	-2.3
102	1001 1010	1553.75	1580.6	-0.1	-0.1	18.5	1580.3	0.4
103	1001 1001	1569.38	1601.1	-0.2	0.0	20.4	1596.1	4.9
104	1001 1000	1585.00	1607.4	-0.4	-0.4	6.3	1612.0	-4.6

ORIGINAL PAGE IS
OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 596
1981/11/30 15:18:44 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=15)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
105	1001 0111	1600.63	1622.4	-0.1	-0.1	15.0	1627.9	-5.5
106	1001 0110	1616.25	1637.2	1.0	1.0	14.8	1643.7	-6.6
107	1001 0101	1631.88	1661.3	-0.0	0.0	24.1	1659.6	1.7
108	1001 0100	1647.50	1675.7	-0.1	0.1	14.4	1675.4	0.3
109	1001 0011	1663.13	1688.3	-0.1	-0.1	12.6	1691.3	-3.0
110	1001 0010	1678.75	1709.7	0.1	0.1	21.4	1707.2	2.6
111	1001 0001	1694.38	1725.8	0.7	1.0	16.1	1723.0	2.8
112	1001 0000	1710.00	1744.6	-0.0	0.0	18.7	1738.9	5.7
113	1000 1111	1725.63	1750.7	0.2	0.2	6.2	1754.7	-4.0
114	1000 1110	1741.25	1761.0	-0.4	-0.3	10.3	1770.6	-9.6
115	1000 1101	1756.88	1786.5	0.4	0.7	25.5	1786.4	0.1
116	1000 1100	1772.50	1800.6	0.0	0.1	14.1	1802.3	-1.7
117	1000 1011	1788.13	1813.9	-0.3	0.2	13.2	1818.2	-4.3
118	1000 1010	1803.75	1832.6	-0.3	-0.2	18.8	1834.0	-1.4
119	1000 1001	1819.38	1852.1	-0.1	-0.2	19.5	1849.9	2.2
120	1000 1000	1835.00	1867.1	0.7	0.7	15.0	1865.7	1.4
121	1000 0111	1850.63	1873.7	0.1	0.2	6.5	1881.6	-8.0
122	1000 0110	1866.25	1889.4	-0.3	-0.1	15.7	1897.5	-8.1
123	1000 0101	1881.88	1913.2	-0.3	-0.2	23.9	1913.3	-0.1
124	1000 0100	1897.50	1930.7	0.3	0.1	17.5	1929.2	1.6
125	1000 0011	1913.13	1939.3	0.2	0.3	8.5	1945.0	-5.7
126	1000 0010	1928.75	1961.3	-0.0	0.7	22.0	1960.9	0.4
127	1000 0001	1944.38	1978.0	-0.2	-0.2	16.7	1976.8	1.2
128	1000 0000	1960.00	1996.2	-0.0	0.0	18.2	1992.6	3.6
129	0111 1111	1975.63	2002.3	0.3	5.0	6.1	2008.5	-6.2
130	0111 1110	1991.25	2018.0	0.2	0.4	15.7	2024.3	-6.3

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 597

1981/11/30 15:18:44 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=15)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
131	0111 1101	2006.88	2043.5	-0.3	0.1	25.5	2040.2	3.3
132	0111 1100	2022.50	2056.7	0.4	0.4	13.2	2056.1	0.6
133	0111 1011	2038.13	2069.7	-0.1	-0.5	13.0	2071.9	-2.3
134	0111 1010	2053.75	2090.7	0.5	0.4	21.0	2087.8	2.9
135	0111 1001	2069.38	2110.1	0.2	0.1	19.5	2103.6	6.5
136	0111 1000	2085.00	2113.7	-0.3	-0.3	3.6	2119.5	-5.8
137	0111 0111	2100.63	2129.6	-0.1	-0.1	15.9	2135.3	-5.7
138	0111 0110	2116.25	2146.6	0.5	0.1	17.0	2151.2	-4.6
139	0111 0101	2131.88	2169.6	0.9	0.9	23.0	2167.1	2.6
140	0111 0100	2147.50	2187.1	-0.0	0.1	17.5	2182.9	4.2
141	0111 0011	2163.13	2195.9	-0.1	-0.1	8.8	2198.8	-2.8
142	0111 0010	2178.75	2221.1	-0.4	-0.5	25.1	2214.6	6.4
143	0111 0001	2194.38	2236.0	0.4	0.4	14.9	2230.5	5.5
144	0111 0000	2210.00	2246.4	-0.0	0.0	10.3	2246.4	0.0
145	0110 1111	2225.63	2260.4	-0.4	-0.0	14.0	2262.2	-1.9
146	0110 1110	2241.25	2270.5	-0.3	-0.1	10.1	2278.1	-7.6
147	0110 1101	2256.88	2295.7	-0.0	-0.3	25.2	2293.9	1.7
148	0110 1100	2272.50	2312.7	0.0	0.2	17.1	2309.8	2.9
149	0110 1011	2288.13	2321.0	0.4	0.2	8.3	2325.7	-4.6
150	0110 1010	2303.75	2343.1	0.0	0.0	22.0	2341.5	1.6
151	0110 1001	2319.38	2361.7	-0.2	-0.1	18.6	2357.4	4.3
152	0110 1000	2335.00	2374.9	0.5	-0.0	13.2	2373.2	1.7
153	0110 0111	2350.63	2380.8	0.3	5.3	5.9	2389.1	-8.3
154	0110 0110	2366.25	2398.7	-0.1	0.5	17.9	2404.9	-6.3
155	0110 0101	2381.88	2421.9	-0.1	-0.1	23.2	2420.8	1.1
156	0110 0100	2397.50	2442.8	-0.1	-0.1	20.9	2436.7	6.1
157	0110 0011	2413.13	2447.1	0.4	0.3	4.3	2452.5	-5.4

HAC TEST S27

ORIGINAL PAGE IS OF POOR QUALITY

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=15)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
158	0110 0010	2428.75	2470.5	0.4	0.5	23.3	2468.4	2.1
159	0110 0001	2444.38	2487.5	-0.1	0.2	17.0	2484.2	3.3
160	0110 0000	2460.00	2496.4	-0.2	-0.3	8.9	2500.1	-3.7
161	0101 1111	2475.63	2513.7	-0.0	-0.4	17.2	2516.0	-2.3
162	0101 1110	2491.25	2522.5	0.3	0.3	8.8	2531.8	-9.4
163	0101 1101	2506.88	2548.3	0.2	0.2	25.9	2547.7	0.6
164	0101 1100	2522.50	2562.7	-0.3	-0.0	14.4	2563.5	-0.8
165	0101 1011	2538.13	2574.5	-0.4	-0.4	11.8	2579.4	-4.8
166	0101 1010	2553.75	2595.3	0.3	-0.0	20.7	2595.3	0.0
167	0101 1001	2569.38	2614.5	0.1	0.3	19.2	2611.1	3.4
168	0101 1000	2585.00	2620.5	-0.1	0.4	6.1	2627.0	-6.4
169	0101 0111	2600.63	2639.8	-0.1	-0.1	19.2	2642.8	-3.1
170	0101 0110	2616.25	2651.5	-0.4	-0.4	11.7	2658.7	-7.2
171	0101 0101	2631.88	2675.0	0.3	0.1	23.5	2674.6	0.5
172	0101 0100	2647.50	2692.2	-0.0	0.0	17.2	2690.4	1.8
173	0101 0011	2663.13	2700.8	-0.4	0.0	8.6	2706.3	-5.5
174	0101 0010	2678.75	2725.3	-0.4	-0.4	24.5	2722.1	3.2
175	0101 0001	2694.38	2740.7	-0.1	-0.2	15.3	2738.0	2.7
176	0101 0000	2710.00	2755.8	0.2	0.1	15.1	2753.8	1.9
177	0100 1111	2725.63	2765.3	0.2	0.3	9.5	2769.7	-4.4
178	0100 1110	2741.25	2775.0	-0.2	-0.1	7.7	2785.6	-10.6
179	0100 1101	2756.88	2800.5	-0.5	-0.5	25.5	2801.4	-0.9
180	0100 1100	2772.50	2818.1	0.0	-0.1	17.6	2817.3	0.8
181	0100 1011	2788.13	2826.1	0.2	0.2	8.1	2833.1	-7.0
182	0100 1010	2803.75	2847.1	-0.1	0.0	21.0	2849.0	-1.9
183	0100 1001	2819.38	2866.4	-0.3	-0.2	19.3	2864.9	1.6

ORIGINAL PAGE IS
OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 599
1981/11/30 15:18:44 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=15)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
184	0100 1000	2835.00	2883.1	-0.4	-0.4	16.7	2880.7	2.4
185	0100 0111	2850.63	2891.6	0.0	0.1	8.5	2896.6	-4.9
186	0100 0110	2866.25	2903.0	0.5	0.9	11.4	2912.4	-9.4
187	0100 0101	2881.88	2927.1	-0.3	0.1	24.0	2928.3	-1.2
188	0100 0100	2897.50	2948.1	-0.2	0.0	21.0	2944.2	3.9
189	0100 0011	2913.13	2952.8	-0.1	-0.3	4.8	2960.0	-7.2
190	0100 0010	2928.75	2975.3	0.3	0.4	22.5	2975.9	-0.5
191	0100 0001	2944.38	2992.4	0.2	0.3	17.1	2991.7	0.7
192	0100 0000	2960.00	3008.6	-0.0	0.0	16.1	3007.6	1.0
193	0011 1111	2975.63	3020.7	-0.0	-0.0	12.2	3023.5	-2.7
194	0011 1110	2991.25	3029.5	0.4	0.0	8.8	3039.3	-9.8
195	0011 1101	3006.88	3055.8	0.1	0.3	26.3	3055.2	0.7
196	0011 1100	3022.50	3068.6	-0.1	0.2	12.7	3071.0	-2.5
197	0011 1011	3038.13	3081.7	-0.3	-0.1	13.2	3086.9	-5.1
198	0011 1010	3053.75	3103.7	-0.3	-0.3	21.9	3102.7	0.9
199	0011 1001	3069.38	3122.7	0.3	0.2	19.1	3118.6	4.1
200	0011 1000	3085.00	3124.5	0.4	0.4	1.8	3134.5	-9.9
201	0011 0111	3100.63	3147.8	-2.0	0.1	23.2	3150.3	-2.5
202	0011 0110	3116.25	3159.5	-0.6	-0.6	11.7	3166.2	-6.6
203	0011 0101	3131.88	3183.7	-0.1	-0.4	24.2	3182.0	1.7
204	0011 0100	3147.50	3199.3	0.0	0.1	15.5	3197.9	1.4
205	0011 0011	3163.13	3208.4	-0.1	0.1	9.2	3213.8	-5.3
206	0011 0010	3178.75	3233.4	-0.8	-0.6	25.0	3229.6	3.8
207	0011 0001	3194.38	3249.7	-0.4	-0.3	16.2	3245.5	4.2
208	0011 0000	3210.00	3262.7	0.7	0.0	13.0	3261.3	1.3
209	0010 1111	3225.63	3274.7	0.1	0.0	12.0	3277.2	-2.5

ORIGINAL PAGE IS
OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST · MODEL.. FLT. S/N 3 PAGE 600
1981/11/30 15:18:44 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

2.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=15)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
210	0010 1110	3241.25	3263.5	-0.2	0.4	8.9	3293.1	-9.5
211	0010 1101	3256.88	3310.0	-0.4	-0.4	26.4	3308.9	1.1
212	0010 1100	3272.50	3326.4	-0.1	-0.1	16.4	3324.8	1.6
213	0010 1011	3288.13	3335.5	0.1	0.1	9.1	3340.6	-5.1
214	0010 1010	3303.75	3355.3	2.1	1.7	19.8	3356.5	-1.2
215	0010 1001	3319.38	3377.7	-0.3	-0.0	22.4	3372.3	5.4
216	0010 1000	3335.00	3389.7	-0.4	-0.3	12.0	3388.2	1.5
217	0010 0111	3350.63	3402.0	-0.5	-0.1	12.3	3404.1	-2.1
218	0010 0110	3366.25	3413.1	0.6	0.5	11.1	3419.9	-6.8
219	0010 0101	3381.88	3437.6	0.2	0.3	24.5	3435.8	1.8
220	0010 0100	3397.50	3457.4	-0.1	0.0	19.8	3451.6	5.7
221	0010 0011	3413.13	3463.0	-0.6	-0.5	5.6	3467.5	-4.5
222	0010 0010	3428.75	3488.6	0.7	0.0	25.6	3483.4	5.2
223	0010 0001	3444.38	3503.4	0.3	0.3	14.9	3499.2	4.2
224	0010 0000	3460.00	3516.7	-0.1	-0.1	13.3	3515.1	1.6
225	0001 1111	3475.63	3524.4	-0.5	-0.4	7.7	3530.9	-6.5
226	0001 1110	3491.25	3539.0	-0.5	-0.5	14.6	3546.8	-7.8
227	0001 1101	3506.88	3565.0	-0.1	-0.0	26.0	3562.7	2.4
228	0001 1100	3522.50	3578.7	0.2	0.1	13.7	3578.5	0.2
229	0001 1011	3538.13	3591.4	-0.0	0.0	12.7	3594.4	-3.0
230	0001 1010	3553.75	3610.4	-0.3	-0.4	18.9	3610.2	0.1
231	0001 1001	3569.38	3632.7	-0.4	1.0	22.4	3626.1	6.6
232	0001 1000	3585.00	3637.4	0.2	0.4	4.6	3642.0	-4.6
233	0001 0111	3600.63	3651.9	-0.0	0.0	14.6	3657.8	-5.9
234	0001 0110	3616.25	3669.6	-0.6	-0.5	17.7	3673.7	-4.1
235	0001 0101	3631.88	3694.1	-0.5	0.0	24.5	3689.5	4.6
236	0001 0100	3647.50	3710.1	0.0	0.1	16.0	3705.4	4.7

ORIGINAL PAGE IS OF POOR QUALITY

3-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 601
981/11/30 15:18:44 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

.5.3.5-B A/D THRESHOLD TEST (BAND= 3, SENSOR=15)

RESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
237	0001 0011	3663.13	3719.6	0.4	0.5	9.4	3721.2	-1.7
238	0001 0010	3678.75	3742.6	-0.1	-0.0	23.1	3737.1	5.5
239	0001 0001	3694.38	3760.7	-0.4	-0.2	18.1	3753.0	7.7
240	0001 0000	3710.00	3778.9	-0.0	0.0	18.2	3768.8	10.1
241	0000 1111	3725.63	3780.1	0.1	0.1	1.1	3784.7	-4.6
242	0000 1110	3741.25	3794.5	0.3	0.6	14.4	3800.5	-6.0
243	0000 1101	3756.88	3821.7	-0.4	-0.1	27.2	3816.4	5.3
244	0000 1100	3772.50	3838.7	-0.2	-0.1	17.0	3832.3	6.5
245	0000 1011	3788.13	3847.8	0.0	-0.1	9.0	3848.1	-0.4
246	0000 1010	3803.75	3867.8	1.6	1.0	20.1	3864.0	3.9
247	0000 1001	3819.38	3887.7	0.9	1.1	19.8	3879.8	7.8
248	0000 1000	3835.00	3903.8	-0.0	-0.6	16.1	3895.7	8.1
249	0000 0111	3850.63	3908.8	-0.9	-0.4	5.1	3911.6	-2.7
250	0000 0110	3866.25	3925.4	0.4	0.1	16.5	3927.4	-2.1
251	0000 0101	3881.88	3950.2	-0.1	0.6	24.8	3943.3	6.9
252	0000 0100	3897.50	3970.6	-0.0	0.0	20.4	3959.1	11.4
253	0000 0011	3913.13	3976.5	-0.3	0.1	6.0	3975.0	1.6
254	0000 0010	3928.75	4000.7	-0.0	0.0	24.1	3990.9	9.8
255	0000 0001	3944.38	4016.8	-0.0	0.2	16.1	4006.7	10.1

ORIGINAL PAGE IS
OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 602
1981/11/30 15:25:07 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=16)

S U M M A R Y

CHECK 1) RMS ERROR, 2) THRESHOLD INCREMENT(+/- 0.0 <= THRH INC <= 31.2)
THE REMAINING DATA ARE FOR INFORMATION ONLY

BEST FIT STRAIGHT LINE IS: Y =15.837X -41.3MV

DEVIATION OF SLOPE FROM IDEAL IS: 1.359%
OFFSET IS:-41.3MV
COEFFICIENT OF DETERMINATION IS: R**2= .99998150
ANALOG INPUT DURING DC RESTORE IS:64.5MV

RMS ERROR = 4.767MV REQMT: RMS ERROR <=7.812MV

THRESHOLD INCREMENT MEASUREMENT

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
26.5MV	227	15.904MV	1.8MV	241	5.568MV

LOWER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
1.0MV	231	-0.055MV	-3.4MV	32	.323MV

UPPER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
2.8MV	222	0.001MV	-0.6MV	64	.275MV

TEST PASSED

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 603

1981/11/30 15:25:20 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=16)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
THE FOLLOWING DATA ARE FOR INFORMATION ONLY								
1	1111 1111	-24.375	-32.4	-0.4	0.1		-25.4	-7.0
2	1111 1110	-8.750	-18.1	-0.2	-0.1	14.3	-9.6	-8.5
3	1111 1101	6.875	6.2	-0.1	0.0	24.3	6.2	-0.1
4	1111 1100	22.500	19.1	-0.0	-0.1	12.9	22.1	-3.0
5	1111 1011	38.125	34.8	-0.0	0.0	15.7	37.9	-3.1
6	1111 1010	53.750	53.4	0.1	0.1	18.6	53.8	-0.3
7	1111 1001	69.375	73.2	-0.1	-0.1	19.8	69.6	3.6
8	1111 1000	85.000	78.8	0.2	0.2	5.6	85.4	-6.6
9	1111 0111	100.625	95.5	-0.1	-0.0	16.7	101.3	-5.8
10	1111 0110	116.250	112.0	0.1	0.1	16.5	117.1	-5.1
11	1111 0101	131.875	134.1	-0.2	-0.1	22.1	132.9	1.1
12	1111 0100	147.500	150.4	-0.2	-0.2	16.3	148.8	1.6
13	1111 0011	163.125	162.6	-0.8	-0.4	12.2	164.6	-2.1
14	1111 0010	178.750	184.1	0.0	-0.1	21.5	180.5	3.6
15	1111 0001	194.375	200.8	-0.1	-0.1	16.7	196.3	4.5
16	1111 0000	210.000	210.6	-0.4	-0.0	9.8	212.1	-1.6
17	1110 1111	225.625	222.4	0.0	0.0	11.8	228.0	-5.6
18	1110 1110	241.250	236.9	-0.1	-0.2	14.5	243.8	-6.9
19	1110 1101	256.875	261.1	-0.2	-0.1	24.2	259.6	1.5
20	1110 1100	272.500	276.6	0.6	0.6	15.5	275.5	1.1
21	1110 1011	288.125	289.6	-0.1	-0.2	13.1	291.3	-1.7
22	1110 1010	303.750	308.8	-0.1	-0.0	19.1	307.2	1.6
23	1110 1001	319.375	328.0	-0.2	-0.1	19.2	323.0	5.0
24	1110 1000	335.000	341.0	-0.0	-0.1	13.1	338.8	2.2
25	1110 0111	350.625	350.1	-0.1	-0.1	9.1	354.7	-4.5

ORIGINAL PAGE IS OF POOR QUALITY

1981/11/30 15:25:20 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

HAC TEST 527

NOV 30 '81

1.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=16)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
26	1110 0110	366.250	367.0	-0.2	-0.2	16.9	370.5	-3.5
27	1110 0101	381.875	388.7	-0.1	0.0	21.7	386.3	2.4
28	1110 0100	397.500	408.6	0.1	0.1	19.9	402.2	6.5
29	1110 0011	413.125	417.0	-0.1	0.0	8.4	418.0	-1.0
30	1110 0010	428.750	436.4	-0.2	-0.0	19.3	433.8	2.5
31	1110 0001	444.375	455.1	0.1	0.1	18.7	449.7	5.4
32	1110 0000	460.000	462.9	-3.4	-0.2	7.9	465.5	-2.6
33	1101 1111	475.625	478.1	-0.1	-0.1	15.2	481.4	-3.2
34	1101 1110	491.250	491.5	0.2	0.1	13.4	497.2	-5.7
35	1101 1101	506.875	516.8	-0.1	0.0	25.3	513.0	3.8
36	1101 1100	522.500	529.4	-0.3	-0.2	12.6	528.9	0.6
37	1101 1011	538.125	545.2	-0.2	-0.0	15.8	544.7	0.5
38	1101 1010	553.750	563.4	0.0	0.0	18.2	560.5	2.9
39	1101 1001	569.375	583.3	-0.1	0.1	19.8	576.4	6.9
40	1101 1000	585.000	591.3	0.0	-0.0	8.0	592.2	-0.9
41	1101 0111	600.625	605.4	0.0	0.1	14.1	608.1	-2.7
42	1101 0110	616.250	621.4	-0.0	-0.1	16.1	623.9	-2.5
43	1101 0101	631.875	644.0	-0.1	-0.0	22.6	639.7	4.3
44	1101 0100	647.500	660.0	-0.1	-0.1	15.9	655.6	4.4
45	1101 0011	663.125	672.3	-0.0	0.1	12.3	671.4	0.8
46	1101 0010	678.750	693.2	-0.1	-0.0	20.9	687.2	5.9
47	1101 0001	694.375	709.9	-0.1	0.1	16.8	703.1	6.9
48	1101 0000	710.000	723.7	0.4	0.4	13.8	718.9	4.8
49	1100 1111	725.625	731.6	0.0	0.0	7.9	734.8	-3.1
50	1100 1110	741.250	745.4	-0.1	-0.1	13.8	750.6	-5.1
51	1100 1101	756.875	770.1	-0.0	-0.0	24.7	766.4	3.7

ORIGINAL PAGE IS OF POOR QUALITY

1981/11/30 15:25:20 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

1.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=16)

HAC TEST 527
NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
52	1100 1100	772.500	784.5	0.6	0.8	14.4	782.3	2.3
53	1100 1011	788.125	798.3	0.0	-0.1	13.8	798.1	0.2
54	1100 1010	803.750	816.9	0.1	0.1	18.6	813.9	3.0
55	1100 1001	819.375	835.9	0.1	-0.1	18.9	829.8	6.1
56	1100 1000	835.000	852.3	0.1	-0.0	16.4	845.6	6.7
57	1100 0111	850.625	858.3	-0.1	-0.0	5.9	861.5	-3.2
58	1100 0110	866.250	874.4	-0.0	0.0	16.2	877.3	-2.9
59	1100 0101	881.875	896.5	-0.2	-0.4	22.1	893.1	3.4
60	1100 0100	897.500	916.5	-0.1	0.2	20.0	909.0	7.6
61	1100 0011	913.125	924.6	-0.1	-0.1	8.1	924.8	-0.2
62	1100 0010	928.750	945.6	0.1	0.1	21.0	940.6	5.0
63	1100 0001	944.375	961.9	-0.0	-0.1	16.3	956.5	5.4
64	1100 0000	960.000	975.3	-0.6	-0.6	13.4	972.3	3.0
65	1011 1111	975.625	986.4	-0.0	0.0	11.1	988.2	-1.7
66	1011 1110	991.250	999.8	0.0	0.0	13.3	1004.0	-4.2
67	1011 1101	1006.88	1025.5	-0.0	-0.1	25.7	1019.8	5.7
68	1011 1100	1022.50	1037.1	-0.2	-0.2	11.6	1035.7	1.5
69	1011 1011	1038.13	1053.0	0.1	0.1	15.9	1051.5	1.5
70	1011 1010	1053.75	1071.6	0.1	0.0	18.5	1067.3	4.2
71	1011 1001	1069.38	1091.6	0.1	0.0	20.0	1083.2	8.4
72	1011 1000	1085.00	1095.3	0.0	-0.0	3.7	1099.0	-3.7
73	1011 0111	1100.63	1112.8	-0.0	0.0	17.5	1114.9	-2.1
74	1011 0110	1116.25	1128.8	0.1	-0.2	16.0	1130.7	-1.9
75	1011 0101	1131.88	1151.9	-0.1	-0.0	23.1	1146.5	5.3
76	1011 0100	1147.50	1166.2	0.1	0.1	14.3	1162.4	3.8
77	1011 0011	1163.13	1179.1	0.0	0.0	12.9	1178.2	0.9
78	1011 0010	1178.75	1200.6	-0.0	-0.0	21.5	1194.0	6.5

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 606

1981/11/30 15:25:20 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-B A/D THRESHOLD TEST (BAND= 3, SENSOR=16)

HAC TEST 527

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
79	1011 0001	1194.38	1217.5	0.0	-0.0	16.9	1209.9	7.6
80	1011 0000	1210.00	1229.8	0.2	0.4	12.3	1225.7	4.1
81	1010 1111	1225.63	1238.0	-0.0	-0.1	8.2	1241.6	-3.5
82	1010 1110	1241.25	1252.0	-0.1	-0.2	14.0	1257.4	-5.4
83	1010 1101	1256.88	1277.0	-0.0	0.0	25.0	1273.2	3.7
84	1010 1100	1272.50	1291.0	0.1	-0.1	14.0	1289.1	1.9
85	1010 1011	1288.13	1304.5	-0.1	-0.0	13.5	1304.9	-0.4
86	1010 1010	1303.75	1324.2	-0.3	-0.1	19.7	1320.7	3.5
87	1010 1001	1319.38	1342.6	0.1	0.1	18.3	1336.6	6.0
88	1010 1000	1335.00	1355.0	0.0	-0.0	12.4	1352.4	2.6
89	1010 0111	1350.63	1364.0	-0.0	-0.1	9.0	1368.3	-4.2
90	1010 0110	1366.25	1380.2	0.2	0.0	16.1	1384.1	-3.9
91	1010 0101	1381.88	1403.1	0.1	-0.0	22.9	1399.9	3.2
92	1010 0100	1397.50	1421.4	-0.2	-0.1	18.3	1415.8	5.6
93	1010 0011	1413.13	1430.4	-0.0	-0.1	9.0	1431.6	-1.2
94	1010 0010	1428.75	1451.6	0.0	-0.1	21.2	1447.4	4.1
95	1010 0001	1444.38	1468.3	0.1	0.0	16.8	1463.3	5.1
96	1010 0000	1460.00	1479.9	-0.0	-0.1	11.6	1479.1	0.8
97	1001 1111	1475.63	1490.6	-0.0	-0.0	10.7	1494.9	-4.3
98	1001 1110	1491.25	1503.5	0.1	-0.2	12.9	1510.8	-7.2
99	1001 1101	1506.88	1529.3	-0.0	0.0	25.8	1526.6	2.7
100	1001 1100	1522.50	1540.2	-0.1	-0.2	10.9	1542.5	-2.2
101	1001 1011	1538.13	1556.4	0.6	-0.0	16.2	1558.3	-1.9
102	1001 1010	1553.75	1575.3	-0.2	-0.5	18.8	1574.1	1.1
103	1001 1001	1569.38	1594.5	0.1	0.1	19.3	1590.0	4.6
104	1001 1000	1585.00	1601.6	-0.0	-0.1	7.1	1605.8	-4.2

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 607

1981/11/30 15:25:20 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=16)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
105	1001 0111	1600.63	1616.6	0.0	-0.0	15.0	1621.6	-5.0
106	1001 0110	1616.25	1632.1	-0.1	-0.1	15.4	1637.5	-5.4
107	1001 0101	1631.88	1654.7	0.8	1.0	22.6	1653.3	1.4
108	1001 0100	1647.50	1669.6	0.1	-0.0	14.8	1669.2	0.4
109	1001 0011	1663.13	1682.8	-0.2	-0.1	13.3	1685.0	-2.2
110	1001 0010	1678.75	1704.8	-0.1	-0.2	22.0	1700.8	4.0
111	1001 0001	1694.38	1720.6	0.0	0.0	15.8	1716.7	4.0
112	1001 0000	1710.00	1737.6	0.3	-0.1	17.0	1732.5	5.1
113	1000 1111	1725.63	1742.2	-0.1	0.0	4.6	1748.3	-6.1
114	1000 1110	1741.25	1755.2	-0.3	-0.1	12.9	1764.2	-9.0
115	1000 1101	1756.88	1780.4	0.0	0.1	25.2	1780.0	0.3
116	1000 1100	1772.50	1794.6	0.0	-0.1	14.2	1795.9	-1.3
117	1000 1011	1788.13	1808.2	-0.0	-0.0	13.6	1811.7	-3.5
118	1000 1010	1803.75	1826.7	0.0	0.2	18.5	1827.5	-0.8
119	1000 1001	1819.38	1845.8	0.2	0.1	19.1	1843.4	2.5
120	1000 1000	1835.00	1862.2	-0.3	-0.3	16.3	1859.2	3.0
121	1000 0111	1850.63	1867.7	-0.0	0.0	5.5	1875.0	-7.4
122	1000 0110	1866.25	1883.2	0.0	0.0	15.5	1890.9	-7.7
123	1000 0101	1881.88	1906.7	-1.3	-0.2	23.5	1906.7	-0.0
124	1000 0100	1897.50	1924.6	0.0	0.0	17.9	1922.6	2.1
125	1000 0011	1913.13	1933.4	0.1	0.2	8.8	1938.4	-5.0
126	1000 0010	1928.75	1955.2	-0.2	-0.2	21.7	1954.2	0.9
127	1000 0001	1944.38	1971.4	-0.1	0.0	16.3	1970.1	1.4
128	1000 0000	1960.00	1990.8	-0.6	0.0	19.3	1985.9	4.9
129	0111 1111	1975.63	1996.8	-0.0	0.0	6.0	2001.7	-5.0
130	0111 1110	1991.25	2011.9	0.0	-0.2	15.2	2017.6	-5.6

ORIGINAL PAGE IS OF POOR QUALITY

NOV 30 '81

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 608

1981/11/30 15:25:20 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=16)

HAC TEST S27

NOV 30 '81

HRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
131	0111 1101	2006.88	2036.7	-0.1	-0.2	24.8	2033.4	3.3
132	0111 1100	2022.50	2050.4	0.2	0.1	13.7	2049.3	1.1
133	0111 1011	2038.13	2063.5	0.0	-0.3	13.1	2065.1	-1.6
134	0111 1010	2053.75	2084.6	-0.3	-0.3	21.2	2080.9	3.7
135	0111 1001	2069.38	2103.0	0.1	0.3	18.3	2096.8	6.2
136	0111 1000	2085.00	2113.0	0.1	0.0	10.1	2112.6	0.4
137	0111 0111	2100.63	2123.0	0.0	0.0	9.9	2128.4	-5.5
138	0111 0110	2116.25	2140.5	-0.2	-0.2	17.5	2144.3	-3.8
139	0111 0101	2131.88	2163.3	0.0	0.0	22.8	2160.1	3.2
140	0111 0100	2147.50	2179.9	0.1	0.0	16.6	2176.0	4.0
141	0111 0011	2163.13	2189.6	-1.5	-0.1	9.7	2191.8	-2.1
142	0111 0010	2178.75	2212.3	-0.1	-0.1	22.6	2207.6	4.6
143	0111 0001	2194.38	2229.0	0.1	0.1	16.8	2223.5	5.6
144	0111 0000	2210.00	2239.3	0.0	-0.4	10.2	2239.3	-0.0
145	0110 1111	2225.63	2248.4	-0.1	-0.0	9.2	2255.1	-6.7
146	0110 1110	2241.25	2263.4	0.2	0.1	15.0	2271.0	-7.5
147	0110 1101	2256.88	2288.3	0.0	-0.0	24.9	2286.8	1.5
148	0110 1100	2272.50	2306.1	-0.1	-0.0	17.8	2302.7	3.4
149	0110 1011	2288.13	2314.9	-0.1	-0.0	8.8	2318.5	-3.6
150	0110 1010	2303.75	2336.7	0.4	0.3	21.7	2334.3	2.3
151	0110 1001	2319.38	2355.0	0.0	-0.0	18.4	2350.2	4.9
152	0110 1000	2335.00	2368.3	-0.0	-0.1	13.3	2366.0	2.3
153	0110 0111	2350.63	2374.4	0.0	-0.2	6.0	2381.8	-7.4
154	0110 0110	2366.25	2391.7	0.0	-0.2	17.3	2397.7	-6.0
155	0110 0101	2381.88	2414.7	-0.1	-0.1	23.0	2413.5	1.2
156	0110 0100	2397.50	2435.3	-0.3	-0.1	20.6	2429.4	6.0
157	0110 0011	2413.13	2440.8	0.1	0.1	5.5	2445.2	-4.3

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 609

1981/11/30 15:25:20 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=16)

HAC TEST 527

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
158	0110 0010	2428.75	2464.1	-0.0	-0.0	23.3	2461.0	3.1
159	0110 0001	2444.38	2480.3	-0.1	-0.0	16.2	2476.9	3.5
160	0110 0000	2460.00	2488.0	-0.0	-0.0	7.7	2492.7	-4.7
161	0101 1111	2475.63	2501.0	-0.1	-0.0	13.0	2508.5	-7.5
162	0101 1110	2491.25	2515.5	-0.2	-0.1	14.5	2524.4	-8.9
163	0101 1101	2506.88	2540.7	-0.0	-0.0	25.1	2540.2	0.4
164	0101 1100	2522.50	2554.9	0.0	0.1	14.2	2556.0	-1.1
165	0101 1011	2538.13	2567.6	-0.0	-0.0	12.7	2571.9	-4.3
166	0101 1010	2553.75	2588.4	-0.2	-0.2	20.8	2587.7	0.7
167	0101 1001	2569.38	2606.8	0.2	0.1	18.3	2603.6	3.2
168	0101 1000	2585.00	2613.7	-0.0	-0.1	7.0	2619.4	-5.7
169	0101 0111	2600.63	2627.1	-0.1	0.0	13.4	2635.2	-8.1
170	0101 0110	2616.25	2644.0	-0.4	0.0	16.9	2651.1	-7.1
171	0101 0101	2631.88	2667.6	0.0	-0.0	23.5	2666.9	0.7
172	0101 0100	2647.50	2684.3	0.0	-0.1	16.7	2682.7	1.6
173	0101 0011	2663.13	2693.8	-0.1	-0.1	9.4	2698.6	-4.8
174	0101 0010	2678.75	2718.1	0.2	0.1	24.3	2714.4	3.7
175	0101 0001	2694.38	2733.0	0.0	0.0	14.9	2730.3	2.7
176	0101 0000	2710.00	2747.9	-0.4	-0.4	14.9	2746.1	1.8
177	0100 1111	2725.63	2752.7	-0.0	-0.1	4.7	2761.9	-9.3
178	0100 1110	2741.25	2766.6	-0.0	-0.0	13.9	2777.8	-11.2
179	0100 1101	2756.88	2792.7	-0.1	0.0	26.1	2793.6	-0.9
180	0100 1100	2772.50	2810.9	-0.1	-0.1	18.2	2809.4	1.5
181	0100 1011	2788.13	2819.1	0.0	-0.0	8.1	2825.3	-6.2
182	0100 1010	2803.75	2840.4	0.4	0.0	21.3	2841.1	-0.8
183	0100 1001	2819.38	2858.5	-0.1	-0.2	18.1	2857.0	1.5

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 610

1981/11/30 15:25:20 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-B A/D THRESHOLD TEST (BAND= 3, SENSOR=16)

HRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
184	0100 1000	2835.00	2875.5	-0.2	-0.0	17.0	2872.8	2.7
185	0100 0111	2850.63	2878.7	-0.0	0.0	3.2	2888.6	-10.0
186	0100 0110	2866.25	2895.6	-0.0	-0.0	16.9	2904.5	-8.9
187	0100 0101	2881.88	2919.2	-0.2	-0.1	23.6	2920.3	-1.1
188	0100 0100	2897.50	2939.6	0.3	0.3	20.4	2936.1	3.5
189	0100 0011	2913.13	2945.2	-0.0	-0.1	5.6	2952.0	-6.7
190	0100 0010	2928.75	2967.8	-0.2	-0.2	22.5	2967.8	-0.1
191	0100 0001	2944.38	2984.3	-0.0	-0.0	16.5	2983.7	0.6
192	0100 0000	2960.00	3001.4	0.5	0.6	17.1	2999.5	1.9
193	0011 1111	2975.63	3007.1	-0.1	0.0	5.7	3015.3	-8.3
194	0011 1110	2991.25	3022.0	-0.1	-0.2	14.9	3031.2	-9.2
195	0011 1101	3006.38	3047.9	-0.0	-0.0	26.0	3047.0	0.9
196	0011 1100	3022.50	3060.2	0.1	-0.1	12.2	3062.8	-2.6
197	0011 1011	3038.13	3074.1	-0.0	0.0	13.9	3078.7	-4.5
198	0011 1010	3053.75	3095.5	-0.2	0.2	21.4	3094.5	1.0
199	0011 1001	3069.38	3114.2	0.6	0.0	18.6	3110.4	3.8
200	0011 1000	3085.00	3117.0	-0.1	-0.3	2.8	3126.2	-9.2
201	0011 0111	3100.63	3133.9	0.1	-0.0	16.8	3142.0	-8.2
202	0011 0110	3116.25	3150.9	0.3	0.3	17.0	3157.9	-7.0
203	0011 0101	3131.88	3175.1	-0.1	-0.1	24.2	3173.7	1.4
204	0011 0100	3147.50	3190.6	-0.2	-0.2	15.5	3189.5	1.1
205	0011 0011	3163.13	3201.1	-0.1	-0.1	10.5	3205.4	-4.2
206	0011 0010	3178.75	3225.5	0.4	-0.1	24.3	3221.2	4.3
207	0011 0001	3194.38	3240.6	-0.0	-0.0	15.1	3237.1	3.5
208	0011 0000	3210.00	3253.0	-0.3	-0.3	12.4	3252.9	0.1
209	0010 1111	3225.63	3260.3	-0.0	-0.1	7.3	3268.7	-8.4

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 611

1981/11/30 15:25:20 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=16)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
210	0010 1110	3241.25	3275.3	-0.1	-0.2	15.0	3284.6	-9.3
211	0010 1101	3256.88	3301.4	-0.4	-0.1	26.1	3300.4	1.0
212	0010 1100	3272.50	3318.2	-0.1	-0.1	16.8	3316.2	2.0
213	0010 1011	3288.13	3327.4	-0.0	0.0	9.1	3332.1	-4.7
214	0010 1010	3303.75	3349.4	-0.0	-0.2	22.1	3347.9	1.5
215	0010 1001	3319.38	3367.8	-0.1	1.2	18.3	3363.8	4.0
216	0010 1000	3335.00	3381.3	0.1	-0.0	13.6	3379.6	1.7
217	0010 0111	3350.63	3387.8	-0.5	0.0	6.5	3395.4	-7.6
218	0010 0110	3366.25	3404.9	-0.1	-0.0	17.1	3411.3	-6.3
219	0010 0101	3381.88	3427.9	0.8	1.2	23.0	3427.1	0.8
220	0010 0100	3397.50	3448.3	0.0	0.1	20.4	3442.9	5.3
221	0010 0011	3413.13	3454.9	0.0	-0.0	6.6	3458.8	-3.9
222	0010 0010	3428.75	3477.8	-0.1	2.8	22.9	3474.6	3.1
223	0010 0001	3444.38	3494.7	-0.0	0.1	17.0	3490.5	4.3
224	0010 0000	3460.00	3507.4	0.0	0.0	12.7	3506.3	1.1
225	0001 1111	3475.63	3515.9	0.0	0.0	8.5	3522.1	-6.2
226	0001 1110	3491.25	3530.3	-0.3	0.0	14.4	3538.0	-7.7
227	0001 1101	3506.88	3556.8	-0.0	-0.1	26.5	3553.8	3.0
228	0001 1100	3522.50	3569.1	0.1	0.5	12.3	3569.6	-0.5
229	0001 1011	3538.13	3583.4	-0.0	0.0	14.2	3585.5	-2.1
230	0001 1010	3553.75	3604.3	0.2	0.2	21.0	3601.3	3.0
231	0001 1001	3569.38	3623.9	1.0	1.2	19.5	3617.1	6.7
232	0001 1000	3585.00	3628.9	-0.1	-0.1	5.0	3633.0	-4.1
233	0001 0111	3600.63	3643.9	-0.4	0.0	15.0	3648.8	-4.9
234	0001 0110	3616.25	3660.4	0.1	0.2	16.4	3664.7	-4.3
235	0001 0101	3631.88	3685.4	-0.1	0.1	25.0	3680.5	4.9
236	0001 0100	3647.50	3700.9	-0.3	-0.1	15.4	3696.3	4.5

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 612
1981/11/30 15:25:20 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 3, SENSOR=16)

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
237	0001 0011	3663.13	3711.4	-0.1	-0.1	10.6	3712.2	-0.7
238	0001 0010	3678.75	3735.5	0.2	-0.1	24.0	3728.0	7.4
239	0001 0001	3694.38	3751.4	-0.2	-0.1	15.9	3743.8	7.5
240	0001 0000	3710.00	3769.6	-0.7	-0.1	18.2	3759.7	9.9
241	0000 1111	3725.63	3771.4	-0.2	-0.2	1.8	3775.5	-4.1
242	0000 1110	3741.25	3785.8	-0.1	-0.1	14.4	3791.4	-5.6
243	0000 1101	3756.88	3812.2	-0.1	-0.1	26.4	3807.2	5.0
244	0000 1100	3772.50	3829.9	-0.5	0.1	17.6	3823.0	6.8
245	0000 1011	3788.13	3838.8	-0.1	-0.0	9.0	3838.9	-0.0
246	0000 1010	3803.75	3860.6	-0.4	-0.3	21.7	3854.7	5.9
247	0000 1001	3819.38	3880.9	-0.1	-0.1	20.3	3870.5	10.3
248	0000 1000	3835.00	3895.9	-0.1	-0.1	15.0	3886.4	9.5
249	0000 0111	3850.63	3899.9	-0.3	0.1	4.0	3902.2	-2.3
250	0000 0110	3866.25	3916.1	-0.0	-0.0	16.2	3918.1	-2.0
251	0000 0101	3881.88	3941.4	-0.1	-0.0	25.3	3933.9	7.5
252	0000 0100	3897.50	3960.3	-0.0	0.0	19.0	3949.7	10.6
253	0000 0011	3913.13	3967.3	-0.1	0.1	7.0	3965.6	1.8
254	0000 0010	3928.75	3992.7	0.0	-0.1	25.4	3981.4	11.3
255	0000 0001	3944.38	4007.1	0.0	0.2	14.4	3997.2	9.9

ORIGINAL PAGE IS OF POOR QUALITY

ORIGINAL PAGE IS
OF POOR QUALITY

Appendix A

Multiplexer Performance Data

A/D THRESHOLD TEST DATA
Band 4

Section 4D

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 613
1981/11/30 15:31:49 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=1) NOV 30 81

HAC TEST 527

S U M M A R Y

CHECK 1) RMS ERROR, 2) THRESHOLD INCREMENT(+/- 0.0 <= THRH INC <= 31.2)
THE REMAINING DATA ARE FOR INFORMATION ONLY

BEST FIT STRAIGHT LINE IS: Y =15.853X -52.2MV

DEVIATION OF SLOPE FROM IDEAL IS: 1.458%
OFFSET IS:-52.2MV
COEFFICIENT OF DETERMINATION IS: R**2= .99998230
ANALOG INPUT DURING DC RESTORE IS:64.4MV

RMS ERROR = 4.855MV REQMT: RMS ERROR <=7.812MV

THRESHOLD INCREMENT MEASUREMENT

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
28.2MV	227	15.921MV	1.6MV	200	6.132MV

LOWER LIMIT AT OUTPUT LEVELS RATIO = 1 : 1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
0.8MV	112	-0.049MV	-1.8MV	239	.665MV

UPPER LIMIT AT OUTPUT LEVELS RATIO = 1 : 1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
5.6MV	148	0.008MV	-0.9MV	158	.766MV

TEST PASSED

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 614

1981/11/30 15:32:03 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=1)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
THE FOLLOWING DATA ARE FOR INFORMATION ONLY								
1	1111 1111	-24.375	-41.5	0.2	0.8		-36.3	-5.2
2	1111 1110	-8.750	-27.9	-0.0	0.7	13.6	-20.5	-7.5
3	1111 1101	6.875	-2.7	-0.8	-0.7	25.2	-4.6	1.9
4	1111 1100	22.500	11.2	-0.8	-0.7	13.9	11.2	-0.1
5	1111 1011	38.125	24.4	0.6	0.7	13.2	27.1	-2.7
6	1111 1010	53.750	40.3	0.6	0.7	15.9	42.9	-2.6
7	1111 1001	69.375	63.3	-0.7	0.1	23.0	58.8	4.5
8	1111 1000	85.000	68.7	-0.7	-0.8	5.4	74.7	-5.9
9	1111 0111	100.625	86.4	-0.1	-0.7	17.7	90.5	-4.1
10	1111 0110	116.250	102.0	0.7	0.7	15.6	106.4	-4.3
11	1111 0101	131.875	124.4	0.7	0.7	22.3	122.2	2.2
12	1111 0100	147.500	142.2	-0.7	-0.7	17.8	138.1	4.2
13	1111 0011	163.125	152.8	-0.7	-0.7	10.5	153.9	-1.1
14	1111 0010	178.750	170.4	0.6	-0.0	17.6	169.8	0.6
15	1111 0001	194.375	190.6	0.5	0.7	20.1	185.6	4.9
16	1111 0000	210.000	199.8	-0.0	0.7	9.3	201.5	-1.6
17	1110 1111	225.625	213.4	-0.8	1.9	13.6	217.3	-3.9
18	1110 1110	241.250	228.3	-0.7	-0.7	14.8	233.2	-4.9
19	1110 1101	256.875	251.7	0.6	0.7	23.4	249.0	2.6
20	1110 1100	272.500	268.8	0.6	0.7	17.1	264.9	3.9
21	1110 1011	288.125	280.2	-0.7	-0.0	11.5	280.7	-0.5
22	1110 1010	303.750	296.6	-0.7	-0.7	16.3	296.6	-0.0
23	1110 1001	319.375	318.4	-0.1	-0.6	21.8	312.4	6.0
24	1110 1000	335.000	326.8	0.7	0.7	8.4	328.3	-1.5
25	1110 0111	350.625	340.6	0.6	0.7	13.7	344.1	-3.6

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 615

1981/11/30 15:37:03 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=1)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
26	1110 0110	366.250	358.0	-0.8	-0.6	17.4	360.0	-2.0
27	1110 0101	381.875	380.0	-0.8	-0.6	21.9	375.9	4.1
28	1110 0100	397.500	399.9	0.7	0.0	19.9	391.7	8.2
29	1110 0011	413.125	407.1	0.6	0.6	7.2	407.6	-0.5
30	1110 0010	428.750	425.6	-0.1	0.6	18.5	423.4	2.2
31	1110 0001	444.375	446.1	-0.8	-0.7	20.5	439.3	6.8
32	1110 0000	460.000	447.8	-0.8	-0.7	1.7	455.1	-7.4
33	1101 1111	475.625	467.9	0.6	0.7	20.1	471.0	-3.1
34	1101 1110	491.250	482.3	0.6	0.8	14.4	486.8	-4.5
35	1101 1101	506.875	507.8	-0.8	-0.1	25.5	502.7	5.2
36	1101 1100	522.500	522.1	-0.8	-0.7	14.3	518.5	3.6
37	1101 1011	538.125	535.4	-0.0	-0.7	13.3	534.4	1.0
38	1101 1010	553.750	550.4	0.7	0.7	15.0	550.2	0.2
39	1101 1001	569.375	573.2	0.5	0.7	22.7	566.1	7.1
40	1101 1000	585.000	581.1	-0.8	-0.8	7.9	581.9	-0.9
41	1101 0111	600.625	596.3	-0.8	-0.7	15.2	597.8	-1.5
42	1101 0110	616.250	611.9	0.6	0.0	15.6	613.6	-1.8
43	1101 0101	631.875	634.3	0.7	0.7	22.4	629.5	4.8
44	1101 0100	647.500	651.8	-0.1	0.7	17.4	645.4	6.4
45	1101 0011	663.125	662.5	-0.7	-0.6	10.7	661.2	1.3
46	1101 0010	678.750	680.5	-0.7	-0.7	17.9	677.1	3.4
47	1101 0001	694.375	700.3	0.7	0.7	19.8	692.9	7.4
48	1101 0000	710.000	712.8	0.8	0.8	12.5	708.8	4.0
49	1100 1111	725.625	722.5	-0.7	0.0	9.7	724.6	-2.1
50	1100 1110	741.250	737.1	-0.7	-0.7	14.7	740.5	-3.3
51	1100 1101	756.875	761.3	-0.1	-0.6	24.2	756.3	5.0

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 616
1981/11/30 15:32:03 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.3.5-3 A/D THRESHOLD TEST (BAND= 4, SENSOR=1)

NAC RESE SET NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRATGHT LINE POINT	DEVIATION
52	1100 1100	772.500	777.7	0.7	0.8	16.4	772.2	5.6
53	1100 1011	788.125	788.3	0.6	0.7	10.6	788.0	0.3
54	1100 1010	803.750	805.0	-0.7	-0.6	16.7	803.9	1.2
55	1100 1001	819.375	827.1	-0.7	-0.7	22.1	819.7	7.4
56	1100 1000	835.000	838.7	0.7	0.0	11.5	835.6	3.1
57	1100 0111	850.625	848.8	0.6	0.6	10.1	851.4	-2.7
58	1100 0110	866.250	865.4	-0.1	0.6	16.6	867.3	-1.9
59	1100 0101	881.875	888.0	-0.7	-0.7	22.6	883.1	4.9
60	1100 0100	897.500	909.2	-0.8	-0.7	21.2	899.0	10.2
61	1100 0011	913.125	914.9	0.5	0.5	5.7	914.9	0.1
62	1100 0010	928.750	933.0	0.6	0.6	18.0	930.7	2.2
63	1100 0001	944.375	953.7	-0.6	0.0	20.7	946.6	7.1
64	1100 0000	960.000	963.8	-0.8	-0.8	10.1	962.4	1.4
65	1011 1111	975.625	975.5	0.0	-0.7	11.8	978.3	-2.7
66	1011 1110	991.250	989.1	0.8	0.8	13.6	994.1	-5.0
67	1011 1101	1006.88	1014.8	0.7	0.6	25.7	1010.0	4.8
68	1011 1100	1022.50	1028.3	-0.7	-0.7	13.4	1025.8	2.4
69	1011 1011	1038.13	1041.9	-0.7	-0.7	13.6	1041.7	0.2
70	1011 1010	1053.75	1056.9	0.6	-0.0	14.9	1057.5	-0.7
71	1011 1001	1069.38	1080.4	0.7	0.7	23.5	1073.4	7.0
72	1011 1000	1085.00	1084.1	-0.1	0.7	3.7	1089.2	-5.1
73	1011 0111	1100.63	1102.3	-0.8	-0.7	18.2	1105.1	-2.8
74	1011 0110	1116.25	1118.3	-0.7	-0.7	16.0	1120.9	-2.6
75	1011 0101	1131.88	1141.3	0.7	0.6	23.0	1136.8	4.5
76	1011 0100	1147.50	1156.8	0.7	0.7	15.4	1152.6	4.1
77	1011 0011	1163.13	1168.2	-0.8	-0.2	11.4	1168.5	-0.3
78	1011 0010	1178.75	1185.9	-0.7	-0.7	17.7	1184.3	1.5

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 617

1981/11/30 15:32:03 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=1)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
79	1011 0001	1194.38	1207.3	0.0	-0.7	21.5	1200.2	7.1
80	1011 0000	1210.00	1218.4	0.7	0.7	11.0	1216.1	2.3
81	1010 1111	1225.63	1227.1	0.7	0.7	8.7	1231.9	-4.8
82	1010 1110	1241.25	1242.3	-0.7	-0.6	15.2	1247.8	-5.4
83	1010 1101	1256.88	1267.7	-0.7	-0.8	25.4	1263.6	4.1
84	1010 1100	1272.50	1283.0	0.8	-0.0	15.3	1279.5	3.5
85	1010 1011	1288.13	1293.2	0.7	0.7	10.2	1295.3	-7.1
86	1010 1010	1303.75	1309.1	-0.0	0.6	15.9	1311.2	-2.0
87	1010 1001	1319.38	1333.0	-0.7	-0.7	23.8	1327.0	5.9
88	1010 1000	1335.00	1341.7	-0.9	-0.8	8.7	1342.9	-1.2
89	1010 0111	1350.63	1353.4	0.7	0.7	11.7	1358.7	-5.3
90	1010 0110	1366.25	1369.9	0.7	0.7	16.4	1374.6	-4.7
91	1010 0101	1381.88	1393.8	-0.7	-0.1	23.9	1390.4	3.4
92	1010 0100	1397.50	1413.2	-0.7	-0.8	19.4	1406.3	6.9
93	1010 0011	1413.13	1419.9	0.2	-0.6	6.7	1422.1	-2.2
94	1010 0010	1428.75	1437.3	0.7	0.7	17.4	1438.0	-0.7
95	1010 0001	1444.38	1458.4	0.8	0.8	21.1	1453.8	4.6
96	1010 0000	1460.00	1465.5	-0.7	-0.7	7.0	1469.7	-4.2
97	1001 1111	1475.63	1480.0	-0.6	-0.6	14.6	1485.6	-5.5
98	1001 1110	1491.25	1493.6	0.7	0.0	13.6	1501.4	-7.8
99	1001 1101	1506.88	1519.5	0.7	0.7	25.8	1517.3	2.2
100	1001 1100	1522.50	1532.5	0.1	0.8	13.1	1533.1	-0.6
101	1001 1011	1538.13	1546.2	-0.7	-0.7	13.7	1549.0	-2.7
102	1001 1010	1553.75	1561.8	-0.7	-0.7	15.6	1564.8	-3.0
103	1001 1001	1569.38	1584.8	0.7	0.7	23.0	1580.7	4.1
104	1001 1000	1585.00	1590.7	0.8	0.8	5.9	1596.5	-5.9

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27 NOV 30 '81

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 618

1981/11/30 15:32:03 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-B A/D THRESHOLD TEST (BAND= 4, SENSOR=1)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
105	1001 0111	1600.63	1606.5	-0.7	0.0	15.9	1612.4	-5.8
106	1001 0110	1616.25	1622.6	-0.7	-0.7	16.0	1628.2	-5.7
107	1001 0101	1631.88	1646.2	-0.1	-0.8	23.6	1644.1	2.1
108	1001 0100	1647.50	1665.6	0.8	0.8	15.5	1659.9	1.7
109	1001 0011	1663.13	1671.7	0.8	0.8	10.0	1675.8	-4.1
110	1001 0010	1678.75	1689.9	-0.7	-0.6	18.2	1691.6	-1.7
111	1001 0001	1694.38	1711.7	-0.7	-0.8	21.8	1707.5	4.2
112	1001 0000	1710.00	1726.0	0.8	0.0	14.2	1723.3	2.6
113	1000 1111	1725.63	1731.3	0.7	0.7	5.3	1739.2	-7.9
114	1000 1110	1741.25	1745.8	-0.1	0.6	14.5	1755.1	-9.2
115	1000 1101	1756.88	1771.8	-0.7	-0.6	26.0	1770.9	0.9
116	1000 1100	1772.50	1787.8	-0.7	-0.7	16.0	1786.8	1.1
117	1000 1011	1788.13	1797.3	0.7	0.7	9.4	1802.6	-5.3
118	1000 1010	1803.75	1813.1	0.7	0.7	15.8	1818.5	-5.4
119	1000 1001	1819.38	1837.2	-0.7	-0.1	24.1	1834.3	2.9
120	1000 1000	1835.00	1848.2	-0.8	-0.7	11.0	1850.2	-2.0
121	1000 0111	1850.63	1858.2	0.0	-0.7	10.0	1866.0	-7.8
122	1000 0110	1866.25	1873.8	0.7	0.7	15.6	1881.9	-8.0
123	1000 0101	1881.88	1897.0	0.6	0.8	23.2	1897.7	-0.7
124	1000 0100	1897.50	1918.1	-0.7	-0.6	21.1	1913.6	4.5
125	1000 0011	1913.13	1924.1	-0.7	-0.8	6.0	1929.4	-5.3
126	1000 0010	1928.75	1941.3	0.6	-0.1	17.1	1945.3	-4.0
127	1000 0001	1944.38	1962.6	0.7	0.7	21.3	1961.1	1.4
128	1000 0000	1960.00	1982.3	-0.0	0.9	19.8	1977.0	5.3
129	0111 1111	1975.63	1989.5	-0.8	-0.7	7.2	1992.8	-3.3
130	0111 1110	1991.25	2004.8	-0.7	-0.8	15.3	2008.7	-3.9

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 619

1981/11/30 15:32:03 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=1)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
131	0111 1101	2006.88	2030.0	0.7	0.7	25.1	2024.6	5.4
132	0111 1100	2022.50	2043.6	0.7	0.7	13.6	2040.4	3.2
133	0111 1011	2038.13	2055.8	-0.8	-0.1	12.1	2056.3	-0.5
134	0111 1010	2053.75	2072.2	-0.8	-0.7	16.5	2072.1	0.1
135	0111 1001	2069.38	2096.6	0.0	-0.7	24.3	2088.0	8.6
136	0111 1000	2085.00	2098.6	0.6	0.7	2.0	2103.8	-5.3
137	0111 0111	2100.63	2115.6	0.7	0.8	17.0	2119.7	-4.1
138	0111 0110	2116.25	2133.2	-0.7	-0.7	17.7	2135.5	-2.3
139	0111 0101	2131.88	2157.4	-0.7	-0.7	24.2	2151.4	6.0
140	0111 0100	2147.50	2172.7	0.8	0.0	15.3	2167.2	5.5
141	0111 0011	2163.13	2181.2	0.7	0.7	8.4	2183.1	-1.9
142	0111 0010	2178.75	2200.0	-0.1	0.6	18.9	2198.9	1.1
143	0111 0001	2194.38	2223.0	-0.8	-0.8	23.0	2214.8	8.3
144	0111 0000	2210.00	2232.1	-0.8	-0.8	9.1	2230.6	1.5
145	0110 1111	2225.63	2241.0	0.7	0.7	8.9	2246.5	-5.5
146	0110 1110	2241.25	2256.6	0.7	0.7	15.6	2262.3	-5.8
147	0110 1101	2256.88	2283.0	-0.7	-0.0	26.4	2278.2	4.8
148	0110 1100	2272.50	2293.6	-0.8	5.6	10.6	2294.0	-0.5
149	0110 1011	2288.13	2308.1	-0.0	-0.6	14.5	2309.9	-1.8
150	0110 1010	2303.75	2323.9	0.7	0.7	15.8	2325.8	-1.9
151	0110 1001	2319.38	2347.9	0.7	0.8	24.0	2341.6	6.3
152	0110 1000	2335.00	2356.3	-0.8	-0.8	8.4	2357.5	-1.2
153	0110 0111	2350.63	2368.3	-0.7	-0.8	12.0	2373.3	-5.0
154	0110 0110	2366.25	2384.9	0.7	-0.1	16.6	2389.2	-4.3
155	0110 0101	2381.88	2408.6	0.7	0.7	23.7	2405.0	3.6
156	0110 0100	2397.50	2428.3	-0.0	0.8	19.6	2420.9	7.4
157	0110 0011	2413.13	2434.0	-0.8	-0.7	5.7	2436.7	-2.8

ORIGINAL PAGE IS
OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 620

1981/11/30 15:32:03 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=1)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
158	0110 0010	2428.75	2453.0	-1.0	-0.9	19.0	2452.6	0.4
159	0110 0001	2444.38	2474.1	0.7	0.7	21.1	2468.4	5.7
160	0110 0000	2460.00	2477.8	0.8	0.8	3.7	2484.3	-6.4
161	0101 1111	2475.63	2494.2	-0.7	0.0	16.3	2500.1	-6.0
162	0101 1110	2491.25	2509.5	-0.8	-0.8	15.3	25[illegible] 0	-6.5
163	0101 1101	2506.88	2535.6	0.0	-0.7	26.1	25[illegible] 8	3.7
164	0101 1100	2522.50	2549.1	0.7	0.8	13.5	2547.7	1.4
165	0101 1011	2538.13	2560.0	0.7	0.7	10.9	2563.5	-3.5
166	0101 1010	2553.75	2576.8	-0.7	-0.7	16.8	2579.4	-2.6
167	0101 1001	2569.38	2601.4	-0.7	-0.7	24.7	2595.3	6.2
168	0101 1000	2585.00	2605.3	0.8	0.1	3.9	2611.1	-5.8
169	0101 0111	2600.63	2620.1	0.7	0.7	14.8	2627.0	-6.8
170	0101 0110	2616.25	2637.1	-0.1	0.6	17.0	2642.8	-5.7
171	0101 0101	2631.88	2662.3	-0.8	-0.7	25.2	2658.7	3.6
172	0101 0100	2647.50	2678.8	-0.9	-0.8	16.5	2674.5	4.3
173	0101 0011	2663.13	2686.1	0.7	0.7	7.3	2690.4	-4.3
174	0101 0010	2678.75	2704.4	0.7	0.8	10.3	2706.2	-1.8
175	0101 0001	2694.38	2727.9	-0.7	-0.0	23.5	2722.1	5.8
176	0101 0000	2710.00	2740.8	-0.8	-0.8	13.0	2737.9	2.9
177	0100 1111	2725.63	2746.4	0.0	-0.7	5.5	2753.8	-7.4
178	0100 1110	2741.25	2761.1	0.8	0.7	14.8	2769.6	-8.5
179	0100 1101	2756.88	2787.1	0.7	0.7	26.0	2785.5	1.6
180	0100 1100	2772.50	2805.2	-0.8	-0.7	18.1	2801.3	3.9
181	0100 1011	2788.13	2812.9	-0.8	-0.8	7.7	2817.2	-4.3
182	0100 1010	2803.75	2828.5	0.7	0.0	15.6	2833.0	-4.5
183	0100 1001	2819.38	2852.9	0.6	0.7	24.3	2848.9	4.0

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 621
1981/11/30 15:32:03 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=1)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
184	0100 1000	2835.00	2864.5	-0.0	0.8	11.6	2864.8	-0.2
185	0100 0111	2850.63	2873.1	-0.8	-0.7	8.6	2880.6	-7.5
186	0100 0110	2866.25	2890.3	-0.6	-0.7	17.1	2896.5	-6.2
187	0100 0101	2881.88	2913.7	0.7	0.7	23.4	2912.3	1.4
188	0100 0100	2897.50	2934.4	0.7	0.7	20.7	2928.2	6.2
189	0100 0011	2913.13	2939.2	-0.7	0.0	4.7	2944.0	-4.9
190	0100 0010	2928.75	2957.9	-0.8	-0.7	18.7	2959.9	-2.0
191	0100 0001	2944.38	2980.1	-0.1	-0.7	22.2	2975.7	4.4
192	0100 0000	2960.00	2993.3	0.8	0.9	13.2	2991.6	1.7
193	0011 1111	2975.63	2998.7	0.7	0.8	5.4	3007.4	-8.7
194	0011 1110	2991.25	3014.6	-0.8	-0.8	15.9	3023.3	-8.7
195	0011 1101	3006.88	3041.5	-0.8	-0.8	26.9	3039.1	2.4
196	0011 1100	3022.50	3053.7	0.8	0.0	12.1	3055.0	-1.3
197	0011 1011	3038.13	3065.6	0.7	0.7	11.9	3070.8	-5.3
198	0011 1010	3053.75	3081.7	0.0	0.8	16.1	3086.7	-5.0
199	0011 1001	3069.38	3107.8	-0.9	-0.7	26.1	3102.5	5.3
200	0011 1000	3085.00	3109.4	-0.8	-0.7	1.6	3118.4	-9.0
201	0011 0111	3100.63	3176.1	0.7	0.7	16.6	3134.2	-8.2
202	0011 0110	3116.25	3143.0	0.7	0.8	16.9	3150.1	-7.1
203	0011 0101	3131.88	3169.0	-0.7	0.0	26.0	3166.0	3.0
204	0011 0100	3147.50	3184.4	0.6	-0.8	15.4	3181.8	2.6
205	0011 0011	3163.13	3193.3	-0.2	-0.3	8.9	3197.7	-4.4
206	0011 0010	3178.75	3210.7	0.7	0.8	17.5	3213.5	-2.8
207	0011 0001	3194.38	3234.4	-0.1	0.8	23.6	3229.4	5.0
208	0011 0000	3210.00	3246.9	-0.8	-0.8	12.5	3245.2	1.7
209	0010 1111	3225.63	3253.3	-0.7	-0.7	6.3	3261.1	-7.8

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 622

1981/11/30 15:32:03 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=1)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
210	0010 1110	3241.25	3268.1	0.6	-0.1	14.8	3276.9	-8.9
211	0010 1101	3256.88	3294.8	0.6	0.7	26.7	3292.8	2.0
212	0010 1100	3272.50	3311.1	-0.0	0.9	16.4	3308.6	2.5
213	0010 1011	3288.13	3320.3	-0.8	-0.7	9.2	3324.5	-4.2
214	0010 1010	3303.75	3336.7	-0.7	-0.8	16.4	3340.3	-3.6
215	0010 1001	3319.38	3361.2	0.6	0.8	24.4	3356.2	5.0
216	0010 1000	3335.00	3368.5	0.5	0.5	7.3	3372.0	-3.5
217	0010 0111	3350.63	3381.0	-0.8	0.0	12.5	3387.9	-6.9
218	0010 0110	3366.25	3398.4	-0.8	-0.9	17.3	3403.7	-5.4
219	0010 0101	3381.88	3423.4	-0.0	-0.7	25.0	3419.6	3.8
220	0010 0100	3397.50	3441.9	0.7	0.8	18.5	3435.5	6.4
221	0010 0011	3413.13	3447.6	-0.1	0.7	5.7	3451.3	-3.7
222	0010 0010	3428.75	3466.4	-0.8	-0.7	18.8	3467.2	-0.8
223	0010 0001	3444.38	3489.7	-0.8	-0.7	23.2	3483.0	6.6
224	0010 0000	3460.00	3495.6	0.7	-0.1	5.9	3498.9	-3.3
225	0001 1111	3475.63	3507.8	0.7	0.8	12.3	3514.7	-6.9
226	0001 1110	3491.25	3523.1	-0.1	0.7	15.2	3530.6	-7.5
227	0001 1101	3506.88	3551.3	-0.8	-0.7	28.2	3546.4	4.8
228	0001 1100	3522.50	3564.8	-0.1	-0.8	13.6	3562.3	2.6
229	0001 1011	3538.13	3575.3	0.7	0.7	10.4	3578.1	-2.8
230	0001 1010	3553.75	3591.4	0.6	0.8	16.1	3594.0	-2.6
231	0001 1001	3569.38	3617.8	-0.8	0.0	26.4	3609.8	8.0
232	0001 1000	3585.00	3621.9	-0.8	-0.7	4.0	3625.7	-3.8
233	0001 0111	3600.63	3637.0	-0.0	-0.7	15.1	3641.5	-4.6
234	0001 0110	3616.25	3653.2	0.7	0.8	16.2	3657.4	-4.2
235	0001 0101	3631.88	3679.1	-0.2	0.7	25.9	3673.2	5.8
236	0001 0100	3647.50	3695.8	-0.9	-0.9	16.7	3689.1	6.7

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 623

1981/11/30 15:32:03 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=1)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
237	0001 0011	3663.13	3704.7	-0.7	-0.7	8.8	3705.0	-0.3
238	0001 0010	3678.75	3721.8	0.6	-0.1	17.1	3720.8	1.0
239	0001 0001	3694.38	3745.5	-1.8	0.8	23.7	3736.7	8.8
240	0001 0000	3710.00	3761.0	-0.1	0.9	15.5	3752.5	8.5
241	0000 1111	3725.63	3764.7	-0.8	-0.8	3.7	3768.4	-3.7
242	0000 1110	3741.25	3780.1	-0.1	-0.7	15.4	3784.2	-4.1
243	0000 1101	3756.88	3806.8	0.2	0.3	26.7	3800.1	6.8
244	0000 1100	3772.50	3823.3	0.8	0.8	16.5	3815.9	7.4
245	0000 1011	3788.13	3832.2	-0.8	0.1	8.9	3831.8	0.5
246	0000 1010	3803.75	3849.0	-0.9	-0.9	16.8	3847.6	1.4
247	0000 1001	3819.38	3874.2	-0.2	-0.7	25.2	3863.5	10.7
248	0000 1000	3835.00	3886.3	0.7	0.8	12.1	3879.3	7.0
249	0000 0111	3850.63	3892.8	-0.0	0.8	6.5	3895.2	-2.4
250	0000 0110	3866.25	3910.9	-0.9	-0.7	18.0	3911.0	-0.2
251	0000 0101	3881.88	3936.1	-0.9	-0.7	25.2	3926.9	9.2
252	0000 0100	3897.50	3956.0	0.6	0.1	20.0	3942.7	13.3
253	0000 0011	3913.13	3960.6	0.8	0.9	4.6	3958.6	2.0
254	0000 0010	3928.75	3978.9	-0.2	0.8	18.3	3974.5	4.4
255	0000 0001	3944.38	4003.1	-1.0	-0.7	24.2	3990.3	12.8

ORIGINAL PAGE IS
OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 624
1981/11/30 15:38:25 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

HAC TEST S27

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=2)

S U M M A R Y

CHECK 1) RMS ERROR, 2) THRESHOLD INCREMENT(+/- 0.0 <= THRH INC <= 31.2)
THE REMAINING DATA ARE FOR INFORMATION ONLY

BEST FIT STRAIGHT LINE IS: Y =15.861X -42.5MV

DEVIATION OF SLOPE FROM IDEAL IS: 1.511%
OFFSET IS:-42.5MV
COEFFICIENT OF DETERMINATION IS: R**2= .99998620
ANALOG INPUT DURING DC RESTORE IS:64.5MV

RMS ERROR = 4.605MV REQMT: RMS ERROR <=7.812MV

THRESHOLD INCREMENT MEASUREMENT

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
27.1MV	231	15.924MV	1.6MV	200	5.858MV

LOWER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
0.8MV	213	-0.107MV	-4.1MV	174	.756MV

UPPER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
0.8MV	218	-0.014MV	-1.0MV	86	.602MV

TEST PASSED

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 625

1981/11/30 15:38:39 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-4 A/D THRESHOLD TEST (BAND= 4, SENSOR=2)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
THE FOLLOWING DATA ARE FOR INFORMATION ONLY								
1	1111 1111	-24.375	-30.1	-0.9	-0.6		-26.7	-3.5
2	1111 1110	-8.750	-18.4	-0.8	-0.7	11.7	-10.8	-7.6
3	1111 1101	6.875	4.7	0.6	0.0	23.1	5.0	-0.3
4	1111 1100	22.500	16.8	0.6	0.6	12.0	20.9	-4.1
5	1111 1011	38.125	36.6	-0.7	0.0	19.8	36.8	-0.2
6	1111 1010	53.750	49.6	-0.7	-0.7	13.0	52.6	-3.0
7	1111 1001	69.375	72.6	-0.1	-0.6	23.1	68.5	4.2
8	1111 1000	85.000	76.4	0.6	0.7	3.8	84.3	-7.9
9	1111 0111	100.625	97.6	0.5	0.6	21.1	100.2	-2.6
10	1111 0110	116.250	112.0	-0.8	0.0	14.4	116.1	-4.0
11	1111 0101	131.875	134.2	-0.7	-0.7	22.2	131.9	2.3
12	1111 0100	147.500	148.5	0.5	-0.1	14.2	147.8	0.7
13	1111 0011	163.125	164.1	0.6	0.6	15.6	163.6	0.5
14	1111 0010	178.750	179.4	-0.1	0.7	15.2	179.5	-0.2
15	1111 0001	194.375	200.9	-0.7	-0.6	21.5	195.4	5.5
16	1111 0000	210.000	209.1	-0.7	-0.6	8.2	211.2	-2.1
17	1110 1111	225.625	225.0	0.6	0.0	15.9	227.1	-2.1
18	1110 1110	241.250	237.0	0.6	0.7	12.0	243.0	-6.0
19	1110 1101	256.875	261.2	-0.7	-0.0	24.2	258.8	2.4
20	1110 1100	272.500	276.1	-0.7	-0.6	14.8	274.7	1.4
21	1110 1011	288.125	292.3	-0.1	-0.7	16.2	290.5	1.7
22	1110 1010	303.750	304.9	0.6	0.7	12.6	306.4	-1.5
23	1110 1001	319.375	327.6	0.6	0.7	22.7	322.3	5.3
24	1110 1000	335.000	337.4	-0.8	0.0	9.8	338.1	-0.7
25	1110 0111	350.625	353.7	-0.7	-0.7	16.3	354.0	-0.3

ORIGINAL PAGE IS OF POOR QUALITY

1981/11/30 15:38:39 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=2)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
26	1110 0110	366.250	367.3	0.6	-0.1	13.6	369.8	-2.6
27	1110 0101	381.875	389.1	0.6	0.7	21.8	385.7	3.4
28	1110 0100	397.500	407.2	-0.1	0.5	18.0	401.6	5.6
29	1110 0011	413.125	420.2	-0.7	-0.7	13.1	417.4	2.8
30	1110 0010	428.750	435.9	-0.7	-0.7	15.6	433.3	2.6
31	1110 0001	444.375	455.5	0.5	0.0	19.6	449.1	6.4
32	1110 0000	460.000	461.3	0.7	0.8	5.7	465.0	-3.7
33	1101 1111	475.625	481.6	-0.7	0.0	20.3	480.9	0.7
34	1101 1110	491.250	492.9	-0.7	-0.7	11.3	496.7	-3.8
35	1101 1101	506.875	517.1	-0.1	-0.7	24.2	512.6	4.5
36	1101 1100	522.500	528.6	0.6	0.6	11.5	528.5	0.2
37	1101 1011	538.125	547.4	0.6	0.7	18.8	544.3	3.1
38	1101 1010	553.750	560.8	-0.7	-0.0	13.4	560.2	0.7
39	1101 1001	569.375	583.9	-0.7	-0.6	23.0	576.0	7.8
40	1101 1000	585.000	589.9	0.7	-0.1	6.0	591.9	-2.0
41	1101 0111	600.625	608.6	0.6	0.6	18.7	607.8	0.8
42	1101 0110	616.250	622.1	0.0	0.7	13.5	623.6	-1.6
43	1101 0101	631.875	645.1	-0.7	-0.6	23.1	639.5	5.7
44	1101 0100	647.500	660.6	-0.7	-0.7	15.4	655.3	5.2
45	1101 0011	663.125	672.2	0.6	0.0	11.7	671.2	1.0
46	1101 0010	678.750	689.7	0.6	0.7	17.4	687.1	2.6
47	1101 0001	694.375	711.2	-0.7	0.0	21.5	702.9	8.3
48	1101 0000	710.000	723.1	-0.6	-0.6	11.9	718.8	4.3
49	1100 1111	725.625	735.9	-0.0	-0.6	12.8	734.6	1.2
50	1100 1110	741.250	746.9	0.6	0.6	11.0	750.5	-3.6
51	1100 1101	756.875	770.7	0.6	0.6	23.8	766.4	4.3

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 627

1981/11/30 15:38:39 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=2)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
52	1100 1100	772.500	782.9	-0.6	-0.2	12.3	782.2	0.7
53	1100 1011	788.125	799.1	-0.6	-0.6	16.1	798.1	1.0
54	1100 1010	803.750	814.3	0.7	-0.0	15.2	814.0	0.3
55	1100 1001	819.375	836.8	0.6	0.6	22.5	829.8	7.0
56	1100 1000	835.000	848.7	0.0	0.7	11.9	845.7	3.0
57	1100 0111	850.625	862.7	-0.7	-0.6	14.0	861.5	1.2
58	1100 0110	866.250	876.7	-0.7	-0.7	13.9	877.4	-0.7
59	1100 0101	881.875	897.9	0.6	-0.0	21.3	893.3	4.7
60	1100 0100	897.500	916.2	0.6	0.6	18.3	909.1	7.1
61	1100 0011	913.125	926.1	-0.6	0.0	9.8	925.0	1.1
62	1100 0010	928.750	943.9	-0.7	-0.7	17.9	940.8	3.1
63	1100 0001	944.375	964.0	0.0	-0.6	20.0	956.7	7.3
64	1100 0000	960.000	973.3	0.6	0.7	9.3	972.6	0.7
65	1011 1111	975.625	989.3	0.7	0.7	16.0	988.4	0.8
66	1011 1110	991.250	1000.4	-0.7	-0.1	11.1	1004.3	-3.9
67	1011 1101	1006.88	1024.8	-0.7	-0.7	24.4	1020.1	4.6
68	1011 1100	1022.50	1035.8	0.6	-0.0	11.0	1036.0	-0.2
69	1011 1011	1038.13	1051.5	0.7	0.7	15.7	1051.9	-0.3
70	1011 1010	1053.75	1067.1	0.0	0.6	15.5	1067.7	-0.7
71	1011 1001	1069.38	1091.6	-0.7	-0.7	24.6	1083.6	8.0
72	1011 1000	1085.00	1094.8	-0.8	-0.7	3.2	1099.5	-4.7
73	1011 0111	1100.63	1112.1	0.7	0.0	17.3	1115.3	-3.2
74	1011 0110	1116.25	1128.4	0.7	0.6	16.2	1131.2	-2.8
75	1011 0101	1131.88	1152.0	-0.6	-0.0	23.6	1147.0	4.9
76	1011 0100	1147.50	1166.1	-0.7	-0.6	14.1	1162.9	3.2
77	1011 0011	1163.13	1179.0	0.0	-0.7	13.0	1178.8	0.3
78	1011 0010	1178.75	1195.6	0.7	0.6	16.5	1194.6	1.0

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 628
1981/11/30 15:38:39 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=2)

HRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
79	1011 0001	1194.38	1217.5	0.5	0.6	21.9	1210.5	7.0
80	1011 0000	1210.00	1228.8	-0.7	0.0	11.3	1226.3	2.5
81	1010 1111	1225.63	1242.5	-0.6	-0.6	13.6	1242.2	0.3
82	1010 1110	1241.25	1252.4	0.7	-0.1	9.9	1258.1	-5.7
83	1010 1101	1256.88	1276.5	0.7	0.6	24.1	1273.9	2.6
84	1010 1100	1272.50	1286.2	0.0	0.6	9.7	1289.8	-3.6
85	1010 1011	1288.13	1304.4	-0.6	-0.6	18.2	1305.6	-1.2
86	1010 1010	1303.75	1320.3	-0.9	-1.0	15.8	1321.5	-1.2
87	1010 1001	1319.38	1343.1	0.7	0.0	22.8	1337.4	5.8
88	1010 1000	1335.00	1351.0	0.8	0.8	7.9	1353.2	-2.2
89	1010 0111	1350.63	1364.9	-0.6	0.0	13.9	1369.1	-4.2
90	1010 0110	1366.25	1381.5	-0.6	-0.7	16.6	1384.9	-3.4
91	1010 0101	1381.88	1404.2	-0.0	-0.7	22.7	1400.8	3.4
92	1010 0100	1397.50	1420.8	0.6	0.6	16.6	1416.7	4.2
93	1010 0011	1413.13	1430.4	0.7	0.6	9.5	1432.5	-2.2
94	1010 0010	1428.75	1448.7	-0.7	-0.0	18.3	1448.4	0.3
95	1010 0001	1444.38	1469.9	-0.6	-0.6	21.3	1464.3	5.7
96	1010 0000	1460.00	1478.4	0.7	0.0	8.4	1480.1	-1.7
97	1001 1111	1475.63	1494.4	-3.4	0.7	16.0	1496.0	-1.6
98	1001 1110	1491.25	1504.4	0.0	0.7	10.0	1511.8	-7.4
99	1001 1101	1506.88	1529.6	-0.6	-0.6	25.1	1527.7	1.9
100	1001 1100	1522.50	1536.7	-0.6	-0.6	7.1	1543.6	-6.9
101	1001 1011	1538.13	1556.3	0.6	-0.0	19.6	1559.4	-3.1
102	1001 1010	1553.75	1571.6	0.7	0.6	15.3	1575.0	-3.7
103	1001 1001	1569.38	1596.2	-0.6	0.1	24.7	1591.1	5.1
104	1001 1000	1585.00	1601.8	-0.7	-0.7	5.6	1607.0	-5.2

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 629

1981/11/30 15:38:39 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-B A/D THRESHOLD TEST (BAND= 4, SENSOR=2)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
105	1001 0111	1600.63	1617.5	0.0	-0.6	15.7	1622.9	-5.4
106	1001 0110	1616.25	1632.9	0.7	0.8	15.4	1638.7	-5.9
107	1001 0101	1631.88	1656.0	0.7	0.7	23.1	1654.6	1.4
108	1001 0100	1647.50	1671.5	-0.7	-0.1	15.5	1670.4	1.0
109	1001 0011	1663.13	1683.5	-0.7	-0.7	12.0	1686.3	-2.8
110	1001 0010	1678.75	1700.1	0.7	-0.0	16.5	1702.2	-2.1
111	1001 0001	1694.38	1721.7	0.6	0.6	21.6	1718.0	3.7
112	1001 0000	1710.00	1736.7	-0.1	0.6	14.9	1733.9	2.8
113	1000 1111	1725.63	1747.1	-0.6	-0.6	10.5	1749.8	-2.6
114	1000 1110	1741.25	1757.6	-0.7	-0.7	10.4	1765.6	-8.1
115	1000 1101	1756.88	1781.1	0.7	0.0	23.5	1781.5	-0.4
116	1000 1100	1772.50	1791.2	0.7	0.7	10.1	1797.3	-6.1
117	1000 1011	1788.13	1808.9	-0.7	0.0	17.7	1813.2	-4.3
118	1000 1010	1803.75	1824.9	-0.6	-0.6	16.0	1829.1	-4.1
119	1000 1001	1819.38	1847.8	-0.0	-0.6	22.9	1844.9	2.9
120	1000 1000	1835.00	1858.2	0.8	0.6	10.4	1860.8	-2.6
121	1000 0111	1850.63	1868.9	0.7	0.7	10.7	1876.6	-7.8
122	1000 0110	1866.25	1885.8	-0.7	0.0	16.9	1892.5	-6.7
123	1000 0101	1881.88	1908.7	-0.7	-0.7	22.8	1908.4	0.3
124	1000 0100	1897.50	1926.5	-0.1	-0.8	17.8	1924.2	2.3
125	1000 0011	1913.13	1934.6	0.6	0.6	8.1	1940.1	-5.4
126	1000 0010	1928.75	1952.3	-0.0	0.6	17.7	1955.9	-3.6
127	1000 0001	1944.38	1974.0	-0.6	-0.6	21.6	1971.8	2.2
128	1000 0000	1960.00	1990.9	-0.7	-0.7	16.9	1987.7	3.2
129	0111 1111	1975.63	2001.3	-0.6	0.1	10.4	2003.5	-2.2
130	0111 1110	1991.25	2015.4	0.7	0.7	14.1	2019.4	-4.0

ORIGINAL PAGE IS
OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 630

1981/11/30 15:38:39 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-B A/D THRESHOLD TEST (BAND= 4, SENSOR=2)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
131	0111 1101	2006.88	2040.0	-0.1	0.6	24.6	2035.3	4.7
132	0111 1100	2022.50	2046.7	-0.7	-0.7	6.7	2051.1	-4.5
133	0111 1011	2038.13	2066.9	-0.1	-0.7	20.3	2067.0	-0.0
134	0111 1010	2053.75	2082.4	0.6	0.6	15.4	2082.8	-0.5
135	0111 1001	2069.38	2106.8	0.6	0.6	24.5	2098.7	8.1
136	0111 1000	2085.00	2109.8	-0.8	0.0	2.9	2114.6	-4.8
137	0111 0111	2100.63	2127.4	-0.7	-0.7	17.6	2130.4	-3.0
138	0111 0110	2116.25	2144.6	-0.1	-0.8	17.2	2146.3	-1.6
139	0111 0101	2131.88	2167.0	0.7	0.7	22.4	2162.1	4.9
140	0111 0100	2147.50	2182.6	0.1	0.6	15.6	2178.0	4.6
141	0111 0011	2163.13	2193.7	-0.7	-0.7	11.1	2193.9	-0.1
142	0111 0010	2178.75	2215.0	-0.7	-0.7	21.3	2209.7	5.3
143	0111 0001	2194.38	2232.8	0.7	0.4	17.8	2225.6	7.2
144	0111 0000	2210.00	2235.2	0.7	0.7	2.4	2241.4	-6.2
145	0110 1111	2225.63	2252.5	0.0	0.6	17.2	2257.3	-4.9
146	0110 1110	2241.25	2268.8	-0.6	-0.7	16.3	2273.2	-4.4
147	0110 1101	2256.88	2293.1	0.0	-0.7	24.3	2289.0	4.1
148	0110 1100	2272.50	2301.7	0.7	0.7	8.6	2304.9	-3.2
149	0110 1011	2288.13	2318.4	0.7	0.7	16.7	2320.8	-2.3
150	0110 1010	2303.75	2338.0	-0.6	0.1	19.6	2336.6	1.4
151	0110 1001	2319.38	2359.9	-0.6	-0.7	21.9	2352.5	7.4
152	0110 1000	2335.00	2366.0	-0.0	-0.7	6.1	2368.3	-2.3
153	0110 0111	2350.63	2379.0	0.6	0.6	13.0	2384.2	-5.2
154	0110 0110	2366.25	2396.5	0.0	0.7	17.5	2400.1	-3.5
155	0110 0101	2381.88	2420.2	-0.7	-0.7	23.7	2415.9	4.3
156	0110 0100	2397.50	2438.1	-0.6	-0.6	17.9	2431.8	6.3
157	0110 0011	2413.13	2445.2	0.8	0.0	7.1	2447.6	-2.5

HAC TEST 527

ORIGINAL PAGE IS OF POOR QUALITY

1981/11/30 15:38:39 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=2)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
158	0110 0010	2428.75	2468.0	-3.5	0.7	22.8	2463.5	4.5
159	0110 0001	2444.38	2485.8	0.1	0.7	17.7	2479.4	6.4
160	0110 0000	2460.00	2492.6	-0.7	-0.8	6.8	2495.2	-2.6
161	0101 1111	2475.63	2505.9	-0.0	-0.7	13.3	2511.1	-5.2
162	0101 1110	2491.25	2520.5	0.7	0.7	14.6	2526.9	-6.4
163	0101 1101	2506.88	2545.3	0.6	0.7	24.7	2542.8	2.4
164	0101 1100	2522.50	2552.0	-0.6	-0.0	6.7	2558.7	-6.7
165	0101 1011	2538.13	2571.8	-0.7	-0.7	19.8	2574.5	-2.7
166	0101 1010	2553.75	2587.7	-0.1	-0.6	15.9	2590.4	-2.7
167	0101 1001	2569.38	2612.0	0.7	0.6	24.3	2606.3	5.8
168	0101 1000	2585.00	2616.4	0.0	0.8	4.4	2622.1	-5.7
169	0101 0111	2600.63	2632.5	-0.7	-0.6	16.1	2638.0	-5.5
170	0101 0110	2616.25	2649.7	-0.8	-0.8	17.2	2653.8	-4.1
171	0101 0101	2631.88	2672.4	0.6	-0.0	22.7	2669.7	2.7
172	0101 0100	2647.50	2688.1	0.7	0.6	15.6	2685.6	2.5
173	0101 0011	2663.13	2698.0	0.0	0.7	9.9	2701.4	-3.5
174	0101 0010	2678.75	2720.3	-4.1	-0.7	22.3	2717.3	3.0
175	0101 0001	2694.38	2739.4	-0.0	-0.7	19.1	2733.1	6.3
176	0101 0000	2710.00	2750.9	0.6	0.6	11.5	2749.0	1.9
177	0100 1111	2725.63	2757.7	0.7	0.7	6.8	2764.9	-7.1
178	0100 1110	2741.25	2773.9	-0.8	-0.0	16.2	2780.7	-6.8
179	0100 1101	2756.88	2798.5	-0.8	-0.7	24.6	2796.6	1.9
180	0100 1100	2772.50	2808.3	-0.1	-0.8	9.8	2812.4	-4.1
181	0100 1011	2788.13	2823.6	0.6	0.7	15.2	2828.3	-4.7
182	0100 1010	2803.75	2840.3	-0.0	0.8	16.7	2844.2	-3.9
183	0100 1001	2819.38	2865.3	-0.7	-0.7	24.9	2860.0	5.2

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 632

1981/11/30 15:38:39 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

HAC TEST 527

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=2)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
184	0100 1000	2835.00	2874.6	-0.7	-0.7	9.3	2875.9	-1.3
185	0100 0111	2850.63	2884.4	0.6	-0.0	9.8	2891.8	-7.4
186	0100 0110	2866.25	2901.8	0.6	0.6	17.4	2907.6	-5.8
187	0100 0101	2881.88	2925.1	0.0	0.7	23.3	2923.5	1.6
188	0100 0100	2897.50	2944.2	-0.6	-0.6	19.1	2939.3	4.9
189	0100 0011	2913.13	2951.2	-0.0	-0.7	7.0	2955.2	-4.0
190	0100 0010	2928.75	2973.6	-3.7	0.7	22.4	2971.1	2.6
191	0100 0001	2944.38	2991.2	0.6	0.7	17.5	2986.9	4.2
192	0100 0000	2960.00	3006.1	-0.8	-0.1	14.9	3002.8	3.3
193	0011 1111	2975.63	3011.6	-0.7	-0.8	5.5	3018.6	-7.1
194	0011 1110	2991.25	3026.8	-0.0	-0.8	15.2	3034.5	-7.7
195	0011 1101	3006.88	3051.4	0.7	0.7	24.6	3050.4	1.0
196	0011 1100	3022.50	3056.1	0.0	0.7	4.7	3066.2	-10.2
197	0011 1011	3038.13	3077.8	-0.7	-0.7	21.7	3082.1	-4.3
198	0011 1010	3053.75	3093.1	-0.7	-0.6	15.2	3097.9	-4.9
199	0011 1001	3069.38	3118.5	0.6	0.0	25.5	3113.8	4.7
200	0011 1000	3085.00	3120.2	0.7	0.8	1.6	3129.7	-9.5
201	0011 0111	3100.63	3138.2	0.0	0.7	18.0	3145.9	-7.3
202	0011 0110	3116.25	3155.9	-0.7	-0.7	17.7	3161.4	-5.5
203	0011 0101	3131.88	3180.2	-0.1	-0.7	24.3	3177.3	2.9
204	0011 0100	3147.50	3194.6	0.6	0.6	14.4	3193.1	1.4
205	0011 0011	3163.13	3204.8	0.7	0.7	10.2	3209.0	-4.2
206	0011 0010	3178.75	3223.7	-0.7	0.1	18.9	3224.8	-1.2
207	0011 0001	3194.38	3247.2	-0.7	-0.7	23.5	3240.7	6.5
208	0011 0000	3210.00	3257.6	-0.3	-0.5	10.4	3256.6	1.0
209	0010 1111	3225.63	3265.0	0.7	0.7	7.4	3272.4	-7.4

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 633

1981/11/30 15:38:39 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=2)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
210	0010 1110	3241.25	3280.5	-0.1	0.7	15.4	3288.3	-7.8
211	0010 1101	3256.88	3306.5	-0.8	-0.7	26.0	3304.1	2.3
212	0010 1100	3272.50	3314.6	-0.7	-0.6	8.1	3320.0	-5.4
213	0010 1011	3288.13	3331.3	0.8	0.0	16.7	3335.9	-4.5
214	0010 1010	3303.75	3347.9	0.6	0.8	16.6	3351.7	-3.8
215	0010 1001	3319.38	3373.2	-0.1	0.6	25.3	3367.6	5.7
216	0010 1000	3335.00	3379.6	-0.8	-0.8	6.4	3383.4	-3.8
217	0010 0111	3350.63	3393.4	-0.6	-0.6	13.8	3399.3	-5.9
218	0010 0110	3366.25	3410.1	0.7	0.8	16.7	3415.2	-5.1
219	0010 0101	3381.88	3434.3	0.6	0.7	24.2	3431.0	3.3
220	0010 0100	3397.50	3453.2	-0.9	-0.1	18.9	3446.9	6.3
221	0010 0011	3413.13	3460.2	-0.7	-0.7	7.0	3462.8	-2.5
222	0010 0010	3428.75	3480.7	0.0	-0.5	20.5	3478.6	2.1
223	0010 0001	3444.38	3500.9	0.7	0.8	20.2	3494.5	6.4
224	0010 0000	3460.00	3512.1	0.7	0.8	11.2	3510.3	1.8
225	0001 1111	3475.63	3521.4	-0.7	-0.7	9.3	3526.2	-4.8
226	0001 1110	3491.25	3536.5	-0.8	-0.8	15.1	3542.1	-5.5
227	0001 1101	3506.88	3561.5	0.6	0.0	25.0	3557.9	3.6
228	0001 1100	3522.50	3566.5	0.7	0.7	5.0	3573.8	-7.3
229	0001 1011	3538.13	3587.3	-0.1	0.7	20.8	3589.6	-2.3
230	0001 1010	3553.75	3603.2	-0.7	-0.6	15.9	3605.5	-2.3
231	0001 1001	3569.38	3630.3	-0.8	-0.6	27.1	3621.4	9.0
232	0001 1000	3585.00	3633.2	0.7	0.8	2.8	3637.2	-4.1
233	0001 0111	3600.63	3649.0	0.6	0.7	15.8	3653.1	-4.1
234	0001 0110	3616.25	3666.8	-0.8	-0.0	17.8	3668.9	-2.1
235	0001 0101	3631.88	3691.5	-0.8	-0.7	24.7	3684.8	6.7
236	0001 0100	3647.50	3706.5	-0.1	-0.6	15.0	3700.7	5.8

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 634

1981/11/30 15:38:39 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=2)

HAC TEST S21 NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
237	0001 0011	3663.13	3716.0	0.6	0.7	9.5	3716.5	-0.6
238	0001 0010	3678.75	3735.3	0.7	0.6	19.3	3732.4	2.9
239	0001 0001	3694.38	3758.2	-0.8	-0.7	22.9	3748.3	10.0
240	0001 0000	3710.00	3773.9	-0.8	-0.8	15.6	3764.1	9.8
241	0000 1111	3725.63	3777.0	0.7	0.0	3.2	3780.0	-2.9
242	0000 1110	3741.25	3792.5	0.6	0.7	15.4	3795.8	-3.3
243	0000 1101	3756.88	3818.1	-0.2	0.7	25.6	3811.7	6.4
244	0000 1100	3772.50	3827.7	-0.7	-0.7	9.5	3827.6	0.1
245	0000 1011	3788.13	3844.6	-0.7	-0.6	16.9	3843.4	1.1
246	0000 1010	3803.75	3860.6	0.6	0.7	16.0	3859.3	1.3
247	0000 1001	3819.38	3886.5	0.5	0.7	26.0	3875.1	11.4
248	0000 1000	3835.00	3896.4	-0.9	0.1	9.8	3891.0	5.4
249	0000 0111	3850.63	3906.5	-0.7	-0.7	10.1	3906.9	-0.3
250	0000 0110	3866.25	3923.9	-0.2	-0.8	17.4	3922.7	1.2
251	0000 0101	3881.88	3947.9	0.5	0.6	23.9	3938.6	9.3
252	0000 0100	3897.50	3965.9	0.6	0.7	18.0	3954.4	11.4
253	0000 0011	3913.13	3973.7	-0.7	-0.7	7.8	3970.3	3.3
254	0000 0010	3928.75	3992.4	-0.8	-0.8	18.7	3986.2	6.2
255	0000 0001	3944.38	4014.5	0.5	0.0	22.1	4002.0	12.5

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 635
1981/11/30 15:45:01 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=3)

S U M M A R Y

CHECK 1) RMS ERROR, 2) THRESHOLD INCREMENT(+/- 0.0 <= THRH INC <= 31.2)
THE REMAINING DATA ARE FOR INFORMATION ONLY

BEST FIT STRAIGHT LINE IS: Y =15.852X -44.0MV

DEVIATION OF SLOPE FROM IDEAL IS: 1.453%
OFFSET IS:-44.0MV
COEFFICIENT OF DETERMINATION IS: R**2= .99998410
ANALOG INPUT DURING DC RESTORE IS:64.4MV

RMS ERROR = 4.647MV REQMT: RMS ERROR <=7.812MV

THRESHOLD INCREMENT MEASUREMENT

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
26.6MV	227	15.914MV	1.7MV	136	5.746MV

LOWER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
0.6MV	202	-0.073MV	-7.2MV	228	.562MV

UPPER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
3.1MV	253	0.002MV	-0.6MV	14	.308MV

TEST PASSED

ORIGINAL PAGE IS
OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 636

1981/11/30 15:45:15 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-B A/D THRESHOLD TEST (BAND= 4, SENSOR=3)

HAC TEST S27 NOV 30 '81

HRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
THE FOLLOWING DATA ARE FOR INFORMATION ONLY								
1	1111 1111	-24.375	-30.9	-0.1	0.3		-28.1	-2.7
2	1111 1110	-8.750	-18.6	0.4	0.5	12.2	-12.3	-6.3
3	1111 1101	6.875	5.6	-0.4	-0.3	24.2	3.6	2.1
4	1111 1100	22.500	18.0	-0.2	-0.2	12.4	19.4	-1.4
5	1111 1011	38.125	35.3	0.4	-0.4	17.3	35.3	0.1
6	1111 1010	53.750	49.1	0.5	0.5	13.8	51.1	-2.0
7	1111 1001	69.375	71.5	-0.0	0.4	22.4	67.0	4.5
8	1111 1000	85.000	76.7	-0.4	-0.3	5.2	82.8	-6.1
9	1111 0111	100.625	97.5	-0.3	-0.3	20.7	98.7	-1.2
10	1111 0110	116.250	111.3	0.4	0.4	13.9	114.5	-3.2
11	1111 0101	131.875	133.3	0.3	0.3	21.9	130.4	2.9
12	1111 0100	147.500	149.2	-0.2	-0.1	15.9	146.2	3.0
13	1111 0011	163.125	161.7	-0.5	-0.5	12.5	162.1	-0.4
14	1111 0010	178.750	179.9	-0.1	-0.6	18.1	177.9	1.9
15	1111 0001	194.375	199.4	0.2	0.3	19.5	193.8	5.6
16	1111 0000	210.000	208.3	0.3	0.3	8.9	209.6	-1.4
17	1110 1111	225.625	224.4	-0.3	-0.3	16.1	225.5	-1.1
18	1110 1110	241.250	237.2	-0.5	-0.5	12.8	241.3	-4.2
19	1110 1101	256.875	260.3	0.2	0.0	23.2	257.2	3.2
20	1110 1100	272.500	275.5	0.1	0.2	15.1	273.0	2.5
21	1110 1011	288.125	288.5	-0.0	0.1	13.0	288.9	-0.4
22	1110 1010	303.750	305.0	-0.5	-0.5	16.5	304.7	0.3
23	1110 1001	319.375	326.7	-0.3	-0.3	21.7	320.6	6.1
24	1110 1000	335.000	336.0	0.1	0.2	9.2	336.5	-0.5
25	1110 0111	350.625	352.0	0.2	0.2	16.1	352.3	-0.3

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 637

1981/11/30 15:45:15 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=3)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
26	1110 0110	366.250	366.9	-0.4	0.0	14.9	368.2	-1.2
27	1110 0101	381.875	388.4	-0.4	-0.4	21.5	384.0	4.4
28	1110 0100	397.500	407.1	0.0	-0.2	18.7	399.9	7.2
29	1110 0011	413.125	416.1	0.3	0.3	9.0	415.7	0.4
30	1110 0010	428.750	434.5	0.4	0.4	18.4	431.6	2.9
31	1110 0001	444.375	454.3	-0.3	-0.3	19.8	447.4	6.9
32	1110 0000	460.000	459.0	-0.4	-0.3	4.6	463.3	-4.3
33	1101 1111	475.625	479.4	0.2	-0.0	20.4	479.1	0.3
34	1101 1110	491.250	491.3	0.4	0.4	11.9	495.0	-3.6
35	1101 1101	506.875	515.5	-0.0	0.3	24.1	510.8	4.7
36	1101 1100	522.500	528.2	-0.2	-0.2	12.7	526.7	1.5
37	1101 1011	538.125	543.3	-0.1	-0.1	15.1	542.5	0.8
38	1101 1010	553.750	558.9	0.3	0.4	15.6	558.4	0.6
39	1101 1001	569.375	581.6	0.2	0.3	22.6	574.2	7.3
40	1101 1000	585.000	588.6	-0.3	0.1	7.1	590.1	-1.4
41	1101 0111	600.625	604.3	-0.3	-0.2	15.6	605.9	-1.7
42	1101 0110	616.250	621.2	0.0	-0.4	16.9	621.8	-0.6
43	1101 0101	631.875	642.8	0.2	0.3	21.7	637.6	5.2
44	1101 0100	647.500	659.1	0.0	0.0	16.3	653.5	5.6
45	1101 0011	663.125	670.9	-0.2	-0.1	11.7	669.3	1.5
46	1101 0010	678.750	689.0	-0.5	-0.5	18.1	685.2	3.8
47	1101 0001	694.375	708.7	0.2	-0.1	19.8	701.0	7.7
48	1101 0000	710.000	720.8	0.2	0.3	12.1	716.9	3.9
49	1100 1111	725.625	733.2	0.0	0.2	12.3	732.8	0.4
50	1100 1110	741.250	745.9	-0.5	-0.4	12.7	748.6	-2.7
51	1100 1101	756.875	769.4	-0.3	-0.2	23.4	764.5	4.9

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 638

1981/11/30 15:45:15 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=3)

HAC TEST 527 NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
52	1100 1100	772.500	781.5	0.2	0.2	12.1	780.3	1.2
53	1100 1011	788.125	796.6	0.1	0.2	15.1	796.2	0.5
54	1100 1010	803.750	813.2	-0.5	-0.1	16.6	812.0	1.2
55	1100 1001	819.375	835.0	-0.2	-0.2	21.7	827.9	7.1
56	1100 1000	835.000	846.9	0.0	-0.3	11.9	843.7	3.2
57	1100 0111	850.625	857.2	0.2	0.2	10.3	859.6	-2.4
58	1100 0110	866.250	874.2	0.3	0.4	17.0	875.4	-1.2
59	1100 0101	881.875	895.9	-0.2	-0.2	21.7	891.3	4.7
60	1100 0100	897.500	915.0	-0.2	-0.2	19.1	907.1	7.9
61	1100 0011	913.125	923.5	0.0	-0.0	8.5	923.0	0.5
62	1100 0010	928.750	941.5	0.5	0.5	18.0	938.8	2.7
63	1100 0001	944.375	961.3	0.0	0.2	19.7	954.7	6.6
64	1100 0000	960.000	971.5	-0.3	-0.2	10.2	970.5	1.0
65	1011 1111	975.625	983.2	-0.2	-0.3	11.7	986.4	-3.2
66	1011 1110	991.250	997.8	0.4	0.4	14.6	1002.2	-4.4
67	1011 1101	1006.88	1022.7	0.2	0.2	24.9	1018.1	4.6
68	1011 1100	1022.50	1034.8	-0.2	-0.1	12.1	1033.9	0.8
69	1011 1011	1038.13	1049.5	-0.1	-0.2	14.7	1049.8	-0.3
70	1011 1010	1053.75	1065.0	0.0	-0.3	15.5	1065.6	-0.6
71	1011 1001	1069.38	1088.7	0.2	0.2	23.7	1081.5	7.2
72	1011 1000	1085.00	1091.8	0.3	0.3	3.1	1097.4	-5.6
73	1011 0111	1100.63	1109.9	-0.1	-0.1	18.1	1113.2	-3.3
74	1011 0110	1116.25	1126.7	-0.4	-0.5	16.8	1129.1	-2.3
75	1011 0101	1131.88	1149.6	0.2	-0.1	22.9	1144.9	4.7
76	1011 0100	1147.50	1164.2	0.1	0.1	14.6	1160.8	3.5
77	1011 0011	1163.13	1176.0	0.1	0.1	11.8	1176.6	-0.6
78	1011 0010	1178.75	1194.0	-0.4	-0.4	18.0	1192.5	1.6

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 639

1981/11/30 15:45:15 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-4 A/D THRESHOLD TEST (BAND= 4, SENSOR=3

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
79	1011 0001	1194.38	1215.3	-0.3	-0.3	21.2	1208.3	7.0
80	1011 0000	1210.00	1221.6	0.3	0.3	6.3	1224.2	-2.5
81	1010 1111	1225.63	1235.3	0.2	0.2	13.7	1240.0	-4.7
82	1010 1110	1241.25	1250.9	-0.4	-0.0	15.6	1255.9	-5.0
83	1010 1101	1256.88	1275.2	-0.2	-0.2	24.3	1271.7	3.5
84	1010 1100	1272.50	1285.2	0.1	-0.2	9.9	1287.6	-2.4
85	1010 1011	1288.13	1301.4	0.2	0.1	16.3	1303.4	-2.0
86	1010 1010	1303.75	1317.4	0.2	0.2	15.9	1319.3	-1.9
87	1010 1001	1319.38	1340.9	-0.3	-0.3	23.6	1335.1	5.8
88	1010 1000	1335.00	1349.1	-0.5	-0.6	8.1	1351.0	-1.9
89	1010 0111	1350.63	1361.8	0.2	-0.0	12.8	1366.8	-5.0
90	1010 0110	1366.25	1378.7	0.3	0.3	16.8	1382.7	-4.0
91	1010 0101	1381.88	1401.5	0.0	0.3	22.8	1398.5	2.9
92	1010 0100	1397.50	1419.3	0.1	0.1	17.9	1414.4	5.0
93	1010 0011	1413.13	1428.1	-0.0	-0.1	8.8	1430.2	-2.1
94	1010 0010	1428.75	1446.0	0.4	0.4	17.9	1446.1	-0.1
95	1010 0001	1444.38	1466.9	0.2	0.2	20.9	1461.9	4.9
96	1010 0000	1460.00	1473.6	-0.2	-0.0	6.7	1477.8	-4.2
97	1001 1111	1475.63	1488.0	-0.3	-0.2	14.4	1493.7	-5.7
98	1001 1110	1491.25	1502.8	-0.0	-0.4	14.8	1509.5	-6.7
99	1001 1101	1506.88	1527.4	0.3	0.2	24.6	1525.4	2.1
100	1001 1100	1522.50	1534.4	0.2	0.2	7.0	1541.2	-6.8
101	1001 1011	1538.13	1553.9	-0.2	-0.1	19.5	1557.1	-3.1
102	1001 1010	1553.75	1569.2	-0.2	-0.1	15.3	1572.9	-3.7
103	1001 1001	1569.38	1593.0	0.3	0.0	23.8	1588.8	4.2
104	1001 1000	1585.00	1598.6	0.2	0.3	5.6	1604.6	-6.0

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 640

1981/11/30 15:45:15 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-4 A/D THRESHOLD TEST (BAND= 4, SENSOR=3)

HAC TEST S27

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
105	1001 0111	1600.63	1614.3	0.0	0.2	15.6	1620.5	-6.2
106	1001 0110	1616.25	1631.2	-0.5	-0.4	17.0	1636.3	-5.1
107	1001 0101	1631.88	1654.2	-0.4	-0.3	23.0	1652.2	2.0
108	1001 0100	1647.50	1669.2	0.1	-0.0	15.0	1668.0	1.2
109	1001 0011	1663.13	1680.4	0.0	0.1	11.2	1683.9	-3.5
110	1001 0010	1678.75	1698.2	-0.4	-0.1	17.8	1699.7	-1.5
111	1001 0001	1694.38	1719.5	-0.2	-0.2	21.2	1715.6	3.9
112	1001 0000	1710.00	1734.1	0.1	-0.2	14.6	1731.4	2.7
113	1000 1111	1725.63	1739.8	0.2	0.3	5.7	1747.3	-7.5
114	1000 1110	1741.25	1754.7	0.4	0.3	15.0	1763.1	-8.4
115	1000 1101	1756.88	1779.6	-0.2	-0.2	24.8	1779.0	0.6
116	1000 1100	1772.50	1790.1	-0.2	-0.2	10.5	1794.8	-4.8
117	1000 1011	1788.13	1805.7	0.0	-0.0	15.6	1810.7	-5.0
118	1000 1010	1803.75	1821.5	0.1	0.1	15.8	1826.5	-5.1
119	1000 1001	1819.38	1844.8	0.0	0.2	23.3	1842.4	2.4
120	1000 1000	1835.00	1855.7	-0.2	-0.2	10.9	1858.3	-2.6
121	1000 0111	1850.63	1866.3	-0.2	-0.2	10.6	1874.1	-7.9
122	1000 0110	1866.25	1882.9	0.4	0.3	16.6	1890.0	-7.1
123	1000 0101	1881.88	1905.3	0.2	0.2	22.4	1905.8	-0.5
124	1000 0100	1897.50	1924.1	-0.1	0.1	18.7	1921.7	2.4
125	1000 0011	1913.13	1932.2	-0.1	-0.1	8.1	1937.5	-5.3
126	1000 0010	1928.75	1950.4	0.0	-0.5	18.3	1953.4	-2.9
127	1000 0001	1944.38	1970.9	0.1	0.2	20.5	1969.2	1.7
128	1000 0000	1960.00	1987.4	0.2	0.2	16.5	1985.1	2.4
129	0111 1111	1975.63	1997.3	-0.2	-0.2	9.8	2000.9	-3.6
130	0111 1110	1991.25	2013.4	-0.4	-0.5	16.1	2016.8	-3.4

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 641

1981/11/30 15:45:15 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.4.5-B A/D THRESHOLD TEST (BAND== 4 , SENSOR==3) 10/30/81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
131	0111 1101	2006.88	2037.9	0.2	-0.0	24.4	2032.6	5.2
132	0111 1100	2022.50	2044.3	0.2	0.2	6.5	2048.5	-4.1
133	0111 1011	2038.13	2063.6	0.0	0.0	19.2	2064.3	-0.7
134	0111 1010	2053.75	2082.7	-0.4	-0.4	19.1	2080.2	2.5
135	0111 1001	2069.38	2104.6	-0.2	-0.2	21.9	2096.0	8.6
136	0111 1000	2085.00	2106.3	0.3	0.4	1.7	2111.9	-5.6
137	0111 0111	2100.63	2123.9	0.1	0.2	17.6	2127.7	-3.9
138	0111 0110	2116.25	2141.7	-0.3	-0.1	17.8	2143.6	-1.9
139	0111 0101	2131.88	2165.2	-0.2	-0.2	23.6	2159.4	5.8
140	0111 0100	2147.50	2180.6	0.0	-0.1	15.3	2175.3	5.3
141	0111 0011	2163.13	2190.2	0.1	0.2	9.6	2191.1	-0.9
142	0111 0010	2178.75	2209.3	-0.1	-0.1	19.1	2207.0	2.3
143	0111 0001	2194.38	2231.1	-0.2	-0.2	21.8	2222.8	8.2
144	0111 0000	2210.00	2232.9	-0.2	-0.2	1.9	2238.7	-5.8
145	0110 1111	2225.63	2249.5	0.2	0.0	16.5	2254.6	-5.1
146	0110 1110	2241.25	2265.6	0.4	0.4	16.2	2270.4	-4.8
147	0110 1101	2256.88	2290.2	0.0	0.2	24.6	2286.3	4.0
148	0110 1100	2272.50	2300.1	-0.2	-0.2	9.9	2302.1	-2.0
149	0110 1011	2288.13	2315.8	-0.0	-0.1	15.7	2318.0	-2.2
150	0110 1010	2303.75	2332.5	0.0	-0.1	16.7	2333.8	-1.3
151	0110 1001	2319.38	2356.5	0.2	0.2	24.0	2349.7	6.8
152	0110 1000	2335.00	2362.9	-0.2	-0.0	6.4	2365.5	-2.6
153	0110 0111	2350.63	2376.2	-0.2	-0.2	13.3	2381.4	-5.1
154	0110 0110	2366.25	2394.1	0.0	-0.3	17.9	2397.2	-3.1
155	0110 0101	2381.88	2417.2	0.1	0.1	23.1	2413.1	4.2
156	0110 0100	2397.50	2435.3	-0.0	-0.0	18.3	2428.9	6.7
157	0110 0011	2413.13	2442.5	-0.2	-0.0	7.0	2444.8	-2.2

ORIGINAL PAGE IS OF POOR QUALITY

1981/11/30 15:45:15 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

1.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=3)

HAC TEST 527 NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
158	0110 0010	2428.75	2462.1	-0.1	-0.2	19.6	2460.6	1.5
159	0110 0001	2444.38	2482.8	0.2	0.0	20.7	2476.5	6.3
160	0110 0000	2460.00	2488.8	0.4	0.4	6.0	2492.3	-3.6
161	0101 1111	2475.63	2502.1	-0.0	0.2	13.3	2508.2	-6.1
162	0101 1110	2491.25	2518.1	-0.3	-0.3	16.0	2524.0	-5.9
163	0101 1101	2506.88	2543.2	-0.2	-0.2	25.1	2539.9	3.3
164	0101 1100	2522.50	2549.5	0.2	0.0	6.3	2555.7	-6.2
165	0101 1011	2538.13	2568.2	0.1	0.2	18.7	2571.6	-3.3
166	0101 1010	2553.75	2587.5	-0.4	-0.0	19.3	2587.4	0.1
167	0101 1001	2569.38	2609.4	-0.1	-0.1	21.9	2603.3	6.1
168	0101 1000	2585.00	2613.4	0.0	-0.1	4.0	2619.1	-5.8
169	0101 0111	2600.63	2628.7	0.1	0.1	15.3	2635.0	-6.3
170	0101 0110	2616.25	2646.3	0.3	0.4	17.6	2650.9	-4.6
171	0101 0101	2631.88	2670.2	-0.3	-0.2	23.9	2666.7	3.5
172	0101 0100	2647.50	2685.9	-0.2	-0.2	15.7	2682.6	3.4
173	0101 0011	2663.13	2695.2	-0.0	-0.0	9.3	2698.4	-3.2
174	0101 0010	2678.75	2713.2	0.2	0.1	18.0	2714.3	-1.0
175	0101 0001	2694.38	2735.8	-0.0	0.2	22.5	2730.1	5.7
176	0101 0000	2710.00	2747.8	-0.2	-0.3	12.0	2746.0	1.9
177	0100 1111	2725.63	2754.6	-0.2	-0.2	6.8	2761.8	-7.2
178	0100 1110	2741.25	2770.5	0.3	-0.1	15.9	2777.7	-7.2
179	0100 1101	2756.88	2795.4	0.2	0.2	24.9	2793.5	1.9
180	0100 1100	2772.50	2805.6	-0.2	-0.1	10.2	2809.4	-3.8
181	0100 1011	2788.13	2820.6	-0.1	-0.0	15.0	2825.2	-4.6
182	0100 1010	2803.75	2840.8	-0.1	-0.1	20.2	2841.1	-0.3
183	0100 1001	2819.38	2861.4	0.2	0.2	20.6	2856.9	4.5

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 643

1981/11/30 15:45:15 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=3

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRATGHT LINE POINT	DEVIATION
184	0100 1000	2835.00	2870.5	0.5	0.7	9.0	2872.8	-2.3
185	0100 0111	2850.63	2881.1	-0.1	0.0	10.7	2888.6	-7.5
186	0100 0110	2866.25	2899.1	-0.4	-0.4	17.9	2904.5	-5.4
187	0100 0101	2881.88	2922.4	0.1	0.0	23.3	2920.3	2.0
188	0100 0100	2897.50	2941.5	0.0	0.1	19.2	2936.2	5.3
189	0100 0011	2913.13	2947.5	0.0	0.1	6.0	2952.0	-4.5
190	0100 0010	2928.75	2966.5	-0.1	-0.1	19.0	2967.9	-1.4
191	0100 0001	2944.38	2988.2	-0.1	-0.1	21.7	2983.7	4.5
192	0100 0000	2960.00	3001.4	0.3	0.0	13.2	2999.6	1.8
193	0011 1111	2975.63	3007.4	0.2	0.2	6.0	3015.5	-8.0
194	0011 1110	2991.25	3023.1	-0.2	0.0	15.7	3031.3	-8.2
195	0011 1101	3006.88	3048.9	-0.1	-0.1	25.8	3047.2	1.7
196	0011 1100	3022.50	3054.3	0.0	-0.2	5.4	3063.0	-8.7
197	0011 1011	3038.13	3074.0	0.0	0.0	19.7	3078.9	-4.9
198	0011 1010	3053.75	3092.5	0.4	0.4	18.5	3094.7	-2.2
199	0011 1001	3069.38	3115.9	-0.3	-0.0	23.4	3110.6	5.3
200	0011 1000	3085.00	3119.1	0.1	0.2	3.2	3126.4	-7.3
201	0011 0111	3100.63	3134.7	0.1	-0.0	15.7	3142.3	-7.5
202	0011 0110	3116.25	3152.0	0.6	0.4	17.2	3158.1	-6.1
203	0011 0101	3131.88	3176.5	-0.0	0.2	24.5	3174.0	2.6
204	0011 0100	3147.50	3191.7	-0.3	-0.2	15.1	3189.8	1.9
205	0011 0011	3163.13	3201.7	-0.0	-0.1	10.0	3205.7	-4.0
206	0011 0010	3178.75	3219.4	0.0	-0.1	17.7	3221.5	-2.2
207	0011 0001	3194.38	3243.1	0.0	0.2	23.8	3237.4	5.7
208	0011 0000	3210.00	3253.6	-0.0	0.0	10.4	3253.2	0.3
209	0010 1111	3225.63	3261.5	-0.2	-0.2	7.9	3269.1	-7.6

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL., FLT. S/N 3 PAGE 644

1981/11/30 15:45:15 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=3)

HAC TEST S27 10/30/81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRATGHT LINE POINT	DEVIATION
210	0010 1110	3241.25	3277.5	-0.0	-0.2	16.0	3284.9	-7.4
211	0010 1101	3256.88	3303.0	0.1	0.1	25.4	3300.8	2.2
212	0010 1100	3272.50	3311.4	0.2	0.2	8.4	3316.6	-5.2
213	0010 1011	3288.13	3328.1	-0.1	-0.0	16.7	3332.5	-4.3
214	0010 1010	3303.75	3348.3	-0.3	-0.2	20.2	3348.3	-0.0
215	0010 1001	3319.38	3369.9	0.1	-0.1	21.5	3364.2	5.7
216	0010 1000	3335.00	3375.7	0.4	0.4	5.8	3380.0	-4.4
217	0010 0111	3350.63	3389.1	-0.1	0.2	13.4	3395.9	-6.8
218	0010 0110	3366.25	3407.2	-0.5	-0.3	18.1	3411.8	-4.6
219	0010 0101	3381.88	3431.4	-0.2	-0.2	24.2	3427.6	3.8
220	0010 0100	3397.50	3449.4	0.1	-0.1	18.0	3443.5	5.9
221	0010 0011	3413.13	3462.9	-0.1	0.0	13.5	3459.3	3.6
222	0010 0010	3428.75	3474.6	0.0	0.0	11.7	3475.2	-0.5
223	0010 0001	3444.38	3497.9	-0.2	-0.1	23.2	3491.0	6.8
224	0010 0000	3460.00	3502.7	0.0	0.0	4.8	3506.9	-4.2
225	0001 1111	3475.63	3516.7	-0.0	-0.0	14.0	3522.7	-6.0
226	0001 1110	3491.25	3532.2	0.0	0.0	15.5	3538.6	-6.3
227	0001 1101	3506.88	3558.8	-0.3	-0.0	26.6	3554.4	4.4
228	0001 1100	3522.50	3571.4	-7.2	-0.2	12.6	3570.3	1.1
229	0001 1011	3538.13	3583.7	0.0	0.1	12.3	3586.1	-2.4
230	0001 1010	3553.75	3600.0	0.1	0.1	16.3	3602.0	-1.9
231	0001 1001	3569.38	3625.8	-0.1	0.2	25.7	3617.8	7.9
232	0001 1000	3585.00	3629.5	-0.1	-0.1	3.7	3633.7	-4.2
233	0001 0111	3600.63	3645.3	-0.2	-0.2	15.8	3649.5	-4.2
234	0001 0110	3616.25	3662.8	0.3	0.0	17.5	3665.4	-2.6
235	0001 0101	3631.88	3687.6	0.0	0.3	24.7	3681.2	6.3
236	0001 0100	3647.50	3703.1	-0.2	-0.0	15.6	3697.1	6.0

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 645

1981/11/30 15:45:15 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=3)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
237	0001 0011	3663.13	3712.6	-0.2	-0.1	9.5	3712.9	-0.3
238	0001 0010	3678.75	3729.9	-0.2	-0.1	17.3	3728.8	1.1
239	0001 0001	3694.38	3754.2	-0.0	0.2	24.3	3744.6	9.6
240	0001 0000	3710.00	3769.0	0.2	0.2	14.8	3760.5	8.5
241	0000 1111	3725.63	3773.3	-0.3	-0.1	4.2	3776.4	-3.1
242	0000 1110	3741.25	3789.0	-0.3	-0.3	15.8	3792.2	-3.2
243	0000 1101	3756.88	3815.2	0.0	0.0	26.1	3808.1	7.1
244	0000 1100	3772.50	3829.4	-0.1	-0.1	14.2	3823.9	5.5
245	0000 1011	3788.13	3840.2	-0.1	0.1	10.7	3839.8	0.4
246	0000 1010	3803.75	3860.6	-0.3	-0.2	20.4	3855.6	5.0
247	0000 1001	3819.38	3882.3	-0.3	-0.2	21.7	3871.5	10.8
248	0000 1000	3835.00	3892.9	0.3	0.1	10.5	3887.3	5.5
249	0000 0111	3850.63	3901.9	0.1	0.1	9.0	3903.2	-1.3
250	0000 0110	3866.25	3920.0	-0.5	-0.1	18.2	3919.0	1.0
251	0000 0101	3881.88	3944.7	-0.3	-0.3	24.6	3934.9	9.8
252	0000 0100	3897.50	3963.4	-0.2	-0.2	18.7	3950.7	12.7
253	0000 0011	3913.13	3973.3	-3.8	3.1	9.9	3966.6	6.7
254	0000 0010	3928.75	3987.6	0.0	0.1	14.3	3982.4	5.2
255	0000 0001	3944.38	4011.3	-0.4	-0.0	23.7	3998.3	13.1

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 646
1981/11/30 15:51:37 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

HAC TEST 227

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=1) 81 30 81

S U M M A R Y

CHECK 1) RMS ERROR, 2) THRESHOLD INCREMENT(+/- 0.0 = THRH INC <= 31.2)
THE REMAINING DATA ARE FOR INFORMATION ONLY

BEST FIT STRAIGHT LINE IS: Y =15.847X --43.0MV

DEVIATION OF SLOPE FROM IDEAL IS: 1.421%
OFFSET IS:-43.0MV
COEFFICIENT OF DETERMINATION IS: R**2= .99998560
ANALOG INPUT DURING DC RESTORE IS:64.5MV

RMS ERROR == 4.720MV REQMT: RMS ERROR <=7.812MV

THRESHOLD INCREMENT MEASUREMENT

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
27.9MV	243	15.904MV	1.5MV	241	5.956MV

LOWER LIMIT AT OUTPUT LEVELS RATIO == 1 : 1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
0.7MV	74	-0.045MV	-0.9MV	234	.541MV

UPPER LIMIT AT OUTPUT LEVELS RATIO == 1 : 1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
2.1MV	150	0.002MV	-0.8MV	128	.564MV

TEST PASSED

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 647

1981/11/30 15:51:51 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-B A/D THRESHOLD TEST (BAND= 4, SENSOR=4)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
THE FOLLOWING DATA ARE FOR INFORMATION ONLY								
1	1111 1111	-24.375	-30.3	-0.9	-0.5		-27.2	-3.1
2	1111 1110	-8.750	-18.6	-0.1	-0.6	11.7	-11.3	-7.3
3	1111 1101	6.875	5.2	0.5	0.5	23.8	4.5	0.7
4	1111 1100	22.500	17.7	0.5	0.6	12.5	20.4	-2.7
5	1111 1011	38.125	36.2	-0.5	0.0	18.5	36.2	-0.0
6	1111 1010	53.750	49.7	-0.7	-0.7	13.5	52.1	-2.4
7	1111 1001	69.375	72.2	-0.1	-0.6	22.5	67.9	4.3
8	1111 1000	85.000	77.0	0.6	0.6	4.8	83.8	-6.8
9	1111 0111	100.625	97.4	-0.1	0.6	20.4	99.6	-2.2
10	1111 0110	116.250	111.5	-0.7	-0.6	14.1	115.5	-4.0
11	1111 0101	131.875	133.9	-0.6	-0.6	22.4	131.3	2.6
12	1111 0100	147.500	149.1	0.6	-0.0	15.2	147.2	1.9
13	1111 0011	163.125	161.1	0.6	0.6	12.0	163.0	-1.9
14	1111 0010	178.750	179.2	-0.1	0.6	18.1	178.8	0.3
15	1111 0001	194.375	200.1	-0.6	-0.6	20.9	194.7	5.4
16	1111 0000	210.000	209.9	-0.1	-0.7	9.8	210.5	-0.6
17	1110 1111	225.625	224.4	0.5	0.6	14.5	226.4	-2.0
18	1110 1110	241.250	236.3	0.5	0.6	11.9	242.2	-5.9
19	1110 1101	256.875	261.0	-0.6	-0.0	24.7	258.1	2.9
20	1110 1100	272.500	276.3	-0.6	-0.6	15.3	273.9	2.4
21	1110 1011	288.125	291.3	0.0	-0.5	15.0	289.8	1.6
22	1110 1010	303.750	304.6	0.5	0.6	13.3	305.6	-1.0
23	1110 1001	319.375	326.8	-0.1	0.5	22.1	321.5	5.3
24	1110 1000	335.000	337.0	-0.7	-0.6	10.2	337.3	-0.3
25	1110 0111	350.625	353.1	-0.6	-0.6	16.0	353.2	-0.1

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 648

1981/11/30 15:51:51 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=4)

HAC TEST 127 NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRATGHT LINE POINT	DEVIATION
26	1110 0110	366.250	366.2	0.6	0.0	13.1	369.0	-2.8
27	1110 0101	381.875	388.4	0.5	0.6	22.2	384.9	3.5
28	1110 0100	397.500	407.2	-0.1	0.6	18.8	400.7	6.5
29	1110 0011	413.125	416.6	-0.5	-0.6	9.3	416.6	0.0
30	1110 0010	428.750	435.1	-0.1	-0.6	18.5	432.4	2.7
31	1110 0001	444.375	454.6	0.5	0.5	19.5	448.2	6.3
32	1110 0000	460.000	459.7	0.7	0.7	5.1	464.1	-4.4
33	1101 1111	475.625	480.6	-0.6	-0.0	20.9	479.9	0.6
34	1101 1110	491.250	491.7	-0.7	-0.6	11.2	495.8	-4.0
35	1101 1101	506.875	516.4	-0.0	-0.5	24.6	511.6	4.8
36	1101 1100	522.500	528.5	0.6	0.6	12.1	527.5	1.0
37	1101 1011	538.125	543.0	-0.1	0.6	14.5	543.3	-0.3
38	1101 1010	553.750	559.9	-0.7	-0.6	16.8	559.2	0.7
39	1101 1001	569.375	582.7	-0.6	-0.5	27.8	575.0	7.7
40	1101 1000	585.000	589.5	0.7	0.0	6.8	590.9	-1.4
41	1101 0111	600.625	607.8	0.5	0.5	18.3	606.7	1.0
42	1101 0110	616.250	620.7	-0.1	0.5	13.0	622.6	-1.8
43	1101 0101	631.875	644.0	-0.6	-0.6	23.3	638.4	5.6
44	1101 0100	647.500	660.1	-0.0	-0.6	16.1	654.3	5.9
45	1101 0011	663.125	670.6	0.5	0.6	10.5	670.1	0.5
46	1101 0010	678.750	688.6	0.6	0.6	18.0	686.0	2.7
47	1101 0001	694.375	710.0	-0.6	-0.0	21.4	701.8	8.2
48	1101 0000	710.000	722.9	-0.7	-0.7	12.9	717.6	5.3
49	1100 1111	725.625	734.6	-0.0	-0.6	11.7	733.5	1.1
50	1100 1110	741.250	745.4	0.5	0.6	10.8	749.3	-3.9
51	1100 1101	756.875	769.7	-0.0	0.5	24.3	765.2	4.5

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 649
1981/11/30 15:51:51 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=4)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
52	1100 1100	772.500	786.0	-0.6	-0.6	16.2	781.0	4.9
53	1100 1011	788.125	797.3	-0.6	-0.6	11.3	796.9	0.4
54	1100 1010	803.750	813.3	0.5	-0.1	16.0	812.7	0.5
55	1100 1001	819.375	835.6	0.5	0.6	22.3	828.6	7.0
56	1100 1000	835.000	847.8	-0.0	0.6	12.1	844.4	3.3
57	1100 0111	850.625	861.7	-0.6	-0.6	13.9	860.3	1.4
58	1100 0110	866.250	874.9	-0.0	-0.6	13.2	876.1	-1.2
59	1100 0101	881.875	896.5	0.5	0.6	21.6	892.0	4.6
60	1100 0100	897.500	915.7	0.5	0.6	19.1	907.8	7.9
61	1100 0011	913.125	924.2	-0.6	0.0	8.5	923.7	0.5
62	1100 0010	928.750	942.5	-0.6	-0.6	18.3	939.5	3.0
63	1100 0001	944.375	962.8	0.0	-0.6	20.3	955.4	7.4
64	1100 0000	960.000	972.8	0.7	0.7	10.0	971.2	1.6
65	1011 1111	975.625	987.8	0.0	0.5	15.1	987.0	0.8
66	1011 1110	991.250	998.6	-0.6	-0.8	10.7	1002.9	-4.3
67	1011 1101	1006.88	1023.7	-0.6	-0.6	25.1	1018.7	5.0
68	1011 1100	1022.50	1035.3	0.6	-0.0	11.5	1034.6	0.7
69	1011 1011	1038.13	1049.7	0.6	0.5	14.4	1050.4	-0.8
70	1011 1010	1053.75	1065.4	0.0	0.6	15.8	1066.3	-0.8
71	1011 1001	1069.38	1090.1	-0.6	-0.6	24.6	1082.1	8.0
72	1011 1000	1085.00	1093.9	-0.0	-0.6	3.8	1098.0	-4.1
73	1011 0111	1100.63	1110.1	0.5	0.6	16.2	1113.8	-3.7
74	1011 0110	1116.25	1126.4	0.7	0.7	16.3	1129.7	-3.3
75	1011 0101	1131.88	1150.8	-0.6	-0.0	24.4	1145.5	5.3
76	1011 0100	1147.50	1165.5	-0.6	-0.6	14.7	1161.4	4.1
77	1011 0011	1163.13	1177.0	-0.0	-0.6	11.5	1177.2	-0.2
78	1011 0010	1178.75	1194.0	0.6	0.6	17.0	1193.1	0.9

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 650

1981/11/30 15:51:51 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-B A/D THRESHOLD TEST (BAND= 4, SENSOR=4)

HAC TEST 527

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PRFV THRESHOLD	BEST FIT STRATGHT LINE POINT	DEVTATION
79	1011 0001	1194.38	1215.8	-0.0	0.5	21.8	1208.9	6.9
80	1011 0000	1210.00	1223.4	-0.6	-0.7	7.5	1224.8	-1.4
81	1010 1111	1225.63	1236.3	-0.6	-0.6	12.9	1240.6	-4.3
82	1010 1110	1241.25	1250.4	0.7	0.0	14.1	1256.4	-6.0
83	1010 1101	1256.88	1275.5	0.6	0.6	25.0	1272.3	3.2
84	1010 1100	1272.50	1285.3	0.0	0.6	9.9	1288.1	-2.8
85	1010 1011	1288.13	1302.2	-0.5	-0.6	16.9	1304.0	-1.8
86	1010 1010	1303.75	1318.5	0.0	-0.6	16.2	1319.8	-1.4
87	1010 1001	1319.38	1341.4	0.6	0.5	22.9	1335.7	5.7
88	1010 1000	1335.00	1350.7	0.6	0.6	9.2	1351.5	-0.8
89	1010 0111	1350.63	1362.7	-0.6	0.0	12.0	1367.4	-4.7
90	1010 0110	1366.25	1379.4	-0.6	-0.6	16.7	1383.2	-3.9
91	1010 0101	1381.88	1402.7	0.0	-0.6	23.4	1399.1	3.7
92	1010 0100	1397.50	1420.0	0.6	0.6	17.3	1414.9	5.1
93	1010 0011	1413.13	1428.3	-0.0	0.5	8.3	1430.8	-2.5
94	1010 0010	1428.75	1446.8	-0.6	-0.6	18.5	1446.6	0.2
95	1010 0001	1444.38	1468.2	-0.5	-0.6	21.4	1462.5	5.7
96	1010 0000	1460.00	1474.7	0.7	-0.0	6.5	1478.3	-3.6
97	1001 1111	1475.63	1488.1	0.5	0.6	13.3	1494.2	-6.1
98	1001 1110	1491.25	1502.3	0.1	0.7	14.2	1510.0	-7.7
99	1001 1101	1506.88	1528.7	-0.6	-0.6	26.4	1525.8	2.8
100	1001 1100	1522.50	1535.6	-0.6	-0.6	6.9	1541.7	-6.1
101	1001 1011	1538.13	1554.0	0.5	0.6	18.4	1557.5	-3.5
102	1001 1010	1553.75	1569.7	0.6	0.5	15.7	1573.4	-3.7
103	1001 1001	1569.38	1594.5	-0.6	0.0	24.8	1589.2	5.2
104	1001 1000	1585.00	1600.6	-0.7	-0.7	6.1	1605.1	-4.5

ORIGINAL PAGE IS OF POOR QUALITY

1981/11/30 15:51:51 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-B A/D THRESHOLD TEST (BAND= 4, SENSOR=4)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
105	1001 0111	1600.63	1615.0	0.0	-0.5	14.4	1620.9	-5.9
106	1001 0110	1616.25	1630.8	0.5	0.5	15.7	1636.8	-6.0
107	1001 0101	1631.88	1654.6	0.6	0.6	23.8	1652.6	2.0
108	1001 0100	1647.50	1670.3	-0.7	-0.7	15.7	1668.5	1.8
109	1001 0011	1663.13	1681.1	-0.6	-0.5	10.8	1684.3	-3.2
110	1001 0010	1678.75	1698.2	0.6	-0.1	17.0	1700.2	-2.0
111	1001 0001	1694.38	1720.2	0.5	0.6	22.0	1716.0	4.2
112	1001 0000	1710.00	1735.6	-0.0	0.5	15.4	1731.9	3.8
113	1000 1111	1725.63	1740.6	-0.6	-0.6	5.0	1747.7	-7.1
114	1000 1110	1741.25	1755.2	-0.6	-0.6	14.6	1763.6	-8.4
115	1000 1101	1756.88	1780.0	0.5	0.5	24.8	1779.4	0.6
116	1000 1100	1772.50	1790.1	0.4	0.3	10.0	1795.2	-5.2
117	1000 1011	1788.13	1806.4	-0.7	0.0	16.3	1811.1	-4.7
118	1000 1010	1803.75	1822.5	-0.6	-0.6	16.1	1826.9	-4.5
119	1000 1001	1819.38	1846.2	-0.0	-0.6	23.7	1842.8	3.4
120	1000 1000	1835.00	1856.6	0.6	0.6	10.4	1858.6	-2.1
121	1000 0111	1850.63	1866.2	0.6	0.6	9.6	1874.5	-8.3
122	1000 0110	1866.25	1883.3	-0.6	-0.6	17.1	1890.3	-7.0
123	1000 0101	1881.88	1906.8	-0.6	-0.6	23.5	1906.2	0.7
124	1000 0100	1897.50	1924.7	0.5	-0.0	17.9	1922.0	2.7
125	1000 0011	1913.13	1932.2	0.5	0.6	7.5	1937.9	-5.7
126	1000 0010	1928.75	1950.2	-0.1	0.6	18.0	1953.7	-3.6
127	1000 0001	1944.38	1972.4	-0.6	-0.6	22.2	1969.6	2.8
128	1000 0000	1960.00	1989.6	-0.8	-0.8	17.2	1985.4	4.2
129	0111 1111	1975.63	1997.1	0.6	0.6	7.5	2001.3	-4.1
130	0111 1110	1991.25	2012.8	0.6	0.4	15.7	2017.1	-4.3

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 652

1981/11/30 15:51:51 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-B A/D THRESHOLD TEST (BAND= 4, SENSOR=4)

HAC TEST S27

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
131	0111 1101	2006.88	2038.7	-0.5	0.0	25.9	2033.0	5.8
132	0111 1100	2022.50	2045.3	-0.6	-0.6	6.6	2048.8	-3.5
133	0111 1011	2038.13	2064.3	-0.1	-0.6	19.0	2064.6	-0.3
134	0111 1010	2053.75	2080.4	0.5	0.6	16.1	2080.5	-0.1
135	0111 1001	2069.38	2104.9	0.5	0.6	24.5	2096.3	8.6
136	0111 1000	2085.00	2109.9	-0.6	-0.6	5.0	2112.2	-2.3
137	0111 0111	2100.63	2124.5	-0.6	-0.6	14.6	2128.0	-3.6
138	0111 0110	2116.25	2141.2	0.6	0.1	16.7	2143.9	-2.7
139	0111 0101	2131.88	2165.4	0.6	0.5	24.2	2159.7	5.6
140	0111 0100	2147.50	2181.3	-0.0	0.6	15.9	2175.6	5.7
141	0111 0011	2163.13	2191.0	-0.6	-0.6	9.7	2191.4	-0.4
142	0111 0010	2178.75	2209.5	-0.8	-0.6	18.5	2207.3	2.2
143	0111 0001	2194.38	2228.8	0.5	0.6	19.3	2223.1	5.7
144	0111 0000	2210.00	2233.9	0.6	0.6	5.1	2239.0	-5.1
145	0110 1111	2225.63	2250.0	-0.6	0.0	16.1	2254.8	-4.8
146	0110 1110	2241.25	2265.0	-0.6	-0.6	15.8	2270.7	-4.8
147	0110 1101	2256.88	2291.1	0.0	-0.6	25.2	2286.5	4.6
148	0110 1100	2272.50	2300.0	0.6	0.6	8.9	2302.4	-2.3
149	0110 1011	2288.13	2315.8	0.6	0.6	15.7	2318.2	-2.4
150	0110 1010	2303.75	2333.6	-0.7	2.1	17.8	2334.0	-0.4
151	0110 1001	2319.38	2357.6	-0.6	-0.6	23.9	2349.9	7.7
152	0110 1000	2335.00	2363.9	0.6	-0.1	6.3	2365.7	-1.8
153	0110 0111	2350.63	2376.0	0.6	0.5	12.1	2381.6	-5.6
154	0110 0110	2366.25	2393.6	-0.1	0.5	17.6	2397.4	-3.8
155	0110 0101	2381.88	2418.1	-0.6	-0.6	24.4	2413.3	4.8
156	0110 0100	2397.50	2436.7	-0.7	-0.7	18.7	2429.1	7.6
157	0110 0011	2413.13	2442.4	0.6	0.6	5.6	2445.0	-2.6

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 653

1981/11/30 15:51:51 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=4)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
158	0110 0010	2428.75	2461.1	0.5	0.5	18.7	2460.8	0.3
159	0110 0001	2444.38	2481.4	-0.5	0.0	20.2	2476.7	4.7
160	0110 0000	2460.00	2491.2	-0.7	-0.7	9.8	2492.5	-1.4
161	0101 1111	2475.63	2502.5	0.0	-0.6	11.3	2508.4	-5.9
162	0101 1110	2491.25	2517.4	0.5	0.6	14.9	2524.2	-6.8
163	0101 1101	2506.88	2543.6	0.6	0.6	26.1	2540.1	3.5
164	0101 1100	2522.50	2550.3	-0.6	-0.6	6.7	2555.9	-5.7
165	0101 1011	2538.13	2568.8	-0.6	-0.5	18.5	2571.8	-3.0
166	0101 1010	2553.75	2584.8	0.6	-0.1	16.0	2587.6	-2.8
167	0101 1001	2569.38	2607.4	0.6	0.6	22.5	2603.4	3.9
168	0101 1000	2585.00	2614.5	-0.0	0.7	7.1	2619.3	-4.8
169	0101 0111	2600.63	2629.1	-0.5	-0.6	14.6	2635.1	-6.0
170	0101 0110	2616.25	2646.6	-0.8	-0.8	17.4	2651.0	-4.4
171	0101 0101	2631.88	2670.3	0.6	0.5	23.8	2666.8	3.5
172	0101 0100	2647.50	2686.5	0.6	0.6	16.1	2682.7	3.8
173	0101 0011	2663.13	2695.7	-0.6	0.0	9.2	2698.5	-2.8
174	0101 0010	2678.75	2714.2	-0.7	-0.7	18.5	2714.4	-0.2
175	0101 0001	2694.38	2734.3	0.0	-0.5	20.1	2730.2	4.0
176	0101 0000	2710.00	2749.3	0.6	0.6	15.0	2746.1	3.2
177	0100 1111	2725.63	2754.2	0.5	0.5	5.0	2761.9	-7.7
178	0100 1110	2741.25	2770.5	-0.6	-0.6	16.3	2777.8	-7.2
179	0100 1101	2756.88	2796.4	-0.6	-0.6	25.8	2793.6	2.8
180	0100 1100	2772.50	2805.4	0.6	-0.1	9.0	2809.5	-4.1
181	0100 1011	2788.13	2820.5	0.5	0.6	15.1	2825.3	-4.8
182	0100 1010	2803.75	2837.5	0.0	0.6	17.0	2841.2	-3.6
183	0100 1001	2819.38	2862.5	-0.6	-0.6	25.0	2857.0	5.5

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 654

1981/11/30 15:51:51 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-B A/D THRESHOLD TEST (BAND= 4, SENSOR=4)

HAC TEST S27 NV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD)	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
184	0100 1000	2835.00	2875.3	-0.7	-0.6	12.8	2872.8	2.5
185	0100 0111	2850.63	2880.9	0.6	0.6	5.5	2888.7	-7.8
186	0100 0110	2866.25	2898.5	0.6	0.5	17.6	2904.5	-6.1
187	0100 0101	2881.88	2923.2	-0.5	0.1	24.7	2920.4	2.8
188	0100 0100	2897.50	2942.5	-0.6	-0.6	19.2	2936.2	6.2
189	0100 0011	2913.13	2948.0	0.0	-0.6	5.5	2952.1	-4.1
190	0100 0010	2928.75	2966.2	0.4	0.6	18.2	2967.9	-1.7
191	0100 0001	2944.38	2986.3	0.5	0.5	20.1	2983.8	2.6
192	0100 0000	2960.00	3003.6	-0.8	-0.6	17.2	2999.6	4.0
193	0011 1111	2975.63	3007.8	-0.6	-0.6	4.2	3015.5	-7.7
194	0011 1110	2991.25	3022.4	0.7	0.1	14.6	3031.3	-8.9
195	0011 1101	3006.88	3049.5	0.5	0.6	27.1	3047.2	2.4
196	0011 1100	3022.50	3054.3	0.0	0.6	4.8	3063.0	-8.7
197	0011 1011	3038.13	3074.5	-0.7	-0.6	20.2	3078.9	-4.4
198	0011 1010	3053.75	3090.5	-0.6	-0.6	16.0	3094.7	-4.2
199	0011 1001	3069.38	3113.4	0.6	0.6	22.9	3110.6	2.9
200	0011 1000	3085.00	3120.1	0.6	0.6	6.7	3126.4	-6.3
201	0011 0111	3100.63	3135.2	-0.6	0.0	15.1	3142.2	-7.1
202	0011 0110	3116.25	3152.3	-0.6	-0.6	17.2	3158.1	-5.8
203	0011 0101	3131.88	3177.3	-0.1	-0.6	25.0	3173.9	3.4
204	0011 0100	3147.50	3192.2	0.6	0.6	14.9	3189.8	2.4
205	0011 0011	3163.13	3201.5	0.6	0.6	9.2	3205.6	-4.2
206	0011 0010	3178.75	3220.5	-0.7	-0.6	19.0	3221.5	-1.0
207	0011 0001	3194.38	3241.5	-0.6	-0.6	20.9	3237.3	4.1
208	0011 0000	3210.00	3248.3	0.7	0.0	6.8	3253.2	-4.9
209	0010 1111	3225.63	3261.2	0.5	0.5	13.0	3269.0	-7.8

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 655

1981/11/30 15:51:51 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=4

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
210	0010 1110	3241.25	3276.7	0.0	0.7	15.5	3284.9	-8.1
211	0010 1101	3256.88	3304.1	-0.6	-0.6	27.4	3300.7	3.4
212	0010 1100	3272.50	3312.1	-0.7	-0.6	8.0	3316.6	-4.4
213	0010 1011	3288.13	3327.9	0.5	0.7	15.8	3332.4	-4.5
214	0010 1010	3303.75	3344.5	0.5	1.4	16.6	3348.3	-3.7
215	0010 1001	3319.38	3368.4	-0.7	0.0	23.9	3364.1	4.3
216	0010 1000	3335.00	3379.8	-0.6	-0.6	11.4	3380.0	-0.1
217	0010 0111	3350.63	3389.5	-0.1	-0.6	9.7	3395.8	-6.3
218	0010 0110	3366.25	3406.5	0.4	0.6	17.0	3411.6	-5.1
219	0010 0101	3381.88	3431.5	0.5	0.6	24.9	3427.5	4.0
220	0010 0100	3397.50	3450.4	-0.7	-0.1	19.0	3443.3	7.1
221	0010 0011	3413.13	3456.7	-0.6	-0.6	6.2	3459.2	-2.5
222	0010 0010	3428.75	3474.9	0.5	-0.1	18.3	3475.0	-0.1
223	0010 0001	3444.38	3495.7	0.4	0.6	20.8	3490.9	4.8
224	0010 0000	3460.00	3504.0	-0.1	0.7	8.3	3506.7	-2.7
225	0001 1111	3475.63	3517.0	-0.6	-0.5	13.0	3522.6	-5.5
226	0001 1110	3491.25	3532.5	-0.8	-0.7	15.5	3538.4	-5.9
227	0001 1101	3506.88	3559.3	0.4	-0.1	26.7	3554.3	5.0
228	0001 1100	3522.50	3564.2	0.6	0.6	4.9	3570.1	-6.0
229	0001 1011	3538.13	3584.2	-0.8	-0.0	20.1	3586.0	-1.7
230	0001 1010	3553.75	3600.9	-0.6	-0.6	16.6	3601.8	-0.9
231	0001 1001	3569.38	3624.5	-0.2	-0.6	23.6	3617.7	6.8
232	0001 1000	3585.00	3630.5	0.6	0.7	6.0	3633.5	-3.0
233	0001 0111	3600.63	3644.9	0.6	0.6	14.4	3649.4	-4.4
234	0001 0110	3616.25	3662.8	-0.9	0.0	17.9	3665.2	-2.4
235	0001 0101	3631.88	3688.4	-0.7	-0.5	25.6	3681.0	7.3
236	0001 0100	3647.50	3703.4	0.6	0.0	15.0	3696.9	6.5

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 656
1981/11/30 15:51:51 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.4.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=4

HAC TEST 527
NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
237	0001 0011	3663.13	3712.4	0.5	0.6	9.1	3712.7	-0.3
238	0001 0010	3678.75	3732.9	-0.1	0.6	20.5	3728.6	4.3
239	0001 0001	3694.38	3753.0	-0.7	-0.5	20.1	3744.4	8.5
240	0001 0000	3710.00	3771.2	-0.7	-0.6	18.2	3760.3	10.9
241	0000 1111	3725.63	3772.8	0.6	-0.0	1.5	3776.1	-3.4
242	0000 1110	3741.25	3788.3	0.5	0.6	15.5	3792.0	-3.7
243	0000 1101	3756.88	3816.2	-0.9	-0.0	27.9	3807.8	8.4
244	0000 1100	3772.50	3824.7	-0.6	-0.6	8.5	3823.7	1.0
245	0000 1011	3788.13	3840.6	-0.1	-0.6	15.9	3839.5	1.0
246	0000 1010	3803.75	3858.0	0.5	0.6	17.5	3855.4	2.7
247	0000 1001	3819.38	3882.8	0.5	0.6	24.7	3871.2	11.5
248	0000 1000	3835.00	3897.2	-0.8	0.0	14.5	3887.1	10.2
249	0000 0111	3850.63	3902.1	-0.6	-0.5	4.8	3902.9	-0.8
250	0000 0110	3866.25	3919.1	0.5	0.0	17.0	3918.8	0.3
251	0000 0101	3881.88	3944.7	0.4	0.6	25.6	3934.6	10.1
252	0000 0100	3897.50	3963.5	-0.2	0.5	18.8	3950.4	13.1
253	0000 0011	3913.13	3969.9	-0.6	-0.7	6.3	3966.3	3.6
254	0000 0010	3928.75	3980.7	-0.6	-0.6	18.9	3982.1	6.6
255	0000 0001	3944.38	4009.4	0.3	-0.0	20.7	3998.0	11.4

ORIGINAL PAGE IS OF POOR QUALITY

HAC TEST S27

NOV 30 '81

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 657

1981/11/30 15:50:13 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=5)

S U M M A R Y

CHECK 1) RMS ERROR, 2) THRESHOLD INCREMENT(+/- 0.0 <= THRH INC <= 31.2)
THE REMATNING DATA ARE FOR INFORMATION ONLY

BEST FIT STRAIGHT LINE IS: Y =15.857X -41.2MV

DEVIATION OF SLOPE FROM IDEAL IS: 1.486%
OFFSET IS:-41.2MV
COEFFICIENT OF DETERMINATION IS: R**2= .99998190
ANALOG INPUT DURING DC RESTORE IS:64.4MV

RMS ERROR = 4.742MV REQMT: RMS ERROR <=7.812MV

THRESHOLD INCREMENT MEASUREMENT

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
27.4MV	227	15.923MV	2.5MV	241	5.921MV

LOWER LIMIT AT OUTPUT LEVELS RATIO = 1 : 1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
0.9MV	196	-0.053MV	-6.5MV	144	.729MV

UPPER LIMIT AT OUTPUT LEVELS RATIO = 1 : 1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
1.0MV	178	0.003MV	-0.9MV	143	.651MV

TEST PASSED

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 658

1981/11/30 15:58:27 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-B A/D THRESHOLD TEST (BAND= 4, SENSOR=5)

HAC TEST 527

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
THE FOLLOWING DATA ARE FOR INFORMATION ONLY								
1	1111 1111	-24.375	-28.5	0.3	0.7		-25.3	-3.2
2	1111 1110	-8.750	-16.5	0.0	0.6	12.0	-9.5	-7.0
3	1111 1101	6.875	8.2	-0.8	-0.7	24.7	6.4	1.8
4	1111 1100	22.500	20.5	-0.0	-0.7	12.3	22.2	-1.8
5	1111 1011	38.125	37.8	0.6	0.7	17.3	38.1	-0.3
6	1111 1010	53.750	52.2	0.7	0.7	14.3	54.0	-1.8
7	1111 1001	69.375	74.8	-0.8	0.0	22.6	69.8	5.0
8	1111 1000	85.000	80.1	-0.7	-0.7	5.3	85.7	-5.6
9	1111 0111	100.625	100.4	-0.1	-0.6	20.3	101.5	-1.1
10	1111 0110	116.250	113.6	0.7	0.7	13.2	117.4	-3.7
11	1111 0101	131.875	135.7	-0.1	0.7	22.1	133.2	2.5
12	1111 0100	147.500	152.1	-0.7	-0.7	16.4	149.1	3.0
13	1111 0011	163.125	164.3	-0.8	-0.7	12.1	165.0	-0.7
14	1111 0010	178.750	182.3	0.6	0.1	18.0	180.8	1.5
15	1111 0001	194.375	202.1	0.6	0.7	19.8	196.7	5.4
16	1111 0000	210.000	211.6	-0.1	0.6	9.5	212.5	-0.9
17	1110 1111	225.625	227.5	-0.7	-0.7	15.8	228.4	-0.9
18	1110 1110	241.250	239.8	-0.1	-0.7	12.4	244.2	-4.4
19	1110 1101	256.875	262.7	0.6	0.7	22.8	260.1	2.6
20	1110 1100	272.500	277.6	0.6	0.6	14.9	276.0	1.7
21	1110 1011	288.125	291.2	-0.7	-0.0	13.6	291.8	-0.6
22	1110 1010	303.750	308.4	-0.8	-0.7	17.1	307.7	0.7
23	1110 1001	319.375	329.8	-0.0	-0.6	21.4	323.5	6.2
24	1110 1000	335.000	339.3	0.7	0.8	9.5	339.4	-0.1
25	1110 0111	350.625	354.8	-0.1	0.7	15.4	355.2	-0.5

ORIGINAL PAGE IS OF POOR QUALITY

1981/11/30 15:58:27 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=5)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
26	1110 0110	366.250	369.8	-0.8	-0.7	15.0	371.1	-1.3
27	1110 0101	381.875	391.3	-0.8	-0.7	21.5	387.0	4.4
28	1110 0100	397.500	409.3	0.6	0.0	18.0	402.8	6.5
29	1110 0011	413.125	418.4	0.6	0.6	9.1	418.7	-0.2
30	1110 0010	428.750	437.6	-0.0	0.7	19.1	434.5	3.0
31	1110 0001	444.375	457.6	-0.7	-0.6	20.0	450.4	7.2
32	1110 0000	460.000	462.4	0.0	-0.7	4.8	466.2	-3.9
33	1101 1111	475.625	482.2	0.6	0.7	19.8	482.1	0.1
34	1101 1110	491.250	493.8	0.6	0.7	11.7	498.0	-4.1
35	1101 1101	506.875	518.7	-0.7	0.0	24.8	513.8	4.9
36	1101 1100	522.500	531.3	-0.7	-0.6	12.6	529.7	1.7
37	1101 1011	538.125	546.2	-0.0	-0.7	14.8	545.5	0.7
38	1101 1010	553.750	562.0	0.7	0.7	15.8	561.4	0.6
39	1101 1001	569.375	584.3	-0.0	0.7	22.3	577.2	7.1
40	1101 1000	585.000	592.4	-0.7	-0.7	8.1	593.1	-0.7
41	1101 0111	600.625	607.2	-0.7	-0.7	14.8	609.0	-1.7
42	1101 0110	616.250	623.4	0.6	-0.1	16.2	624.8	-1.4
43	1101 0101	631.875	645.6	0.6	0.7	22.2	640.7	4.9
44	1101 0100	647.500	661.6	-0.0	0.6	16.0	656.5	5.1
45	1101 0011	663.125	673.8	-0.7	-0.7	17.1	672.4	1.4
46	1101 0010	678.750	692.3	0.0	-0.7	18.5	688.2	4.1
47	1101 0001	694.375	711.7	0.6	0.7	19.4	704.1	7.6
48	1101 0000	710.000	724.5	0.6	0.6	12.9	720.0	4.6
49	1100 1111	725.625	736.9	-0.7	0.0	12.3	735.8	1.1
50	1100 1110	741.250	748.8	-0.7	-0.7	11.9	751.7	-2.9
51	1100 1101	756.875	772.4	0.0	-0.7	23.6	767.5	4.9

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 660
1981/11/30 15:58:27 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=5)

HAC TEST S27 NOV 30 '81

HRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
52	1100 1100	772.500	783.9	0.7	0.7	11.5	783.4	0.6
53	1100 1011	788.125	799.1	-0.1	0.7	15.2	799.2	-0.1
54	1100 1010	803.750	816.7	-0.7	-0.7	17.6	815.1	1.6
55	1100 1001	819.375	838.4	-0.7	-0.7	21.7	831.0	7.4
56	1100 1000	835.000	849.8	0.8	0.0	11.4	846.8	3.0
57	1100 0111	850.625	859.8	0.7	0.7	10.0	862.7	-2.9
58	1100 0110	866.250	877.0	0.0	0.6	17.2	878.5	-1.6
59	1100 0101	881.875	899.2	-0.7	-0.7	22.3	894.4	4.8
60	1100 0100	897.500	918.0	0.0	-0.6	18.8	910.2	7.8
61	1100 0011	913.125	925.9	0.7	0.7	7.9	926.1	-0.2
62	1100 0010	928.750	944.9	0.5	0.7	19.0	942.0	3.0
63	1100 0001	944.375	965.0	-0.7	0.0	20.1	957.8	7.2
64	1100 0000	960.000	973.9	-0.6	-0.6	8.9	973.7	0.3
65	1011 1111	975.625	986.4	0.0	-0.7	12.5	989.5	-3.1
66	1011 1110	991.250	1000.6	0.7	0.7	14.1	1005.4	-4.8
67	1011 1101	1006.88	1025.2	0.0	0.8	24.7	1021.2	4.0
68	1011 1100	1022.50	1033.3	-0.7	-0.7	8.1	1037.1	-3.8
69	1011 1011	1038.13	1052.7	-0.7	-0.7	19.4	1053.0	-0.2
70	1011 1010	1053.75	1067.8	0.7	-0.0	15.0	1068.8	-1.0
71	1011 1001	1069.38	1091.6	0.7	0.8	23.8	1084.7	6.9
72	1011 1000	1085.00	1095.4	0.0	0.6	3.8	1100.5	-5.2
73	1011 0111	1100.63	1113.2	-0.7	-0.7	17.9	1116.4	-3.1
74	1011 0110	1116.25	1129.8	0.1	-0.7	16.5	1132.2	-2.5
75	1011 0101	1131.88	1152.3	0.6	0.6	22.5	1148.1	4.2
76	1011 0100	1147.50	1167.0	0.7	0.6	14.7	1164.0	3.0
77	1011 0011	1163.13	1179.4	-0.7	0.0	12.5	1179.8	-0.4
78	1011 0010	1178.75	1197.5	-0.7	-0.7	18.1	1195.7	1.9

ORIGINAL PAGE IS OF POOR QUALITY

1981/11/30 15:58:27 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=5)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRATGHT LINE POINT	DEVIATION
79	1011 0001	1194.38	1218.9	-0.1	-0.8	21.3	1211.5	7.3
80	1011 0000	1210.00	1224.9	0.7	0.6	6.1	1227.4	-2.4
81	1010 1111	1225.63	1238.1	-0.0	0.8	13.1	1243.2	-5.1
82	1010 1110	1241.25	1253.8	-0.7	-0.7	15.7	1259.1	-5.3
83	1010 1101	1256.88	1278.3	-0.6	-0.7	24.5	1275.0	3.4
84	1010 1100	1272.50	1287.9	0.6	-0.0	9.5	1290.8	-2.9
85	1010 1011	1288.13	1304.3	0.6	0.7	16.4	1306.7	-2.4
86	1010 1010	1303.75	1320.6	0.0	0.6	16.3	1322.5	-1.9
87	1010 1001	1319.38	1344.3	-0.7	-0.7	23.7	1338.4	6.0
88	1010 1000	1335.00	1353.0	-0.1	-0.8	8.6	1354.2	-1.3
89	1010 0111	1350.63	1364.7	0.7	0.6	11.7	1370.1	-5.4
90	1010 0110	1366.25	1381.7	0.6	0.6	16.9	1386.0	-4.3
91	1010 0101	1381.88	1405.1	-0.7	0.0	23.4	1401.8	3.3
92	1010 0100	1397.50	1422.7	-0.7	-0.6	17.6	1417.7	5.1
93	1010 0011	1413.13	1431.5	0.0	-0.8	8.7	1433.5	-2.1
94	1010 0010	1428.75	1449.5	0.7	0.7	18.0	1449.4	0.1
95	1010 0001	1444.38	1470.0	-0.0	0.8	20.5	1465.2	4.7
96	1010 0000	1460.00	1477.8	-0.8	-0.7	7.8	1481.1	-3.3
97	1001 1111	1475.63	1491.3	-0.7	-0.7	13.5	1497.0	-5.7
98	1001 1110	1491.25	1505.6	0.5	-0.1	14.3	1512.8	-7.2
99	1001 1101	1506.88	1530.4	0.7	0.8	24.8	1528.7	1.7
100	1001 1100	1522.50	1537.5	0.0	0.7	7.1	1544.5	-7.0
101	1001 1011	1538.13	1557.4	-0.9	-0.7	19.9	1560.4	-2.9
102	1001 1010	1553.75	1572.7	0.1	-0.6	15.3	1576.2	-3.5
103	1001 1001	1569.38	1596.2	0.6	0.7	23.4	1592.1	4.1
104	1001 1000	1585.00	1602.4	0.6	0.7	6.3	1608.0	-5.5

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 662
1981/11/30 15:58:27 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.3.5-B A/D THRESHOLD TEST (BAND= 4, SENSOR=5)

HAC TEST S27 NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
105	1001 0111	1600.63	1617.9	-0.8	0.0	15.5	1623.8	-5.9
106	1001 0110	1616.25	1634.4	-0.7	-0.7	16.5	1639.7	-5.3
107	1001 0101	1631.88	1657.7	-0.0	-0.8	23.3	1655.5	2.2
108	1001 0100	1647.50	1672.1	0.7	0.7	14.4	1671.4	0.7
109	1001 0011	1663.13	1683.3	-0.0	0.7	11.3	1687.2	-3.9
110	1001 0010	1678.75	1702.1	-0.8	-0.8	18.7	1703.1	-1.0
111	1001 0001	1694.38	1723.4	-0.8	-0.8	21.3	1719.0	4.4
112	1001 0000	1710.00	1738.1	0.6	0.0	14.7	1734.8	3.3
113	1000 1111	1725.63	1742.7	0.7	0.7	4.6	1750.7	-7.9
114	1000 1110	1741.25	1757.8	-0.1	0.5	15.1	1766.5	-8.7
115	1000 1101	1756.88	1783.2	-0.8	-0.8	25.3	1782.4	0.8
116	1000 1100	1772.50	1793.6	0.0	-0.7	10.4	1798.2	-4.7
117	1000 1011	1788.13	1808.7	0.7	0.7	15.1	1814.1	-5.4
118	1000 1010	1803.75	1824.8	0.7	0.7	16.1	1830.0	-5.2
119	1000 1001	1819.38	1848.8	-0.8	0.0	24.0	1845.8	3.0
120	1000 1000	1835.00	1859.9	-0.4	-0.8	11.1	1861.7	-1.8
121	1000 0111	1850.63	1869.8	0.0	-0.7	9.9	1877.5	-7.7
122	1000 0110	1866.25	1885.9	0.8	0.7	16.1	1893.4	-7.5
123	1000 0101	1881.88	1908.7	0.1	0.7	22.8	1909.2	-0.5
124	1000 0100	1897.50	1927.5	-0.8	-0.7	18.8	1925.1	2.5
125	1000 0011	1913.13	1935.6	-0.5	-0.5	8.1	1941.0	-5.3
126	1000 0010	1928.75	1953.7	0.7	0.0	18.0	1956.8	-3.1
127	1000 0001	1944.38	1974.3	0.7	0.8	20.7	1972.7	1.7
128	1000 0000	1960.00	1991.3	0.0	0.8	16.9	1988.5	2.8
129	0111 1111	1975.63	2000.9	0.5	-0.8	9.6	2004.4	-3.5
130	0111 1110	1991.25	2016.7	0.1	-0.7	15.8	2020.2	-3.6

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 663

1981/11/30 15:58:27 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=5)

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
131	0111 1101	2006.88	2040.8	0.8	0.8	24.1	2036.1	4.7
132	0111 1100	2022.50	2047.7	0.7	0.7	6.9	2052.0	-4.2
133	0111 1011	2038.13	2067.4	-0.6	0.1	19.6	2067.8	-0.5
134	0111 1010	2053.75	2087.2	-0.7	-0.6	19.8	2083.7	3.5
135	0111 1001	2069.38	2108.3	0.0	-0.7	21.1	2099.5	8.8
136	0111 1000	2085.00	2111.2	0.5	0.5	2.9	2115.4	-4.2
137	0111 0111	2100.63	2127.0	-0.0	0.7	15.8	2131.2	-4.2
138	0111 0110	2116.25	2145.2	-0.7	-0.7	18.1	2147.1	-1.9
139	0111 0101	2131.88	2168.8	-0.8	-0.7	23.6	2163.0	5.9
140	0111 0100	2147.50	2183.7	0.7	-0.0	14.8	2178.8	4.9
141	0111 0011	2163.13	2193.1	0.7	0.8	9.5	2194.7	-1.5
142	0111 0010	2178.75	2216.3	0.0	0.7	23.2	2210.5	5.8
143	0111 0001	2194.38	2235.2	-0.9	-0.9	18.9	2226.4	8.8
144	0111 0000	2210.00	2243.9	-6.5	-0.7	8.7	2242.2	1.7
145	0110 1111	2225.63	2252.6	0.8	0.8	8.6	2258.1	-5.5
146	0110 1110	2241.25	2268.8	0.5	0.7	16.2	2274.0	-5.2
147	0110 1101	2256.88	2294.1	-0.7	0.0	25.3	2289.8	4.3
148	0110 1100	2272.50	2303.9	-0.7	-0.7	9.8	2305.7	-1.8
149	0110 1011	2288.13	2319.6	0.0	-0.7	15.7	2321.5	-1.9
150	0110 1010	2303.75	2339.7	0.7	0.7	20.1	2337.4	2.3
151	0110 1001	2319.38	2359.9	0.0	0.7	20.2	2353.2	6.7
152	0110 1000	2335.00	2369.8	-0.8	-0.7	9.9	2369.1	0.7
153	0110 0111	2350.63	2380.0	-0.6	-0.7	10.2	2385.0	-5.0
154	0110 0110	2366.25	2397.2	0.6	0.0	17.2	2400.8	-3.6
155	0110 0101	2381.88	2420.4	0.7	0.7	23.3	2416.7	3.8
156	0110 0100	2397.50	2438.9	0.0	0.7	18.5	2432.5	6.4
157	0110 0011	2413.13	2446.1	-0.6	-0.8	7.2	2448.4	-2.3

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 664

1981/11/30 15:58:27 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=5)

HAC TEST 527

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
158	0110 0010	2428.75	2469.6	-0.0	-0.7	23.5	2464.2	5.3
159	0110 0001	2444.38	2486.5	0.7	0.7	16.9	2480.1	6.4
160	0110 0000	2460.00	2492.9	0.6	0.6	6.4	2496.0	-3.1
161	0101 1111	2475.63	2505.9	-0.7	0.0	13.0	2511.8	-5.9
162	0101 1110	2491.25	2522.2	-0.7	-0.8	16.3	2527.7	-5.5
163	0101 1101	2506.88	2547.3	-0.0	-0.7	25.1	2543.5	3.7
164	0101 1100	2527.50	2553.0	0.8	0.8	5.7	2559.4	-6.4
165	0101 1011	2538.13	2571.6	-0.0	0.7	18.6	2575.2	-3.6
166	0101 1010	2553.75	2589.0	-0.8	-0.7	17.4	2591.1	-2.1
167	0101 1001	2569.38	2613.3	-0.6	-0.6	24.3	2607.0	6.4
168	0101 1000	2585.00	2617.4	0.7	0.1	4.1	2622.8	-5.4
169	0101 0111	2600 63	2632.0	0.6	0.7	14.6	2638.7	-6.6
170	0101 0110	2616.25	2649.5	-0.0	0.6	17.5	2654.5	-5.0
171	0101 0101	2631.88	2674.0	-0.7	-0.6	24.4	2670.4	3.6
172	0101 0100	2647.50	2690.1	0.0	-0.7	16.1	2686.2	3.8
173	0101 0011	2663.13	2698.4	0.7	0.7	8.3	2702.1	-3.7
174	0101 0010	2678.75	2717.8	0.5	0.6	19.4	2718.0	-0.2
175	0101 0001	2694.38	2740.2	-0.7	0.1	22.4	2733.8	6.4
176	0101 0000	2710.00	2752.9	-0.7	-0.7	12.6	2749.7	3.2
177	0100 1111	2725.63	2758.4	-0.0	-0.7	5.5	2765.5	-7.1
178	0100 1110	2741.25	2773.8	0.9	1.0	15.4	2781.4	-7.6
179	0100 1101	2756.88	2799.0	0.0	0.8	25.1	2797.2	1.7
180	0100 1100	2772.50	2809.5	-0.8	-0.7	10.6	2813.1	-3.6
181	0100 1011	2788.13	2824.7	-0.7	-0.7	15.2	2829.0	-4.2
182	0100 1010	2803.75	2841.2	0.8	0.1	16.5	2844.8	-3.6
183	0100 1001	2819.38	2865.1	0.7	0.8	23.9	2860.7	4.5

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 665
1981/11/30 15:58:27 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-B A/D THRESHOLD TEST (BAND= 4, SENSOR=5)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
184	0100 1000	2835.00	2875.5	-0.1	0.5	10.4	2876.5	-1.0
185	0100 0111	2850.63	2885.2	-0.8	-0.7	9.7	2892.4	-7.2
186	0100 0110	2866.25	2902.9	0.0	-0.7	17.7	2908.2	-5.3
187	0100 0101	2881.88	2925.9	0.7	0.8	22.9	2924.1	1.8
188	0100 0100	2897.50	2944.8	0.8	0.7	18.9	2940.0	4.8
189	0100 0011	2913.13	2951.7	-0.7	0.0	6.9	2955.8	-4.1
190	0100 0010	2928.75	2974.8	-0.8	-0.7	23.1	2971.7	3.1
191	0100 0001	2944.38	2992.5	-0.1	-0.4	17.7	2987.5	4.9
192	0100 0000	2960.00	3004.8	0.7	0.8	12.4	3003.4	1.4
193	0011 1111	2975.63	3010.7	0.1	0.9	5.9	3019.2	-8.5
194	0011 1110	2991.25	3027.4	-0.8	-0.8	16.6	3035.1	-7.7
195	0011 1101	3006.88	3053.5	-0.7	-0.8	26.1	3051.0	2.5
196	0011 1100	3022.50	3057.9	0.9	0.0	4.4	3066.8	-8.9
197	0011 1011	3038.13	3077.3	0.8	0.9	19.3	3082.7	-5.4
198	0011 1010	3053.75	3094.0	-0.0	0.8	16.7	3098.5	-4.6
199	0011 1001	3069.38	3119.9	-0.8	-0.8	25.9	3114.4	5.5
200	0011 1000	3085.00	3123.1	0.0	-0.7	3.2	3130.2	-7.1
201	0011 0111	3100.63	3138.2	0.6	0.7	15.1	3146.1	-7.9
202	0011 0110	3116.25	3155.6	0.7	0.8	17.3	3162.0	-6.4
203	0011 0101	3131.88	3180.9	-0.8	-0.0	25.3	3177.8	3.1
204	0011 0100	3147.50	3195.9	-0.8	-0.8	15.0	3193.7	2.2
205	0011 0011	3163.13	3205.9	-0.1	-0.7	9.9	3209.5	-3.7
206	0011 0010	3178.75	3224.1	0.7	0.7	18.3	3225.4	-1.2
207	0011 0001	3194.38	3247.0	-0.1	0.8	22.9	3241.2	5.8
208	0011 0000	3210.00	3252.4	-0.7	-0.7	5.4	3257.1	-4.7
209	0010 1111	3225.63	3265.6	-0.7	-0.7	13.2	3273.0	-7.4

ORIGINAL PAGE IS OF POOR QUALITY

1981/11/30 15:58:27 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-13 A/D THRESHOLD TEST (BAND= 4, SENSOR=15)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
210	0010 1110	3241.25	3281.1	0.8	0.0	15.6	3288.8	-7.7
211	0010 1101	3256.88	3306.9	0.7	0.8	25.8	3304.7	2.3
212	0010 1100	3272.50	3315.0	0.1	0.7	8.1	3320.5	-5.5
213	0010 1011	3288.13	3332.4	-0.8	-0.6	17.4	3336.4	-4.0
214	0010 1010	3303.75	3349.4	-0.1	-0.7	17.0	3352.2	-2.8
215	0010 1001	3319.38	3373.6	0.7	0.8	24.2	3368.1	5.5
216	0010 1000	3335.00	3379.9	0.8	0.8	6.2	3384.0	-4.1
217	0010 0111	3350.63	3393.4	-0.7	0.0	13.5	3399.8	-6.4
218	0010 0110	3366.25	3411.2	-0.8	-0.8	17.8	3415.7	-4.5
219	0010 0101	3381.88	3435.6	-0.1	-0.8	24.4	3431.5	4.1
220	0010 0100	3397.50	3453.1	0.6	0.7	17.5	3447.4	5.7
221	0010 0011	3413.13	3459.9	0.0	0.5	6.8	3463.2	-3.4
222	0010 0010	3428.75	3483.6	-0.9	-0.8	23.7	3479.1	4.5
223	0010 0001	3444.38	3502.5	-0.8	-0.8	18.9	3495.0	7.5
224	0010 0000	3460.00	3512.5	0.8	0.0	10.0	3510.8	1.7
225	0001 1111	3475.63	3520.3	0.5	0.6	7.8	3526.7	-6.4
226	0001 1110	3491.25	3536.0	-0.1	0.8	15.7	3542.5	-6.6
227	0001 1101	3506.88	3563.4	-0.9	-0.7	27.4	3558.4	5.0
228	0001 1100	3522.50	3568.7	-0.0	-0.7	5.3	3574.2	-5.5
229	0001 1011	3538.13	3587.4	0.6	0.7	18.7	3590.1	-2.7
230	0001 1010	3553.75	3603.7	0.7	0.8	16.3	3606.0	-2.3
231	0001 1001	3569.38	3630.4	-0.9	0.0	26.7	3621.8	8.6
232	0001 1000	3585.00	3634.6	-0.8	-0.8	4.2	3637.7	-3.1
233	0001 0111	3600.63	3648.8	0.6	-0.0	14.2	3653.5	-4.8
234	0001 0110	3616.25	3666.1	0.8	0.8	17.3	3669.4	-3.3
235	0001 0101	3631.88	3691.7	-0.1	0.8	25.6	3685.2	6.4
236	0001 0100	3647.50	3707.8	-0.8	-0.8	16.1	3701.1	6.7

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 667
1981/11/30 15:58:27 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.3.5-3 A/D THRESHOLD TEST (BAND= 4 , SENSOR=5)

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
237	0001 0011	3663.13	3716.9	-0.7	-0.7	9.0	3717.0	-0.1
238	0001 0010	3678.75	3735.3	0.7	0.0	18.4	3732.8	2.5
239	0001 0001	3694.38	3758.3	0.5	0.6	23.0	3748.7	9.6
240	0001 0000	3710.00	3774.6	-0.8	0.0	16.4	3764.5	10.1
241	0000 1111	3725.63	3777.1	-0.7	-0.7	7.5	3780.4	-3.2
242	0000 1110	3741.25	3793.6	-0.1	-0.8	16.5	3796.2	-2.6
243	0000 1101	3756.88	3819.1	0.6	0.7	25.5	3812.1	7.0
244	0000 1100	3772.50	3827.7	0.7	0.7	8.6	3828.0	-0.2
245	0000 1011	3788.13	3844.5	-1.0	0.0	16.8	3843.8	0.7
246	0000 1010	3803.75	3861.5	-0.8	-0.8	17.0	3859.7	1.8
247	0000 1001	3819.38	3886.1	0.7	0.0	24.6	3875.5	10.6
248	0000 1000	3835.00	3897.0	0.7	0.6	10.9	3891.4	5.6
249	0000 0111	3850.63	3905.4	-0.1	0.7	8.3	3907.2	-1.9
250	0000 0110	3866.25	3923.9	-0.8	-0.6	18.5	3923.1	0.8
251	0000 0101	3881.88	3949.2	-0.9	-0.6	25.3	3939.0	10.3
252	0000 0100	3897.50	3966.5	0.6	0.1	17.2	3954.8	11.7
253	0000 0011	3913.13	3973.1	0.6	0.7	6.6	3970.7	2.4
254	0000 0010	3928.75	3994.3	-0.8	-0.0	21.2	3986.5	7.8
255	0000 0001	3944.38	4016.0	-1.0	-0.8	21.7	4002.4	13.6

ORIGINAL PAGE IS
OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 668
1981/11/30 16:04:49 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.3.5-6 A/D THRESHOLD TEST (BAND= 4 , SENSOR=6

HAC TEST S27

NOV 30 '81

S U M M A R Y

CHECK 1) RMS ERROR, 2) THRESHOLD INCREMENT(+/- 0.0 <= THRH INC <= 31.2)
THE REMAINING DATA ARE FOR INFORMATION ONLY

FIRST FIT STRAIGHT LINE IS: Y =15.835X -43.3MV

DEVIATION OF SLOPE FROM IDEAL IS: 1.346%
OFFSET IS:-43.3MV
COEFFICIENT OF DETERMINATION IS: R**2= .99998630
ANALOG INPUT DURING DC RESTORE IS:64.5MV

RMS ERROR = 4.7648MV REQMT: RMS ERROR <= 7.8122MV

THRESHOLD INCREMENT MEASUREMENT

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
26.8MV	195	15.890MV	1.8MV	241	5.977MV

LOWER LIMIT AT OUTPUT LEVELS RATIO = 1 : 1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
1.6MV	13	-0.037MV	-2.8MV	191	.646MV

UPPER LIMIT AT OUTPUT LEVELS RATIO = 1 : 1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
3.7MV	65	0.042MV	-0.9MV	186	.681MV

TEST PASSED

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 669
1981/11/30 16:05:03 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=6)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
THE FOLLOWING DATA ARE FOR INFORMATION ONLY								
1	1111 1111	-24.375	-30.5	-0.5	-0.6		-27.5	-3.0
2	1111 1110	-8.750	-19.1	0.6	0.8	11.3	-11.6	-7.5
3	1111 1101	6.875	4.7	0.6	0.7	23.9	4.2	0.5
4	1111 1100	22.500	18.0	-0.7	-0.6	13.3	20.0	-2.0
5	1111 1011	38.125	36.0	-0.8	-0.7	18.0	35.9	0.1
6	1111 1010	53.750	49.2	0.6	0.0	13.2	51.7	-2.5
7	1111 1001	69.375	71.6	0.6	0.7	22.3	67.6	4.0
8	1111 1000	85.000	76.5	-0.0	0.7	4.9	83.4	-6.9
9	1111 0111	100.625	97.7	-0.8	-0.7	21.2	99.2	-1.5
10	1111 0110	116.250	111.5	-0.6	-0.6	13.8	115.1	-3.6
11	1111 0101	131.875	133.1	0.6	0.7	21.6	130.9	2.2
12	1111 0100	147.500	148.6	0.5	0.6	15.5	146.7	1.9
13	1111 0011	163.125	161.5	1.6	2.2	12.9	162.6	-1.1
14	1111 0010	178.750	180.0	-0.7	-0.7	18.5	178.4	1.6
15	1111 0001	194.375	200.0	-0.1	-0.6	20.0	194.2	5.7
16	1111 0000	210.000	209.2	0.6	0.6	9.2	210.1	-0.9
17	1110 1111	225.625	223.8	0.7	0.7	14.7	225.9	-2.1
18	1110 1110	241.250	236.9	-0.7	-0.6	13.0	241.7	-4.9
19	1110 1101	256.875	260.5	-0.7	-0.7	23.6	257.6	2.9
20	1110 1100	272.500	275.1	0.6	0.0	14.7	273.4	1.7
21	1110 1011	288.125	290.3	0.6	0.6	15.1	289.2	1.0
22	1110 1010	303.750	304.6	-0.1	0.6	14.3	305.1	-0.5
23	1110 1001	319.375	327.0	-0.7	-0.7	22.4	320.9	6.1
24	1110 1000	335.000	336.2	-0.6	-0.6	9.2	336.8	-0.5
25	1110 0111	350.625	351.8	0.6	0.7	15.5	352.6	-0.8

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 670
1981/11/30 16:05:03 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

HAC TEST S27

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=6)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
26	1110 0110	366.250	366.1	0.6	0.6	14.3	368.4	-2.3
27	1110 0101	381.875	388.5	-0.7	-0.0	22.4	384.3	4.3
28	1110 0100	397.500	407.3	-0.7	-0.6	18.7	400.1	7.2
29	1110 0011	413.125	415.9	-0.0	-0.6	8.6	415.9	-0.0
30	1110 0010	428.750	434.5	0.6	0.6	18.6	431.8	2.7
31	1110 0001	444.375	453.9	0.6	0.7	19.4	447.6	6.3
32	1110 0000	460.000	459.6	-0.7	-0.7	5.7	463.4	-3.9
33	1101 1111	475.625	479.8	-0.7	-0.6	20.2	479.3	0.5
34	1101 1110	491.250	490.7	0.6	-0.0	10.9	495.1	-4.4
35	1101 1101	506.875	514.9	0.6	0.7	24.2	510.9	4.0
36	1101 1100	522.500	527.7	-0.0	0.6	12.8	526.8	0.9
37	1101 1011	538.125	542.9	-0.7	-0.6	15.1	542.6	0.3
38	1101 1010	553.750	559.4	-0.7	-0.7	16.5	558.4	1.0
39	1101 1001	569.375	581.4	0.5	0.6	22.0	574.3	7.1
40	1101 1000	585.000	588.6	0.6	0.7	7.2	590.1	-1.6
41	1101 0111	600.625	607.4	-0.7	-0.0	18.8	606.0	1.5
42	1101 0110	616.250	620.9	-0.7	-0.7	13.4	621.8	-0.9
43	1101 0101	631.875	643.2	-0.0	-0.6	22.3	637.6	5.6
44	1101 0100	647.500	658.6	0.6	0.6	15.4	653.5	5.1
45	1101 0011	663.125	669.7	0.7	0.6	11.1	669.3	0.4
46	1101 0010	678.750	689.1	-0.7	-0.7	19.4	685.1	3.9
47	1101 0001	694.375	709.1	-0.7	-0.6	20.0	701.0	8.1
48	1101 0000	710.000	721.7	0.6	0.0	12.6	716.8	4.9
49	1100 1111	725.625	732.9	0.6	0.7	11.2	732.6	0.2
50	1100 1110	741.250	744.8	-0.0	0.6	11.9	748.5	-3.7
51	1100 1101	756.875	769.2	-0.6	-0.6	24.4	764.3	4.9

ORIGINAL PAGE IS OF POOR QUALITY

C-8

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 671
1981/11/30 16:05:03 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=6)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
52	1100 1100	772.500	781.3	-0.6	-0.6	12.1	780.1	1.2
53	1100 1011	788.125	795.6	0.6	0.7	14.3	796.0	-0.4
54	1100 1010	803.750	812.6	0.6	0.6	17.0	811.8	0.8
55	1100 1001	819.375	835.1	-0.6	0.0	22.5	827.6	7.4
56	1100 1000	835.000	847.1	-0.7	-0.7	12.0	843.5	3.7
57	1100 0111	850.625	860.5	-0.0	-0.6	13.4	859.3	1.2
58	1100 0110	866.250	873.6	0.7	0.6	13.1	875.2	-1.6
59	1100 0101	881.875	895.3	0.7	0.7	21.7	891.0	4.3
60	1100 0100	897.500	915.1	-0.7	-0.6	19.8	906.8	8.2
61	1100 0011	913.125	923.0	-0.7	-0.7	8.0	922.7	0.4
62	1100 0010	928.750	941.3	0.7	0.0	18.3	938.5	2.9
63	1100 0001	944.375	960.9	0.6	0.7	19.5	954.3	6.6
64	1100 0000	960.000	970.8	0.0	0.7	9.9	970.2	0.6
65	1011 1111	975.625	982.9	-0.6	3.7	12.1	986.0	-3.1
66	1011 1110	991.250	997.7	-0.8	-0.7	14.8	1001.8	-4.1
67	1011 1101	1006.88	1022.0	0.7	0.7	24.3	1017.7	4.3
68	1011 1100	1022.50	1034.1	0.6	0.6	12.1	1033.5	0.6
69	1011 1011	1038.13	1049.1	-0.7	-0.1	15.0	1049.3	-0.3
70	1011 1010	1053.75	1064.9	-0.7	-0.7	15.8	1065.2	-0.3
71	1011 1001	1069.38	1088.8	0.0	-0.6	23.9	1081.0	7.8
72	1011 1000	1085.00	1091.8	0.7	0.7	2.9	1096.8	-5.1
73	1011 0111	1100.63	1108.8	0.0	0.7	17.1	1112.7	-3.9
74	1011 0110	1116.25	1126.2	-0.7	-0.7	17.3	1128.5	-2.4
75	1011 0101	1131.88	1149.3	-0.6	-0.6	23.1	1144.4	4.9
76	1011 0100	1147.50	1163.4	0.5	-0.1	14.1	1160.2	3.2
77	1011 0011	1163.13	1175.0	0.6	0.6	11.6	1176.0	-1.1
78	1011 0010	1178.75	1193.2	-0.0	0.6	18.2	1191.9	1.3

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 672

1981/11/30 16:05:03 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=6)

HAC TEST 527

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
79	1011 0001	1194.38	1215.1	-0.7	-0.7	21.9	1207.7	7.4
80	1011 0000	1210.00	1221.8	0.0	-0.7	6.7	1223.5	-1.7
81	1010 1111	1225.63	1234.4	0.6	0.6	12.5	1239.4	-5.0
82	1010 1110	1241.25	1249.3	0.7	0.7	15.0	1255.2	-5.9
83	1010 1101	1256.88	1274.7	-0.7	-0.0	25.3	1271.0	3.7
84	1010 1100	1272.50	1284.6	-0.6	-0.6	9.9	1286.9	-2.3
85	1010 1011	1288.13	1300.9	0.0	-0.6	16.3	1302.7	-1.8
86	1010 1010	1303.75	1316.7	0.7	0.7	15.8	1318.5	-1.8
87	1010 1001	1319.38	1339.9	0.0	0.7	23.2	1334.4	5.5
88	1010 1000	1335.00	1349.5	-0.6	-0.7	9.6	1350.2	-0.7
89	1010 0111	1350.63	1361.3	-0.7	-0.6	11.8	1366.0	-4.8
90	1010 0110	1366.25	1377.6	0.6	-0.0	16.3	1381.9	-4.3
91	1010 0101	1381.88	1400.5	0.7	0.7	22.9	1397.7	2.8
92	1010 0100	1397.50	1418.5	0.0	0.6	18.0	1413.6	5.0
93	1010 0011	1413.13	1427.2	-0.6	-0.7	8.7	1429.4	-2.1
94	1010 0010	1428.75	1446.0	-0.1	-0.7	18.8	1445.2	0.8
95	1010 0001	1444.38	1465.9	0.7	0.7	19.9	1461.1	4.9
96	1010 0000	1460.00	1473.6	0.6	0.7	7.7	1476.9	-3.3
97	1001 1111	1475.63	1487.2	-0.7	-0.1	13.6	1492.7	-5.5
98	1001 1110	1491.25	1501.7	-0.6	-0.6	14.5	1508.6	-6.8
99	1001 1101	1506.88	1526.8	-0.1	-0.7	25.1	1524.4	2.4
100	1001 1100	1522.50	1533.4	0.7	0.6	6.6	1540.2	-6.8
101	1001 1011	1538.13	1552.3	0.0	0.7	18.9	1556.1	-3.7
102	1001 1010	1553.75	1568.7	-0.7	-0.7	16.3	1571.9	-3.3
103	1001 1001	1569.38	1592.7	-0.7	-0.7	24.0	1587.7	5.0
104	1001 1000	1585.00	1598.1	0.8	0.0	5.4	1603.6	-5.5

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 673

1981/11/30 16:05:03 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=6)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
105	1001 0111	1600.63	1613.1	-0.0	0.0	15.0	1619.4	-6.3
106	1001 0110	1616.25	1629.2	-0.0	0.9	16.0	1635.2	-6.1
107	1001 0101	1631.88	1653.4	-0.6	-0.6	24.2	1651.1	2.3
108	1001 0100	1647.50	1668.4	0.0	-0.7	15.0	1666.9	1.5
109	1001 0011	1663.13	1678.8	0.6	0.6	10.4	1682.8	-4.0
110	1001 0010	1678.75	1696.9	0.6	0.7	18.1	1698.6	-1.6
111	1001 0001	1694.38	1718.8	-0.8	0.0	21.9	1714.4	4.4
112	1001 0000	1710.00	1734.8	-0.8	-0.7	15.9	1730.3	4.5
113	1000 1111	1725.63	1738.9	0.1	-0.7	4.1	1746.1	-7.2
114	1000 1110	1741.25	1753.2	0.6	0.6	14.3	1761.9	-8.8
115	1000 1101	1756.88	1777.9	0.0	0.7	24.7	1777.8	0.1
116	1000 1100	1772.50	1789.0	-0.7	-0.7	11.1	1793.6	-4.6
117	1000 1011	1788.13	1804.6	-0.8	-0.7	15.6	1809.4	-4.8
118	1000 1010	1803.75	1820.4	0.6	0.0	15.8	1825.3	-4.9
119	1000 1001	1819.38	1843.5	0.6	0.6	23.1	1841.1	2.4
120	1000 1000	1835.00	1855.6	0.0	0.7	12.1	1856.9	-1.3
121	1000 0111	1850.63	1865.1	-0.6	-0.6	9.4	1872.8	-7.7
122	1000 0110	1866.25	1881.8	0.0	-0.7	16.8	1888.6	-6.8
123	1000 0101	1881.88	1904.4	0.7	0.6	22.5	1904.4	-0.1
124	1000 0100	1897.50	1922.6	0.6	0.6	18.3	1920.3	2.4
125	1000 0011	1913.13	1930.8	-0.6	0.0	8.1	1936.1	-5.3
126	1000 0010	1928.75	1949.5	-0.8	-0.7	18.7	1952.0	-2.4
127	1000 0001	1944.38	1970.0	0.1	-0.6	20.5	1967.8	2.3
128	1000 0000	1960.00	1986.5	0.7	0.6	16.4	1983.6	2.9
129	0111 1111	1975.63	1995.2	-0.0	0.7	8.7	1999.5	-4.2
130	0111 1110	1991.25	2011.8	-0.8	-0.8	16.6	2015.3	-3.5

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 674

1981/11/30 16:05:03 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=6

HAC TEST S27

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
131	0111 1101	2006.88	2036.8	-0.7	-0.7	25.0	2031.1	5.7
132	0111 1100	2022.50	2042.8	0.7	-0.0	6.0	2047.0	-4.1
133	0111 1011	2038.13	2061.6	0.7	0.6	18.7	2062.8	-1.2
134	0111 1010	2053.75	2080.8	0.0	0.6	19.2	2078.6	2.1
135	0111 1001	2069.38	2103.3	-0.7	-0.7	22.5	2094.5	8.8
136	0111 1000	2085.00	2107.2	-0.0	-0.6	3.9	2110.3	-3.1
137	0111 0111	2100.63	2121.9	0.6	0.6	14.7	2126.1	-4.2
138	0111 0110	2116.25	2139.4	0.6	0.6	17.5	2142.0	-2.5
139	0111 0101	2131.88	2163.6	-0.7	-0.0	24.2	2157.8	5.8
140	0111 0100	2147.50	2179.5	-0.7	-0.7	15.8	2173.6	5.8
141	0111 0011	2163.13	2188.8	0.0	-0.7	9.3	2189.5	-0.7
142	0111 0010	2178.75	2211.0	0.7	0.6	22.2	2205.3	5.6
143	0111 0001	2194.38	2229.3	-0.0	0.6	18.3	2221.2	8.1
144	0111 0000	2210.00	2239.3	-0.7	-0.7	10.0	2237.0	2.3
145	0110 1111	2225.63	2247.9	-0.6	-0.6	8.6	2252.8	-4.9
146	0110 1110	2241.25	2263.4	0.7	-0.0	15.4	2268.7	-5.3
147	0110 1101	2256.88	2288.2	0.7	0.6	24.9	2284.5	3.7
148	0110 1100	2272.50	2297.8	0.0	0.6	9.5	2300.3	-2.6
149	0110 1011	2288.13	2314.1	-0.6	-0.6	16.3	2316.2	-2.1
150	0110 1010	2303.75	2334.7	-0.1	-0.7	20.6	2332.0	2.6
151	0110 1001	2319.38	2354.5	0.7	0.7	19.9	2347.8	6.7
152	0110 1000	2335.00	2361.0	0.6	0.7	6.5	2363.7	-2.6
153	0110 0111	2350.63	2374.4	-0.7	-0.1	13.4	2379.5	-5.1
154	0110 0110	2366.25	2392.3	-0.7	-0.7	17.9	2395.3	-3.0
155	0110 0101	2381.88	2414.8	0.7	0.1	22.5	2411.2	3.6
156	0110 0100	2397.50	2433.8	0.6	0.6	19.0	2427.0	6.8
157	0110 0011	2413.13	2439.9	-0.1	0.6	6.1	2442.8	-3.0

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 675
1981/11/30 16:05:03 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=5)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
158	0110 0010	2428.75	2460.0	-0.7	-0.6	20.1	2458.7	1.3
159	0110 0001	2444.38	2481.5	-0.7	-0.6	21.5	2474.5	7.0
160	0110 0000	2460.00	2487.4	0.7	-0.0	5.9	2490.4	-2.9
161	0101 1111	2475.63	2499.6	0.7	0.6	12.1	2506.2	-6.6
162	0101 1110	2491.25	2515.9	-0.7	0.0	16.3	2522.0	-6.1
163	0101 1101	2506.88	2541.4	-0.8	-0.7	25.5	2537.9	3.5
164	0101 1100	2522.50	2548.0	-0.0	-0.6	6.6	2553.7	-5.7
165	0101 1011	2538.13	2565.7	0.7	0.7	17.7	2569.5	-3.8
166	0101 1010	2553.75	2582.1	0.7	0.7	16.4	2585.4	-3.2
167	0101 1001	2569.38	2607.7	-0.7	-0.1	25.6	2601.2	6.5
168	0101 1000	2585.00	2612.4	-0.7	-0.6	4.7	2617.0	-4.6
169	0101 0111	2600.63	2626.1	0.7	0.0	13.6	2632.9	-6.8
170	0101 0110	2616.25	2643.7	0.6	0.6	17.6	2648.7	-5.0
171	0101 0101	2631.88	2667.4	-0.0	0.6	23.7	2664.5	2.9
172	0101 0100	2647.50	2684.2	-0.6	-0.6	16.8	2680.4	3.9
173	0101 0011	2663.13	2693.1	-0.8	-0.7	8.8	2696.2	-3.1
174	0101 0010	2678.75	2712.2	0.6	3.0	19.1	2712.0	0.1
175	0101 0001	2694.38	2733.6	0.7	0.7	21.4	2727.9	5.7
176	0101 0000	2710.00	2747.6	-0.7	-0.0	14.0	2743.7	3.8
177	0100 1111	2725.63	2752.3	-0.7	-0.7	4.8	2759.6	-7.3
178	0100 1110	2741.25	2768.2	0.1	-0.7	15.9	2775.4	-7.2
179	0100 1101	2756.88	2792.9	0.6	0.6	24.6	2791.2	1.6
180	0100 1100	2772.50	2802.6	0.7	0.7	9.8	2807.1	-4.4
181	0100 1011	2788.13	2818.4	-0.7	-0.0	15.8	2822.9	-4.4
182	0100 1010	2803.75	2835.7	-0.7	-0.6	17.2	2838.7	-3.0
183	0100 1001	2819.38	2859.0	0.7	0.0	23.3	2854.6	4.5

ORIGINAL PAGE IS
OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 676

1981/11/30 16:05:03 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=6)

HAC TEST S27

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
184	0100 1000	2835.00	2871.5	0.8	0.9	12.5	2870.4	1.1
185	0100 0111	2850.63	2878.1	0.0	0.6	6.6	2886.2	-8.1
186	0100 0110	2866.25	2896.8	-0.9	-0.9	18.6	2902.1	-5.3
187	0100 0101	2881.88	2920.2	-0.6	-0.6	23.5	2917.9	2.3
188	0100 0100	2897.50	2939.0	0.6	0.0	18.7	2933.7	5.2
189	0100 0011	2913.13	2944.6	0.6	0.6	5.6	2949.6	-5.0
190	0100 0010	2928.75	2968.3	-0.2	0.2	23.7	2965.4	2.9
191	0100 0001	2944.38	2986.3	-2.8	-0.7	18.0	2981.2	5.1
192	0100 0000	2960.00	2999.9	0.0	-0.6	13.5	2997.1	2.8
193	0011 1111	2975.63	3004.4	0.7	0.7	4.6	3012.9	-8.5
194	0011 1110	2991.25	3019.9	0.8	0.7	15.5	3028.8	-8.8
195	0011 1101	3006.88	3046.7	-0.8	0.1	26.8	3044.6	2.1
196	0011 1100	3022.50	3052.2	-0.7	-0.7	5.5	3060.4	-8.2
197	0011 1011	3038.13	3070.8	0.7	-0.0	18.6	3076.3	-5.4
198	0011 1010	3053.75	3087.0	0.7	0.7	16.2	3092.1	-5.1
199	0011 1001	3069.38	3112.7	-0.1	0.6	25.7	3107.9	4.8
200	0011 1000	3085.00	3117.1	-0.7	-0.6	4.4	3123.8	-6.7
201	0011 0111	3100.63	3132.3	-0.6	-0.6	15.1	3139.6	-7.3
202	0011 0110	3116.25	3149.0	0.7	0.0	16.7	3155.4	-6.4
203	0011 0101	3131.88	3173.7	0.6	0.7	24.7	3171.3	2.4
204	0011 0100	3147.50	3189.6	-0.7	-0.0	15.9	3187.1	2.5
205	0011 0011	3163.13	3199.0	-0.6	-0.7	9.4	3202.9	-3.9
206	0011 0010	3178.75	3218.4	-0.0	-0.6	19.3	3218.8	-0.4
207	0011 0001	3194.38	3240.3	0.6	0.7	21.9	3234.6	5.7
208	0011 0000	3210.00	3244.9	0.8	0.7	4.6	3250.4	-5.6
209	0010 1111	3225.63	3258.5	-0.4	0.0	13.6	3266.3	-7.8

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 677
1981/11/30 16:05:03 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=6

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
210	0010 1110	3241.25	3274.6	-0.8	-0.6	16.1	3282.1	-7.5
211	0010 1101	3256.88	3300.0	0.6	-0.0	25.4	3298.0	2.1
212	0010 1100	3272.50	3308.4	0.7	0.7	8.3	3313.8	-5.4
213	0010 1011	3288.13	3324.7	0.0	0.8	16.3	3329.6	-5.0
214	0010 1010	3303.75	3342.4	-0.7	-0.6	17.8	3345.5	-3.0
215	0010 1001	3319.38	3367.5	-0.8	-0.6	25.1	3361.3	6.2
216	0010 1000	3335.00	3373.2	0.7	0.1	5.7	3377.1	-3.9
217	0010 0111	3350.63	3385.7	0.6	0.6	12.5	3393.0	-7.2
218	0010 0110	3366.25	3404.0	-0.6	0.0	18.2	3408.8	-4.8
219	0010 0101	3381.88	3428.8	-0.7	-0.8	24.8	3424.6	4.1
220	0010 0100	3397.50	3447.2	-0.1	-0.8	18.4	3440.5	6.7
221	0010 0011	3413.13	3452.7	0.7	0.8	5.5	3456.3	-3.6
222	0010 0010	3428.75	3476.4	0.6	0.6	23.7	3472.1	4.3
223	0010 0001	3444.38	3495.5	-0.8	0.0	19.0	3488.0	7.5
224	0010 0000	3460.00	3506.6	-0.8	-0.7	11.1	3503.8	2.8
225	0001 1111	3475.63	3513.3	0.6	0.0	6.7	3519.7	-6.4
226	0001 1110	3491.25	3529.0	0.4	0.6	15.7	3535.5	-6.5
227	0001 1101	3506.88	3555.3	-0.2	0.8	26.3	3551.3	4.0
228	0001 1100	3522.50	3561.7	-0.7	-0.7	6.3	3567.2	-5.5
229	0001 1011	3538.13	3580.9	-0.8	-0.6	19.2	3583.0	-2.1
230	0001 1010	3553.75	3596.3	0.6	0.0	15.4	3598.8	-2.5
231	0001 1001	3569.38	3622.6	0.6	0.7	26.2	3614.7	7.9
232	0001 1000	3585.00	3627.6	-0.8	0.0	5.0	3630.5	-2.9
233	0001 0111	3600.63	3642.2	-0.7	-0.7	14.5	3646.3	-4.2
234	0001 0110	3616.25	3659.7	-0.0	-0.7	17.5	3662.2	-2.5
235	0001 0101	3631.88	3684.3	0.6	0.7	24.6	3678.0	6.3
236	0001 0100	3647.50	3699.5	0.7	0.7	15.3	3693.8	5.7

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 678
1981/11/30 16:05:03 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.3.5-B A/D THRESHOLD TEST (BAND= 4 , SENSOR=6) 10 30 81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
237	0001 0011	3663.13	3709.5	-0.7	0.0	10.0	3709.7	-0.2
238	0001 0010	3678.75	3729.1	-0.8	-0.5	19.6	3725.5	3.6
239	0001 0001	3694.38	3748.8	0.6	0.0	19.7	3741.3	7.5
240	0001 0000	3710.00	3767.4	0.6	0.6	18.5	3757.2	10.2
241	0000 1111	3725.63	3769.2	-0.0	0.7	1.8	3773.0	-3.8
242	0000 1110	3741.25	3785.7	-0.8	-0.7	16.5	3788.9	-3.1
243	0000 1101	3756.88	3812.2	-0.7	-0.6	26.5	3804.7	7.5
244	0000 1100	3772.50	3820.3	0.6	0.7	8.1	3820.5	-0.2
245	0000 1011	3788.13	3836.3	0.6	0.7	16.0	3836.4	-0.1
246	0000 1010	3803.75	3854.2	-0.8	-0.0	17.9	3852.2	2.0
247	0000 1001	3819.38	3879.6	-0.8	-0.7	25.4	3868.0	11.5
248	0000 1000	3835.00	3893.2	-0.1	-0.6	13.6	3883.9	9.3
249	0000 0111	3850.63	3897.9	0.7	0.7	4.7	3899.7	-1.8
250	0000 0110	3866.25	3915.7	0.5	0.6	17.8	3915.5	0.2
251	0000 0101	3881.88	3941.6	-0.9	-0.7	25.9	3931.4	10.2
252	0000 0100	3897.50	3960.3	-0.7	-0.6	18.6	3947.2	13.0
253	0000 0011	3913.13	3965.4	0.7	-0.1	5.1	3963.0	2.3
254	0000 0010	3928.75	3986.5	-2.2	0.6	21.2	3978.9	7.7
255	0000 0001	3944.38	4005.7	-0.2	0.6	19.1	3994.7	11.0

ORIGINAL PAGE IS
OF POOR QUALITY

HS-206 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 679
1981/11/30 16:11:25 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-B A/D THRESHOLD TEST (BAND= 4, SENSOR=7) 10/30/81

S U M M A R Y

CHECK 1) RMS ERROR, 2) THRESHOLD INCREMENT(+/- 0.0 <= THRH INC <= 31.2)
THE REMAINING DATA ARE FOR INFORMATION ONLY

BEST FIT STRAIGHT LINE IS: Y =15.862X -40.7MV

DEVIATION OF SLOPE FROM IDEAL IS: 1.519%
OFFSET IS:-40.7MV
COEFFICIENT OF DETERMINATION IS: R**2= .99998310
ANALOG INPUT DURING DC RESTORE IS:64.4MV

RMS ERROR = 4.496MV REQMT: RMS ERROR <=7.812MV

THRESHOLD INCREMENT MEASUREMENT

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
27.8MV	229	15.915MV	3.0MV	241	5.607MV

LOWER LIMIT AT OUTPUT LEVELS RATIO = 1 : 1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
1.0MV	124	-0.238MV	-7.4MV	245	1.110MV

UPPER LIMIT AT OUTPUT LEVELS RATIO = 1 : 1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
5.9MV	249	0.072MV	-1.0MV	178	.931MV

TEST PASSED

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 680

1981/11/30 16:11:39 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=7)

HAC TEST 527

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
THE FOLLOWING DATA ARE FOR INFORMATION ONLY								
1	1111 1111	-24.375	-27.8	-1.5	-0.7		-24.8	-3.0
2	1111 1110	-8.750	-15.6	-0.8	-0.8	12.3	-9.0	-6.6
3	1111 1101	6.875	7.4	0.7	0.0	23.0	6.9	0.5
4	1111 1100	22.500	19.7	0.8	0.7	12.3	22.8	-3.1
5	1111 1011	38.125	38.3	-0.8	0.0	18.6	38.6	-0.3
6	1111 1010	53.750	52.3	-0.8	-0.8	13.9	54.5	-2.2
7	1111 1001	69.375	74.7	-0.1	-0.8	22.4	70.3	4.3
8	1111 1000	85.000	79.4	0.7	0.7	4.7	86.2	-6.8
9	1111 0111	100.625	99.5	0.8	0.8	20.1	102.1	-2.6
10	1111 0110	116.250	114.7	-0.9	-0.0	15.2	117.9	-3.2
11	1111 0101	131.875	136.3	-0.9	-0.8	21.6	133.8	2.5
12	1111 0100	147.500	151.2	0.8	-0.1	14.8	149.7	1.5
13	1111 0011	163.125	165.5	0.8	0.8	14.3	165.5	-0.0
14	1111 0010	178.750	181.9	-0.1	0.8	16.4	181.4	0.5
15	1111 0001	194.375	202.7	-0.9	-0.8	20.8	197.2	5.5
16	1111 0000	210.000	211.7	-0.8	-0.8	9.0	213.1	-1.4
17	1110 1111	225.625	226.8	0.7	0.0	15.0	229.0	-2.2
18	1110 1110	241.250	239.4	0.7	0.7	12.6	244.8	-5.4
19	1110 1101	256.875	263.6	-0.9	-0.0	24.2	260.7	2.9
20	1110 1100	272.500	278.8	-0.8	-0.8	15.2	276.6	2.2
21	1110 1011	288.125	293.7	-0.1	-0.8	14.9	292.4	1.3
22	1110 1010	303.750	307.2	0.8	0.8	13.5	308.3	-1.0
23	1110 1001	319.375	329.1	0.8	0.8	21.8	324.1	4.9
24	1110 1000	335.000	340.0	-0.8	-0.1	10.9	340.0	-0.0
25	1110 0111	350.625	355.5	-0.8	-0.8	15.5	355.9	-0.3

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 681

1981/11/30 16:11:39 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=2)

HAC TEST 527 NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAICHT LINE POINT	DEVIATION
26	1110 0110	366.250	369.5	0.7	0.0	13.9	371.7	-2.2
27	1110 0101	381.875	390.7	0.7	0.8	21.2	387.6	3.1
28	1110 0100	397.500	409.4	-0.1	0.8	18.7	403.5	6.0
29	1110 0011	413.125	421.4	-0.9	-0.9	11.9	419.3	2.0
30	1110 0010	428.750	438.2	-0.8	-0.8	16.9	435.2	3.1
31	1110 0001	444.375	457.0	0.7	0.0	18.7	451.0	5.9
32	1110 0000	460.000	461.3	0.7	0.7	4.4	466.9	-5.6
33	1101 1111	475.625	483.2	-0.9	0.0	21.9	482.8	0.5
34	1101 1110	491.250	495.0	-0.8	-0.8	11.8	498.6	-3.6
35	1101 1101	506.875	519.1	-0.1	-0.8	24.0	514.5	4.6
36	1101 1100	522.500	530.8	0.8	0.8	11.7	530.4	0.5
37	1101 1011	538.125	548.5	0.8	0.9	17.6	546.2	2.3
38	1101 1010	553.750	562.8	-0.9	-0.0	14.3	562.1	0.7
39	1101 1001	569.375	585.3	-0.9	-0.8	22.6	577.9	7.4
40	1101 1000	585.000	592.2	0.6	-0.0	6.8	593.8	-1.6
41	1101 0111	600.625	610.2	0.7	0.8	18.1	609.7	0.6
42	1101 0110	616.250	624.0	0.0	0.8	13.8	625.5	-1.5
43	1101 0101	631.875	646.6	-0.9	-0.8	22.6	641.4	5.2
44	1101 0100	647.500	662.7	-0.8	-0.8	16.0	657.2	5.4
45	1101 0011	663.125	673.8	0.8	0.0	11.1	673.1	0.7
46	1101 0010	678.750	691.6	0.8	0.8	17.8	689.0	2.7
47	1101 0001	694.375	712.7	-0.8	0.0	21.1	704.8	7.9
48	1101 0000	710.000	724.9	-0.7	-0.7	12.2	720.7	4.2
49	1100 1111	725.625	737.4	0.0	-0.8	12.4	736.6	0.8
50	1100 1110	741.250	748.7	0.8	0.7	11.4	752.4	-3.7
51	1100 1101	756.875	772.2	0.7	0.7	23.4	768.3	3.9

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL .. FLT. S/N 3 PAGE 682 1/4

1981/11/30 16:11:39 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5--B A/D THRESHOLD TEST (BAND= 4, SENSOR=7) (V3.0)

HAC TEST 527

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
52	1100 1100	772.500	765.2	-0.8	-0.1	13.0	784.1	1.1
53	1100 1011	788.125	800.5	-0.8	1.8	15.3	800.0	0.5
54	1100 1010	803.750	816.1	0.8	-0.0	15.6	815.9	0.2
55	1100 1001	819.375	838.1	0.7	0.9	22.0	831.7	6.3
56	1100 1000	835.000	850.7	-0.0	0.7	12.7	847.6	3.1
57	1100 0111	850.625	864.5	-0.8	-0.8	13.8	863.5	1.1
58	1100 0110	866.250	878.6	-0.8	-0.9	14.0	879.3	-0.7
59	1100 0101	881.875	898.9	0.8	0.0	20.3	895.2	3.7
60	1100 0100	897.500	919.1	0.8	0.8	19.1	911.0	7.0
61	1100 0011	913.125	927.6	-0.8	-0.1	9.5	926.9	0.7
62	1100 0010	928.750	945.9	-0.8	-0.8	18.3	942.8	3.2
63	1100 0001	944.375	965.6	0.0	-0.8	19.7	958.6	7.0
64	1100 0000	960.000	973.5	0.7	0.7	7.9	974.5	-1.0
65	1011 1111	975.625	990.7	0.8	0.8	17.2	990.4	0.3
66	1011 1110	991.250	1002.2	-0.8	-0.0	11.5	1006.2	-4.0
67	1011 1101	1006.88	1026.8	-0.8	-0.8	24.6	1022.1	4.7
68	1011 1100	1022.50	1037.7	0.8	-0.0	10.9	1037.9	-0.3
69	1011 1011	1038.13	1055.8	0.8	0.7	18.1	1053.8	2.0
70	1011 1010	1053.75	1069.8	-0.1	0.8	14.0	1069.7	0.1
71	1011 1001	1069.38	1093.0	-0.8	-0.8	23.2	1085.5	7.5
72	1011 1000	1085.00	1096.9	-0.7	-0.8	3.8	1101.4	-4.5
73	1011 0111	1100.63	1117.5	-3.5	-0.1	20.6	1117.3	0.3
74	1011 0110	1116.25	1130.1	0.8	0.9	12.5	1133.1	-3.1
75	1011 0101	1131.88	1153.9	-0.8	0.0	23.8	1149.0	4.9
76	1011 0100	1147.50	1168.2	-0.8	-0.8	14.4	1164.8	3.4
77	1011 0011	1163.13	1183.2	0.0	-0.8	15.0	1180.7	2.5
78	1011 0010	1178.75	1197.2	0.8	0.8	14.0	1196.6	0.7

ORIGINAL PAGE IS OF POOR QUALITY

1981/11/30 16:11:39 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
1.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=7)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
79	1011 0001	1194.38	1218.7	0.8	0.8	21.4	1212.4	6.2
80	1011 0000	1210.00	1230.8	-0.8	0.0	12.1	1228.3	2.5
81	1010 1111	1225.63	1243.9	-0.8	-0.0	13.1	1244.2	-0.3
82	1010 1110	1241.25	1254.1	0.8	-0.0	10.2	1260.0	-5.9
83	1010 1101	1256.88	1278.3	0.8	0.8	24.2	1275.9	2.5
84	1010 1100	1272.50	1288.2	0.1	0.7	9.9	1291.7	-3.5
85	1010 1011	1288.13	1309.1	-0.8	-0.8	20.9	1307.6	1.5
86	1010 1010	1303.75	1321.7	-0.7	-0.8	12.6	1323.5	-1.8
87	1010 1001	1319.38	1344.3	0.8	-0.0	22.6	1339.3	5.0
88	1010 1000	1335.00	1353.2	0.7	0.8	8.9	1355.2	-2.0
89	1010 0111	1350.63	1366.1	-0.8	4.3	12.9	1371.1	-5.0
90	1010 0110	1366.25	1383.5	-0.9	-0.9	17.4	1386.9	-3.5
91	1010 0101	1381.88	1405.9	-0.1	-0.9	22.5	1402.8	3.1
92	1010 0100	1397.50	1422.7	0.7	0.7	16.8	1418.6	4.1
93	1010 0011	1413.13	1434.7	0.8	0.7	12.0	1434.5	0.2
94	1010 0010	1428.75	1450.6	-0.9	0.0	15.9	1450.4	0.3
95	1010 0001	1444.38	1471.4	-0.9	-0.8	20.8	1466.2	5.2
96	1010 0000	1460.00	1477.0	0.7	0.0	5.5	1482.1	-5.1
97	1001 1111	1475.63	1491.1	0.8	0.8	14.2	1497.9	-6.8
98	1001 1110	1491.25	1506.1	0.0	0.8	15.0	1513.8	-7.7
99	1001 1101	1506.88	1531.8	-0.8	-0.8	25.7	1529.7	2.1
100	1001 1100	1522.50	1538.8	-0.6	-0.8	6.9	1545.5	-6.8
101	1001 1011	1538.13	1557.5	0.8	0.8	18.7	1561.4	-3.9
102	1001 1010	1553.75	1574.5	-0.7	-0.7	17.0	1577.3	-2.8
103	1001 1001	1569.38	1597.6	-0.9	-0.0	23.1	1593.1	4.5
104	1001 1000	1585.00	1603.9	-0.8	-0.8	6.2	1609.0	-5.1

ORIGINAL PAGE IS OF POOR QUALITY

IS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 684

981/11/30 16:11:39 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

1.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=7)

HAC TFST S27

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
105	1001 0111	1600.63	1622.8	-4.2	-0.8	18.9	1624.8	-2.0
106	1001 0110	1616.25	1634.7	0.8	0.8	11.8	1640.7	-6.0
107	1001 0101	1631.88	1657.5	0.9	0.9	22.8	1656.6	0.9
108	1001 0100	1647.50	1673.4	-0.9	-0.9	16.0	1672.4	1.0
109	1001 0011	1663.13	1688.3	-0.8	-0.8	14.8	1688.3	-0.0
110	1001 0010	1678.75	1701.7	0.9	0.0	13.4	1704.2	-2.5
111	1001 0001	1694.38	1723.2	0.8	0.8	21.5	1720.0	3.1
112	1001 0000	1710.00	1738.2	-0.0	0.8	15.0	1735.9	2.3
113	1000 1111	1725.63	1744.1	-0.8	-0.8	5.8	1751.7	-7.7
114	1000 1110	1741.25	1759.4	-0.8	-0.9	15.4	1767.6	-8.2
115	1000 1101	1756.88	1783.1	0.9	0.8	23.6	1783.5	-0.4
116	1000 1100	1772.50	1793.3	0.8	0.8	10.2	1799.3	-6.0
117	1000 1011	1788.13	1810.2	-0.8	0.0	16.9	1815.2	-5.0
118	1000 1010	1803.75	1826.0	-0.8	-0.9	15.8	1831.1	-5.0
119	1000 1001	1819.38	1849.5	-0.0	-0.8	23.4	1846.9	2.5
120	1000 1000	1835.00	1860.1	0.7	0.7	10.6	1862.8	-2.7
121	1000 0111	1850.63	1873.9	-3.3	0.8	13.7	1878.6	-4.8
122	1000 0110	1866.25	1887.7	-0.8	-0.8	13.8	1894.5	-6.8
123	1000 0101	1881.88	1910.0	-0.7	-0.7	22.3	1910.4	-0.4
124	1000 0100	1897.50	1927.5	1.0	0.0	17.5	1926.2	1.3
125	1000 0011	1913.13	1939.5	-2.7	0.8	11.9	1942.1	-2.6
126	1000 0010	1928.75	1954.0	0.1	0.9	14.5	1958.0	-4.0
127	1000 0001	1944.38	1975.7	-0.8	-0.8	21.7	1973.8	1.9
128	1000 0000	1960.00	1993.2	-0.6	-0.6	17.5	1989.7	3.5
129	0111 1111	1975.63	2000.8	0.8	0.8	7.6	2005.5	-4.7
130	0111 1110	1991.25	2017.0	0.8	0.8	16.2	2021.4	-4.4

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 685

1981/11/30 16:11:39 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=7)

HAC TEST 327

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
131	0111 1101	2006.88	2042.5	-0.8	-0.0	25.4	2037.3	5.2
132	0111 1100	2022.50	2048.6	-0.6	5.7	6.1	2053.1	-4.6
133	0111 1011	2038.13	2071.4	-3.1	-0.8	22.8	2069.0	2.4
134	0111 1010	2053.75	2086.3	0.7	0.8	14.9	2084.9	1.5
135	0111 1001	2069.38	2108.3	0.8	0.8	22.0	2100.7	7.6
136	0111 1000	2085.00	2112.5	-0.8	-0.7	4.2	2116.6	-4.1
137	0111 0111	2100.63	2128.5	-0.8	-0.8	16.0	2132.4	-3.9
138	0111 0110	2116.25	2145.4	0.9	0.0	16.9	2148.3	-2.9
139	0111 0101	2131.88	2168.9	0.8	0.8	23.5	2164.2	4.7
140	0111 0100	2147.50	2184.6	0.0	0.8	15.7	2180.0	4.5
141	0111 0011	2163.13	2198.3	-0.8	-0.9	13.7	2195.9	2.4
142	0111 0010	2178.75	2217.5	-0.7	-0.7	19.2	2211.8	5.8
143	0111 0001	2194.38	2232.5	0.8	0.8	15.0	2227.6	4.9
144	0111 0000	2210.00	2243.5	0.8	0.8	11.0	2243.5	0.1
145	0110 1111	2225.63	2254.0	-0.8	-0.0	10.5	2259.3	-5.3
146	0110 1110	2241.25	2270.6	-0.8	-0.8	16.6	2275.2	-4.6
147	0110 1101	2256.88	2294.9	0.1	-0.8	24.2	2291.1	3.8
148	0110 1100	2272.50	2303.5	0.8	0.8	8.6	2306.9	-3.4
149	0110 1011	2288.13	2319.7	0.8	0.8	16.1	2322.8	-3.1
150	0110 1010	2303.75	2340.8	-0.8	-0.8	21.1	2338.6	2.1
151	0110 1001	2319.38	2361.3	-0.8	-0.8	20.6	2354.5	6.8
152	0110 1000	2335.00	2367.5	0.9	-0.0	6.2	2370.4	-2.9
153	0110 0111	2350.63	2380.0	0.8	0.7	12.4	2386.2	-6.3
154	0110 0110	2366.25	2398.2	-0.1	0.7	18.2	2402.1	-3.9
155	0110 0101	2381.88	2422.0	-0.8	-0.8	23.7	2418.0	4.0
156	0110 0100	2397.50	2440.2	-0.9	-0.8	18.2	2433.8	6.4
157	0110 0011	2413.13	2449.7	0.8	0.9	9.5	2449.7	0.1

ORIGINAL PAGE IS OF POOR QUALITY

'81/11/30 16:11:39 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=7)

(ESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
158	0110 0010	2428.75	2465.2	0.8	0.9	15.5	2465.5	-0.3
159	0110 0001	2444.38	2485.6	-0.9	0.0	20.4	2481.4	4.2
160	0110 0000	2460.00	2494.1	-0.7	-0.8	8.5	2497.3	-3.2
161	0101 1111	2475.63	2506.6	-0.0	-0.7	12.5	2513.1	-6.5
162	0101 1110	2491.25	2522.1	0.7	0.7	15.5	2529.0	-6.9
163	0101 1101	2506.88	2547.0	0.8	0.8	24.8	2544.9	2.1
164	0101 1100	2522.50	2554.0	-0.7	-0.7	7.0	2560.7	-6.7
165	0101 1011	2538.13	2573.1	-0.8	2.6	19.1	2576.6	-3.5
166	0101 1010	2553.75	2591.3	0.8	0.1	18.2	2592.4	-1.1
167	0101 1001	2569.38	2613.4	0.8	0.8	22.1	2608.3	5.1
168	0101 1000	2585.00	2618.2	0.0	0.7	4.8	2624.2	-5.9
169	0101 0111	2600.63	2633.5	-0.9	-0.8	15.3	2640.0	-6.5
170	0101 0110	2616.25	2651.4	-0.8	-0.9	17.9	2655.9	-4.5
171	0101 0101	2631.88	2673.9	1.0	1.0	22.5	2671.8	2.2
172	0101 0100	2647.50	2689.9	0.8	0.8	16.0	2687.6	2.3
173	0101 0011	2663.13	2703.5	-0.8	0.0	13.6	2703.5	0.1
174	0101 0010	2678.75	2717.8	-0.8	-0.8	14.2	2719.3	-1.6
175	0101 0001	2694.38	2738.6	0.0	-0.7	20.9	2735.2	3.4
176	0101 0000	2710.00	2752.5	0.7	0.7	13.8	2751.1	1.4
177	0100 1111	2725.63	2758.6	0.6	0.6	6.1	2766.9	-8.3
178	0100 1110	2741.25	2775.8	-1.1	-1.0	17.1	2782.8	-7.0
179	0100 1101	2756.88	2800.4	-0.9	-0.8	24.6	2798.7	1.7
180	0100 1100	2772.50	2809.4	0.7	0.0	9.0	2814.5	-5.1
181	0100 1011	2788.13	2828.2	-2.6	0.8	18.8	2830.4	-2.2
182	0100 1010	2803.75	2845.1	-0.1	0.8	16.9	2846.2	-1.1
183	0100 1001	2819.38	2866.6	-0.9	-0.8	21.5	2862.1	4.5

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 687

1981/11/30 16:11:39 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=7)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRATGHT LINE POINT	DEVIATION
184	0100 1000	2835.00	2876.5	-0.9	-0.8	9.9	2878.0	-1.5
185	0100 0111	2850.63	2885.2	0.8	0.8	8.7	2893.8	-8.6
186	0100 0110	2866.25	2903.3	0.5	0.6	18.1	2909.7	-6.4
187	0100 0101	2881.88	2927.4	-0.9	0.0	24.2	2925.6	1.9
188	0100 0100	2897.50	2946.2	-0.9	-0.9	18.7	2941.4	4.8
189	0100 0011	2913.13	2956.3	-2.0	-0.9	10.1	2957.3	-1.0
190	0100 0010	2928.75	2970.2	0.8	0.7	14.0	2973.1	-2.9
191	0100 0001	2944.38	2990.6	0.8	0.8	20.3	2989.0	1.6
192	0100 0000	2960.00	3005.8	-0.7	-0.7	15.2	3004.9	0.9
193	0011 1111	2975.63	3012.3	-0.8	-0.8	6.5	3020.7	-8.4
194	0011 1110	2991.25	3027.4	0.8	-0.0	15.1	3036.6	-9.2
195	0011 1101	3006.88	3053.3	0.8	0.8	25.9	3052.5	0.8
196	0011 1100	3022.50	3058.1	-0.1	0.8	4.8	3068.3	-10.2
197	0011 1011	3038.13	3082.4	-0.9	-0.9	24.3	3084.2	-1.7
198	0011 1010	3053.75	3097.4	-0.3	-0.3	14.9	3100.0	-2.6
199	0011 1001	3069.38	3120.0	0.7	0.8	22.6	3115.9	4.1
200	0011 1000	3085.00	3123.4	0.7	0.7	3.4	3131.8	-8.3
201	0011 0111	3100.63	3139.7	-0.8	0.0	16.3	3147.6	-7.9
202	0011 0110	3116.25	3157.7	-0.9	-0.9	18.0	3163.5	-5.8
203	0011 0101	3131.88	3181.7	-0.1	-0.8	24.0	3179.3	2.4
204	0011 0100	3147.50	3196.3	0.7	0.8	14.6	3195.2	1.1
205	0011 0011	3163.13	3209.6	-2.8	0.6	13.2	3211.1	-1.5
206	0011 0010	3178.75	3229.4	-0.9	-0.9	19.8	3226.9	2.4
207	0011 0001	3194.38	3248.6	-0.9	-0.9	19.2	3242.8	5.8
208	0011 0000	3210.00	3258.6	0.8	0.0	10.0	3258.7	-0.1
209	0010 1111	3225.63	3265.7	0.7	0.8	7.2	3274.5	-8.8

ORIGINAL PAGE IS OF POOR QUALITY

781/11/30 16:11:39 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=7)

RESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
210	0010 1110	3241.25	3282.0	-0.0	0.8	16.3	3290.4	-8.4
211	0010 1101	3256.88	3308.6	-1.0	-0.9	26.6	3306.2	2.4
212	0010 1100	3272.50	3316.5	-0.8	-0.8	7.8	3322.1	-5.6
213	0010 1011	3288.13	3336.1	-2.8	0.8	19.6	3338.0	-1.9
214	0010 1010	3303.75	3352.9	0.6	0.8	16.8	3353.8	-0.9
215	0010 1001	3319.38	3375.4	-0.8	0.0	22.5	3369.7	5.7
216	0010 1000	3335.00	3381.6	-0.8	-0.9	6.3	3385.6	-3.9
217	0010 0111	3350.63	3401.1	-6.7	-0.8	19.5	3401.4	-0.3
218	0010 0110	3366.25	3411.7	0.9	0.8	10.6	3417.3	-5.5
219	0010 0101	3381.88	3435.8	0.4	0.8	24.1	3433.1	2.7
220	0010 0100	3397.50	3455.0	-0.8	-0.8	19.1	3449.0	6.0
221	0010 0011	3413.13	3465.4	-1.0	-1.0	10.4	3464.9	0.5
222	0010 0010	3428.75	3478.8	0.7	-0.1	13.4	3480.7	-1.9
223	0010 0001	3444.38	3500.8	0.5	0.6	21.9	3496.6	4.2
224	0010 0000	3460.00	3513.7	-0.0	0.7	12.9	3512.5	1.2
225	0001 1111	3475.63	3522.1	-0.8	-0.7	8.4	3528.3	-6.2
226	0001 1110	3491.25	3537.9	-0.9	-0.9	15.8	3544.2	-6.2
227	0001 1101	3506.88	3563.6	0.6	0.8	25.7	3560.0	3.6
228	0001 1100	3522.50	3568.7	0.6	0.6	5.0	3575.9	-7.2
229	0001 1011	3538.13	3596.4	-1.0	0.0	27.8	3591.8	4.7
230	0001 1010	3553.75	3608.2	-0.8	-0.7	11.8	3607.6	0.6
231	0001 1001	3569.38	3631.5	-0.1	-0.8	23.3	3623.5	8.0
232	0001 1000	3585.00	3635.0	0.8	0.8	3.5	3639.4	-4.4
233	0001 0111	3600.63	3649.9	0.7	0.8	14.9	3655.2	-5.3
234	0001 0110	3616.25	3668.6	-0.9	-0.8	18.7	3671.1	-2.5
235	0001 0101	3631.88	3693.3	-0.9	-0.8	24.7	3686.9	6.4
236	0001 0100	3647.50	3707.7	0.8	-0.1	14.4	3702.8	4.9

ORIGINAL PAGE IS
OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 689
1981/11/30 16:11:39 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.3.5-B A/D THRESHOLD TEST (BAND= 4, SENSOR=7)

HRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
237	0001 0011	3663.13	3721.1	-2.9	0.9	13.4	3718.7	2.4
238	0001 0010	3678.75	3740.0	-0.2	0.8	18.9	3734.5	5.4
239	0001 0001	3694.38	3758.1	-0.9	-0.8	18.1	3750.4	7.7
240	0001 0000	3710.00	3774.8	-0.0	0.1	16.6	3766.3	8.5
241	0000 1111	3725.63	3777.8	0.8	0.8	3.0	3782.1	-4.3
242	0000 1110	3741.25	3794.1	0.7	0.8	16.3	3798.0	-3.9
243	0000 1101	3756.88	3821.2	-1.0	0.0	27.1	3813.8	7.4
244	0000 1100	3772.50	3829.6	-0.8	-0.6	8.3	3829.7	-0.1
245	0000 1011	3788.13	3853.2	-7.4	-0.8	23.6	3845.6	7.6
246	0000 1010	3803.75	3865.5	0.7	0.8	12.4	3861.4	4.1
247	0000 1001	3819.38	3887.3	0.5	0.5	21.8	3877.3	10.0
248	0000 1000	3835.00	3898.1	-0.8	-0.6	10.8	3893.2	5.0
249	0000 0111	3850.63	3907.7	-0.9	5.9	9.5	3909.0	-1.4
250	0000 0110	3866.25	3925.0	0.7	-0.1	17.4	3924.9	0.2
251	0000 0101	3881.88	3949.6	0.6	0.9	24.5	3940.7	8.8
252	0000 0100	3897.50	3968.3	-0.6	0.1	18.7	3956.6	11.7
253	0000 0011	3913.13	3979.1	-0.9	-0.8	10.8	3972.5	6.7
254	0000 0010	3928.75	3992.7	-0.6	-0.6	13.6	3988.3	4.4
255	0000 0001	3944.38	4014.6	0.6	0.9	21.9	4004.2	10.4

ORIGINAL PAGE IS
OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 690
1981/11/30 16:18:01 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=8)

S U M M A R Y

CHECK 1) RMS ERROR, 2) THRESHOLD INCREMENT(+/- 0.0 <= THRH INC <= 31.2)
THE REMAINING DATA ARE FOR INFORMATION ONLY

BEST FIT STRAIGHT LINE IS: Y =15.847X -43.5MV

DEVIATION OF SLOPE FROM IDEAL IS: 1.419%
OFFSET IS:-43.5MV
COEFFICIENT OF DETERMINATION IS: R**2= .99998230
ANALOG INPUT DURING DC RESTORE IS:64.5MV

RMS ERROR = 4.742MV REQMT: RMS ERROR <=7.812MV

THRESHOLD INCREMENT MEASUREMENT

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
28.3MV	227	15.921MV	2.6MV	144	6.327MV

LOWER LIMIT AT OUTPUT LEVELS RATIO = 1. :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
1.2MV	164	-0.074MV	-3.6MV	205	.770MV

UPPER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
2.0MV	92	0.009MV	-1.2MV	162	.719MV

TEST PASSED

ORIGINAL PAGE IS OF POOR QUALITY

981/11/30 16:18:15 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=8)

RESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
HE FOLLOWING DATA ARE FOR INFORMATION ONLY								
1	1111 1111	-24.375	-31.9	0.2	0.9		-27.6	-4.3
2	1111 1110	-8.750	-19.8	-0.9	-0.0	12.0	-11.8	-8.1
3	1111 1101	6.875	4.9	-0.8	-0.7	24.7	4.1	0.8
4	1111 1100	22.500	14.0	0.0	-0.7	9.1	19.9	-5.9
5	1111 1011	38.125	34.7	0.7	0.8	20.7	35.8	-1.1
6	1111 1010	53.750	48.1	0.8	0.7	13.4	51.6	-3.6
7	1111 1001	69.375	71.7	-0.8	0.0	23.6	67.5	4.2
8	1111 1000	85.000	76.7	-0.8	-0.8	5.0	83.3	-6.6
9	1111 0111	100.625	96.5	0.6	-0.1	19.8	99.2	-2.6
10	1111 0110	116.250	109.6	0.7	0.7	13.0	115.0	-5.4
11	1111 0101	131.875	132.6	-0.1	0.8	23.0	130.9	1.7
12	1111 0100	147.500	147.4	-0.8	-0.8	14.8	146.7	0.7
13	1111 0011	163.125	168.5	-0.8	-0.8	16.1	162.5	1.0
14	1111 0010	178.750	178.1	0.7	-0.0	14.6	178.4	-0.3
15	1111 0001	194.375	199.0	0.7	0.8	20.8	194.2	4.7
16	1111 0000	210.000	209.0	-0.7	0.0	10.0	210.1	-1.1
17	1110 1111	225.625	224.3	-0.8	-0.8	15.3	225.9	-1.6
18	1110 1110	241.250	235.8	0.0	-0.8	11.5	241.8	-6.0
19	1110 1101	256.875	259.5	0.7	0.8	23.7	257.6	1.9
20	1110 1100	272.500	271.2	0.7	0.7	11.7	273.5	-2.3
21	1110 1011	288.125	290.9	-0.8	0.0	19.7	289.3	1.6
22	1110 1010	303.750	304.4	-0.8	-0.7	13.5	305.2	-0.7
23	1110 1001	319.375	326.1	0.7	0.1	21.7	321.0	5.1
24	1110 1000	335.000	335.5	0.7	0.7	9.4	336.9	-1.3
25	1110 0111	350.625	351.7	-0.1	0.7	16.2	352.7	-1.0

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 692
1981/11/30 16:18:15 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

HAC TEST 27

1.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=8)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
26	1110 0110	366.250	365.8	-0.9	-0.9	14.1	368.6	-2.7
27	1110 0101	381.875	388.5	-0.8	-0.7	22.7	384.4	4.1
28	1110 0100	397.500	404.6	0.6	-0.1	16.1	400.2	4.4
29	1110 0011	413.125	417.9	0.7	0.7	13.3	416.1	1.8
30	1110 0010	428.750	434.4	-0.9	-0.0	16.4	431.9	2.4
31	1110 0001	444.375	454.7	-0.8	-0.7	20.3	447.8	6.9
32	1110 0000	460.000	459.3	0.0	-0.7	4.6	463.6	-4.3
33	1101 1111	475.625	479.3	0.6	0.7	19.9	479.5	-0.2
34	1101 1110	491.250	489.9	0.8	0.7	10.6	495.3	-5.4
35	1101 1101	506.875	515.8	-0.8	0.0	25.9	511.2	4.6
36	1101 1100	522.500	524.5	-0.7	-0.7	8.7	527.0	-2.6
37	1101 1011	538.125	545.6	0.7	0.0	21.2	542.9	2.8
38	1101 1010	553.750	558.6	0.7	0.8	12.9	558.7	-0.1
39	1101 1001	569.375	581.7	-0.1	0.7	23.1	574.6	7.1
40	1101 1000	585.000	589.5	-0.8	-0.9	7.8	590.4	-0.9
41	1101 0111	600.625	607.8	-0.8	-0.8	18.3	606.3	1.5
42	1101 0110	616.250	619.6	0.7	-0.1	11.8	622.1	-2.5
43	1101 0101	631.875	642.9	0.6	0.7	23.3	637.9	5.0
44	1101 0100	647.500	657.7	-0.8	-0.1	14.7	653.8	3.9
45	1101 0011	663.125	673.9	-0.8	-0.8	16.2	669.6	4.2
46	1101 0010	678.750	688.6	-0.0	-0.9	14.8	685.5	3.1
47	1101 0001	694.375	708.9	0.7	0.8	20.2	701.3	7.5
48	1101 0000	710.000	721.6	0.6	0.7	12.7	717.2	4.4
49	1100 1111	725.625	734.1	-0.8	-0.0	12.5	733.0	1.1
50	1100 1110	741.250	745.0	-0.8	-0.7	10.9	748.9	-3.8
51	1100 1101	756.875	769.1	0.7	0.0	24.0	764.7	4.3

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 693

1981/11/30 16:18:15 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

1.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=8)

HAC TEST 527

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
52	1100 1100	772.500	780.9	0.6	0.7	11.8	780.6	0.3
53	1100 1011	788.125	799.6	-0.1	0.7	18.7	796.4	3.2
54	1100 1010	803.750	813.3	-0.8	-0.9	13.7	812.3	1.1
55	1100 1001	819.375	835.8	-0.8	-0.8	22.5	828.1	7.7
56	1100 1000	835.000	847.0	0.7	-0.1	11.1	844.0	3.0
57	1100 0111	850.625	860.4	0.7	0.7	13.4	859.8	0.6
58	1100 0110	866.250	873.2	-0.0	0.8	12.8	875.6	-2.4
59	1100 0101	881.875	896.9	-0.8	-0.8	23.6	891.5	5.4
60	1100 0100	897.500	914.0	-0.1	-0.8	17.1	907.3	6.7
61	1100 0011	913.125	926.3	0.7	0.8	12.2	923.2	3.1
62	1100 0010	928.750	941.1	0.8	0.7	14.9	939.0	2.1
63	1100 0001	944.375	962.4	-0.8	-0.0	21.2	954.9	7.5
64	1100 0000	960.000	972.7	-0.7	-0.7	10.3	970.7	1.9
65	1011 1111	975.625	988.2	0.0	-0.8	15.5	986.6	1.6
66	1011 1110	991.250	996.9	0.7	0.8	8.7	1002.4	-5.5
67	1011 1101	1006.88	1022.6	-0.0	0.7	25.7	1018.3	4.4
68	1011 1100	1022.50	1030.3	-0.7	-0.7	7.7	1034.1	-3.8
69	1011 1011	1038.13	1053.1	-0.8	-0.8	22.7	1050.0	3.1
70	1011 1010	1053.75	1065.0	0.7	0.0	11.9	1065.8	-0.8
71	1011 1001	1069.38	1089.2	0.7	0.7	24.2	1081.7	7.6
72	1011 1000	1085.00	1092.5	-0.0	0.7	3.3	1097.5	-5.0
73	1011 0111	1100.63	1114.9	-0.7	-0.7	22.4	1113.3	1.6
74	1011 0110	1116.25	1126.4	-0.1	-0.9	11.5	1129.2	-2.8
75	1011 0101	1131.88	1149.7	0.7	0.7	23.3	1145.0	4.6
76	1011 0100	1147.50	1162.7	0.7	0.7	13.0	1160.9	1.8
77	1011 0011	1163.13	1179.7	-0.7	0.0	17.1	1176.7	3.0
78	1011 0010	1178.75	1194.0	-0.8	-0.8	14.3	1192.6	1.5

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 694
1981/11/30 16:18:15 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.3.5-B A/D THRESHOLD TEST (BAND= 4, SENSOR=B)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	TDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
79	1011 0001	1194.38	1216.4	0.0	-0.8	22.3	1208.4	7.9
80	1011 0000	1210.00	1221.8	0.8	0.9	5.4	1224.3	-2.5
81	1010 1111	1225.63	1239.6	0.0	0.7	17.9	1240.1	-0.4
82	1010 1110	1241.25	1250.3	-0.9	-0.9	10.6	1256.0	-5.6
83	1010 1101	1256.88	1275.7	-0.8	-0.8	25.4	1271.8	3.9
84	1010 1100	1272.50	1284.8	0.8	-0.0	9.0	1287.7	-2.9
85	1010 1011	1288.13	1304.5	0.8	0.8	19.7	1303.5	1.0
86	1010 1010	1303.75	1317.4	0.0	0.8	12.9	1319.4	-1.9
87	1010 1001	1319.38	1342.0	-0.7	-0.7	24.5	1335.2	6.8
88	1010 1000	1335.00	1350.4	-0.0	-0.7	8.4	1351.0	-0.7
89	1010 0111	1350.63	1366.2	0.7	0.7	15.8	1366.9	-0.7
90	1010 0110	1366.25	1377.8	0.8	0.7	11.6	1382.7	-5.0
91	1010 0101	1381.88	1402.4	-0.8	-0.0	24.6	1398.6	3.8
92	1010 0100	1397.50	1415.8	-0.7	2.0	13.4	1414.4	1.4
93	1010 0011	1413.13	1431.8	-0.1	-0.7	16.0	1430.3	1.5
94	1010 0010	1428.75	1445.6	0.7	0.7	13.7	1446.1	-0.6
95	1010 0001	1444.38	1467.5	-0.1	0.7	21.9	1462.0	5.5
96	1010 0000	1460.00	1474.9	-0.7	-0.8	7.4	1477.8	-3.0
97	1001 1111	1475.63	1493.0	-0.9	-0.8	18.2	1493.7	-0.6
98	1001 1110	1491.25	1501.4	0.8	-0.0	8.3	1509.5	-8.1
99	1001 1101	1506.88	1527.2	0.8	0.8	25.8	1525.4	1.9
100	1001 1100	1522.50	1534.2	0.0	0.7	7.0	1541.2	-7.0
101	1001 1011	1538.13	1557.7	-0.8	-0.8	23.4	1557.1	0.6
102	1001 1010	1553.75	1569.9	-0.0	-0.8	12.2	1572.9	-3.0
103	1001 1001	1569.38	1593.6	0.7	0.8	23.7	1588.7	4.8
104	1001 1000	1585.00	1599.2	0.8	0.7	5.6	1604.6	-5.4

ORIGINAL PAGE IS
OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 695

1981/11/30 16:18:15 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-B A/D THRESHOLD TEST (BAND= 4. SENSOR=B)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
105	1001 0111	1630.63	1619.3	-0.8	0.0	20.1	1620.4	-1.1
106	1001 0110	1616.25	1630.5	-0.8	-0.8	11.2	1636.3	-5.8
107	1001 0101	1631.88	1654.8	-0.0	-0.8	24.4	1652.1	2.7
108	1001 0100	1647.50	1664.8	0.7	0.7	9.9	1668.0	-3.2
109	1001 0011	1663.13	1683.5	-0.0	0.7	18.7	1683.8	-0.4
110	1001 0010	1678.75	1698.2	-0.8	-0.9	14.8	1699.7	-1.4
111	1001 0001	1694.38	1720.5	-0.7	-0.7	22.2	1715.5	4.9
112	1001 0000	1710.00	1735.1	0.7	-0.0	14.6	1731.4	3.7
113	1000 1111	1725.63	1744.0	0.8	0.8	8.9	1747.2	-3.2
114	1000 1110	1741.25	1753.6	0.0	0.8	9.5	1763.1	-9.5
115	1000 1101	1756.88	1780.0	-0.8	-0.8	26.4	1778.9	1.1
116	1000 1100	1772.50	1790.3	-0.0	-0.8	10.3	1794.8	-4.4
117	1000 1011	1788.13	1808.8	0.8	0.8	18.5	1810.6	-1.8
118	1000 1010	1803.75	1821.4	0.8	0.7	12.6	1826.4	-5.0
119	1000 1001	1819.38	1846.0	-0.9	-0.1	24.6	1842.3	3.7
120	1000 1000	1835.00	1856.5	-0.8	-0.2	10.5	1858.1	-1.7
121	1000 0111	1850.63	1870.8	0.0	-0.7	14.3	1874.0	-3.2
122	1000 0110	1866.25	1881.8	0.7	0.7	11.0	1889.8	-8.0
123	1000 0101	1881.88	1905.8	0.0	0.8	24.0	1905.7	0.1
124	1000 0100	1897.50	1919.9	-0.7	-0.8	14.1	1921.5	-1.6
125	1000 0011	1913.13	1932.3	-0.7	-0.8	12.3	1937.4	-5.1
126	1000 0010	1928.75	1949.3	0.9	-0.0	17.1	1953.2	-3.9
127	1000 0001	1944.38	1971.1	0.8	0.8	21.7	1969.1	2.0
128	1000 0000	1960.00	1989.6	0.1	0.7	18.5	1984.9	4.6
129	0111 1111	1975.63	2001.6	-0.0	0.8	12.1	2000.8	0.9
130	0111 1110	1991.25	2012.6	-0.0	-0.9	10.9	2016.6	-4.0

ORIGINAL PAGE IS
OF POOR QUALITY

1.5.3.5-B A/D THRESHOLD TEST (BAND= 4, SENSOR=B)

HAC TEST S21
NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
131	0111 1101	2006.88	2037.7	0.8	0.7	25.1	2032.5	5.2
132	0111 1100	2022.50	2044.2	0.7	0.6	6.5	2048.3	-4.1
133	0111 1011	2038.13	2066.8	-0.8	0.0	22.6	2064.1	2.7
134	0111 1010	2053.75	2080.7	-0.8	-0.9	13.9	2080.0	0.7
135	0111 1001	2069.38	2105.1	0.0	-0.8	24.4	2095.8	9.3
136	0111 1000	2085.00	2108.1	0.4	0.6	3.0	2111.7	-3.6
137	0111 0111	2100.63	2123.2	-0.0	0.7	15.1	2127.5	-4.3
138	0111 0110	2116.25	2141.0	-0.8	-0.9	17.8	2143.4	-2.4
139	0111 0101	2131.88	2165.4	-0.8	-0.3	24.4	2159.2	6.2
140	0111 0100	2147.50	2178.6	0.7	-0.0	13.1	2175.1	3.5
141	0111 0011	2163.13	2192.8	0.8	0.8	14.2	2190.9	1.9
142	0111 0010	2178.75	2208.0	0.0	1.0	15.2	2206.8	1.2
143	0111 0001	2194.38	2231.2	-0.9	-0.7	23.2	2222.6	8.6
144	0111 0000	2210.00	2233.8	-0.0	-0.7	2.6	2238.5	-4.6
145	0110 1111	2225.63	2248.5	0.9	0.8	14.7	2254.3	-5.8
146	0110 1110	2241.25	2264.3	0.8	0.7	15.8	2270.2	-5.8
147	0110 1101	2256.88	2290.5	-0.6	0.0	26.1	2286.0	4.5
148	0110 1100	2272.50	2300.3	-0.8	-0.8	9.8	2301.8	-1.6
149	0110 1011	2288.13	2315.8	0.0	-0.9	15.5	2317.7	-1.9
150	0110 1010	2303.75	2331.7	0.8	0.7	16.0	2333.5	-1.8
151	0110 1001	2319.38	2356.6	0.7	0.7	24.9	2349.4	7.2
152	0110 1000	2335.00	2363.5	-0.8	-0.8	6.9	2365.2	-1.7
153	0110 0111	2350.63	2376.0	-0.8	-0.8	12.5	2381.1	-5.1
154	0110 0110	2366.25	2392.6	0.8	0.0	16.6	2396.9	-4.4
155	0110 0101	2381.88	2416.8	0.8	0.7	24.2	2412.8	4.0
156	0110 0100	2397.50	2429.9	-0.1	0.7	13.1	2428.6	1.3
157	0110 0011	2413.13	2445.8	-0.8	-0.9	15.9	2444.5	1.3

ORIGINAL PAGE IS
OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 697
1981/11/30 16:18:15 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=8)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
158	0110 0010	2428.75	2461.1	-1.0	-0.9	15.3	2460.3	0.8
159	0110 0001	2444.38	2483.0	0.8	0.8	21.8	2476.2	6.8
160	0110 0000	2460.00	2489.4	0.7	0.6	6.4	2492.0	-2.6
161	0101 1111	2475.63	2501.8	-0.8	0.0	12.4	2507.9	-6.0
162	0101 1110	2491.25	2517.4	-0.1	-1.2	15.6	2523.7	-6.3
163	0101 1101	2506.88	2543.3	-0.0	-0.8	25.9	2539.5	3.8
164	0101 1100	2522.50	2548.6	1.2	1.2	5.3	2555.4	-6.8
165	0101 1011	2538.13	2567.4	0.8	0.8	18.8	2571.2	-3.8
166	0101 1010	2553.75	2585.1	-0.6	-0.6	17.6	2587.1	-2.0
167	0101 1001	2569.38	2609.9	-0.7	-0.8	24.9	2602.9	7.0
168	0101 1000	2585.00	2613.2	1.1	0.0	3.3	2618.8	-5.6
169	0101 0111	2600.63	2627.7	0.8	0.8	14.5	2634.6	-6.9
170	0101 0110	2616.25	2644.7	-0.1	1.0	17.0	2650.5	-5.7
171	0101 0101	2631.88	2670.4	-0.8	-0.8	25.6	2666.3	4.1
172	0101 0100	2647.50	2680.7	-0.8	-0.8	10.3	2682.2	-1.5
173	0101 0011	2663.13	2697.7	-2.6	0.7	17.0	2698.0	-0.4
174	0101 0010	2678.75	2712.6	0.7	0.6	14.9	2713.9	-1.2
175	0101 0001	2694.38	2736.7	-0.8	-0.1	24.1	2729.7	7.0
176	0101 0000	2710.00	2749.2	-0.7	-0.7	12.4	2745.6	3.6
177	0100 1111	2725.63	2754.2	-0.0	-0.8	5.0	2761.4	-7.2
178	0100 1110	2741.25	2768.9	0.8	0.8	14.7	2777.2	-8.4
179	0100 1101	2756.88	2794.8	0.8	0.9	26.0	2793.1	1.7
180	0100 1100	2772.50	2805.7	-0.8	-0.8	10.9	2808.9	-3.2
181	0100 1011	2788.13	2820.5	-0.8	-0.8	14.7	2824.8	-4.3
182	0100 1010	2803.75	2835.9	0.7	-0.1	15.5	2840.6	-4.7
183	0100 1001	2819.38	2861.5	0.8	0.8	25.5	2856.5	5.0

ORIGINAL PAGE IS OF POOR QUALITY

IS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 698
981/11/30 16:18:15 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

1.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=B)

IRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
184	0100 1000	2835.00	2874.3	-0.0	0.7	12.8	2872.3	2.0
185	0100 0111	2850.63	2880.9	-0.8	-0.8	6.5	2888.2	-7.3
186	0100 0110	2866.25	2898.2	-0.9	-0.8	17.3	2904.0	-5.8
187	0100 0101	2881.88	2922.0	0.8	0.9	23.7	2919.9	2.1
188	0100 0100	2897.50	2935.0	0.7	0.7	13.0	2935.7	-0.7
189	0100 0011	2913.13	2947.4	-0.9	-0.1	12.4	2951.6	-4.1
190	0100 0010	2928.75	2966.2	-0.9	-0.9	18.8	2967.4	-1.2
191	0100 0001	2944.38	2989.0	-0.0	-0.7	22.8	2983.3	5.8
192	0100 0000	2960.00	3002.0	0.6	0.7	12.9	2999.1	2.9
193	0011 1111	2975.63	3006.3	0.8	0.8	4.3	3014.9	-8.6
194	0011 1110	2991.25	3022.3	-0.8	-0.9	16.0	3030.8	-8.5
195	0011 1101	3006.88	3048.9	-0.6	-0.5	26.6	3046.6	2.3
196	0011 1100	3022.50	3053.6	0.8	-0.0	4.7	3062.5	-8.9
197	0011 1011	3038.13	3073.0	0.8	0.9	19.5	3078.3	-5.3
198	0011 1010	3053.75	3089.9	-0.0	0.8	16.8	3094.2	-4.3
199	0011 1001	3069.38	3116.1	-0.8	-0.8	26.2	3110.0	6.0
200	0011 1000	3085.00	3119.5	-0.8	-0.8	3.4	3125.9	-6.4
201	0011 0111	3100.63	3133.6	0.9	0.9	14.1	3141.7	-8.1
202	0011 0110	3116.25	3150.8	0.7	0.7	17.2	3157.6	-6.8
203	0011 0101	3131.88	3176.9	-0.9	-0.0	26.1	3173.4	3.5
204	0011 0100	3147.50	3190.2	-0.7	-0.7	13.3	3189.3	1.0
205	0011 0011	3163.13	3205.0	-3.6	-0.8	14.7	3205.1	-0.1
206	0011 0010	3178.75	3218.3	0.6	0.7	13.3	3221.0	-2.6
207	0011 0001	3194.38	3243.3	0.6	0.7	24.9	3236.8	6.5
208	0011 0000	3210.00	3248.1	-0.7	-0.7	4.8	3252.6	-4.5
209	0010 1111	3225.63	3261.2	-0.8	-0.8	13.0	3268.5	-7.3

ORIGINAL PAGE IS
OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 699
1981/11/30 16:18:15 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=8)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
210	0010 1110	3241.25	3275.7	0.8	0.0	14.5	3284.3	-8.6
211	0010 1101	3256.88	3302.6	0.7	0.8	26.9	3300.2	2.4
212	0010 1100	3272.50	3311.0	-0.0	0.8	8.4	3316.0	-5.0
213	0010 1011	3288.13	3328.0	-0.8	-0.8	17.0	3331.9	-3.9
214	0010 1010	3303.75	3343.4	-0.7	-0.8	15.4	3347.7	-4.3
215	0010 1001	3319.38	3369.6	0.7	0.9	26.2	3363.6	6.1
216	0010 1000	3335.00	3375.9	0.7	0.8	6.3	3379.4	-3.5
217	0010 0111	3350.63	3388.9	-0.8	0.0	13.0	3395.3	-6.4
218	0010 0110	3366.25	3406.2	-0.9	-0.8	17.3	3411.1	-4.9
219	0010 0101	3381.88	3431.6	-0.1	-0.8	25.4	3427.0	4.7
220	0010 0100	3397.50	3442.9	0.7	0.7	11.2	3442.8	0.1
221	0010 0011	3413.13	3455.3	0.8	0.8	12.4	3458.7	-3.4
222	0010 0010	3428.75	3474.5	-0.9	-0.8	19.2	3474.5	-0.0
223	0010 0001	3444.38	3498.7	-0.9	-0.8	24.2	3490.3	8.3
224	0010 0000	3460.00	3503.2	0.7	0.1	4.5	3506.2	-3.0
225	0001 1111	3475.63	3515.8	0.7	0.8	12.7	3522.0	-6.2
226	0001 1110	3491.25	3530.8	-0.1	0.8	15.0	3537.9	-7.0
227	0001 1101	3506.88	3559.1	-0.9	-0.8	28.3	3553.7	5.4
228	0001 1100	3522.50	3564.4	-0.8	-0.8	5.2	3569.6	-5.2
229	0001 1011	3538.13	3582.9	0.7	0.8	18.5	3585.4	-7.5
230	0001 1010	3553.75	3599.8	0.7	0.7	16.8	3601.3	-1.5
231	0001 1001	3569.38	3626.6	-1.0	0.1	26.8	3617.1	9.5
232	0001 1000	3585.00	3630.4	-0.8	-0.8	3.8	3633.0	-2.6
233	0001 0111	3600.63	3645.0	-0.1	-0.7	14.6	3648.8	-3.8
234	0001 0110	3616.25	3661.2	0.7	0.7	16.1	3664.7	-3.5
235	0001 0101	3631.88	3687.2	0.8	0.9	26.0	3680.5	6.7
236	0001 0100	3647.50	3697 4	-0.8	-0.0	10.1	3696.4	1.0

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 700

1981/11/30 16:18:15 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=8)

HAC TEST 527

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
237	0001 0011	3663.13	3716.2	-0.9	-0.9	18.8	3712.2	4.0
238	0001 0010	3678.75	3729.0	0.6	0.0	12.8	3728.0	1.0
239	0001 0001	3694.38	3754.4	0.7	0.9	25.4	3743.9	10.6
240	0001 0000	3710.00	3770.2	-0.1	0.7	15.7	3759.7	10.4
241	0000 1111	3725.63	3772.9	-0.9	-0.9	2.8	3775.6	-2.6
242	0000 1110	3741.25	3788.2	-1.0	-0.8	15.2	3791.4	-3.2
243	0000 1101	3756.88	3814.8	0.4	0.1	26.6	3807.3	7.6
244	0000 1100	3772.50	3823.8	0.6	0.6	9.0	3823.1	0.7
245	0000 1011	3788.13	3840.2	-1.0	0.0	16.4	3839.0	1.3
246	0000 1010	3803.75	3856.0	-1.4	-1.2	15.7	3854.8	1.1
247	0000 1001	3819.38	3883.3	-0.3	-0.8	27.3	3870.7	12.6
248	0000 1000	3835.00	3896.0	0.9	0.9	12.7	3886.5	9.5
249	0000 0111	3850.63	3901.0	0.8	0.8	5.0	3902.4	-1.3
250	0000 0110	3866.25	3919.1	-1.0	-0.1	18.1	3918.2	0.9
251	0000 0101	3881.88	3945.0	-1.0	-0.9	25.9	3934.1	11.0
252	0000 0100	3897.50	3956.1	0.7	0.0	11.1	3949.9	6.2
253	0000 0011	3913.13	3972.3	-2.9	0.9	16.2	3965.7	6.6
254	0000 0010	3928.75	3986.7	-0.1	0.8	14.4	3981.6	5.1
255	0000 0001	3944.38	4012.1	-1.0	-0.8	25.4	3997.4	14.7

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 701
1981/11/30 16:24:37 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=9)

S U M M A R Y

HECK 1) RMS ERROR, 2) THRESHOLD INCREMENT(+/- 0.0 <= THRH INC <= 31.2)
HE REMAINING DATA ARE FOR INFORMATION ONLY

BEST FIT STRAIGHT LINE IS: Y =15.872X -41.9MV

DEVIATION OF SLOPE FROM IDEAL IS: 1.582%
OFFSET IS:-41.9MV
COEFFICIENT OF DETERMINATION IS: R**2= .99998650
ANALOG INPUT DURING DC RESTORE IS:64.4MV

RMS ERROR = 4.341MV REQMT: RMS ERROR <=7.812MV

THRESHOLD INCREMENT MEASUREMENT

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
27.7MV	243	15.922MV	3.3MV	32	5.814MV

LOWER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
1.3MV	214	-0.043MV	-1.5MV	6	.926MV

UPPER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
1.3MV	214	-0.045MV	-3.8MV	86	.943MV

TEST PASSED

HAC TEST 527

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 702
1981/11/30 16:24:51 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=9

HAC TEST S27

HRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
THE FOLLOWING DATA ARE FOR INFORMATION ONLY								
1	1111 1111	-24.375	-27.9	-1.5	-1.0		-26.1	-1.9
2	1111 1110	-8.750	-18.8	0.8	0.0	9.2	-10.2	-8.6
3	1111 1101	6.875	6.3	0.9	1.0	25.1	5.7	0.7
4	1111 1100	22.500	19.3	-0.0	1.0	13.0	21.6	-2.2
5	1111 1011	38.125	38.1	-1.0	-1.0	18.8	37.4	0.7
6	1111 1010	53.750	52.2	-1.5	-1.8	14.1	53.3	-1.1
7	1111 1001	69.375	73.6	0.9	0.0	21.4	69.2	4.4
8	1111 1000	85.000	77.9	1.0	0.9	4.2	85.0	-7.2
9	1111 0111	100.625	100.0	-0.9	0.1	22.1	100.9	-1.0
10	1111 0110	116.250	112.4	-1.1	-1.0	12.4	116.8	-4.4
11	1111 0101	131.875	133.8	-0.1	-1.0	23.3	132.7	3.1
12	1111 0100	147.500	150.6	0.9	1.0	14.8	148.5	2.1
13	1111 0011	163.125	165.2	1.0	1.0	14.6	164.4	0.8
14	1111 0010	178.750	180.9	-1.1	-0.0	15.6	180.3	0.6
15	1111 0001	194.375	203.0	-1.1	-1.1	22.1	196.1	6.8
16	1111 0000	210.000	211.5	0.9	-0.0	8.5	212.0	-0.6
17	1110 1111	225.625	226.4	1.0	1.0	14.9	227.9	-1.5
18	1110 1110	241.250	236.8	-0.0	0.9	10.4	243.8	-6.9
19	1110 1101	256.875	262.7	-1.0	-1.0	25.9	259.6	3.1
20	1110 1100	272.500	277.6	-1.1	-1.1	14.9	275.5	2.1
21	1110 1011	288.125	292.2	1.0	0.0	14.6	291.4	0.8
22	1110 1010	303.750	305.2	0.9	1.0	13.0	307.3	-2.0
23	1110 1001	319.375	329.9	-1.1	-0.0	24.6	323.1	6.8
24	1110 1000	335.000	339.3	-1.0	-1.0	9.4	339.0	0.3
25	1110 0111	350.625	354.9	-0.1	-0.9	15.5	354.9	-0.0

ORIGINAL PAGE IS
OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 703

1981/11/30 16:24:51 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=9)

HAC TEST 527

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
26	1110 0110	366.250	366.9	1.0	0.9	12.0	370.7	-3.9
27	1110 0101	381.875	389.9	0.9	1.0	23.0	386.6	3.3
28	1110 0100	397.500	409.6	-1.1	-0.1	19.7	402.5	7.1
29	1110 0011	413.125	421.1	-1.1	-1.1	11.5	418.4	2.7
30	1110 0010	428.750	435.3	1.0	0.0	14.2	434.2	1.0
31	1110 0001	444.375	456.8	1.0	1.0	21.5	450.1	6.7
32	1110 0000	460.000	460.1	-0.0	0.9	3.3	466.0	-5.8
33	1101 1111	475.625	482.9	-1.1	-1.0	22.7	481.8	1.0
34	1101 1110	491.250	492.5	-0.9	-1.1	9.6	497.7	-5.2
35	1101 1101	506.875	517.1	0.8	-0.0	24.6	513.6	3.5
36	1101 1100	522.500	529.7	1.1	1.0	12.6	529.5	0.2
37	1101 1011	538.125	548.3	-0.9	0.0	18.6	545.3	3.0
38	1101 1010	553.750	560.3	-1.0	-1.0	12.0	561.2	-0.9
39	1101 1001	569.375	584.9	-0.1	1.0	24.6	577.1	7.9
40	1101 1000	585.000	590.5	1.1	0.9	5.6	593.0	-2.4
41	1101 0111	600.625	609.4	0.8	0.8	18.8	608.8	0.5
42	1101 0110	616.250	622.2	-1.1	-0.0	12.8	624.7	-2.5
43	1101 0101	631.875	645.9	-1.0	-1.1	23.7	640.6	5.3
44	1101 0100	647.500	660.7	1.0	-0.0	14.7	656.4	4.2
45	1101 0011	663.125	674.9	1.0	1.0	14.3	672.3	2.6
46	1101 0010	678.750	689.4	-0.1	0.9	14.4	688.2	1.2
47	1101 0001	694.375	712.6	-1.1	-1.0	23.2	704.1	8.5
48	1101 0000	710.000	725.4	-1.0	-1.0	12.8	719.9	5.4
49	1100 1111	725.625	735.8	0.9	-0.1	10.5	735.8	0.0
50	1100 1110	741.250	745.8	1.0	1.0	10.0	751.7	-5.9
51	1100 1101	756.875	772.0	-1.0	-0.1	26.2	767.5	4.5

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 704
1981/11/30 16:24:51 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

HAC TEST 527

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=9) NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
52	1100 1100	772.500	786.9	-1.0	-1.1	14.9	783.4	3.5
53	1100 1011	788.125	802.0	-0.0	-1.1	15.1	799.3	2.7
54	1100 1010	803.750	813.6	0.9	0.9	11.6	815.2	-1.6
55	1100 1001	819.375	837.4	1.0	1.0	23.8	831.0	6.4
56	1100 1000	835.000	851.1	-0.5	-0.1	13.7	846.9	4.2
57	1100 0111	850.625	863.0	-0.9	-1.1	11.8	862.8	0.2
58	1100 0110	866.250	874.9	0.9	0.0	11.9	878.7	-3.8
59	1100 0101	881.875	898.1	1.0	1.0	23.2	894.5	3.6
60	1100 0100	897.500	916.9	0.0	0.9	18.8	910.4	6.5
61	1100 0011	913.125	928.9	-1.1	-1.0	12.0	926.3	2.6
62	1100 0010	928.750	943.6	-0.9	-1.0	14.7	942.1	1.5
63	1100 0001	944.375	964.3	1.0	-0.1	20.6	958.0	6.3
64	1100 0000	960.000	974.4	0.9	1.0	10.1	973.9	0.5
65	1011 1111	975.625	990.5	-1.0	-0.1	16.2	989.8	0.8
66	1011 1110	991.250	999.6	-1.2	-1.1	9.1	1005.6	-6.0
67	1011 1101	1006.88	1025.2	0.0	-0.9	25.5	1021.5	3.7
68	1011 1100	1022.50	1036.8	1.0	1.0	11.6	1037.4	-0.5
69	1011 1011	1038.13	1055.9	1.0	1.0	19.1	1053.2	2.7
70	1011 1010	1053.75	1069.1	-1.2	-0.1	13.2	1069.1	-0.0
71	1011 1001	1069.38	1091.8	-1.0	-1.0	22.7	1085.0	6.8
72	1011 1000	1085.00	1095.2	0.9	-0.0	3.5	1100.9	-5.6
73	1011 0111	1100.63	1116.6	1.0	1.0	21.3	1116.7	-0.2
74	1011 0110	1116.25	1127.1	-0.0	0.9	10.6	1132.6	-5.5
75	1011 0101	1131.88	1152.1	-1.0	-1.1	24.9	1148.5	3.6
76	1011 0100	1147.50	1167.5	-0.9	-1.0	15.4	1164.4	3.1
77	1011 0011	1163.13	1182.0	0.8	-0.1	14.5	1180.2	1.8
78	1011 0010	1178.75	1194.5	0.9	1.0	12.5	1196.1	-1.6

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 705

1981/11/30 16:24:51 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-B A/D THRESHOLD TEST (BAND= 4, SENSOR=9)

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
79	1011 0001	1194.38	1217.7	0.0	1.2	23.2	1212.0	5.7
80	1011 0000	1210.00	1231.0	-0.9	-0.9	13.3	1227.8	3.1
81	1010 1111	1225.63	1243.2	0.0	-1.4	12.2	1243.7	-0.5
82	1010 1110	1241.25	1251.3	1.0	0.8	8.2	1259.6	-8.2
83	1010 1101	1256.88	1276.6	1.1	1.1	25.2	1275.5	1.1
84	1010 1100	1272.50	1292.4	-1.0	-0.1	15.8	1291.3	1.1
85	1010 1011	1288.13	1309.2	-1.0	-1.1	16.8	1307.2	2.0
86	1010 1010	1303.75	1321.8	-0.7	-3.8	12.5	1323.1	-1.3
87	1010 1001	1319.38	1343.2	1.0	1.1	21.4	1338.9	4.2
88	1010 1000	1335.00	1353.2	0.0	1.0	10.0	1354.8	-1.7
89	1010 0111	1350.63	1369.9	-1.0	-1.0	16.7	1370.7	-0.8
90	1010 0110	1366.25	1380.7	-1.0	-1.1	10.8	1386.6	-5.8
91	1010 0101	1381.88	1403.4	0.9	-0.1	22.7	1402.4	1.0
92	1010 0100	1397.50	1421.8	0.9	0.9	18.4	1418.3	3.5
93	1010 0011	1413.13	1433.8	-0.0	1.0	12.0	1434.2	-0.4
94	1010 0010	1428.75	1448.5	-1.2	-1.1	14.7	1450.0	-1.6
95	1010 0001	1444.38	1471.1	-0.0	-1.1	22.7	1465.9	5.2
96	1010 0000	1460.00	1479.1	1.0	1.0	8.0	1481.8	-2.7
97	1001 1111	1475.63	1494.8	1.0	1.0	15.7	1497.7	-2.8
98	1001 1110	1491.25	1504.5	-1.0	-0.1	9.7	1513.5	-9.0
99	1001 1101	1506.88	1530.1	-1.0	-1.1	25.6	1529.4	0.7
100	1001 1100	1522.50	1543.0	-0.1	-1.0	12.9	1545.3	-2.3
101	1001 1011	1538.13	1560.8	1.1	1.0	17.8	1561.2	-0.3
102	1001 1010	1553.75	1570.5	-0.1	1.1	9.7	1577.0	-6.5
103	1001 1001	1569.38	1596.7	-0.9	-1.0	26.2	1592.9	3.8
104	1001 1000	1585.00	1602.5	-1.0	-1.0	5.8	1608.8	-6.3

ORIGINAL PAGE IS
OF POOR QUALITY

IS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 706
.981/11/30 16:24:51 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
:.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=9)

HAC TEST 527

HRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
105	1001 0111	1600.63	1621.7	1.0	-0.0	19.1	1624.6	-3.0
106	1001 0110	1616.25	1631.9	1.0	1.1	10.2	1640.5	-8.7
107	1001 0101	1631.88	1656.0	-0.1	1.0	24.2	1656.4	-0.4
108	1001 0100	1647.50	1672.5	-1.0	-1.0	16.5	1672.3	0.3
109	1001 0011	1663.13	1687.4	-0.1	-1.2	14.9	1688.1	-0.7
110	1001 0010	1678.75	1699.0	0.9	0.9	11.5	1704.0	-5.0
111	1001 0001	1694.38	1722.7	1.0	1.0	23.7	1719.9	2.8
112	1001 0000	1710.00	1739.5	-0.9	0.0	16.8	1735.7	3.8
113	1000 1111	1725.63	1748.1	-1.0	-1.1	8.6	1751.6	-3.5
114	1000 1110	1741.25	1757.0	0.0	-1.0	8.9	1767.5	-10.5
115	1000 1101	1756.88	1781.3	1.0	0.9	24.3	1783.4	-2.0
116	1000 1100	1772.50	1796.2	0.0	1.0	14.9	1799.2	-3.0
117	1000 1011	1788.13	1813.6	-1.1	-1.0	17.4	1815.1	-1.5
118	1000 1010	1803.75	1823.3	-0.9	-1.0	9.7	1831.0	-7.7
119	1000 1001	1819.38	1847.9	1.0	-0.0	24.6	1846.9	1.1
120	1000 1000	1835.00	1861.2	1.1	1.1	13.3	1862.7	-1.5
121	1000 0111	1850.63	1873.6	0.0	1.0	12.4	1878.6	-5.0
122	1000 0110	1866.25	1885.3	-1.1	-1.1	11.7	1894.5	-9.1
123	1000 0101	1881.88	1909.1	0.0	-1.0	23.8	1910.3	-1.2
124	1000 0100	1897.50	1926.6	0.9	0.9	17.5	1926.2	0.4
125	1000 0011	1913.13	1938.2	1.0	1.0	11.6	1942.1	-3.8
126	1000 0010	1928.75	1952.6	-1.0	0.0	14.3	1958.0	-5.4
127	1000 0001	1944.38	1975.6	-1.0	-1.1	23.0	1973.8	1.8
128	1000 0000	1960.00	1993.6	0.0	-0.9	18.0	1989.7	3.9
129	0111 1111	1975.63	2005.7	1.0	1.0	12.1	2005.6	0.2
130	0111 1110	1991.25	2015.2	0.0	1.0	9.5	2021.4	-6.2

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 707
1981/11/30 16:24:51 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=9)

HAC TEST 527

DEC 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
131	0111 1101	2006.88	2041.3	-1.1	-1.0	26.0	2037.3	4.0
132	0111 1100	2022.50	2054.8	-1.0	-1.0	13.5	2053.2	1.6
133	0111 1011	2038.13	2072.1	0.7	0.0	17.3	2069.1	3.1
134	0111 1010	2053.75	2085.2	1.1	1.1	13.0	2084.9	0.2
135	0111 1001	2069.38	2106.8	-0.0	1.1	21.6	2100.8	5.9
136	0111 1000	2085.00	2111.3	-1.0	-1.0	4.5	2116.7	-5.4
137	0111 0111	2100.63	2133.8	0.0	-1.1	22.5	2132.6	1.3
138	0111 0110	2116.25	2143.0	1.0	0.9	9.2	2148.4	-5.4
139	0111 0101	2131.88	2167.2	1.0	1.0	24.2	2164.3	2.9
140	0111 0100	2147.50	2184.7	-1.0	-0.0	17.6	2180.7	4.6
141	0111 0011	2163.13	2199.9	-1.0	-1.0	15.1	2196.0	3.9
142	0111 0010	2178.75	2210.6	-0.0	-1.0	10.7	2211.9	-1.3
143	0111 0001	2194.38	2234.1	1.0	1.0	23.5	2227.8	6.3
144	0111 0000	2210.00	2244.4	0.0	1.0	10.3	2243.7	0.7
145	0110 1111	2225.63	2259.4	-1.0	-0.9	15.0	2259.5	-0.1
146	0110 1110	2241.25	2268.5	-0.9	-1.3	9.1	2275.4	-6.9
147	0110 1101	2256.88	2292.9	1.0	-0.1	24.3	2291.3	1.6
148	0110 1100	2272.50	2309.8	1.0	1.0	16.9	2307.1	2.6
149	0110 1011	2288.13	2324.7	-0.0	1.0	14.9	2323.0	1.6
150	0110 1010	2303.75	2339.7	-1.0	-1.0	15.0	2338.9	0.8
151	0110 1001	2319.38	2360.3	-0.0	-1.1	20.6	2354.8	5.6
152	0110 1000	2335.00	2367.4	1.0	1.1	7.0	2370.6	-3.3
153	0110 0111	2350.63	2385.2	1.0	1.0	17.9	2386.5	-1.3
154	0110 0110	2366.25	2396.7	-1.3	-0.1	11.5	2402.4	-5.7
155	0110 0101	2381.88	2420.6	-1.1	-1.0	23.9	2418.3	2.4
156	0110 0100	2397.50	2440.5	0.0	-1.0	19.8	2434.1	6.3
157	0110 0011	2413.13	2451.1	0.9	0.9	10.6	2450.0	1.1

ORIGINAL PAGE IS
OF POOR QUALITY

HAC TEST S27

.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=9) NOV 30 '81

;ESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRATGHT LINE POINT	DEVIATION
158	0110 0010	2428.75	2462.7	0.0	0.9	11.6	2465.9	-3.2
159	0110 0001	2444.38	2487.4	-1.1	-1.1	24.8	2481.7	5.7
160	0110 0000	2460.00	2493.7	-1.3	-1.3	6.3	2497.6	-3.9
161	0101 1111	2475.63	2511.4	1.0	-0.0	17.7	2513.5	-2.1
162	0101 1110	2491.25	2520.3	0.9	0.9	8.8	2529.4	-9.1
163	0101 1101	2506.88	2545.8	-0.0	1.0	25.5	2545.2	0.6
164	0101 1100	2522.50	2561.1	-1.0	-0.9	15.2	2561.1	-0.0
165	0101 1011	2538.13	2578.8	-1.1	-1.1	17.7	2577.0	1.8
166	0101 1010	2553.75	2590.3	1.0	1.1	11.5	2592.8	-2.5
167	0101 1001	2569.38	2612.0	1.0	1.0	21.7	2608.7	3.3
168	0101 1000	2585.00	2620.1	-1.0	0.0	8.0	2624.6	-4.5
169	0101 0111	2600.63	2639.5	-1.1	-1.1	19.4	2640.5	-1.0
170	0101 0110	2616.25	2649.1	-0.0	-1.1	9.7	2656.3	-7.2
171	0101 0101	2631.88	2672.6	1.0	1.0	23.4	2672.2	0.4
172	0101 0100	2647.50	2689.7	1.0	1.0	17.1	2688.1	1.6
173	0101 0011	2663.13	2705.3	-1.1	-1.1	15.6	2703.9	1.4
174	0101 0010	2678.75	2715.2	-1.1	-1.1	9.9	2719.8	-4.6
175	0101 0001	2694.38	2739.4	1.0	0.0	24.2	2735.7	3.7
176	0101 0000	2710.00	2753.3	1.0	1.0	13.9	2751.6	1.8
177	0100 1111	2725.63	2764.0	0.0	1.0	10.7	2767.4	-3.4
178	0100 1110	2741.25	2774.0	-1.4	-1.2	9.9	2783.3	-9.3
179	0100 1101	2756.88	2799.4	-1.1	-1.1	25.4	2799.2	0.2
180	0100 1100	2772.50	2814.9	1.1	1.0	15.5	2815.1	-0.1
181	0100 1011	2788.13	2830.2	0.8	0.8	15.3	2830.9	-0.7
182	0100 1010	2803.75	2844.7	-1.3	-0.0	14.4	2846.8	-2.1
183	0100 1001	2819.38	2865.7	-1.0	-0.9	21.0	2867.7	3.0

ORIGINAL PAGE IS OF POOR QUALITY

HS-206 THEMATIC MAPPER MUX UNIT TEST MODEL.. FL1. S/N 3 PAGE 709
1981/11/30 16:24:51 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.3.5-B A/D THRESHOLD TEST (BAND= 4, SENSOR=9)

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRATGHT LINE POINT	DEVIATION
184	0100 1000	2835.00	2878.4	0.0	-1.0	12.7	2878.5	-0.2
185	0100 0111	2850.63	2891.0	1.1	0.9	12.6	2894.4	-3.4
186	0100 0110	2866.25	2901.1	0.9	1.0	10.1	2910.3	-9.2
187	0100 0101	2881.88	2926.2	-1.1	-1.0	25.1	2926.2	0.0
188	0100 0100	2897.50	2946.5	-1.1	-1.2	20.3	2942.0	4.4
189	0100 0011	2913.13	2956.8	1.0	-0.0	10.4	2957.9	-1.1
190	0100 0010	2928.75	2968.4	0.1	0.2	11.6	2973.8	-5.4
191	0100 0001	2944.38	2992.2	-0.1	1.0	23.8	2989.6	2.6
192	0100 0000	2960.00	3005.7	-0.0	0.2	13.5	3005.5	0.2
193	0011 1111	2975.63	3018.5	-1.1	-1.1	12.8	3021.4	-2.9
194	0011 1110	2991.25	3025.6	1.0	1.0	7.1	3037.3	-11.6
195	0011 1101	3006.88	3052.0	1.0	1.1	26.4	3053.1	-1.1
196	0011 1100	3022.50	3066.3	-1.4	-1.4	14.3	3069.0	-2.7
197	0011 1011	3038.13	3085.2	-1.1	-1.0	18.9	3084.9	0.3
198	0011 1010	3053.75	3097.2	-0.0	-1.1	12.0	3100.8	-3.6
199	0011 1001	3069.38	3118.6	1.0	1.1	21.4	3116.6	1.9
200	0011 1000	3085.00	3122.1	1.0	1.0	3.5	3132.5	-10.4
201	0011 0111	3100.63	3145.6	-0.6	-0.4	23.5	3148.4	-2.8
202	0011 0110	3116.25	3155.7	-1.2	-1.3	10.1	3164.2	-8.6
203	0011 0101	3131.88	3179.7	1.0	0.0	24.0	3180.1	-0.4
204	0011 0100	3147.50	3195.9	1.0	1.1	16.2	3196.0	-0.1
205	0011 0011	3163.13	3211.9	-0.0	1.0	16.0	3211.9	-0.0
206	0011 0010	3178.75	3227.4	-1.3	-1.2	15.5	3227.7	-0.4
207	0011 0001	3194.38	3247.9	-1.3	-1.2	20.5	3243.6	4.3
208	0011 0000	3210.00	3259.9	0.9	0.0	12.0	3259.5	0.4
209	0010 1111	3225.63	3271.8	1.0	1.0	11.9	3275.3	-3.5

ORIGINAL PAGE IS
OF POOR QUALITY

HAC 1981 527

1.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=9) 11/30/81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
210	0010 1110	3241.25	3281.5	-1.0	-0.0	9.6	3291.2	-9.7
211	0010 1101	3256.88	3307.5	-1.3	-1.1	26.0	3307.1	0.5
212	0010 1100	3272.50	3322.9	1.0	0.0	15.4	3323.0	-0.0
213	0010 1011	3288.13	3338.7	0.4	0.4	15.8	3338.8	-0.1
214	0010 1010	3303.75	3351.5	1.3	1.3	12.7	3354.7	-3.2
215	0010 1001	3319.38	3374.3	-1.2	0.1	22.8	3370.6	3.7
216	0010 1000	3335.00	3383.5	-1.1	-1.0	9.2	3386.5	-3.0
217	0010 0111	3350.63	3399.8	1.1	0.0	16.3	3402.3	-2.5
218	0010 0110	3366.25	3409.4	1.1	1.0	9.6	3418.2	-8.8
219	0010 0101	3381.88	3434.5	-0.2	1.1	25.0	3434.1	0.4
220	0010 0100	3397.50	3455.1	-1.1	-1.0	20.6	3449.9	5.2
221	0010 0011	3413.13	3467.7	-1.1	-1.2	12.6	3465.8	1.9
222	0010 0010	3428.75	3476.1	1.0	0.1	8.4	3481.7	-5.6
223	0010 0001	3444.38	3502.0	0.9	1.0	26.0	3497.6	4.5
224	0010 0000	3460.00	3514.1	-1.3	0.0	12.0	3513.4	0.6
225	0001 1111	3475.63	3528.6	-1.1	-1.0	14.5	3529.3	-0.7
226	0001 1110	3491.25	3536.3	-0.0	-1.1	7.7	3545.2	-8.9
227	0001 1101	3506.88	3562.3	0.9	1.0	26.0	3561.0	1.3
228	0001 1100	3522.50	3576.3	0.9	1.0	14.0	3576.9	-0.6
229	0001 1011	3538.13	3595.9	-1.1	0.0	19.6	3592.8	3.2
230	0001 1010	3553.75	3607.6	-1.2	-1.1	11.6	3608.7	-1.1
231	0001 1001	3569.38	3629.6	0.9	0.0	22.0	3624.5	5.1
232	0001 1000	3585.00	3636.4	0.9	1.0	6.9	3640.4	-4.0
233	0001 0111	3600.63	3656.4	-0.2	1.1	20.0	3656.3	0.2
234	0001 0110	3616.25	3666.5	-1.2	-1.0	10.1	3672.7	-5.6
235	0001 0101	3631.88	3692.1	-1.1	-1.1	25.6	3688.0	4.1
236	0001 0100	3647.50	3707.9	0.9	0.0	15.8	3703.9	4.0

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 711

1981/11/30 16:24:51 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=9)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
237	0001 0011	3663.13	3723.6	0.9	1.0	15.7	3719.8	3.8
238	0001 0010	3678.75	3738.4	-1.3	0.0	14.9	3735.6	2.8
239	0001 0001	3694.38	3759.8	-1.2	-1.1	21.4	3751.5	8.3
240	0001 0000	3710.00	3776.8	-0.1	-1.0	17.0	3767.4	9.5
241	0000 1111	3725.63	3784.1	1.0	1.0	7.3	3783.3	0.9
242	0000 1110	3741.25	3792.3	1.0	0.9	8.2	3799.1	-6.8
243	0000 1101	3756.88	3820.0	-1.2	0.1	27.7	3815.0	5.0
244	0000 1100	3772.50	3835.8	-1.2	-1.2	15.9	3830.9	5.0
245	0000 1011	3788.13	3851.5	1.1	0.0	15.7	3846.7	4.8
246	0000 1010	3803.75	3863.5	1.2	0.9	12.0	3862.6	0.9
247	0000 1001	3819.38	3886.4	-0.3	1.0	22.8	3878.5	7.9
248	0000 1000	3835.00	3901.2	-1.1	-1.1	14.8	3894.4	6.9
249	0000 0111	3850.63	3914.5	-1.1	-1.2	13.3	3910.2	4.3
250	0000 0110	3866.25	3922.7	1.0	-0.0	8.2	3926.1	-3.4
251	0000 0101	3881.88	3948.1	0.9	1.1	25.3	3942.0	6.1
252	0000 0100	3897.50	3968.3	-0.8	0.0	20.2	3957.8	10.5
253	0000 0011	3913.13	3981.6	-1.1	-1.1	13.3	3973.7	7.9
254	0000 0010	3928.75	3990.6	-0.1	-1.0	9.0	3989.6	1.0
255	0000 0001	3944.38	4016.3	0.5	0.5	25.6	4005.5	10.8

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 712
1981/11/30 16:31:13 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=10)

S U M M A R Y

CHECK 1) RMS ERROR, 2) THRESHOLD INCREMENT(+/- 0.0 <= THRH INC <= 31.2)
THE REMAINING DATA ARE FOR INFORMATION ONLY

BEST FIT STRAIGHT LINE IS: Y =15.898X -41.6MV

DEVIATION OF SLOPE FROM IDEAL IS: 1.746%
OFFSET IS:-41.6MV
COEFFICIENT OF DETERMINATION IS: R**2= .99998770
ANALOG INPUT DURING DC RESTORE IS:64.5MV

RMS ERROR = 4.191MV REQMT: RMS ERROR <=7.812MV

THRESHOLD INCREMENT MEASUREMENT

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
27.8MV	227	15.960MV	3.1MV	136	5.643MV

LOWER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
1.2MV	221	-0.077MV	-4.6MV	184	.940MV

UPPER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
1.2MV	221	-0.009MV	-1.6MV	172	.887MV

TEST PASSED

ORIGINAL PAGE IS
OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 713

1981/11/30 16:31:27 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4. SENSOR=10)

NOV 30 '81

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
THE FOLLOWING DATA ARE FOR INFORMATION ONLY								
1	1111 1111	-24.375	-29.8	0.7	1.0		-25.7	-4.1
2	1111 1110	-8.750	-18.7	-0.1	0.9	11.1	-9.8	-8.9
3	1111 1101	6.875	6.7	-1.0	-0.9	25.4	6.1	0.6
4	1111 1100	22.500	19.5	-0.1	-0.9	12.8	22.0	-2.5
5	1111 1011	38.125	37.0	0.8	0.9	17.5	37.9	-0.9
6	1111 1010	53.750	50.8	-0.6	-0.5	13.9	53.8	-2.9
7	1111 1001	69.375	74.0	-1.0	0.0	23.2	69.7	4.4
8	1111 1000	85.000	78.2	-1.0	-0.9	4.2	85.6	-7.4
9	1111 0111	100.625	99.9	-0.1	-0.9	21.7	101.5	-1.6
10	1111 0110	116.250	111.9	0.8	0.9	12.0	117.4	-5.5
11	1111 0101	131.875	134.4	-0.1	0.9	22.5	133.3	1.2
12	1111 0100	147.500	151.3	-1.0	-0.9	16.8	149.2	2.1
13	1111 0011	163.125	166.2	-1.0	-0.9	15.0	165.0	1.2
14	1111 0010	178.750	180.3	0.9	-0.1	14.0	180.9	-0.7
15	1111 0001	194.375	201.7	0.8	0.9	21.4	196.8	4.8
16	1111 0000	210.000	210.7	0.0	0.8	9.0	212.7	-2.0
17	1110 1111	225.625	227.3	-1.0	-0.9	16.5	228.6	-1.4
18	1110 1110	241.250	238.6	-0.0	-1.0	11.4	244.5	-5.9
19	1110 1101	256.875	261.9	0.9	1.0	23.2	260.4	1.4
20	1110 1100	272.500	276.7	0.9	0.9	14.9	276.3	0.4
21	1110 1011	288.125	293.8	-1.0	-0.1	17.0	292.2	1.6
22	1110 1010	303.750	306.8	-1.0	-1.0	13.0	308.1	-1.3
23	1110 1001	319.375	330.0	-0.1	-0.9	23.2	324.0	6.0
24	1110 1000	335.000	339.5	0.8	0.8	9.4	339.9	-0.5
25	1110 0111	350.625	354.8	-0.1	1.0	15.3	355.8	-1.0

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 714

1981/11/30 16:31:27 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=10)

NAC TEST 527

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
26	1110 0110	366.250	369.1	-1.0	-1.0	14.3	371.7	-2.7
27	1110 0101	381.875	391.2	-1.0	-0.9	22.2	387.6	3.6
28	1110 0100	397.500	408.8	0.8	-0.1	17.6	403.5	5.3
29	1110 0011	413.125	421.0	0.8	0.9	12.2	419.4	1.6
30	1110 0010	428.750	436.4	-0.0	1.0	15.4	435.3	1.1
31	1110 0001	444.375	458.4	-0.9	-0.9	22.0	451.2	7.2
32	1110 0000	460.000	464.4	0.0	-0.9	6.0	467.1	-2.7
33	1101 1111	475.625	482.5	0.9	1.0	18.1	483.0	-0.5
34	1101 1110	491.250	493.1	0.9	0.9	10.6	498.9	-5.8
35	1101 1101	506.875	519.0	-1.0	-0.0	25.8	514.8	4.2
36	1101 1100	522.500	531.7	-1.0	-1.0	12.7	530.7	1.0
37	1101 1011	538.125	550.0	-0.0	-1.1	18.3	546.6	3.4
38	1101 1010	553.750	560.6	-1.0	0.9	10.6	562.5	-1.9
39	1101 1001	569.375	584.9	-0.1	0.9	24.3	578.4	6.5
40	1101 1000	585.000	592.3	-1.0	-1.0	7.3	594.3	-2.0
41	1101 0111	600.625	611.7	-1.0	-0.9	19.4	610.2	1.5
42	1101 0110	616.250	623.2	1.0	-0.0	11.5	626.1	-2.9
43	1101 0101	631.875	646.2	0.8	0.9	23.0	642.0	4.2
44	1101 0100	647.500	661.9	-0.1	0.9	15.7	657.9	4.0
45	1101 0011	663.125	677.4	-0.8	-0.8	15.5	673.8	3.6
46	1101 0010	678.750	692.2	-0.0	-0.9	14.8	689.7	2.5
47	1101 0001	694.375	713.1	0.9	0.9	20.9	705.6	7.5
48	1101 0000	710.000	725.4	0.8	0.8	12.4	721.5	4.0
49	1100 1111	725.625	737.3	-1.0	0.0	12.9	737.4	0.9
50	1100 1110	741.250	749.3	-1.0	-1.0	11.0	753.3	-4.0
51	1100 1101	756.875	773.6	0.0	-0.9	24.3	769.2	4.4

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 715

1981/11/30 16:31:27 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=10)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
52	1100 1100	772.500	787.6	0.9	0.9	14.0	785.1	2.5
53	1100 1011	788.125	803.1	1.0	0.9	15.5	801.0	2.1
54	1100 1010	803.750	816.5	-0.9	-0.9	13.4	816.9	-0.4
55	1100 1001	819.375	840.1	-1.0	-0.9	23.6	832.8	7.4
56	1100 1000	835.000	852.2	0.8	-0.0	12.1	848.7	3.5
57	1100 0111	850.625	864.8	1.0	1.0	12.6	864.6	0.2
58	1100 0110	866.250	877.6	-0.1	1.0	12.8	880.5	-2.8
59	1100 0101	881.875	901.0	-0.9	-0.9	23.4	896.4	4.7
60	1100 0100	897.500	919.2	-0.7	-0.7	18.2	912.2	6.9
61	1100 0011	913.125	930.1	0.9	1.0	10.9	928.1	2.0
62	1100 0010	928.750	945.3	0.9	0.9	15.2	944.0	1.3
63	1100 0001	944.375	967.5	-1.0	-0.0	22.2	959.9	7.6
64	1100 0000	960.000	977.0	-0.8	-0.8	9.5	975.8	1.2
65	1011 1111	975.625	992.6	0.0	-1.0	15.6	991.7	0.9
66	1011 1110	991.250	1001.3	0.9	0.9	8.7	1007.6	-6.3
67	1011 1101	1006.88	1026.8	0.9	0.9	25.5	1023.5	3.3
68	1011 1100	1022.50	1040.2	-0.9	-1.0	13.3	1039.4	0.7
69	1011 1011	1038.13	1059.1	-0.9	-0.9	18.9	1055.3	3.8
70	1011 1010	1053.75	1070.5	0.9	-0.0	11.4	1071.2	-0.7
71	1011 1001	1069.38	1093.1	1.0	1.0	22.6	1087.1	6.0
72	1011 1000	1085.00	1096.7	-0.1	1.0	3.6	1103.0	-6.3
73	1011 0111	1100.63	1119.9	-0.9	-1.0	23.2	1118.9	1.0
74	1011 0110	1116.25	1131.5	-1.1	-0.9	11.6	1134.8	-3.3
75	1011 0101	1131.88	1153.9	0.9	1.0	22.4	1150.7	3.2
76	1011 0100	1147.50	1169.4	0.9	0.8	15.4	1166.6	2.8
77	1011 0011	1163.13	1186.1	-1.0	-0.0	16.8	1182.5	3.6
78	1011 0010	1178.75	1198.5	-0.9	-0.9	12.3	1198.4	0.1

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 716

1981/11/30 16:31:27 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=1 0)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
79	1011 0001	1194.38	1221.4	-0.0	-1.0	22.9	1214.3	7.1
80	1011 0000	1210.00	1232.1	0.8	0.9	10.7	1230.2	1.9
81	1010 1111	1225.63	1244.7	1.0	1.0	12.6	1246.1	-1.4
82	1010 1110	1241.25	1255.6	-1.0	-1.0	10.9	1262.0	-6.4
83	1010 1101	1256.88	1280.7	-0.9	-1.0	25.1	1277.9	2.8
84	1010 1100	1272.50	1294.4	0.9	-0.0	13.6	1293.8	0.6
85	1010 1011	1288.13	1311.0	1.0	1.0	16.6	1309.7	1.3
86	1010 1010	1303.75	1323.7	0.0	0.8	12.7	1325.6	-1.9
87	1010 1001	1319.38	1346.8	-0.9	-0.9	23.1	1341.5	5.3
88	1010 1000	1335.00	1357.7	-0.9	-0.9	10.8	1357.4	0.3
89	1010 0111	1350.63	1371.7	1.0	1.0	14.0	1373.3	-1.6
90	1010 0110	1366.25	1383.5	1.0	0.8	11.8	1389.2	-5.7
91	1010 0101	1381.88	1407.6	-1.0	-0.0	24.1	1405.1	2.5
92	1010 0100	1397.50	1425.4	-1.0	-1.1	17.9	1421.0	4.5
93	1010 0011	1413.13	1438.6	0.0	-1.0	13.2	1436.9	1.8
94	1010 0010	1428.75	1450.8	0.8	0.7	12.1	1452.8	-2.0
95	1010 0001	1444.38	1473.0	1.0	1.0	22.2	1468.7	4.3
96	1010 0000	1460.00	1483.7	-0.9	-0.9	10.7	1484.6	-0.9
97	1001 1111	1475.63	1498.6	-0.9	-0.9	14.9	1500.5	-1.8
98	1001 1110	1491.25	1507.0	0.9	-0.1	8.3	1516.4	-9.4
99	1001 1101	1506.88	1532.9	1.0	1.0	25.9	1532.3	0.6
100	1001 1100	1522.50	1545.0	-0.1	0.9	12.1	1548.2	-3.2
101	1001 1011	1538.13	1565.0	-1.0	-1.0	20.0	1564.1	0.9
102	1001 1010	1553.75	1576.7	-0.9	-0.9	11.7	1580.0	-3.3
103	1001 1001	1569.38	1598.9	1.0	0.9	22.3	1595.9	3.1
104	1001 1000	1585.00	1604.5	0.8	0.8	15.6	1611.8	-7.2

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 717

1981/11/30 16:31:27 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=10)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
105	1001 0111	1600.63	1625.7	-1.0	-0.0	21.1	1627.7	-2.0
106	1001 0110	1616.25	1637.0	-0.9	-1.0	11.3	1643.6	-6.6
107	1001 0101	1631.88	1660.7	-0.0	-1.0	23.7	1659.5	1.2
108	1001 0100	1647.50	1674.7	0.9	0.9	14.0	1675.3	-0.6
109	1001 0011	1663.13	1690.7	1.0	0.9	15.9	169[illegible]	-0.6
110	1001 0010	1678.75	1703.6	-0.9	-1.0	12.9	170[illegible]	-3.5
111	1001 0001	1694.38	1726.8	-1.0	-1.0	23.2	1723.0	3.8
112	1001 0000	1710.00	1741.4	0.7	0.7	14.5	1738.9	2.4
113	1000 1111	1725.63	1750.2	1.0	1.0	8.8	1754.8	-4.6
114	1000 1110	1741.25	1760.1	-0.0	0.9	9.8	1770.7	-10.7
115	1000 1101	1756.88	1786.4	-0.9	-1.0	26.3	1786.6	-0.2
116	1000 1100	1772.50	1800.5	-0.9	-0.9	14.1	1802.5	-2.0
117	1000 1011	1788.13	1816.4	1.0	1.0	15.9	1818.4	-2.0
118	1000 1010	1803.75	1826.2	0.9	0.9	9.8	1834.3	-8.1
119	1000 1001	1819.38	1852.5	-1.0	0.0	26.2	1850.2	2.3
120	1000 1000	1835.00	1862.7	-0.9	-0.9	10.2	1866.1	-3.5
121	1000 0111	1850.63	1878.1	-0.0	-1.0	15.5	1882.0	-3.9
122	1000 0110	1866.25	1888.8	0.8	0.9	10.6	1897.9	-9.1
123	1000 0101	1881.88	1912.1	1.1	1.1	23.3	1913.8	-1.7
124	1000 0100	1897.50	1930.7	-0.9	-1.0	18.6	1929.7	1.0
125	1000 0011	1913.13	1943.4	-0.9	-0.8	12.7	1945.6	-2.2
126	1000 0010	1928.75	1955.7	1.0	-0.0	12.3	1961.5	-5.8
127	1000 0001	1944.38	1978.1	1.0	1.0	22.5	1977.4	0.7
128	1000 0000	1960.00	1996.5	0.0	0.9	18.3	1993.3	3.2
129	0111 1111	1975.63	2010.3	-0.9	-0.9	13.8	2009.2	1.1
130	0111 1110	1991.25	2019.9	-0.9	-0.9	9.6	2025.1	-5.2

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 718

1981/11/30 16:31:27 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=10)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
131	0111 1101	2006.88	2043.9	1.0	1.1	24.0	2041.0	2.9
132	0111 1100	2022.50	2057.9	1.0	1.0	14.0	2056.9	1.0
133	0111 1011	2038.13	2076.8	-1.0	-0.0	18.9	2072.8	4.0
134	0111 1010	2053.75	2090.3	-0.9	-0.9	13.5	2088.7	1.6
135	0111 1001	2069.38	2111.4	0.0	-0.9	21.1	2104.6	6.8
136	0111 1000	2085.00	2114.5	0.9	0.9	3.1	2120.5	-6.0
137	0111 0111	2100.63	2136.5	0.9	0.9	22.0	2136.4	0.1
138	0111 0110	2116.25	2148.7	-1.0	-1.2	12.2	2152.3	-3.6
139	0111 0101	2131.88	2171.8	-1.0	-0.9	23.1	2168.2	3.7
140	0111 0100	2147.50	2188.0	1.0	0.0	16.1	2184.1	3.9
141	0111 0011	2163.13	2202.9	1.0	1.0	14.9	2200.0	2.9
142	0111 0010	2178.75	2213.9	-0.0	0.9	11.1	2215.9	-1.9
143	0111 0001	2194.38	2238.9	-1.0	-1.0	25.0	2231.8	7.1
144	0111 0000	2210.00	2248.6	-0.8	-0.8	9.7	2247.7	1.0
145	0110 1111	2225.63	2262.3	1.0	1.1	13.6	2263.6	-1.3
146	0110 1110	2241.25	2272.3	1.0	0.9	10.0	2279.5	-7.2
147	0110 1101	2256.88	2297.7	-0.9	0.0	25.5	2295.4	2.4
148	0110 1100	2272.50	2306.0	-0.9	-0.9	8.3	2311.3	-5.3
149	0110 1011	2288.13	2329.7	-0.1	-1.0	23.7	2327.2	2.6
150	0110 1010	2303.75	2343.0	1.0	0.9	13.2	2343.1	-0.1
151	0110 1001	2319.38	2363.3	0.9	1.0	20.4	2359.0	4.4
152	0110 1000	2335.00	2375.4	-0.9	-0.8	12.1	2374.9	0.6
153	0110 0111	2350.63	2390.3	-1.0	-0.9	14.9	2390.8	-0.4
154	0110 0110	2366.25	2400.6	1.0	-0.1	10.3	2406.7	-6.0
155	0110 0101	2381.88	2423.7	0.9	1.0	23.0	2422.5	1.1
156	0110 0100	2397.50	2443.7	0.0	0.9	20.0	2438.4	5.2
157	0110 0011	2413.13	2456.5	-1.0	-1.0	12.8	2454.3	2.2

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 719

1981/11/30 16:31:27 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=LO)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
158	0110 0010	2428.75	2468.0	-0.8	-0.7	11.5	2470.2	-2.2
159	0110 0001	2444.38	2490.7	1.0	1.0	22.6	2486.1	4.5
160	0110 0000	2460.00	2498.5	1.0	0.9	7.9	2502.0	-3.5
161	0101 1111	2475.63	2517.5	-1.8	-0.0	18.9	2517.9	-0.5
162	0101 1110	2491.25	2525.7	-1.1	-1.0	8.2	2533.8	-8.2
163	0101 1101	2506.88	2551.1	0.0	-1.0	25.4	2549.7	1.4
164	0101 1100	2522.50	2564.5	0.5	0.4	13.3	2565.6	-1.2
165	0101 1011	2538.13	2582.2	1.0	1.0	17.7	2581.5	0.6
166	0101 1010	2553.75	2596.0	-1.0	-0.9	13.8	2597.4	-1.4
167	0101 1001	2569.38	2617.4	-1.0	-1.0	21.4	2613.3	4.1
168	0101 1000	2585.00	2624.0	0.8	-0.0	6.6	2629.2	-5.2
169	0101 0111	2600.63	2642.8	0.8	0.9	18.8	2645.1	-2.3
170	0101 0110	2616.25	2653.5	0.0	1.2	10.7	2661.0	-7.5
171	0101 0101	2631.88	2677.8	-0.7	-0.7	24.2	2676.9	0.8
172	0101 0100	2647.50	2695.5	-1.6	-1.6	17.8	2692.8	2.7
173	0101 0011	2663.13	2709.1	1.0	1.0	13.6	2708.7	0.4
174	0101 0010	2678.75	2719.2	0.9	0.9	10.1	2724.6	-5.4
175	0101 0001	2694.38	2745.0	-1.0	-0.0	25.8	2740.5	4.5
176	0101 0000	2710.00	2758.5	-0.9	-0.9	13.4	2756.4	2.0
177	0100 1111	2725.63	2769.7	0.0	-1.0	11.2	2772.3	-2.6
178	0100 1110	2741.25	2778.1	0.9	0.9	8.4	2788.2	-10.1
179	0100 1101	2756.88	2803.1	0.9	0.9	25.0	2804.1	-1.0
180	0100 1100	2772.50	2820.4	-0.9	-1.0	17.3	2820.0	0.4
181	0100 1011	2788.13	2836.1	-1.0	-0.9	15.7	2835.9	0.2
182	0100 1010	2803.75	2848.3	1.0	-0.1	12.2	2851.8	-3.5
183	0100 1001	2819.38	2869.4	1.0	1.0	21.1	2867.7	1.8

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 720

1981/11/30 16:31:27 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=10)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
184	0100 1000	2835.00	2883.3	-4.6	1.0	13.9	2883.6	-0.2
185	0100 0111	2850.63	2896.8	-1.3	-1.2	13.5	2899.5	-2.6
186	0100 0110	2866.25	2907.8	-1.1	-1.0	11.0	2915.4	-7.5
187	0100 0101	2881.88	2930.1	1.0	1.1	22.3	2931.3	-1.2
188	0100 0100	2897.50	2950.2	0.9	0.9	20.1	2947.2	3.0
189	0100 0011	2913.13	2963.1	-1.0	-0.0	12.9	2963.1	0.1
190	0100 0010	2928.75	2973.9	-1.0	-0.9	10.8	2979.0	-5.0
191	0100 0001	2944.38	2998.2	-0.0	-1.0	24.2	2994.9	3.3
192	0100 0000	2960.00	3010.6	0.9	0.6	12.4	3010.8	-0.1
193	0011 1111	2975.63	3022.5	1.0	1.0	11.9	3026.7	-4.2
194	0011 1110	2991.25	3031.9	-1.0	-1.0	9.4	3042.6	-10.6
195	0011 1101	3006.88	3058.1	-1.1	-1.0	26.2	3058.5	-0.3
196	0011 1100	3022.50	3070.7	1.0	0.0	12.6	3074.4	-3.6
197	0011 1011	3038.13	3089.1	1.1	1.2	18.4	3090.3	-1.1
198	0011 1010	3053.75	3101.9	-0.0	0.9	12.7	3106.2	-4.3
199	0011 1001	3069.38	3124.8	-1.0	-1.0	22.9	3122.1	2.7
200	0011 1000	3085.00	3128.7	-0.9	-1.0	3.9	3138.0	-9.3
201	0011 0111	3100.63	3150.5	0.9	1.0	21.8	3153.9	-3.4
202	0011 0110	3116.25	3161.3	0.6	0.7	10.8	3169.8	-8.5
203	0011 0101	3131.88	3186.0	-1.1	0.0	24.7	3185.6	0.3
204	0011 0100	3147.50	3202.6	-0.9	-0.9	16.6	3201.5	1.1
205	0011 0011	3163.13	3218.3	-0.0	-1.0	15.6	3217.4	0.8
206	0011 0010	3178.75	3231.8	1.1	1.1	13.5	3233.3	-1.6
207	0011 0001	3194.38	3252.4	0.9	1.0	20.6	3249.2	3.1
208	0011 0000	3210.00	3265.8	-1.0	-1.0	13.5	3265.1	0.7
209	0010 1111	3225.63	3278.3	-1.0	-1.0	12.5	3281.0	-2.7

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 721

1981/11/30 16:31:27 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-B A/D THRESHOLD TEST (BAND= 4, SENSOR=10)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
210	0010 1110	3241.25	3286.2	0.8	0.1	7.9	3296.9	-10.7
211	0010 1101	3256.88	3312.0	0.9	1.0	25.8	3312.8	-0.8
212	0010 1100	3272.50	3328.1	-0.1	1.0	16.1	3328.7	-0.6
213	0010 1011	3288.13	3345.4	-1.0	-1.0	17.2	3344.6	0.8
214	0010 1010	3303.75	3358.5	-1.0	-1.0	13.1	3360.5	-2.0
215	0010 1001	3319.38	3378.8	0.9	1.0	20.3	3376.4	2.4
216	0010 1000	3335.00	3389.4	-3.5	1.1	10.6	3392.3	-2.9
217	0010 0111	3350.63	3406.7	-1.1	-0.1	17.3	3408.2	-1.5
218	0010 0110	3366.25	3417.2	-1.0	-1.0	10.4	3424.1	-7.0
219	0010 0101	3381.88	3441.3	-0.1	-1.0	24.1	3440.0	1.2
220	0010 0100	3397.50	3460.0	0.9	1.0	18.7	3455.9	4.0
221	0010 0011	3413.13	3472.5	1.2	1.2	12.5	3471.8	0.6
222	0010 0010	3428.75	3483.3	-1.0	-1.0	10.8	3487.7	-4.4
223	0010 0001	3444.38	3508.7	-0.8	-0.7	25.4	3503.6	5.1
224	0010 0000	3460.00	3519.6	1.0	0.0	10.9	3519.5	0.1
225	0001 1111	3475.63	3533.6	0.9	1.0	13.9	3535.4	-1.8
226	0001 1110	3491.25	3541.5	-0.1	0.9	8.0	3551.3	-9.8
227	0001 1101	3506.88	3569.4	-1.1	-1.0	27.8	3567.2	2.2
228	0001 1100	3522.50	3583.3	-1.1	-1.1	13.9	3583.1	0.2
229	0001 1011	3538.13	3601.0	1.0	1.1	17.7	3599.0	2.0
230	0001 1010	3553.75	3613.0	0.6	0.6	12.0	3614.9	-1.9
231	0001 1001	3569.38	3636.6	-1.2	0.0	23.6	3630.8	5.8
232	0001 1000	3585.00	3641.0	-1.0	-1.0	4.3	3646.7	-5.7
233	0001 0111	3600.63	3663.6	-0.1	-1.0	22.6	3662.6	1.0
234	0001 0110	3616.25	3672.9	1.0	1.0	9.3	3678.5	-5.6
235	0001 0101	3631.88	3697.3	0.9	1.0	24.4	3694.4	2.9
236	0001 0100	3647.50	3715.4	-1.2	-1.1	18.1	3710.3	5.1

ORIGINAL PAGE IS
OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 722

1981/11/30 16:31:27 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-B A/D THRESHOLD TEST (BAND= 4, SENSOR=10)

HAC TEST 27

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
237	0001 0011	3663.13	3731.0	-1.1	-1.0	15.6	3726.2	4.8
238	0001 0010	3678.75	3744.0	0.8	0.1	13.0	3742.1	2.0
239	0001 0001	3694.38	3765.1	0.8	0.9	21.0	3758.0	7.1
240	0001 0000	3710.00	3781.9	-0.1	0.9	16.8	3773.9	8.0
241	0000 1111	3725.63	3791.0	-0.4	-0.3	9.1	3789.8	1.2
242	0000 1110	3741.25	3799.9	-0.9	-1.0	8.9	3805.7	-5.7
243	0000 1101	3756.88	3825.4	0.8	1.0	25.5	3821.6	3.9
244	0000 1100	3772.50	3841.4	0.9	0.9	16.0	3837.5	4.0
245	0000 1011	3788.13	3859.2	-1.1	0.1	17.8	3853.4	5.9
246	0000 1010	3803.75	3871.0	-1.1	-1.0	11.7	3869.3	1.7
247	0000 1001	3819.38	3893.9	-0.1	-1.0	22.9	3885.2	8.8
248	0000 1000	3835.00	3902.5	0.9	1.0	8.5	3901.1	1.4
249	0000 0111	3850.63	3920.0	0.0	1.1	17.5	3917.0	3.0
250	0000 0110	3866.25	3931.6	-1.1	-1.3	11.6	3932.8	-1.2
251	0000 0101	3881.88	3955.8	-1.2	-0.9	24.1	3948.7	7.0
252	0000 0100	3897.50	3974.4	0.9	-0.0	18.6	3964.6	9.7
253	0000 0011	3913.13	3987.6	0.9	1.0	13.3	3980.5	7.1
254	0000 0010	3928.75	3996.6	-0.1	0.9	9.0	3996.4	0.2
255	0000 0001	3944.38	4024.1	-1.2	-1.0	27.4	4012.3	11.7

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 723
1981/11/30 16:37:49 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=11)

S U M M A R Y

CHECK 1) RMS ERROR, 2) THRESHOLD INCREMENT(+/- 0.0 <= THRH INC <= 31.2)
THE REMAINING DATA ARE FOR INFORMATION ONLY

BEST FIT STRAIGHT LINE IS: Y =15.887X -42.1MV

DEVIATION OF SLOPE FROM IDEAL IS: 1.674%
OFFSET IS:-42.1MV
COEFFICIENT OF DETERMINATION IS: R**2= .99998700
ANALOG INPUT DURING DC RESTORE IS:64.4MV

RMS ERROR = 4.457MV REQMT: RMS ERROR <=7.812MV

THRESHOLD INCREMENT MEASUREMENT

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
28.2MV	243	15.941MV	2.7MV	136	6.083MV

LOWER LIMIT AT OUTPUT LEVELS RATIO = 1 : 1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
1.8MV	199	-0.287MV	-8.9MV	193	1.460MV

UPPER LIMIT AT OUTPUT LEVELS RATIO = 1 : 1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
1.8MV	199	-0.058MV	-1.4MV	120	.778MV

TEST PASSED

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 724

1981/11/30 16:38:03 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-4 A/D THRESHOLD TEST (BAND= 4, SENSOR=1 1)

HAC TEST 127

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
THE FOLLOWING DATA ARE FOR INFORMATION ONLY								
1	1111 1111	-24.375	-28.9	-1.4	-0.7		-26.2	-2.7
2	1111 1110	-8.750	-18.5	0.3	0.0	10.5	-10.3	-8.1
3	1111 1101	6.875	5.9	1.0	1.2	24.4	5.6	0.3
4	1111 1100	22.500	19.3	-0.1	0.7	13.4	21.4	-2.2
5	1111 1011	38.125	37.3	-0.9	-0.9	18.0	37.3	-0.0
6	1111 1010	53.750	50.0	-0.8	-0.8	12.7	53.2	-3.2
7	1111 1001	69.375	73.1	0.8	0.9	23.1	69.1	4.0
8	1111 1000	85.000	77.8	0.7	0.6	4.7	85.0	-7.2
9	1111 0111	100.625	99.0	-0.7	-0.1	21.2	100.9	-1.8
10	1111 0110	116.250	112.3	-0.4	-0.4	13.3	116.8	-4.4
11	1111 0101	131.875	135.6	-0.1	-1.1	23.2	132.6	2.9
12	1111 0100	147.500	150.8	0.6	0.7	15.2	148.5	2.3
13	1111 0011	163.125	164.6	0.8	0.8	13.8	164.4	0.2
14	1111 0010	178.750	180.9	-0.7	-0.6	16.3	180.3	0.6
15	1111 0001	194.375	202.4	-0.9	-0.9	21.4	196.2	6.2
16	1111 0000	210.000	211.5	1.0	0.0	9.1	212.1	-0.6
17	1110 1111	225.625	225.9	0.7	0.7	14.4	228.0	-2.1
18	1110 1110	241.250	237.6	-0.1	0.3	11.7	243.9	-6.2
19	1110 1101	256.875	262.6	-1.1	-0.9	24.9	259.7	2.8
20	1110 1100	272.500	278.0	-0.6	-0.7	15.4	275.6	2.4
21	1110 1011	288.125	291.9	0.9	0.9	13.9	291.5	0.4
22	1110 1010	303.750	305.4	0.7	0.7	13.5	307.4	-2.0
23	1110 1001	319.375	329.5	-0.9	-0.0	24.1	323.3	6.2
24	1110 1000	335.000	338.1	-0.7	-0.6	8.6	339.2	-1.1
25	1110 0111	350.625	354.4	0.0	-0.8	16.3	355.1	-0.7

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 725

1981/11/30 16:38:03 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=11)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
26	1110 0110	366.250	367.8	0.3	0.3	13.4	370.9	-3.2
27	1110 0101	381.875	390.0	0.9	1.0	22.7	386.8	3.2
28	1110 0100	397.500	409.6	-0.8	-0.9	19.6	402.7	6.9
29	1110 0011	413.125	420.8	-0.9	-0.9	11.2	418.6	2.2
30	1110 0010	428.750	436.2	0.3	-0.1	15.4	434.5	1.7
31	1110 0001	444.375	456.7	0.6	0.7	20.5	450.4	6.3
32	1110 0000	460.000	462.7	-0.0	0.9	6.0	466.3	-3.5
33	1101 1111	475.625	482.6	-0.9	-0.9	19.9	482.2	0.5
34	1101 1110	491.250	493.2	-0.7	-0.6	10.5	498.0	-4.9
35	1101 1101	506.875	517.3	0.7	0.8	24.1	513.9	3.4
36	1101 1100	522.500	530.7	0.6	0.6	13.4	529.8	0.9
37	1101 1011	538.125	548.4	-0.9	-0.1	17.7	545.7	2.7
38	1101 1010	553.750	560.5	-0.7	-0.7	12.1	561.6	-1.1
39	1101 1001	569.375	585.1	-0.1	-0.9	24.6	577.5	7.6
40	1101 1000	585.000	592.1	0.6	0.6	7.0	593.4	-1.2
41	1101 0111	600.625	609.4	0.6	0.5	17.3	609.2	0.2
42	1101 0110	616.250	622.8	-0.3	-0.3	13.4	625.1	-2.3
43	1101 0101	631.875	646.2	-1.1	-1.0	23.3	641.0	5.1
44	1101 0100	647.500	661.3	0.9	0.0	15.1	656.9	4.4
45	1101 0011	663.125	675.3	0.9	0.9	14.0	672.8	2.5
46	1101 0010	678.750	690.4	-0.0	0.7	15.0	688.7	1.7
47	1101 0001	694.375	712.5	-0.9	-0.9	22.2	704.6	8.0
48	1101 0000	710.000	726.3	-1.0	-1.0	13.7	720.4	5.8
49	1100 1111	725.625	736.0	0.8	0.8	9.7	736.3	-0.3
50	1100 1110	741.250	747.4	0.3	0.4	11.4	752.2	-4.8
51	1100 1101	756.875	772.2	-0.9	0.0	24.8	768.1	4.1

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 726

1981/11/30 16:38:03 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-4 A/D THRESHOLD TEST (BAND= 4, SENSOR=1 1)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
52	1100 1100	772.500	787.8	-0.6	-0.7	15.6	784.0	3.8
53	1100 1011	788.125	802.4	0.0	-0.9	14.7	799.9	2.6
54	1100 1010	803.750	814.4	0.8	0.8	12.0	815.8	-1.4
55	1100 1001	819.375	838.0	0.8	0.8	23.6	831.7	6.3
56	1100 1000	835.000	850.6	-0.7	-0.8	12.6	847.5	3.0
57	1100 0111	850.625	863.6	-0.9	-0.8	13.0	863.4	0.1
58	1100 0110	866.250	876.5	0.3	-0.0	13.0	879.3	-2.8
59	1100 0101	881.875	898.7	1.0	1.0	22.1	895.2	3.5
60	1100 0100	897.500	917.8	-0.1	0.8	19.1	911.1	6.7
61	1100 0011	913.125	929.6	-1.0	-1.0	11.8	927.0	2.6
62	1100 0010	928.750	944.8	-0.6	-0.6	15.3	942.9	2.0
63	1100 0001	944.375	964.7	0.8	0.7	19.9	958.7	5.9
64	1100 0000	960.000	975.7	1.0	1.0	11.0	974.6	1.0
65	1011 1111	975.625	991.8	-0.9	-0.0	16.1	990.5	1.3
66	1011 1110	991.250	1000.6	-0.8	-0.8	8.8	1006.4	-5.8
67	1011 1101	1006.88	1026.6	-0.1	-1.1	26.0	1022.3	4.3
68	1011 1100	1022.50	1038.4	0.8	0.8	11.7	1038.2	0.2
69	1011 1011	1038.13	1056.4	0.9	0.9	18.0	1054.1	2.3
70	1011 1010	1053.75	1068.2	-1.7	1.0	11.8	1070.0	-1.8
71	1011 1001	1069.38	1092.7	-1.0	-1.0	24.6	1085.8	6.9
72	1011 1000	1085.00	1096.1	0.7	-0.0	13.4	1101.7	-5.6
73	1011 0111	1100.63	1117.7	0.7	0.7	21.6	1117.6	0.1
74	1011 0110	1116.25	1128.9	0.0	0.4	11.2	1133.5	-4.6
75	1011 0101	1131.88	1153.3	-0.8	-0.7	24.3	1149.4	3.9
76	1011 0100	1147.50	1169.3	-0.9	-1.0	16.0	1165.3	4.0
77	1011 0011	1163.13	1182.9	0.7	0.7	13.6	1181.2	1.8
78	1011 0010	1178.75	1196.1	0.8	0.8	13.2	1197.0	-0.9

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 727
1981/11/30 16:38:03 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-B A/D THRESHOLD TEST (BAND= 4, SENSOR=11)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRATGHT LINE POINT	DEVIATION
79	1011 0001	1194.38	1219.8	-0.9	0.0	23.7	1212.9	6.9
80	1011 0000	1210.00	1232.6	-0.9	-0.9	12.8	1228.8	3.8
81	1010 1111	1225.63	1244.4	-0.0	-0.9	11.8	1244.7	-0.3
82	1010 1110	1241.25	1253.1	0.7	0.6	8.7	1260.6	-7.5
83	1010 1101	1256.88	1278.2	0.9	0.9	25.1	1276.5	1.8
84	1010 1100	1272.50	1294.2	-0.8	0.0	15.9	1292.4	1.8
85	1010 1011	1288.13	1309.6	-0.7	-0.8	15.4	1308.3	1.4
86	1010 1010	1303.75	1319.6	0.7	-0.1	9.9	1324.1	-4.6
87	1010 1001	1319.38	1344.3	1.1	1.0	24.7	1340.0	4.3
88	1010 1000	1335.00	1355.0	0.0	0.8	10.6	1355.9	-1.0
89	1010 0111	1350.63	1370.7	-0.7	-0.8	15.8	1371.8	-1.1
90	1010 0110	1366.25	1382.2	-0.4	-0.4	11.4	1387.7	-5.5
91	1010 0101	1381.88	1404.9	1.0	-0.0	22.7	1403.6	1.4
92	1010 0100	1397.50	1423.3	0.8	0.7	18.4	1419.5	3.9
93	1010 0011	1413.13	1435.3	-0.3	0.0	12.0	1435.3	0.0
94	1010 0010	1428.75	1450.0	-0.8	-0.8	14.6	1451.2	-1.2
95	1010 0001	1444.38	1472.0	0.0	-0.8	22.0	1467.1	4.9
96	1010 0000	1460.00	1480.9	1.2	1.2	8.9	1483.0	-2.1
97	1001 1111	1475.63	1496.5	0.8	0.7	15.6	1498.9	-2.4
98	1001 1110	1491.25	1505.9	-0.8	-0.0	9.4	1514.8	-8.9
99	1001 1101	1506.88	1531.8	-0.9	-1.0	25.9	1530.7	1.2
100	1001 1100	1522.50	1543.9	0.6	-0.0	12.0	1546.6	-2.7
101	1001 1011	1538.13	1561.8	0.8	0.7	17.9	1562.4	-0.6
102	1001 1010	1553.75	1573.1	-1.7	-1.1	11.3	1578.3	-5.2
103	1001 1001	1569.38	1598.2	-1.3	-1.3	25.0	1594.2	3.9
104	1001 1000	1585.00	1604.9	-0.9	-0.9	6.7	1610.1	-5.2

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 728

1981/11/30 16:38:03 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=11)

HAC TEST 627

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
105	1001 0111	1600.63	1622.9	0.8	-0.1	18.1	1676.0	-3.1
106	1001 0110	1616.25	1634.2	0.3	0.3	11.3	1641.9	-7.6
107	1001 0101	1631.88	1658.7	-1.0	-0.1	24.5	1657.8	0.9
108	1001 0100	1647.50	1674.4	-0.9	-0.9	15.7	1673.6	0.8
109	1001 0011	1663.13	1688.7	-0.0	-0.9	14.3	1689.5	-0.8
110	1001 0010	1678.75	1701.0	0.7	0.7	12.2	1705.4	-4.4
111	1001 0001	1694.38	1724.1	1.0	0.9	23.1	1721.3	2.8
112	1001 0000	1710.00	1741.5	-1.0	0.0	17.4	1737.2	4.3
113	1000 1111	1725.63	1749.5	-0.9	-0.9	8.0	1753.1	-3.6
114	1000 1110	1741.25	1758.0	0.8	0.0	8.5	1769.0	-11.0
115	1000 1101	1756.88	1783.1	0.9	1.0	25.1	1784.9	-1.8
116	1000 1100	1772.50	1798.5	-0.0	0.6	15.4	1800.7	-2.3
117	1000 1011	1788.13	1814.6	-0.8	-0.8	16.1	1816.6	-2.1
118	1000 1010	1803.75	1825.1	-0.7	-0.8	10.5	1832.5	-7.4
119	1000 1001	1819.38	1849.5	0.9	-0.0	24.3	1848.4	1.1
120	1000 1000	1835.00	1863.1	0.8	-1.4	13.6	1864.3	-1.2
121	1000 0111	1850.63	1875.6	-0.8	-0.1	12.6	1880.2	-4.5
122	1000 0110	1866.25	1887.1	-0.4	-0.4	11.5	1896.1	-9.0
123	1000 0101	1881.88	1910.8	-0.2	-1.0	23.7	1911.9	-1.2
124	1000 0100	1897.50	1928.4	0.9	0.8	17.6	1927.8	0.6
125	1000 0011	1913.13	1939.6	1.2	1.2	11.2	1943.7	-4.1
126	1000 0010	1928.75	1954.7	-0.8	-0.1	15.0	1959.6	-4.9
127	1000 0001	1944.38	1977.0	-0.9	-1.0	22.3	1975.5	1.5
128	1000 0000	1960.00	1994.4	1.0	-0.0	17.4	1991.4	3.0
129	0111 1111	1975.63	2007.9	-7.1	1.0	13.6	2007.3	0.7
130	0111 1110	1991.25	2017.1	-0.1	0.8	9.1	2023.1	-6.1

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 729

1981/11/30 16:38:03 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=11)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
131	0111 1101	2006.88	2043.8	-1.1	-1.1	26.7	2039.0	4.7
132	0111 1100	2022.50	2057.4	-1.1	-1.1	13.6	2054.9	2.5
133	0111 1011	2038.13	2073.5	-6.3	-0.0	16.1	2070.8	2.7
134	0111 1010	2053.75	2087.1	1.1	1.1	13.6	2086.7	0.4
135	0111 1001	2069.38	2110.1	-1.2	-0.1	22.9	2102.6	7.5
136	0111 1000	2085.00	2112.7	-0.9	-0.9	2.7	2118.5	-5.7
137	0111 0111	2100.63	2135.5	-7.8	-0.7	22.8	2134.4	1.1
138	0111 0110	2116.25	2145.9	0.1	0.0	10.4	2150.2	-4.4
139	0111 0101	2131.88	2169.6	1.1	1.2	23.7	2166.1	3.5
140	0111 0100	2147.50	2187.6	-1.0	-0.1	17.9	2182.0	5.6
141	0111 0011	2163.13	2200.9	-0.9	-0.9	13.4	2197.9	3.0
142	0111 0010	2178.75	2212.1	0.6	-0.1	11.2	2213.8	-1.7
143	0111 0001	2194.38	2235.9	0.9	0.9	23.8	2229.7	6.2
144	0111 0000	2210.00	2246.4	-0.0	1.4	10.5	2245.6	0.8
145	0110 1111	2225.63	2261.6	-0.9	-0.9	15.3	2261.4	0.2
146	0110 1110	2241.25	2271.2	-0.8	-0.8	9.5	2277.3	-6.2
147	0110 1101	2256.88	2295.4	1.2	-0.1	24.2	2293.2	2.1
148	0110 1100	2272.50	2303.3	0.6	0.6	7.9	2309.1	-5.8
149	0110 1011	2288.13	2326.8	-0.8	-0.1	23.5	2325.0	1.8
150	0110 1010	2303.75	2341.7	-0.9	-0.9	14.9	2340.9	0.8
151	0110 1001	2319.38	2362.6	0.0	-1.2	20.9	2356.8	5.8
152	0110 1000	2335.00	2372.6	-1.0	-0.8	10.0	2372.7	-0.0
153	0110 0111	2350.63	2387.3	-6.8	0.3	14.6	2388.5	-1.3
154	0110 0110	2366.25	2398.8	-0.5	-0.0	11.5	2404.4	-5.6
155	0110 0101	2381.88	2423.3	-1.1	-1.2	24.5	2420.3	3.0
156	0110 0100	2397.50	2442.0	0.7	-0.0	18.7	2436.2	5.8
157	0110 0011	2413.13	2452.6	0.8	0.8	10.5	2452.1	0.5

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 730
1981/11/30 16:38:03 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=11)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
158	0110 0010	2428.75	2465.3	0.0	0.8	12.7	2468.0	-2.7
159	0110 0001	2444.38	2489.4	-1.1	-1.1	24.1	2483.9	5.5
160	0110 0000	2460.00	2496.4	-1.2	-1.2	7.0	2499.7	-3.3
161	0101 1111	2475.63	2514.0	-7.5	-0.1	17.6	2515.6	-1.6
162	0101 1110	2491.25	2522.5	0.9	0.8	8.5	2531.5	-9.0
163	0101 1101	2506.88	2549.8	-1.3	-1.1	27.3	2547.4	2.4
164	0101 1100	2522.50	2554.4	-0.7	-0.8	4.6	2563.3	-8.9
165	0101 1011	2538.13	2580.2	-7.4	-0.9	25.7	2579.2	1.0
166	0101 1010	2553.75	2592.8	1.0	1.0	12.6	2595.1	-2.3
167	0101 1001	2569.38	2614.9	1.1	1.0	22.1	2611.0	3.9
168	0101 1000	2585.00	2621.3	-0.6	0.0	6.5	2626.8	-5.5
169	0101 0111	2600.63	2641.5	-0.8	-0.8	20.1	2642.7	-1.3
170	0101 0110	2616.25	2651.4	0.0	-0.2	10.0	2658.6	-7.2
171	0101 0101	2631.88	2675.5	1.1	1.2	24.0	2674.5	1.0
172	0101 0100	2647.50	2692.8	-0.0	0.9	17.3	2690.4	2.4
173	0101 0011	2663.13	2706.8	-0.9	-0.9	14.0	2706.3	0.5
174	0101 0010	2678.75	2717.8	-0.7	-0.8	11.0	2722.2	-4.4
175	0101 0001	2694.38	2741.7	0.6	-0.0	23.9	2738.0	3.6
176	0101 0000	2710.00	2756.2	1.0	1.0	14.5	2753.9	2.3
177	0100 1111	2725.63	2767.6	-1.0	-0.0	11.4	2769.8	-2.2
178	0100 1110	2741.25	2776.6	-0.8	-0.8	9.0	2785.7	-9.1
179	0100 1101	2756.88	2802.4	-0.0	-1.1	25.8	2801.6	0.9
180	0100 1100	2772.50	2809.4	0.6	0.7	6.9	2817.5	-8.1
181	0100 1011	2788.13	2832.0	0.8	0.8	22.6	2833.4	-1.3
182	0100 1010	2803.75	2847.0	-0.9	0.1	14.9	2849.3	-2.3
183	0100 1001	2819.38	2868.6	-1.2	-1.1	21.6	2865.1	3.5

ORIGINAL PAGE IS
OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 731

1981/11/30 16:38:03 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=11)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
184	0100 1000	2835.00	2881.1	1.1	0.0	12.5	2881.0	0.1
185	0100 0111	2850.63	2893.4	0.7	0.7	12.3	2896.9	-3.5
186	0100 0110	2866.25	2903.9	-0.0	0.7	10.5	2912.8	-8.9
187	0100 0101	2881.88	2929.4	-1.4	-1.4	25.6	2928.7	0.8
188	0100 0100	2897.50	2949.0	-0.9	-0.8	19.5	2944.6	4.4
189	0100 0011	2913.13	2958.7	0.7	-0.1	9.8	2960.5	1.7
190	0100 0010	2928.75	2970.7	0.7	0.7	11.9	2976.3	-5.7
191	0100 0001	2944.38	2995.6	-1.1	-0.1	24.9	2992.2	3.4
192	0100 0000	2960.00	3008.3	-1.1	-1.1	12.7	3008.1	0.2
193	0011 1111	2975.63	3021.7	-8.9	-1.0	13.4	3024.0	-2.3
194	0011 1110	2991.25	3028.4	0.9	0.7	6.7	3039.9	-11.5
195	0011 1101	3006.88	3055.4	1.1	1.2	27.0	3055.8	-0.4
196	0011 1100	3022.50	3069.7	-1.1	0.0	14.2	3071.7	-2.0
197	0011 1011	3038.13	3087.3	-0.7	-0.7	17.7	3087.5	-0.2
198	0011 1010	3053.75	3099.0	1.1	0.1	11.7	3103.4	-4.4
199	0011 1001	3069.36	3121.4	1.8	1.8	22.4	3119.3	2.1
200	0011 1000	3085.00	3124.2	0.0	1.0	2.8	3135.2	-11.0
201	0011 0111	3100.63	3149.2	-1.0	-0.8	24.9	3151.1	-1.9
202	0011 0110	3116.25	3158.4	0.5	0.5	9.2	3167.0	-8.6
203	0011 0101	3131.88	3183.1	0.9	-0.0	24.7	3182.9	0.2
204	0011 0100	3147.50	3199.6	0.9	0.9	16.5	3198.8	0.9
205	0011 0011	3163.13	3214.8	-0.9	-0.0	15.2	3214.6	0.2
206	0011 0010	3178.75	3224.6	-0.9	-0.9	9.8	3230.5	-5.9
207	0011 0001	3194.38	3250.5	0.0	-0.8	25.9	3246.4	4.1
208	0011 0000	3210.00	3263.5	0.9	0.9	12.9	3262.3	1.2
209	0010 1111	3225.63	3274.7	1.6	1.6	11.2	3278.2	-3.5

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 732
1981/11/30 16:38:03 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=11)

HAC TEST 327

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
210	0010 1110	3241.25	3284.4	-0.9	-0.1	9.7	3294.1	-9.6
211	0010 1101	3256.88	3311.0	-0.9	-0.9	26.5	3310.0	1.0
212	0010 1100	3272.50	3316.6	0.5	-0.0	5.6	3325.8	-9.2
213	0010 1011	3288.13	3341.3	0.7	0.7	24.6	3341.7	-0.4
214	0010 1010	3303.75	3354.9	-0.1	0.4	13.6	3357.6	-2.7
215	0010 1001	3319.38	3378.1	-1.4	-1.2	23.2	3373.5	4.6
216	0010 1000	3335.00	3387.8	-1.1	-1.1	9.7	3389.4	-1.6
217	0010 0111	3350.63	3403.2	0.5	-0.1	15.4	3405.3	-2.1
218	0010 0110	3366.25	3413.1	0.4	0.4	9.9	3421.2	-8.1
219	0010 0101	3381.88	3439.3	-1.1	0.0	26.2	3437.1	2.2
220	0010 0100	3397.50	3458.3	-0.8	-0.8	19.1	3452.9	5.4
221	0010 0011	3413.13	3470.0	-0.1	-0.9	11.6	3468.8	1.1
222	0010 0010	3428.75	3479.7	0.8	0.7	9.7	3484.7	-5.1
223	0010 0001	3444.38	3504.9	1.1	1.3	25.3	3500.6	4.3
224	0010 0000	3460.00	3517.5	-1.5	-0.9	12.6	3516.5	1.0
225	0001 1111	3475.63	3532.4	-1.3	-1.3	14.8	3532.4	-0.0
226	0001 1110	3491.25	3538.6	0.8	-0.1	6.3	3548.3	-9.6
227	0001 1101	3506.88	3566.2	1.0	1.1	27.6	3564.1	2.1
228	0001 1100	3522.50	3580.0	-0.1	0.6	13.8	3580.0	-0.0
229	0001 1011	3538.13	3598.5	-1.2	-1.2	18.5	3595.9	2.6
230	0001 1010	3553.75	3610.9	-1.3	-1.2	12.3	3611.8	-0.9
231	0001 1001	3569.38	3633.4	1.0	0.0	22.5	3627.7	5.7
232	0001 1000	3585.00	3639.0	0.8	0.8	5.6	3643.6	-4.5
233	0001 0111	3600.63	3660.8	-0.9	-0.0	21.8	3659.5	1.3
234	0001 0110	3616.25	3670.2	-0.3	-0.3	9.4	3675.4	-5.1
235	0001 0101	3631.88	3696.3	-0.2	-1.1	26.0	3691.2	5.0
236	0001 0100	3647.50	3712.0	0.5	0.7	15.7	3707.1	4.8

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 733

1981/11/30 16:38:03 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-B A/D THRESHOLD TEST (BAND= 4, SENSOR=11)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
237	0001 0011	3663.13	3726.2	0.2	0.2	14.3	3723.0	3.2
238	0001 0010	3678.75	3736.3	-0.9	-0.0	10.1	3738.9	-2.6
239	0001 0001	3694.38	3763.4	-1.3	-1.0	27.1	3754.8	8.6
240	0001 0000	3710.00	3779.7	0.9	0.1	16.3	3770.7	9.1
241	0000 1111	3725.63	3788.1	0.9	0.9	8.4	3786.6	1.5
242	0000 1110	3741.25	3796.1	-0.1	0.7	8.0	3802.4	-6.3
243	0000 1101	3756.88	3824.3	-1.4	-1.2	28.2	3818.3	5.9
244	0000 1100	3772.50	3839.2	-0.3	-0.2	14.9	3834.2	5.0
245	0000 1011	3788.13	3854.6	0.7	-0.1	15.4	3850.1	4.5
246	0000 1010	3803.75	3867.4	0.4	0.6	12.8	3866.0	1.4
247	0000 1001	3819.38	3891.6	-1.1	-0.0	24.1	3881.9	9.7
248	0000 1000	3835.00	3905.9	-1.1	-0.9	14.3	3897.8	8.1
249	0000 0111	3850.63	3917.8	-0.1	-0.8	12.0	3913.7	4.2
250	0000 0110	3866.25	3926.8	0.4	0.4	9.0	3929.5	2.7
251	0000 0101	3881.88	3952.2	0.0	1.2	25.4	3945.4	6.8
252	0000 0100	3897.50	3972.5	-0.8	0.0	20.3	3961.3	11.2
253	0000 0011	3913.13	3984.4	-1.0	-0.9	11.9	3977.2	7.2
254	0000 0010	3928.75	3994.4	-0.1	-0.8	10.0	3993.1	1.3
255	0000 0001	3944.38	4020.0	0.9	1.0	25.6	4009.0	11.0

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 734
1981/11/30 16:44:25 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

HAC TEST 527

10/30/81

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=12)

S U M M A R Y

CHECK 1) RMS ERROR, 2) THRESHOLD INCREMENT(+/- 0.0 <= THRH INC <= 31.2)
THE REMAINING DATA ARE FOR INFORMATION ONLY

BEST FIT STRAIGHT LINE IS: Y =15.873X -42.1MV

DEVIATION OF SLOPE FROM IDEAL IS: 1.590%
OFFSET IS:-42.1MV
COEFFICIENT OF DETERMINATION IS: R**2= .99998710
ANALOG INPUT DURING DC RESTORE IS:64.5MV

RMS ERROR = 4.166MV REQMT: RMS ERROR <=7.812MV

THRESHOLD INCREMENT MEASUREMENT

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
27.7MV	277	15.931MV	3.6MV	200	5.470MV

LOWER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
1.4MV	196	-0.073MV	-4.2MV	238	.858MV

UPPER LIMIT AT OUTPUT LEVELS RATIO = 1 :1

MAXIMUM	THRESHOLD #	AVERAGE	MINIMUM	THRESHOLD #	STANDARD DEVIATION
1.3MV	239	-0.019MV	-1.2MV	138	.792MV

TEST PASSED

ORIGINAL PAGE IS OF POOR QUALITY

1981/11/30 16:44:39 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=17)

HRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
THE FOLLOWING DATA ARE FOR INFORMATION ONLY								
1	1111 1111	-24.375	-29.6	0.2	0.9		-26.2	-3.4
2	1111 1110	-8.750	-17.6	-1.0	-0.0	12.1	-10.4	-7.2
3	1111 1101	6.875	6.6	-0.9	-0.8	24.1	5.5	1.1
4	1111 1100	22.500	19.5	-0.1	-0.9	13.0	21.4	-1.8
5	1111 1011	38.125	36.6	0.6	0.7	17.0	37.2	-0.7
6	1111 1010	53.750	49.5	0.7	0.8	12.9	53.1	-3.6
7	1111 1001	69.375	73.9	-1.0	-0.9	24.4	69.0	4.9
8	1111 1000	85.000	78.5	-0.9	-0.9	4.6	84.9	-6.3
9	1111 0111	100.625	98.7	0.6	-0.1	20.2	100.7	-2.0
10	1111 0110	116.250	111.9	0.9	0.8	13.2	116.6	-4.7
11	1111 0101	131.875	134.1	-0.1	0.9	22.2	132.5	1.6
12	1111 0100	147.500	151.0	-0.9	-0.8	16.8	148.4	2.6
13	1111 0011	163.125	165.4	-0.8	-0.8	14.4	164.2	1.1
14	1111 0010	178.750	180.4	0.7	0.9	15.0	180.1	0.3
15	1111 0001	194.375	201.4	0.8	0.8	21.0	196.0	5.4
16	1111 0000	210.000	211.5	-0.9	0.0	10.0	211.9	-0.4
17	1110 1111	225.625	226.8	-0.9	-0.8	15.3	227.7	-1.0
18	1110 1110	241.250	238.4	-0.1	-1.0	11.6	243.6	-5.2
19	1110 1101	256.875	261.3	0.6	0.7	22.9	259.5	1.8
20	1110 1100	272.500	276.2	0.9	0.9	14.9	275.3	0.9
21	1110 1011	288.125	292.5	-0.9	-0.8	16.3	291.2	1.3
22	1110 1010	303.750	306.3	-0.9	-0.9	13.7	307.1	-0.8
23	1110 1001	319.375	328.4	0.8	-0.0	22.1	323.0	5.4
24	1110 1000	335.000	336.4	0.8	0.8	8.0	338.8	-2.5
25	1110 0111	350.625	353.9	-0.1	0.4	17.5	354.7	-0.8

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 736

1981/11/30 16:44:39 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=L2)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
26	1110 0110	366.250	368.5	-1.0	-1.0	14.6	370.6	-2.1
27	1110 0101	381.875	390.3	-0.9	-0.8	21.8	386.5	3.9
28	1110 0100	397.500	408.0	0.7	0.8	17.7	402.3	5.7
29	1110 0011	413.125	419.7	0.7	0.8	11.7	418.2	1.5
30	1110 0010	428.750	436.8	-1.3	-0.0	17.1	434.1	2.7
31	1110 0001	444.375	457.4	-1.0	-0.9	20.6	450.0	7.4
32	1110 0000	460.000	462.6	-0.0	-0.9	5.2	465.8	-3.2
33	1101 1111	475.625	481.5	0.8	0.9	18.9	481.7	-0.2
34	1101 1110	491.250	492.2	0.9	0.8	10.7	497.6	-5.3
35	1101 1101	506.875	517.5	-0.6	-0.7	25.3	513.4	4.1
36	1101 1100	522.500	530.5	-0.9	-0.9	13.0	529.3	1.2
37	1101 1011	538.125	547.1	0.7	-0.1	16.6	545.2	1.9
38	1101 1010	553.750	559.6	0.8	0.8	12.5	561.1	-1.5
39	1101 1001	569.375	583.6	-0.1	0.9	24.0	576.9	6.7
40	1101 1000	585.000	591.2	-0.9	-0.9	7.6	592.8	-1.6
41	1101 0111	600.625	609.4	-0.2	-0.1	18.2	608.7	0.7
42	1101 0110	616.250	622.1	0.9	1.0	12.6	624.6	-2.5
43	1101 0101	631.875	644.8	0.5	0.7	22.7	640.4	4.3
44	1101 0100	647.500	661.2	-0.7	0.0	16.4	656.3	4.9
45	1101 0011	663.125	675.5	-1.0	-0.9	14.3	672.2	3.3
46	1101 0010	678.750	690.8	-0.1	-0.9	15.4	688.1	2.8
47	1101 0001	694.375	711.5	0.7	0.7	20.7	703.9	7.6
48	1101 0000	710.000	724.0	0.8	0.8	12.5	719.8	4.2
49	1100 1111	725.625	736.5	-0.8	-0.8	12.5	735.7	0.8
50	1100 1110	741.250	747.8	-1.0	-1.0	11.2	751.6	-3.8
51	1100 1101	756.875	771.0	0.8	-0.0	23.2	767.4	3.6

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 737

1981/11/30 16:44:39 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.

3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=12)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
52	1100 1100	772.500	786.0	0.8	0.9	14.9	783.3	2.7
53	1100 1011	788.125	800.8	-0.1	0.8	14.8	799.2	1.6
54	1100 1010	803.750	814.8	-0.9	-0.9	14.1	815.0	-0.2
55	1100 1001	819.375	838.2	-0.9	-0.8	23.3	830.9	7.2
56	1100 1000	835.000	848.7	0.8	0.9	10.5	846.8	1.9
57	1100 0111	850.625	862.4	0.1	0.0	13.7	862.7	-0.3
58	1100 0110	866.250	877.0	-1.0	-0.0	14.5	878.5	-1.6
59	1100 0101	881.875	899.0	-0.8	-0.8	22.0	894.4	4.5
60	1100 0100	897.500	917.4	-0.0	-0.9	18.5	910.3	7.1
61	1100 0011	913.125	927.5	1.0	1.0	10.1	926.2	1.3
62	1100 0010	928.750	943.4	1.0	1.0	15.9	942.0	1.3
63	1100 0001	944.375	965.1	-0.7	-0.8	21.7	957.9	7.2
64	1100 0000	960.000	974.7	-0.9	-0.8	9.6	973.8	0.9
65	1011 1111	975.625	989.5	0.9	-0.0	14.9	989.7	-0.1
66	1011 1110	991.250	999.1	0.7	0.7	9.6	1005.5	-6.4
67	1011 1101	1006.88	1024.2	-0.1	0.7	25.1	1021.4	2.8
68	1011 1100	1022.50	1037.9	-0.9	-0.9	13.7	1037.3	0.6
69	1011 1011	1038.13	1056.8	-0.8	-0.8	18.9	1053.1	3.6
70	1011 1010	1053.75	1067.6	1.0	0.9	10.8	1069.0	-1.4
71	1011 1001	1069.38	1090.8	0.8	0.9	23.2	1084.9	5.9
72	1011 1000	1085.00	1095.6	-0.8	-0.1	4.8	1100.8	-5.2
73	1011 0111	1100.63	1117.5	-1.0	-1.0	21.9	1116.6	0.9
74	1011 0110	1116.25	1128.9	0.0	-0.6	11.4	1132.5	-3.6
75	1011 0101	1131.88	1151.2	0.8	0.7	22.3	1148.4	2.8
76	1011 0100	1147.50	1166.9	0.9	0.9	15.7	1164.3	2.6
77	1011 0011	1163.13	1182.5	-0.4	-0.4	15.6	1180.1	2.4
78	1011 0010	1178.75	1196.2	-0.8	-0.9	13.7	1196.0	0.2

ORIGINAL PAGE IS OF POOR QUALITY

HS-236 THEMATIC MAPPER MUX UNIT TEST MODEL.. FLT. S/N 3 PAGE 738
1981/11/30 16:44:39 PENALTY FULL PERFORMANCE @ AMBIENT TEMP.
3.5.3.5-8 A/D THRESHOLD TEST (BAND= 4, SENSOR=12)

THRESHOLD NUMBER	A/D OUTPUT THRESHOLD	IDEAL VALUE (MV)	ANALOG INPUT VOLTAGE (MV) LEVELS RATIO= 1 :1 NOMINAL	LOWER	UPPER	INCREASE FROM PREV THRESHOLD	BEST FIT STRAIGHT LINE POINT	DEVIATION
79	1011 0001	1194.38	1217.7	1.2	-0.0	21.5	1211.9	5.8
80	1011 0000	1210.00	1229.9	0.9	0.9	12.2	1227.8	2.2
81	1010 1111	1225.63	1242.0	0.0	1.1	12.0	1243.6	-1.7
82	1010 1110	1241.25	1253.1	-1.0	-1.0	11.2	1259.5	-6.4
83	1010 1101	1256.88	1277.4	-0.9	-0.8	24.2	1275.4	2.0
84	1010 1100	1272.50	1291.9	0.8	0.9	14.5	1291.2	0.6
85	1010 1011	1288.13	1308.4	0.6	0.7	16.5	1307.1	1.2
86	1010 1010	1303.75	1319.5	-0.9	0.0	11.2	1323.0	-3.5
87	1010 1001	1319.38	1344.1	0.9	-0.9	24.6	1338.9	5.2
88	1010 1000	1335.00	1355.0	0.0	-1.0	10.8	1354.7	0.2
89	1010 0111	1350.63	1369.0	0.8	0.9	14.0	1370.6	-1.7
90	1010 0110	1366.25	1380.9	1.0	0.9	11.9	1386.5	-5.6
91	1010 0101	1381.88	1404.2	-0.8	-1.0	23.3	1402.4	1.8
92	1010 0100	1397.50	1422.6	-0.9	-0.9	18.4	1418.2	4.4
93	1010 0011	1413.13	1433.7	0.8	-0.0	11.1	1434.1	-0.4
94	1010 0010	1428.75	1448.2	0.8	0.8	14.5	1450.0	-1.8
95	1010 0001	1444.38	1470.1	-0.0	0.9	21.9	1465.9	4.2
96	1010 0000	1460.00	1480.3	-0.9	-0.8	10.2	1481.7	-1.4
97	1001 1111	1475.63	1495.7	-0.9	-0.9	15.4	1497.6	-1.9
98	1001 1110	1491.25	1504.1	0.8	0.8	8.4	1513.5	-9.4
99	1001 1101	1506.88	1529.0	0.9	0.8	24.9	1529.4	-0.4
100	1001 1100	1522.50	1542.9	-0.9	-0.0	13.9	1545.2	-2.4
101	1001 1011	1538.13	1561.6	-0.7	-0.7	18.7	1561.1	0.5
102	1001 1010	1553.75	1573.3	0.0	-0.8	11.7	1577.0	-3.7
103	1001 1001	1569.38	1595.3	0.8	0.8	22.5	1592.8	3.0
104	1001 1000	1585.00	1601.8	0.9	0.8	5.9	1608.7	-7.0

ORIGINAL PAGE IS
OF POOR QUALITY