

N O T I C E

THIS DOCUMENT HAS BEEN REPRODUCED FROM
MICROFICHE. ALTHOUGH IT IS RECOGNIZED THAT
CERTAIN PORTIONS ARE ILLEGIBLE, IT IS BEING RELEASED
IN THE INTEREST OF MAKING AVAILABLE AS MUCH
INFORMATION AS POSSIBLE

Contract NAS3-21260

CORE NOISE INVESTIGATION OF THE CF6-50 TURBOFAN ENGINE DATA REPORT

Internal and Farfield Narrowband
and One-Third Octaveband Spectra
from the Acoustic Test of the
CF6-50 Engine (S/N 455-768)

Prepared by V.L. Doyle

(NASA-CP-159598) CORE NOISE INVESTIGATION
OF THE CF6-50 TURBOFAN ENGINE Data Report,
1978 - 1979 (General Electric Co.) 357 p
HC A16/MF A01 CSCL 21E

N80-16061

Unclas
G3/07 46987

PREPARED FOR

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
LEWIS RESEARCH CENTER
21000 BROOKPARK ROAD
CLEVELAND, OHIO 44135

GENERAL  ELECTRIC

AIRCRAFT ENGINE GROUP
ADVANCED ENGRG. AND TECH. PROGRAMS DEPT.
CINCINNATI, OHIO 45215

TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
1.0 SUMMARY	1
2.0 INTRODUCTION	2
3.0 OBJECTIVES	3
4.0 TEST DESCRIPTION SUMMARY	4
APPENDICIES	
A - 2 Hz Narrowband Spectra	9
B - 1/3 Octaveband Spectra	205

PRECEDING PAGE BLANK NOT FILMED

1.0 SUMMARY

An acoustic test of a CF6-50 engine equipped with a standard production combustor was conducted to acquire simultaneous engine internal and farfield fluctuating pressure measurements. The purpose of the test was to acquire the data necessary to determine the effect of internally generated core noise on the farfield measurements in support of NASA Lewis Contract NAS3-21260.

This document presents the measured data in terms of narrowband spectra of 2 Hz bandwidth for a frequency range of 0 to 2000 Hz; and in one-third octaveband spectra from 50 to 5000 for internal fluctuating pressure levels and 50 to 10000 Hz for farfield sound pressure levels.

2.0 INTRODUCTION

The data presented in this document is part of the data acquired from an outdoor acoustic test of a CF6-50 turbofan engine. The test, sponsored by the NASA Lewis Research Center's Contract NAS3-21260, was conducted to obtain simultaneous internal and farfield measurements from the engine. The data will be used to assist in the analysis of the test results to determine the influence of core noise measurements on the farfield levels.

This document presents narrowband and one-third octaveband spectra from all internal and farfield sensors used in the engine test.

3.0 OBJECTIVES

The primary objective of the CF6-50 Core Noise Measurements Program sponsored by Contract NAS3-21260 is to determine the influence of internally generated core noise on the external engine noise farfield signature.

This set of data supports the direct acoustic analysis requirements of the core noise measurements program.

4.0 TEST DESCRIPTION SUMMARY

An acoustic test was conducted for NASA Lewis Contract NAS3-21260 on a CF6-50 high by-pass turbofan engine equipped with a standard production combustor. The purpose of these tests was to measure simultaneously, the internally generated core noise and the farfield engine noise, and to determine, through analysis, the influence of this internally generated noise on the farfield measurements.

The measurements were obtained over the engine sea level static operating line from a combination of nine (9) internal Kulites and fifteen (15) farfield microphones which were ground mounted around a 150 ft. farfield arc. Instrumentation locations are illustrated in Figures 1 through 3. Test conditions included eight operating settings between idle and takeoff power. Two sets of data are presented for the conditions shown in Table 1. Narrowband (2 Hz bandwidth) spectral plots from 0 to 2000 Hz are presented in Appendix A for each sensor at all eight power settings. The second set of data (Appendix B) includes tabulations and plots of $1/3$ octave band spectra for all sensors at each of the power settings.

FIGURE 1. INTERNAL SENSOR LOCATIONS FOR ENGINE COMBUSTOR NOISE MEASUREMENTS

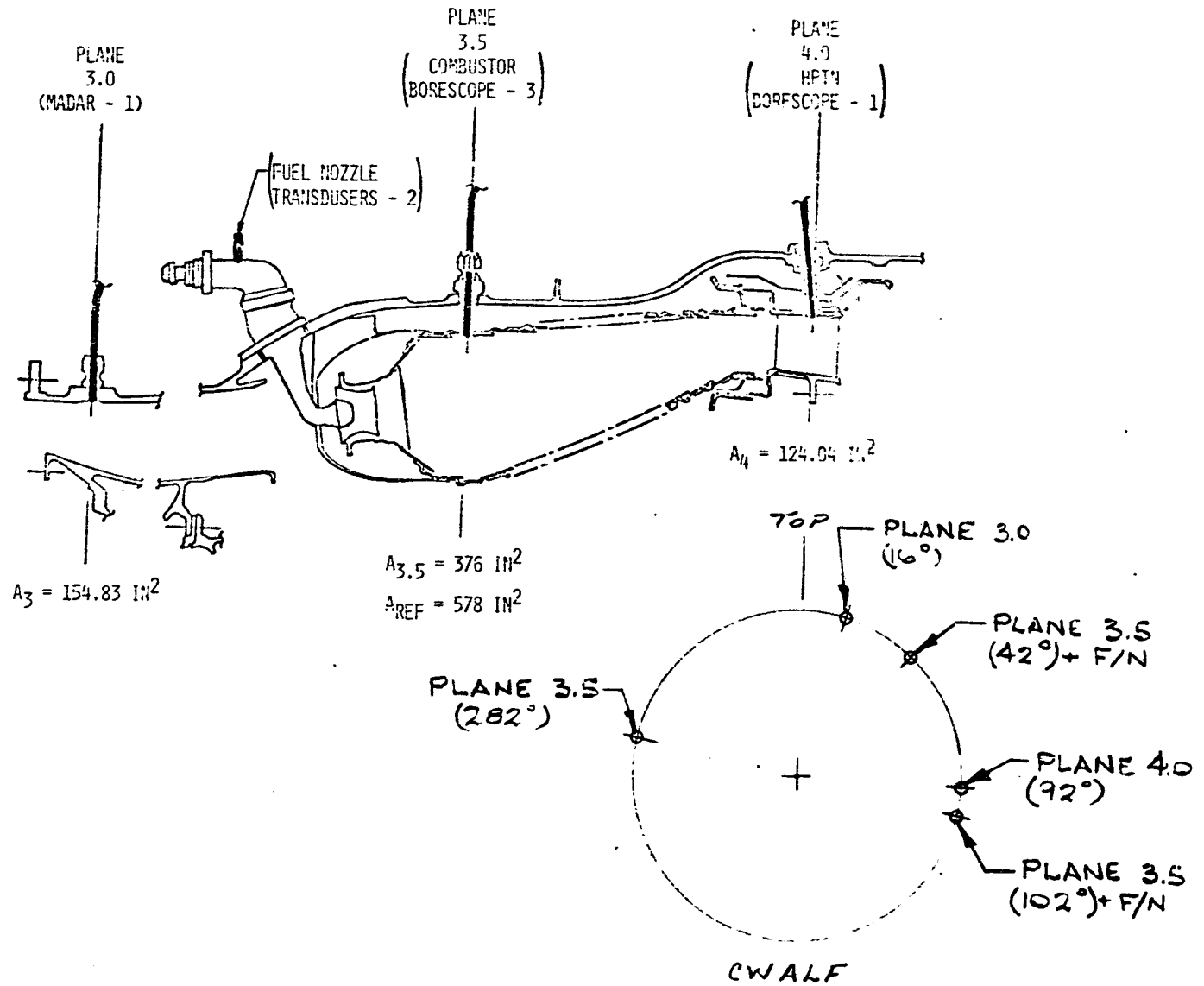


FIGURE 2. SOUND SEPARATION PROBE LOCATION ON CF6-50 ENGINE

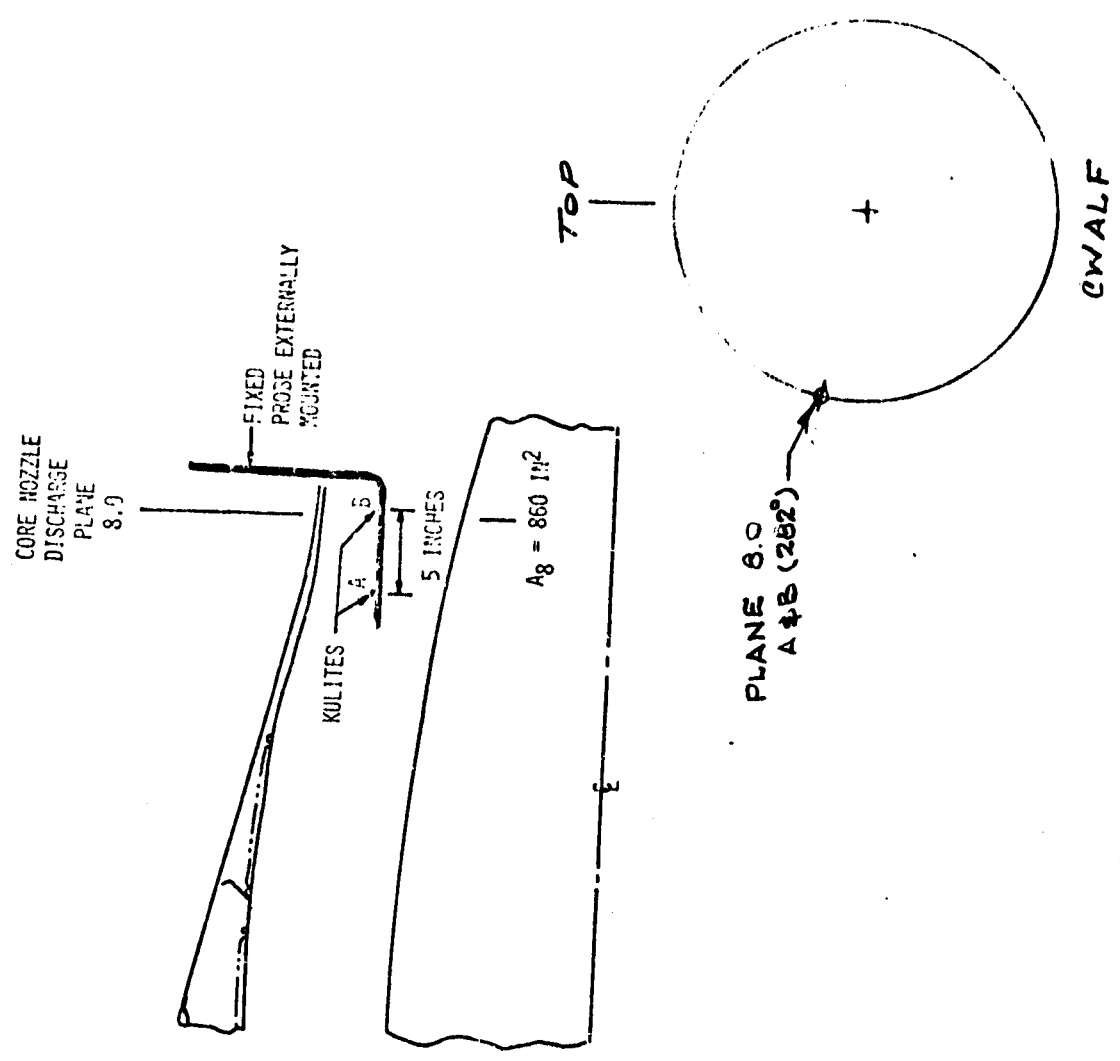


FIGURE 3. FARFIELD MICROPHONE ARRAY FOR CF6-50 CORE NOISE MEASUREMENTS

- PEBBLES, SITE 4D TEST STAND
- MICROPHONES, 1/2" B & K 4134'S USED FOR GRAZING INCIDENCE AND ORIENTED VERTICAL WITH HEAD TOWARD CONCRETE

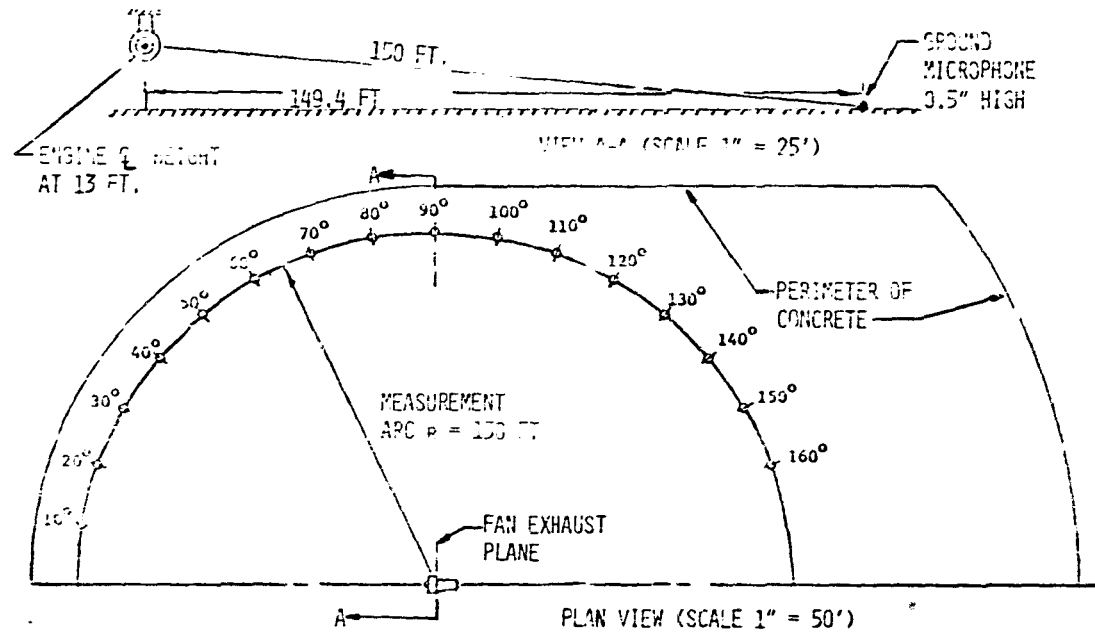


TABLE 1.

MATRIX OF TEST CONDITIONS

<u>TEST POINT</u>	<u>AERO RDG</u>	<u>NOM % THRUST</u>	<u>$n_1 \sqrt{\theta_2}$ (rpm)</u>	<u>REMARKS</u>
1	544	3.8	865	Idle
2	546	22.8	2108	
3	551	30.8	2350	Approach
4	557	36.5	2544	
5	561	45.5	2770	
6	563	67.8	3223	
7	565	85.5	3459	Climbout
8	567	99.8	3701	Takeoff

APPENDIX A 2 Hz Narrowband Spectra Results from CF6-50
Core Noise Measurements Program

● 2 Hz Narrowband Spectra Results from CF6-50 Core Noise Measurements Program

The 2 Hz narrowband spectra presented in this appendix cover a range of frequencies from 0 to 2000 Hz and include spectra from nine (9) internal Kulites and fifteen (15) farfield microphones. A complete set of spectra is supplied for each of eight (8) data points covering the operating range of the CF6-50 engine.

The Kulite fluctuating pressure level (FPL) spectra are as measured and include those from the five (5) waveguide sensors in the combustor region which were corrected for the ambient frequency response of the systems. No corrections were applied to the spectra from the flush mounted Kulites in the sound separation probe or fuel nozzle sensors. The fuel nozzle sensor measurements were of liquid (fuel) fluctuation but were considered as aerodynamic pressure fluctuations in the narrowband analysis.

The microphone sound pressure level (SPL) spectra are from raw measurements, corrected for microphone response but not to standard day or freefield conditions.

Each narrowband spectral plot has the following information noted on it:

1. Sensor location, e.g. Kulite (Plane) / Microphone (Angle)
2. Aerodynamic Reading No., e.g. Rdg. No. ()
3. Tape Run No., , e.g. Run No. ()
4. Fan Speed e.g. () RPM
5. Percent Net Thrust (nominal), e.g. % Thrust = ()
6. OAFPL/OASPL, dB re 2×10^{-5} N/m²
7. Gain Setting/sensitivity, 1/(psi/volt)
8. Block Size/Sample Rate, 4096/8192.

The number of block averages employed was 20 and a total sample record length of 10 seconds was used in the analysis of the data.

Summary tabulations of the computed overall levels from all the 2 Hz narrowband spectra over the 0 to 2000 Hz frequency range are contained in Tables 2 and 3. Table 2 lists internal Kulite levels (OAFPL) for the fluctuating pressure measurements, while Table 3 lists the farfield levels (OASPL).

CF6-50 CORE NOISE MEASUREMENTS

TABLE 2. NARROWBAND (2 Hz Bandwidth) SPECTRA FOR INTERNAL KULITES

Calculated OAFPL, d3 Δf = G-2000 Hz

Internal Kulite Sensors

Rdg. No.	Pct. Thrust (Nom)	Fan Speed rpm	Core Speed rpm	3.0	3.5	3.5	3.5	4.0	8.0	8.0	F/N	F/N	Plane θ Loc. Channel
				16° 18	42° 19	102° 20	282° 21	92° 22	A 270° 24	B 270° 26	S-0 42° 23	P-S 102° 25	
544	3.8	865	6582	157.2	159.0	159.7	158.8	157.1	133.9	131.7	182.1	173.3	
546	22.5	2108	8452	167.4	169.5	170.6	169.5	167.0	142.6	140.4	176.8	176.2	
551	30.8	2350	8688	169.0	170.7	172.1	171.4	168.6	142.1	142.0	179.3	177.3	
557	36.6	2544	8881	169.9	172.3	173.2	172.9	169.5	143.1	142.3	180.7	178.5	
561	45.6	2770	9106	170.5	173.7	174.5	174.2	170.7	144.3	144.0	180.7	179.7	
563	67.8	3223	9668	171.5	175.4	176.8	176.1	175.8	148.5	147.8	181.3	181.1	
565	85.5	3459	9959	172.2	177.1	178.5	177.3	175.3	151.3	149.9	182.4	182.4	
567	99.8	3701	10280	173.5	178.7	180.3	178.9	175.2	153.9	151.9	184.1	184.2	

CF6-50 CORE NO. 1 MEASUREMENTS

TABLE 3. NARROWBAND (2 Hz Bandwidth) SPECTRA FOR FARFIELD MICROPHONES

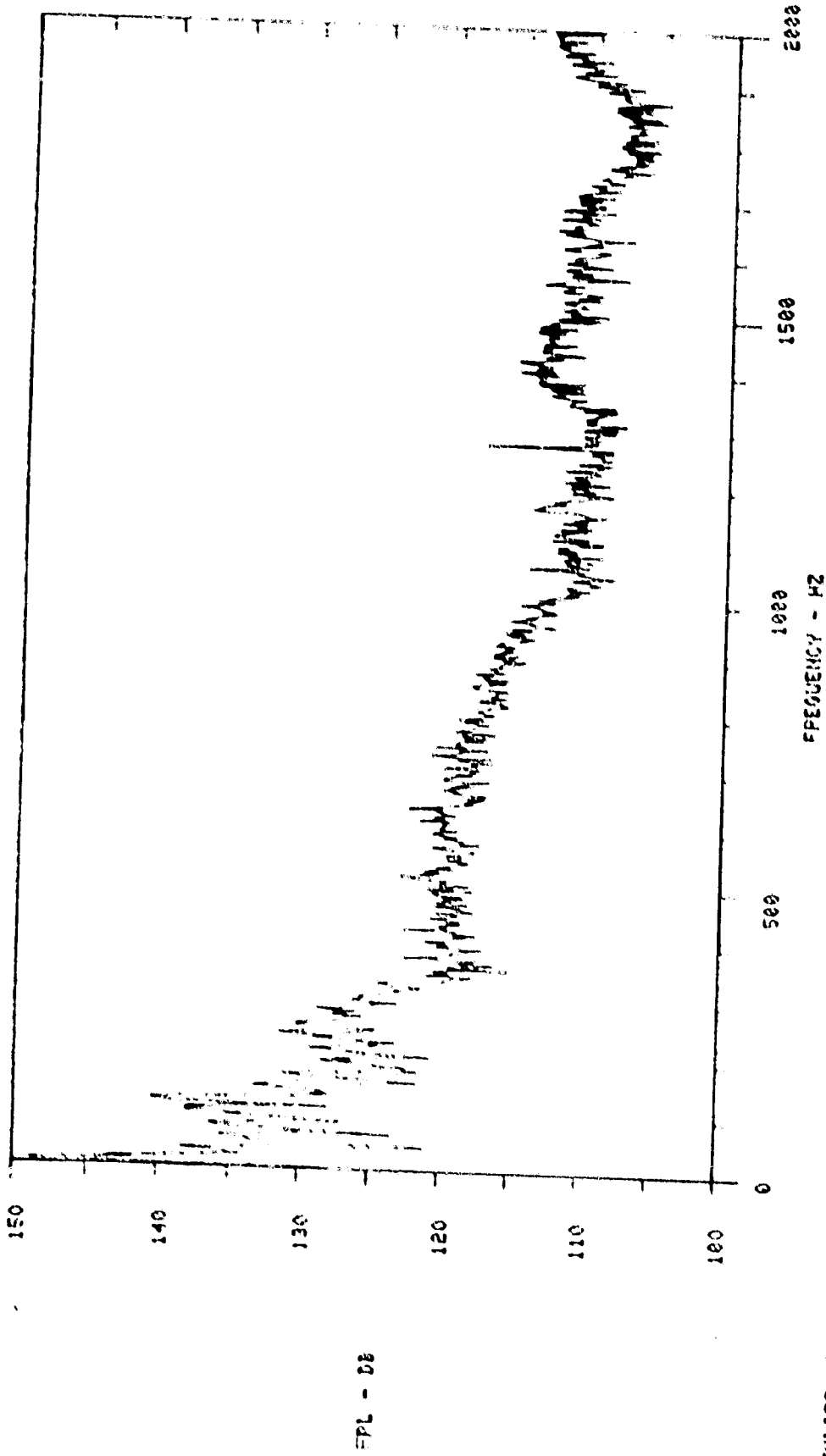
Calculated OASPL, dB Δf = 0-2000 Hz

Ground Plane Microphones (150 ft. Arc)

Rdg. No.	Pct Thrust (Nom)	Fan Speed rpm	Core Speed rpm	10° 2	30° 4	40° 5	50° 6	60° 7	70° 8	80° 9	90° 10	θ Loc Channel
544	3.8	865	6562	103.6	96.4	99.1	95.4	93.4	92.8	91.4	90.9	
546	22.5	2108	8452	103.1	102.6	103.7	102.5	102.0	100.7	100.0	100.6	
551	30.8	2350	8688	104.9	104.8	105.4	104.3	103.9	102.7	102.3	102.9	
557	36.6	2544	8881	106.9	106.9	107.1	106.2	105.8	104.8	104.4	104.8	
561	45.6	2770	9106	108.8	108.8	109.7	108.9	109.5	107.1	106.7	107.2	
563	67.8	3223	9668	113.1	112.8	114.3	112.9	112.6	111.9	111.4	111.9	
565	85.5	3459	9959	111.9	112.8	114.3	113.9	114.3	113.6	113.6	114.3	
567	99.8	3701	10280	113.0	113.9	115.2	115.1	115.7	115.5	115.8	116.5	

Rdg. No.	Pct Thrust (Nom)	Fan Speed rpm	Core Speed rpm	100° 11	110° 12	120° 13	130° 14	140° 15	150° 16	160° 17	θ Loc Channel
544	3.8	865	6562	91.9	93.4	95.0	94.9	95.2	94.3	92.4	
546	22.5	2108	8452	101.0	102.3	103.6	103.9	103.7	103.8	103.1	
551	30.8	2350	8688	103.6	104.4	106.6	106.2	106.7	107.5	106.7	
557	36.6	2544	8881	105.2	106.1	107.8	107.8	108.6	109.6	109.6	
561	45.6	2770	9106	107.7	108.5	110.1	109.4	111.9	113.1	114.0	
563	67.8	3223	9668	112.9	113.8	116.1	115.3	119.5	122.1	123.4	
565	85.5	3459	9959	115.3	116.5	118.6	117.9	123.7	126.6	128.5	
567	99.8	3701	10280	117.8	119.2	121.9	121.7	128.1	131.0	132.3	

CF6-50 CORE NOISE PROGRAM.



KULITE 19
RDG NO 544
FAN SPEED 265 RPM
CAPPL 157.2 DB

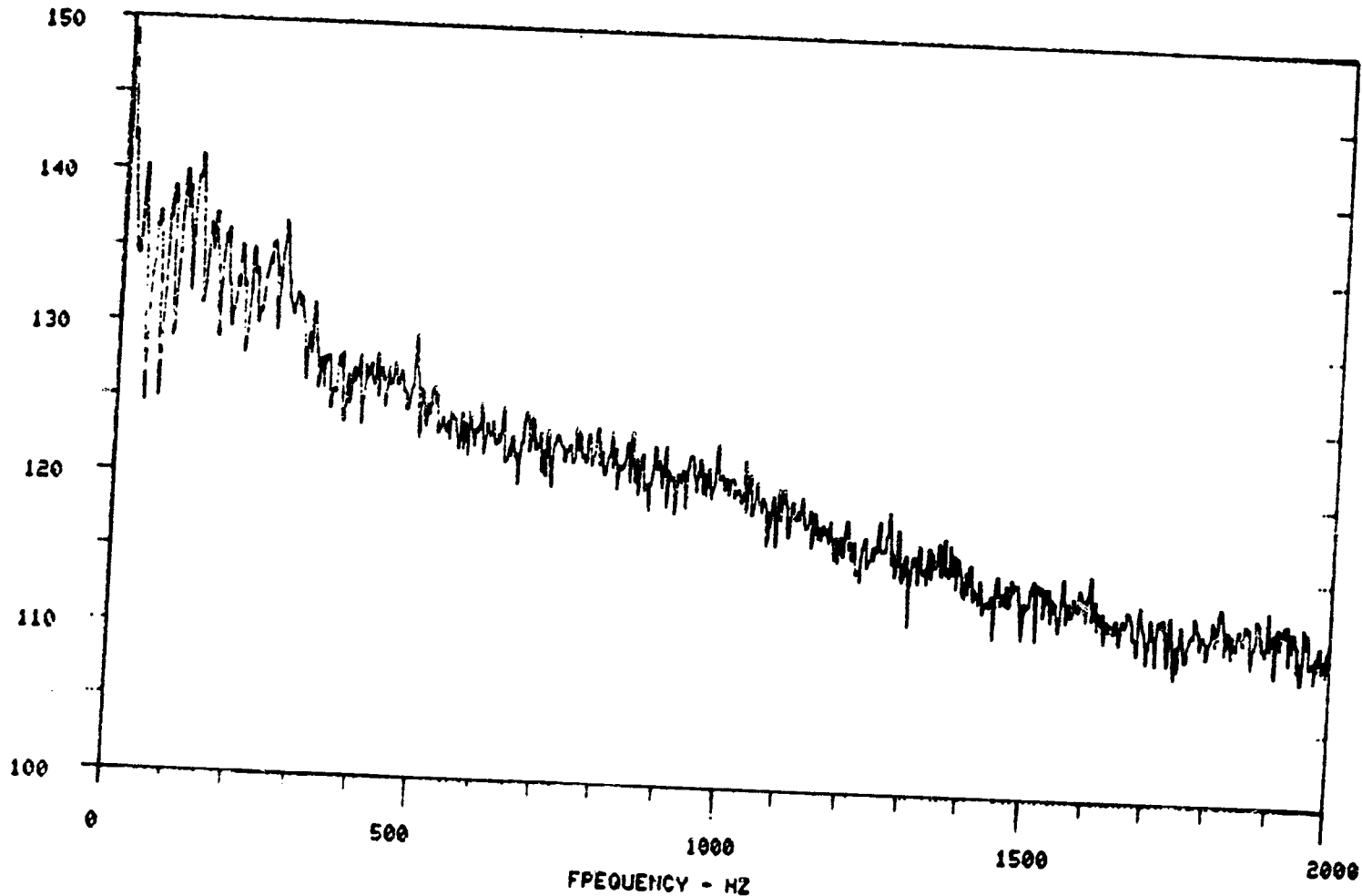
5

RUN NO 32
X THRUST 3.22
G/S 1.1 0.50000
25/SP 4026/ 2172

14

CF6-50 CORE NOISE PROGRAM.

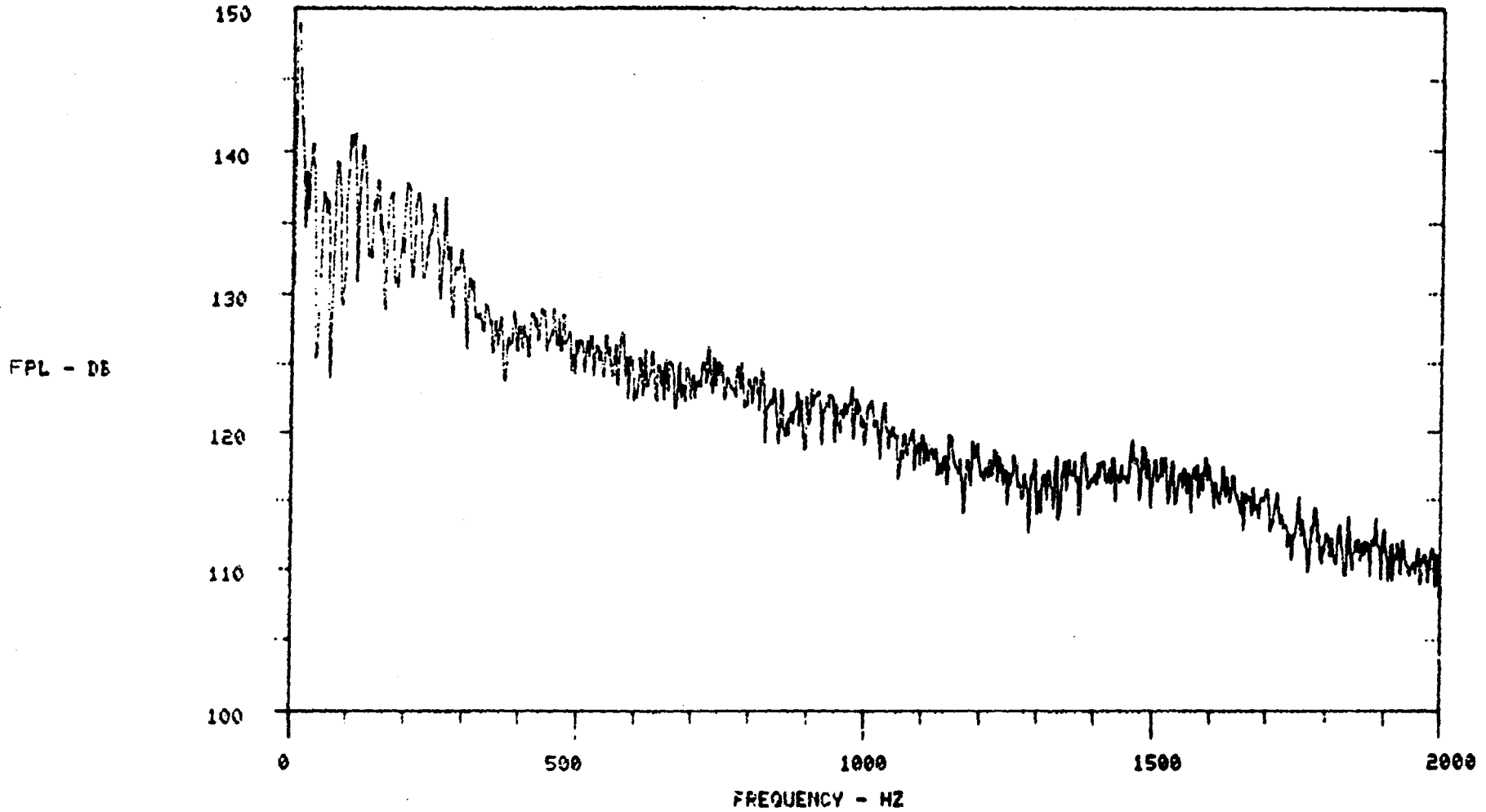
FPL - DB



KULITE 19
RDG NO 544
FAN SPEED 865 RPM
OAFPL 159.0 DB

RUN NO 38
% THRUST = 3.28
G/S 1. / 0.50000
BS/SR 4096 / 8192

CF6-50 CORE NOISE PROGRAM.

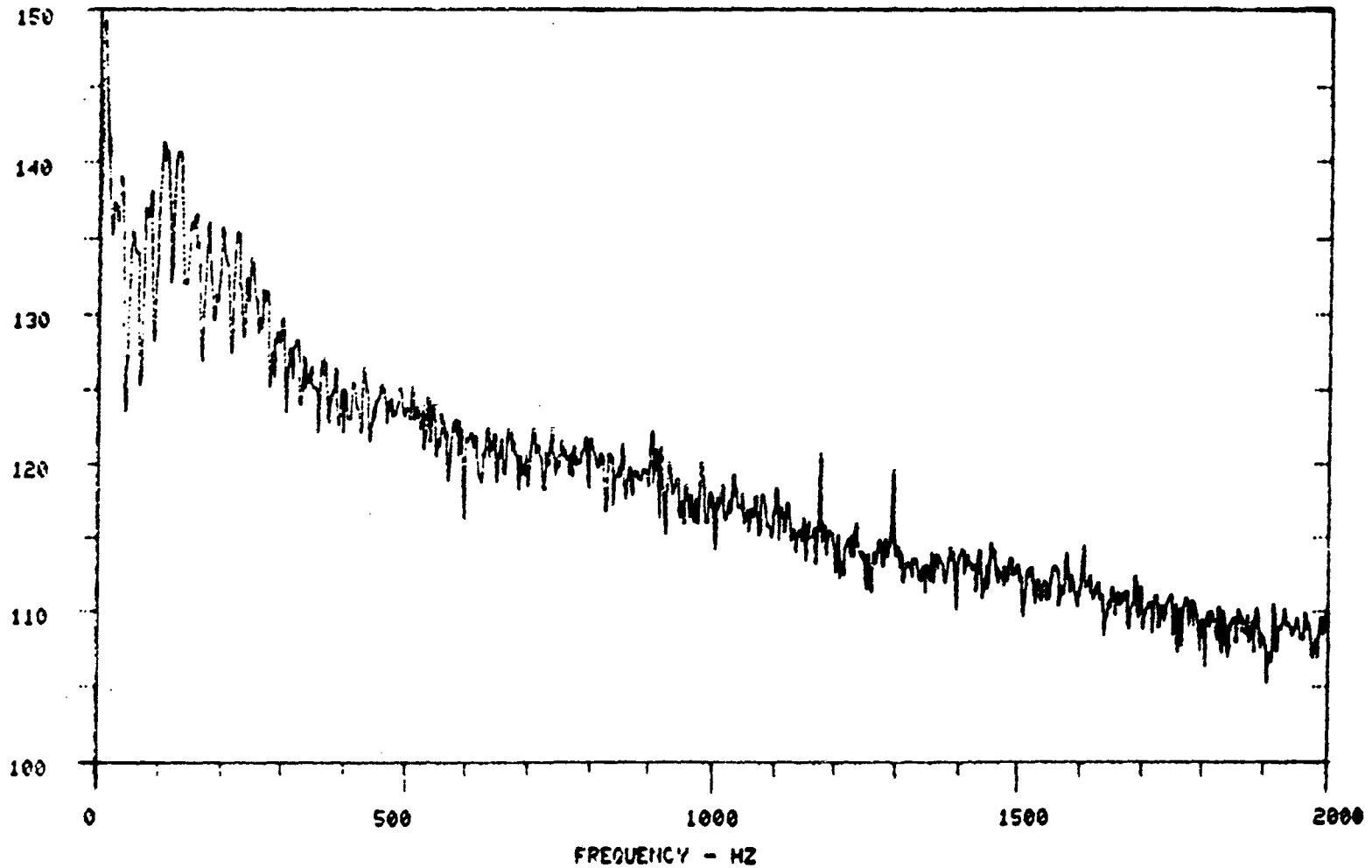


KULITE 20
RDG NO 544
FAN SPEED 865 RPM
OAFPL 159.7 DB

RUN NO 38
x THRUST- 3.28
0/S 1./ 0.5000
25/SR 4096/ 8192

CF6-50 CORE NOISE PROGRAM.

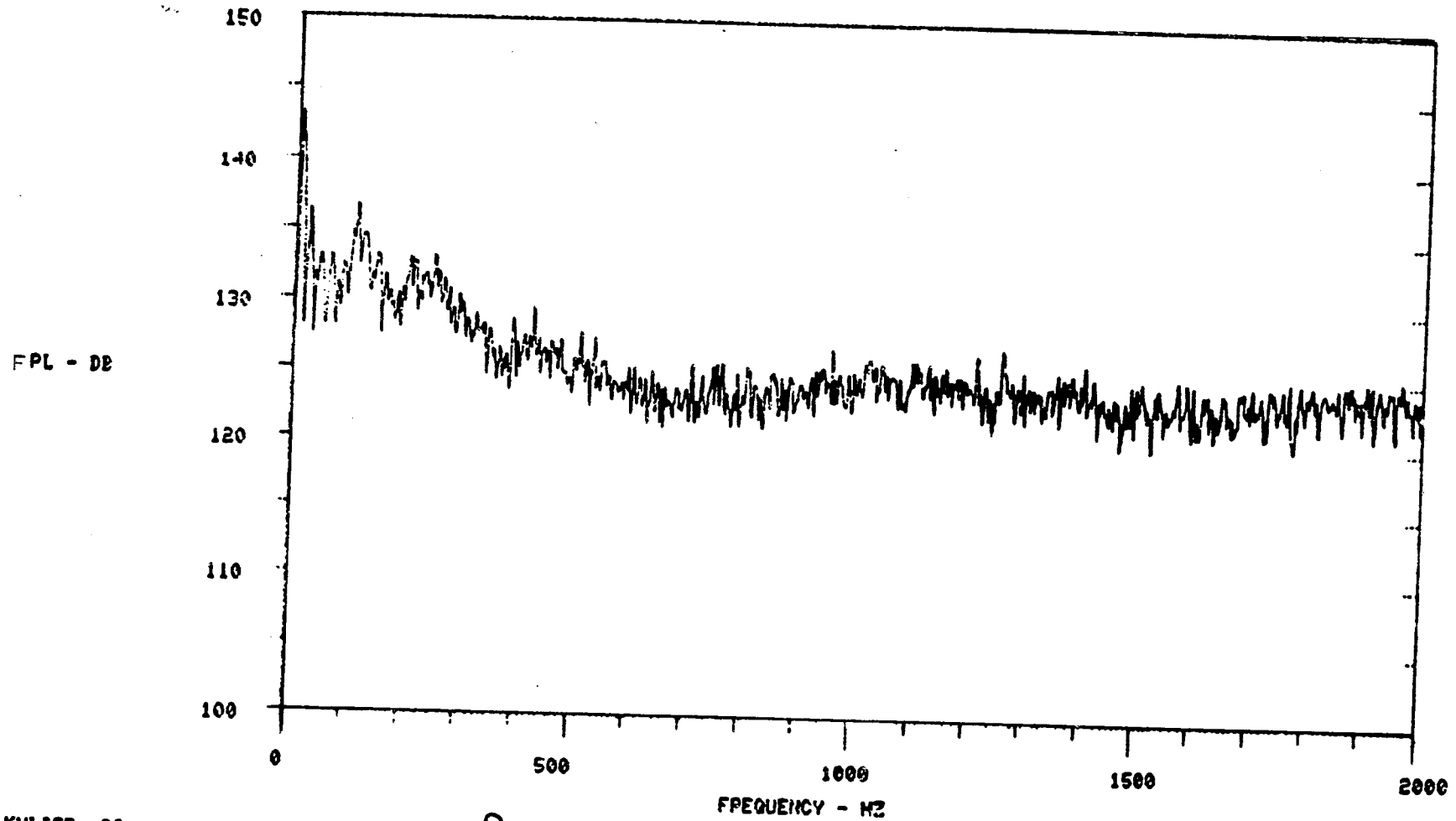
FPL - DB



KULITE 21
RDG NO 544
FAN SPEED 365 RPM
OAFPL 158.8 DB

RUN NO 38
x THRUST= 3.82
Q/S 1./ 0.50000
BS/SR 4096/ 8192

CF6-50 CORE NOISE PROGRAM.



KULITE 22
RDG NO 544
FAN SPEED 865 RPH
OAFPL 157.1 DB

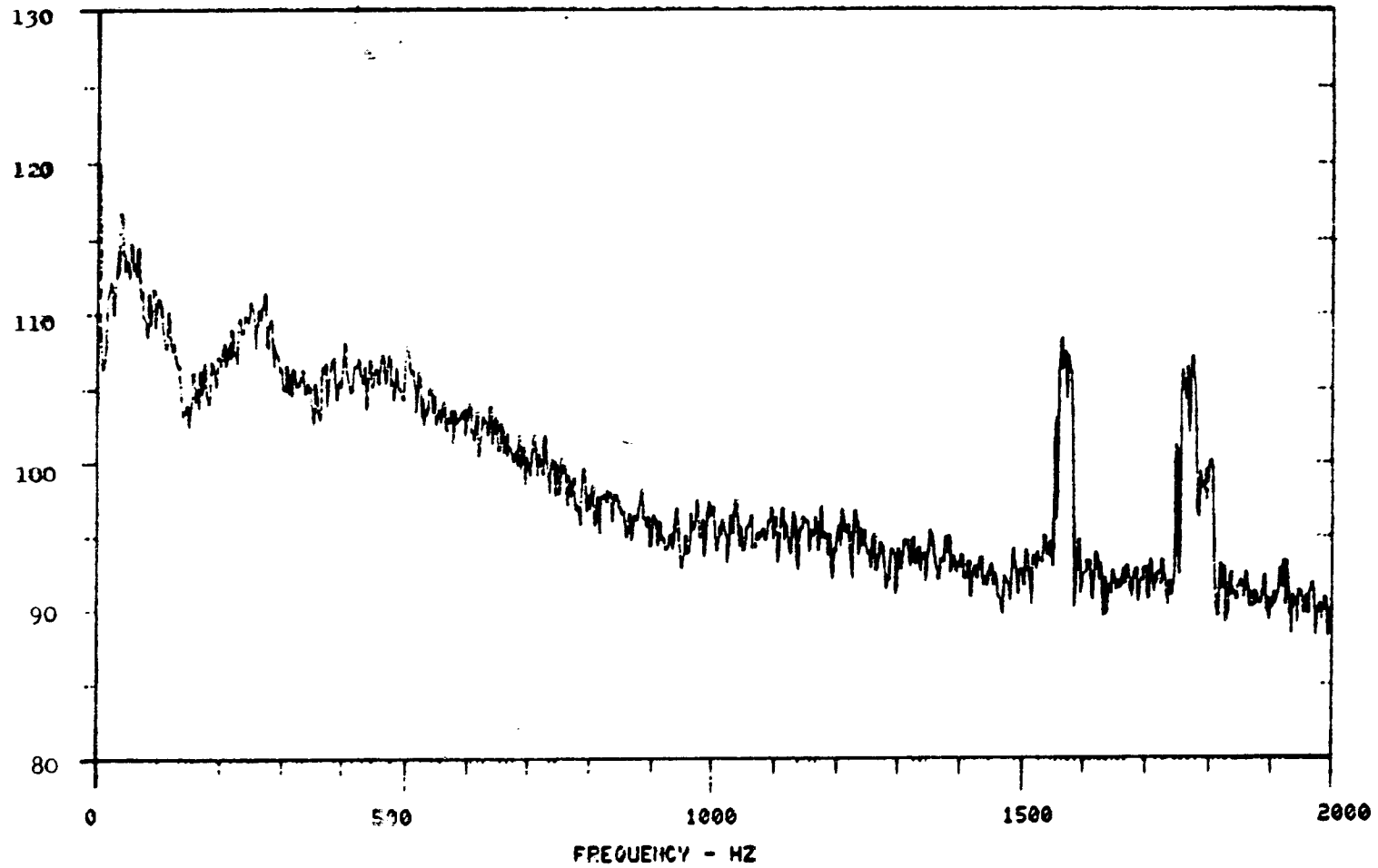
17

ORIGINAL PAGE IS
OF POOR QUALITY

RUN NO 38
X THRUST - 3.83
Q/S 1. / 0.50000
SS/SR 4096 / 8192

CF6-50 CORE NOISE PROGRAM

FPL - DB

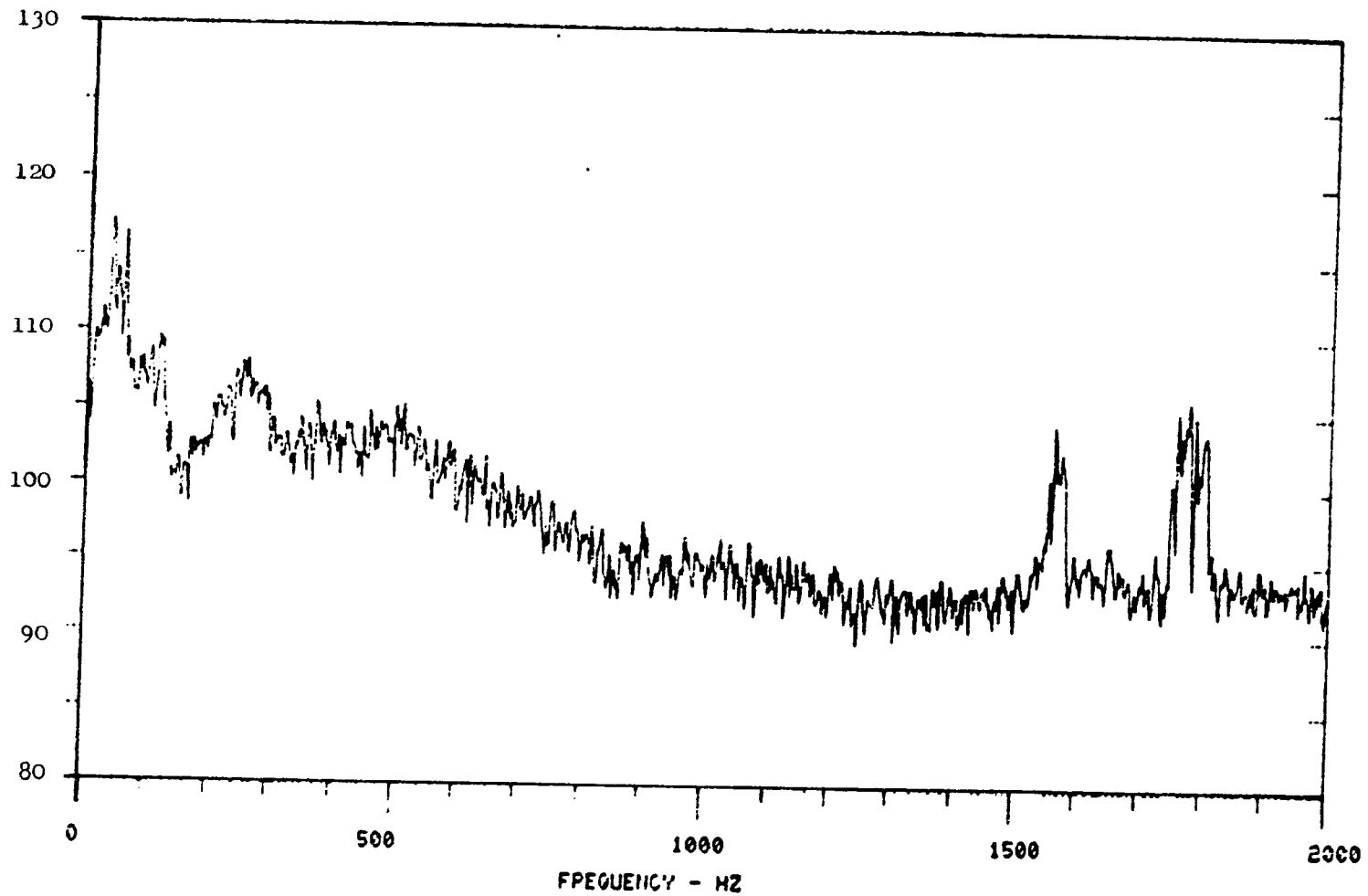


KULITE 24
RDG NO 544
FAN SPEED 865 RPM
OAFPL 133.9 DB

RUN NO 38
x THRUST = 3.88
G/S 1. / 0.50000
BS/SR 4096 / 8192

CF6-50 CORE NOISE PROGRAM

FPL - DE

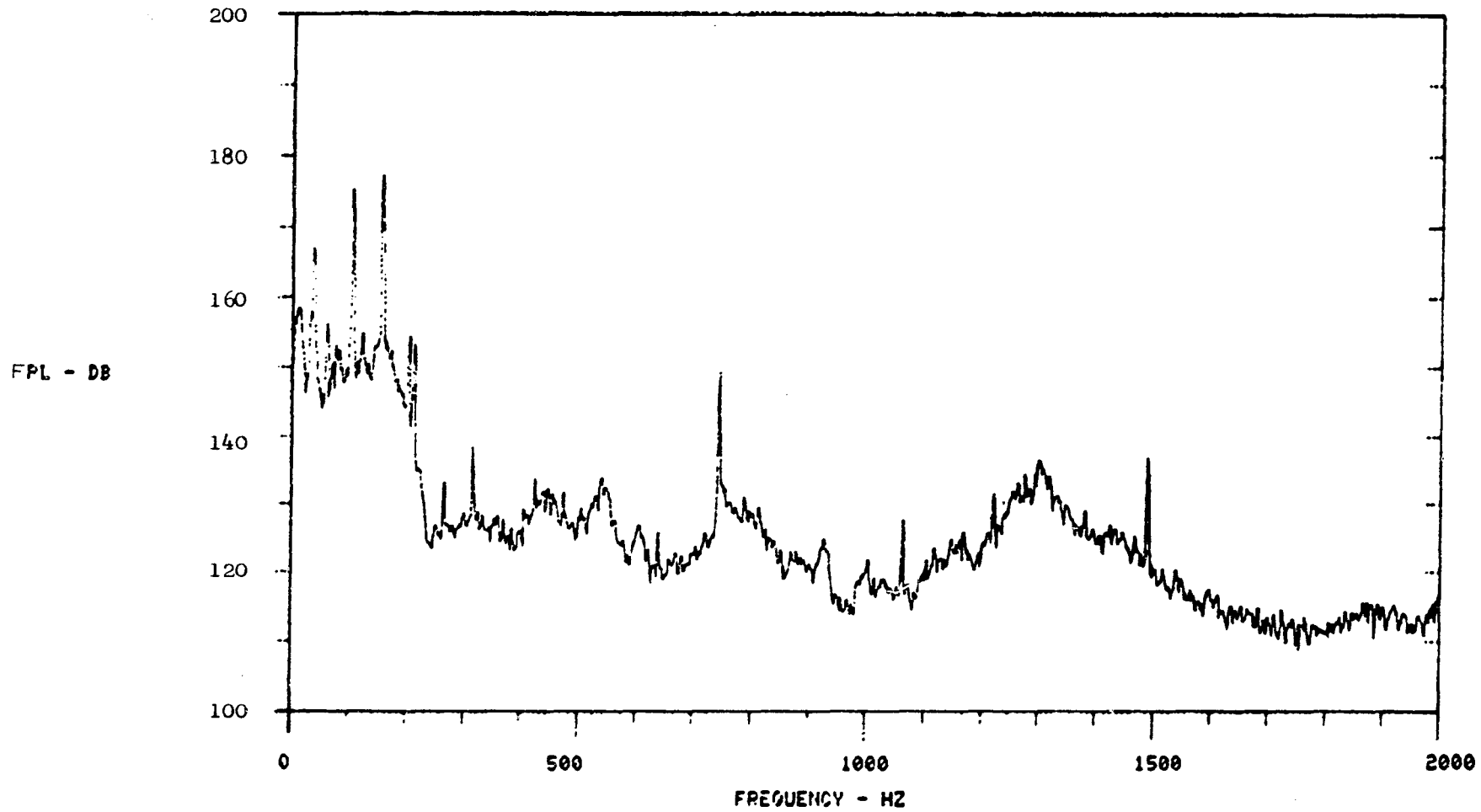


KULITE 26
RDG NO 544
FAN SPEED 865 RPM
OAFPL 131.7 DB

61

RUN NO 38
X THRUST= 3.88
Q/S 1./ 0.20000
BS/SR 4096/ 8192

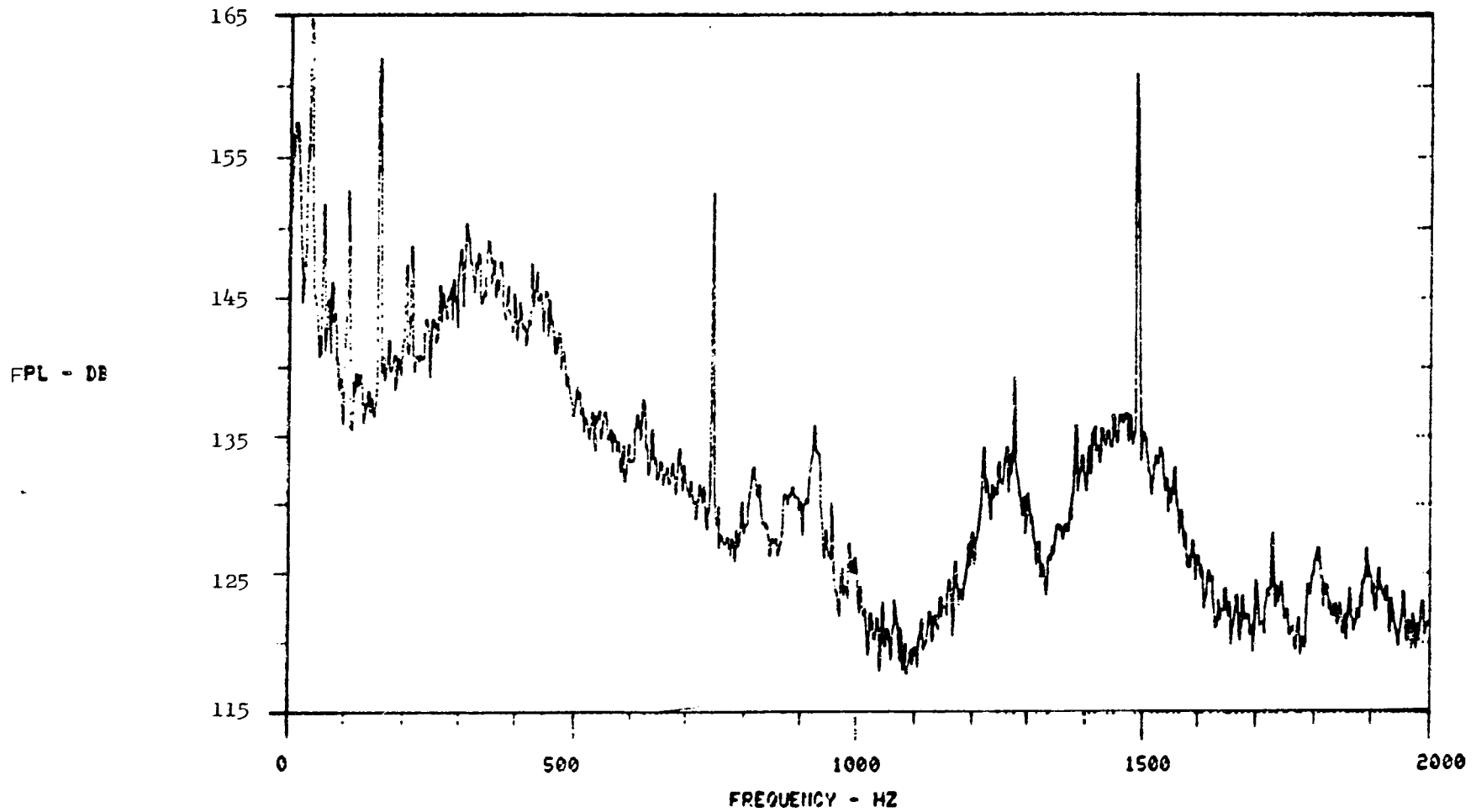
CF6-50 CORE NOISE PROGRAM



KULITE 23
RDG NO 544
FAN SPEED 865 RPM
OAFPL 182.1 DB

RUN NO 38
* THRUST = 3.28
O/S 1. / 0.50000
BS/SR 4096 / 8192

CF6-50 CORE NOISE PROGRAM

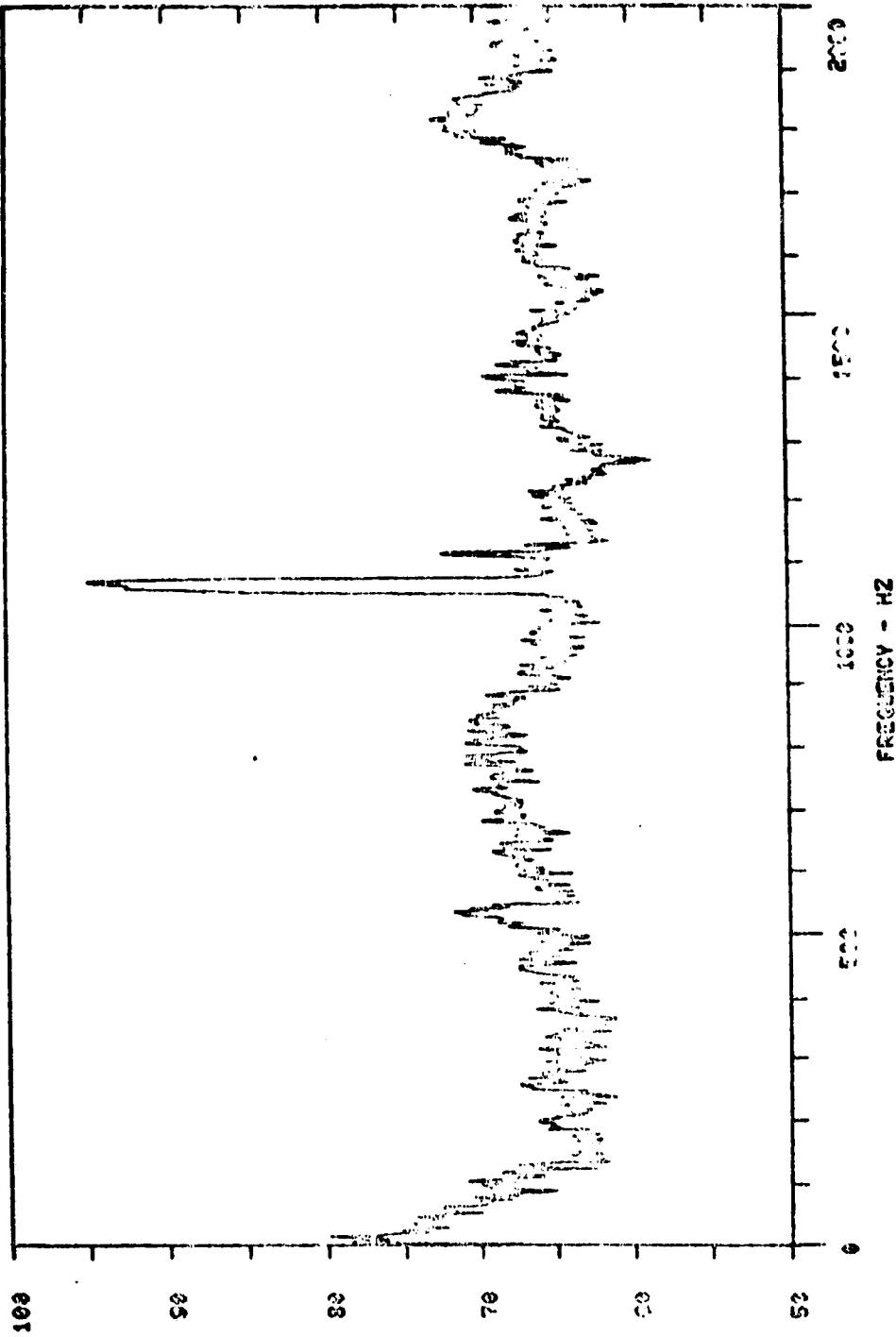


KULITE 25
RDG NO 544
FAN SPEED 865 RPM
OAFPL 173.3 DB

21

RUN NO 38
X THRUST= 3.88
G/S 1. / 0.20000
BS/SR 4095/ 8192

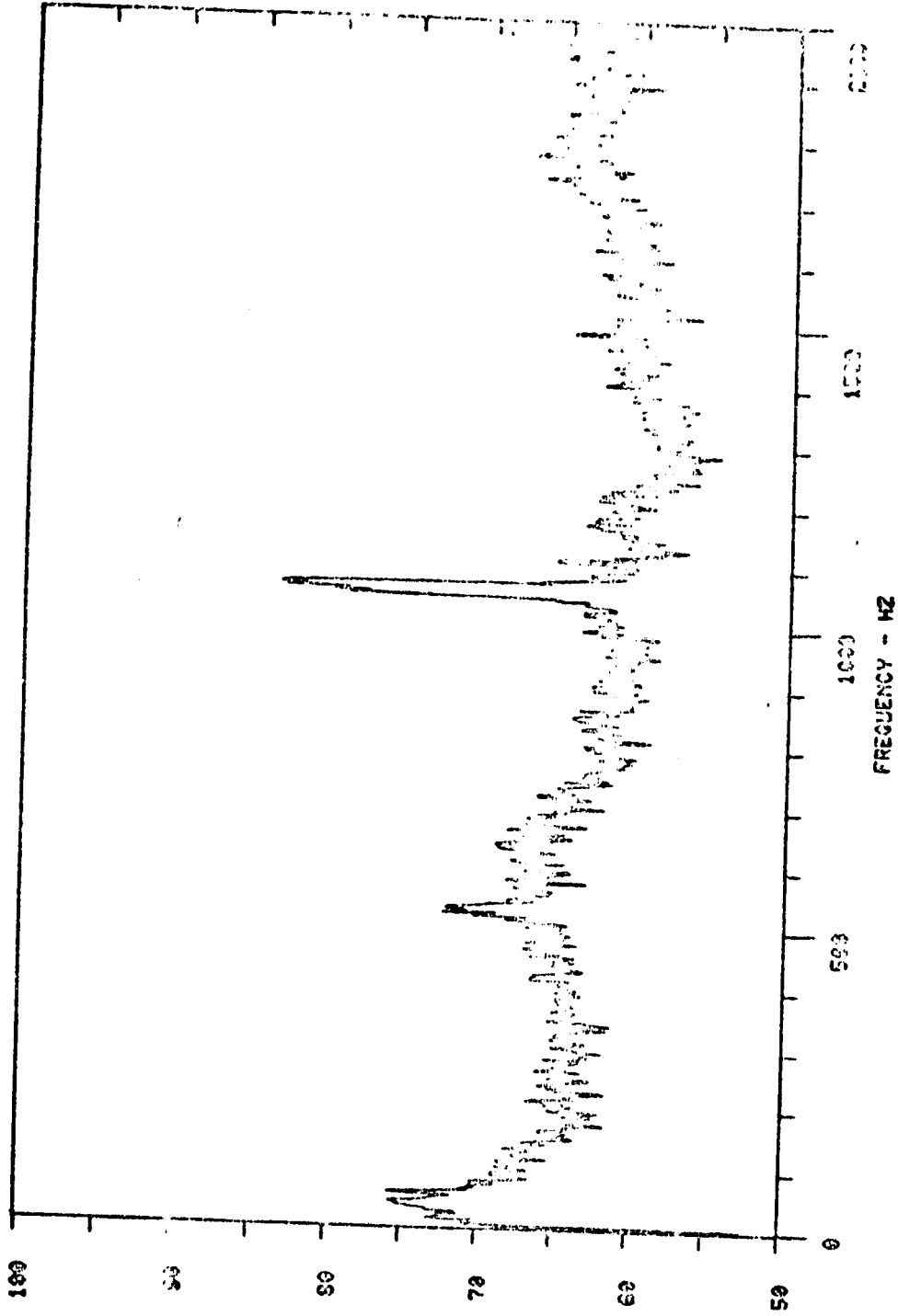
CF6-50 CORE NOISE PROGRAM.



KULITE 10
RDS NO 544
FRM SPEED 605 RPM
CALCPL 103.6 DB

RUN NO 33
N THRUST- 3.83
O/S 1.7 0.69103
B9/6R 4003/ 6100

CF6-50 CORE NOISE PROGRAM.



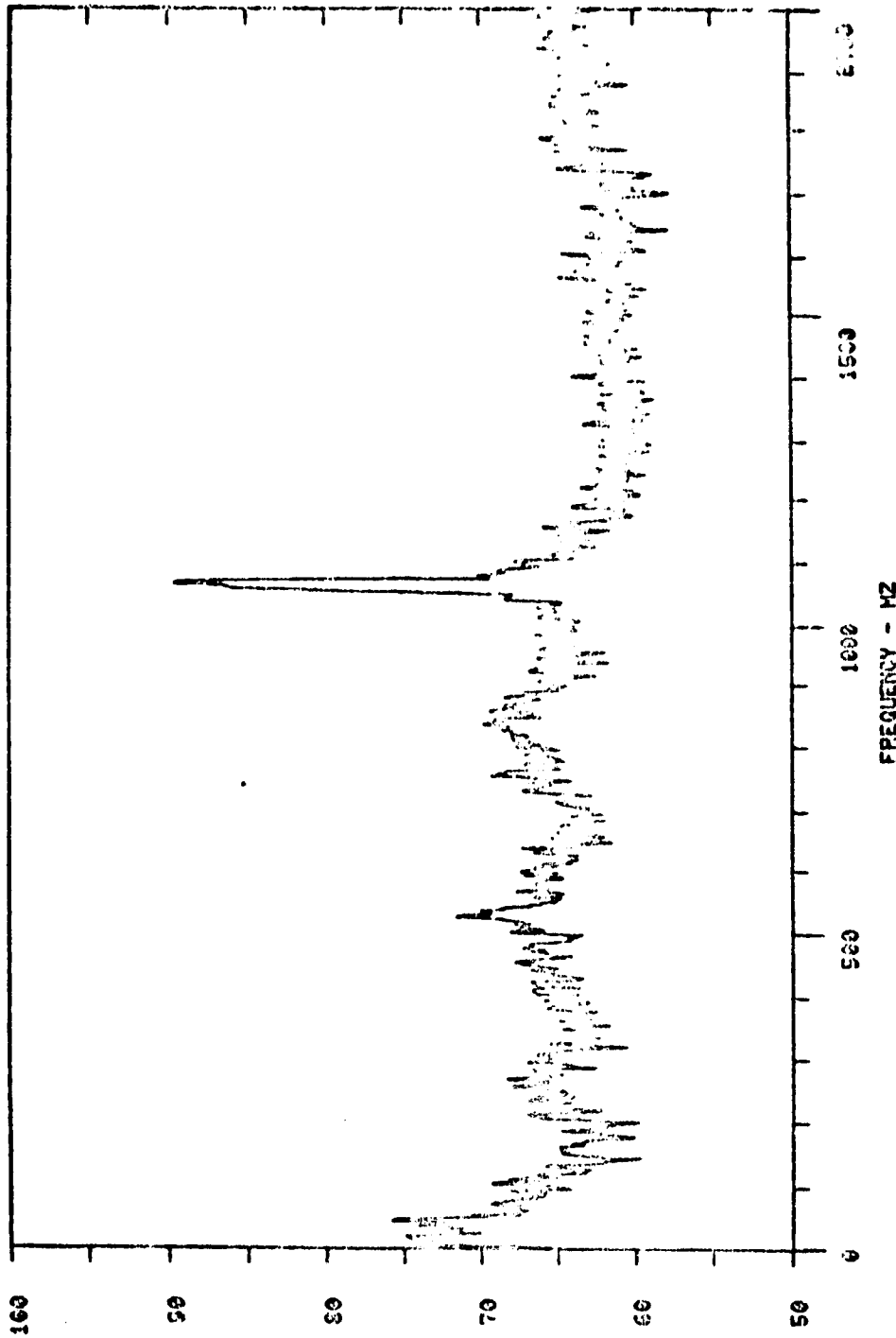
SPL - DB

ORIGINAL PAGE IS
OF POOR QUALITY

MIC 30 DEG
RDS NO 544
FOM STREED 525 BOM
CARTL 00.3 DD
23

ACT NO 00
FOM STREED 525 BOM
G/S 1.7 0.0010
BS/GR 40'57' 0102

CF6-50 CORE NOISE PROGRAM.

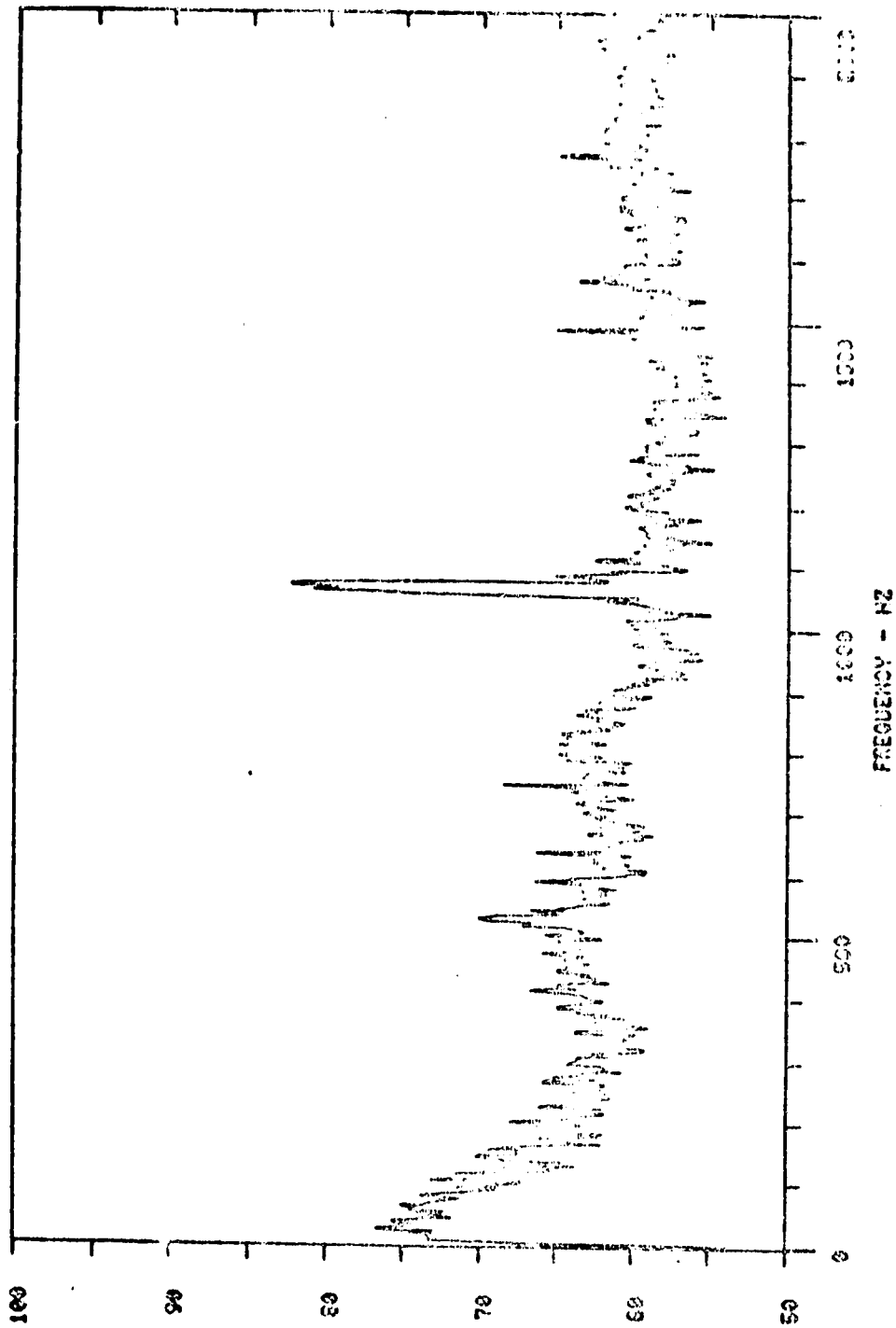


22L - 23

MAX 40 DEG
RCS NO 514
FAN SPEED 965 RPM
CASPL 22.8 DB

RUN NO 22
* TRUST = 3.03
G/S 1.7 0.00103
TS/SR 4000/ 0102

CF6-50 CORE NOISE PROGRAM.

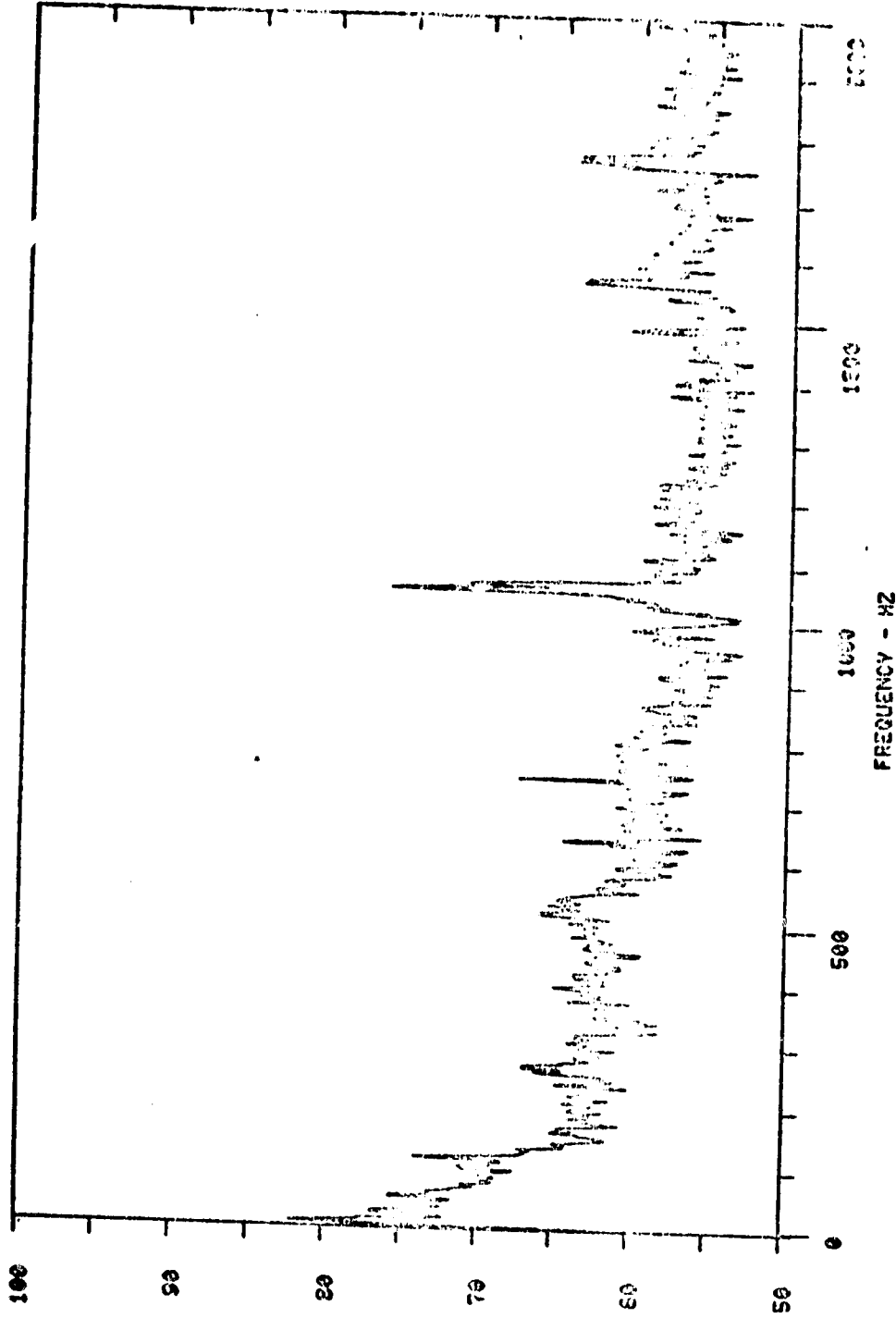


SP1 - 22

MIC 50 DEG
P22 NO 544
FAN SPEED 305 RPM
Q222 53.4 DC

RUN NO 33
X TRUST= 3.00
9/5 1.7 0.0333
DEGR 4000/ 3103

CF6-50 CORE NOISE PROGRAM.



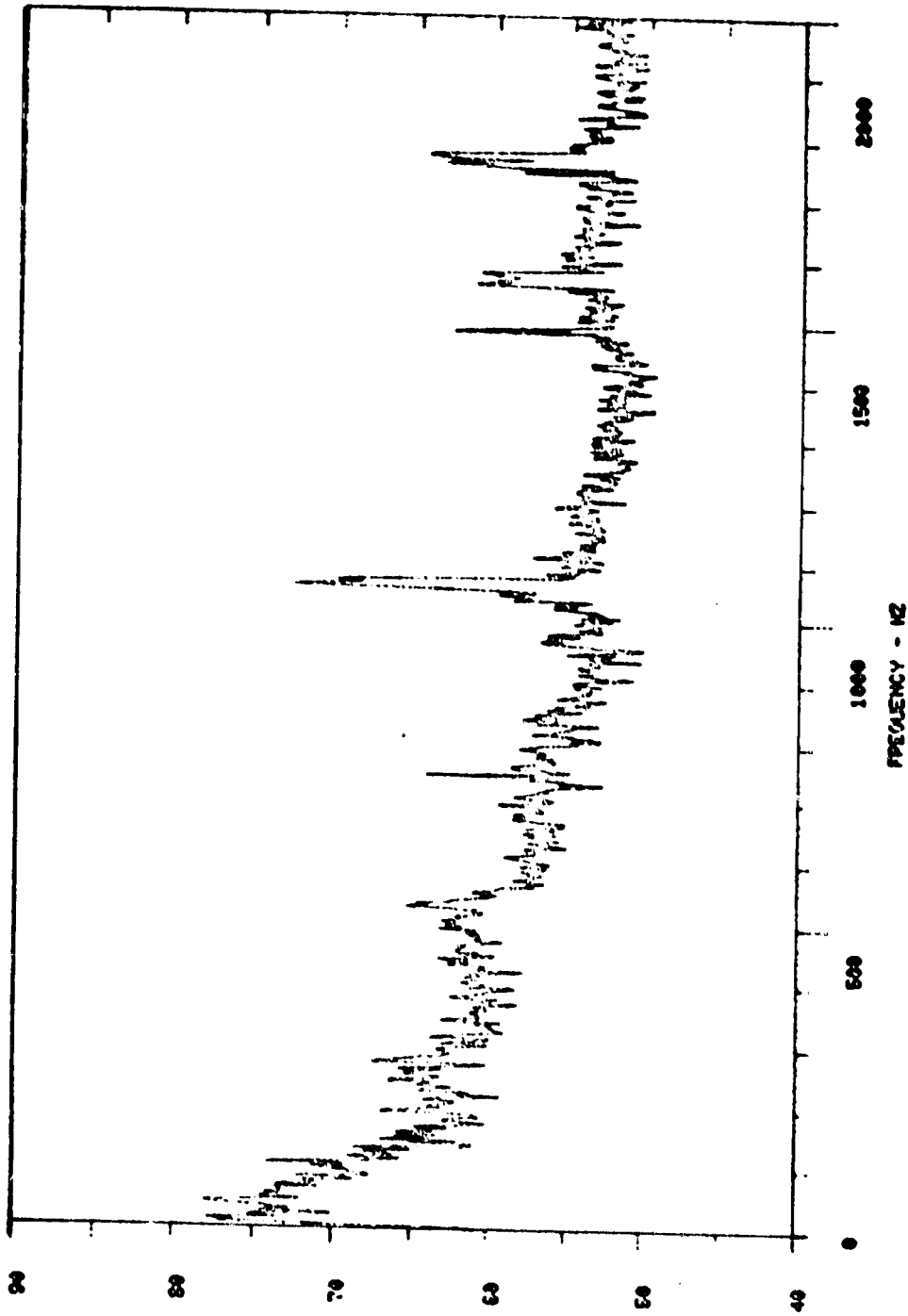
SPL - DB

ORIGINAL PAGE IS
OF POOR QUALITY

NIC 60 DEG
RPM NO 544
FAN SPEED 605 RPM
CASPL 93.8 DB

RUN NO 20
N THRUST = 3.83
0/5 1./ 0.00103
B9/SR 403E/ 8192

CF8-50 CORE NOISE PROGRAM.

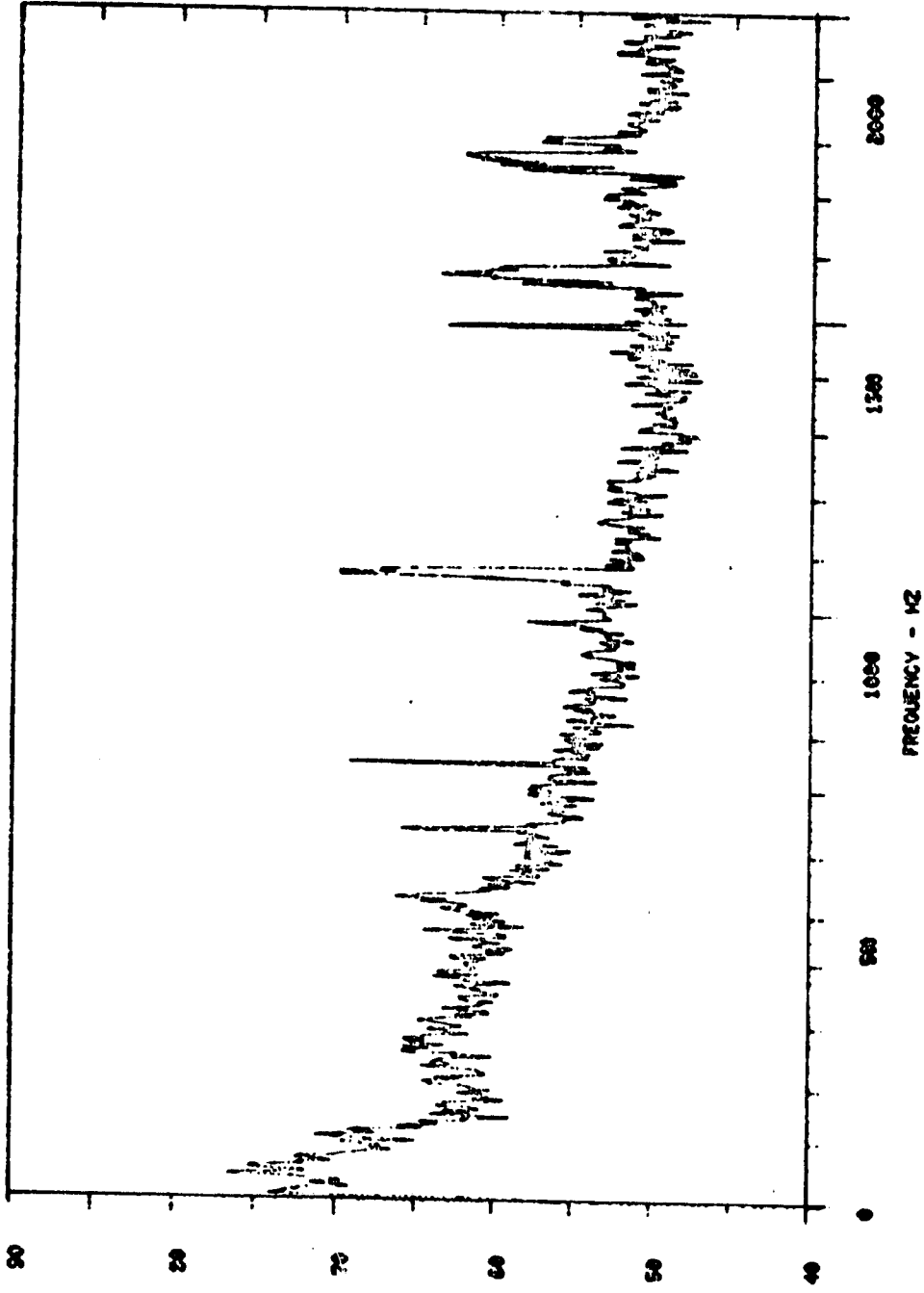


SPL - D3

NIC 70 DEG
RDC 110 E-44
RAN SPEED 605 RPM
CRSPL 92.8 DB

RUN NO 38
X TRUST = 3.88
G/S 1. / 0.00103
R/R 4650 / 8128

CF6-80 CORE NOISE PROGRAM.

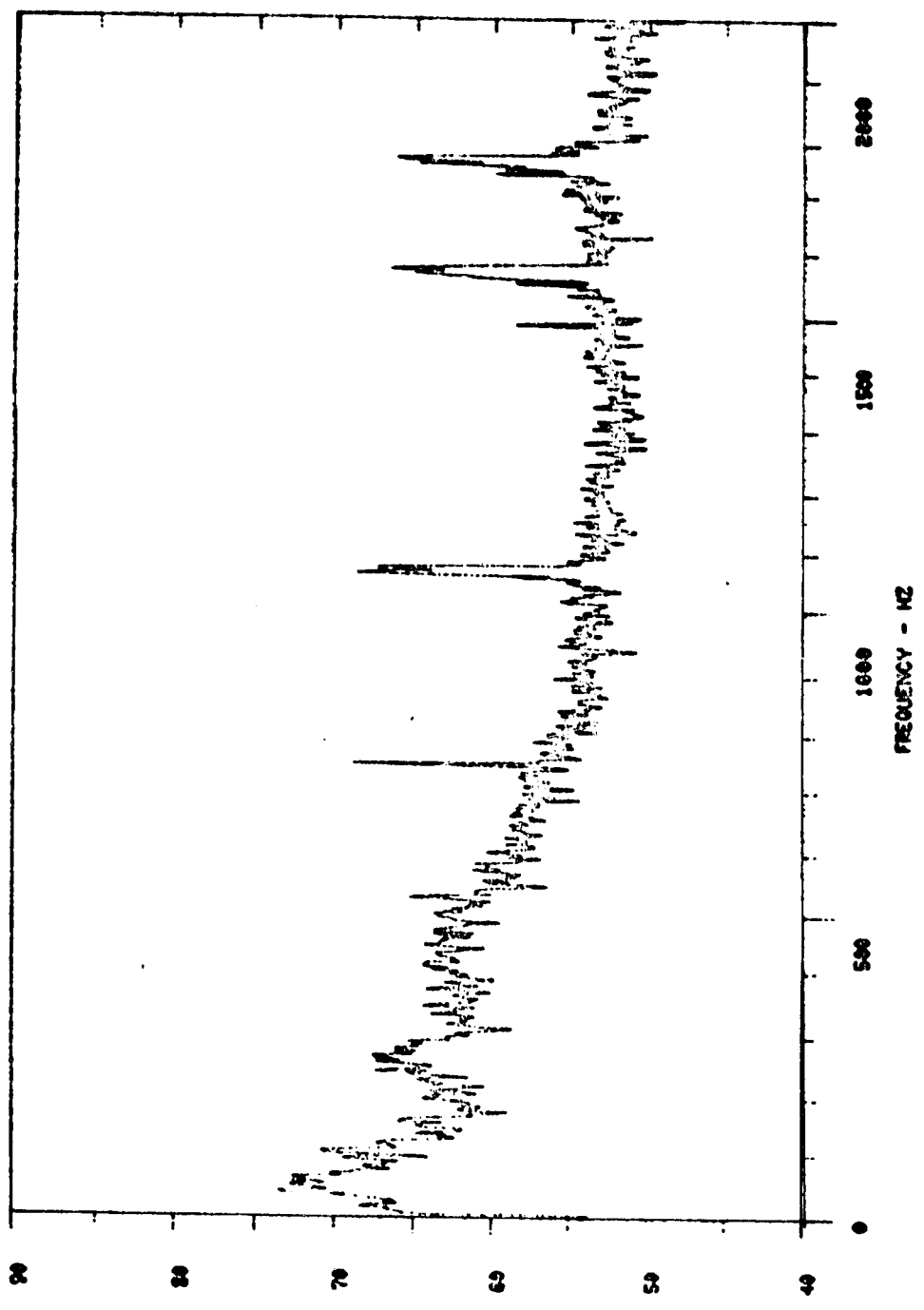


87L - 03

RIC 30 DEG
EDG NO 544
FAN SPEED 865 RPM
COPPL 91.4 DB

RUN NO 33
% THRUST 3.88
0/5 1.7 0.0010
04/28 4000/ 8100

CF6-80 CORE NOISE PROGRAM.

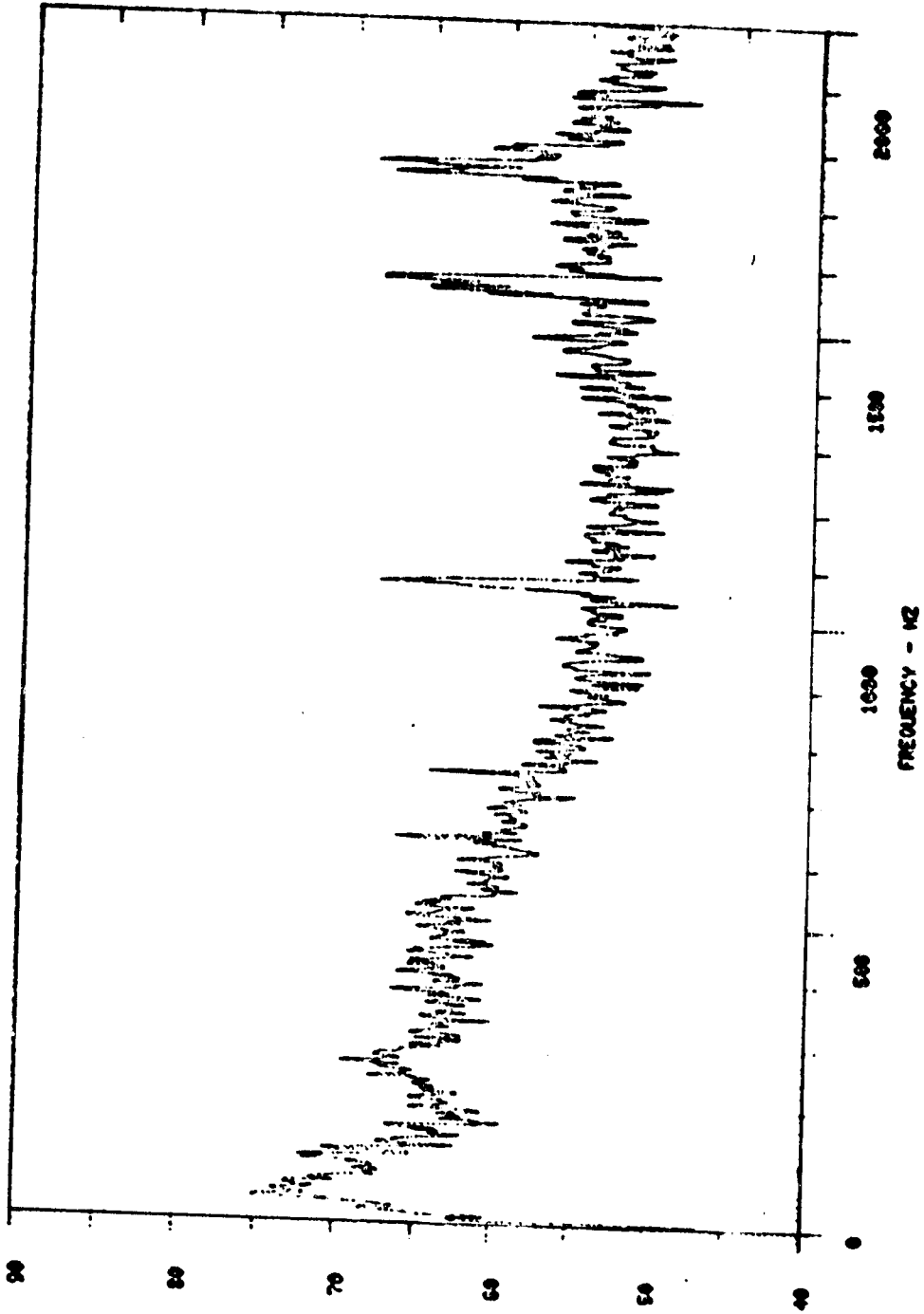


SPL - DB

RIC 90 DEG
CSC NO 544
FAN SPEED 865 RPM
OMSP 50.9 DB

RUN NO 30
X TRUST 3.08
G/S 1.7 9.04723
DR/DR 4928/ 2108

CFS-69 CORE NOISE PROGRAM.



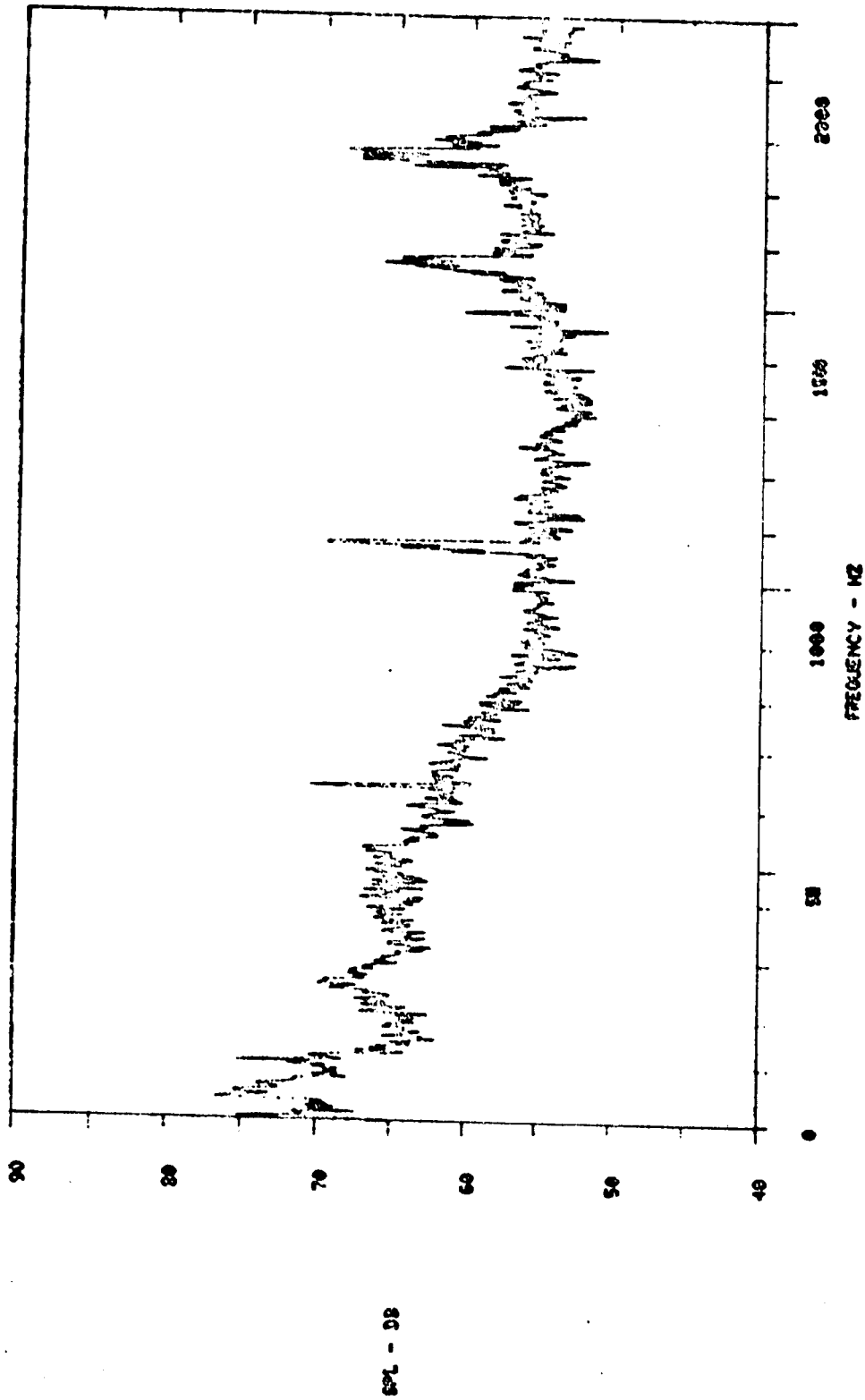
SPL - DB

PLN NO 38
X TRFUST- 3.88
0/3 1.7 0.00100
M/DR 4000/ 8100

MIC 100 DEG
PDS NO 544
FM SPEED 855 RPM
OASPL 91.9 DB

ORIGINAL PAGE IS
OF POOR QUALITY

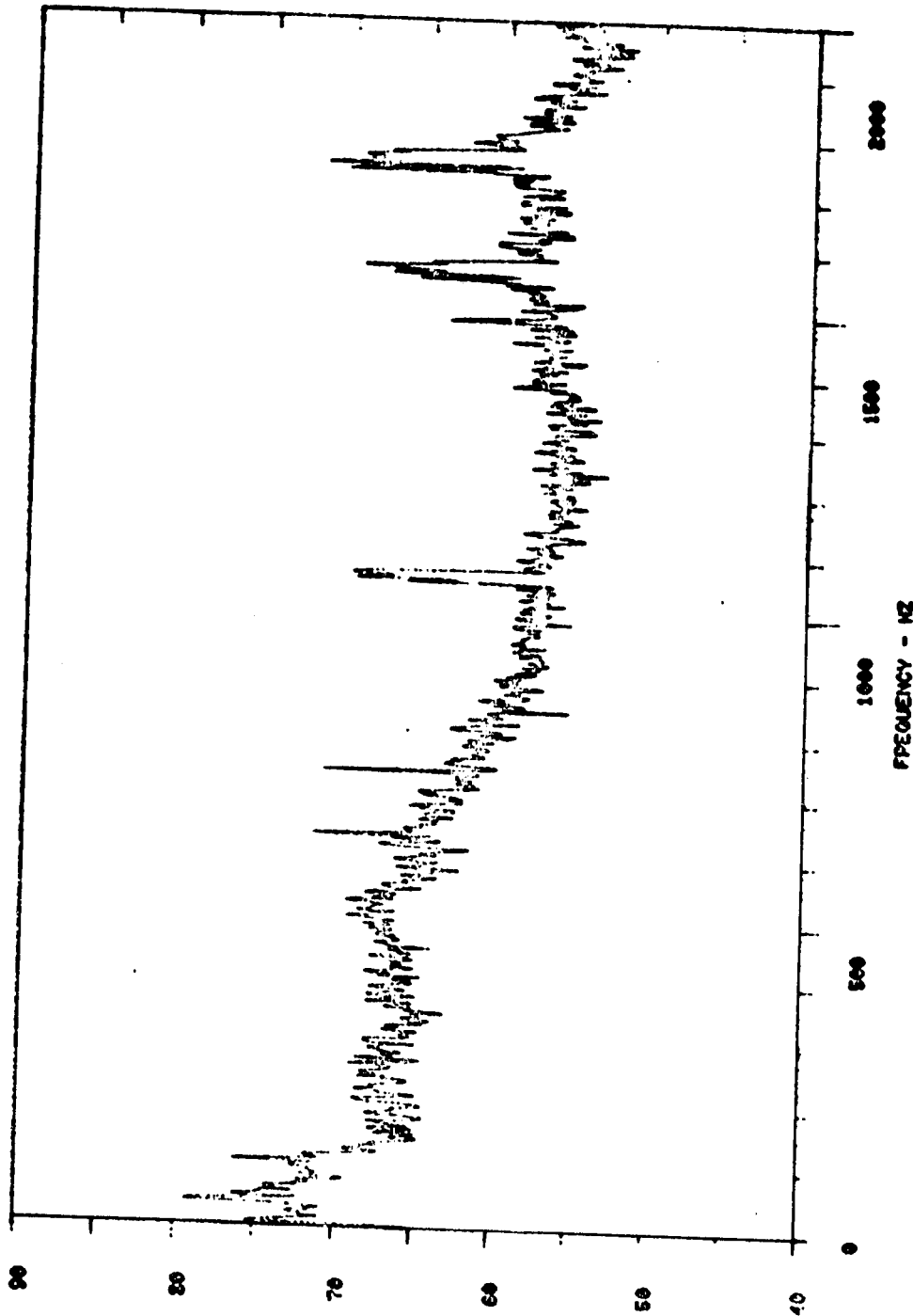
CFAD CORE NOISE PROGRAM.



NIC 110 DEG
EDG NO 544
FAN SPEED 565 RPM
OASPL 53.4 DB

RUN NO 38
X TRUST 3.28
D/S 1.7 0.06153
E3/2R 4053/ 8153

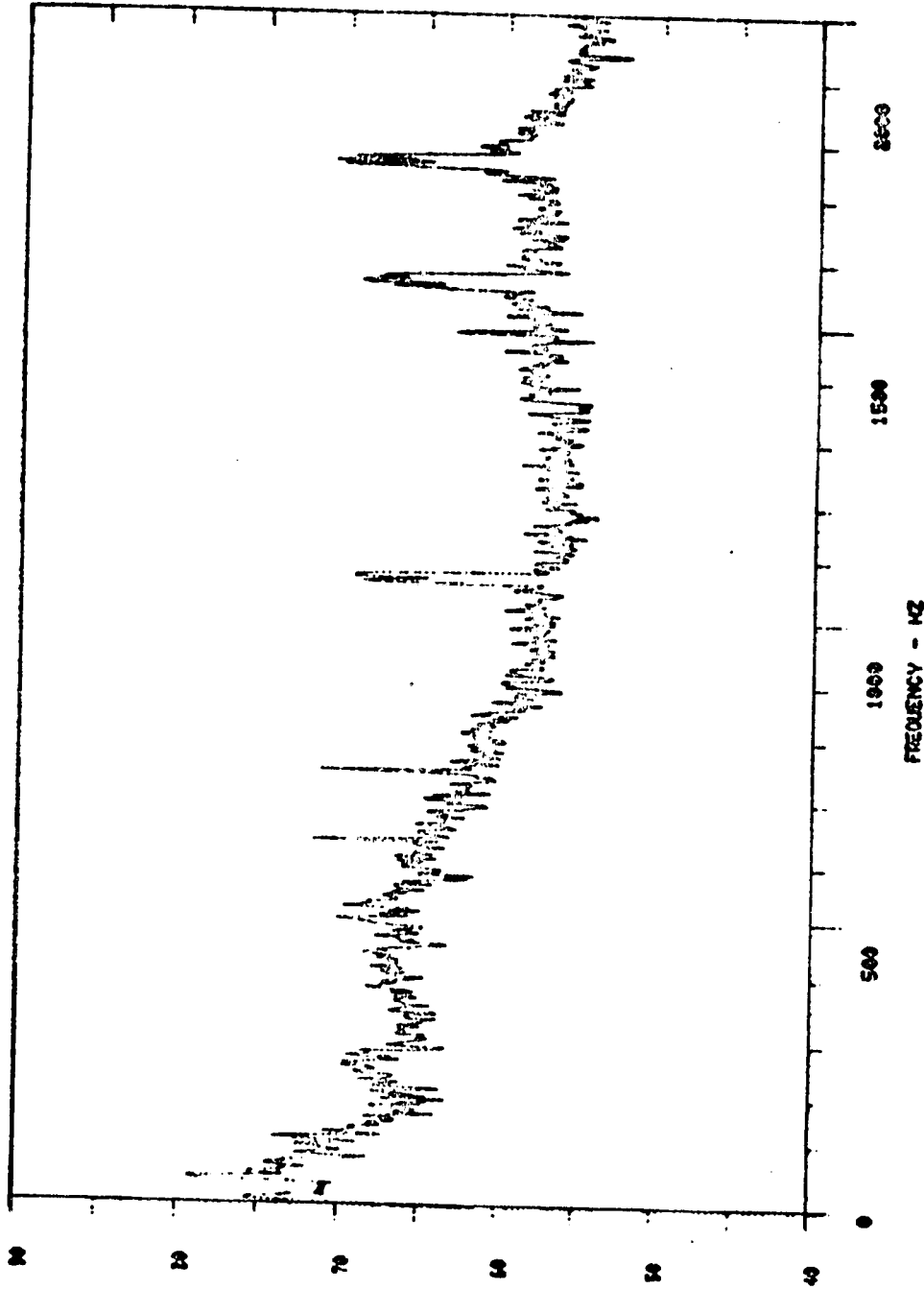
CF6-80 CORE NOISE PROGRAM.



MIC 120 DEG
 REC NO 544
 FAN SPEED 865 RPM
 OASPL 85.0 DB

RUN NO 38
 % THRUST 3.88
 C/S 1.7 0.03103
 DS/DR 4000/ 8100

CF6-80 CORE NOISE PROGRAM.



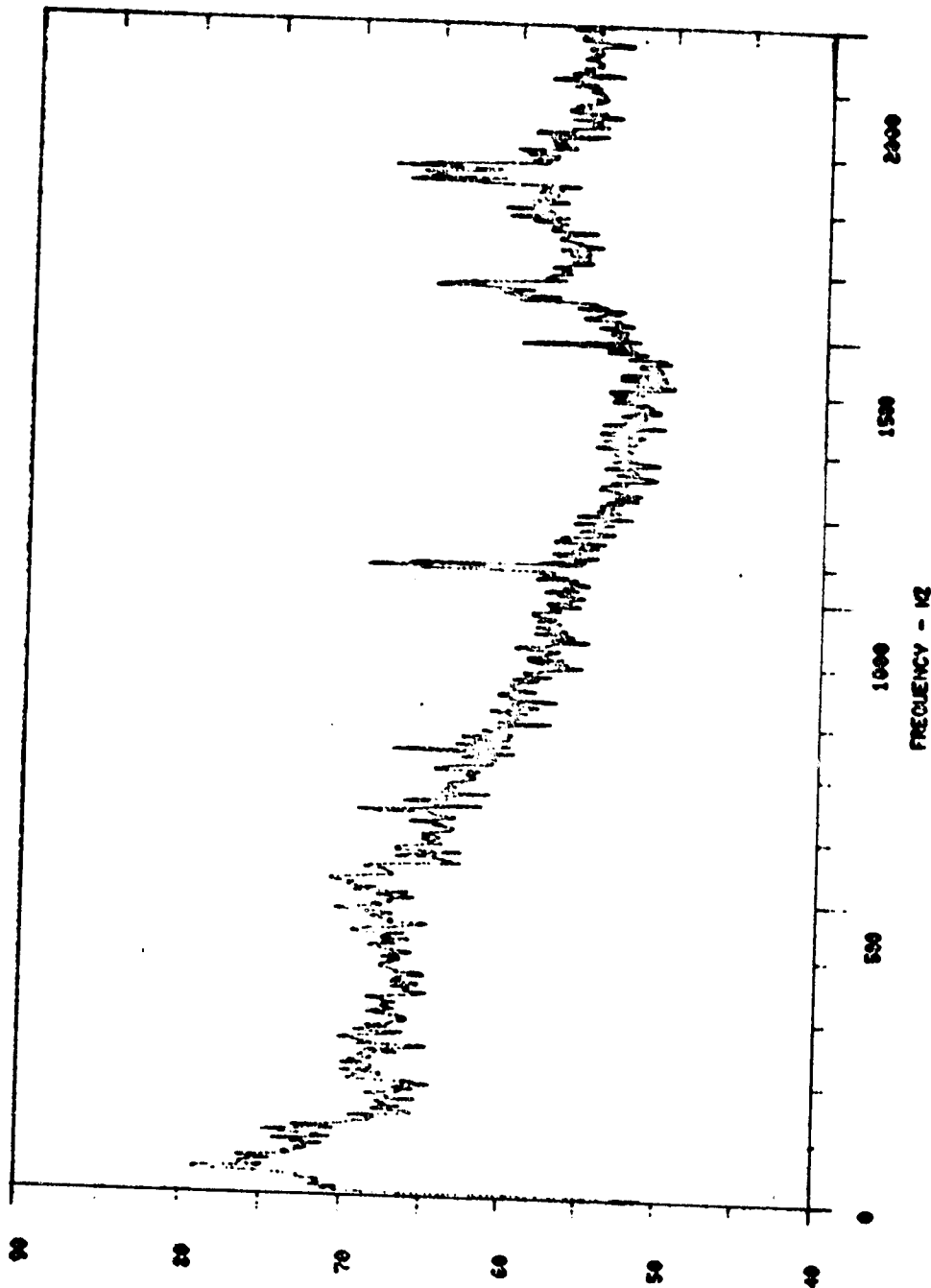
RUN NO 28
% THRU 3.88
0/1 1./ 0.03163
SQUER 4058/ 8192

NIC 130 DEG
RDC NO 544
FAN SPEED 865 RPM
OASPL 94.9 DB

81 - 28

ORIGINAL PAGE IS
OF POOR QUALITY

CFB-50 CORE NOISE PROGRAM.

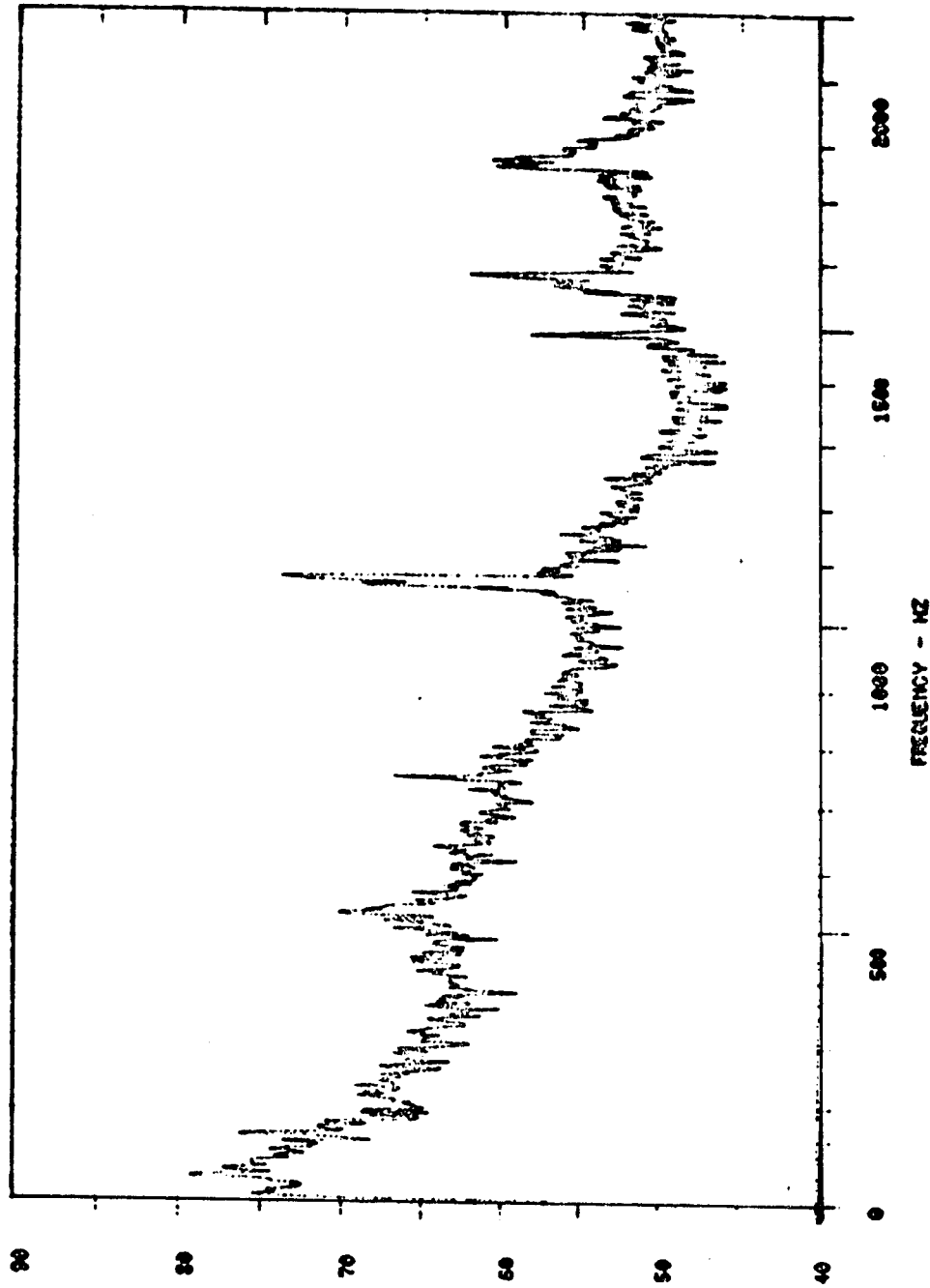


SPL - DB

MIC 140 DEG
 PCC NO 544
 FAN SPEED 835 RPM
 OASPL 55.2 DB

RUN NO 38
 * TRIGUST. 3.53
 6/3 1.1 0.00100
 20/20 4000/ 8100

CF6-80 CORE NOISE PROGRAM.

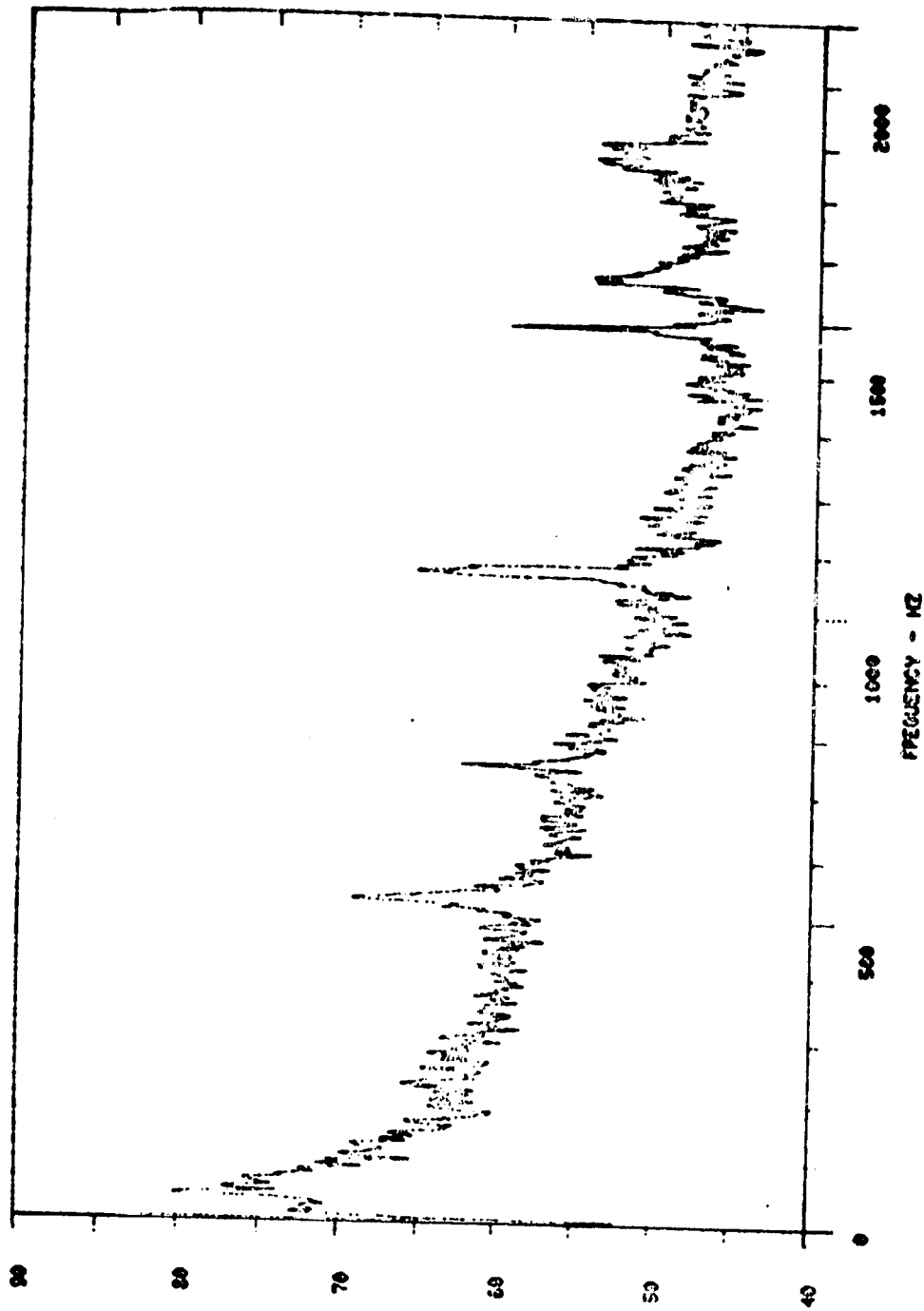


SPL - DB

RIC 159 DEG
ENG NO 544
FAN SPEED 855 RPM
CASEL 94.3 DB

RUN NO 38
IN THRUST 3.58
C/S 1.1 0.65103
38/28 4500/ 8103

CF6-50 CORE NOISE PROGRAM.

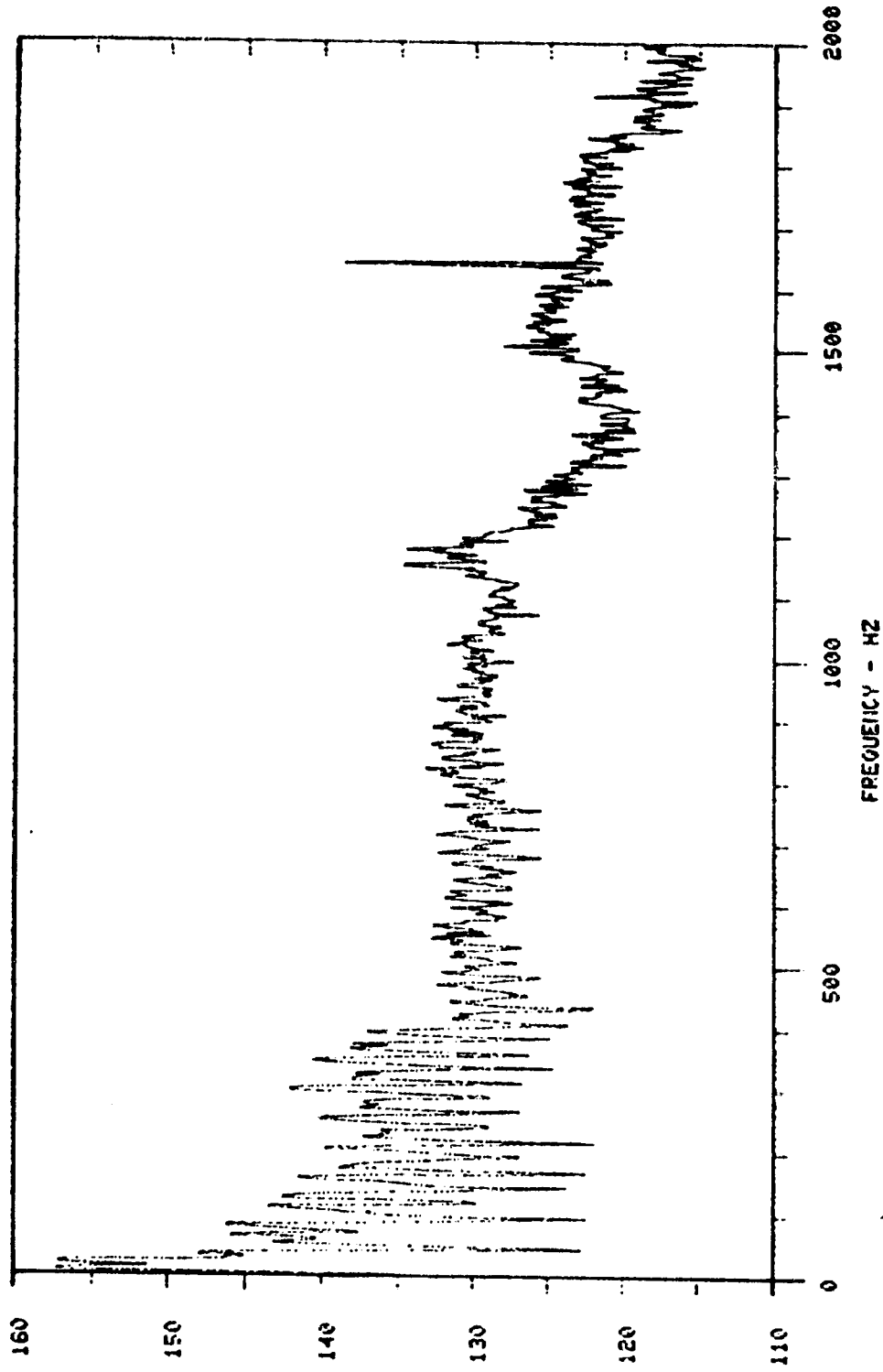


6PL - 03

FIG 100 DEG
 SEQ NO 544
 FAN SPEED 265 RPM
 OASPL 82.4 dB

RUN NO 20
 X THRUST 3.03
 67 1.7 0.00103
 20/20 4020/ 8100

CF6-50 CORE NOISE PROGRAM.



FPL - DB

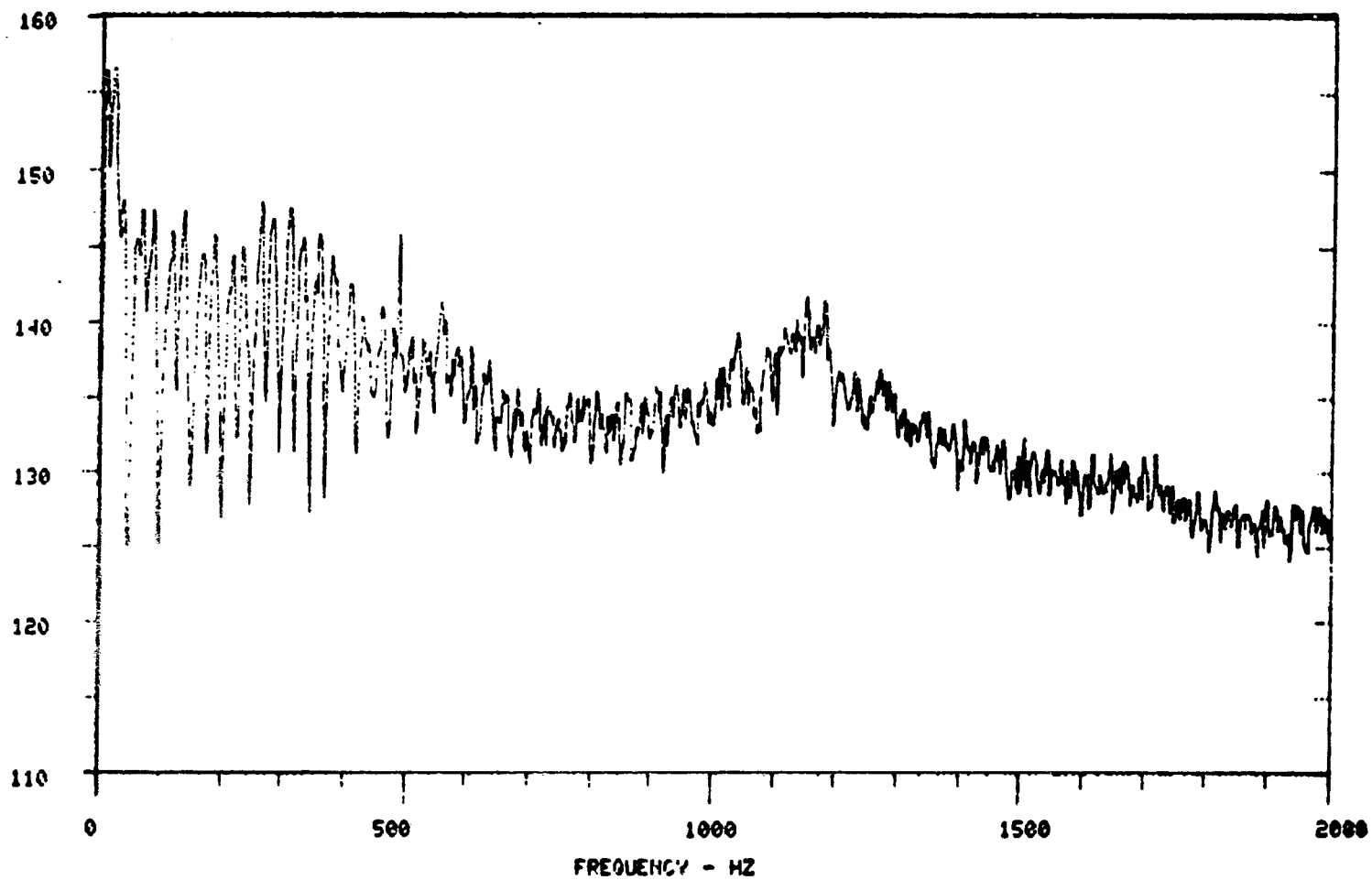
KULITE 18
RDG NO 545
FAN SPEED 2102 RPM
OAFPL 167.4 DB

37

RUN NO 40
X THRUST=28.51
O/S 1.7 2.0000
ES/SR 4986/ 8192

CF6-50 CORE NOISE PROGRAM.

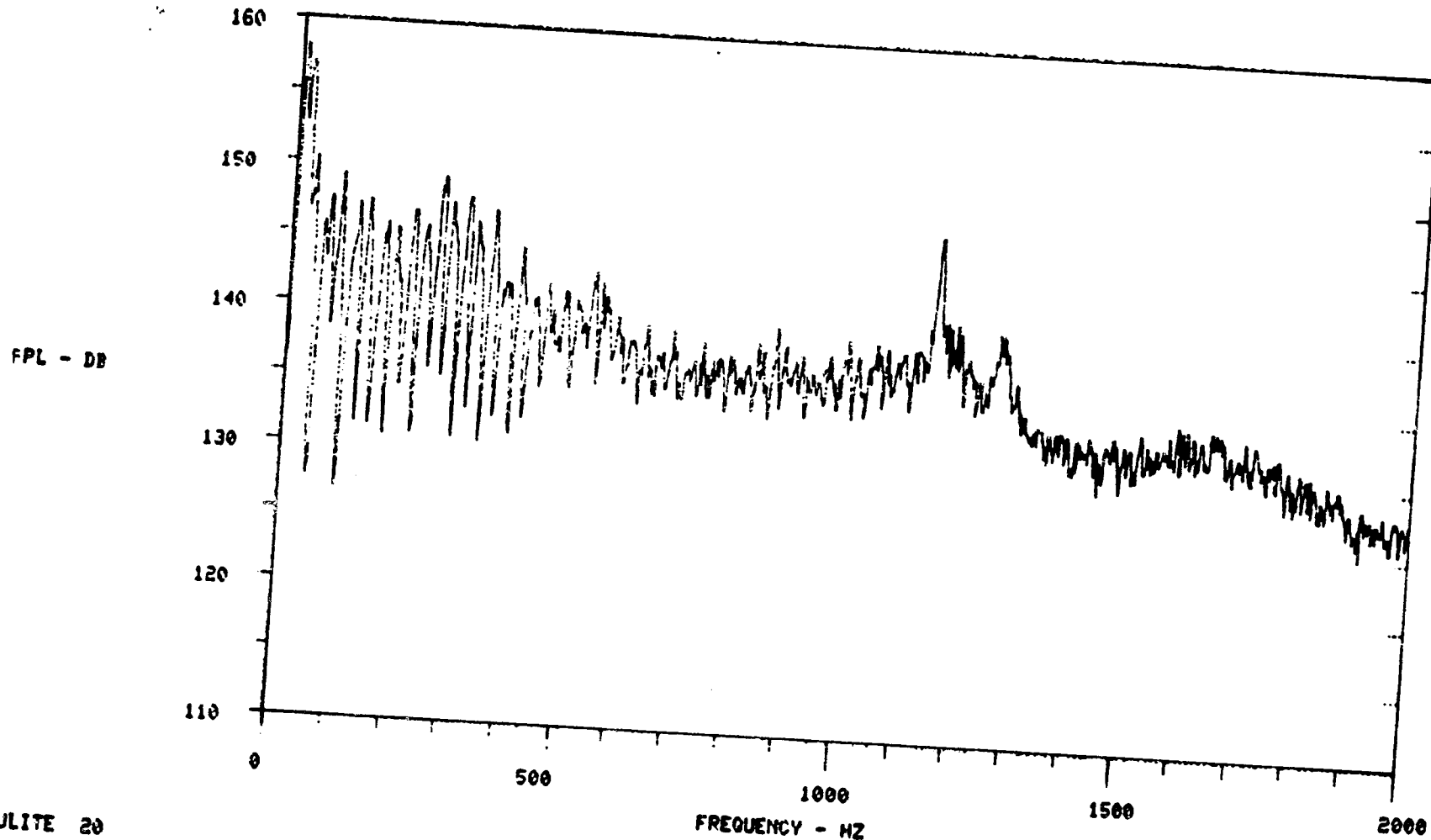
FPL - DB

ORIGINAL PAGE IS
OF POOR QUALITY

KULITE 19
RDG NO 546
FAN SPEED 2108 RPM
OAFPL 169.5 DB

RUN NO 40
* THRUST-22.51
G/S 1. / 1.00000
BS/SR 4096 / 8192

CF6-50 CORE NOISE PROGRAM.



KULITE 20
RDG NO 546
FAN SPEED 2108 RPM
OAFPL 170.6 DB

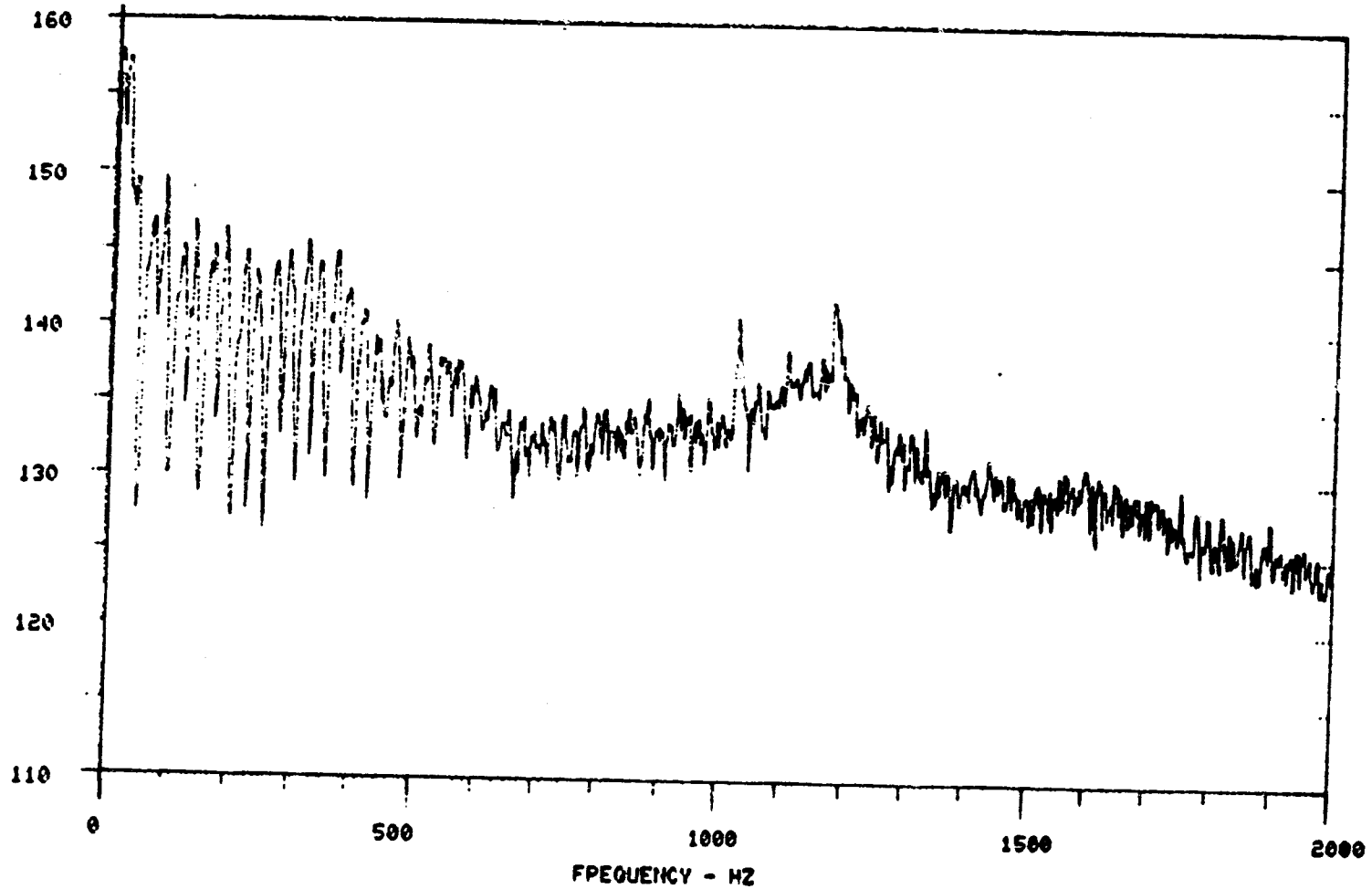
39

RUN NO 40
* THRUST-22.51
G/S 1. / 2.00900
BS/SR 4086/ 8192

CF6-50 CORE NOISE PROGRAM.

FPL - DB

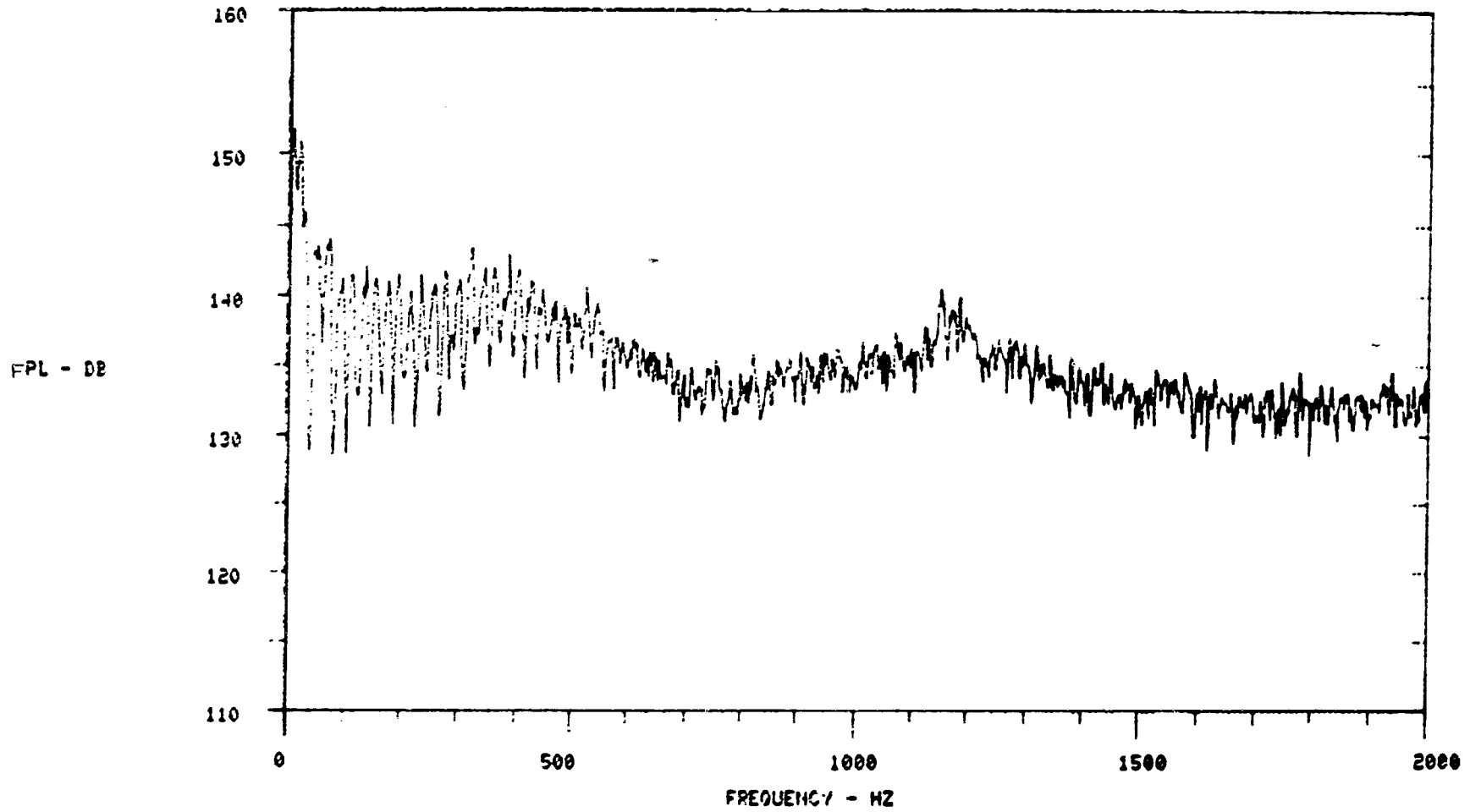
ORIGINAL PAGE IS
OF POOR QUALITY



KULITE 21
 RDG NO 546
 FAN SPEED 2108 RPM
 OAFPL 169.5 DB

RUN NO 40
 X THRUST=22.51
 G/S 1./ 1.00000
 BS/SR 4696/ 8192

CF6-50 CORE NOISE PROGRAM.



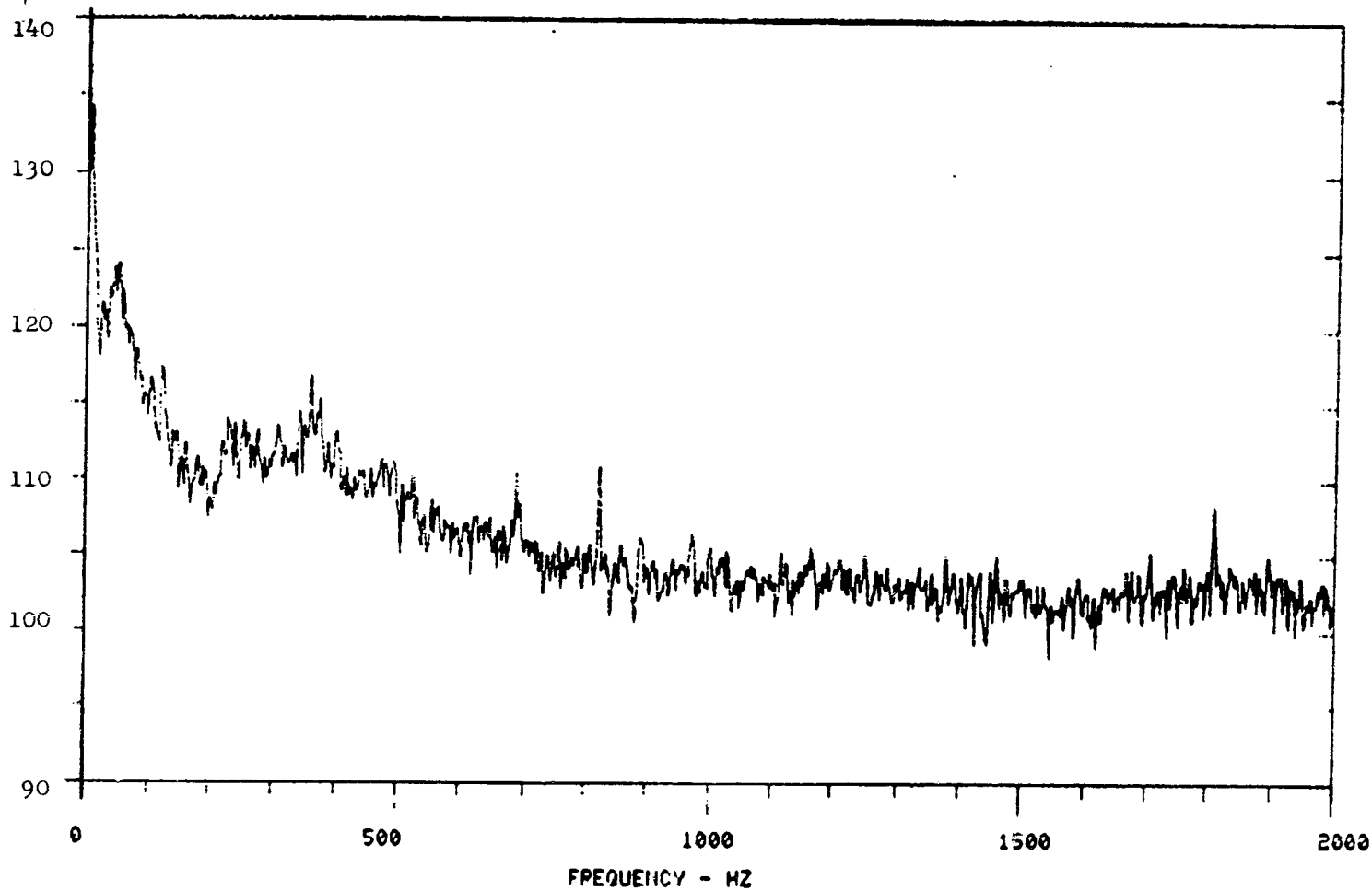
KULITE 22
RDG NO 546
FAN SPEED 2103 RPM
OAFPL 167.0 DB

41

RUN NO 40
X THRUST=22.51
Q/S 1. / 1.00000
SS/SR 4096 / 8192

CF6-50 CORE NOISE PROGRAM

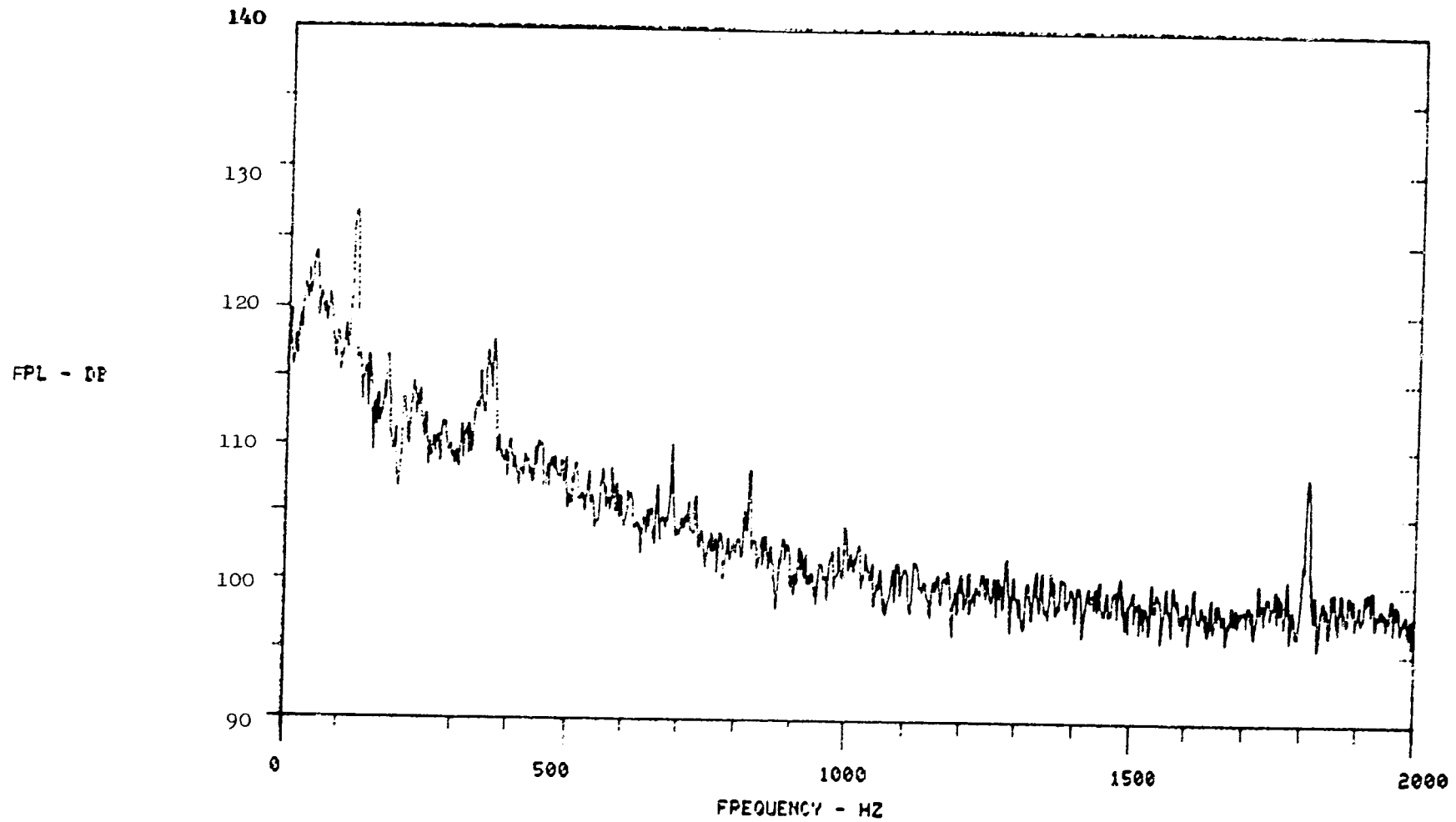
FPL - DB



KULITE 24
RDG NO 546
FAN SPEED 2108 RPM
CAFPL 142.6 DB

RUN NO 40
x THRUST=22.51
G/S 1./ 1.00000
BS/SR 4096/ 8192

CF6-50 CORE NOISE PROGRAM



KULITE 26
RDG NO 546
FAN SPEED 2108 RPM
CAFPL 140.4 DB

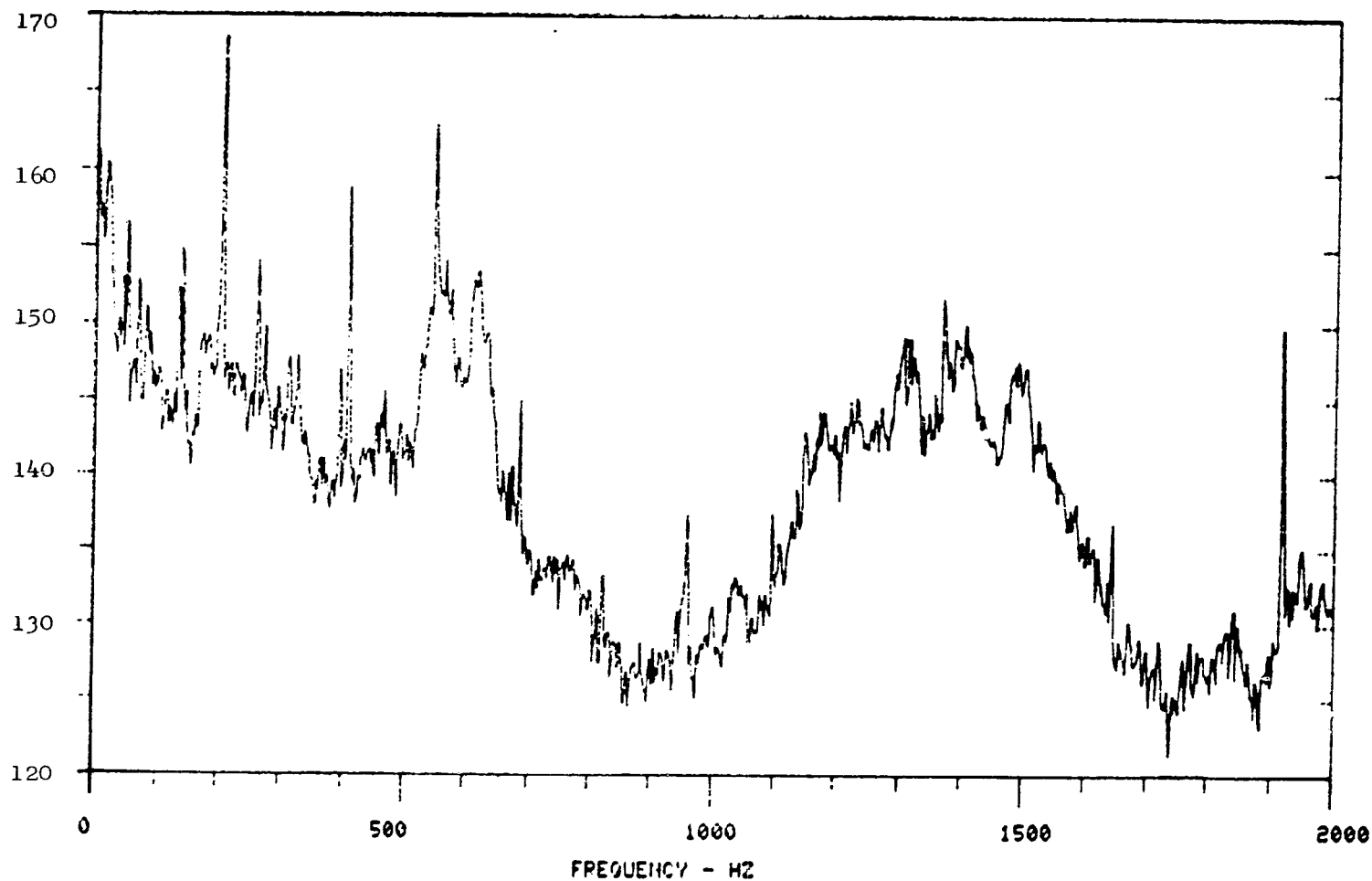
43

RUN NO 40
x THRUST-22.51
G/S 1. / 0.50000
BS/SR 4096 / 8192

44

CF6-50 CORE NOISE PROGRAM

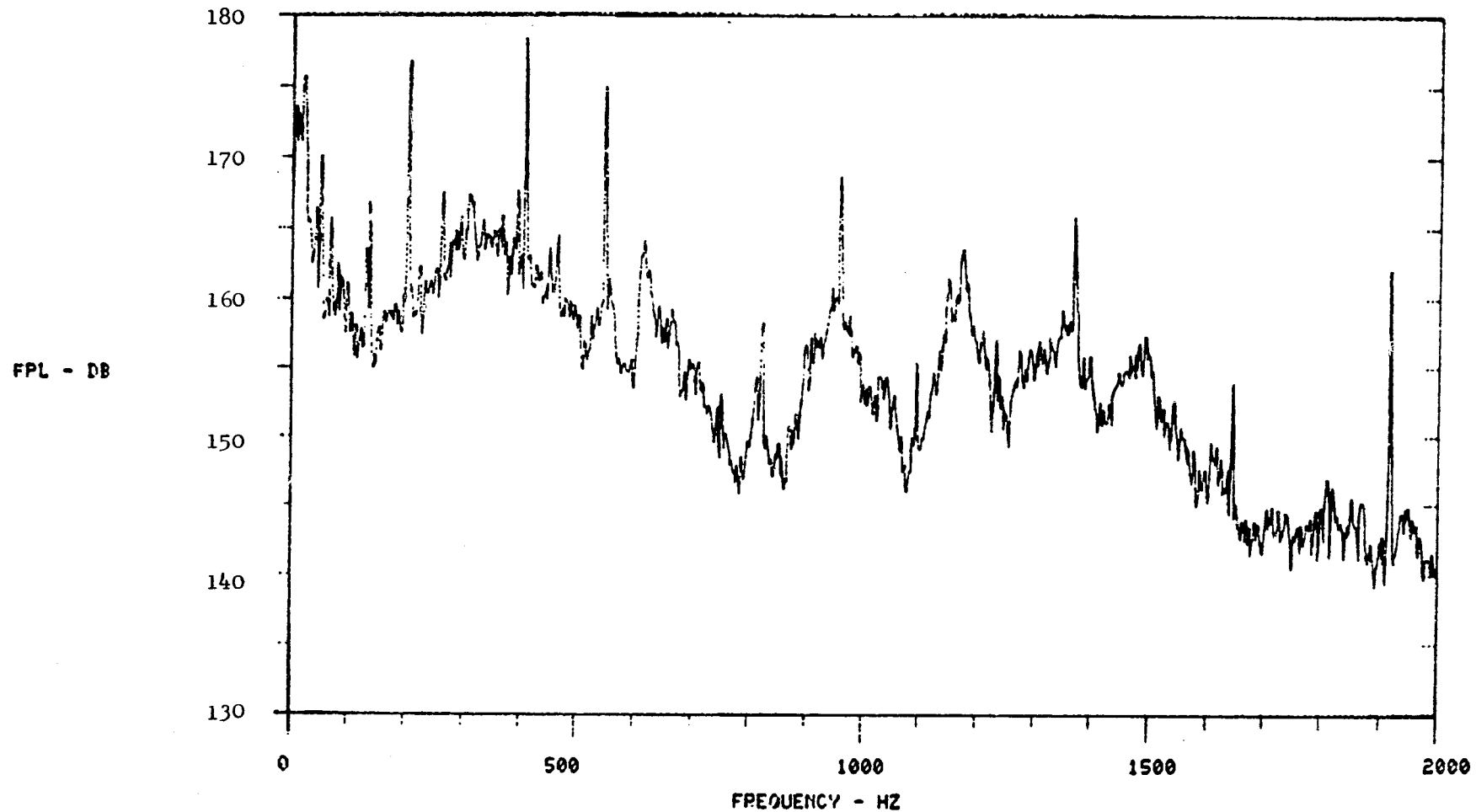
FPL - DB



KULITE 23
RDG NO 546
FAN SPEED 2108 RPM
OAFPL 176.8 DB

RUN NO 40
* THRUST=22.51
G/S 1./ 0.5000
BS/SR 4096/ 8192

CF6-50 CORE NOISE PROGRAM



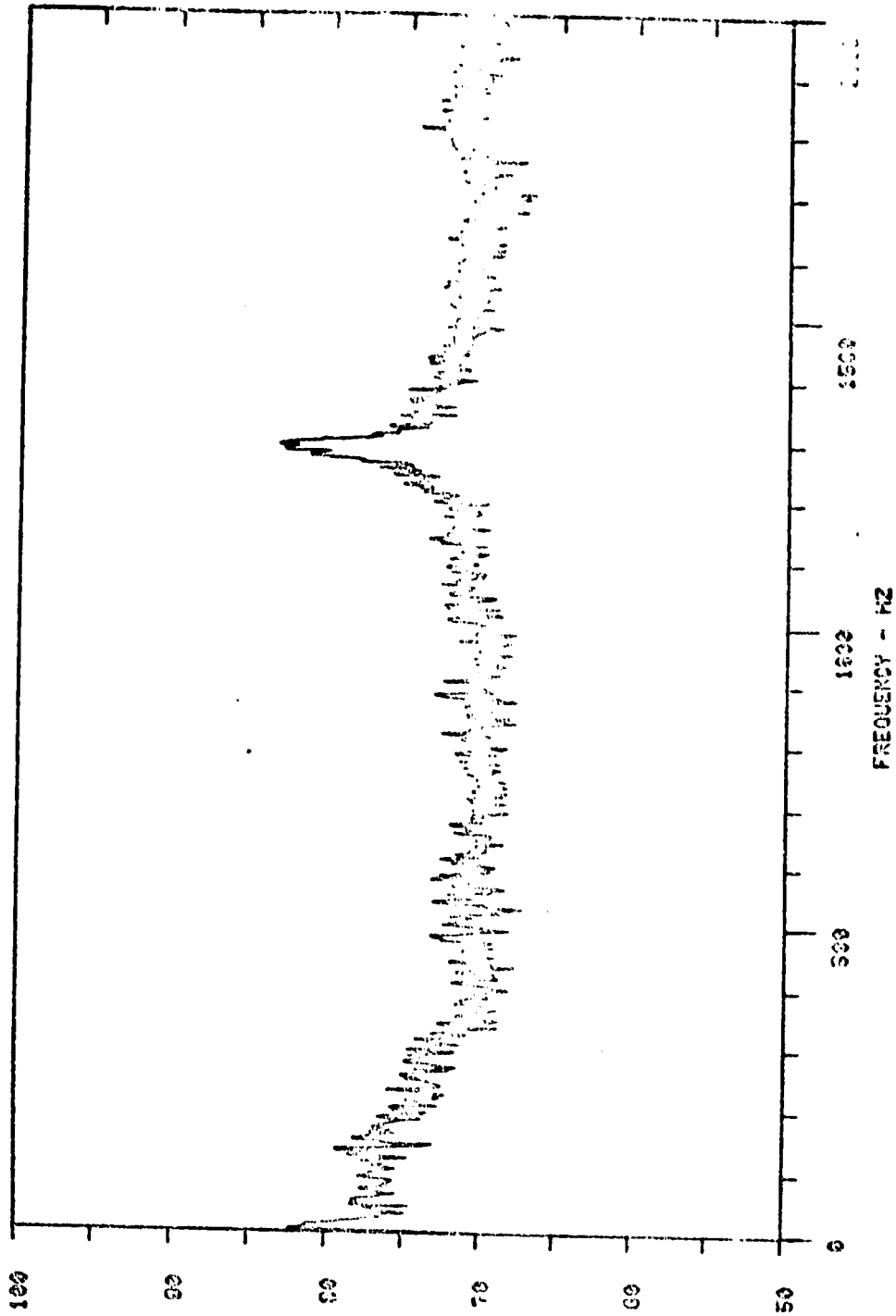
KULITE 25
RDG NO 546
FAN SPEED 2108 RPM
OAFPL 176.5 DB

45

ORIGINAL PAGE IS
OF NEGATIVE

RUN NO 40
X THRUST=22.51
G/S 1. / 2.50000
BS/SR 4096/ 8192

CF6-50 CORE NOISE PROGRAM.

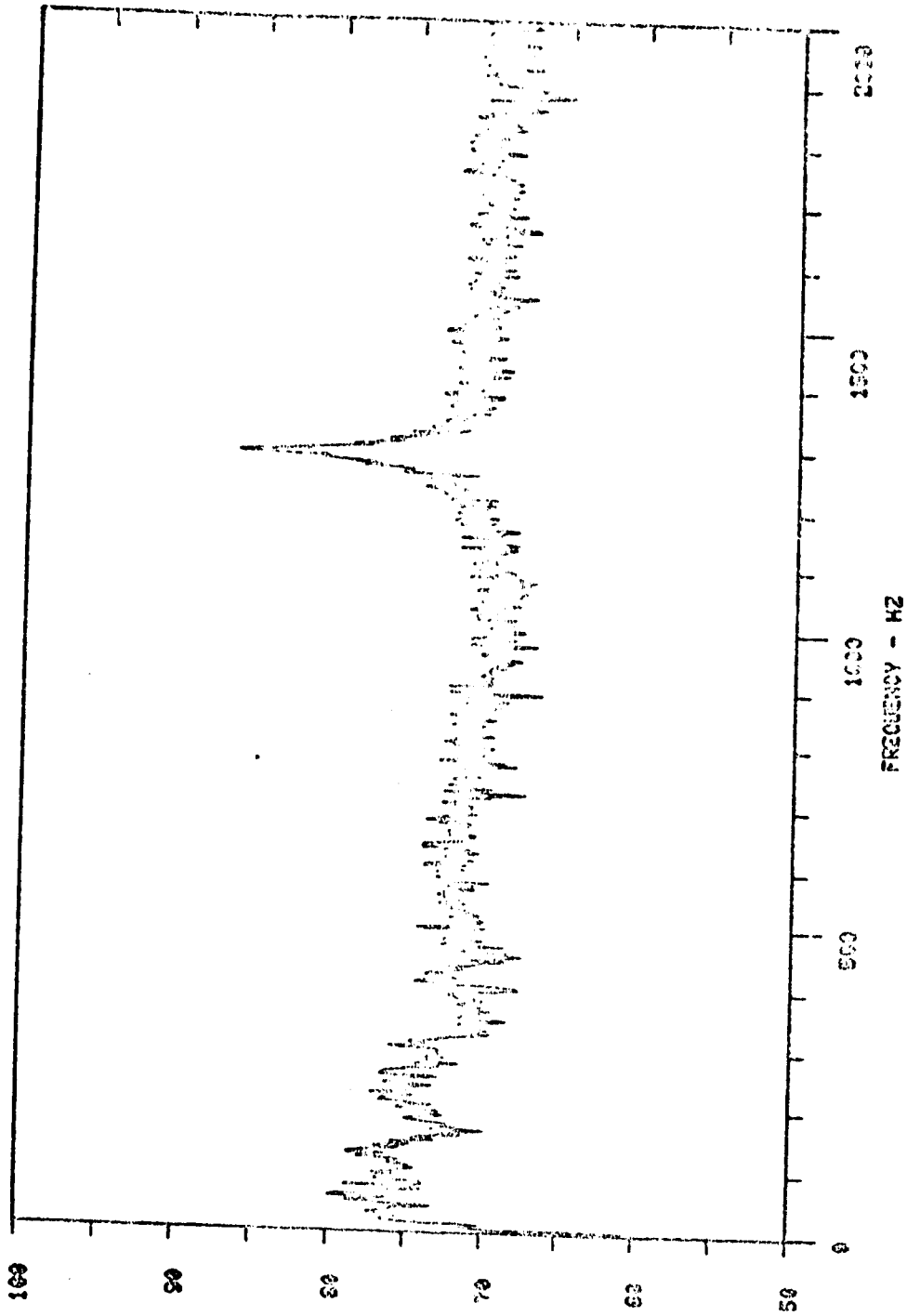


SPL - DB

NIC 10 DEG
RPM NO 545
FAN SPEED 2100 RPM
CIRCU 103.1 DS

RUN NO 49
A THROTTLE 02.51
G/S 1.7 0.00103
SS/SR 4055/ 9102

CFB-50 CORE NOISE PROGRAM.



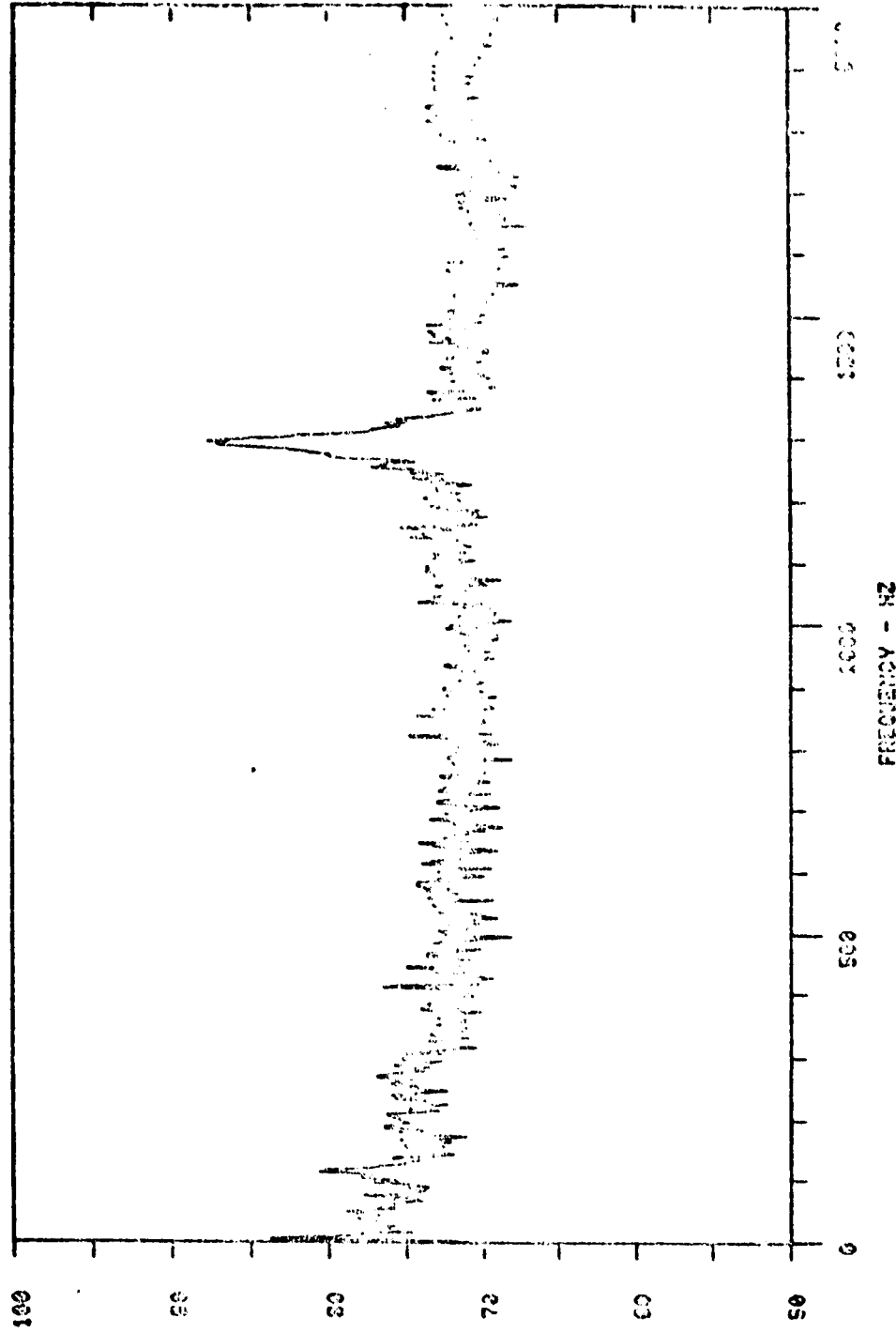
071 - 03

ORIGINAL PAGE IS
OF POOR QUALITY

FIG. 20 DEG
RUN NO 545
FAN SPEED 2100 RPM
CORE 102.6 P2

RUN NO 40
X THERMIST-21.51
6/3 1.7 0.02100
B3/28 6037 6102

CF6-50 CORE NOISE PROGRAM.

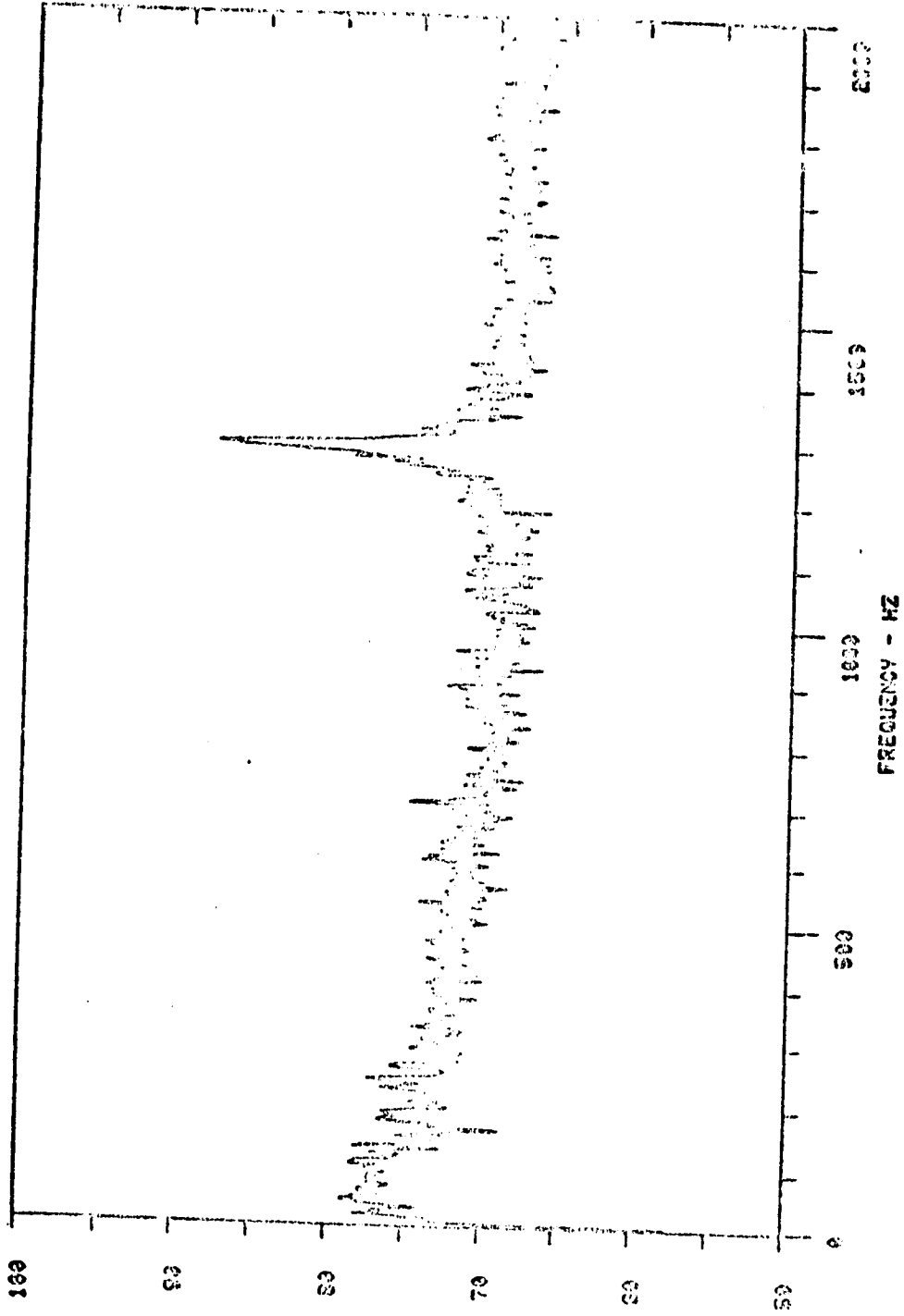


825 - 03

710 40 250
RUN NO 546
RPM SPEED 2100 RPM
COUNT 100.7 DB

RUN NO 40
* TRANSFERRED
G/S 1.7 G.0102
19/52 4002/ 5102

CFS-59 CORE NOISE PROGRAM.



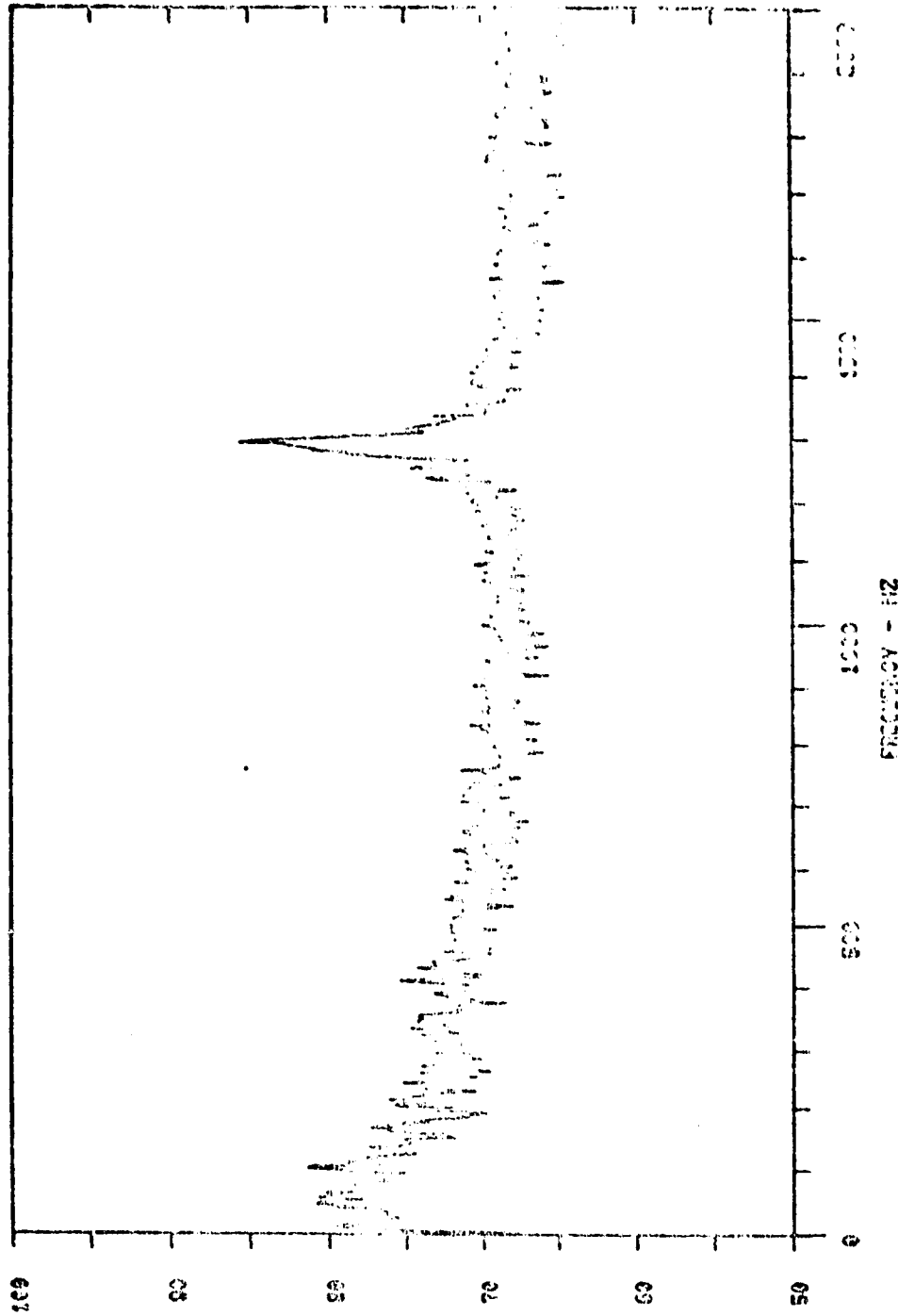
RUN NO 49
* THRUST-23.51
G/S 1.7 6.0000
DR/CR 0000/ 0000

010 50 DEG
000 NO GAS
FAN SPEED 2100 RPM
CUTL 100.0 00

00 - 00

ORIGINAL PAGE IS
OF POOR QUALITY

CFB-59 CORE NOISE PROGRAM.



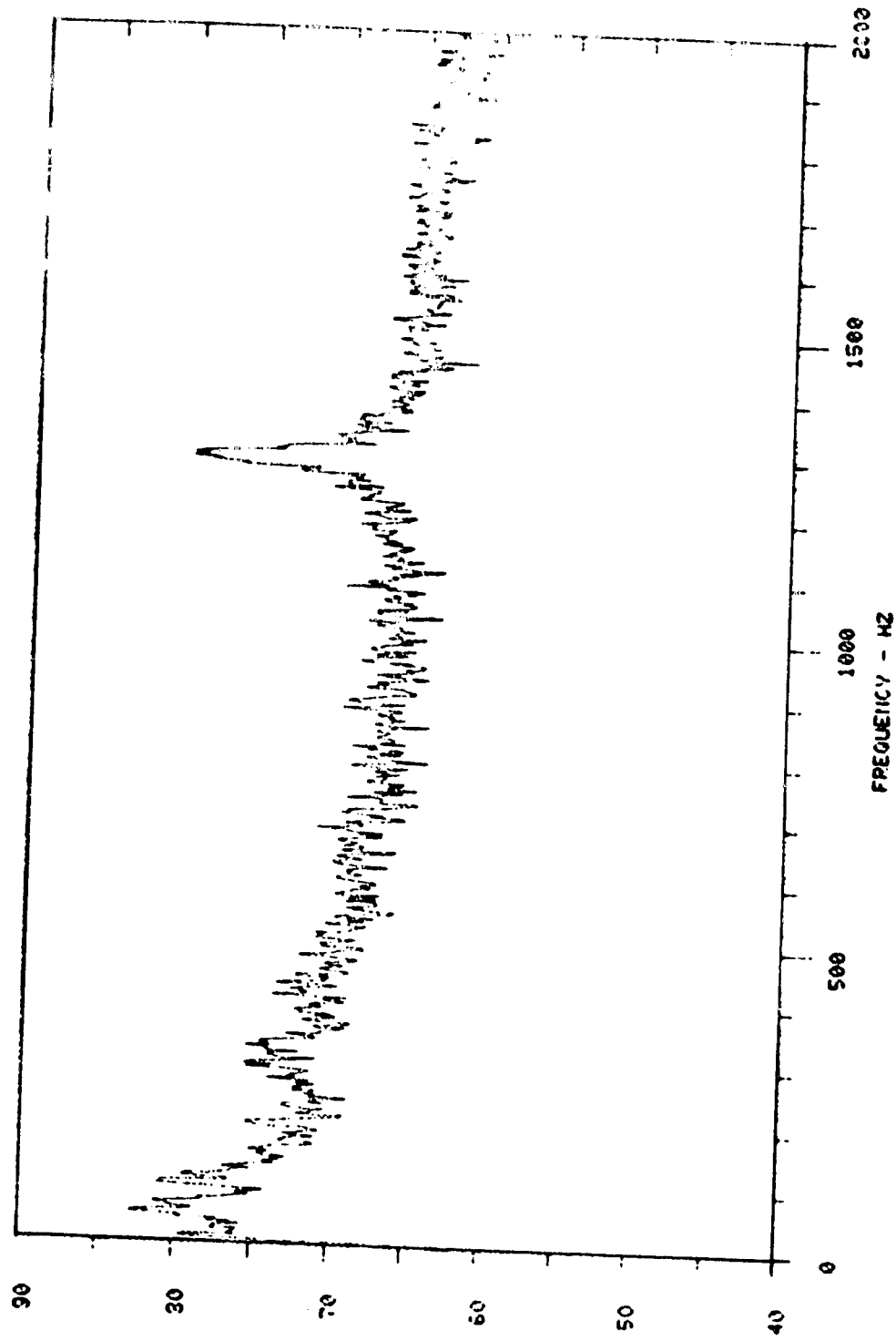
SPL - DB

FREQUENCY - HZ

REQ 59 250
FIG NO 578
FOR STORED 2103 RPM
DATE 100.0.22

RUN NO 40
N 2103-01.52
G/S 1.7 0.0100
R/S/R 0220/ 0102

CF6-50 CORE NOISE PROGRAM



SPL - DB

MIC 70
70 120 DEG

RDG NO 546

FAN SPEED 2108 RPM

OASPL 100.7 DB

51

RUN NO 40

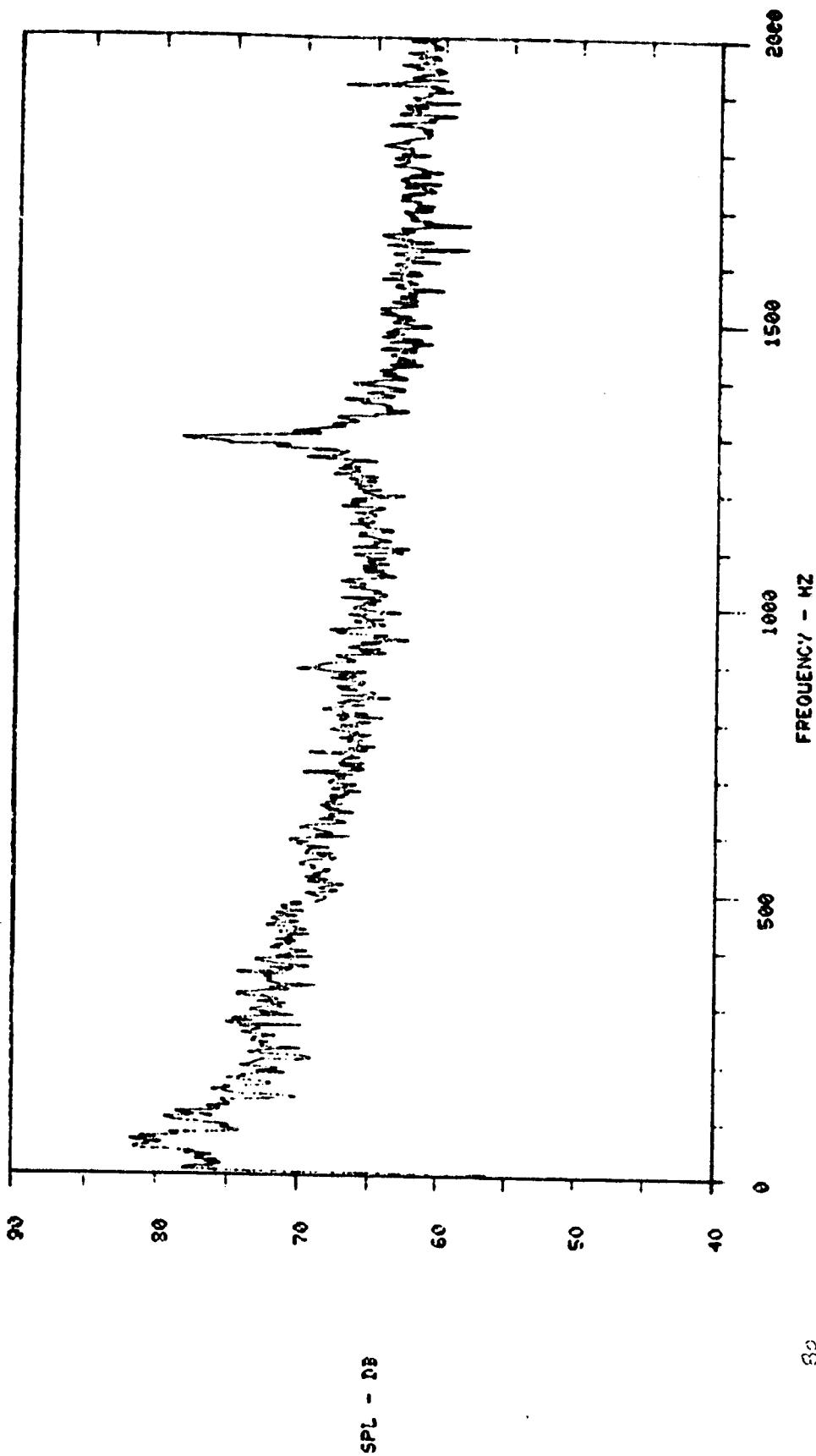
* THRUST=22.51

G/S 1. / 0.00193

B3/SR 4036/ 8152

CF6-50 CORE NOISE PROGRAM

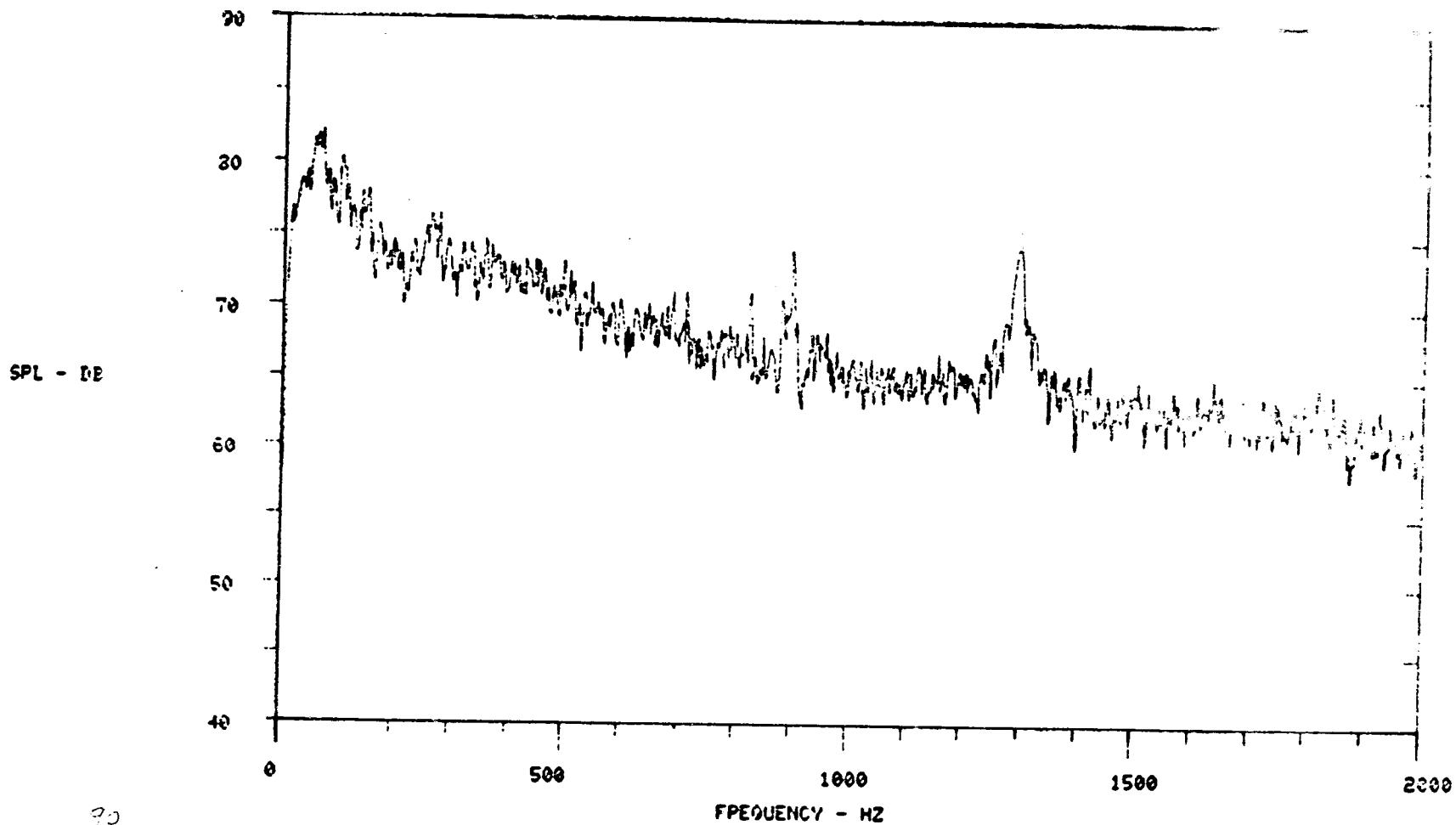
52



MIC 30 DEG
RDG NO 546
FAN SPEED 2103 RPM
OASPL 100.0 DB

RUN NO 40
% THRUST=22.51
G/S 1.7 0.00103
BS/SR 4096/ 8192

CF6-50 CORE NOISE PROGRAM



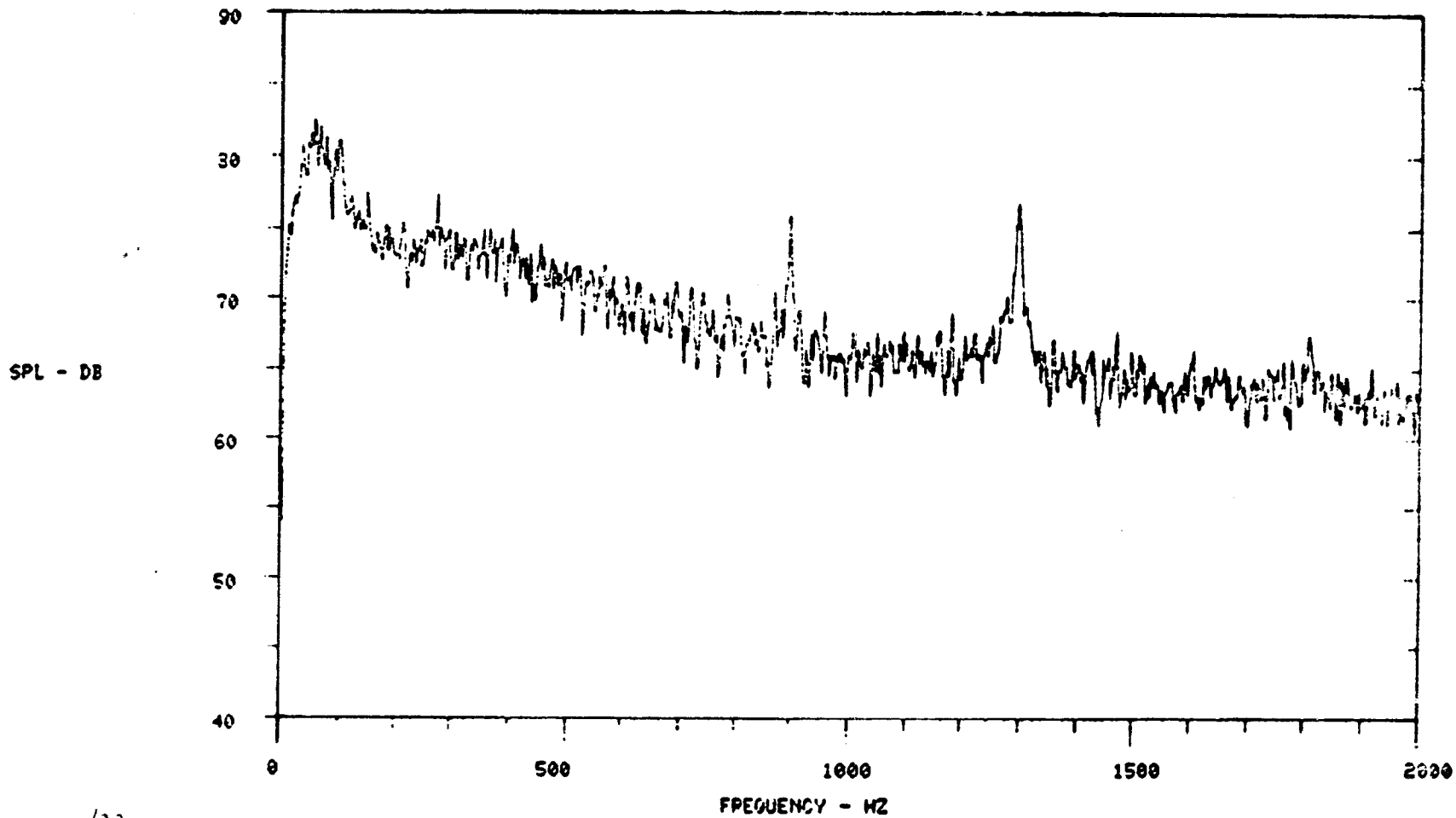
70
MIC ~~040~~ DEG
RDG NO 546
FAN SPEED 2108 RPM
CASPL 100.6 DB

01
03

RUN NO 40
X THRUST 22.51
G/S 1. / 0.00103
BS/SR 4096 / 8192

54

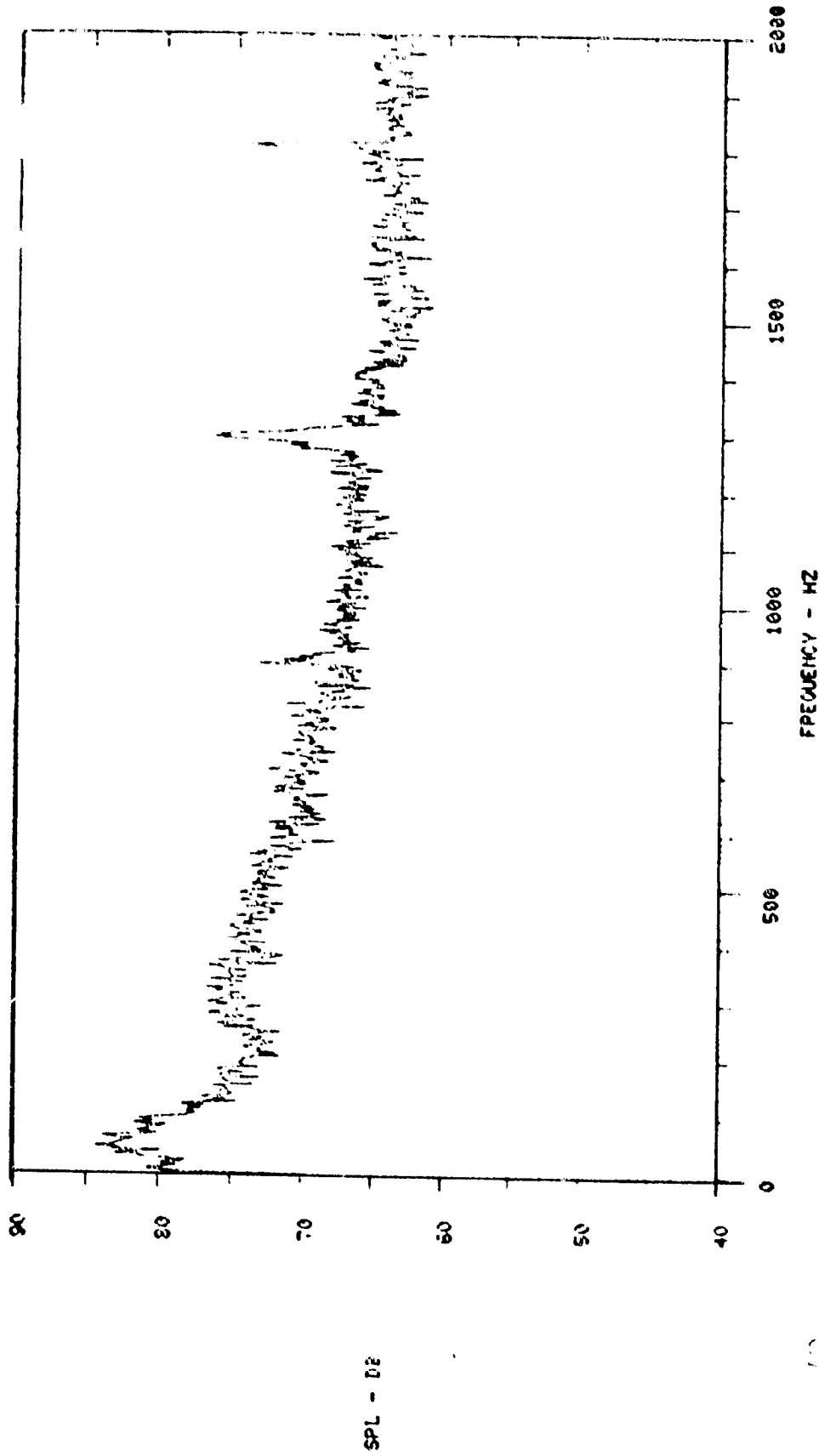
CF6-50 CORE NOISE PROGRAM



155
MIC ~~50~~ DEG
RDG NO 546
FAN SPEED 2103 RPM
OASPL 101.6 DB

PUN NO 40
X THRUST-22.51
G/S 1. / 0.00103
BS/S 4026 / 0198

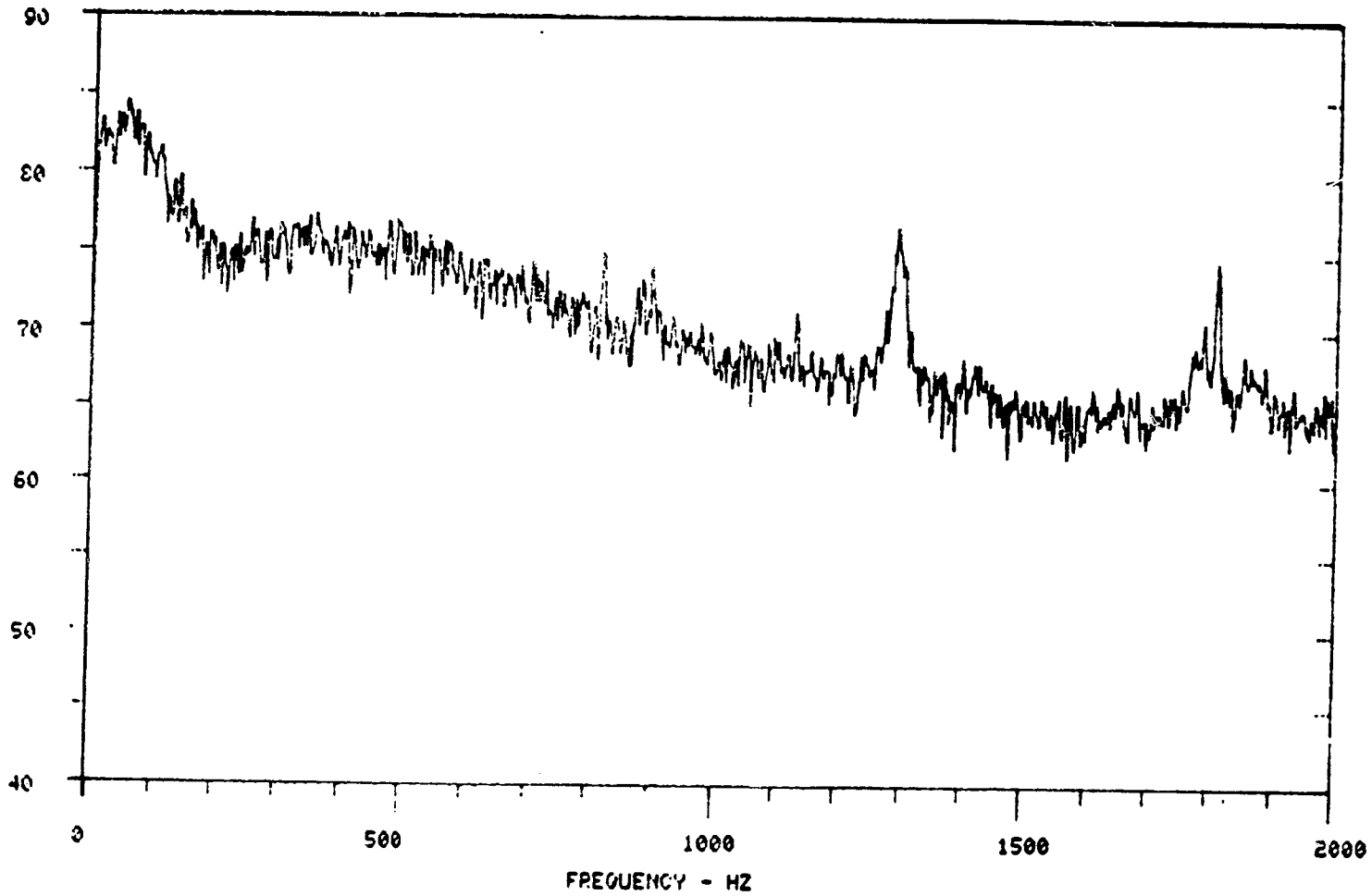
CF6-50 CORE NOISE PROGRAM



MIC 9297 DEG
RDG NO 546
FAN SPEED 2108 RPM
OASPL 102.3 DB

PUN NO 40
X THRUST-22.51
G/S 1.7 0.00103
BS/SR 4036/ 2102

CF6-50 CORE NOISE PROGRAM.



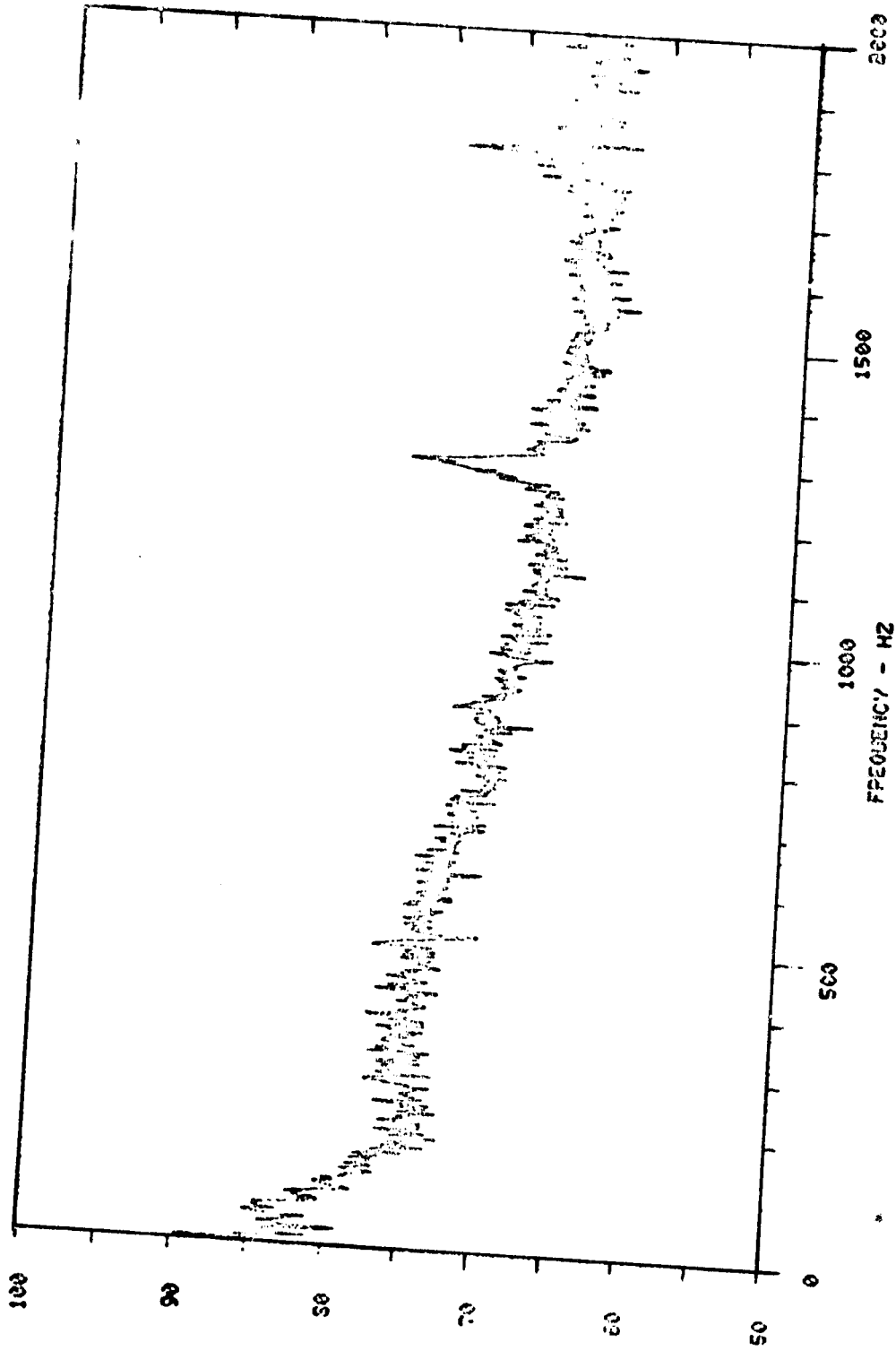
SPL - DE

ORIGINAL
PAGE IS
OF POOR
QUALITY

MIC 120 DEG
RDG NO 546
FAN SPEED 2108 RPM
OASPL 103.6 DB

PUN NO 40
X THRUST-22.51
G/S 1./ 0.00103
BS/SR 4096/ 8192

CF6-50 CORE NOISE PROGRAM.



SPL - DB

REV 130 150

LOG NO 546

MAX SPEED 2100 RPM

CASPL 103.9 DB

57

RUN NO 40
X THRUST-22.51

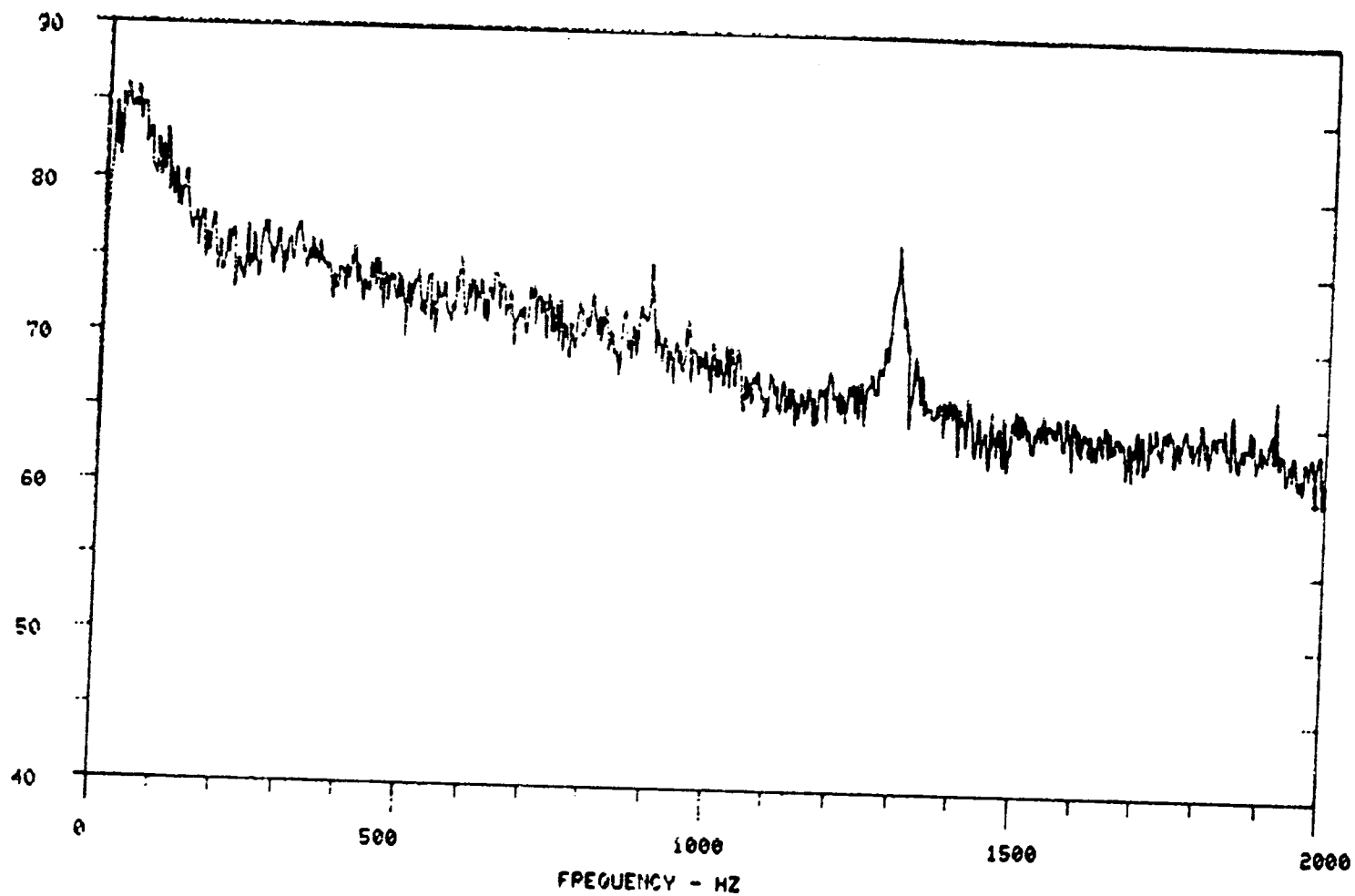
G/S 1.7 0.00103

EG/SR 4006/ 8100

58

CF6-50 CORE NOISE PROGRAM.

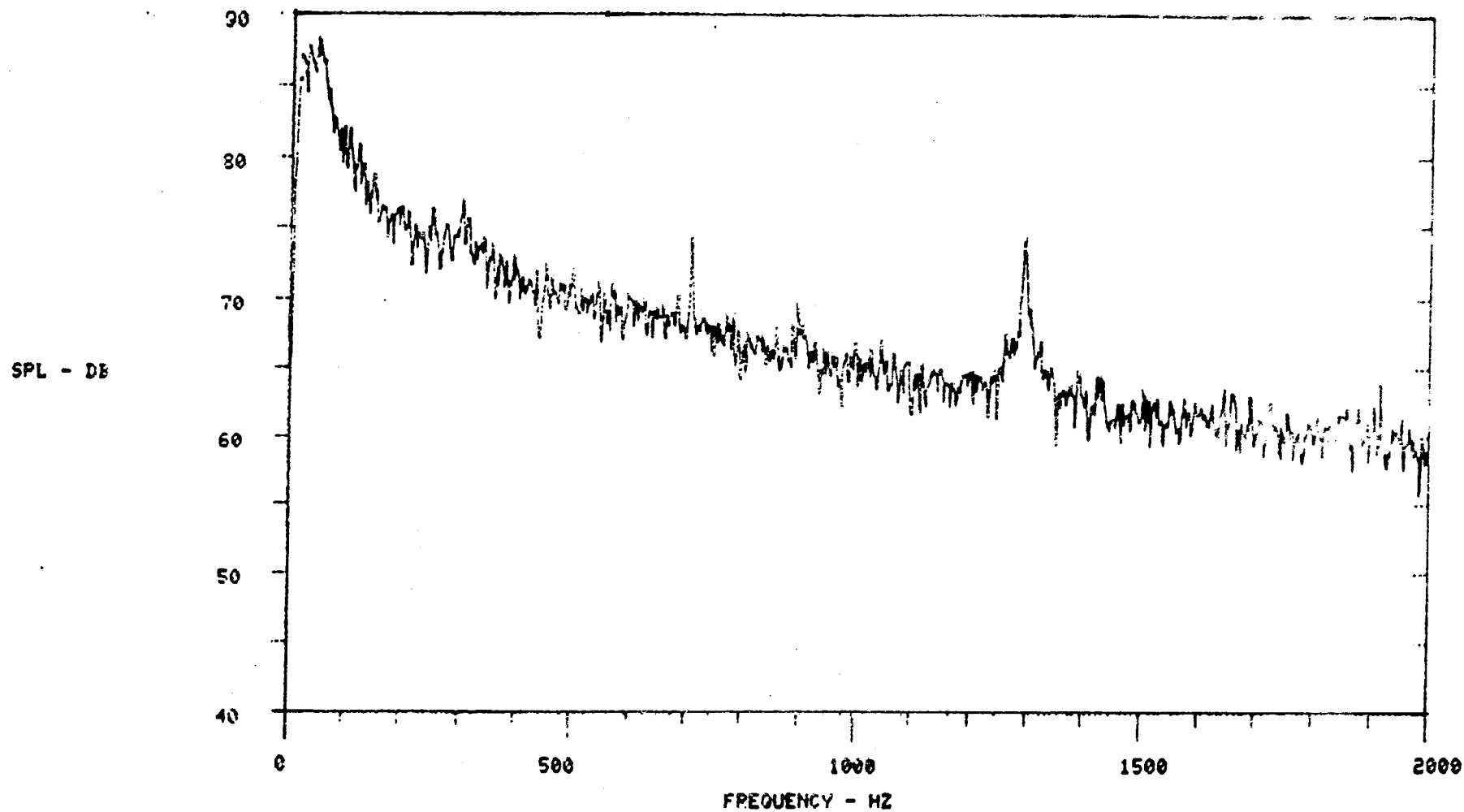
SPL - DB



MIC 140 DEG
RDG NO 546
FAN SPEED 2108 RPM
OASPL 103.7 DB

RUN NO 40
X THRUST=22.51
Q/S 1./ 0.00103
BS/SR 4096/ 8192

CF6-50 CORE NOISE PROGRAM.



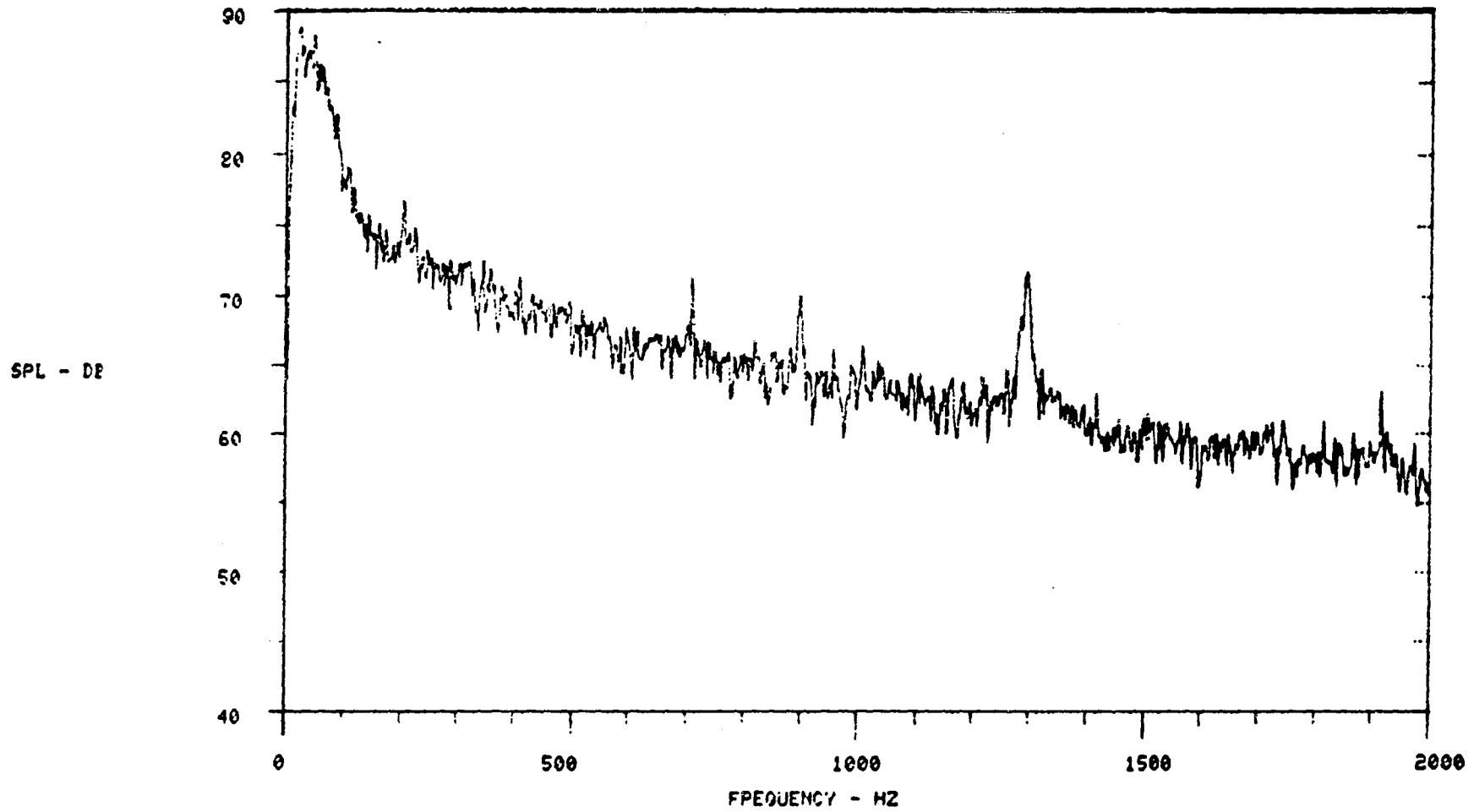
MIC 150 DEG
RDG NO 546
FAN SPEED 2108 RPM
OASPL 103.8 DB

59

RUN NO 40
X THRUST=22.51
Q/S 1./ 0.00103
BS/SR 4026/ 8192

60

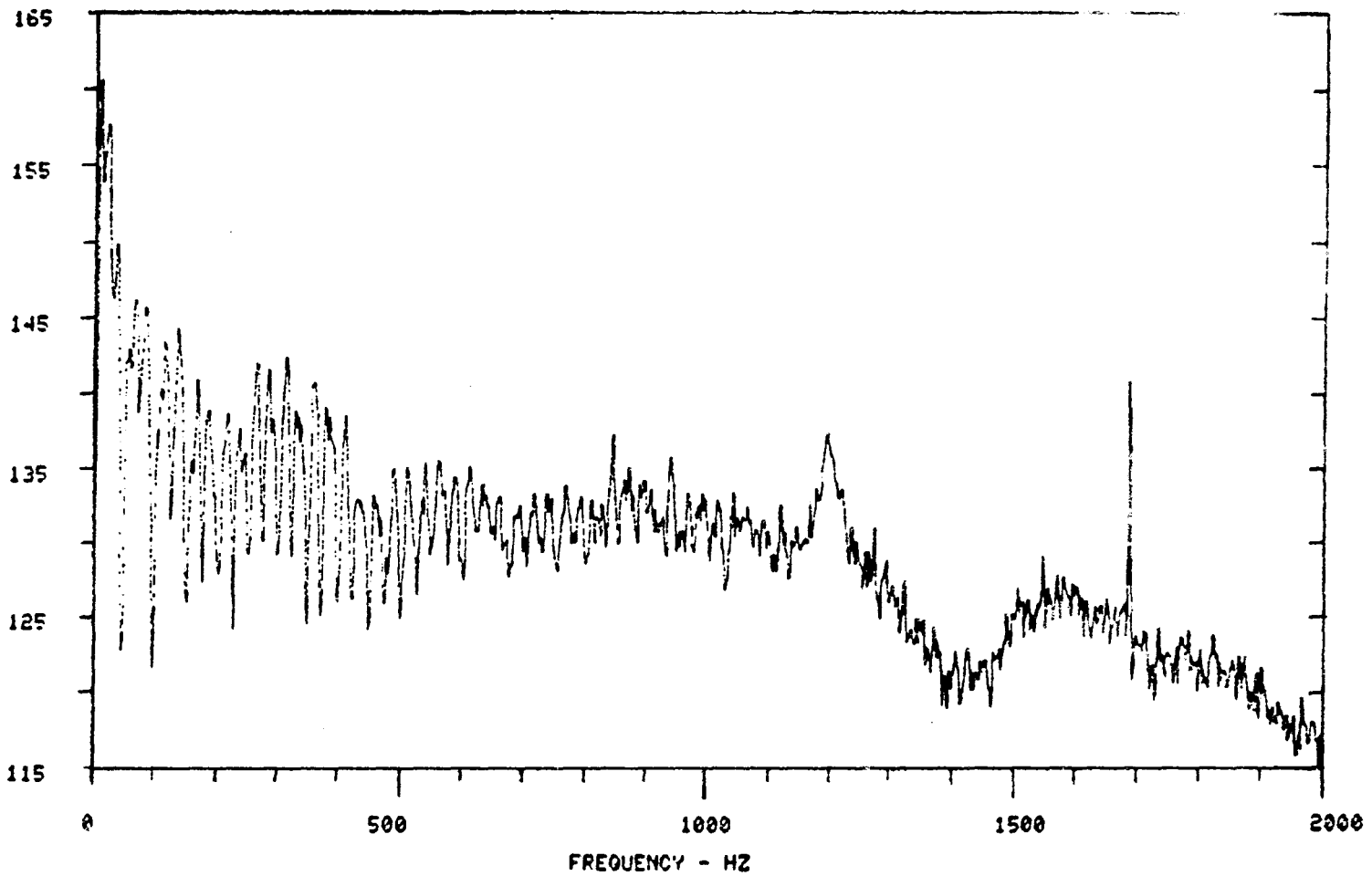
CF6-50 CORE NOISE PROGRAM.



MIC 160 DEG
RDG NO 546
FAN SPEED 2108 RPM
OASPL 103.1 DB

RUN NO 40
X THRUST-22.51
G/S 1. / 0.00193
BS/SR 4096 / 8192

CF6-50 CORE NOISE PROGRAM.



FPL - DB
ORIGINAL PAGE IS
OF POOR QUALITY

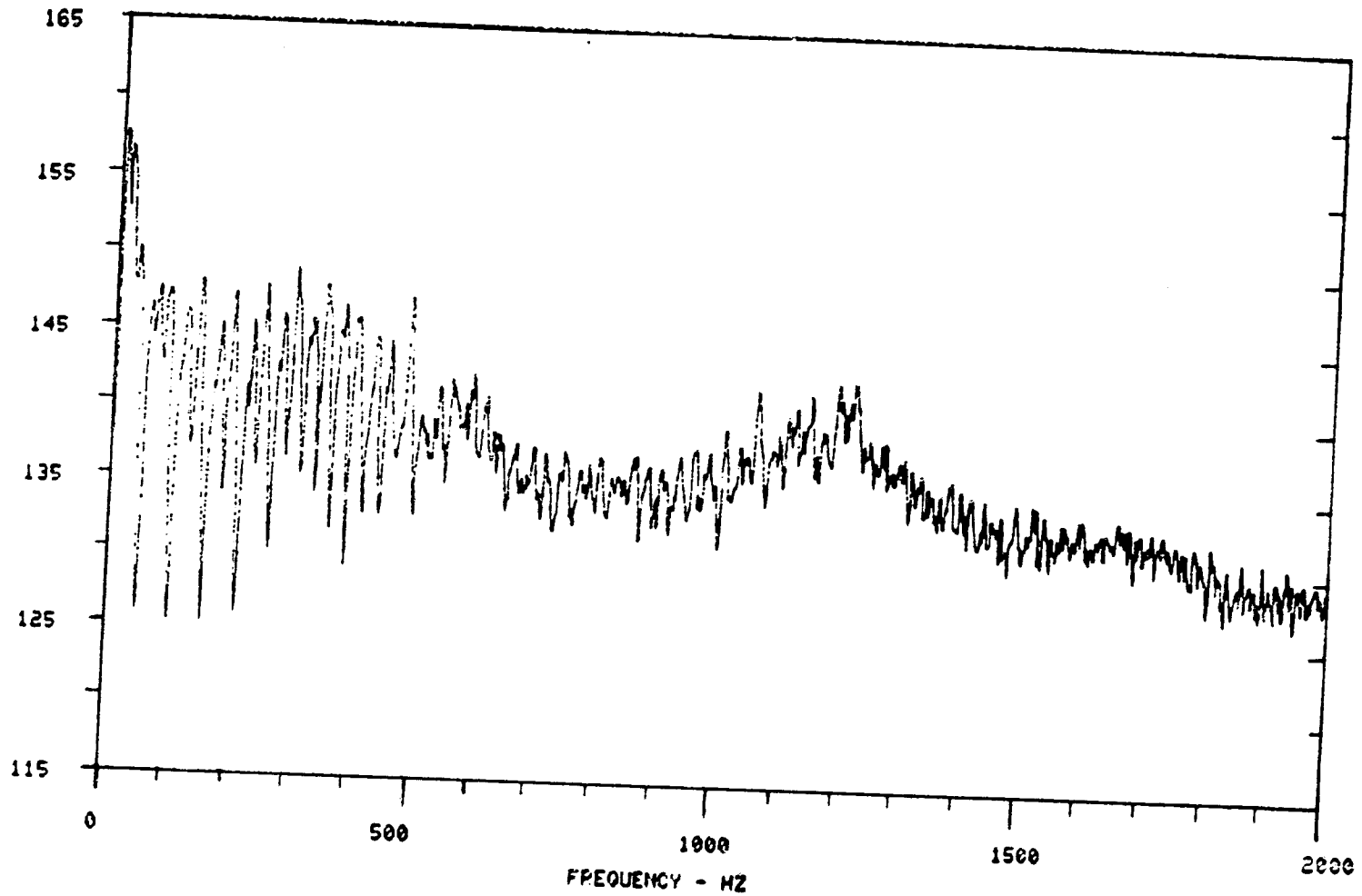
KULITE 18
RDC NO 551
FAN SPEED 2350 RPM
OAFPL 169.0 DB

61

RUN NO 2
X THRUST=30.83
G/S 1./ 2.00000
BS/SR 4095/ 8152

CF6-50 CORE NOISE PROGRAM.

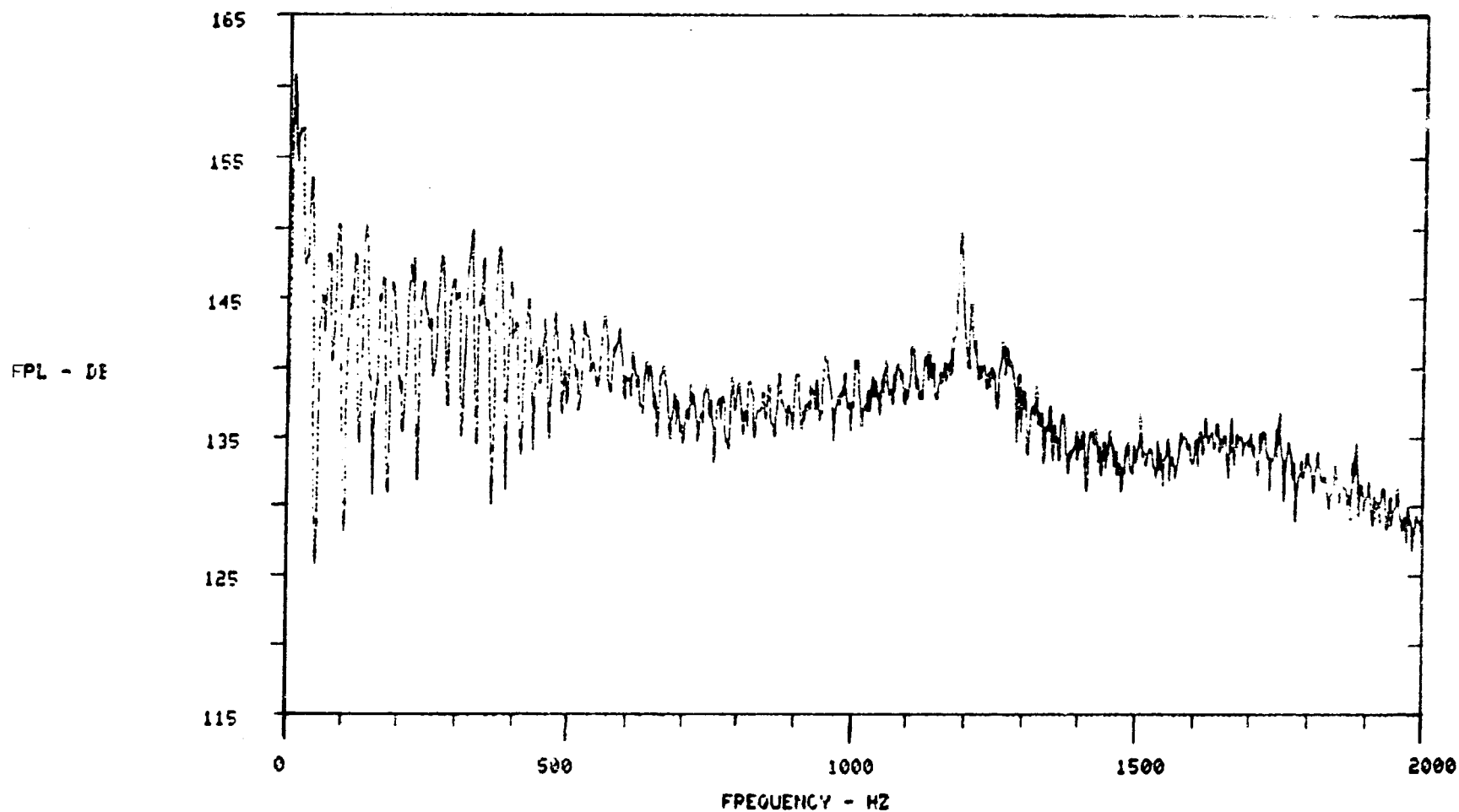
FPL - DB



KULITE 19
RDG NO 551
FAN SPEED 2350 RPM
OAFPL 170.7 DB

PUN NO 2
* THRUST-30.83
G/S 1./ 2.00000
BS/SR 4096/ 8192

CF6-50 CORE NOISE PROGRAM.

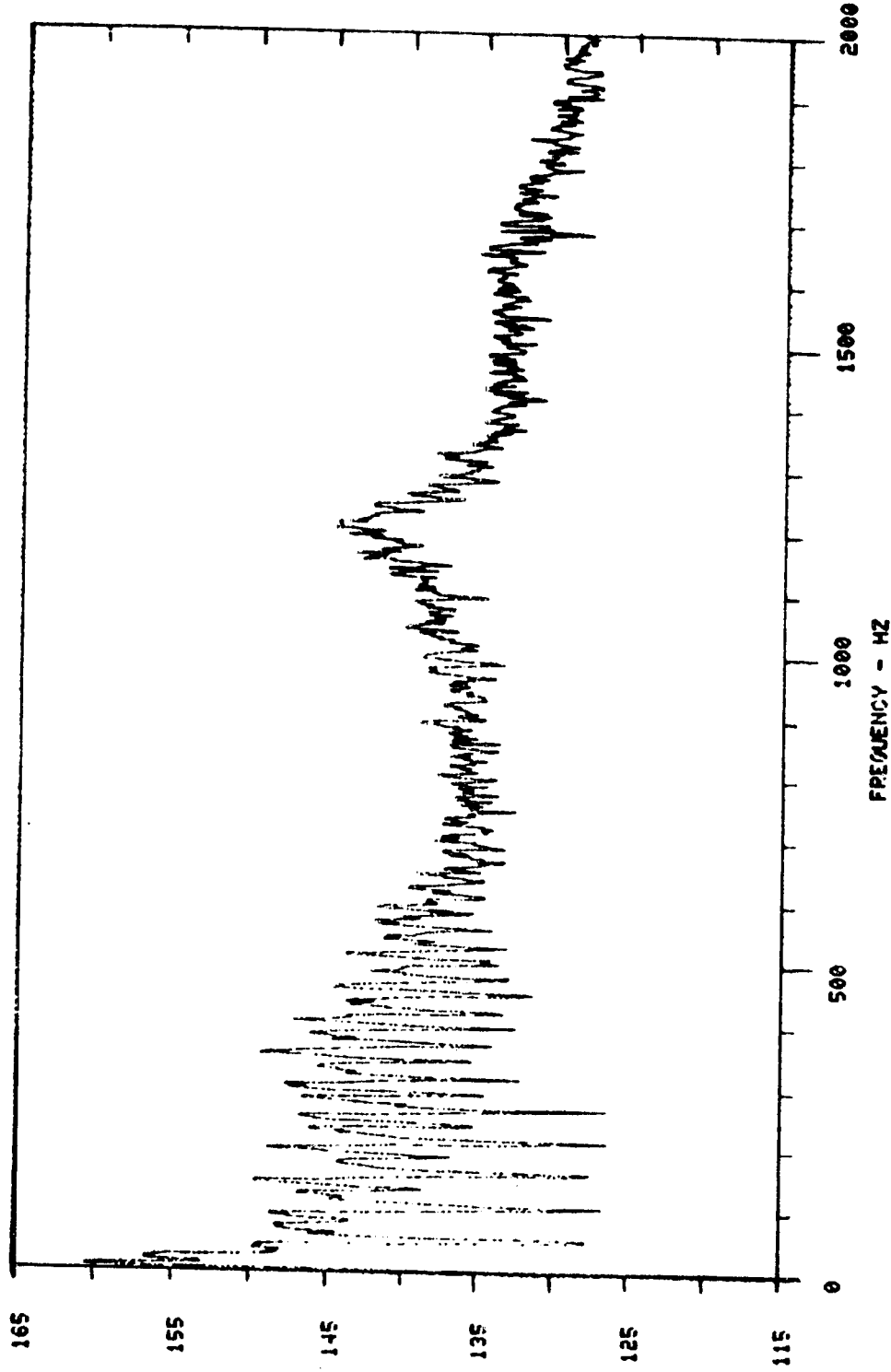


KULITE 20
RDG NO 551
FAN SPEED 2350 RPM
OAFPL 172.1 DB

8

RUN NO 2
X THRUST-30.83
G/S 1./ 2.00000
BS/SR 4096/ 8192

CF6-50 CORE NOISE PROGRAM.



64

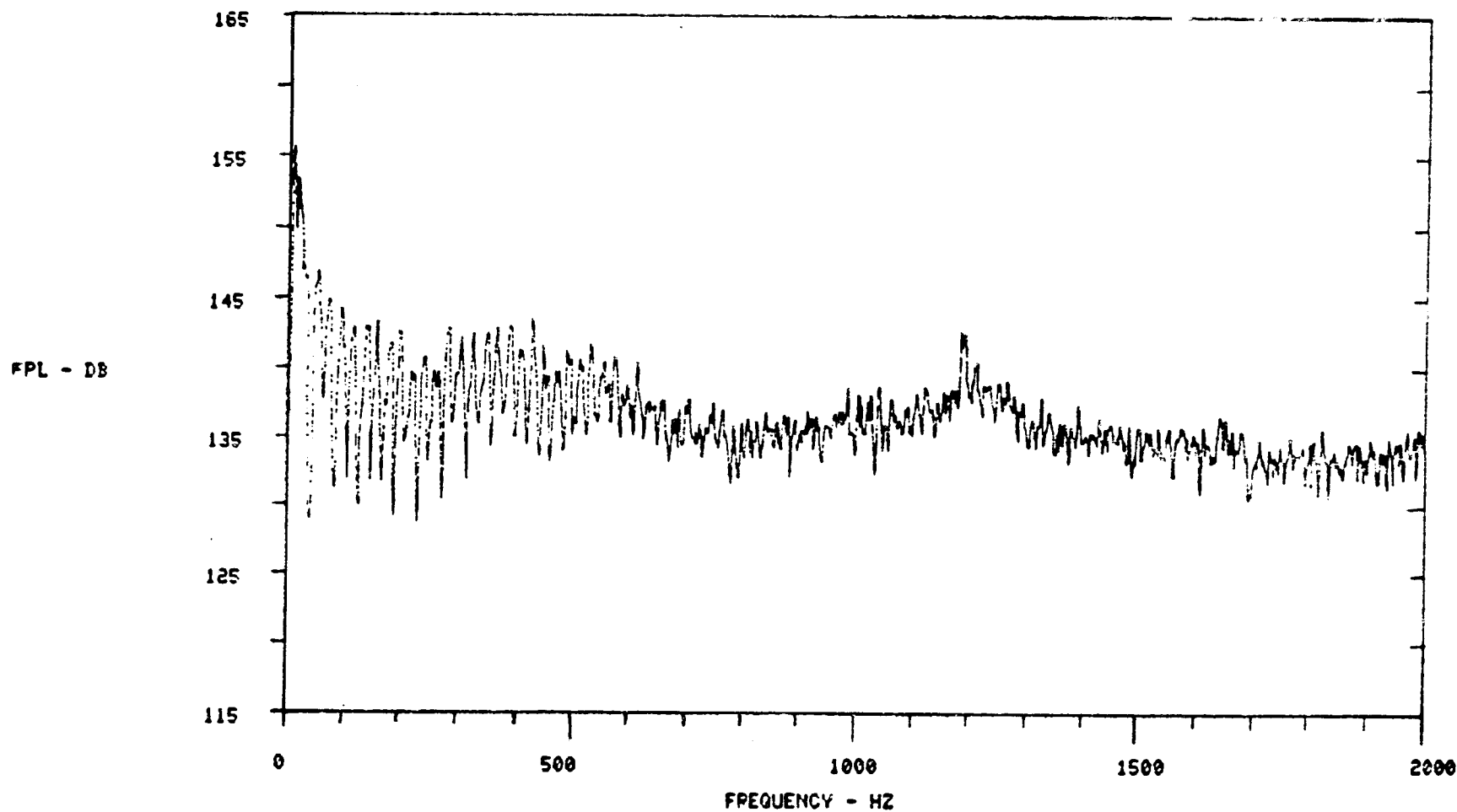
FPL - 06

ORIGINAL PAGE IS
OF POOR QUALITY

KULITE 21
RDG NO 551
FAN SPEED 2350 RPM
CAFPL 171.4 DB

RUN NO 2
X THRUST-30.83
G/S 1.7 2.00000
SS/SR 4086/ 8192

CF6-50 CORE NOISE PROGRAM.



KULITE 22
RDG NO 551
FAN SPEED 2350 RPM
OAFPL 168.6 DB

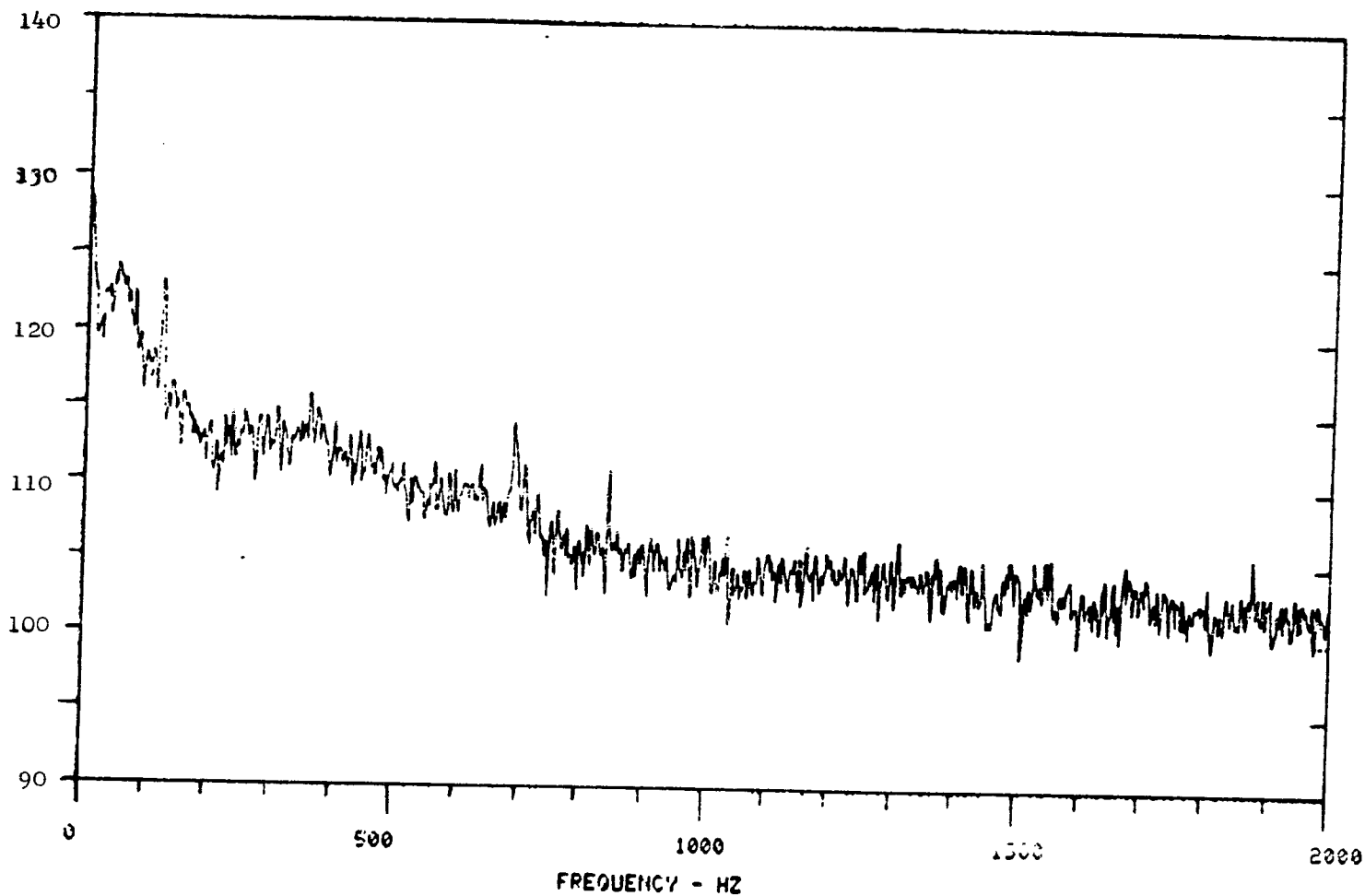
65

RUN NO 2
% THRUST-30.83
Q/S 1. / 2.0000
BS/SR 4096 / 8192

99

CF6-50 CORE NOISE PROGRAM

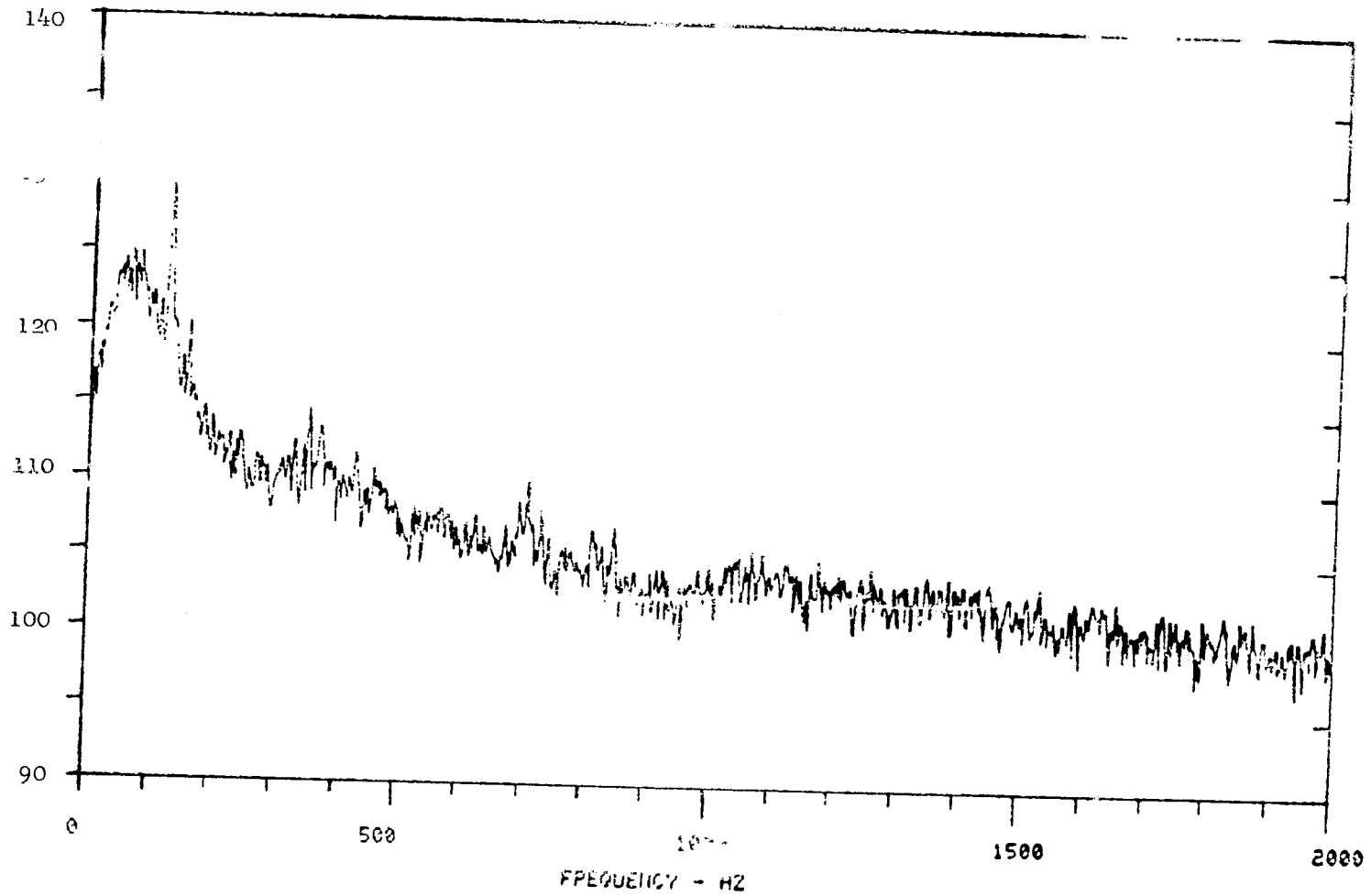
FPL - DE



KULITE 24
RDG NO 551
FAN SPEED 2350 RPM
OAFPL 142.1

RUN NO 2
* THPUST-30.83
G/S 1. / 2.00000
BS/SR 4096 / 8192

CF6-50 CORE NOISE PROGRAM



ORIGINAL PAGE IS
OF POOR QUALITY

KULITE 26

REG NO 01

FAN SPEED 2350 RPM

Q2501 112 0

67

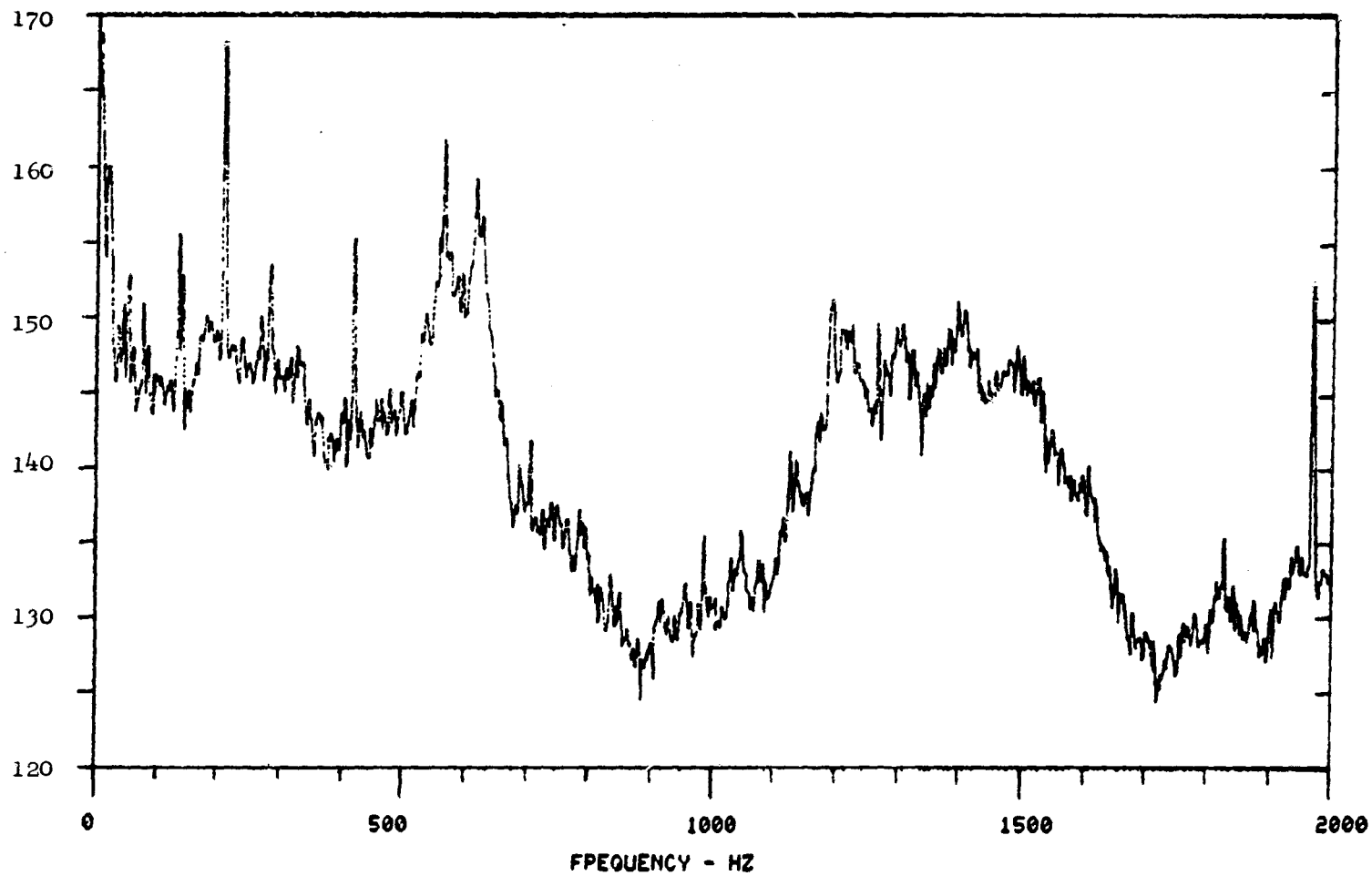
X THRUST-30.83

G/S 1. / 1.00000

BS/SR 4896 / 8192

CF6-50 CORE NOISE PROGRAM

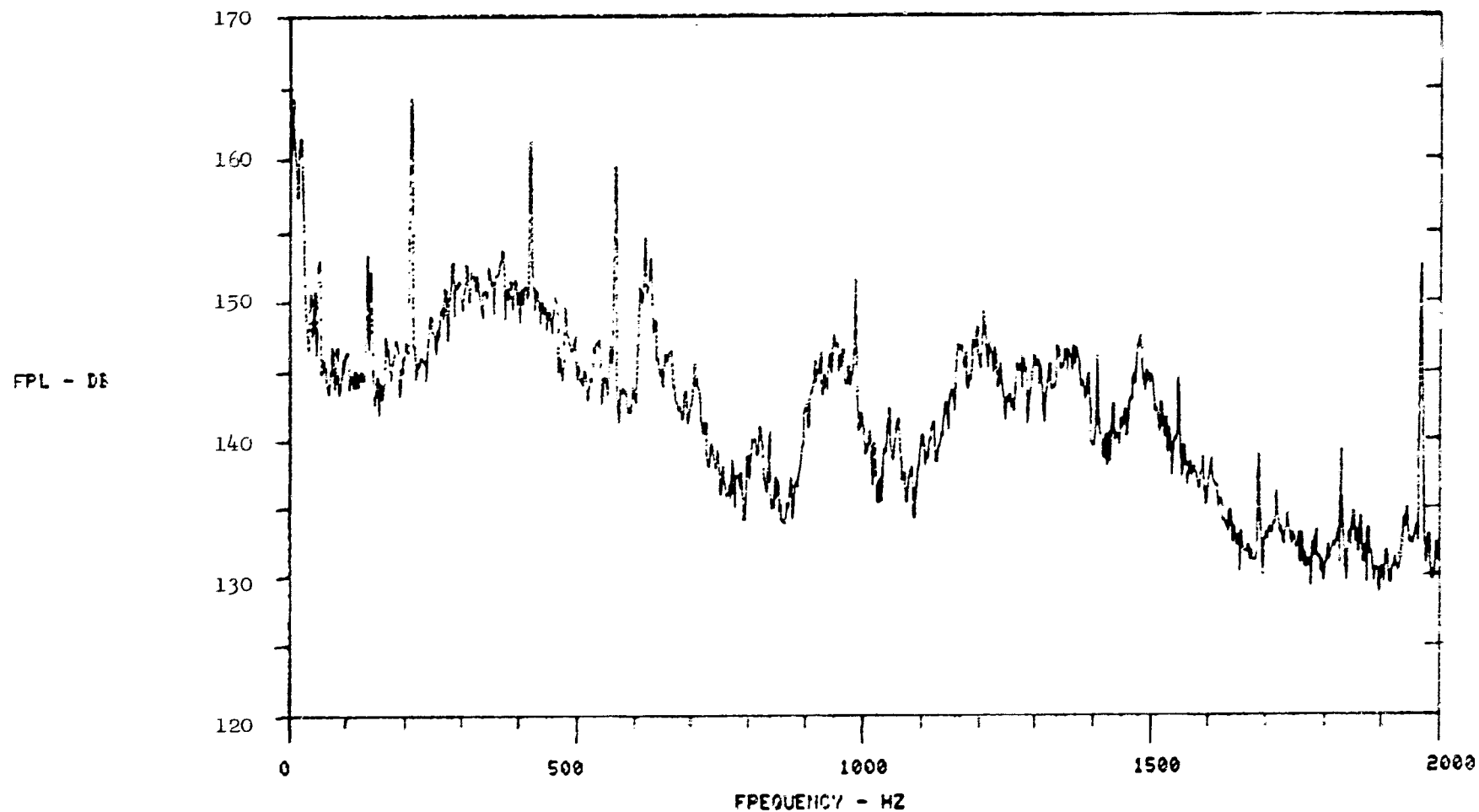
FPL - DE



KULITE 23
RDG NO 551
FAN SPEED 2350 RPM
OAFPL 179.3 DB

RUN NO 2
x THRUST=30.83
G/S 1. / 0.50000
BS/SR 4096 / 8192

CF6-50 CORE NOISE PROGRAM



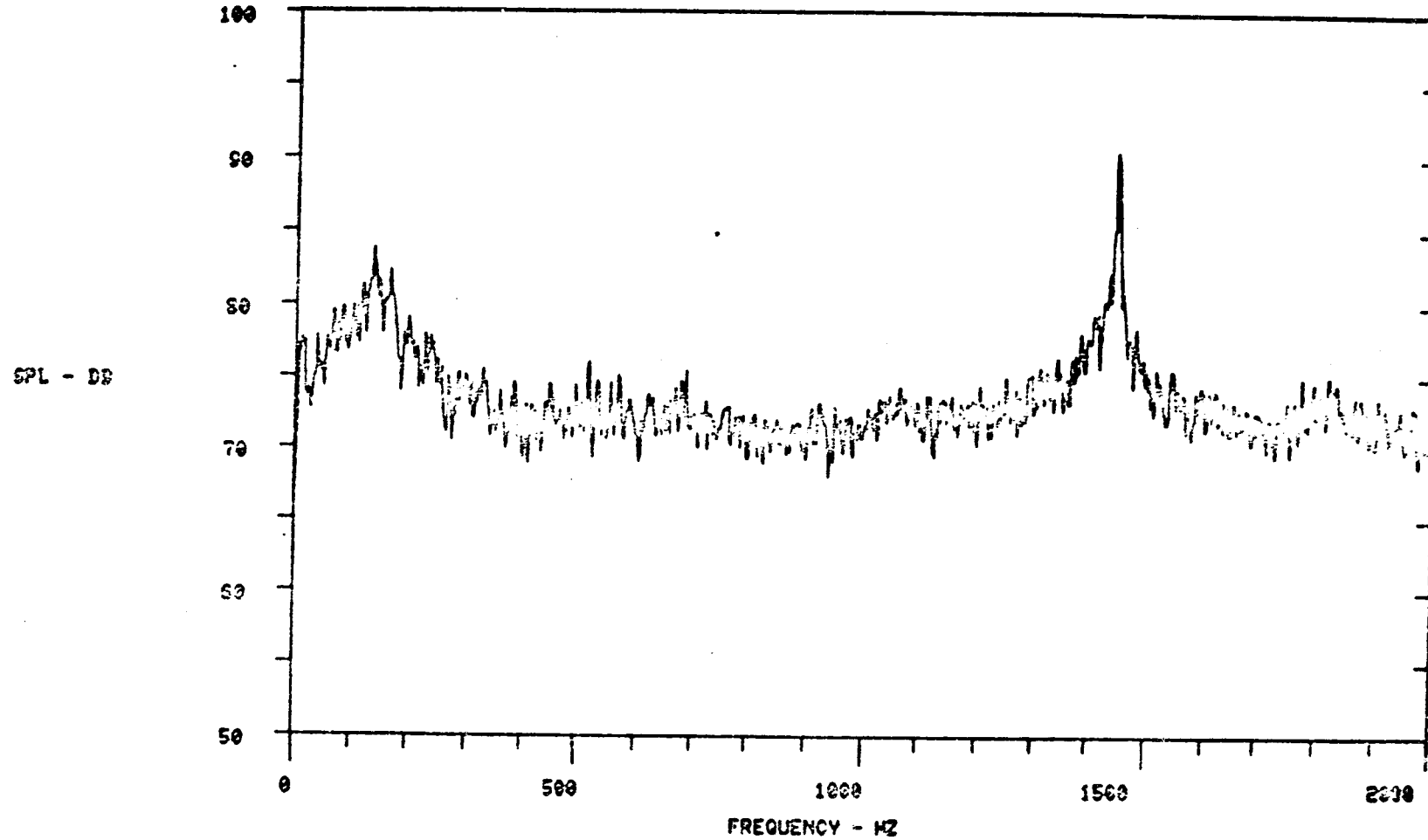
KULITE 25
RDG NO 551
FAN SPEED 2350 RPM
CAFPL 177.3 DB

69

RUN NO 2
X THRUST=30.83
G/S 1. / 0.50000
BS/SR 4096 / 8192

70

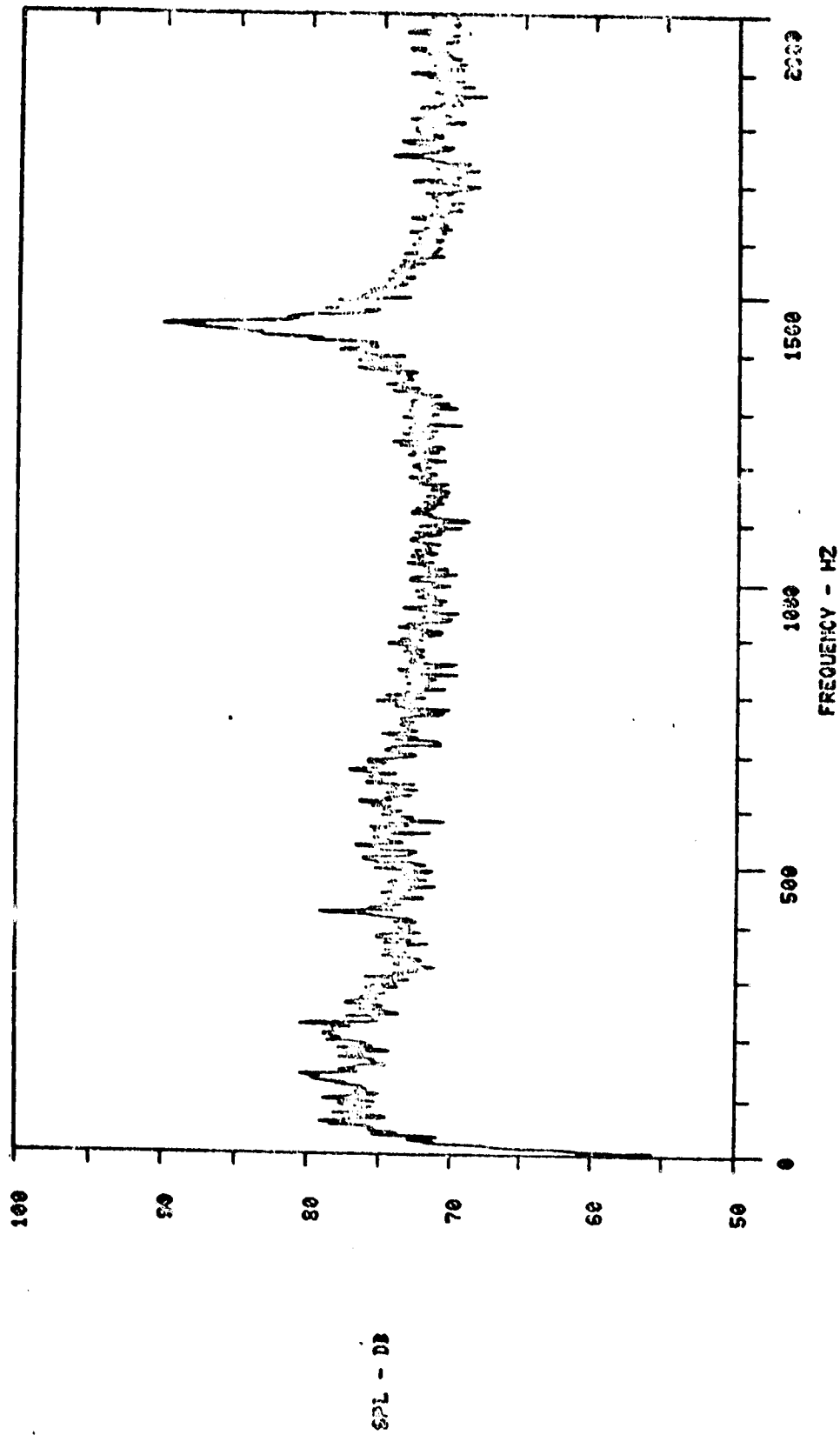
CF6-50 CORE NOISE PROGRAM.



MIC 10 DEG
RDC NO 551
FAN SPEED 2350 RPM
CASPL 104.9 DB

RUN NO 2
% THRUST=30.83
Q/S 1./ 0.03103
DS/SR 4098/ 8122

CF6-50 CORE NOISE PROGRAM.

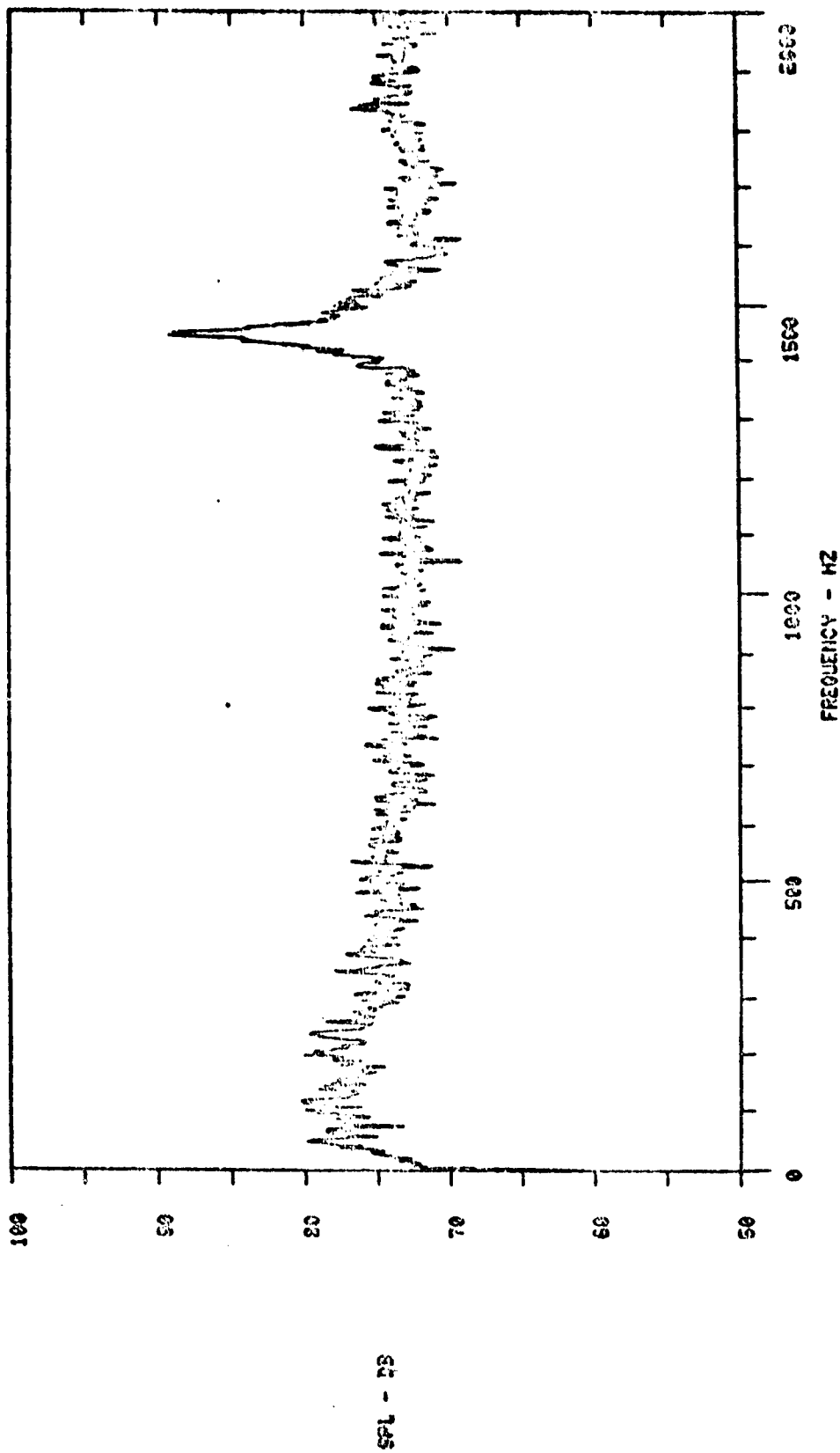


MIC 30 DEG
RDG NO 551
FAN SPEED 2350 RPM
OASPL 104.8 DB

RUN NO 2
X THRUST=39.83
Q/S 1.7 0.00103
R/SR 4700/ 8152

CF6-50 CORE NOISE PROGRAM.

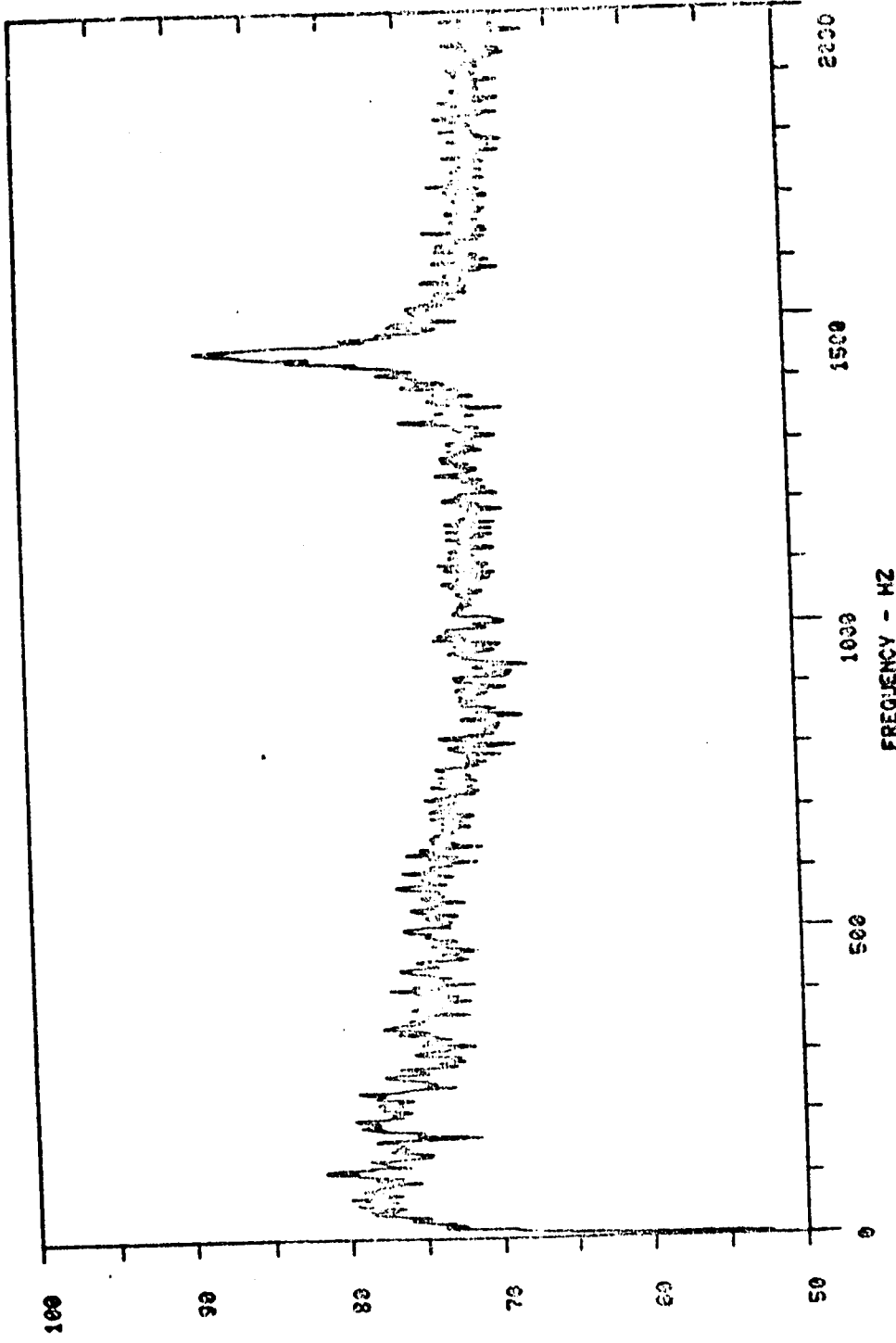
72



NIC 40 DEG
RDG NO 551
FAN SPEED 2300 RPM
CASPL 105.4 DB

RUN NO 2
% THRUST=33.63
0/8 1./ 6.63103
89/8R 4088/ 8152

CF6-50 CORE NOISE PROGRAM.



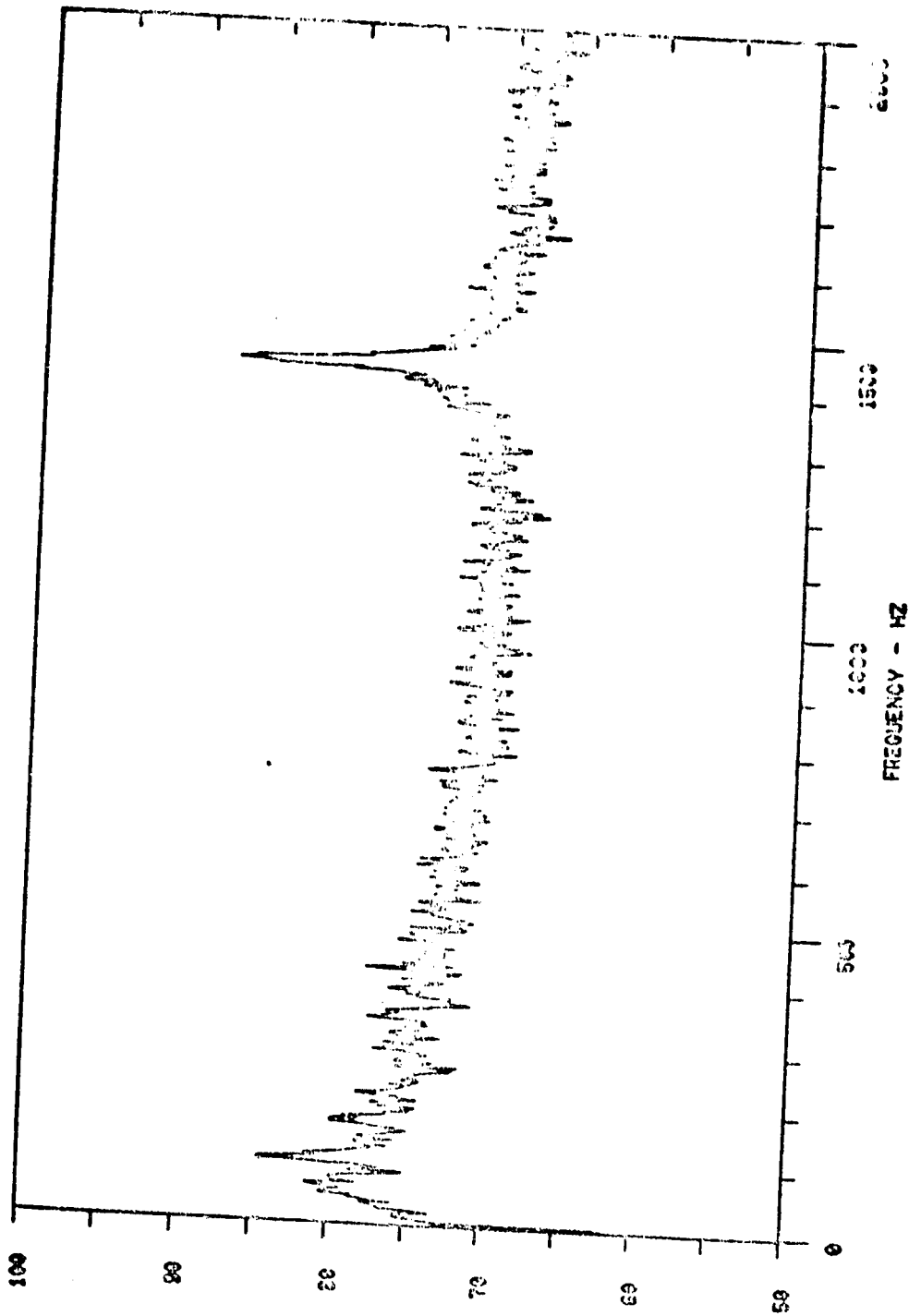
ORIGINAL PAGE IS
OF POOR QUALITY

SPL - DB

RUN NO 2
* THRUST=39.83
Q/S 1.7 6.00183
BS/GR 4023/ 8163

NIC 50 DEG
R06 WD 851
FAN SPEED 2550 RPM
CIRCL 104.3 D3

CF6-50 CORE NOISE PROGRAM.



SPL - DB

MIC 60 DEG

RUN NO 551

FAN SPEED 2000 RPM

CASPL 103.9 DB

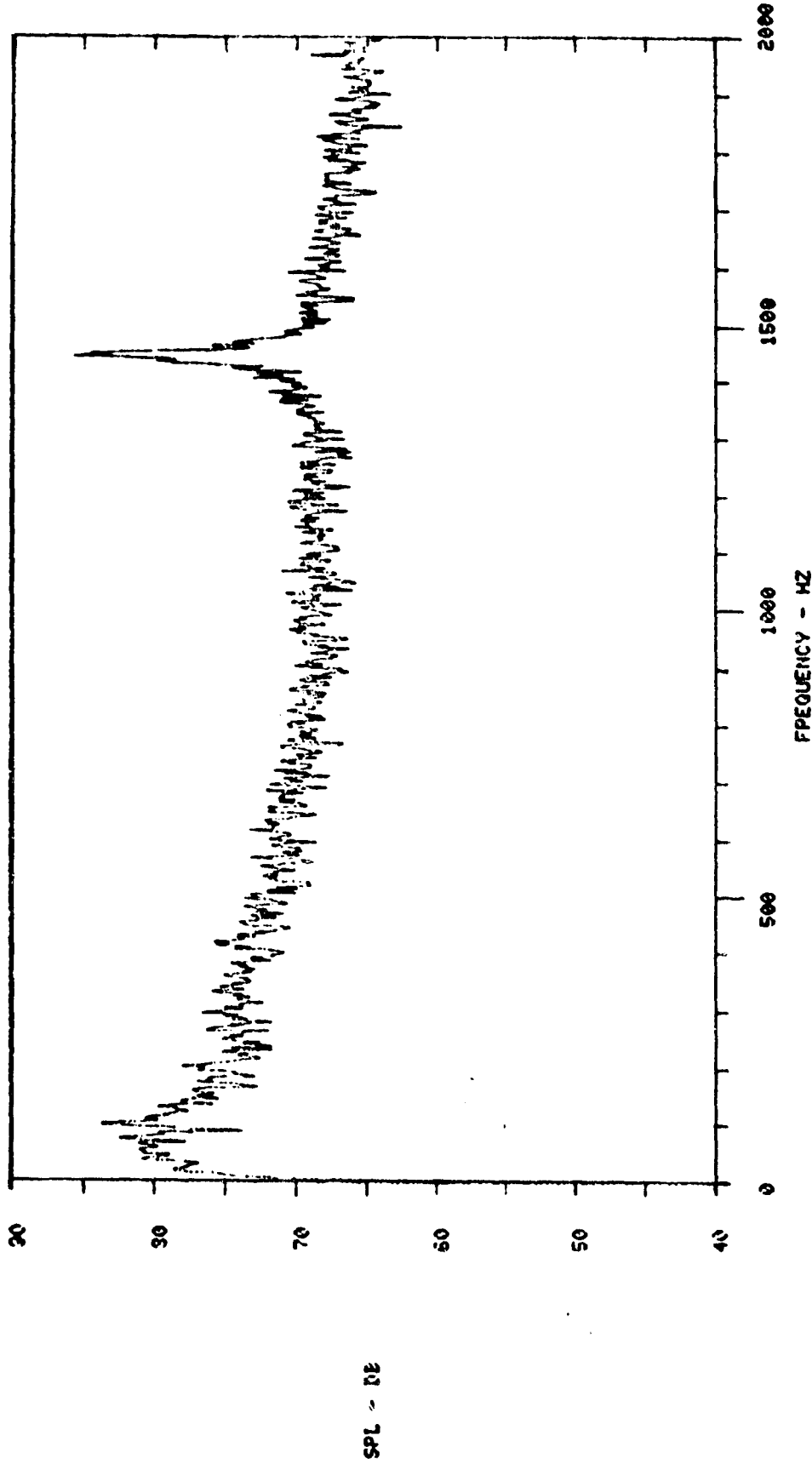
RUN NO 2

* THRUST-39.63

0/S 1.7 0.03103

13/52 4998/ 8152

CF6-50 CORE NOISE PROGRAM



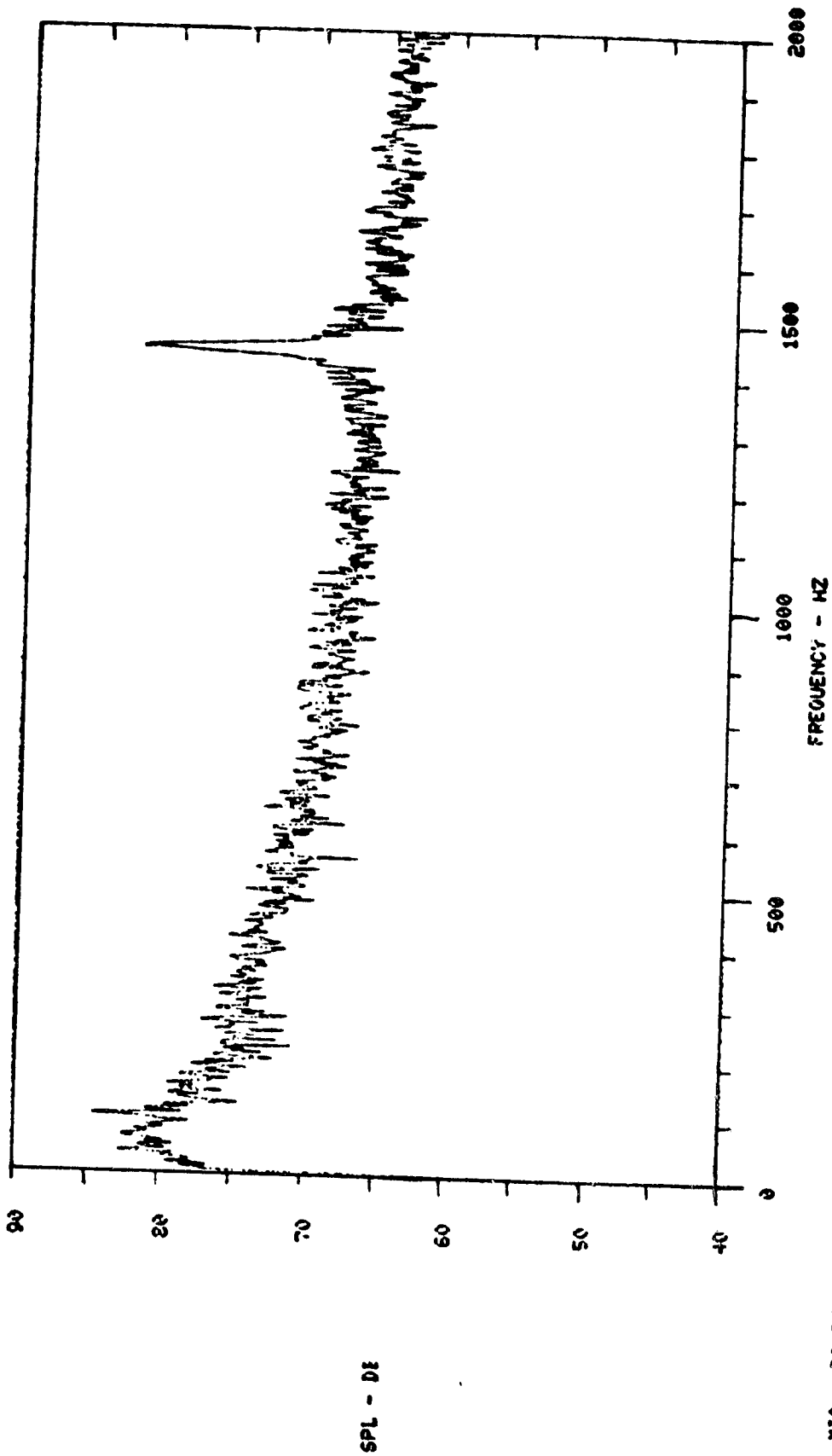
MIC 70 DEG
RDG NO 551
FAN SPEED 2350 RPM
OASPL 102.7 DB

75

PUN NO 2
x THRUST=30.83
G/S 1.1 0.00103
BS/SR 4096/ 8192

CF6-50 CORE NOISE PROGRAM

76

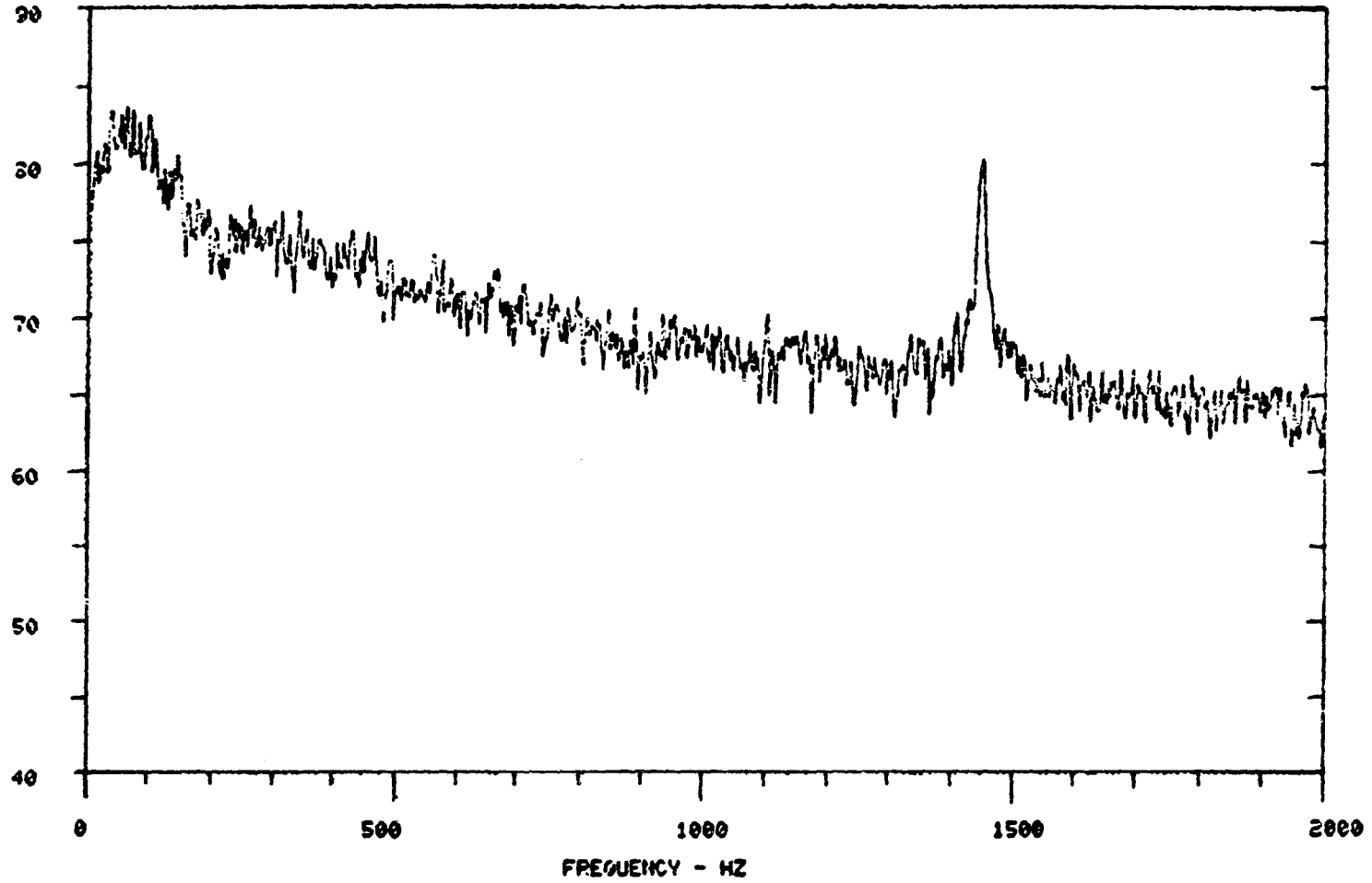


MIC 80 DEG
RDG NO 551
FAN SPEED 2350 RPM
OASPL 102.3 DB

PUN NO 2
X THRUST=30.83
G/S 1.7 0.00102
BS/SR 4026/ 8192

CF6-50 CORE NOISE PROGRAM

SPL - DB



ORIGINAL PAGE IS
OF POOR QUALITY

MIC 90 DEG
RDG NO 551
FAN SPEED 2350 RPM
OASPL 102.9 DB

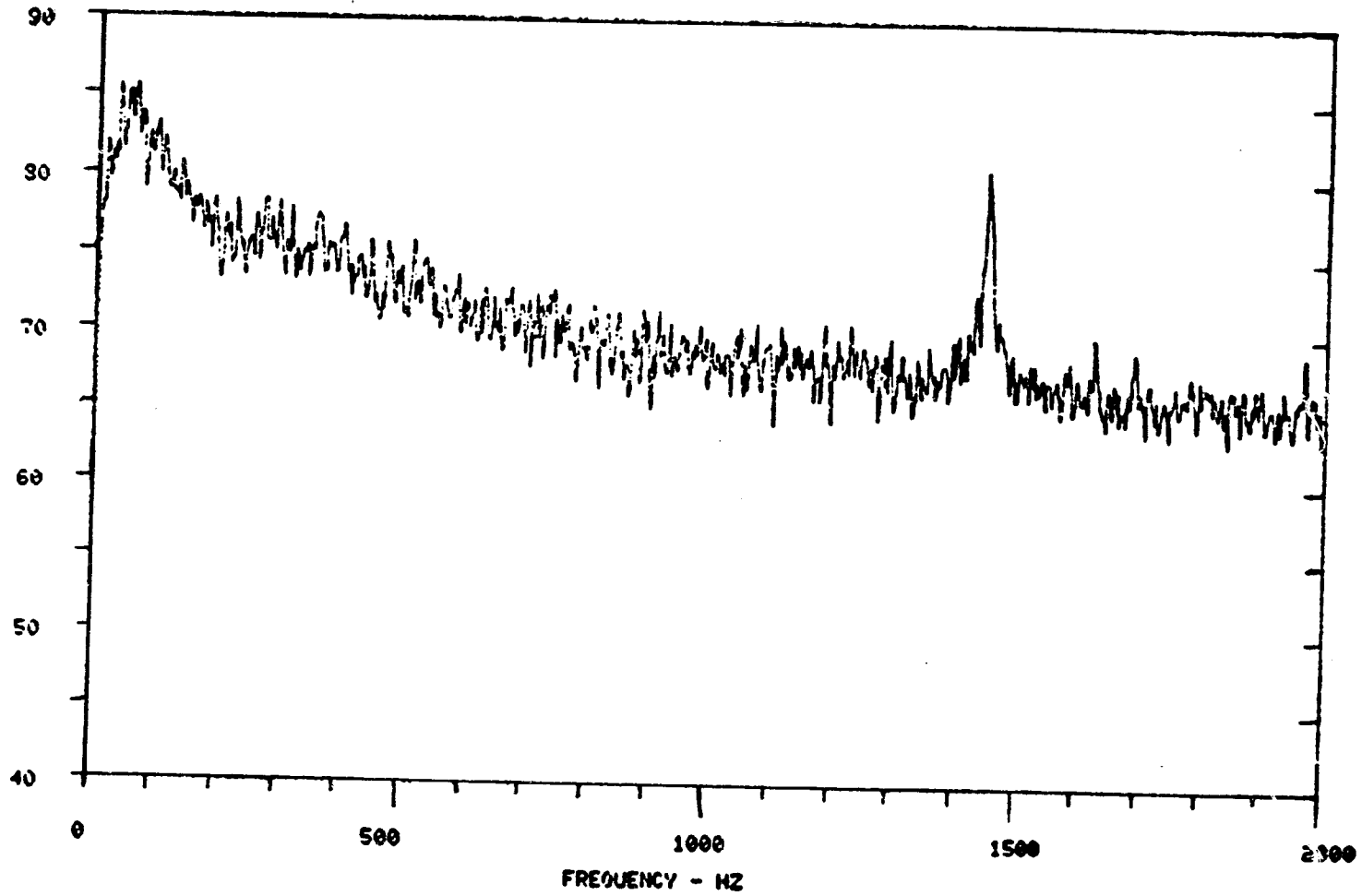
77

RUN NO 2
X THRUST=30.83
G/S 1. / 0.00103
BS/SR 4096/ 8192

78

CF6-50 CORE NOISE PROGRAM

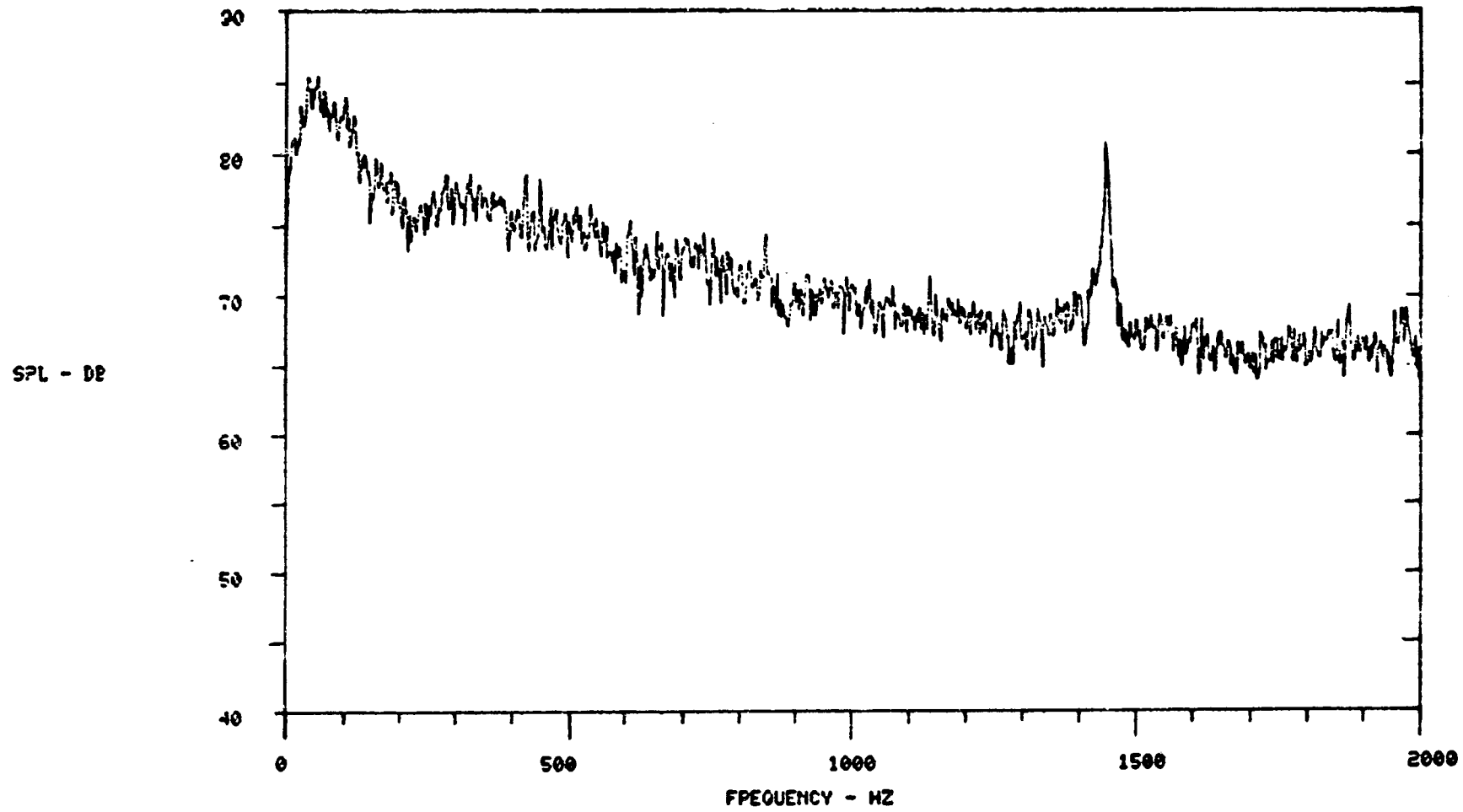
SPL - DB



NIC 100 DEG
RDG NO 551
FAN SPEED 2350 RPM
OASPL 103.6 DB

RUN NO 2
% THRUST=30.83
O/S 1. / 0.00103
BS/SR 4036/ 8192

CF6-50 CORE NOISE PROGRAM



MIC 110 DEG
RDG NO 551
FAN SPEED 2350 RPM
OASPL 104.4 DB

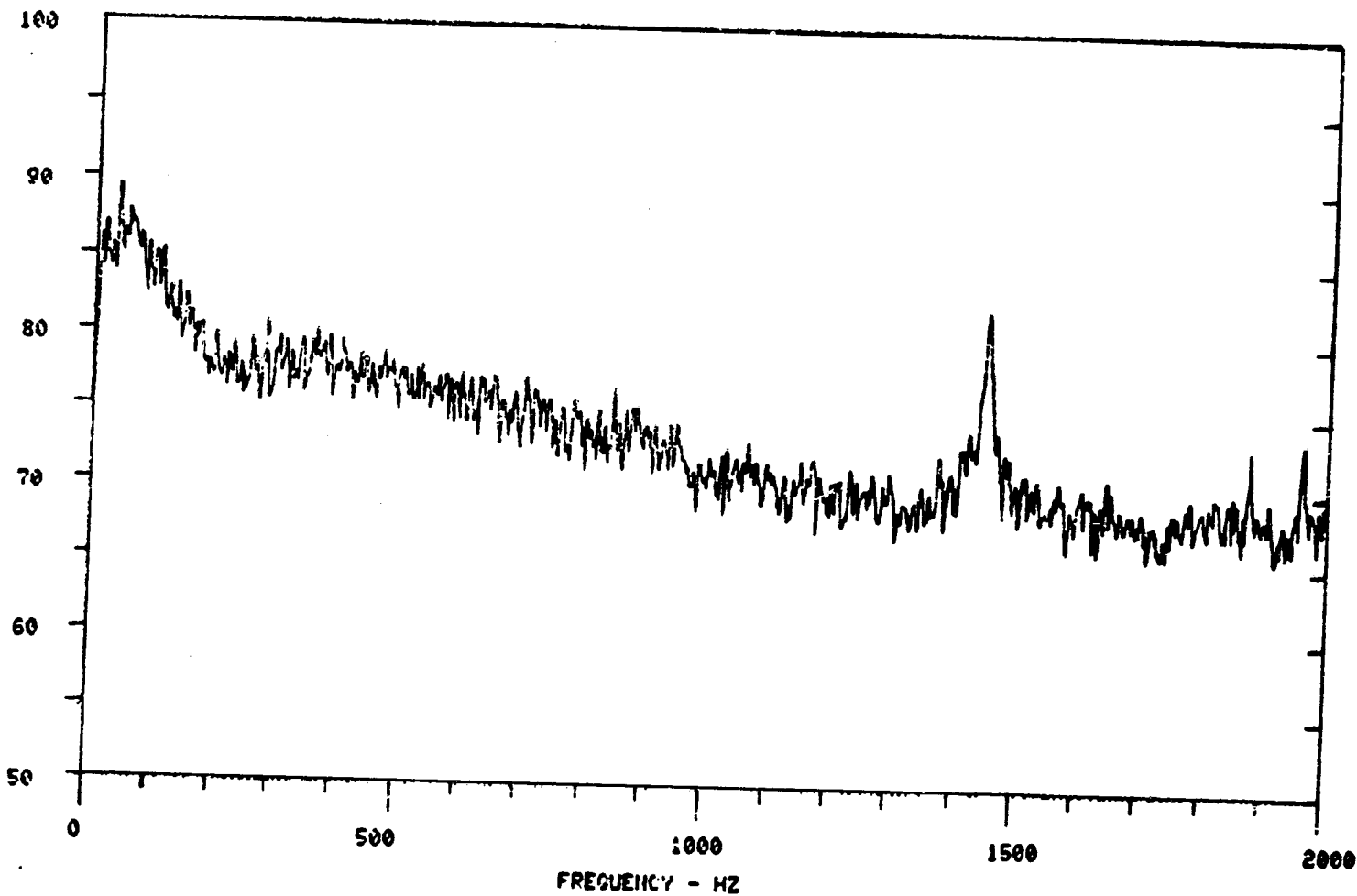
79

RUN NO 3
X THRUST=30.83
G/S 1. / 0.00103
BS/SR 4096 / 8192

08

CF6-50 CORE NOISE PROGRAM.

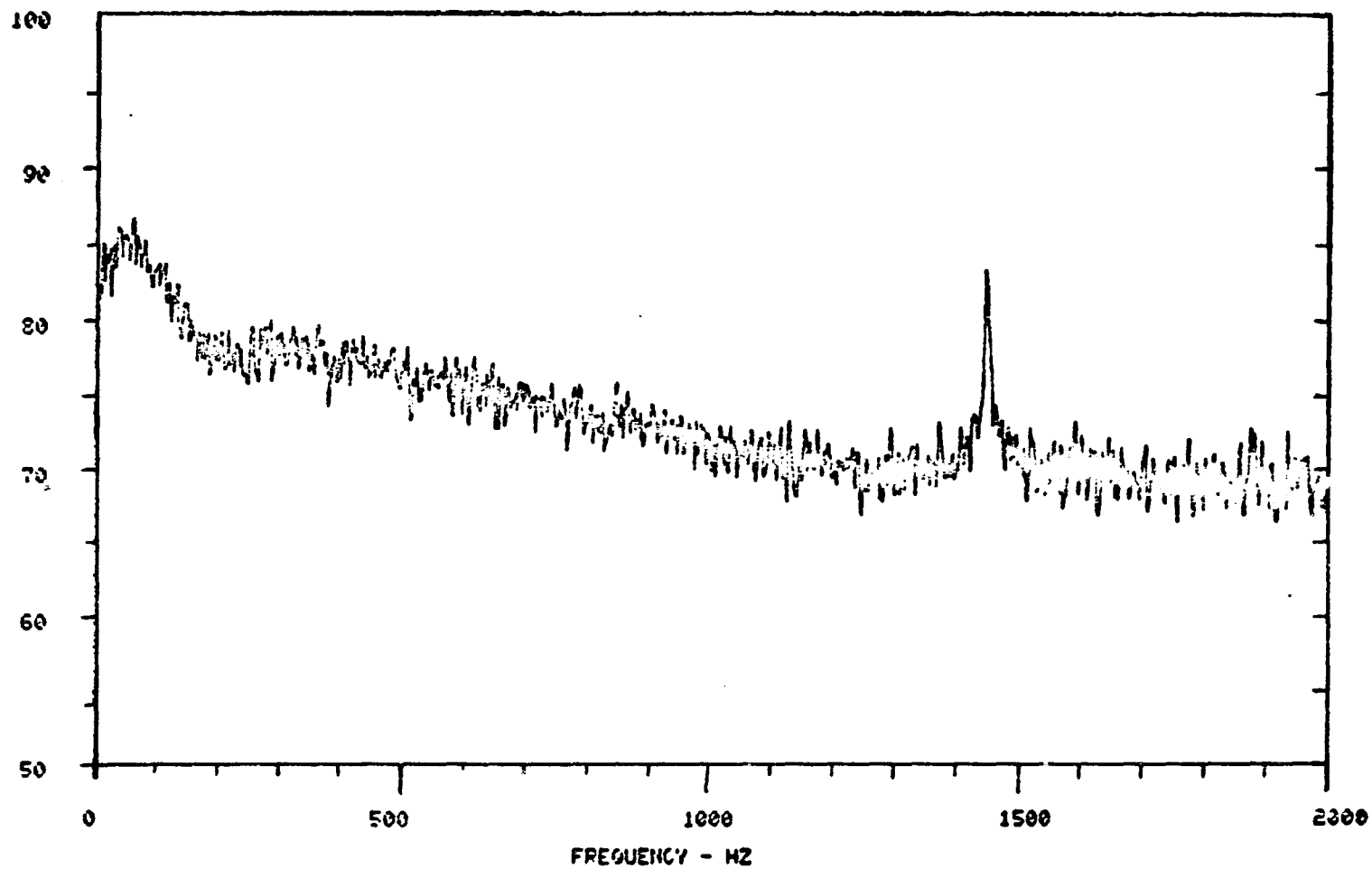
SPL - DB



MIC 120 DEG
RDG NO 551
FAN SPEED 2350 RPM
CASPL 106.6 DB

RUN NO 2
* THRUST-30.83
G/S 1./ 0.00103
BS/SR 4096/ 8192

SPL - DB

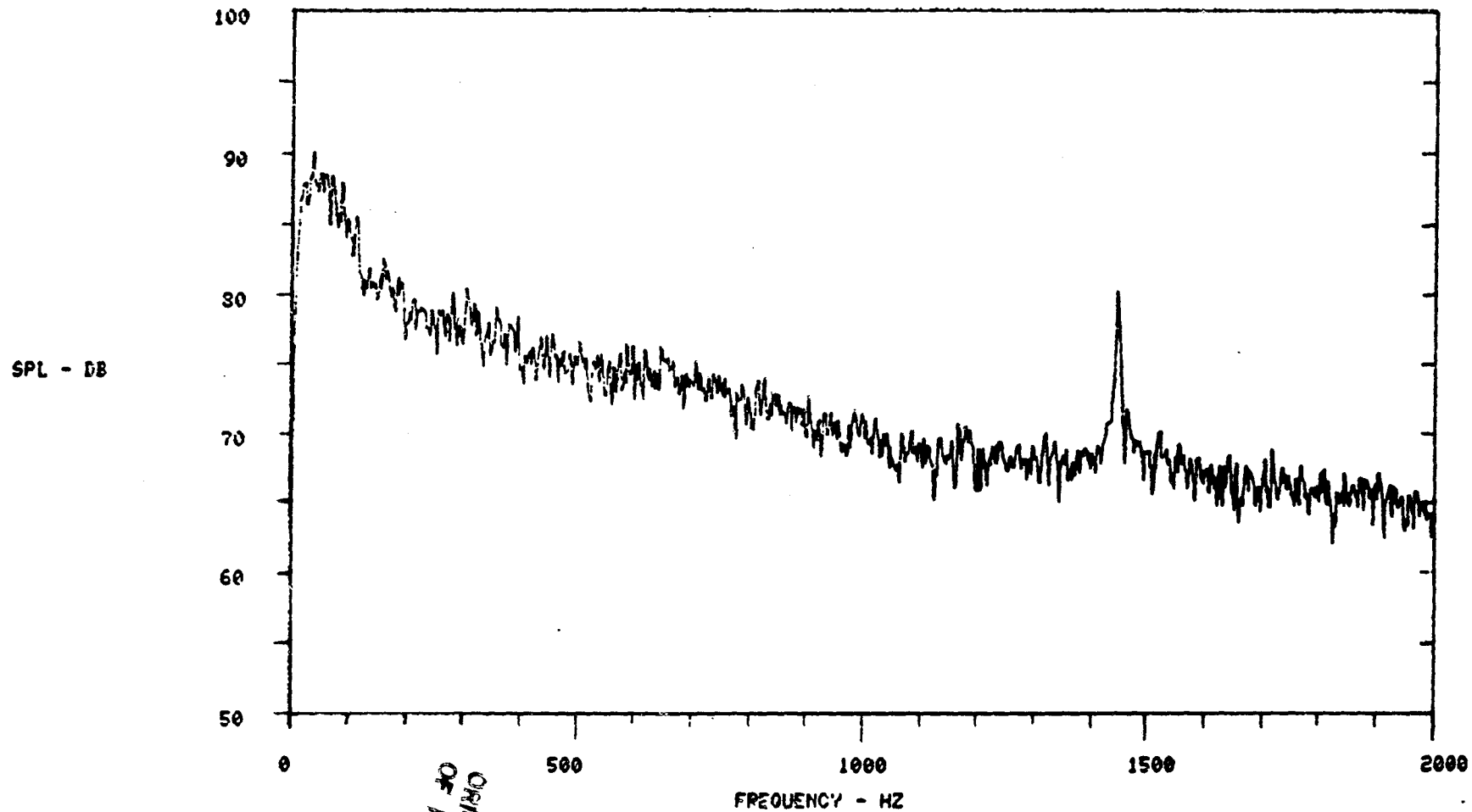


MIC 130 DEG
RDG NO 551
FAN SPEED 2050 RPM
CASPL 106.2 DB

18

RUN NO 2
* THRUST-30.23
G/S 1. / 0.00103
BS/SR 4096 / 8192

CF6-50 CORE NOISE PROGRAM.

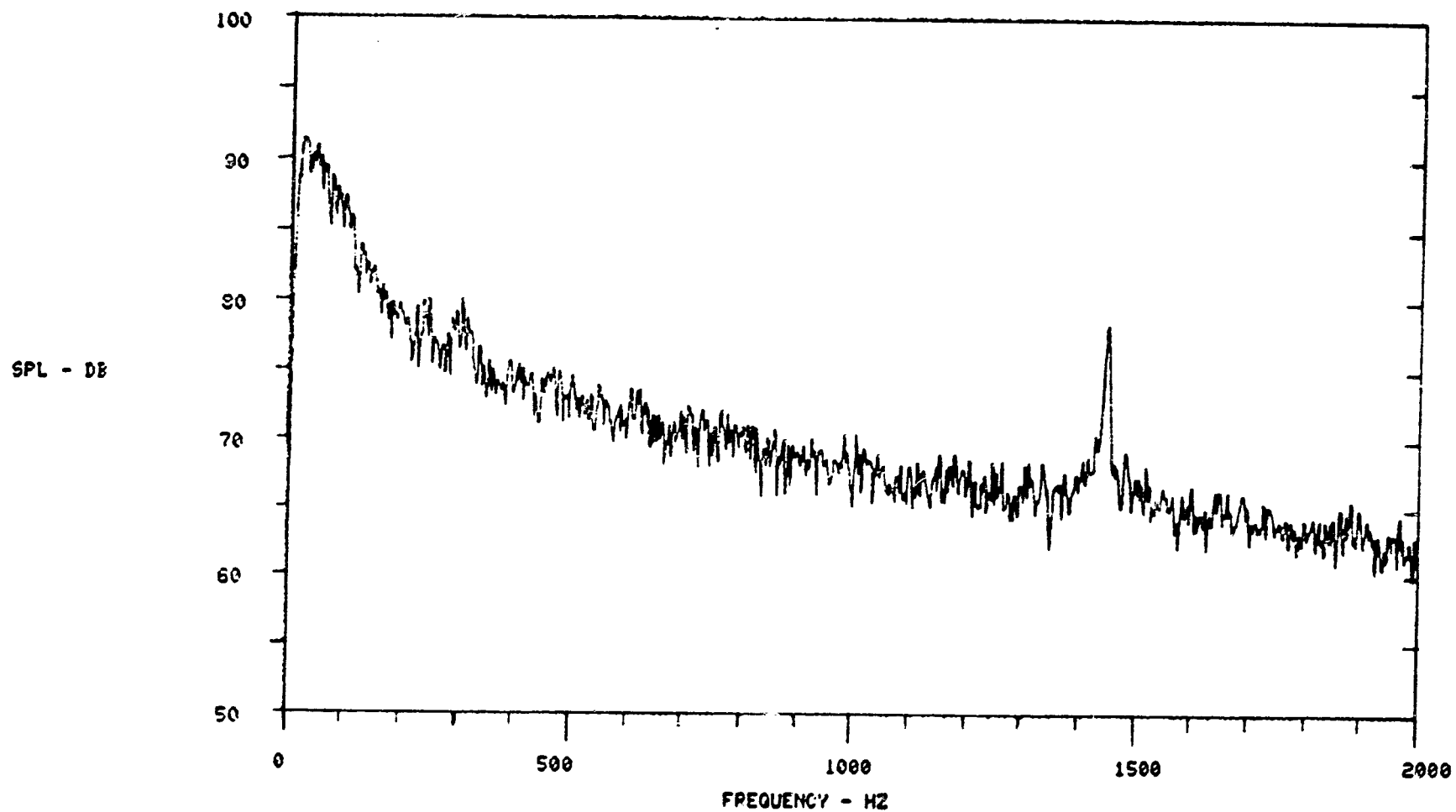


MIC 140 DEG
 RDG NO 551
 FAN SPEED 2350 RPM
 OASPL 106.7 DB

ORIGINAL
 PAGE IS
 OF POOR
 QUALITY

RUN NO 2
 x THRUST=30.83
 0/5 1. / 0.00103
 85/8R 4896/ 8192

CF6-50 CORE NOISE PROGRAM.

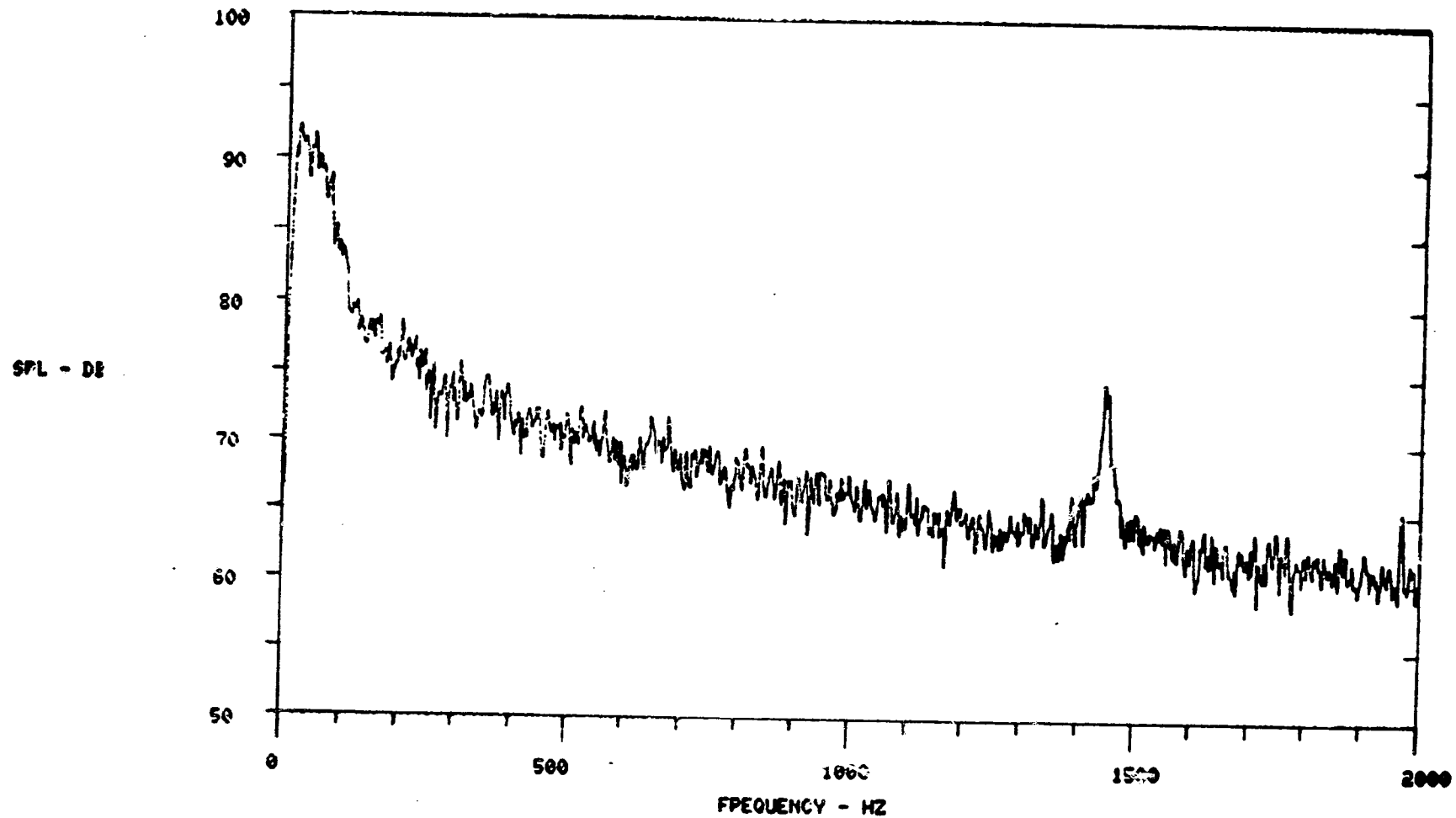


MIC 150 DEG
RDG NO 551
FAN SPEED 2350 RPM
OASPL 107.5 DB

8

RUN NO 2
* THRUST=30.83
G/C 1. / 0.00103
BS/SR 4096 / 8192

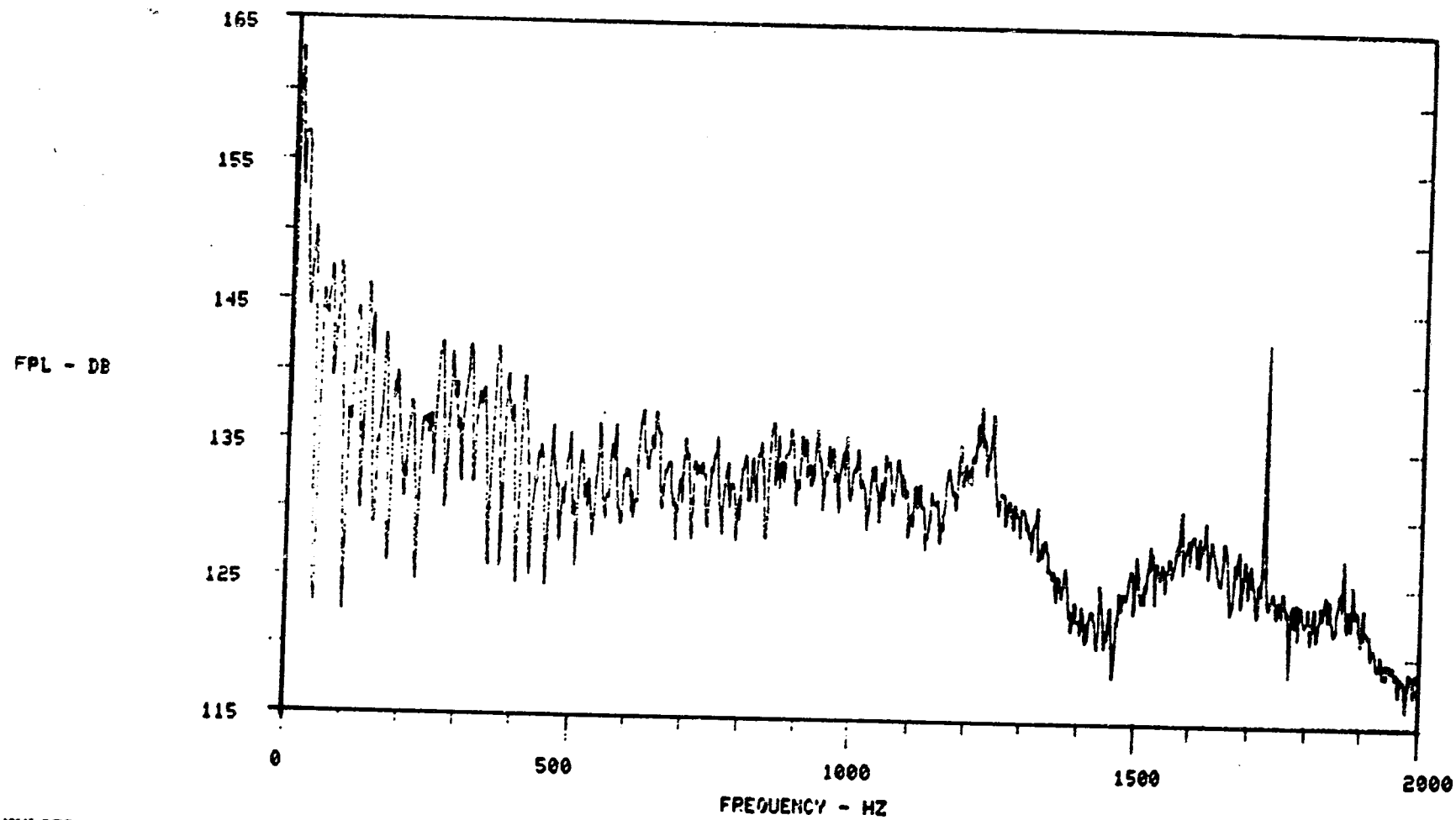
CF6-50 CORE NOISE PROGRAM.



MIC 160 DEG
RDG NO 551
FAN SPEED 2350 RPM
OASPL 106.7 DB

RUN NO 2
X THRUST-30.83
G/S 1. / 0.00103
BS/SR 4026/ 8192

CF6-50 CORE NOISE PROGRAM.

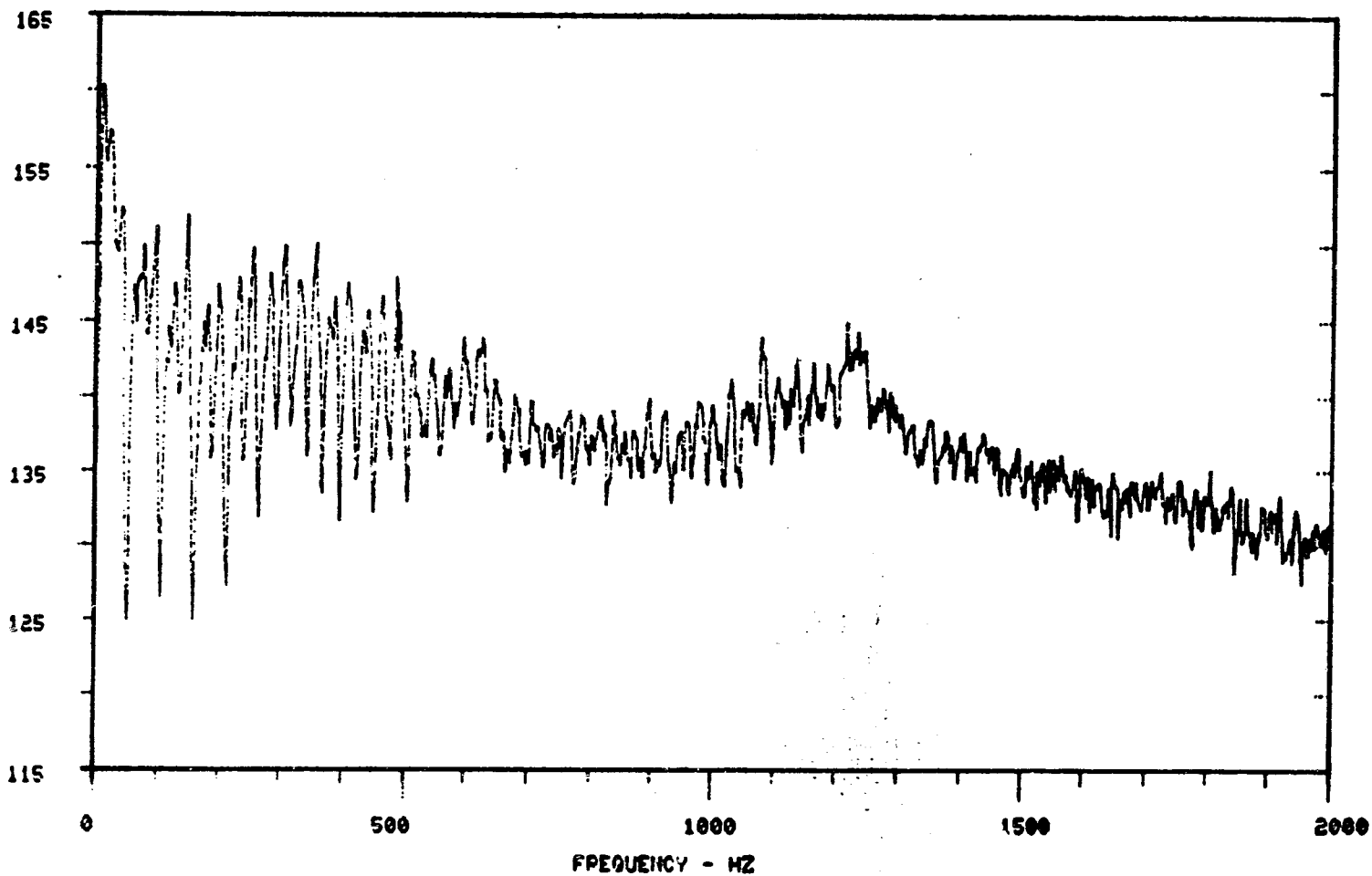


KULITE 13
RDG NO 557
FAN SPEED 2544 RPM
OAFPL 169.9 DB

85

RUN NO 5
X THRUST-36.55
G/S 1. / 5.00000
BS/SR 4096 / 8192

CF6-50 CORE NOISE PROGRAM.



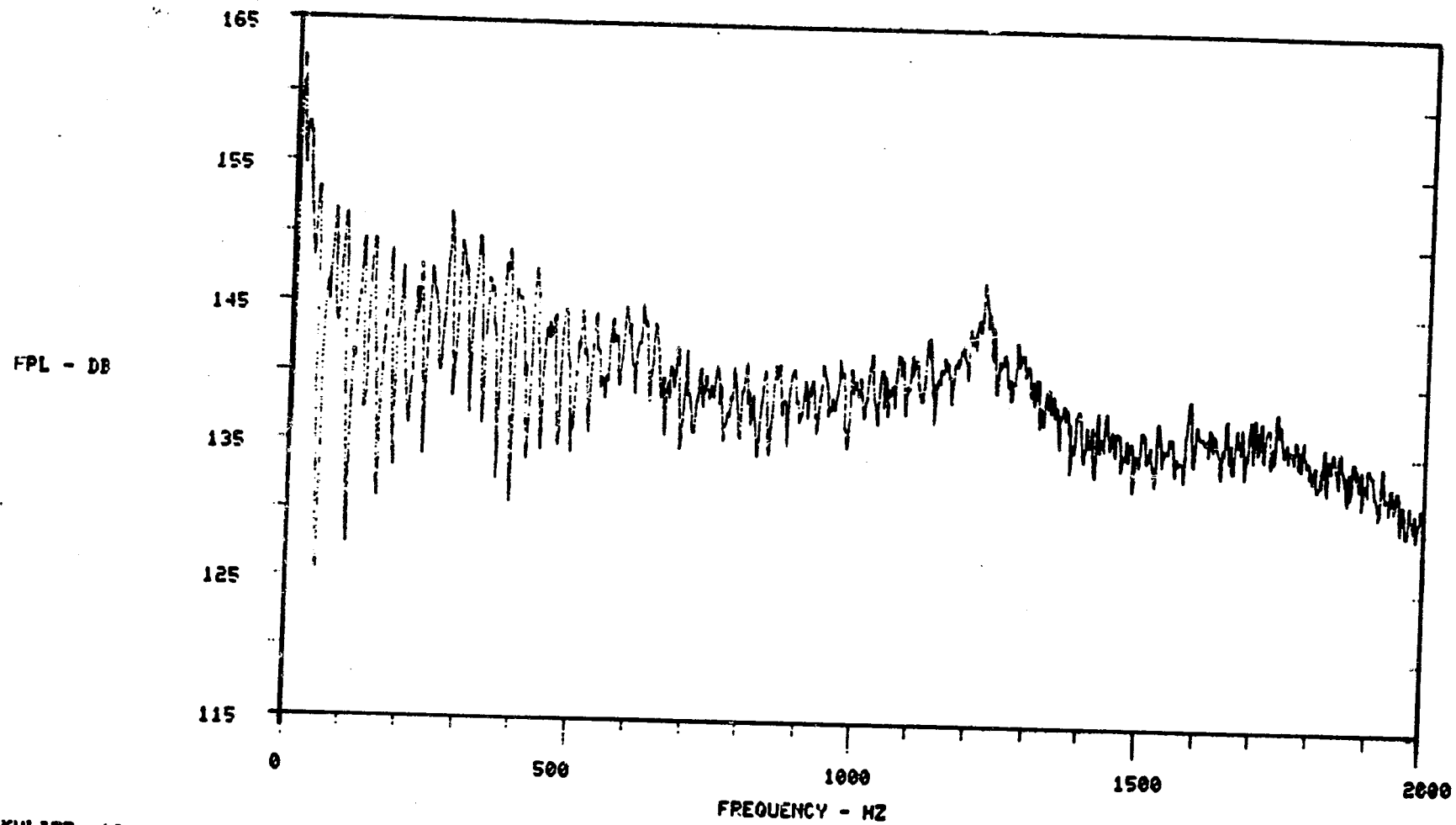
FPL - DB

ORIGINAL
PAGE IS
OF POOR
QUALITY

KULITE 19
RDG NO 557
FAN SPEED 2544 RPM
OAFPL 172.3 DB

RUN NO 5
X THRUST-36.55
O/S 1. / 2.00000
DS/SR 4096 / 8192

CF6-50 CORE NOISE PROGRAM.

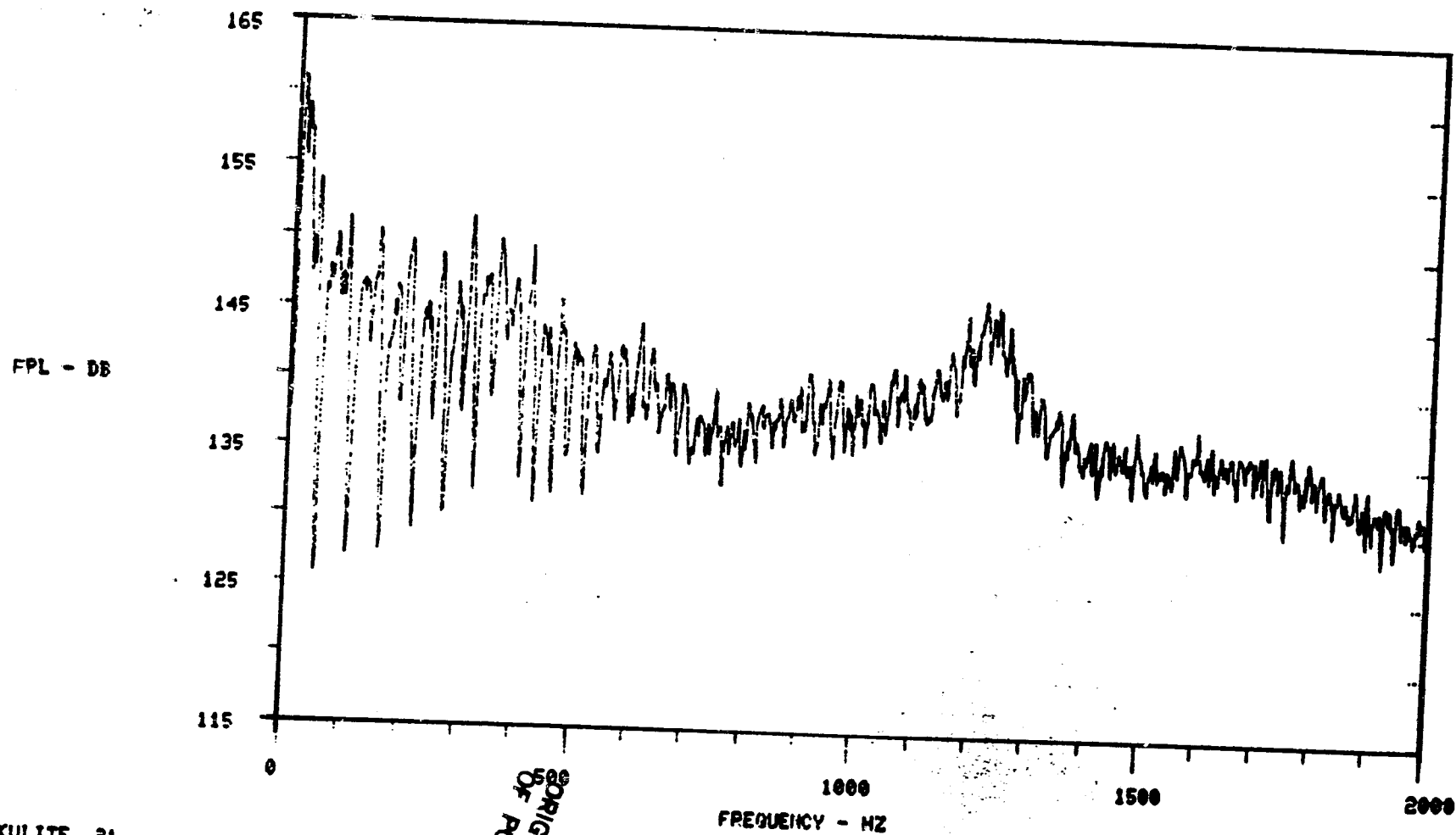


KULITE 20
RDG NO 557
FAN SPEED 2544 RPM
OAFPL 173.2 DB

87

RUN NO 5
X THRUST-36.55
G/S 1./ 2.00000
BS/SR 4096/ 8192

CF6-50 CORE NOISE PROGRAM.

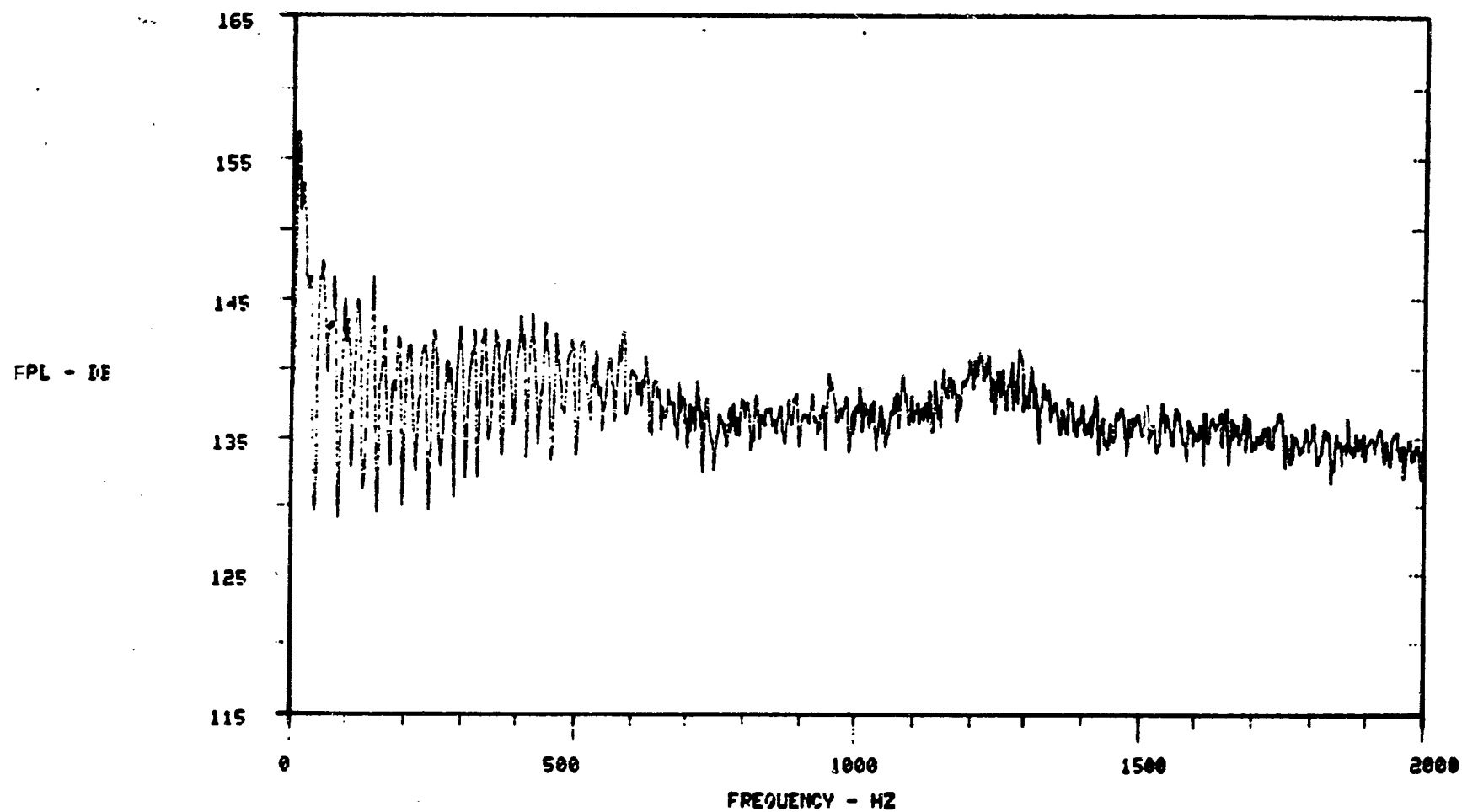


KULITE 21
RDG NO 557
FAN SPEED 2544 RPM
OAFPL 172.9 DB

ORIGINAL PAGE IS
OF POOR QUALITY

RUN NO 5
X THRUST 36.55
O/S 1. / 2.0000
BB/SR 4096 / 8192

CF6-50 CORE NOISE PROGRAM.



KULITE 22
RDG NO 557
FAN SPEED 2544 RPM
OAFPL 169.5 DB

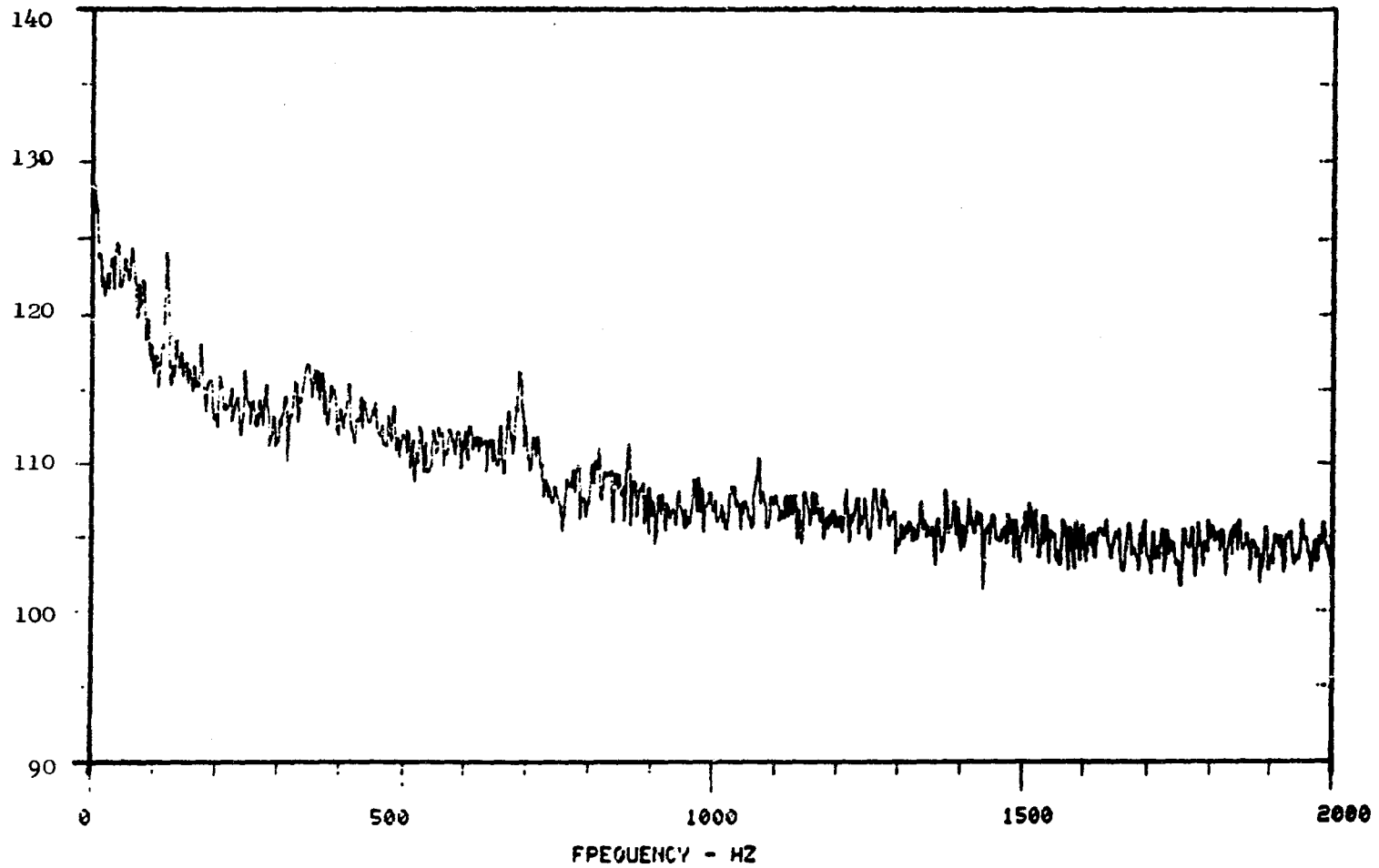
68

RUN NO 5
* THRUST=36.55
G/S 1./ 2.00000
BS/GR 4096/ 8192

06

CF6-50 CORE NOISE PROGRAM

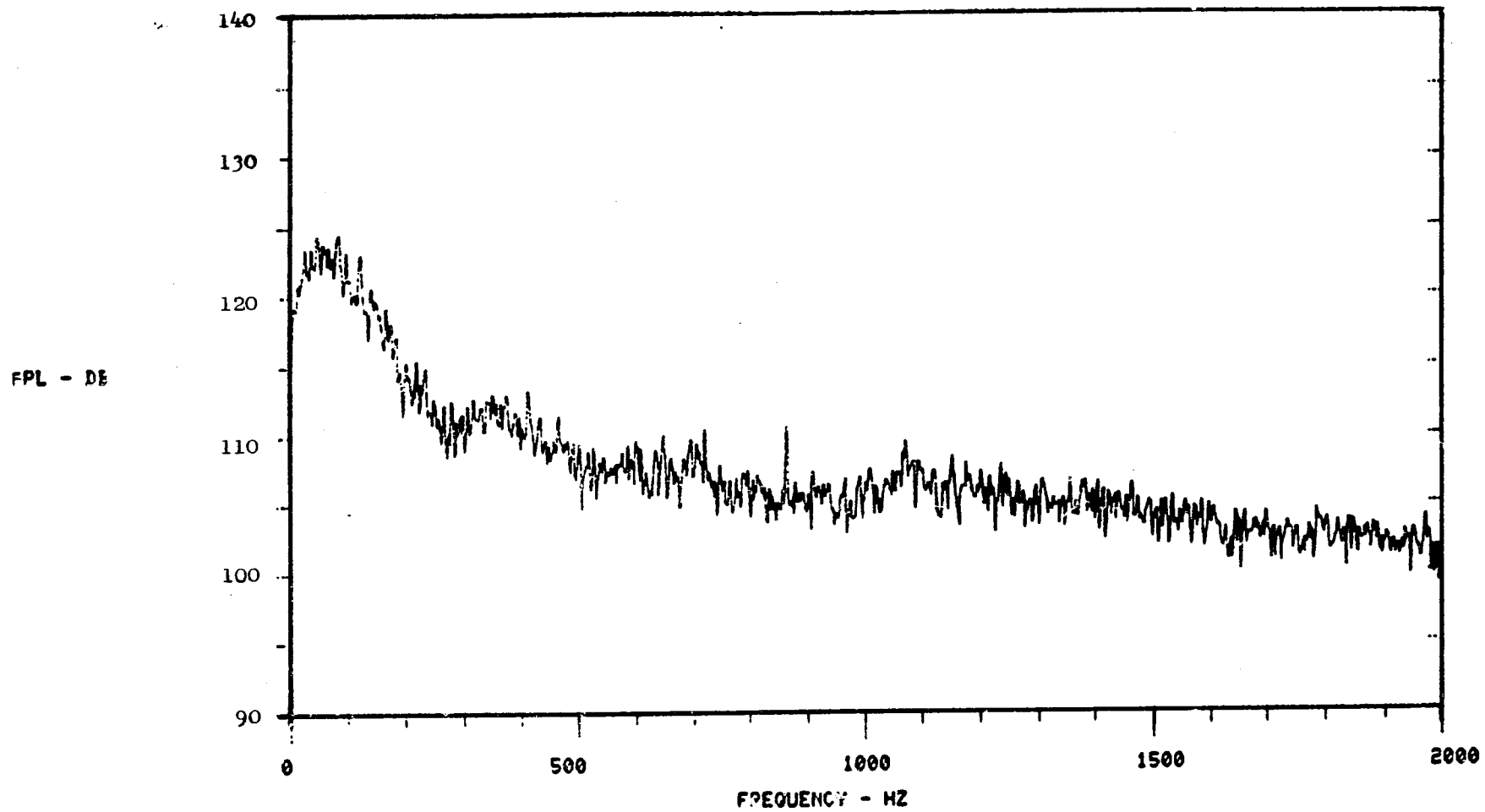
FPL - DE



KULITE 24
RDG NO 557
FAN SPEED 2544 RPM
OAFPL 143.1 DB

RUN NO 5
X THRUST 36.55
G/S 1. / 2.00000
BS/SR 4096 / 8192

CF6-50 CORE NOISE PROGRAM

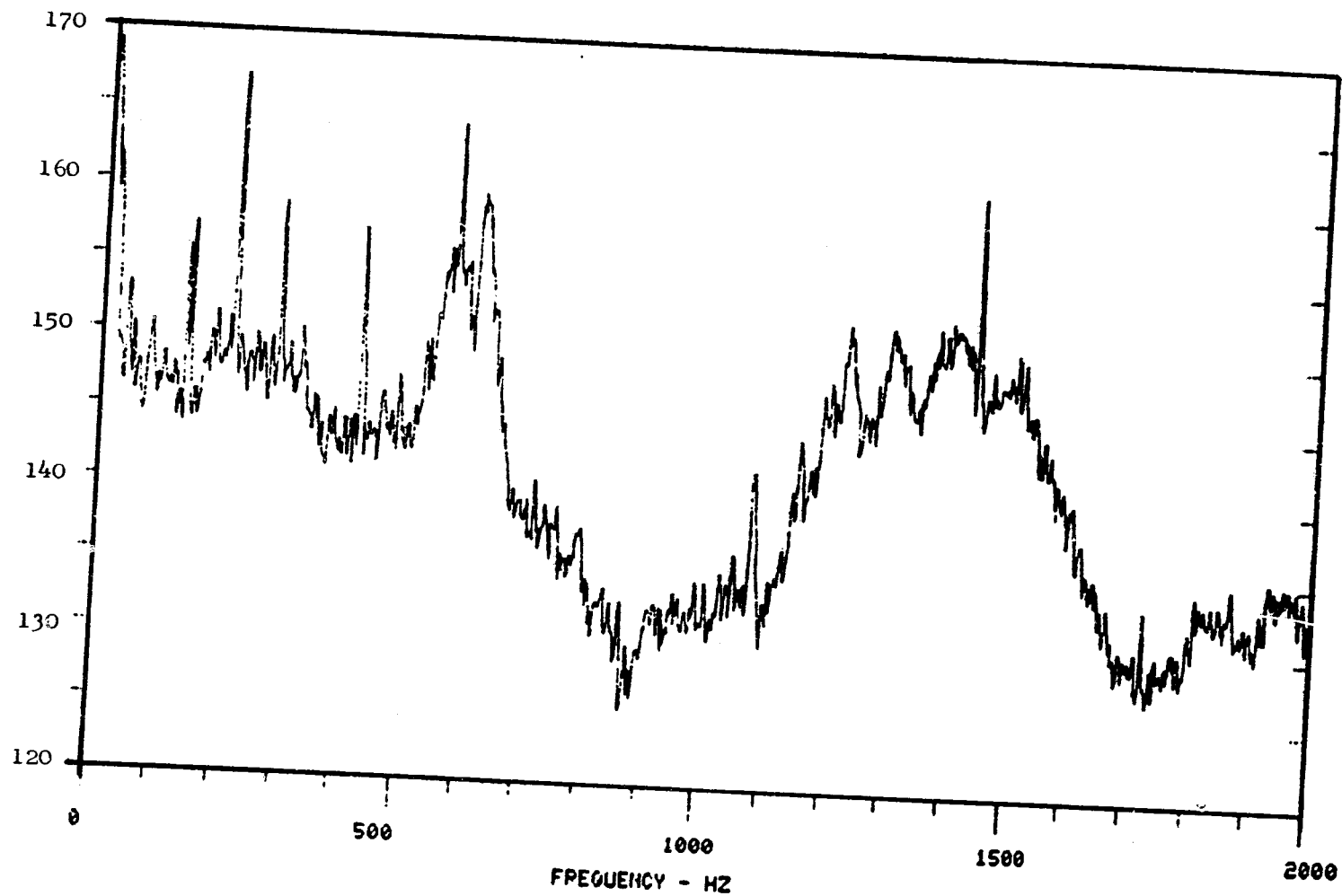


KULITE 26
RDG NO 557
FAN SPEED 2544 RPM
OAFPL 142.3 DB

16

RUN NO 5
X THRUST-36.55
G/S 1. / 1.00000
BS/SR 4096/ 8192

CF6-50 CORE NOISE PROGRAM



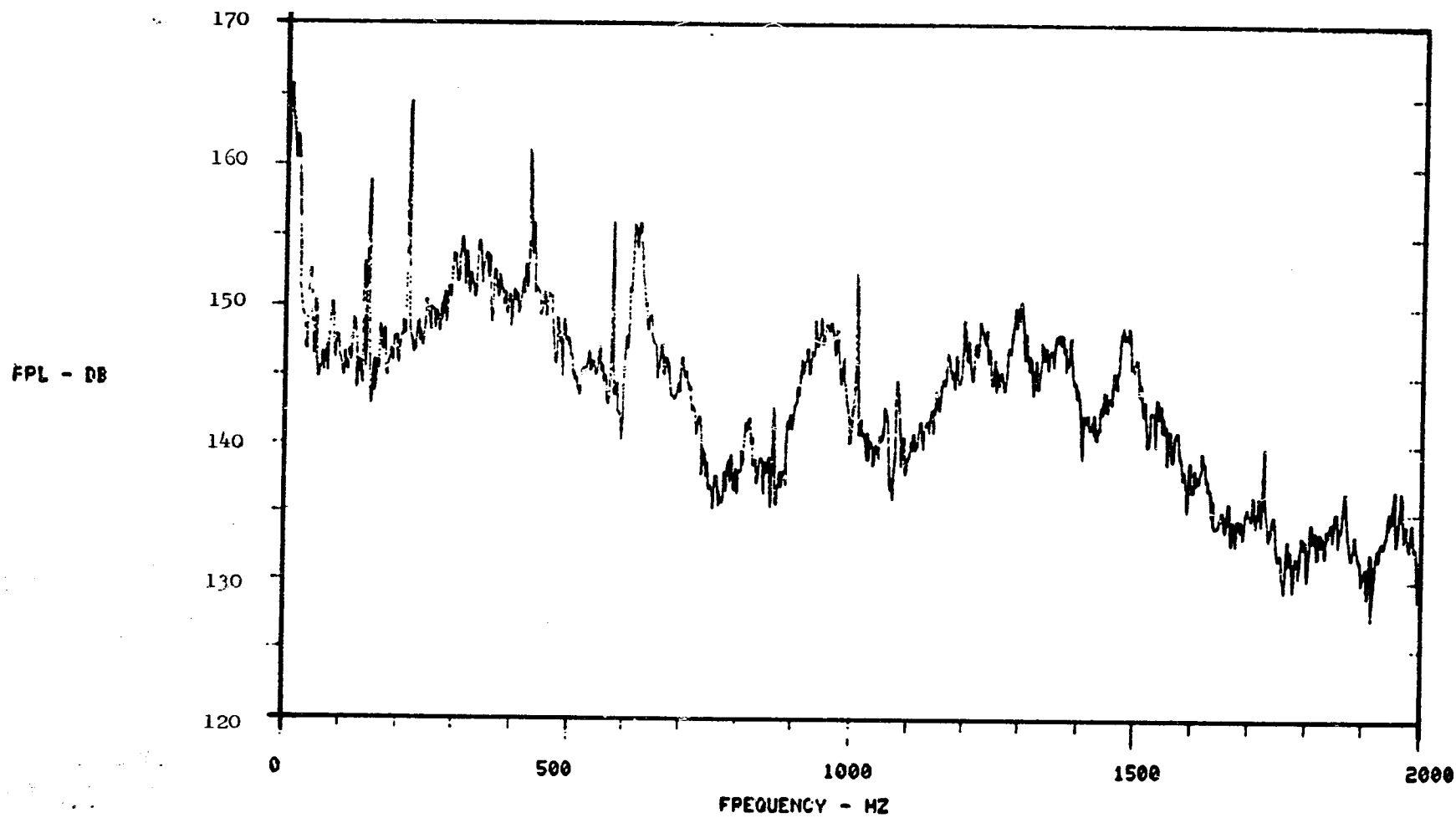
FPL - DB

ORIGINAL PAGE IS
OF POOR QUALITY

KULITE 23
RDG NO 557
FAN SPEED 2544 RPM
OAFPL 180.7 DB

RUN NO 5
X THRUST-36.55
G/S 1. / 1.00000
BS/SR 4096 / 8192

CF6-50 CORE NOISE PROGRAM



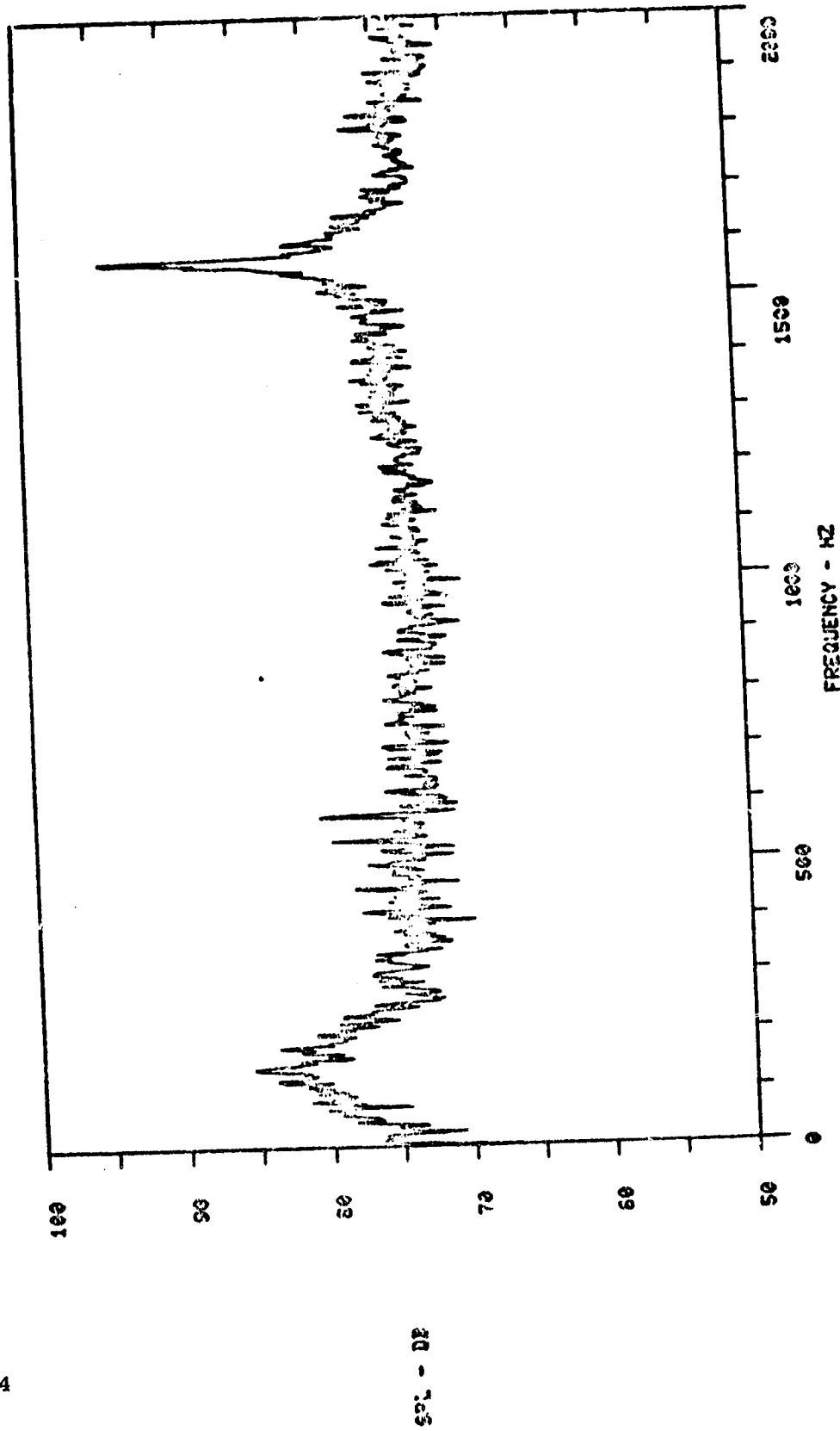
KULITE 25
RDG NO 557
FAN SPEED 2544 RPM
OAFPL 178.5 DB

33

RUN NO 5
% THRUST 36.55
G/S 1. / 0.50000
BS/SR 4096 / 8192

CF6-50 CORE NOISE PROGRAM.

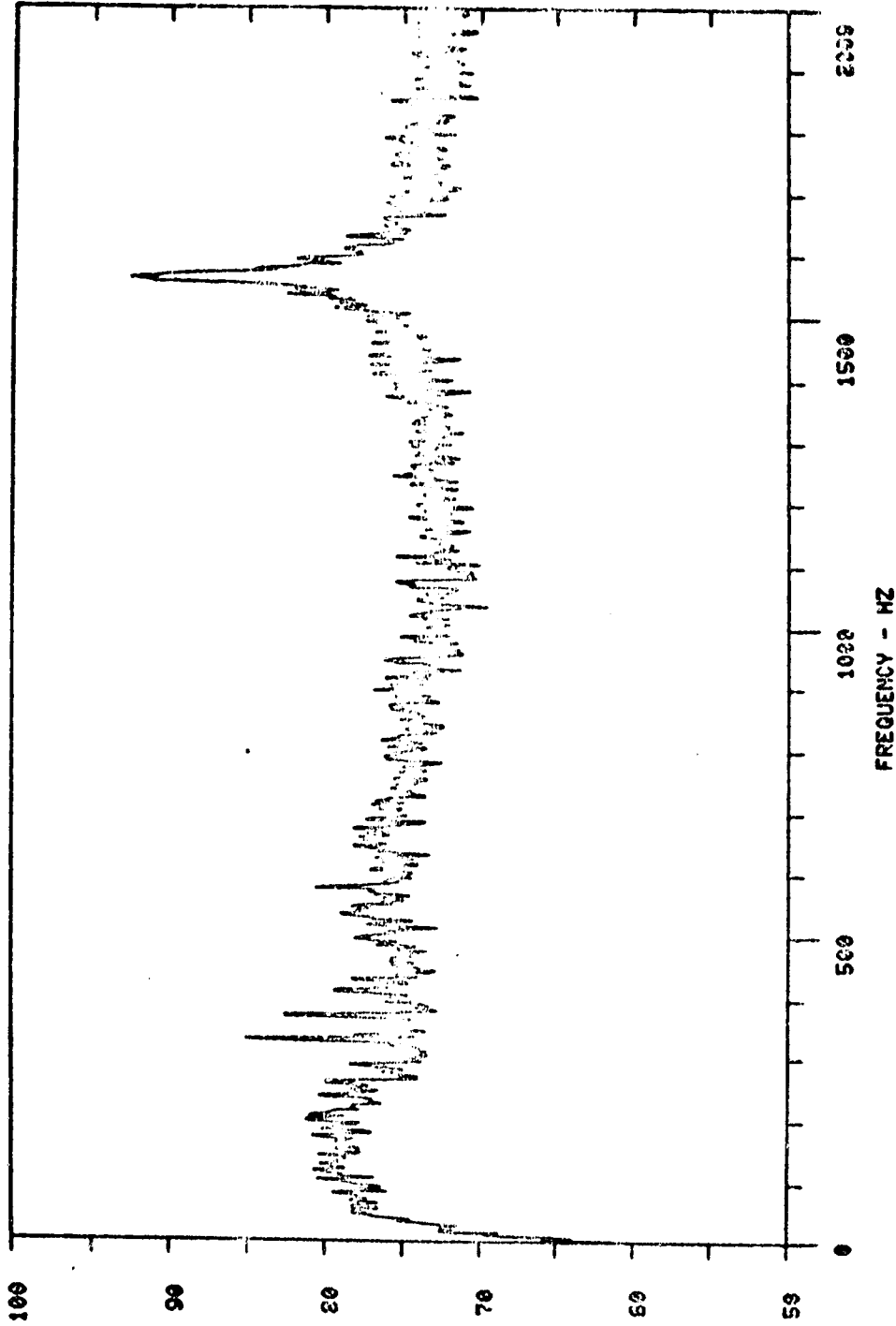
94



RUN NO 5
X THRUST=26.55
Q/S 1.7 0.0225
BS/SR 4026/ 198

MIC 10 DEG
RDG NO 557
FAN SPEED 2544 RPM
CASPL 166.8 DB

CF6-50 CORE NOISE PROGRAM.



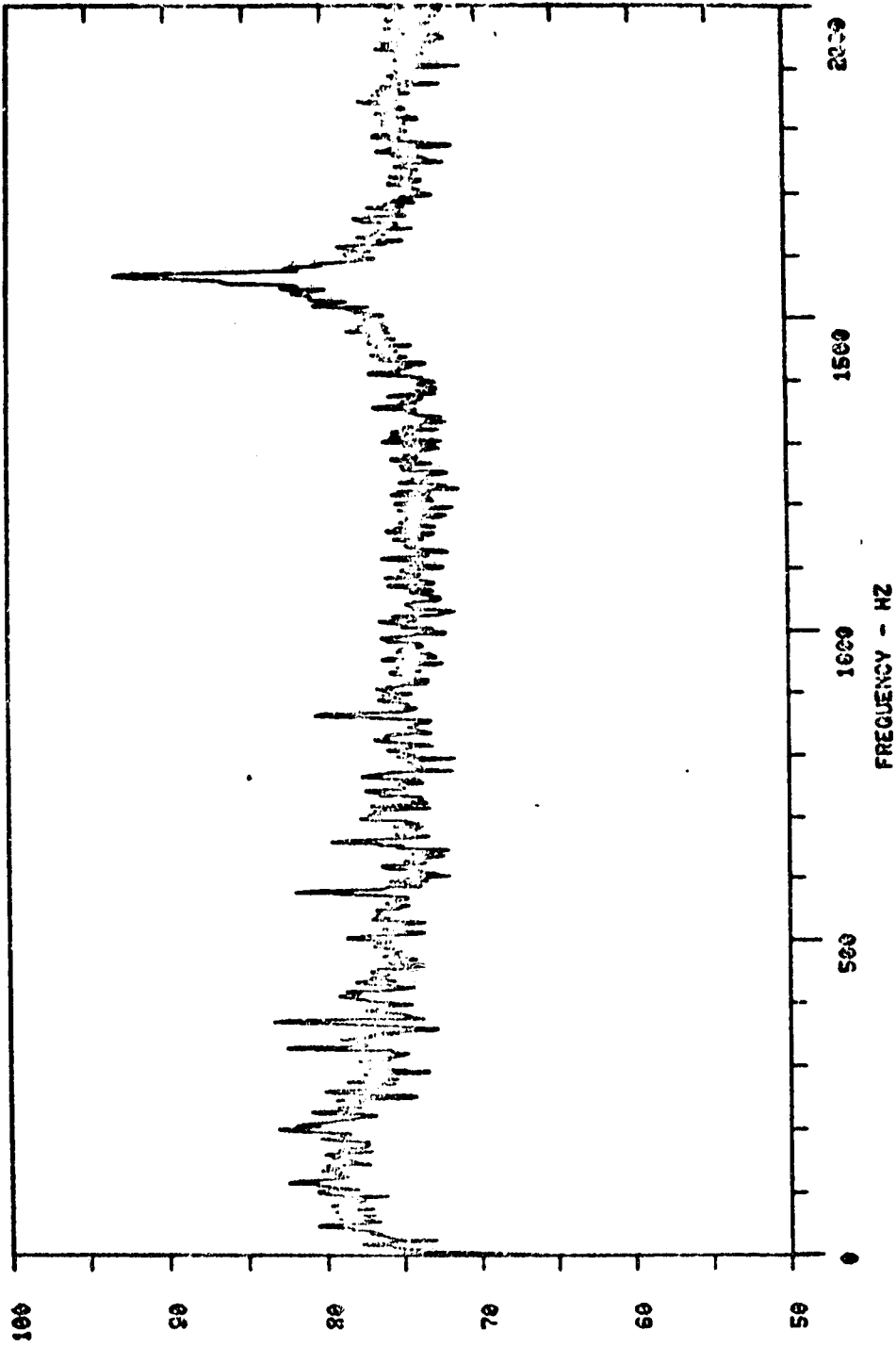
SPL - DB

ORIGINAL PAGE 1
OF POOR QUALITY

TIC 30 DEG
RDG NO 557
FAN SPEED 2544 RPM
CASPL 166.9 DB

RUN NO 5
* THRUST-38.56
O/S 1. / 0.0033
SS/SR 4000 / 8103

CF6-50 CORE NOISE PROGRAM.

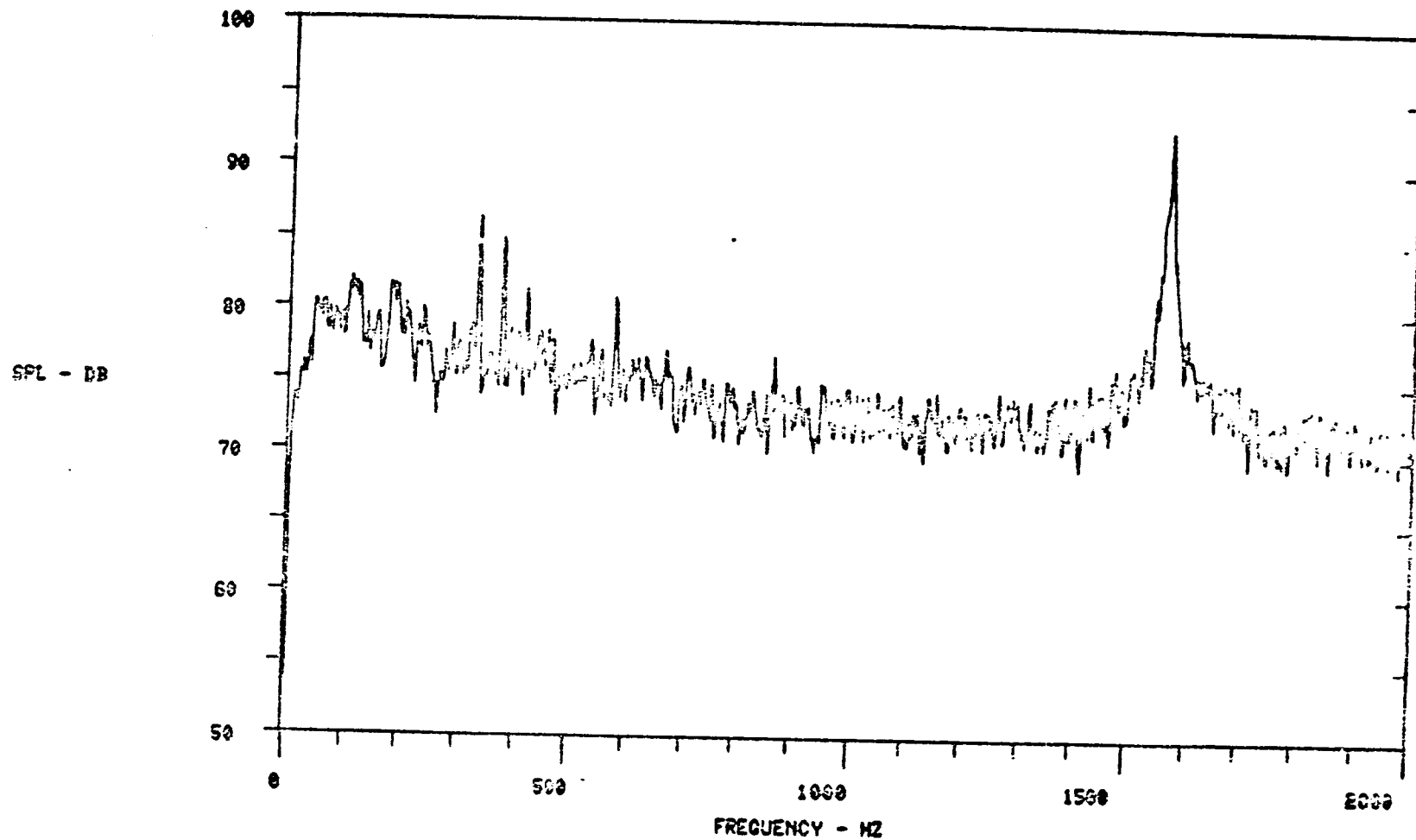


NIC 40 DEG
RDG NO 557
FAN SPEED 2544 RPM
QASFL 107.1 DB

RUN NO 5
X THRUST-33.85
Q/S 1.7 0.65325
28/5R 4058/ 8192

C-2

CF6-50 CORE NOISE PROGRAM.

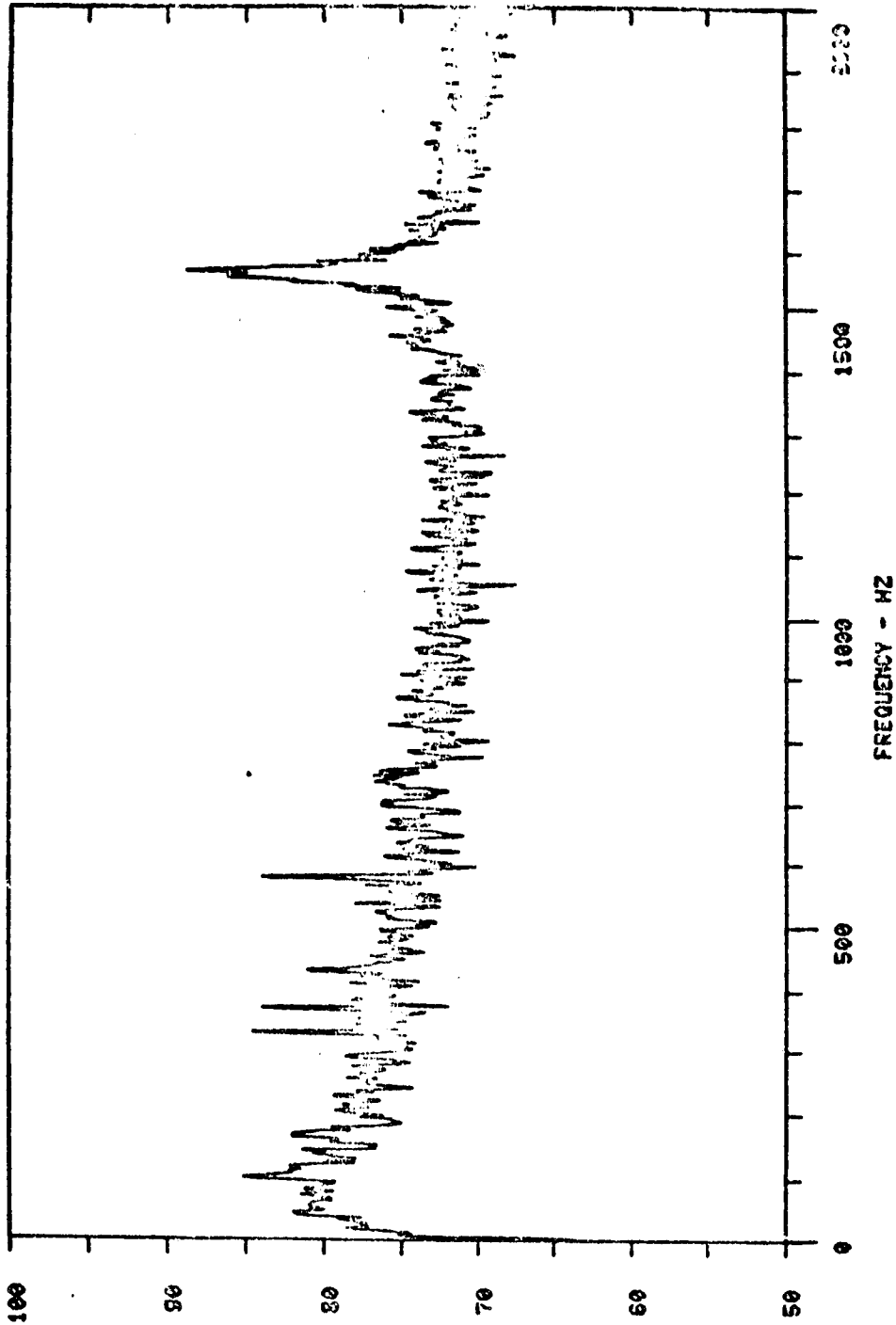


RIC 50 DEG
RDS NO 557
FAN SPEED 2544 RPM
CASPL 100.2 DB

97

RUN NO 5
* THRUST=38.55
R/S 1. / 0.0220S
ES/SR 4000/ 8500

CF6-50 CORE NOISE PROGRAM.



SPL - DB

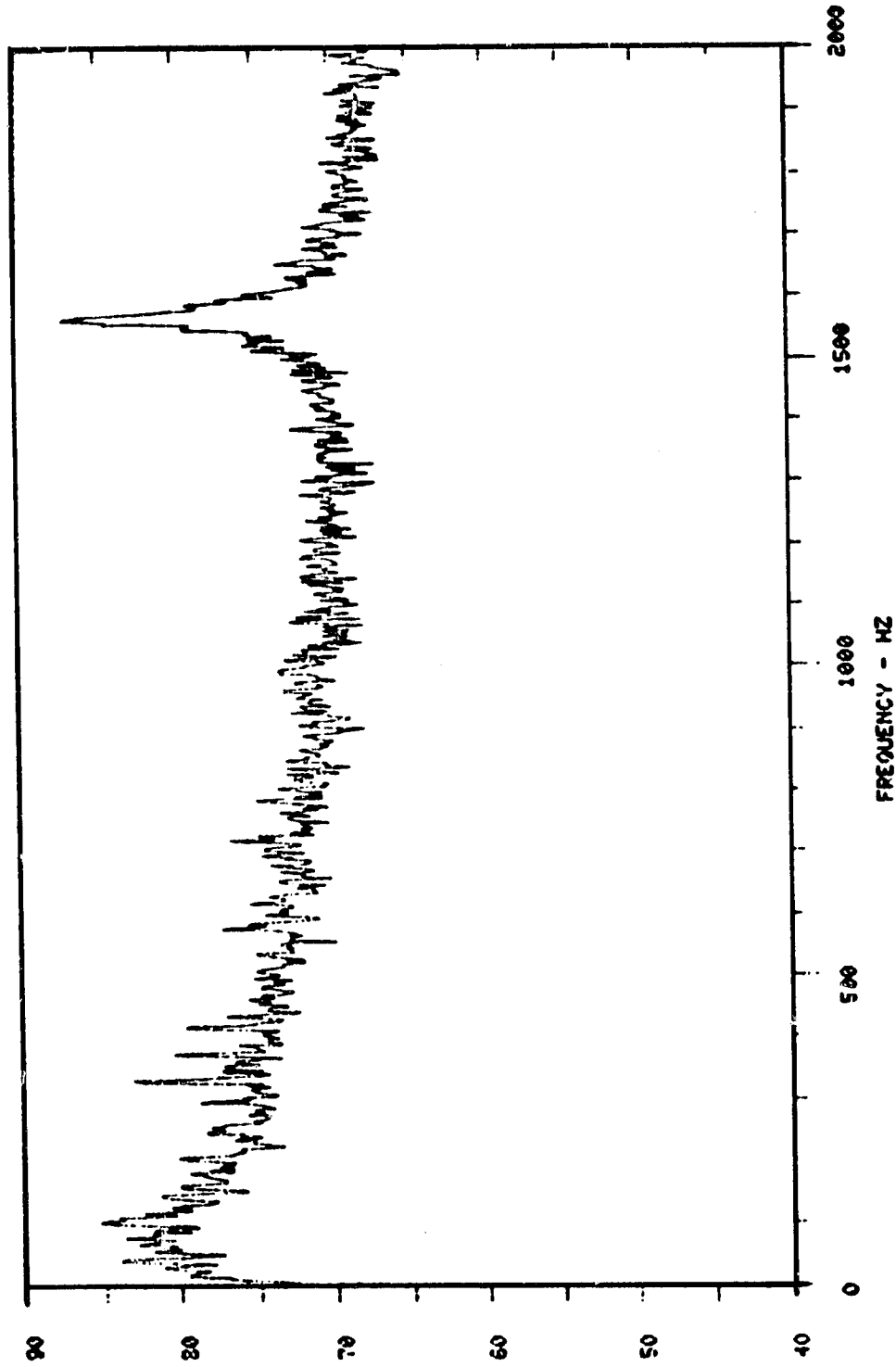
FREQUENCY - HZ

NIC 60 DEG
R00 NO 557
FAN SPEED 2544 RPM
CASPL 165.8 DB

RUN NO 5
% THRUST 33.65
G/S 1.7 0.03003
SS/SR 4003/ 8192

ORIGINAL PAGE IS
OF POOR QUALITY

CF6-50 CORE NOISE PROGRAM

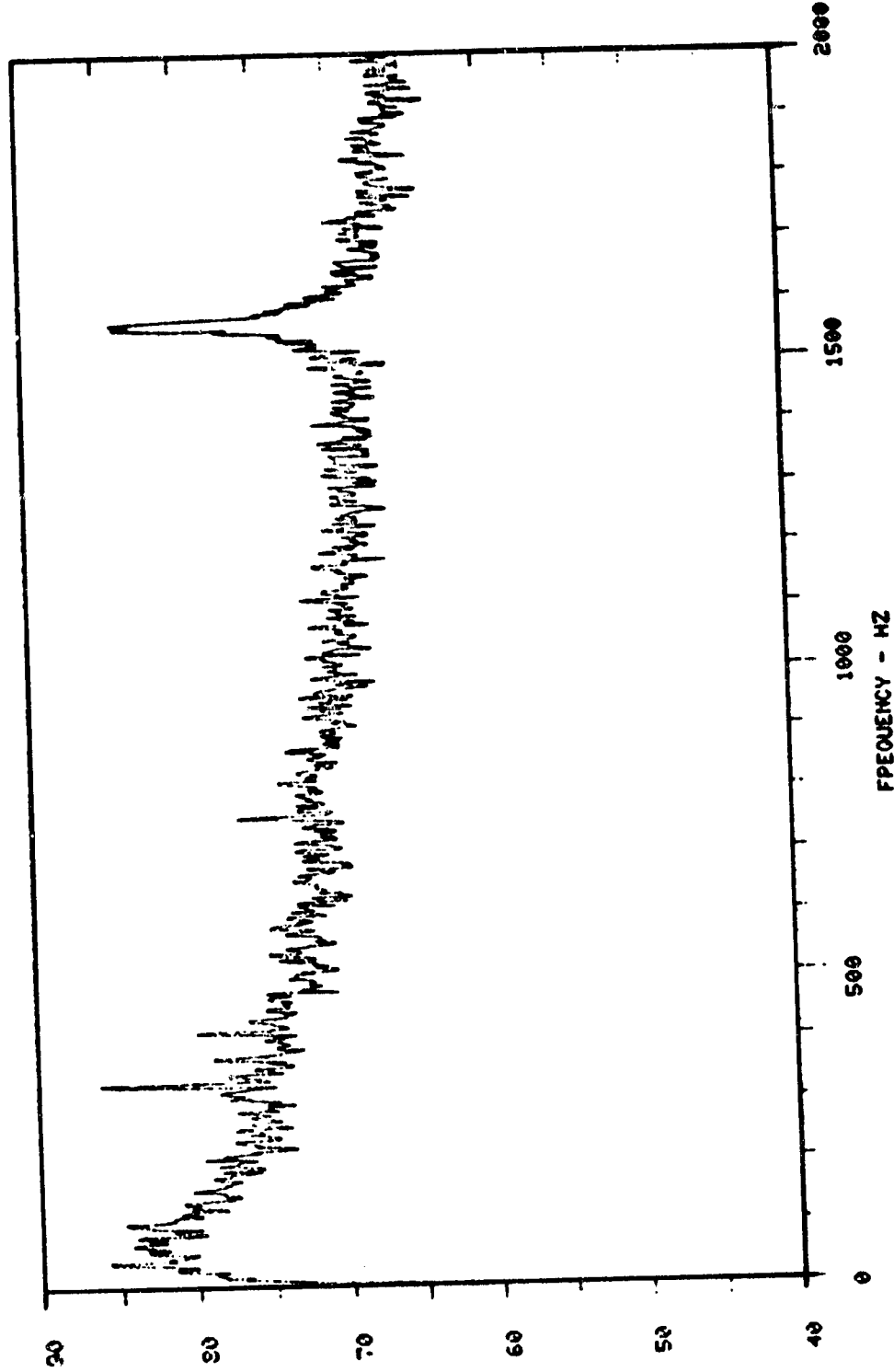


SPL - DB

MIC 70 DEG
RDG NO 557
FAN SPEED 2544 RPM
OASPL 104.8 DB

RUN NO 5
X THRUST-36.65
G/S 1.7 0.00325
BS/SR 4096/ 8192

CF6-50 CORE NOISE PROGRAM



100

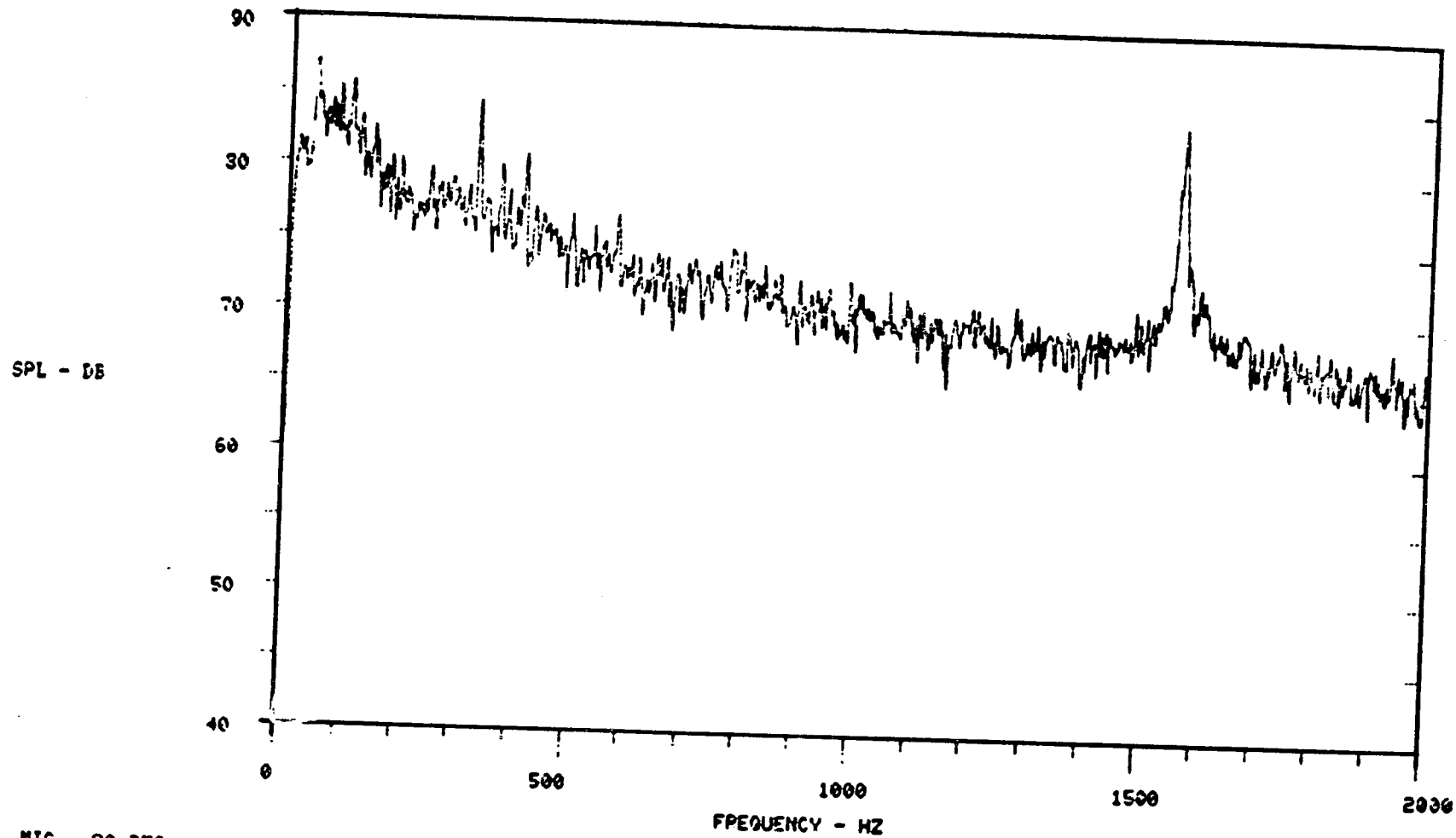
SPL - DB

FREQUENCY - HZ

NIC 80 DEG
RDG NO 557
FAN SPEED 2544 RPM
OASPL 104.4 DB

RUN NO 5
X THRUST=36.65
G/S 1.7 0.00103
BS/SR 4996/ 8192

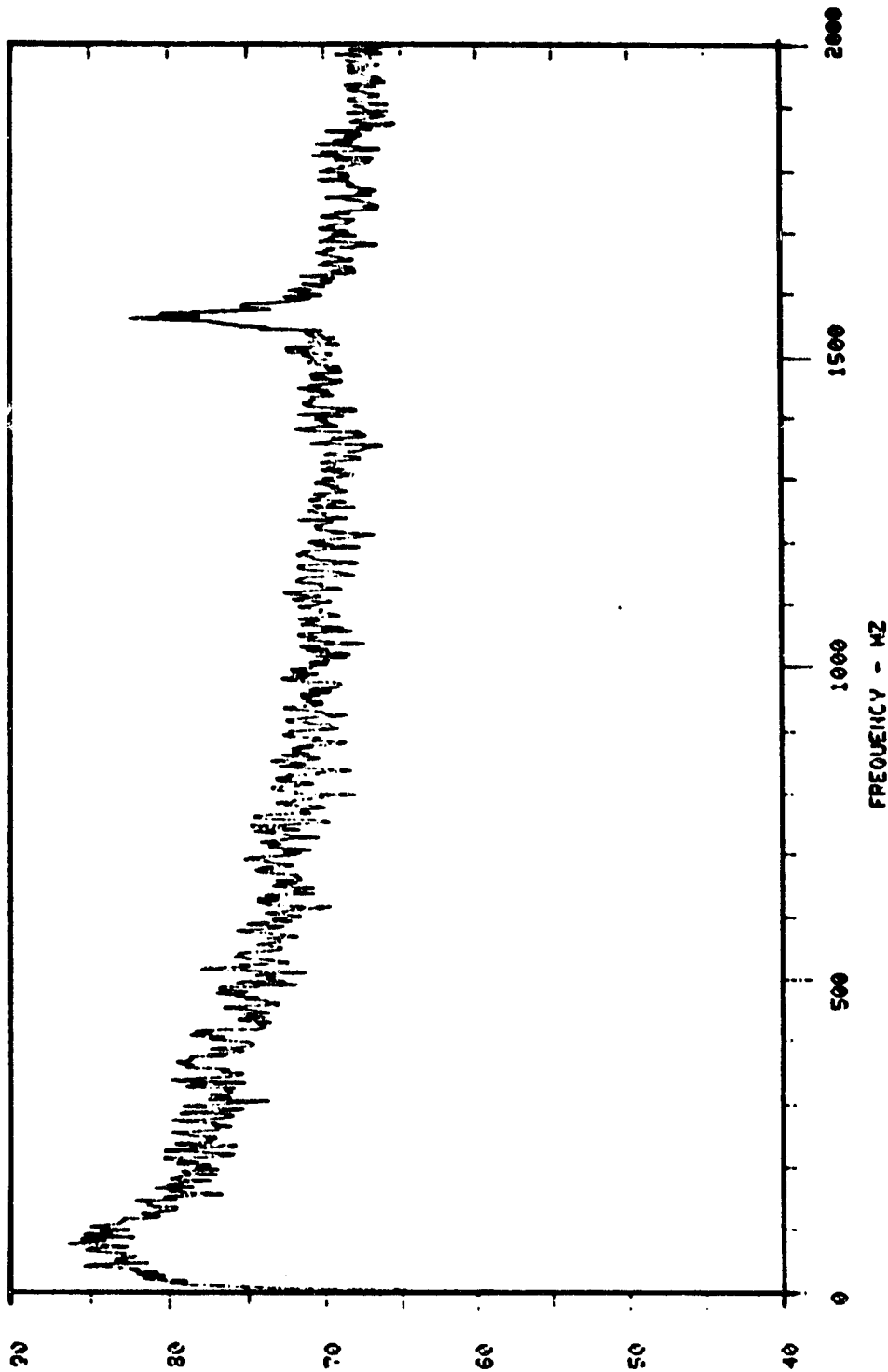
CF6-50 CORE NOISE PROGRAM



MIC 90 DEG
RDG NO 557
FAN SPEED 2544 RPM
OASPL 104.8 DB
101

PUN NO 5
X THRUST-36.65
G/S 1./ 0.00103
BS/SR 4098/ 8192

CF6-50 CORE NOISE PROGRAM



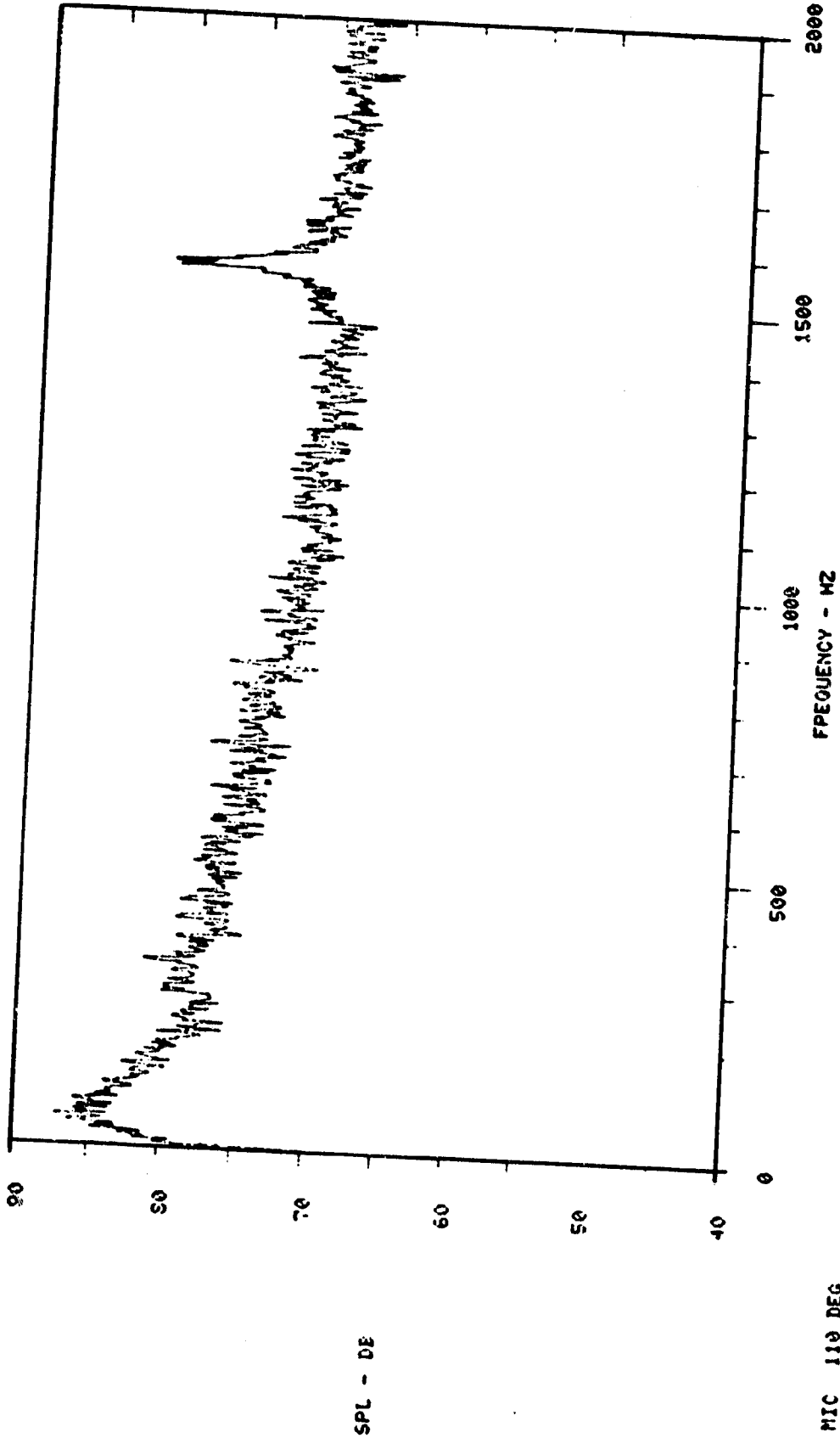
102

SPL - DE

MIC 100 DEG
RDC NO 557
FAN SPEED 2544 RPM
OASPL 105.2 DB

RUN NO 5
% THRUST=36.65
O/S 1.7 0.00103
BS/SR 4096/ 2192

CF6-50 CORE NOISE PROGRAM

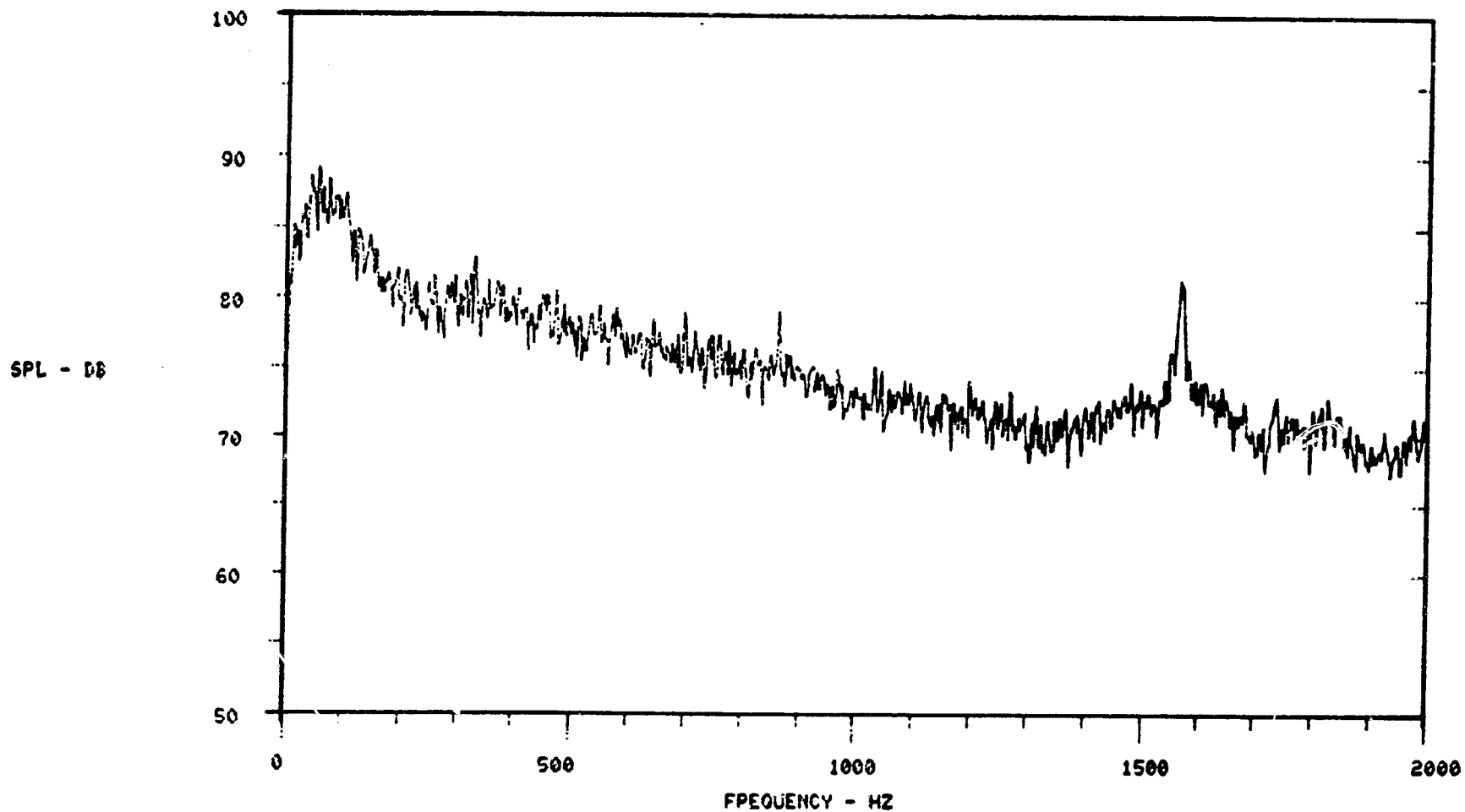


MIC 110 DEG
RDG NO 557
FAN SPEED 2544 RPM
CASPL 106.1 DB

RUN NO 5
X THRUST-36.65
Q/S 1.7 0.00103
BS/SR 4096/ 8192

104

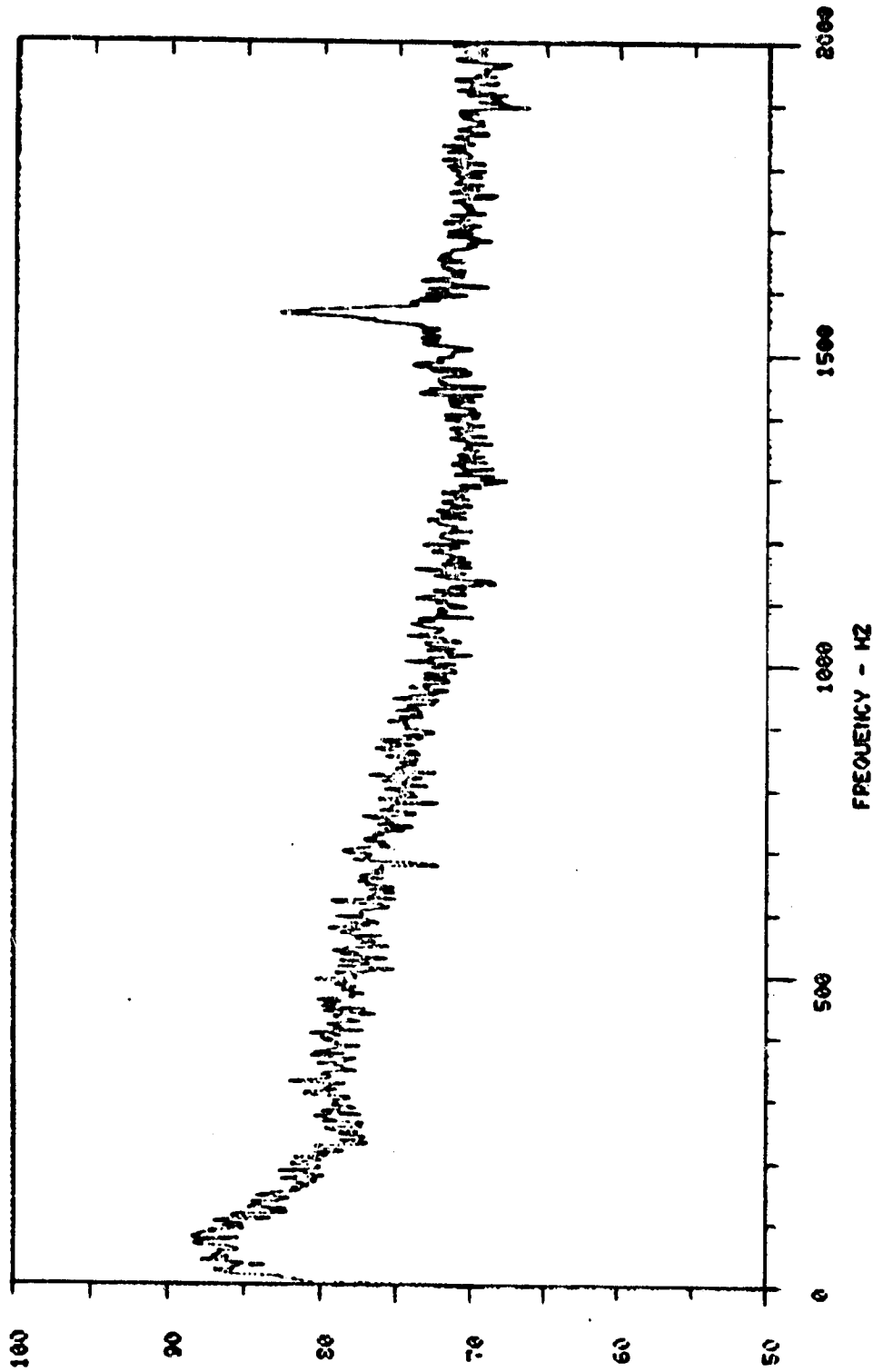
CF6-50 CORE NOISE PROGRAM.



MIC 120 DEG
RDG NO 557
FAN SPEED 2544 RPM
OASPL 107.8 DB

RUN NO 5
* THRUST=36.55
G/S 1./ 0.00103
BS/SR 4096/ 8192

CF6-50 CORE NOISE PROGRAM.



SPL - DB

MIC 130 DEG

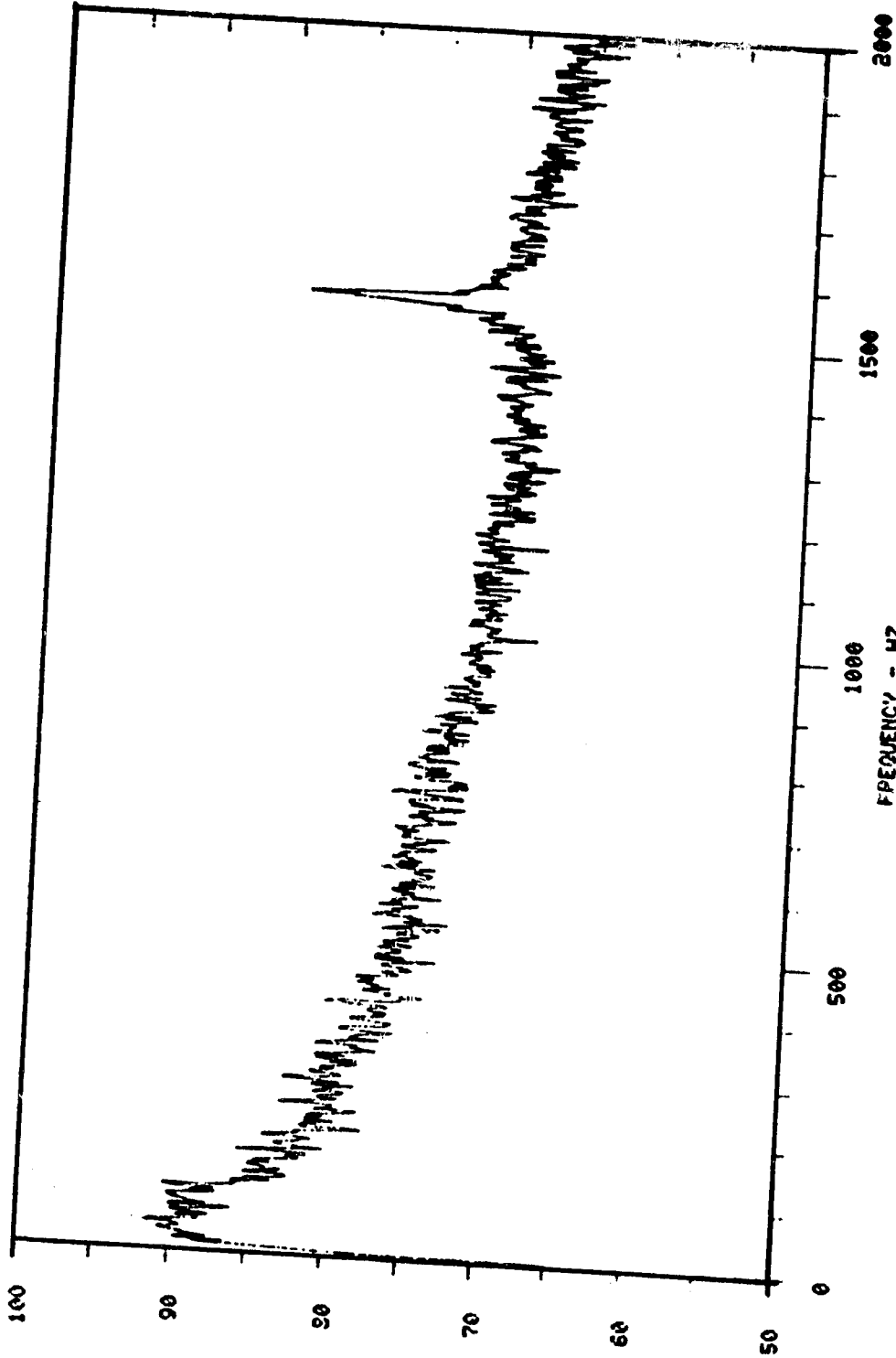
ECG NO 557

FAN SPEED 2544 RPM

OASPL 107.8 DB

RUN NO 5
% THRUST-36.55
G/S 1.7 0.00103
PS/SR 4055/ 2192

CF6-50 CORE NOISE PROGRAM.



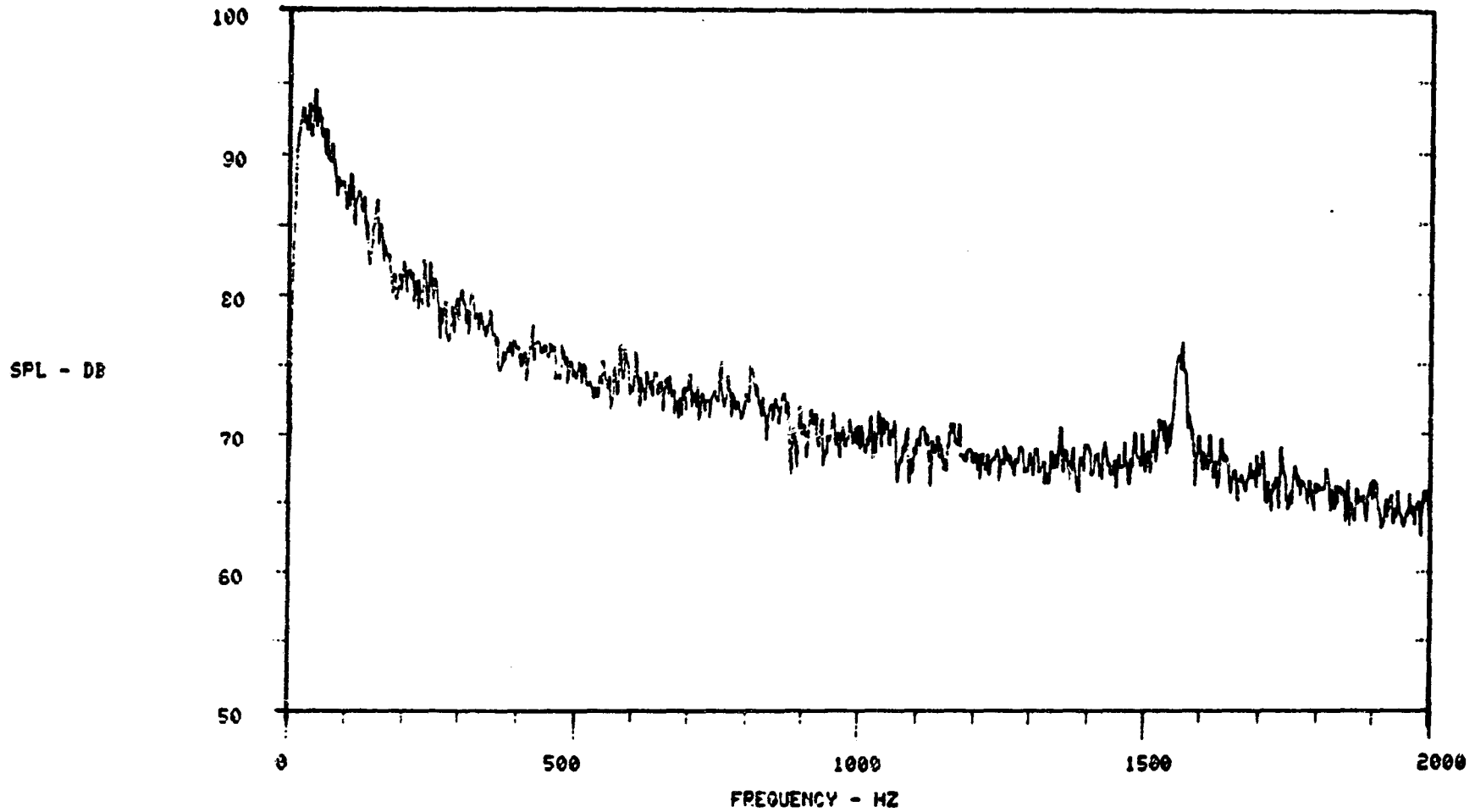
SPL - DB

ORIGINAL PAGE IS
OF POOR QUALITY

MIC 140 DEG
RDG NO 557
FAN SPEED 25-14 RPM
OASPL 108.6 DB

RUN NO 5
x THRUST-36.55
G/S 1.7 0.00103
BS/SR 4096/ 8192

CF6-50 CORE NOISE PROGRAM.



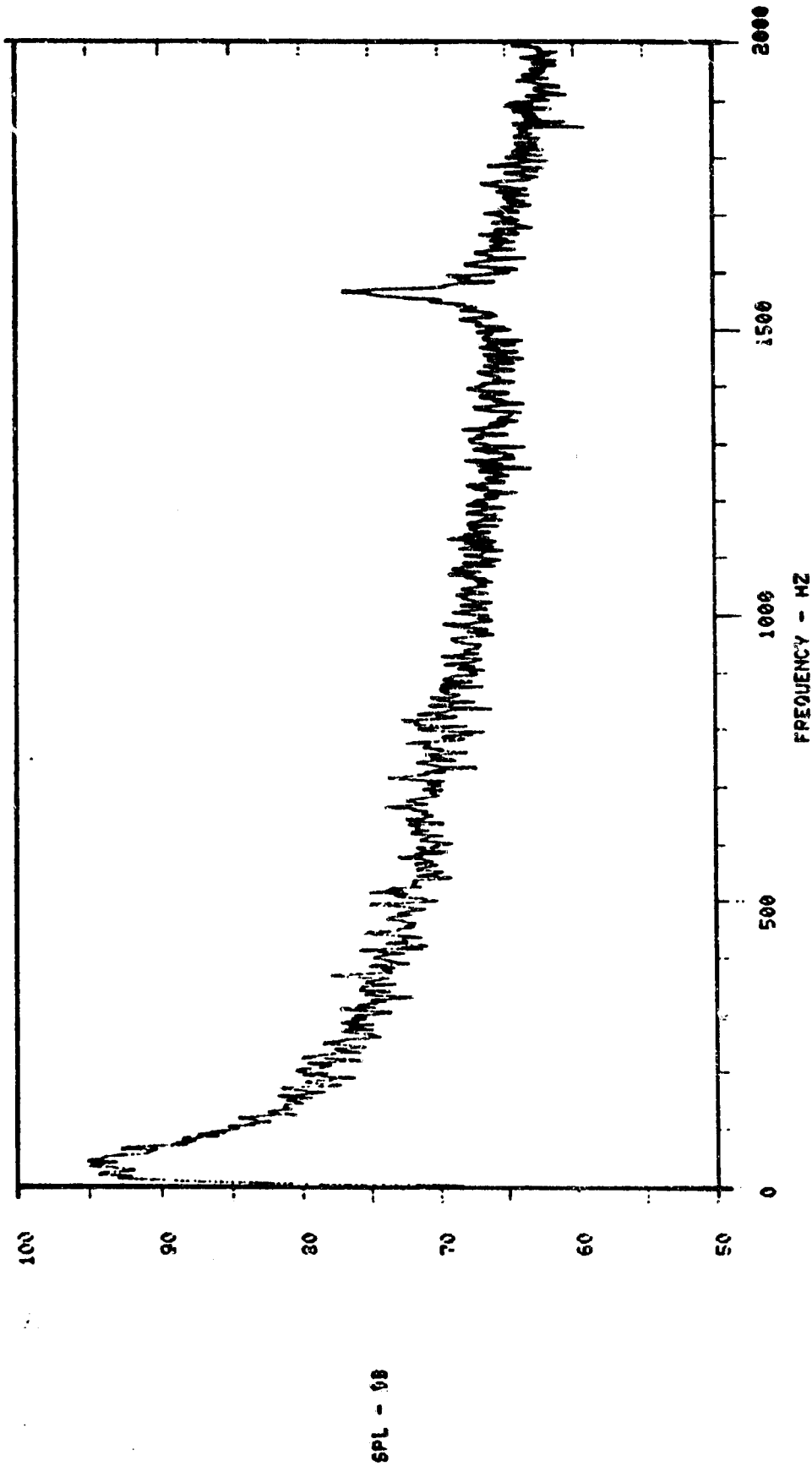
MIC 150 DEG
RDG NO 557
FAN SPEED 2544 RPM
OASPL 109.6 DB

107

RUN NO 5
% THRUST=36.55
G/S 1./ 0.00103
BS/SR 4096/ 8192

CF6-50 CORE NOISE PROGRAM.

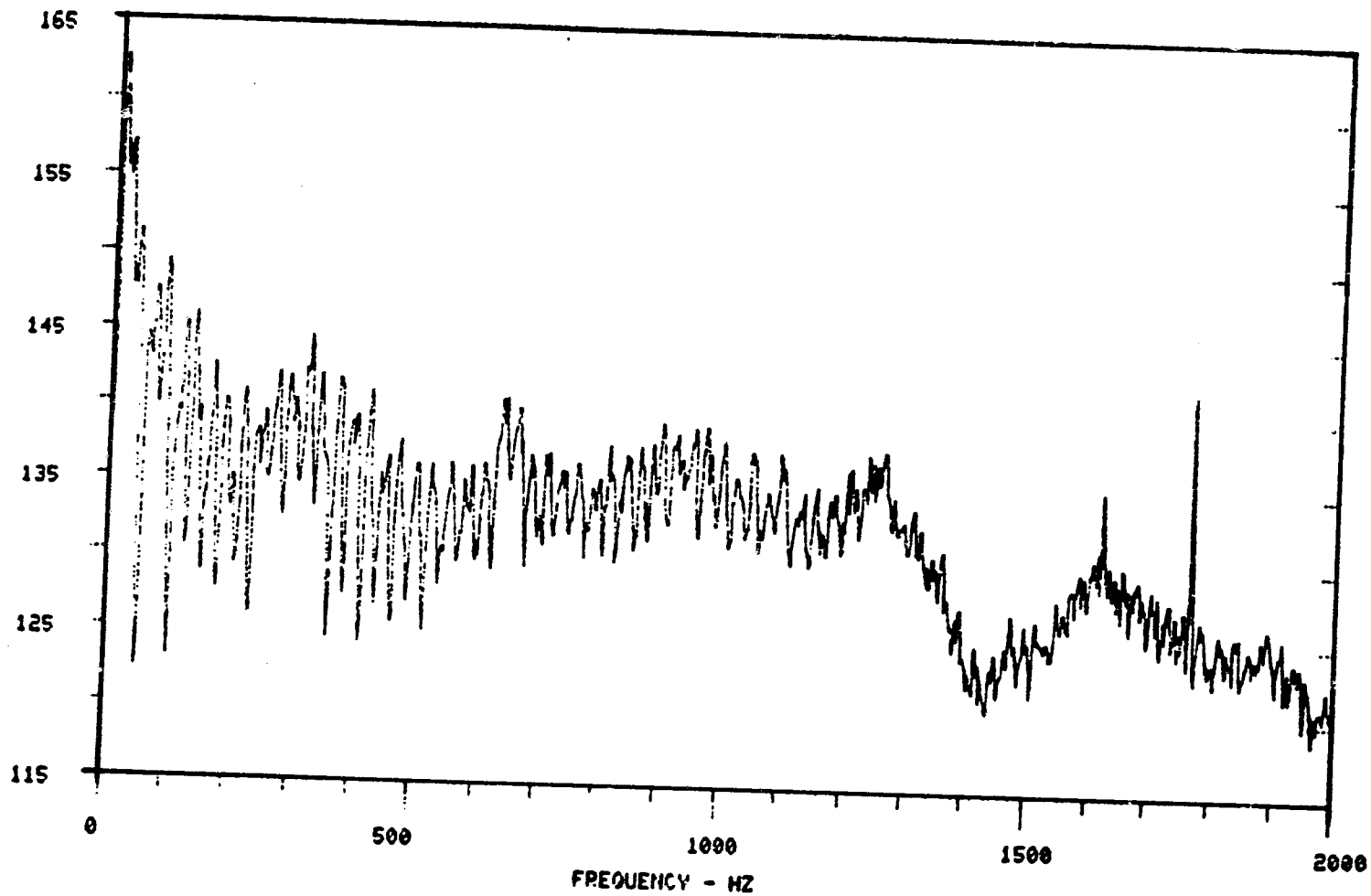
108



MIC 160 DEG
RDG NO 557
FAN SPEED 2544 RPM
OASPL 109.4 DB

PUN NO 5
X THRUST=36.55
G/S 1.7 0.00103
BS/SR 4096/ 2192

CF6-50 CORE NOISE PROGRAM.



FPL - DB

ORIGINAL PAGE IS
OF POOR QUALITY

KULITE 18
RPG NO 561
FAN SPEED 2770 RPM
OAFPL 170.5 DB

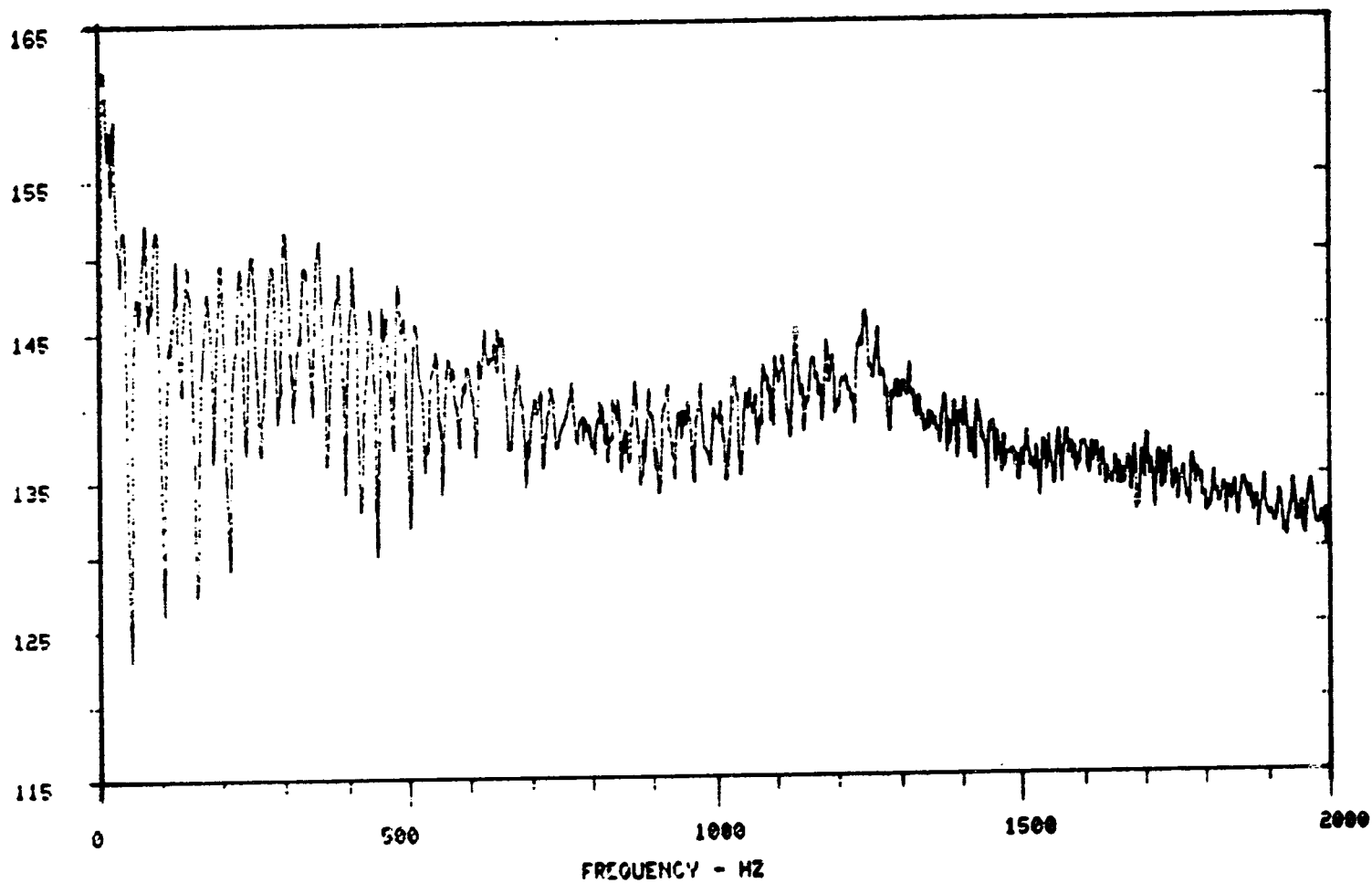
101

RUN NO 7
* THRUST=45.57
G/S 1./ 5.00000
DS/SR 4096/ 8192

CF6-50 CORE NOISE PROGRAM.

011

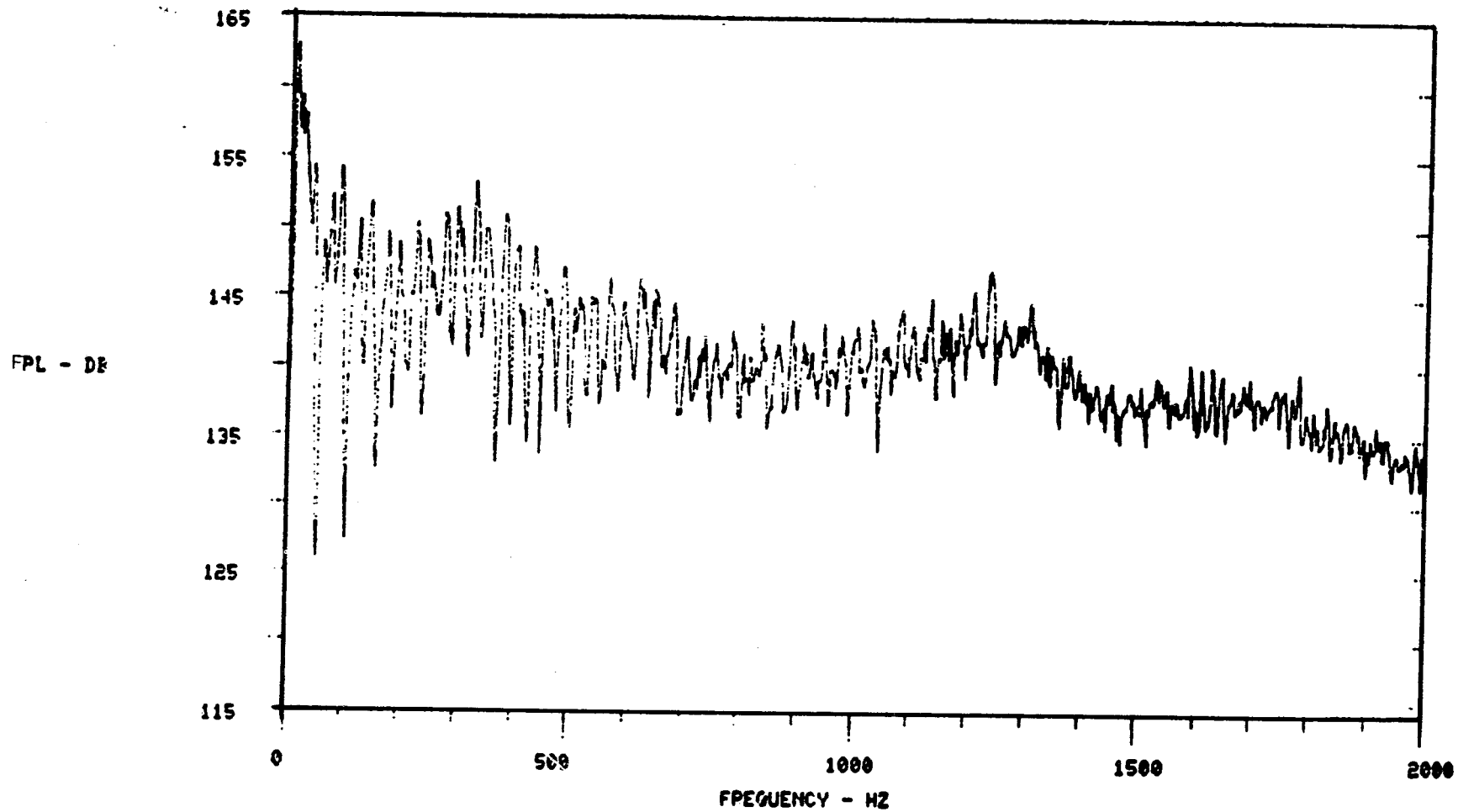
FPL - DB



KULITE 19
RDG NO 561
FAN SPEED 2770 RPM
OAFPL 173.7 DB

RUN NO 7
x THRUST=45.57
O/S 1./ 2.0000
35/8R 4096/ 8192

CF6-50 CORE NOISE PROGRAM.



KULITE 20
RDG NO 561
FAN SPEED 2770 RPM
OAFPL 174.5 DB

III

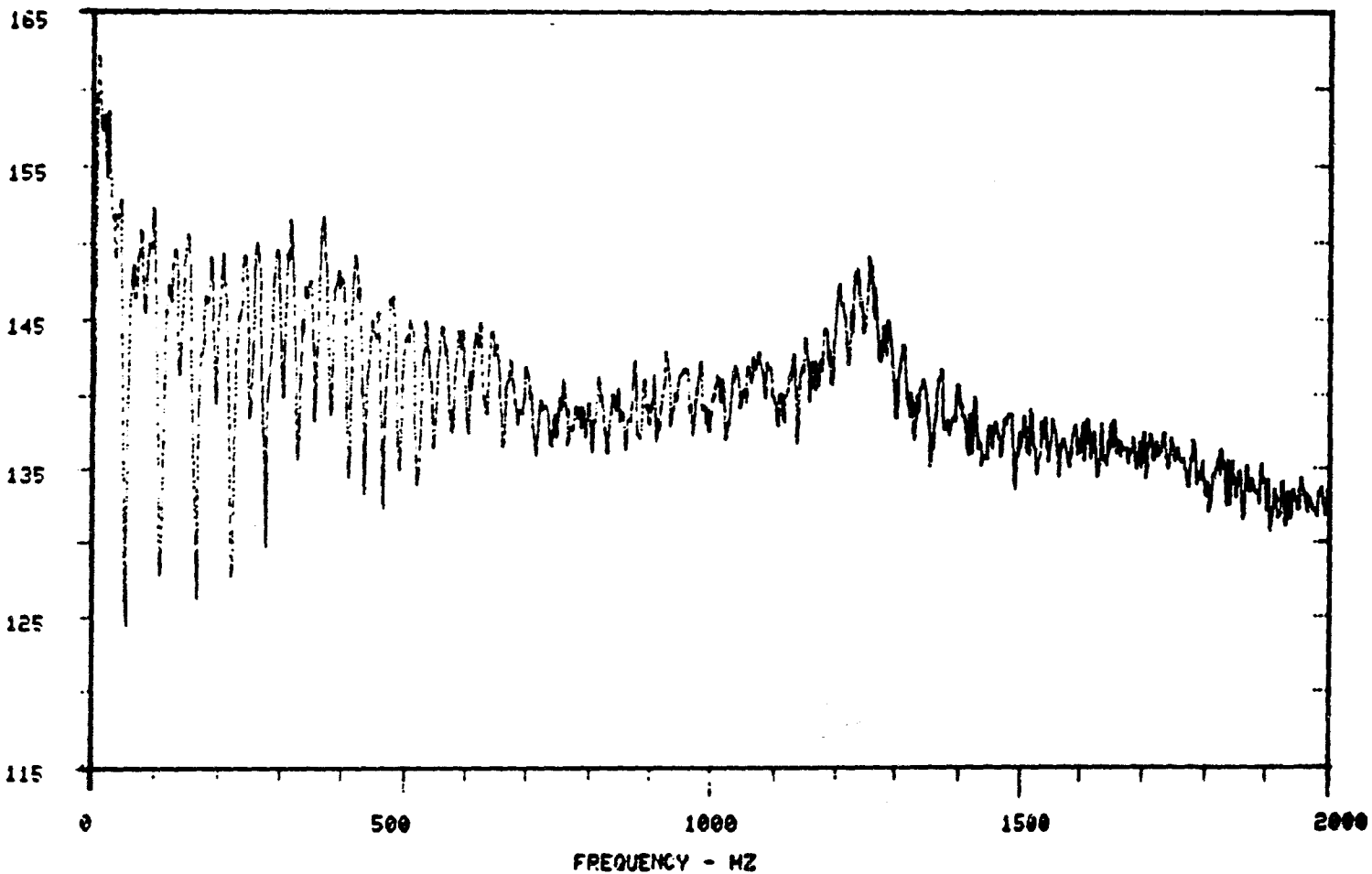
RUN NO 7
X THRUST=45.57
0/5 1./ 2.00000
BS/SR 4096/ 8192

112

CF6-50 CORE NOISE PROGRAM.

FPL - DB

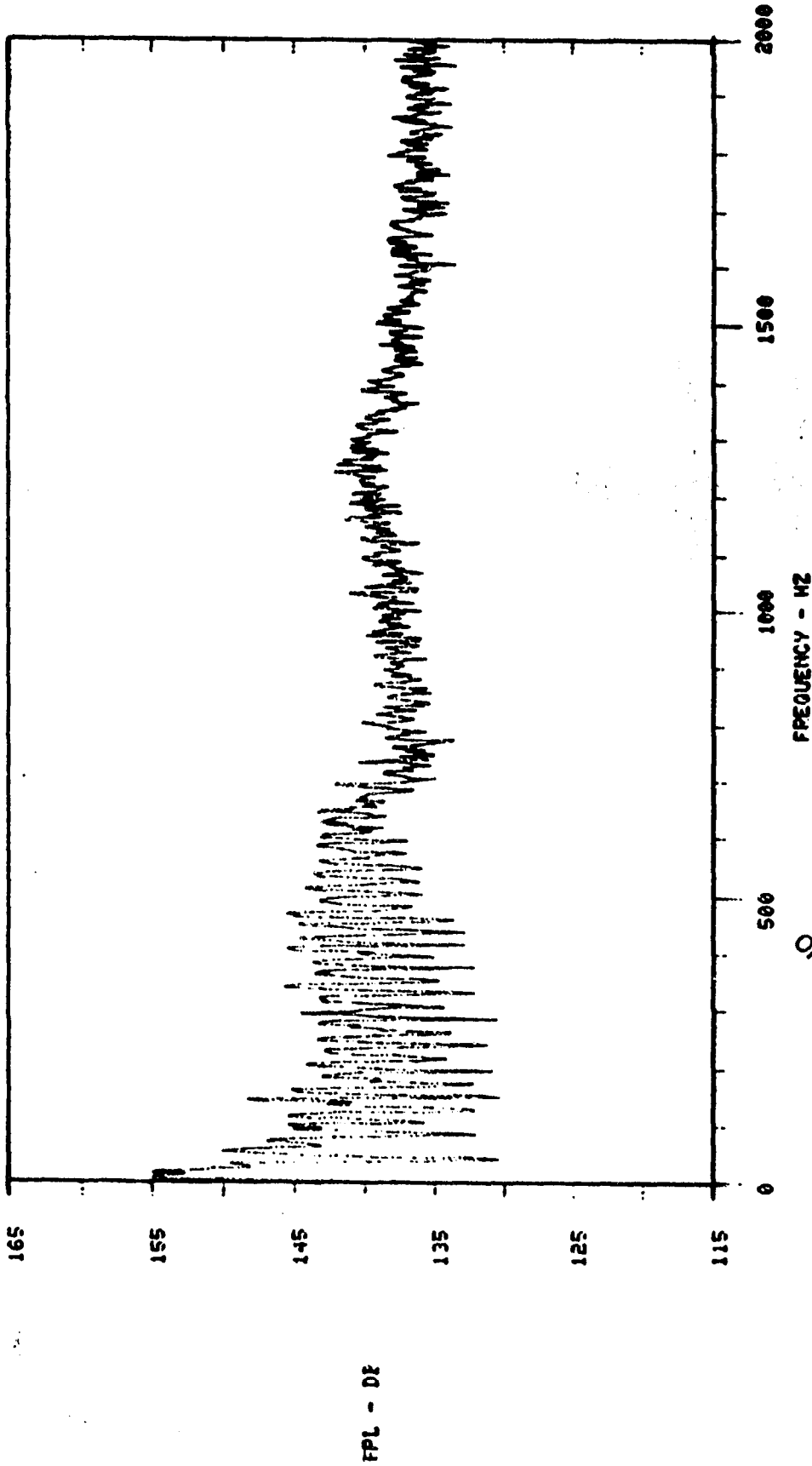
ORIGINAL PAGE IS
OF POOR QUALITY



KULITE 21
RDG NO 561
FAN SPEED 2770 RPM
OAFPL 174.2 DB

RUN NO 7
% THRUST=45.57
Q/S 1./ 2.00000
BS/SR 4096/ 8192

CF6-50 CORE NOISE PROGRAM.



KULITE 22
RNG NO 561
FAN SPEED 2770 RPM
OAFPL 170.7 DB

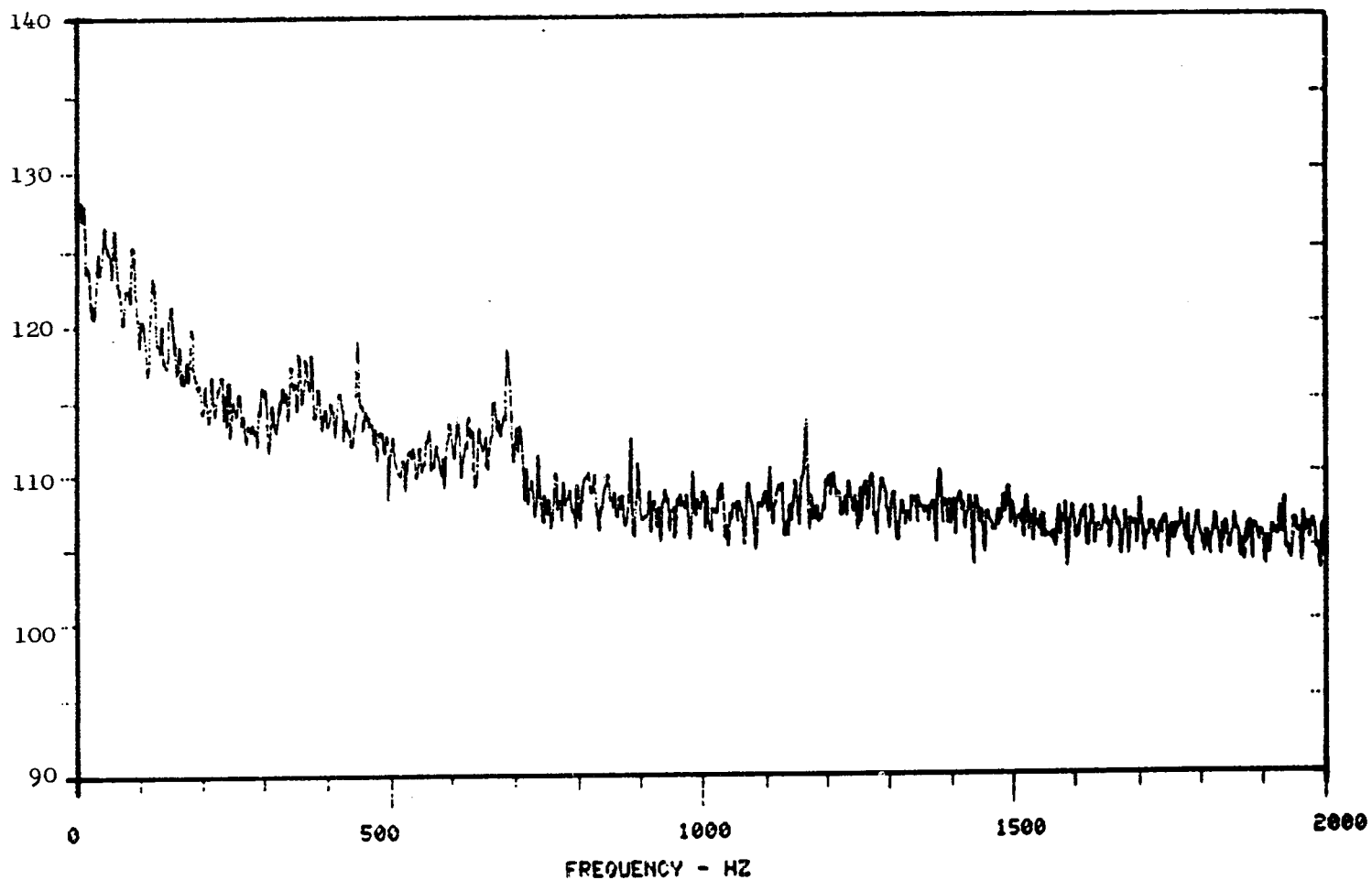
RUN NO 7
X THRUST=45.57
O/S 1.7 5.00000
BS/SR 4036/ 3192

ORIGINAL PAGE IS
OF POOR QUALITY

114

CF6-50 CORE NOISE PROGRAM

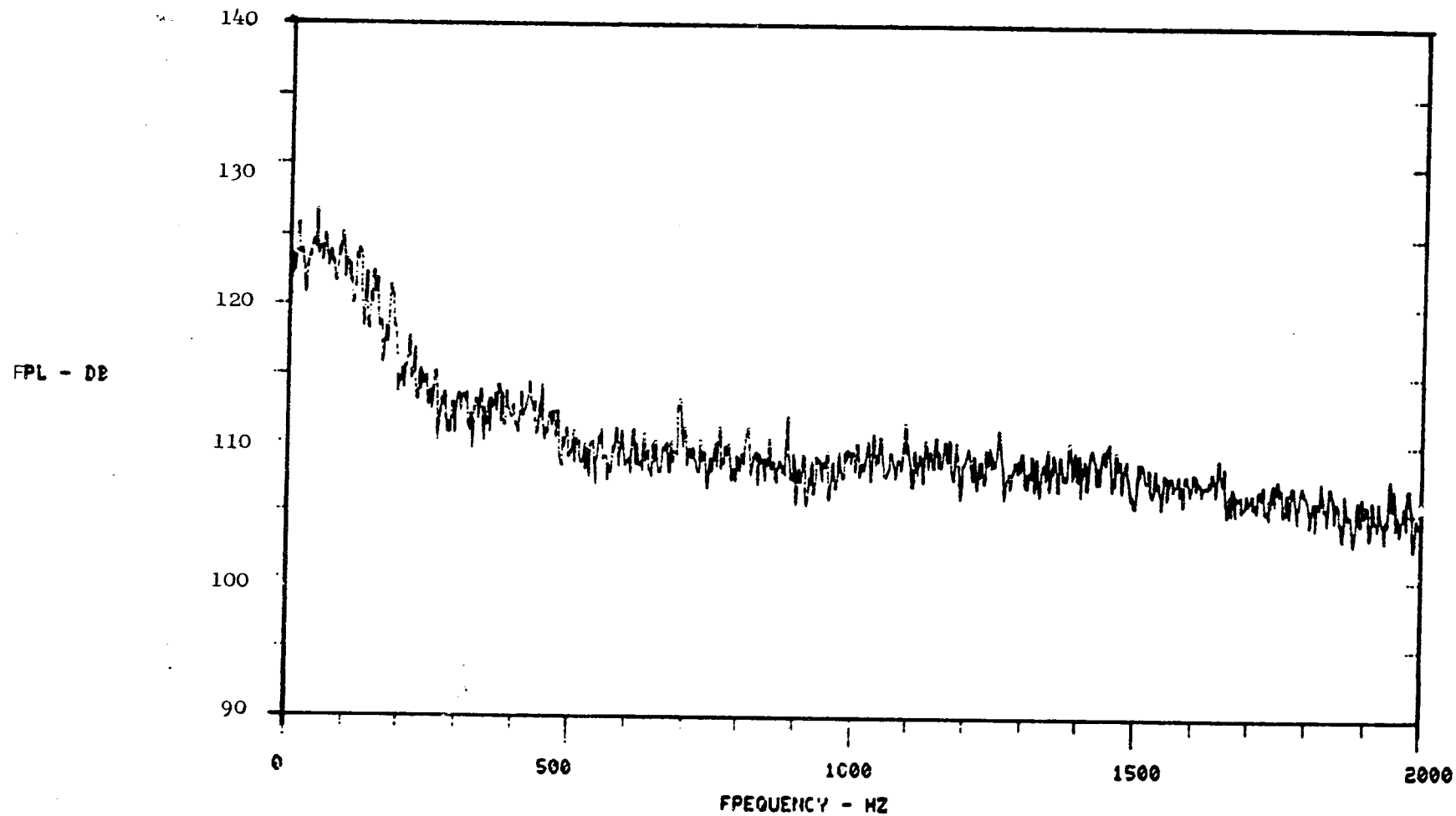
FPL - DE



KULITE 24
RDG NO 561
FAN SPEED 2770 RPM
OAFPL 144.3 DB

RUN NO 7
X THRUST=45.57
G/S 1./ 5.00000
BS/SR 4096/ 8192

CF6-50 CORE NOISE PROGRAM



KULITE 26
RDG NO 561
FAN SPEED 2770 RPM
OAFPL 144.0 DB

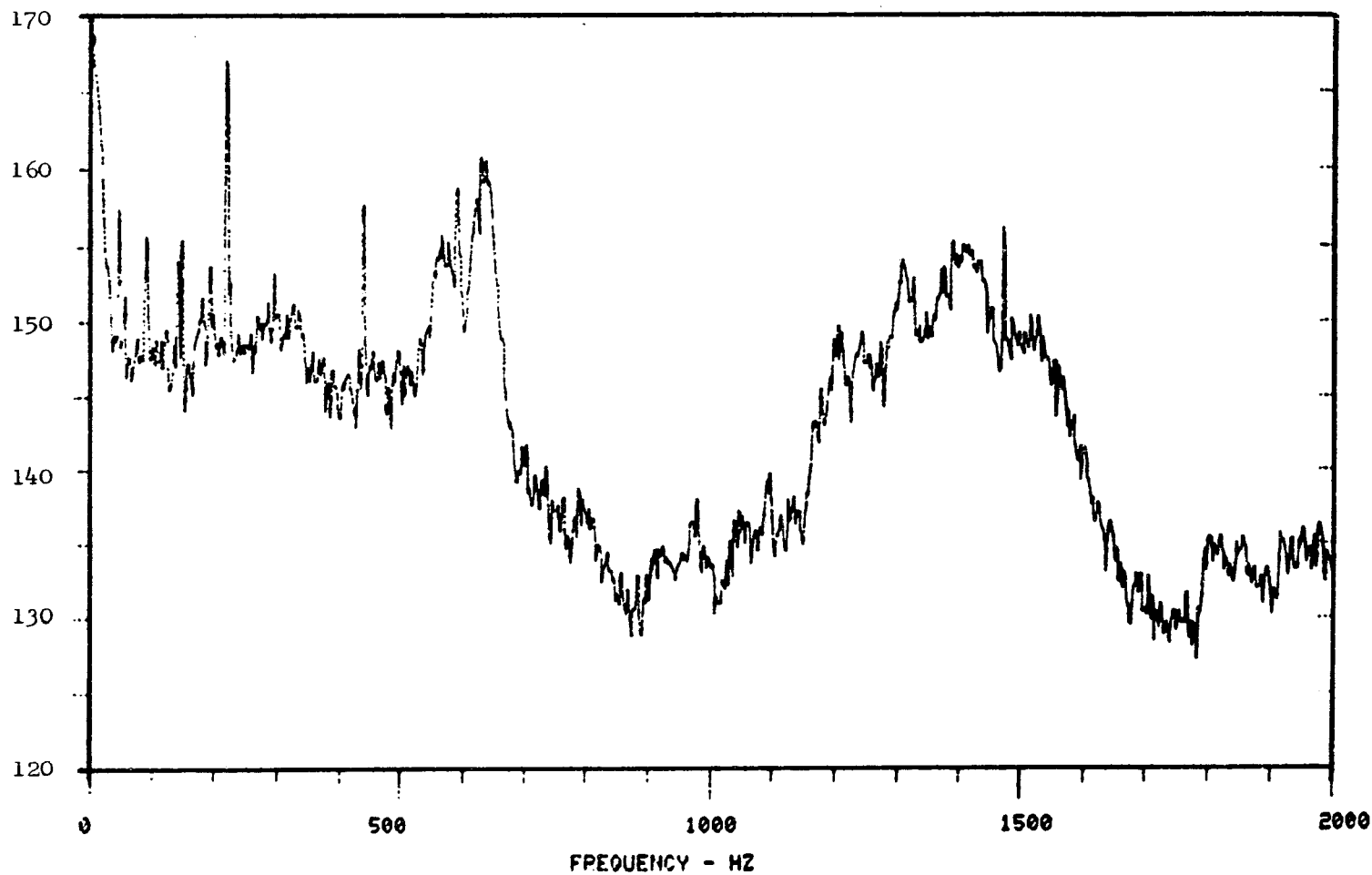
115

RUN NO 7
X THRUST=45.57
Q/S 1./ 2.00000
BS/SR 4096/ 8192

116

CF6-50 CORE NOISE PROGRAM

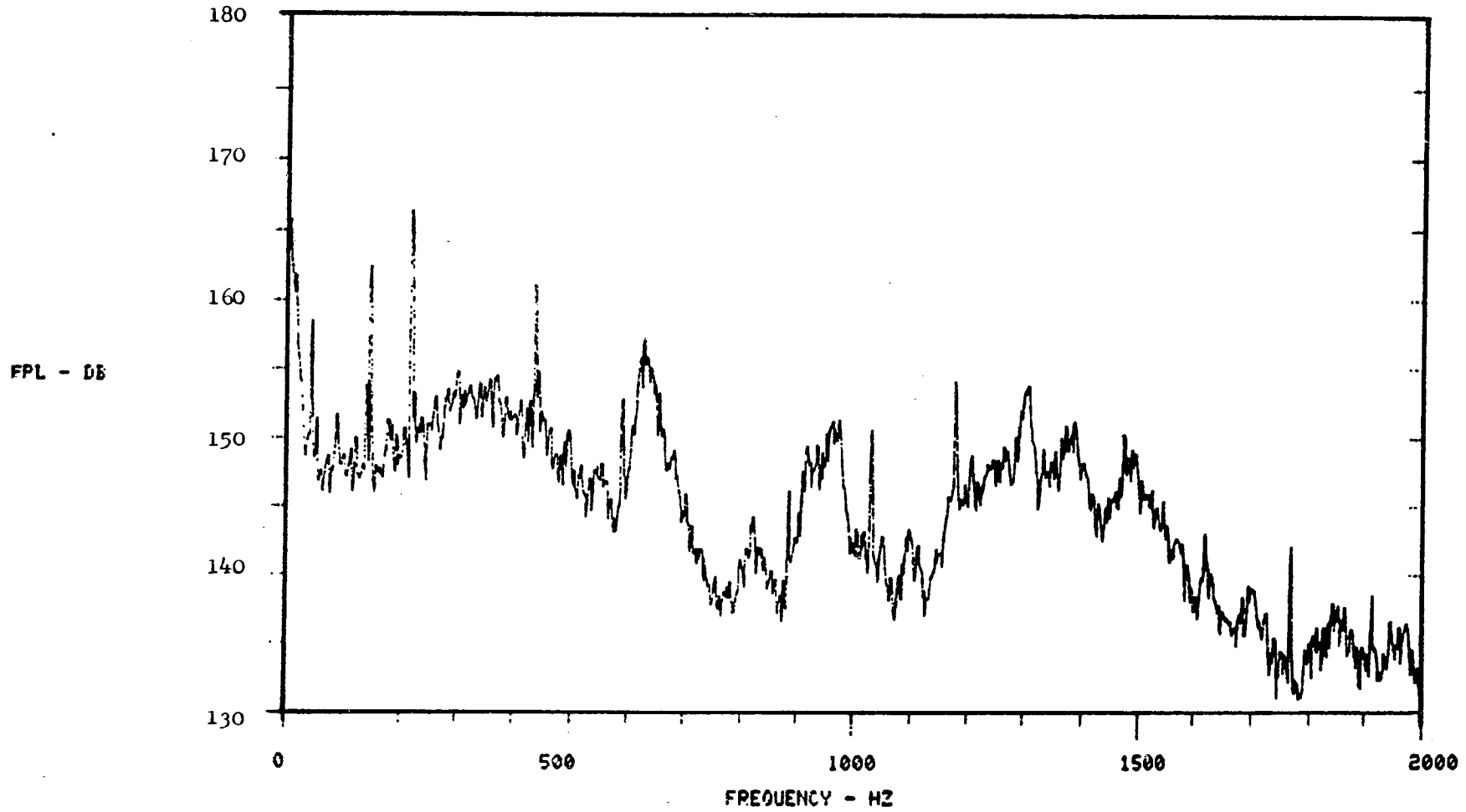
FPL - DB



KULITE 23
RDG NO 561
FAN SPEED 2770 RPM
CAFPL 180.7 DB

PWR NO 7
X THRUST-45.57
Q/S 1. / 1.00000
BS/SR 4096/ 8192

CF6-50 CORE NOISE PROGRAM



KULITE 25
RDG NO 561
FAN SPEED 2770 RPM
OAFPL 179.7

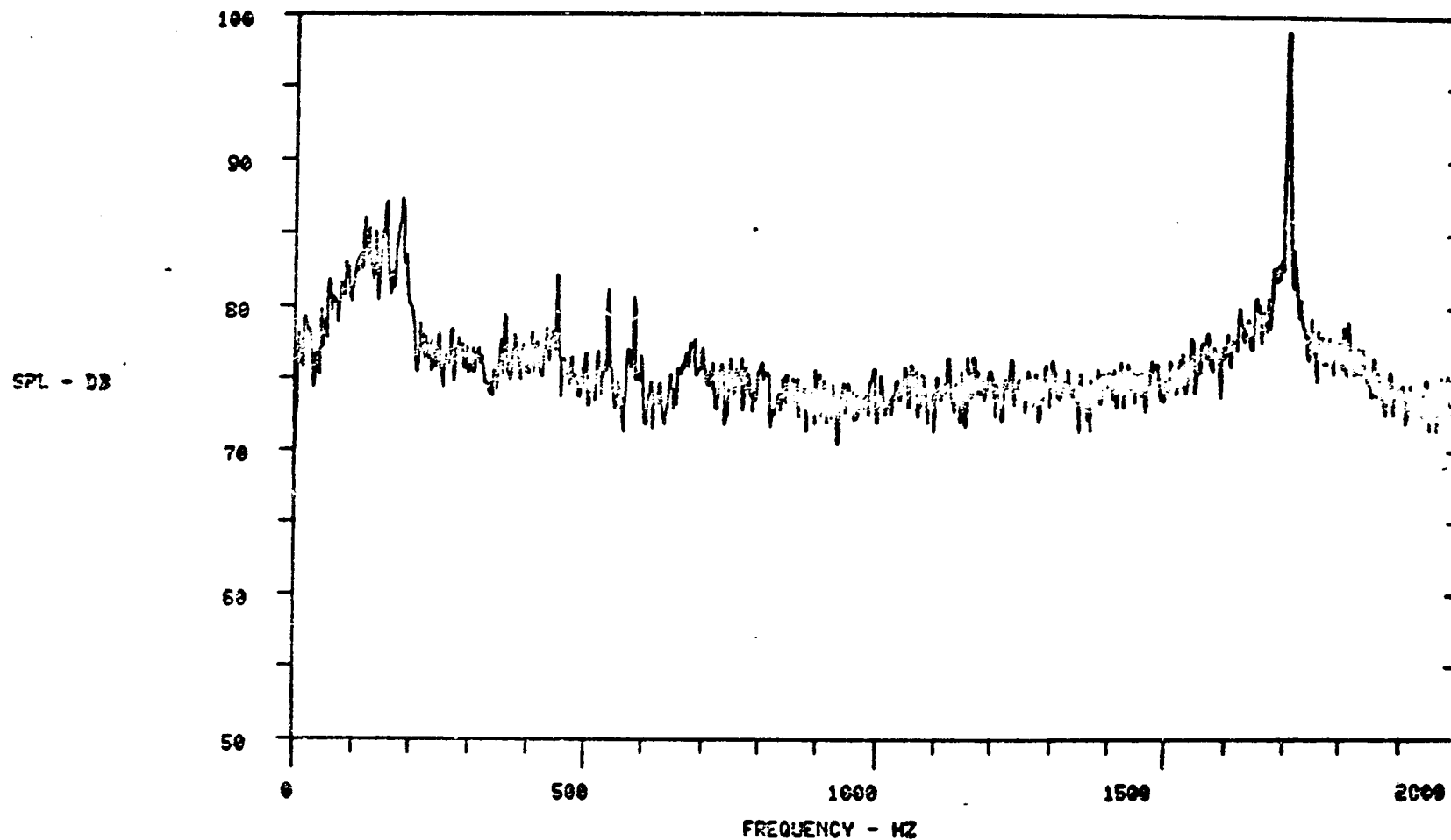
117

ORIGINAL PAGE IS
OF POOR QUALITY

RUN NO 7
X THRUST=45.57
G/S 1./ 0.50000
BS/SR 4096/ 8192

118

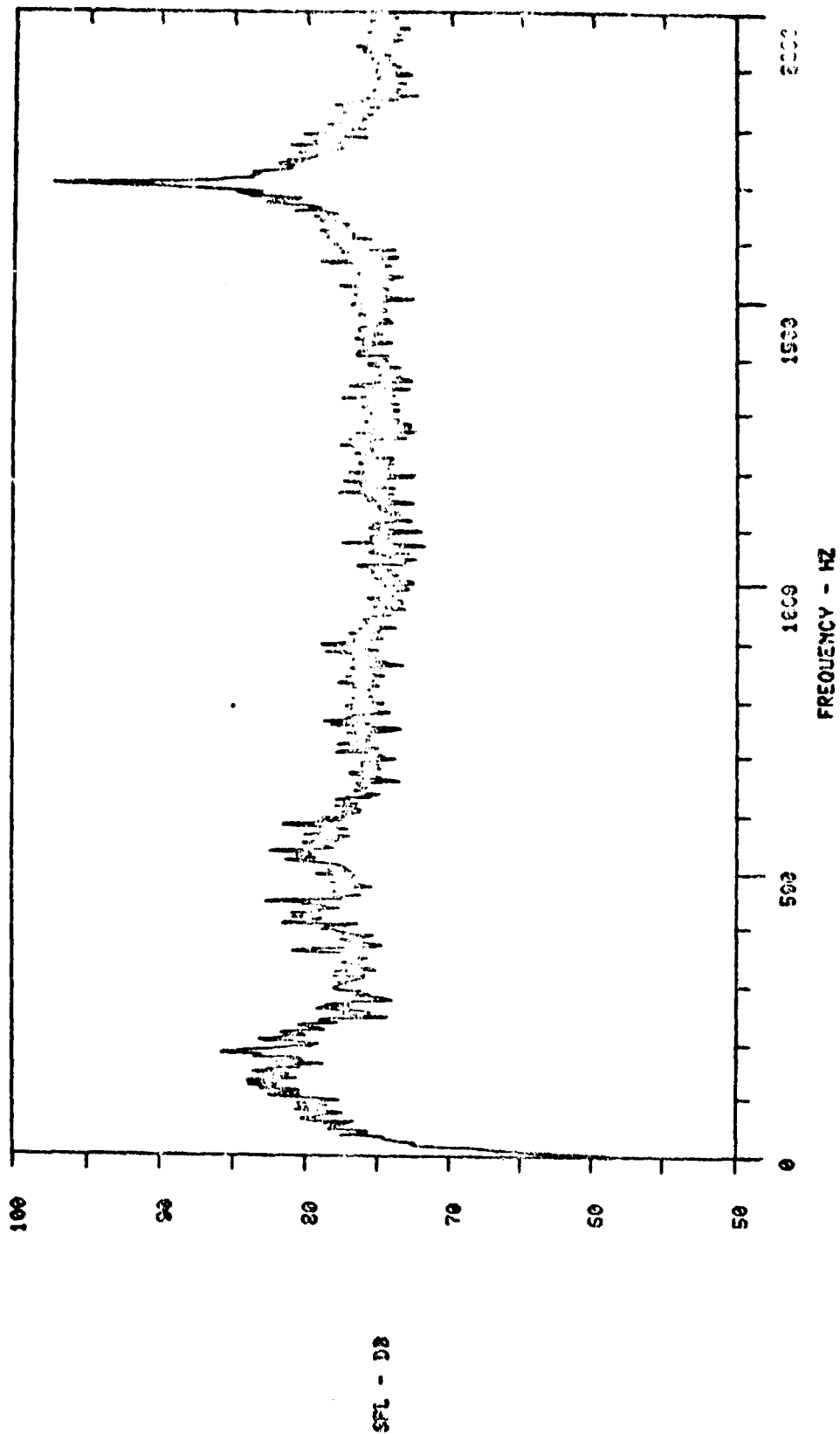
CF6-50 CORE NOISE PROGRAM.



RIC 10 DEG
RDS NO 561
FAN SPEED 2770 RPM
CASPL 108.8 DB

RUN NO 7
% THRUST=45.57
O/S 1./ 0.6335
BS/SR 4096/ 8163

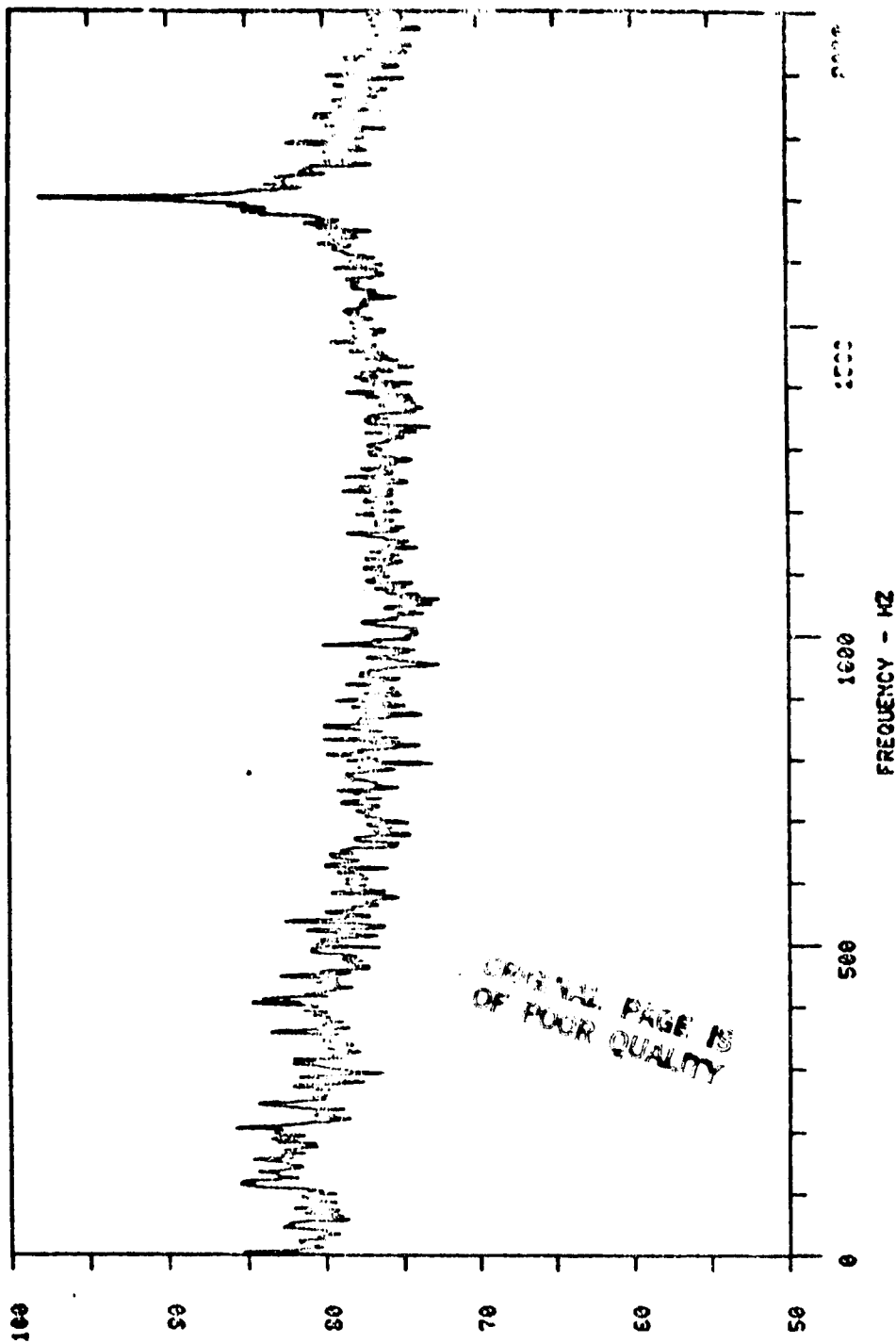
CF6-50 CORE NOISE PROGRAM.



RIC 30 DEG
RDG NO 561
FAX SPEED 2770 RPM
OACPL 103.8 DB
119

RUN NO 7
* TRCOUNT=45.57
O/S 1.7 0.00003
85/SR 4003/ 0:02

CF6-50 CORE NOISE PROGRAM.



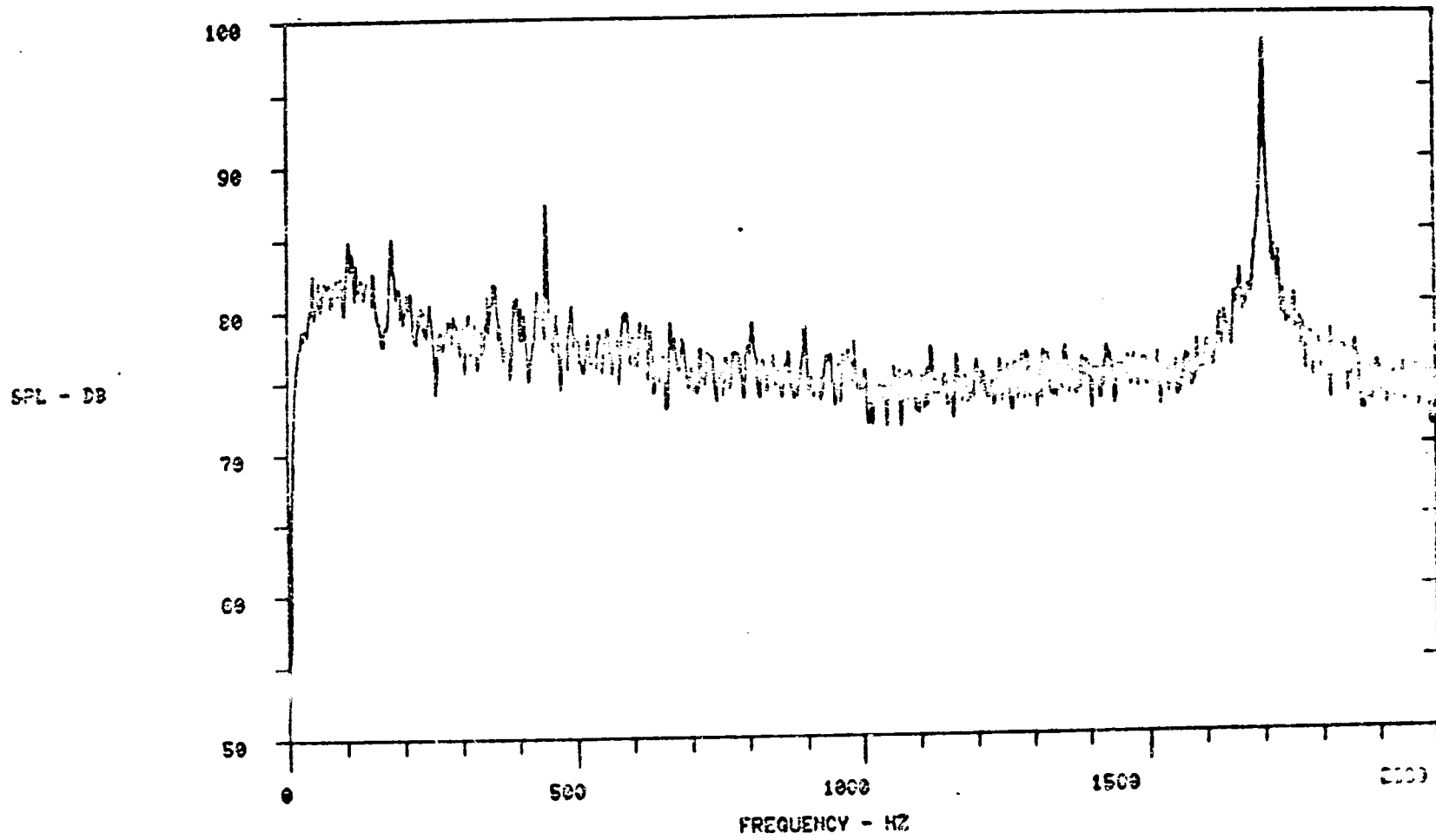
120

SPL - 33

MIC 40 DEG
RCG NO 561
FAN SPEED 2770 RPM
CASEL 109.7 DB

RUN NO 7
% THROTT-45.57
C/S 1.1/ 0.00325
B3/SR 4856/ 8132

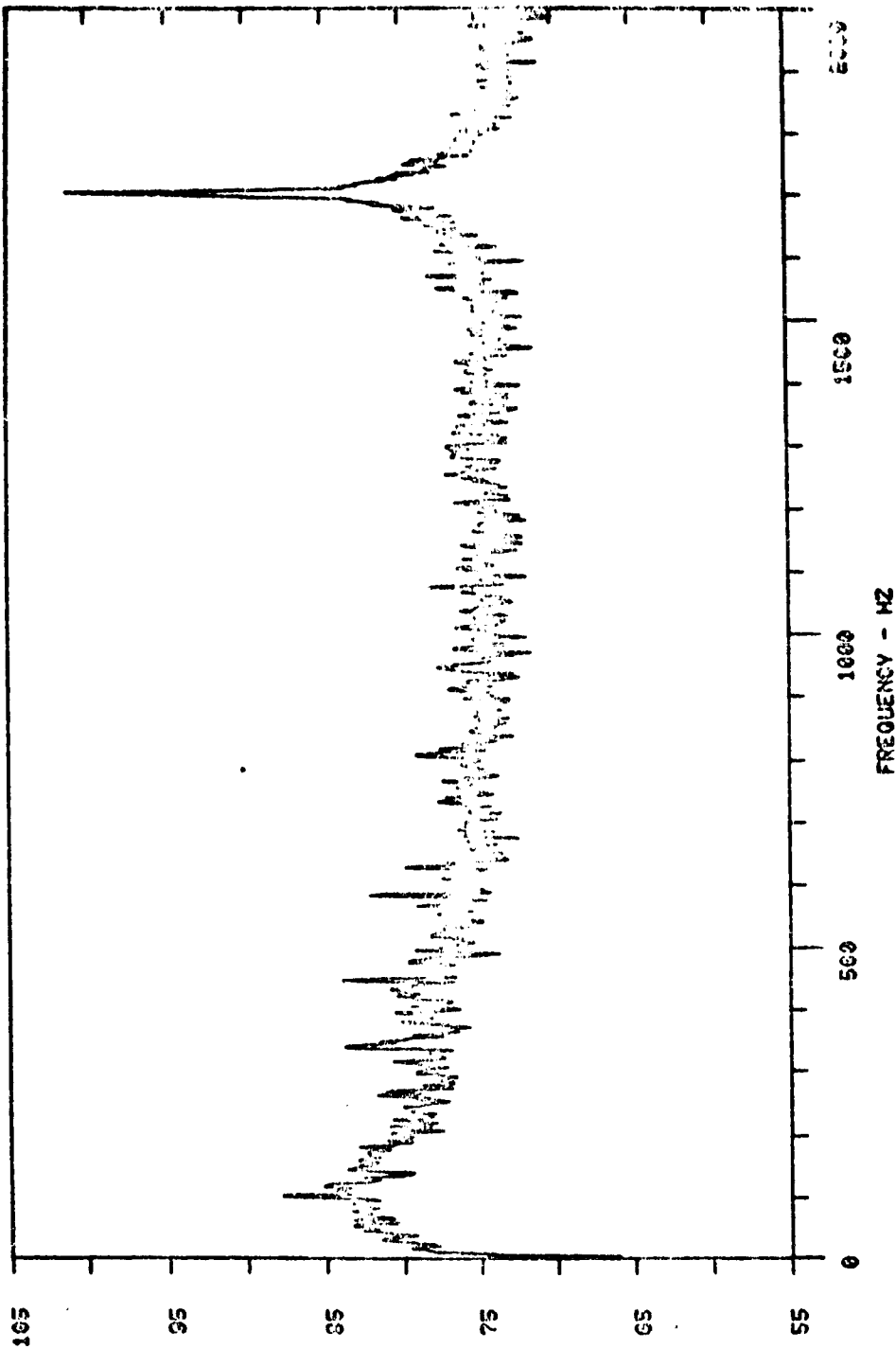
CF6-50 CORE NOISE PROGRAM.



HIC 50 DEG
REG NO 751
FAN SPEED 2770 RPM
OASPL 103.9 DB
121

RUN NO 7
% THRUST 45.57
Q/S 1. / 0.00005
29/63 4033/ 8183

CF6-50 CORE NOISE PROGRAM.



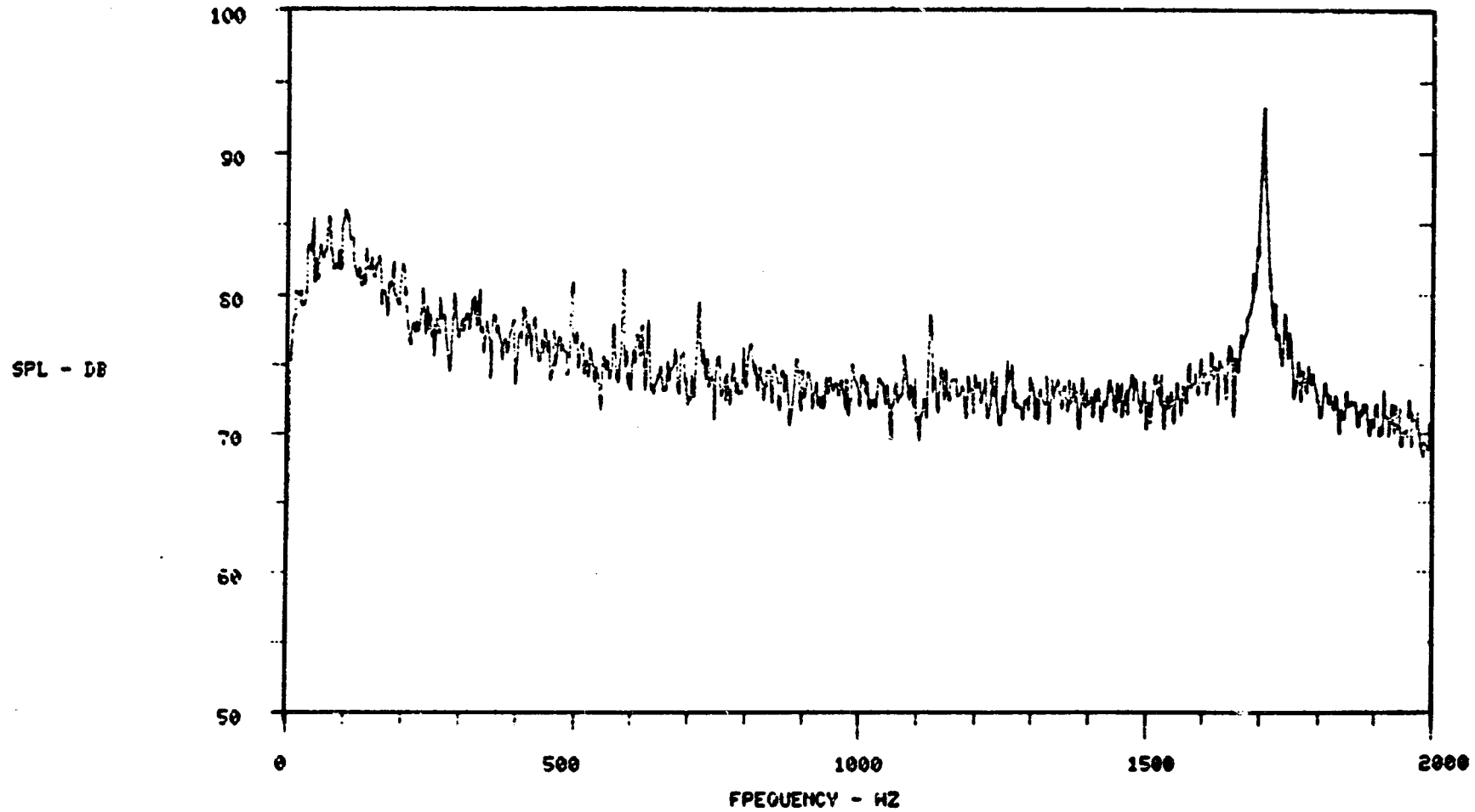
SPL - DB

ORIGINAL PAGE IS
OF POOR QUALITY

RIC 60 DEG
RDC NO 561
FAN SPEED 2770 RPM
ORCL 169.5 DB

RUN NO 7
* TRUST=45.67
Q/S 1.7 0.20325
BS/SR 4650/ 0108

CF6-50 CORE NOISE PROGRAM



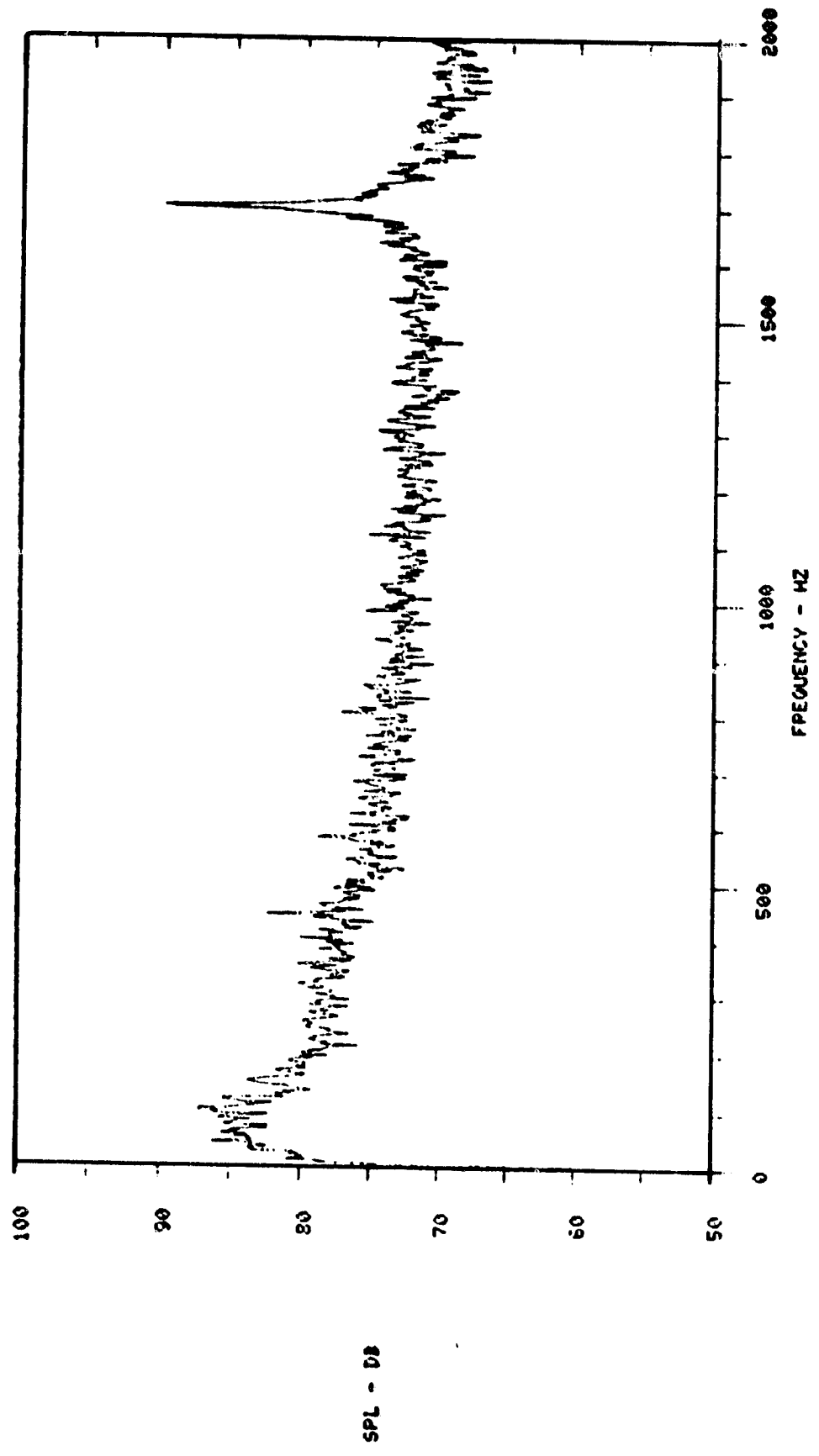
MIC 70 DEG
RDG NO 561
FAN SPEED 2770 RPM
OASPL 107.1 DB

123

RUN NO 7
% THRUST=45.57
G/S 1./ 0.00325
3S/SR 4096/ 8192

CF6-50 CORE NOISE PROGRAM

124

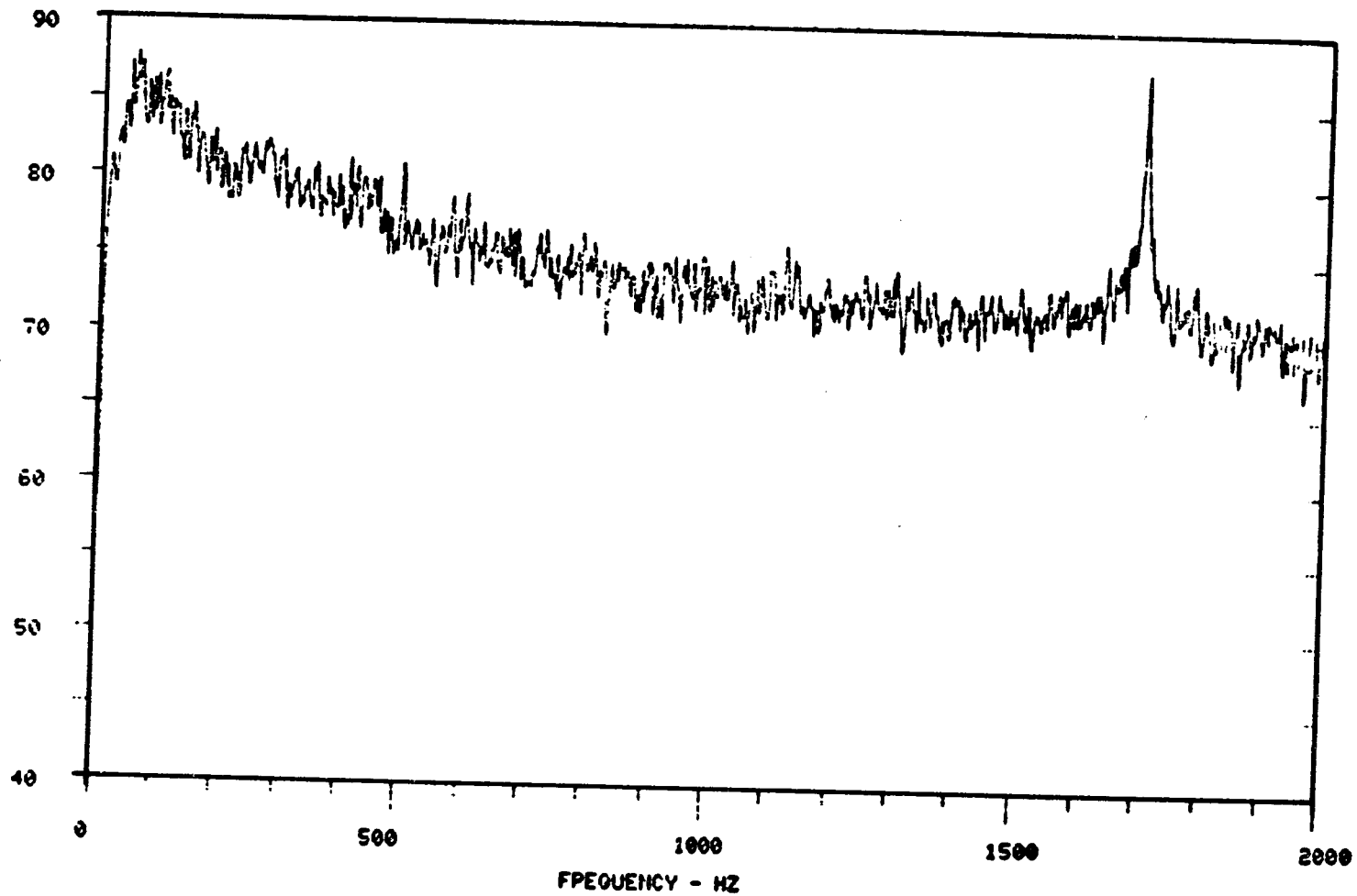


MIC 80 DEG
RDG NO 561
FAN SPEED 2770 RPM
OASPL :06.7 DB

RUN NO 7
X THRUST=45.57
G/S 1.7 0.00103
BS/SR 4096/ 8192

CF6-50 CORE NOISE PROGRAM

SPL - DB

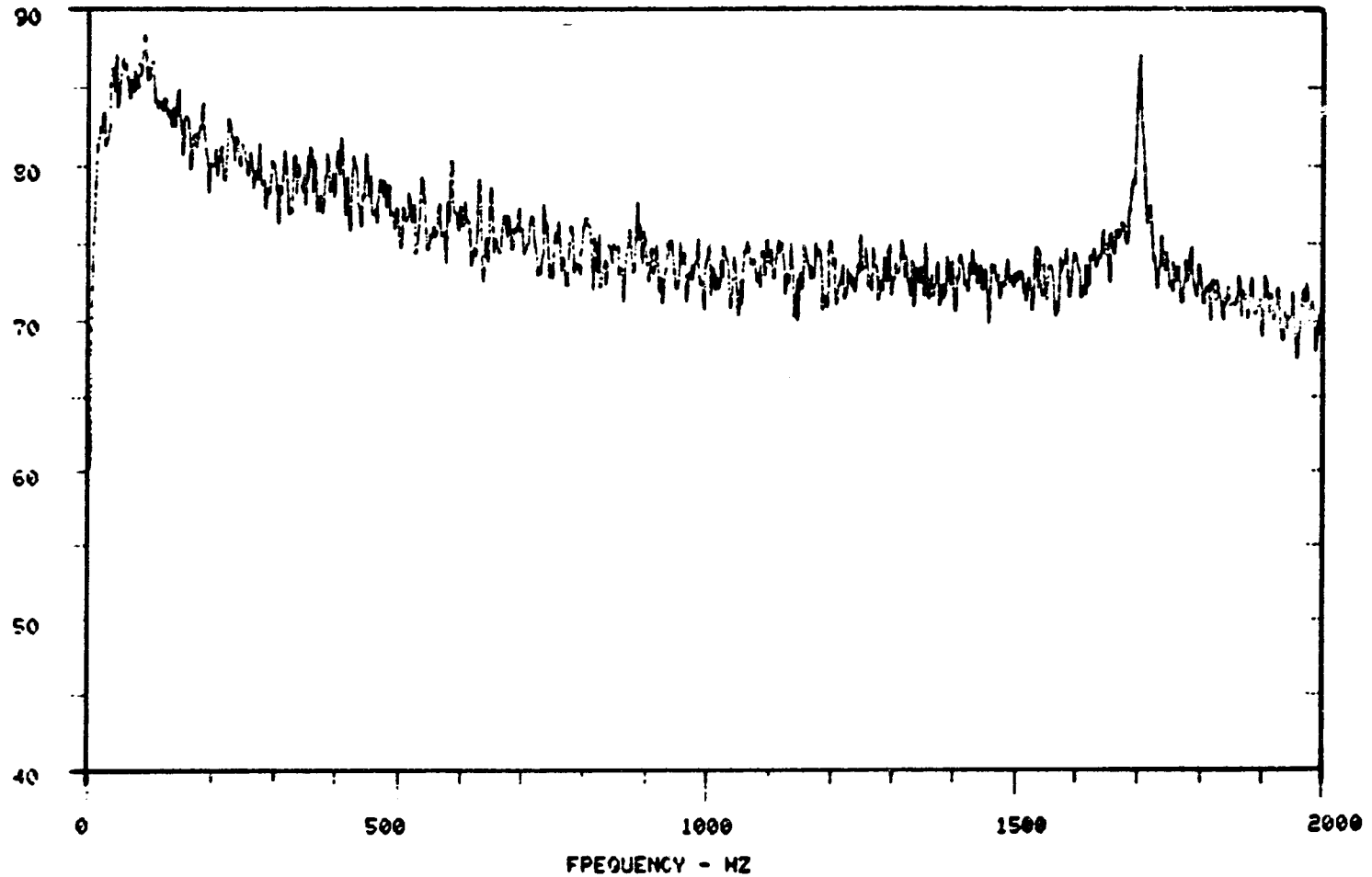


MIC 90 DEG
RDG NO 561
FAN SPEED 2770 RPM
OASPL 107.2 DB
125

RUN NO 7
% THRUST=45.57
G/S 1. / 0.00103
BS/SR 4036/ 8192

126

CF6-50 CORE NOISE PROGRAM



SPL - DB

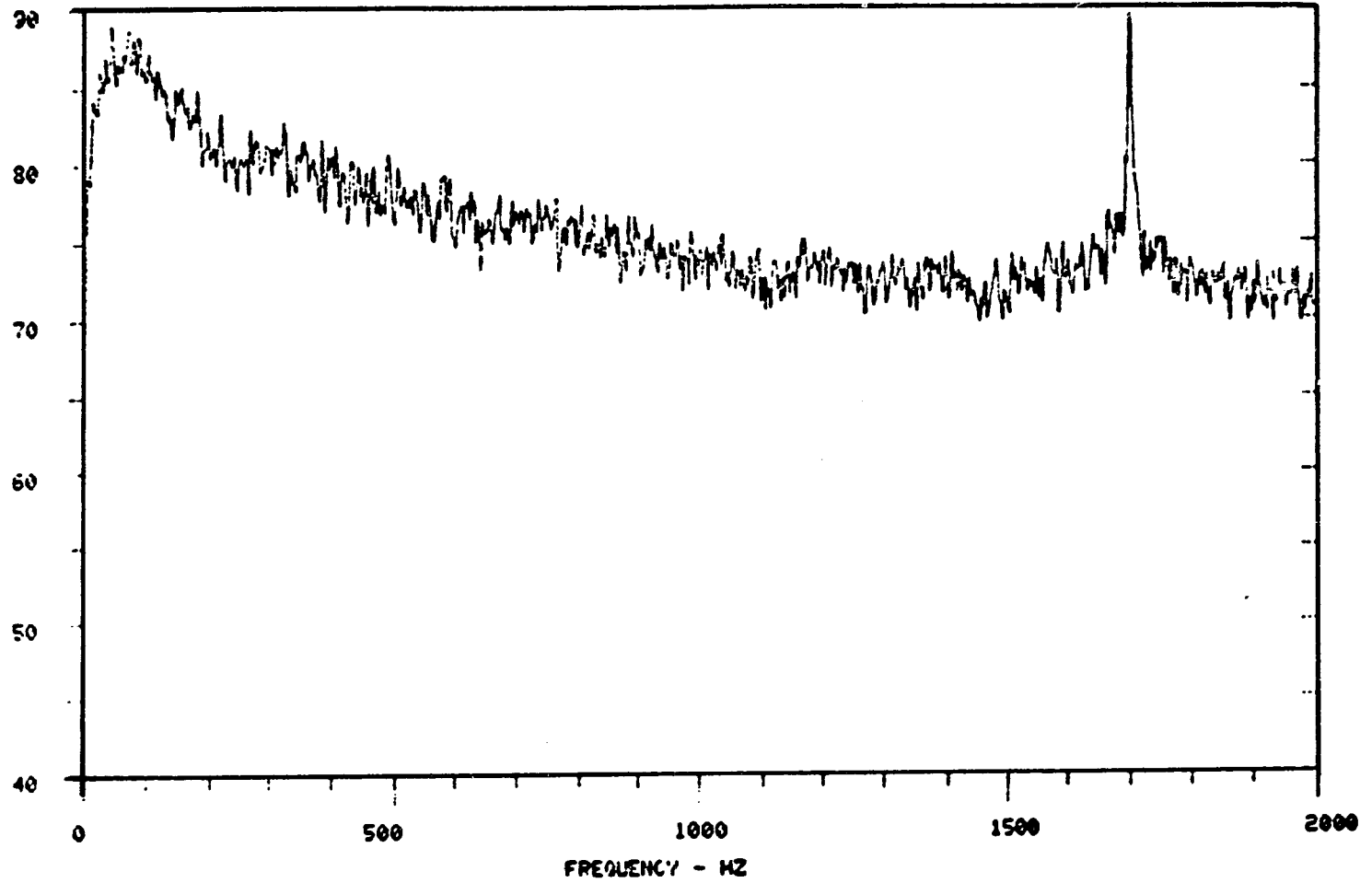
ORIGINAL PAGE IS
OF POOR
QUALITY

MIC 100 DEG
RDG NO 561
FAN SPEED 2770 RPM
OASPL 107.7 DB
RECORD 1.6 SEC
PAUSE -- PUSH RETURN TO CONTINUE

RUN NO 7
X THRUST=45.57
G/S 1. / 0.00103
BS/SR 4096 / 8192

CF6-50 CORE NOISE PROGRAM

SPL - DB



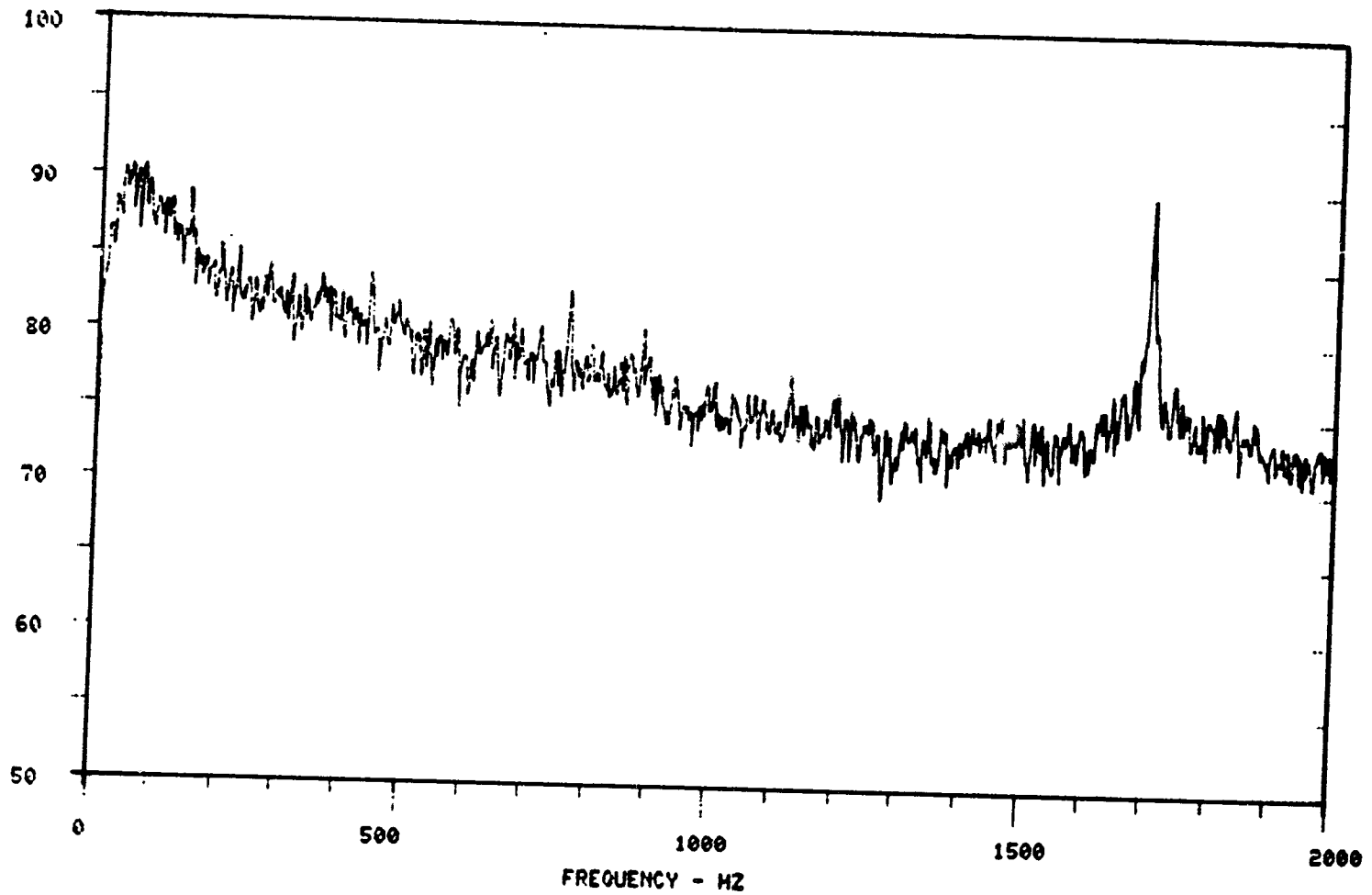
MIC 110 DEG
RDG NO 561
FAN SPEED 2770 RPM
OASPL 108.5 DB
127

RUN NO 7
* THRUST=45.57
G/S 1. / 0.00103
BS/SR 4096 / 8192

128

CF6-50 CORE NOISE PROGRAM.

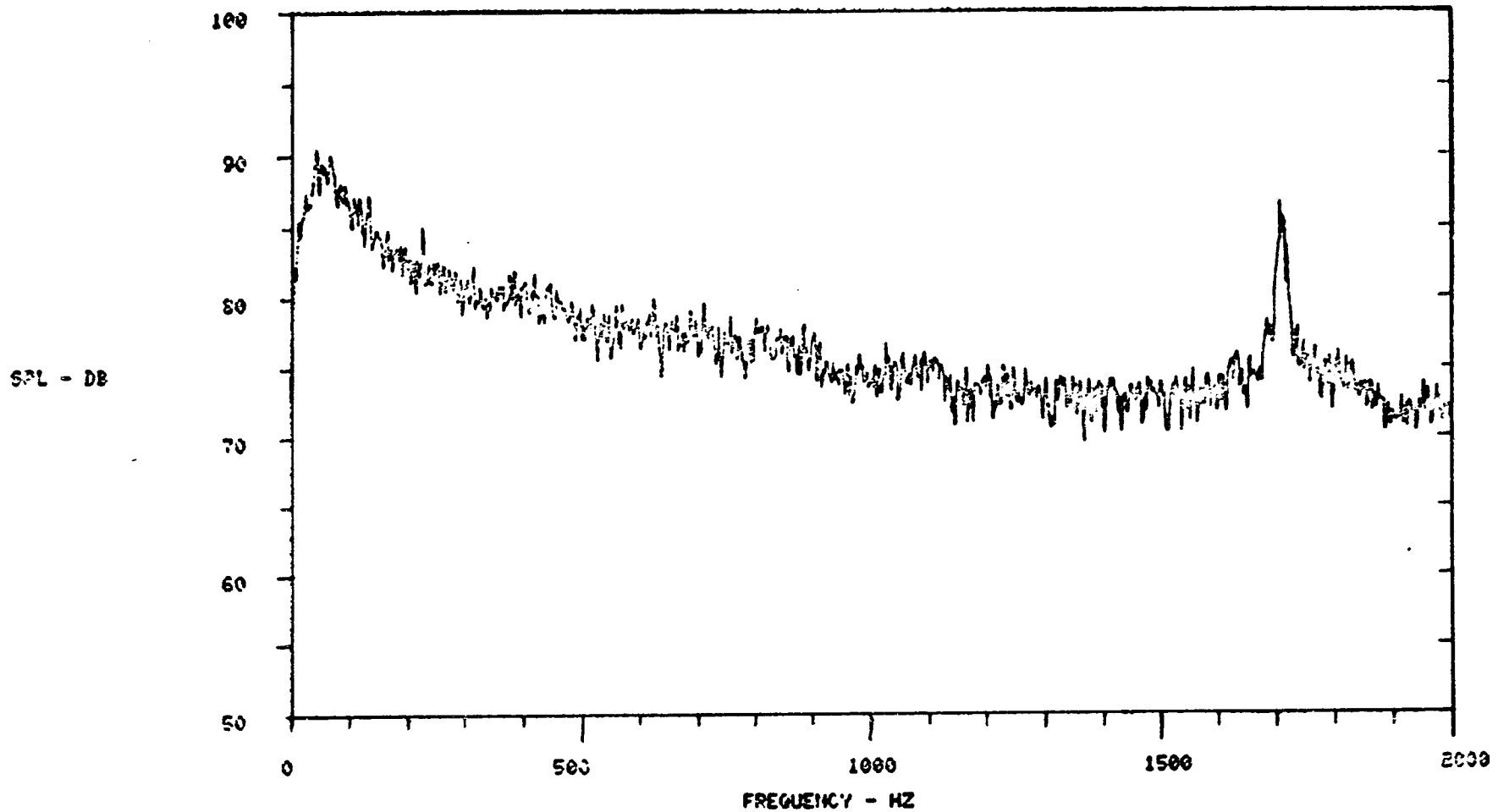
SPL - DB



MIC 120 DEG
RDG NO 561
FAN SPEED 2770 RPM
OASPL 110.1 DB

PUN NO 7
X THRUST=45.57
Q/S 1. / 0.00103
BS/SR 4096 / 8192

CF6-50 CORE NOISE PROGRAM.



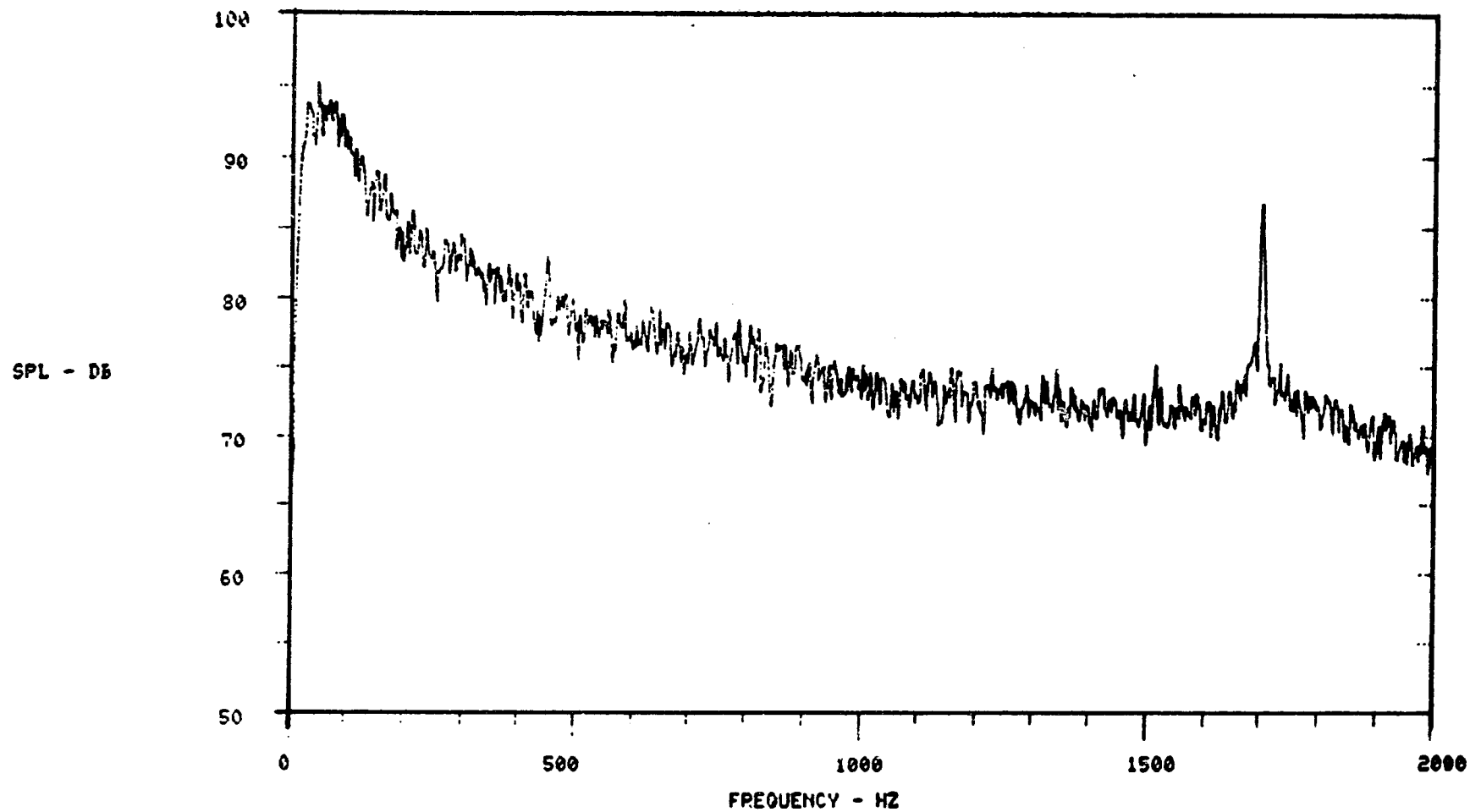
MIC 130 DEG
RDG NO 561
FAN SPEED 2770 RPM
OASPL 109.4 DB

129

RUN NO 7
X THRUST=45.57
Q/S 1. / 0.00103
BS/SR 4036/ 8102

130

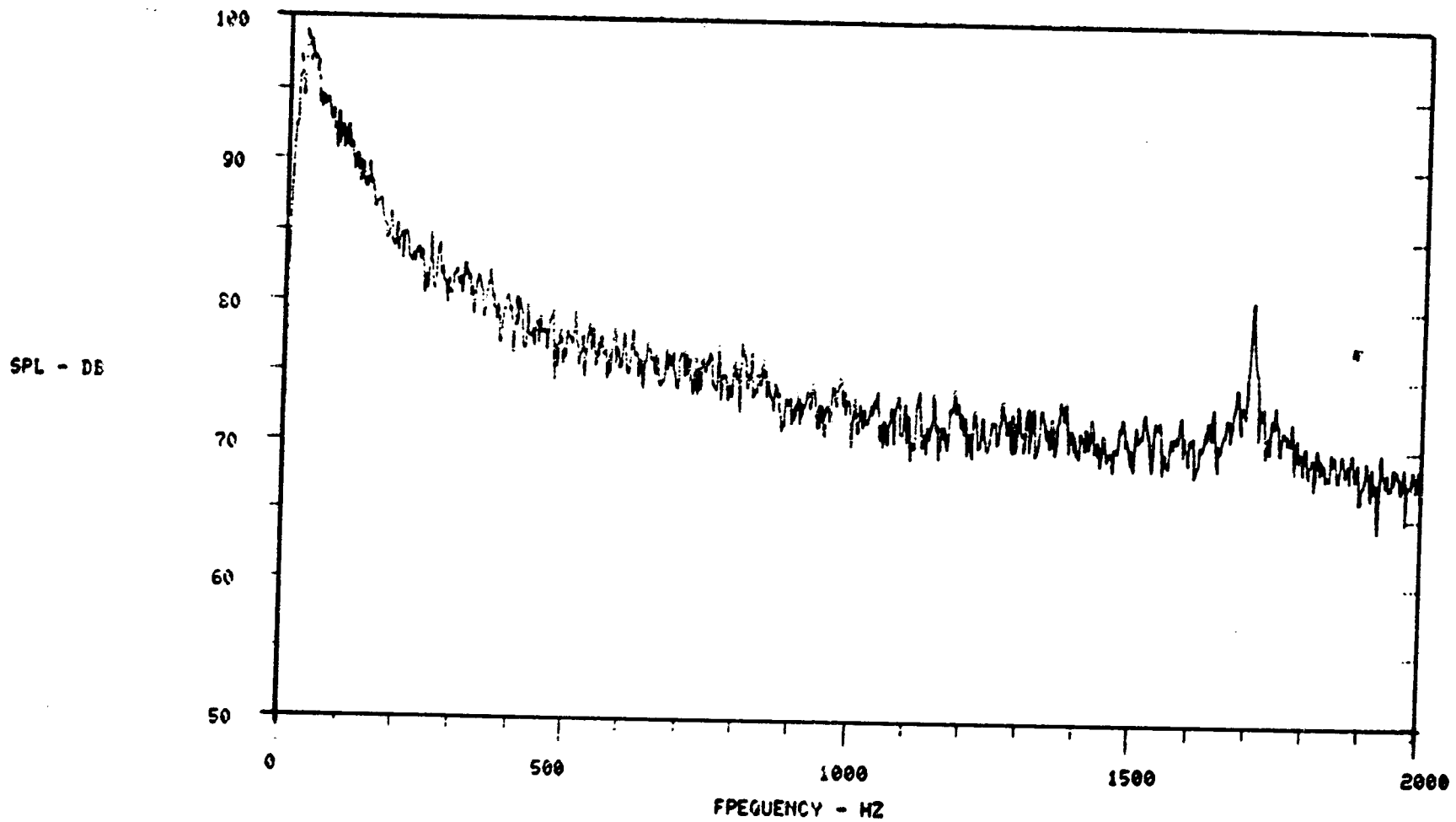
CF6-50 CORE NOISE PROGRAM.



MIC 140 DEG
RDG NO 561
FAN SPEED 2770 RPM
OASPL 111.9 DB

RUN NO 7
x THRUST=45.57
Q/S 1./ 0.00103
BS/GR 4896/ 8192

CF6-50 CORE NOISE PROGRAM.



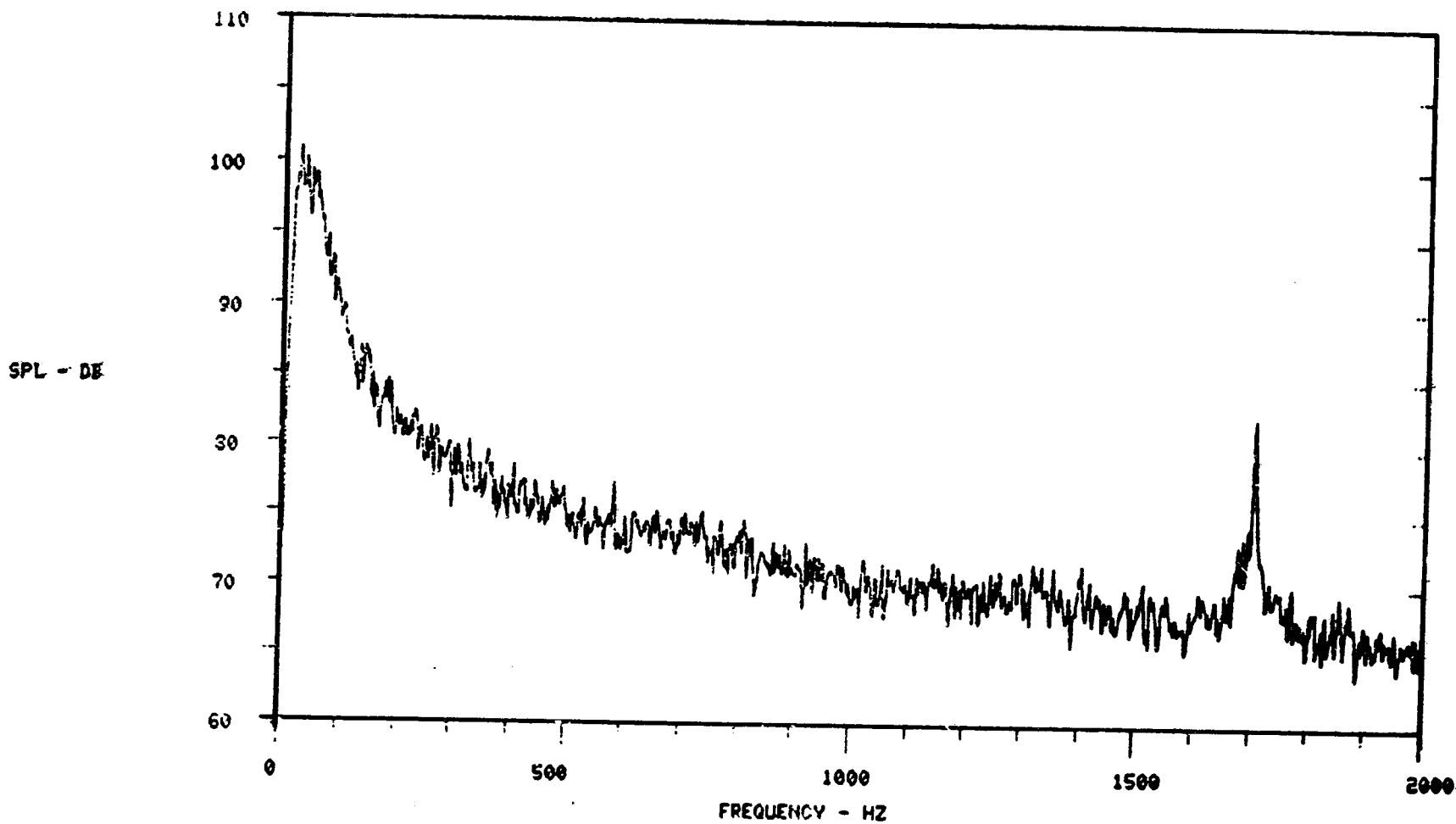
MIC 150 DEG
RDG NO 561
FAN SPEED 2770 RPM
OASPL 113.1 DB

131

RUN NO 7
* THRUST=45.57
Q/S 1./ 0.00325
BS/SR 4096/ 8192

132

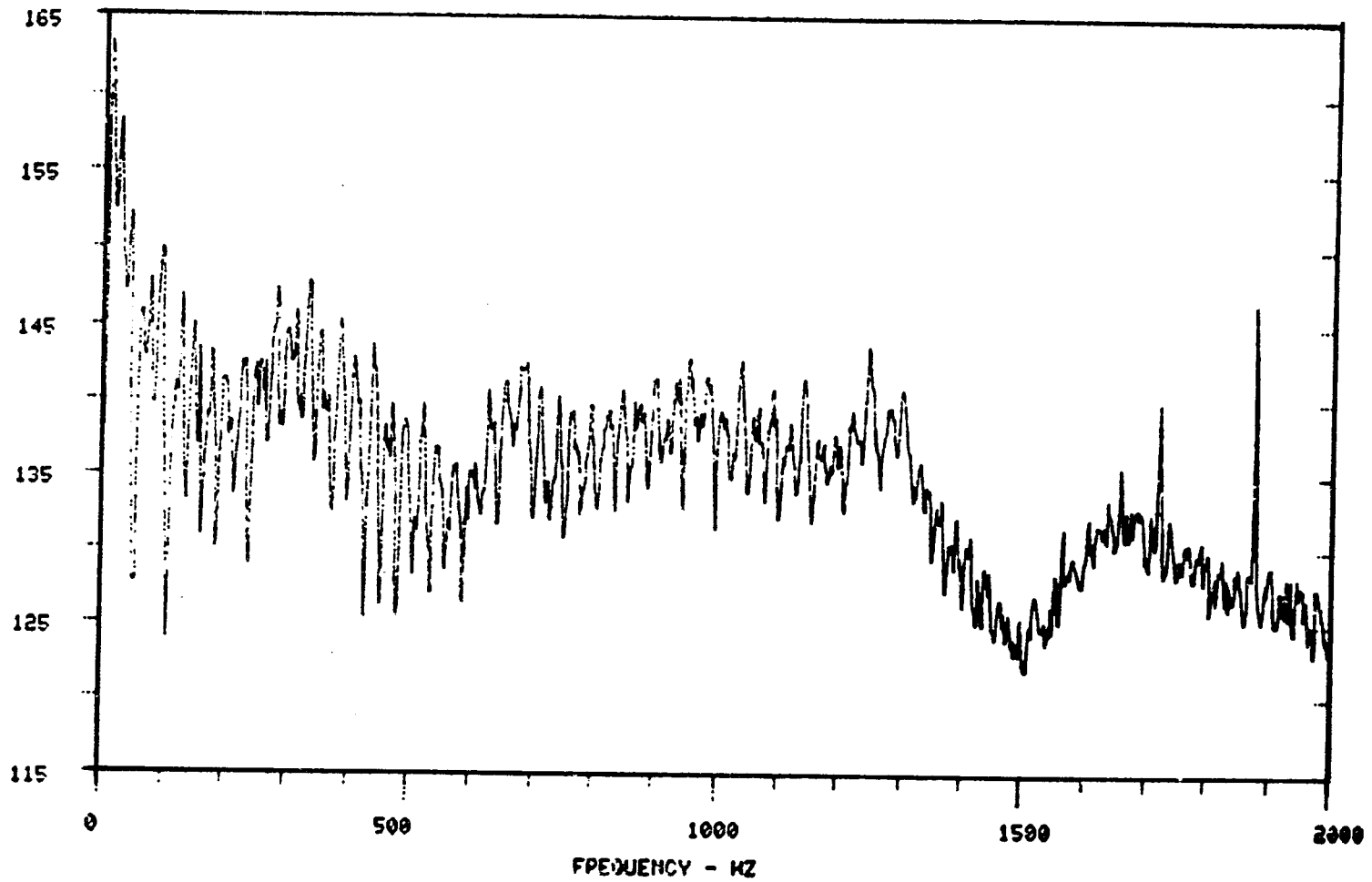
CF6-50 CORE NOISE PROGRAM.



MIC 160 DEG
RDG NO 561
FAN SPEED 2770 RPM
OASPL 114.0 DB

RUN NO 7
X THRUST=45.57
G/S 1./ 0.00335
BS/SR 4096/ 8192

CF6-50 CORE NOISE PROGRAM.



FPL - DB

ORIGINAL PAGE IS
OF POOR QUALITY

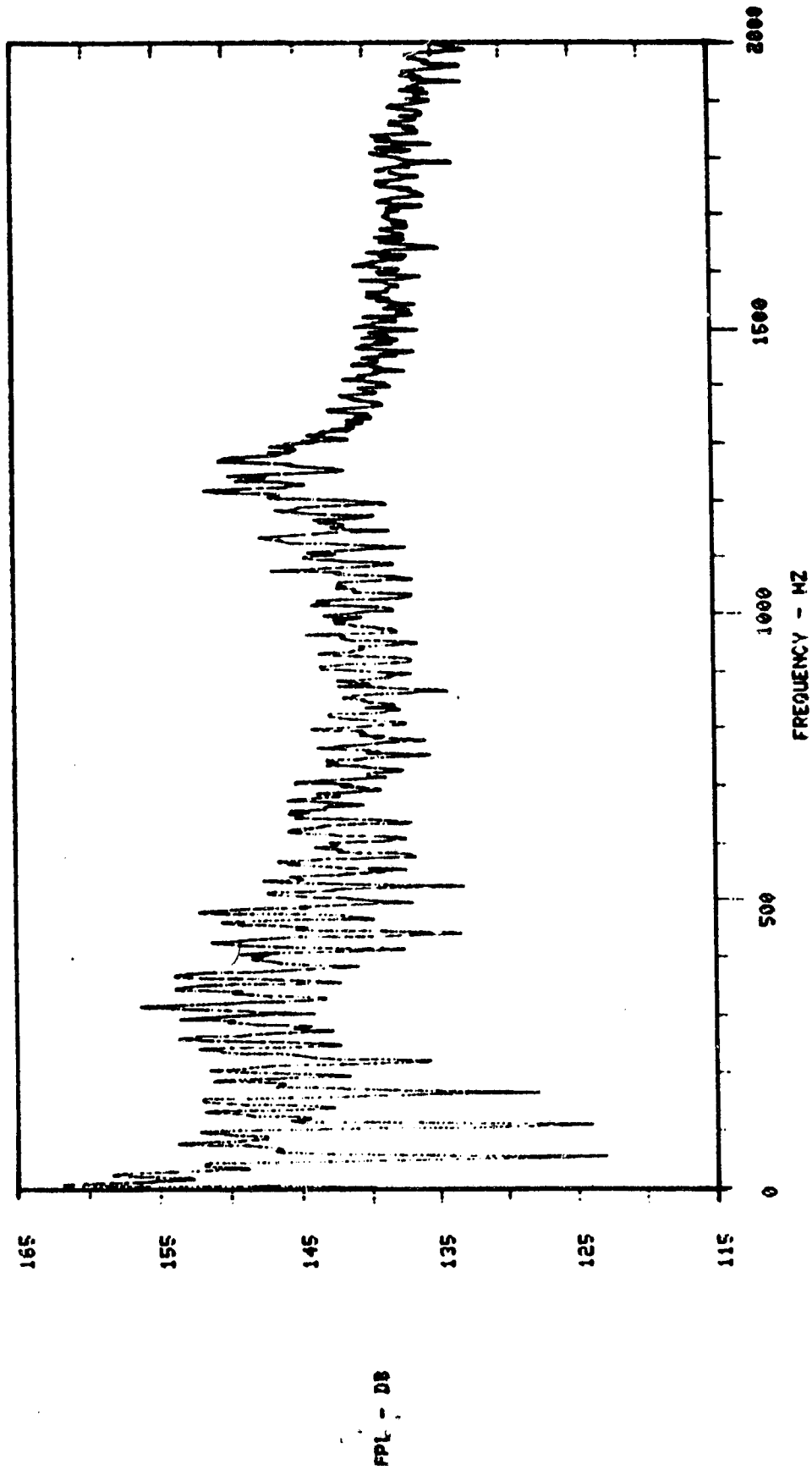
KULITE 18
RDG NO 563
FAN SPEED 3223 RPM
OAFPL 171.5 DB

133

RUN NO 1
X THRUST=67.82
G/S 1. / 5.00000
IS/SR 4096 / 8192

CF6-50 CORE NOISE PROGRAM.

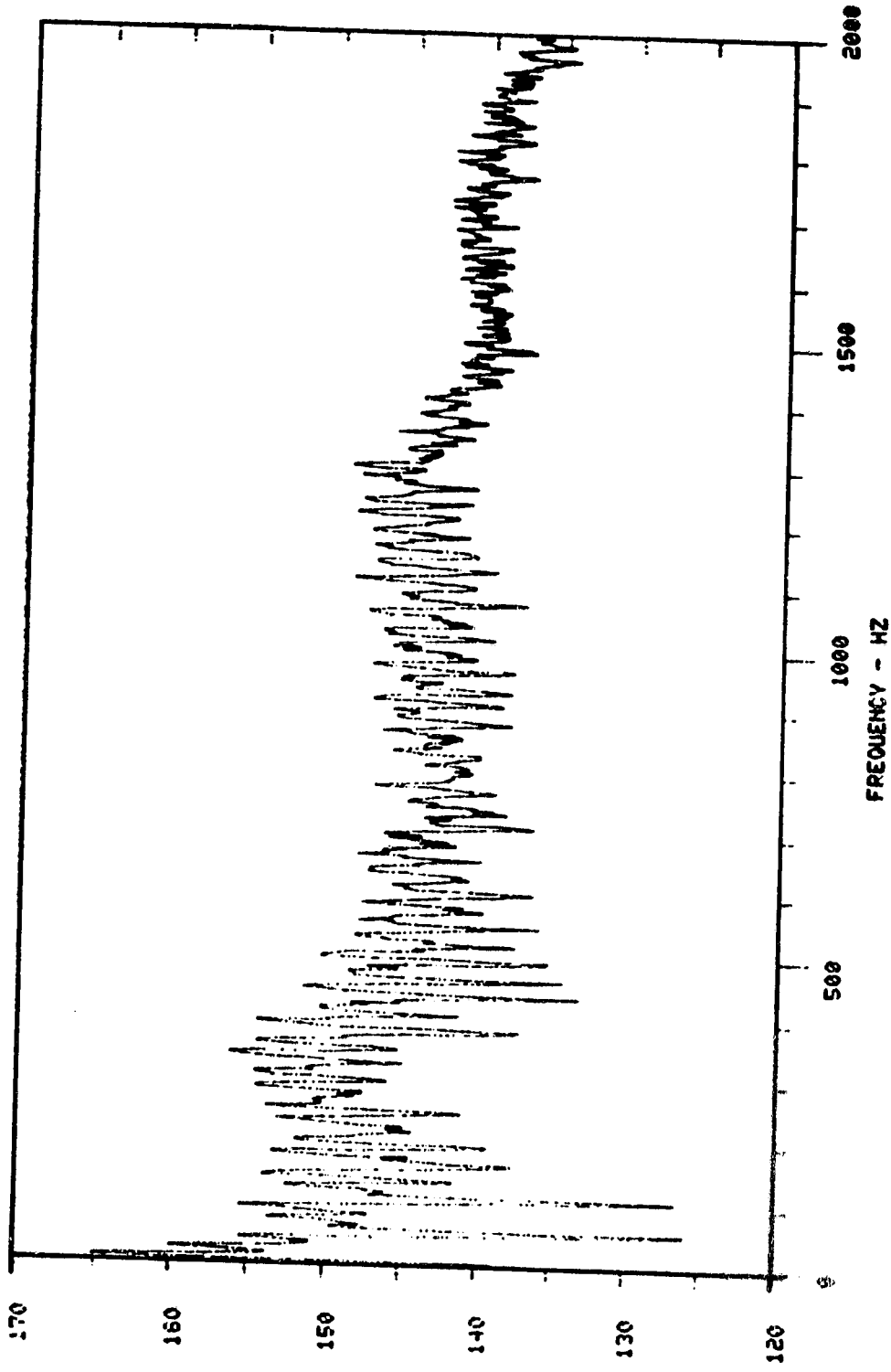
134



KULITE 19
RDG NO 563
FAN SPEED 3223 RPM
OAFPL 175.4 DB

RUN NO 1
X THRUST-67.82
G/S 1.1/ 5.0000
30/02 4006/ 8108

CF6-50 CORE NOISE PROGRAM.



KULITE 20
RDG NO 563
FAN SPEED 3223 RPM
OAFPL 176.8 DB

135

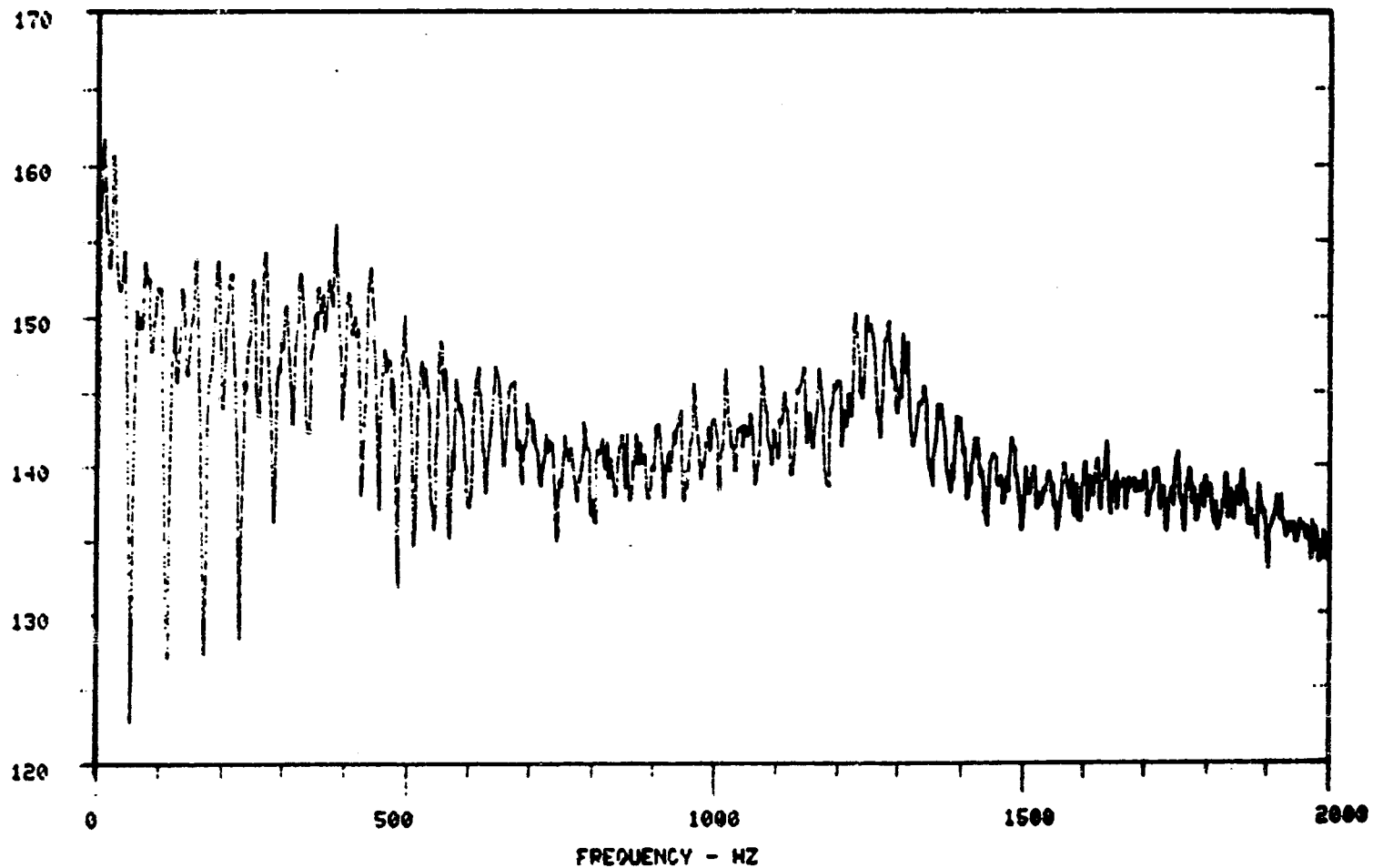
RUN NO 1
X THRUST-67.02
G/S 1.7 5.00000
BS/SR 4006/ 8102

ORIGINAL PAGE IS
OF POOR QUALITY

136

CF6-50 CORE NOISE PROGRAM.

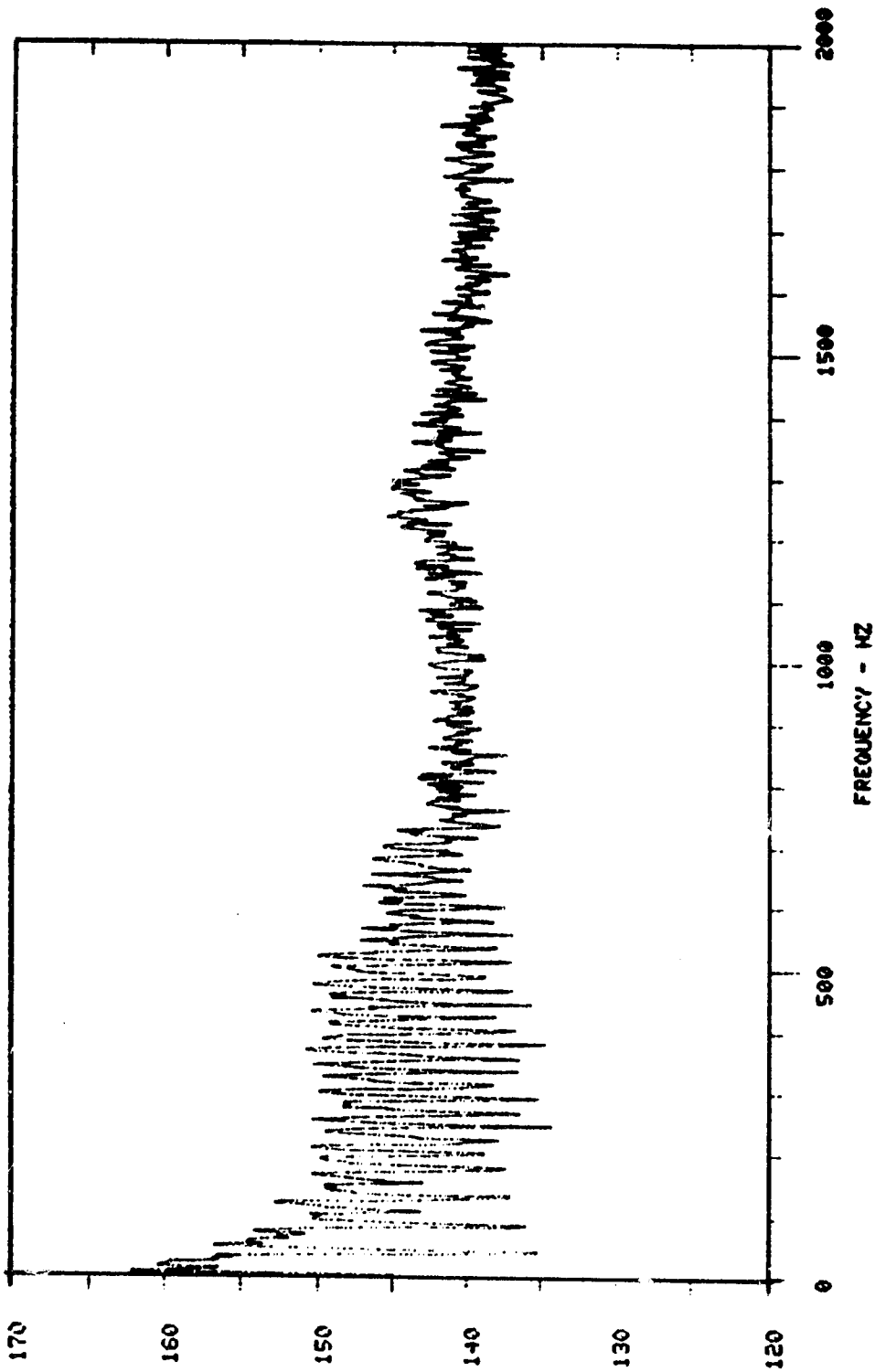
FPL - DE



KULITE 21
RDG NO 563
FAH SPEED 3223 RPM
OAFPL 176.1 DB

RUN NO 1
% THRUST-67.82
G/S 1. / 5.00000
BS/SR 4000/ 8108

CF6-50 CORE NOISE PROGRAM.



FPL - DB

ORIGINAL PAGE IS
OF POOR QUALITY

KULITE 22
RDG NO 563
FAN SPEED 3223 RPM
OAFPL 175.8 DB

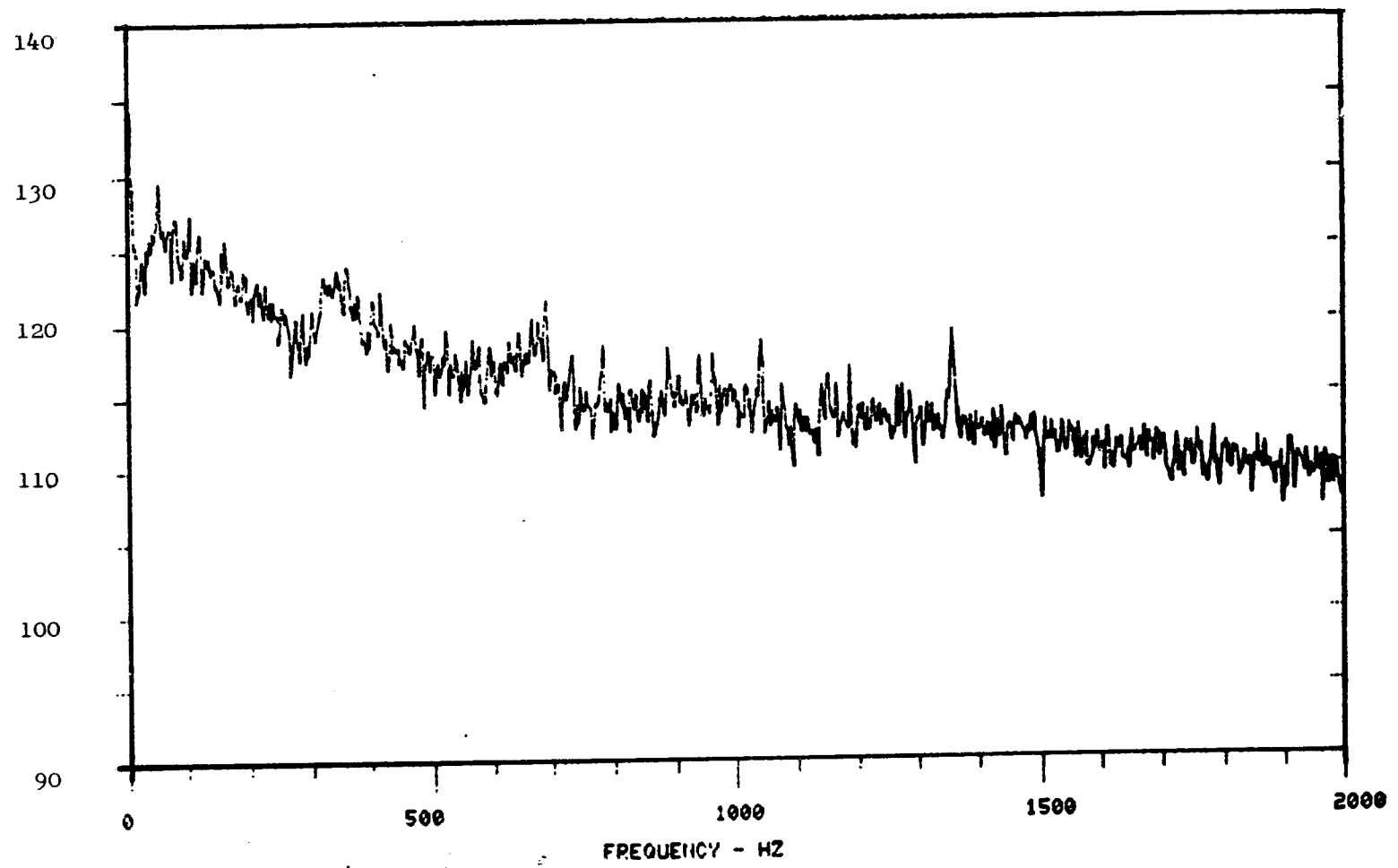
137

RUN NO 1
X THRUST-07.82
G/S 1.7 5.00000
DS/OR 4006/ 8102

138

CF6-50 CORE NOISE PROGRAM

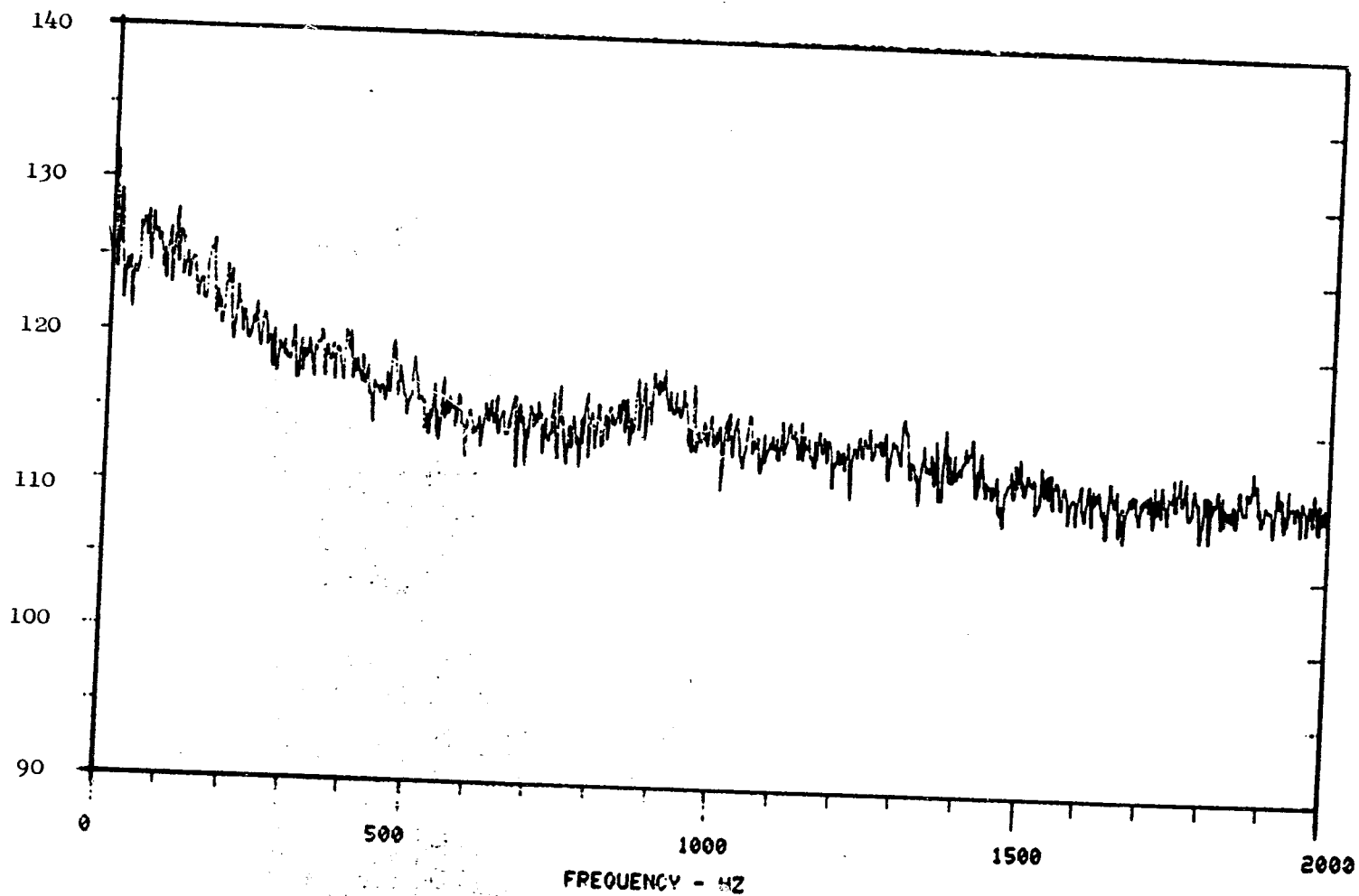
FPL - DE



KULITE 24
RDG NO 563
FAN SPEED 3223 RPM
OAFPL 148.5 DB

RUN NO 1
x THRUST-67.82
G/S 1.7 5.09000
BS/SR 4096/ 8192

CF6-50 CORE NOISE PROGRAM



FPL - DE

KULITE 26
RDG NO 563
FAN SPEED 3223 RPM
OAFPL 147.8 DB

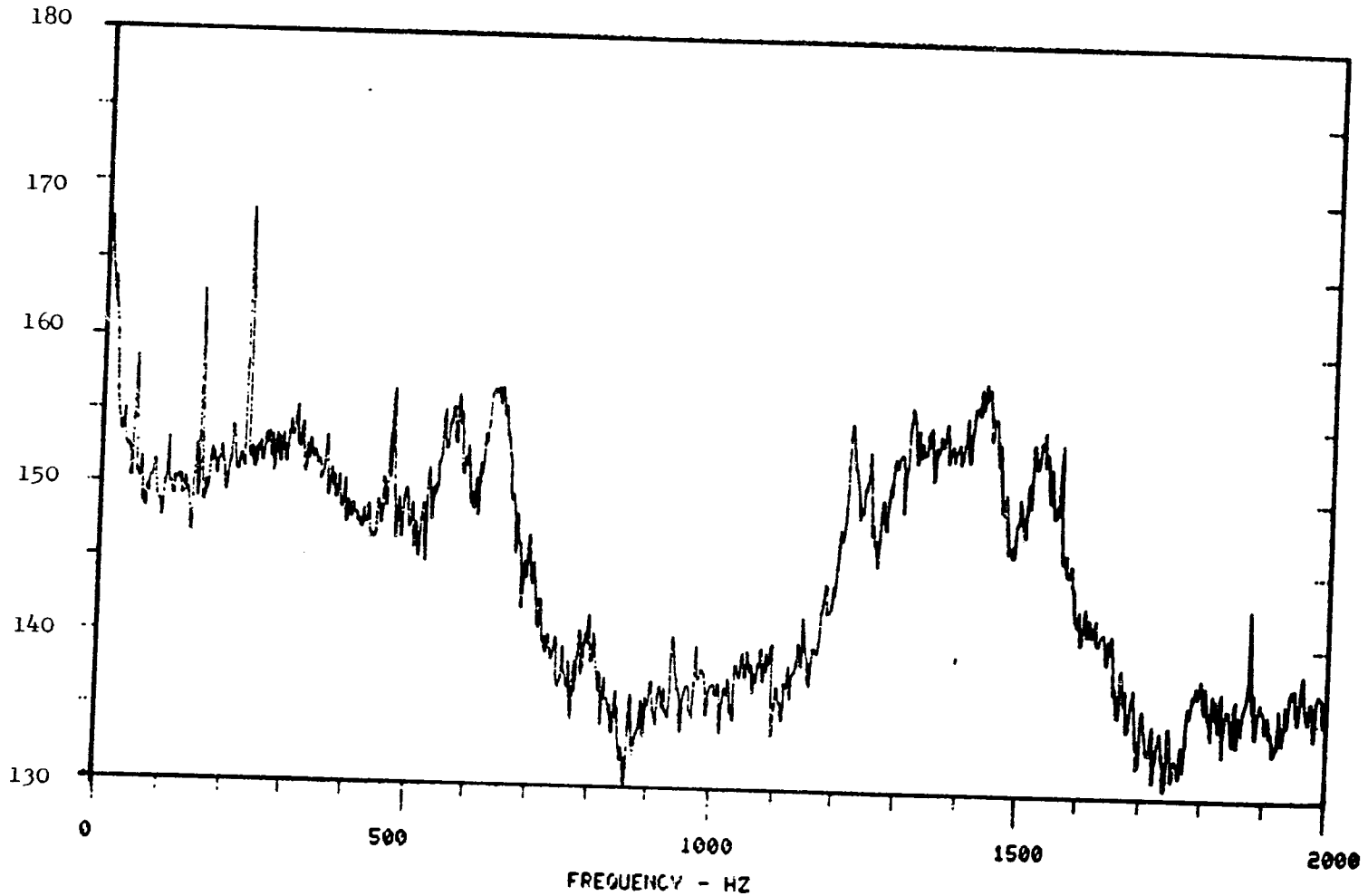
139

RUN NO 1
X THRUST=67.82
Q/S 1. / 2.00000
BS/SR 4696 / 8192

140

CF6-50 CORE NOISE PROGRAM

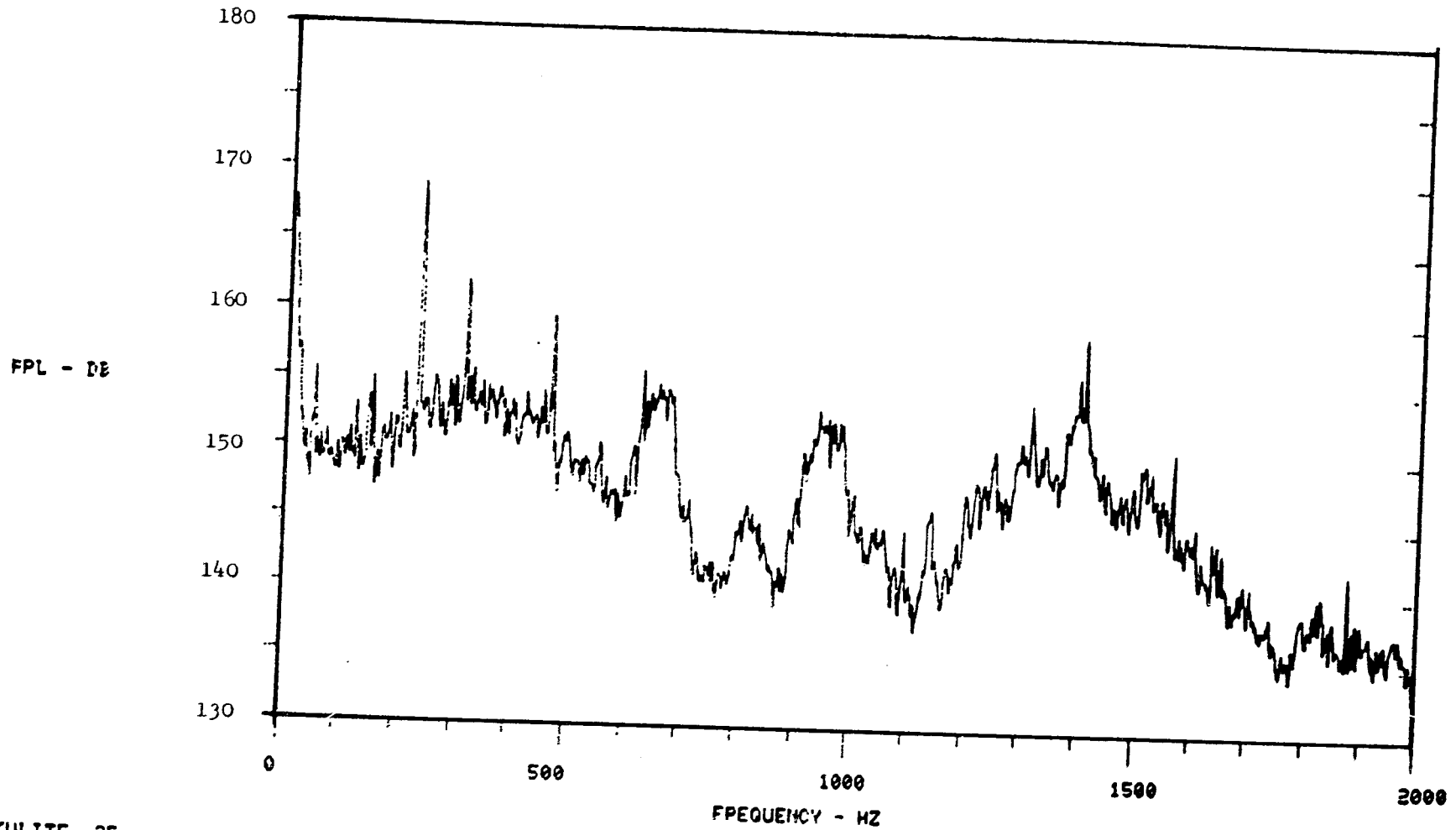
FPL - DB



KULITE 23
RDG NO 563
FAN SPEED 3223 RPM
OAFPL 181.3 DB

RUN NO 1
* THRUST-67.82
G/S 1. / 1.03900
BS/SR 4096 / 8192

CF6-50 CORE NOISE PROGRAM



KULITE 25
RDG NO 563
FAN SPEED 3223 RPM
OAFPL 181.1 DB

141

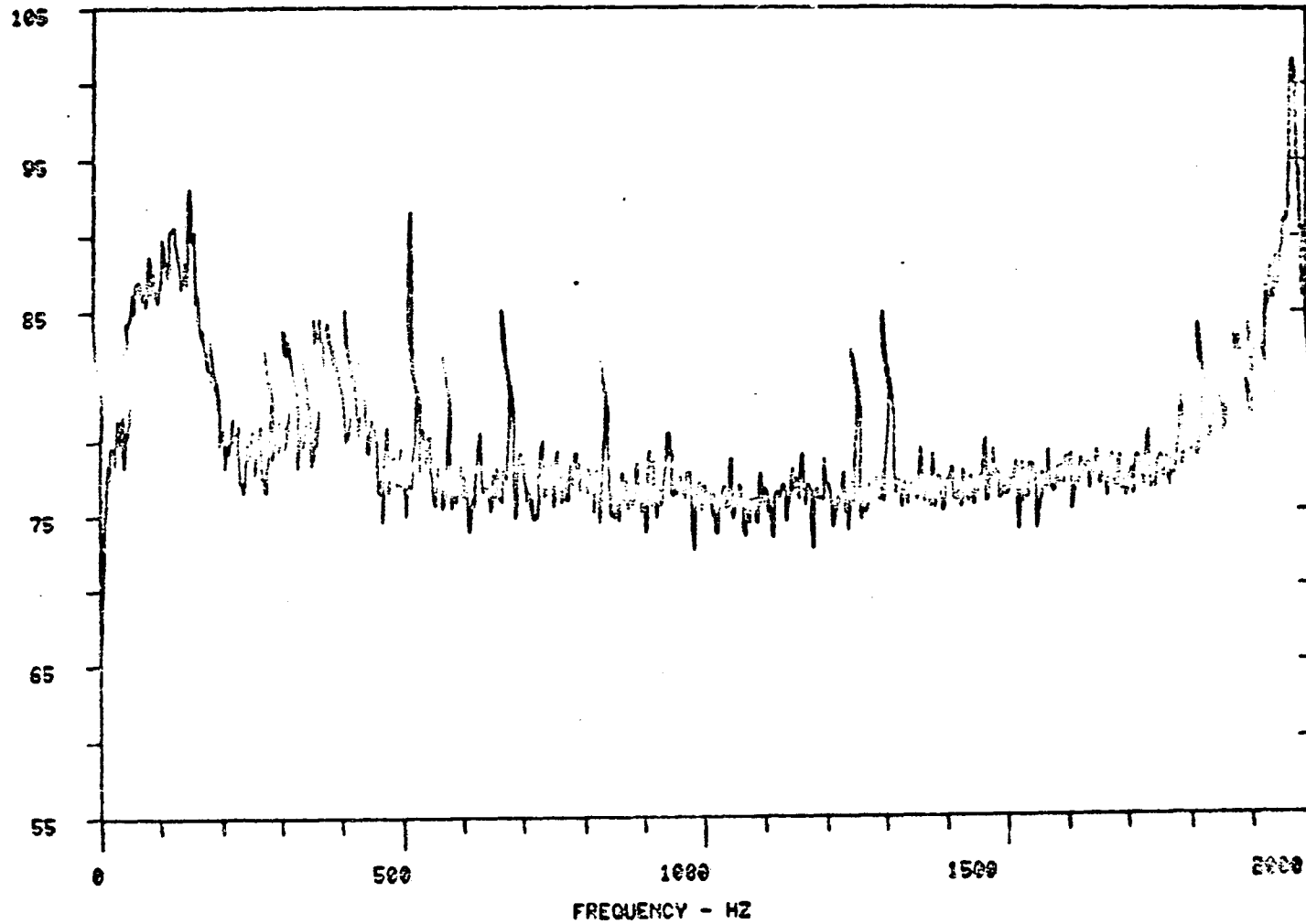
RUN NO 1
X THRUST=67.82
G/S 1. / 1.00000
29/SR 4096/ 8192

CF6-50 CORE NOISE PROGRAM.

142

SPL - DB

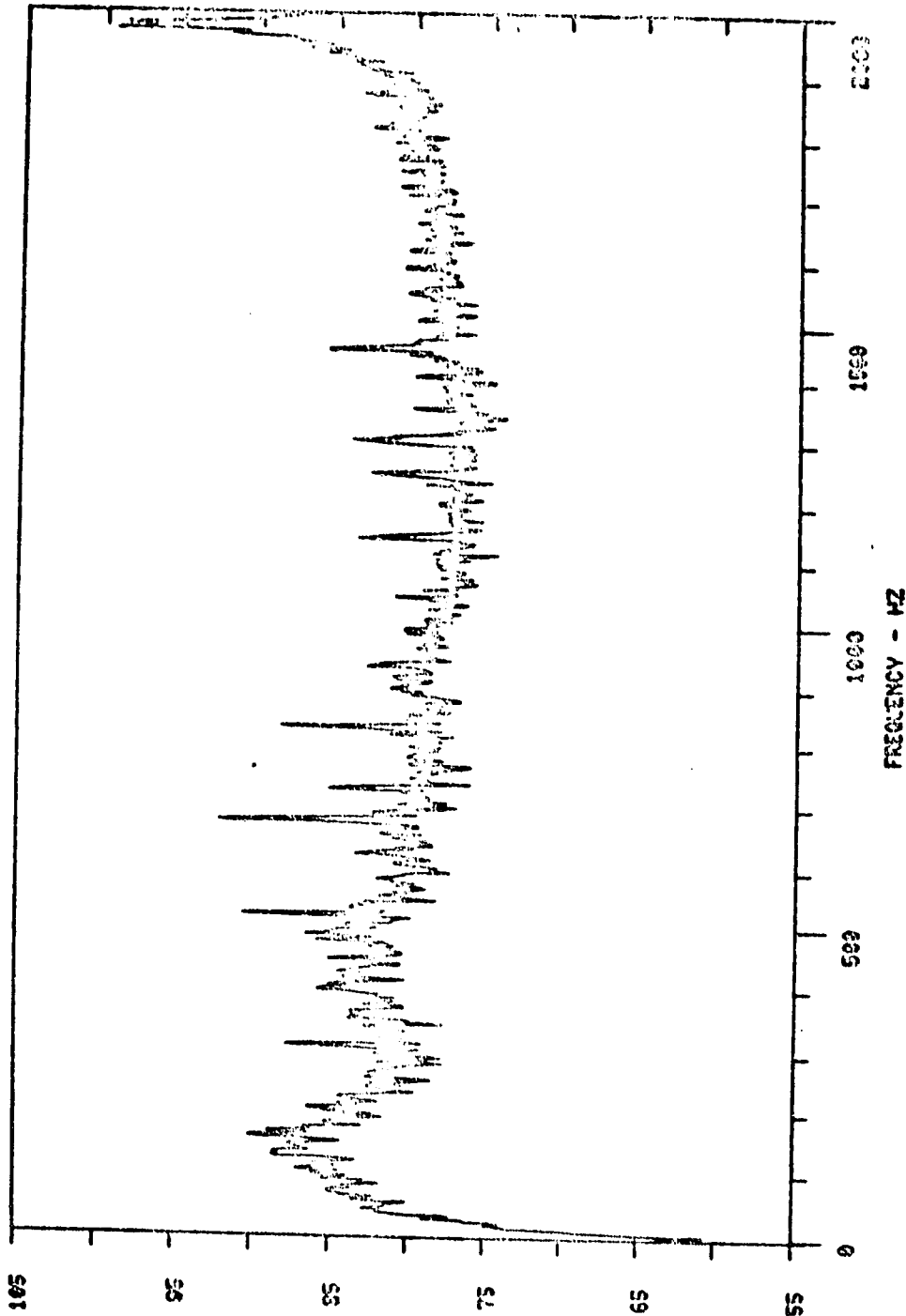
ORIGINAL PAGE IS
OF POOR QUALITY



NIC 16 DEG
RDG NO 563
FAN SPEED 3223 RPM
OASPL 113.1 DB

RUN NO 1
X THRUST=67.82
G/S 1. / 0.00025
SS/GR 4903/ 8102

CF6-50 CORE NOISE PROGRAM.

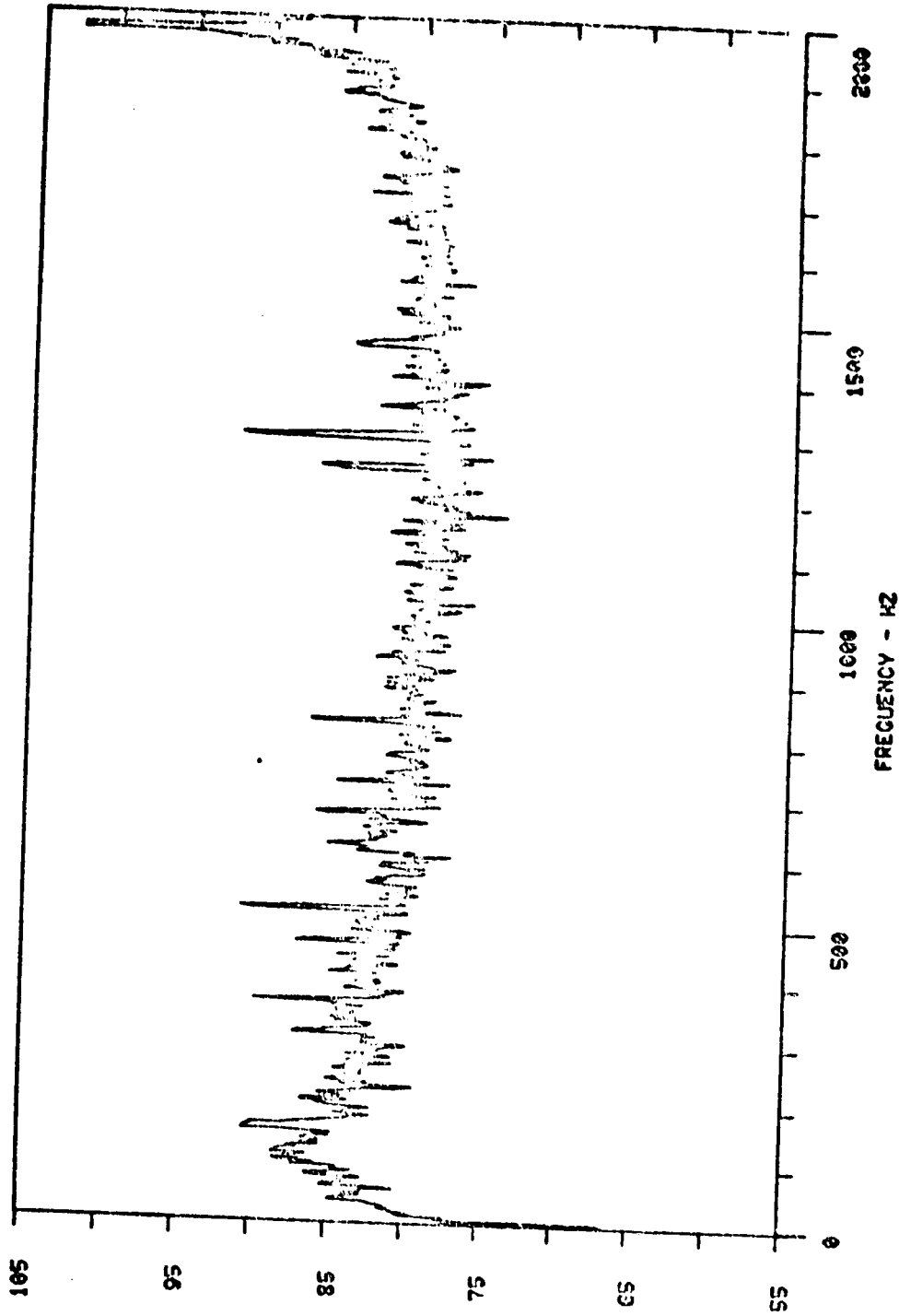


CPL - 02

MIC 30 DEO
RDS NO 553
FAN SPEED 3223 RPM
QASPL 112.8 DB
143

RUN NO 1
* TRIMOT=57.83
C/S 1.7 0.0000
29/53 4039/ 8123

CF6-50 CORE NOISE PROGRAM.



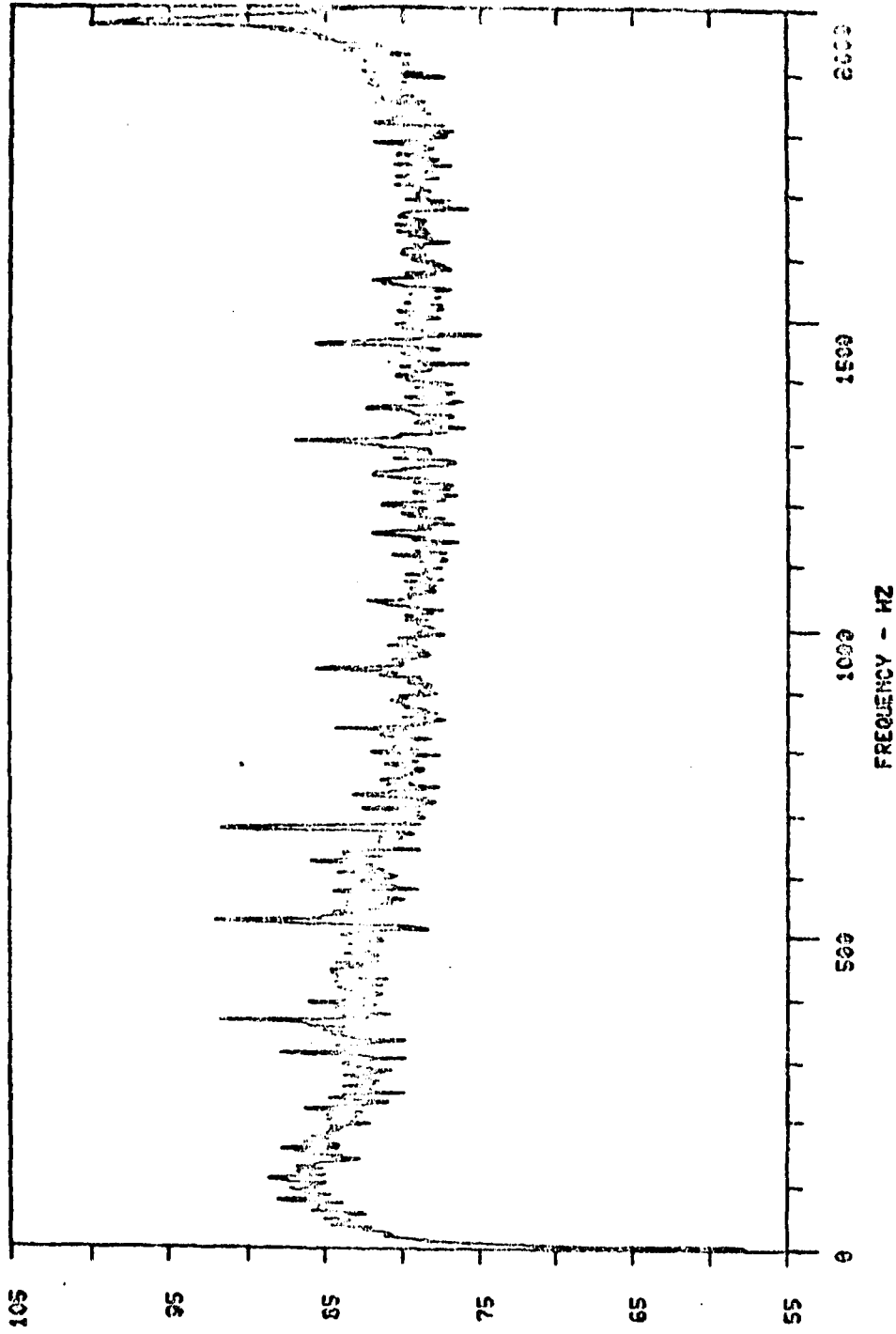
RUN NO 1
X THRUST-67.82
O/S 1.1 0.65225
IS/GR 4653/ 8152

AIC 49 DEG
R06 NO 563
FAV SPEED 3223 RPM
OASPL 114.3 DB

SPL - DB

ORIGINAL PAGE IS
OF POOR QUALITY

CF6-50 CORE NOISE PROGRAM.



SPL - DB

HIC 50 DEG

RDG NO 563

FAN SPEED 3223 RPM

CASPL 112.0 DB

145

RUN NO 1

X THRUST-57.83

Q/S 1.7 0.0000

BS/BR 4986/ 2152

2000

1500

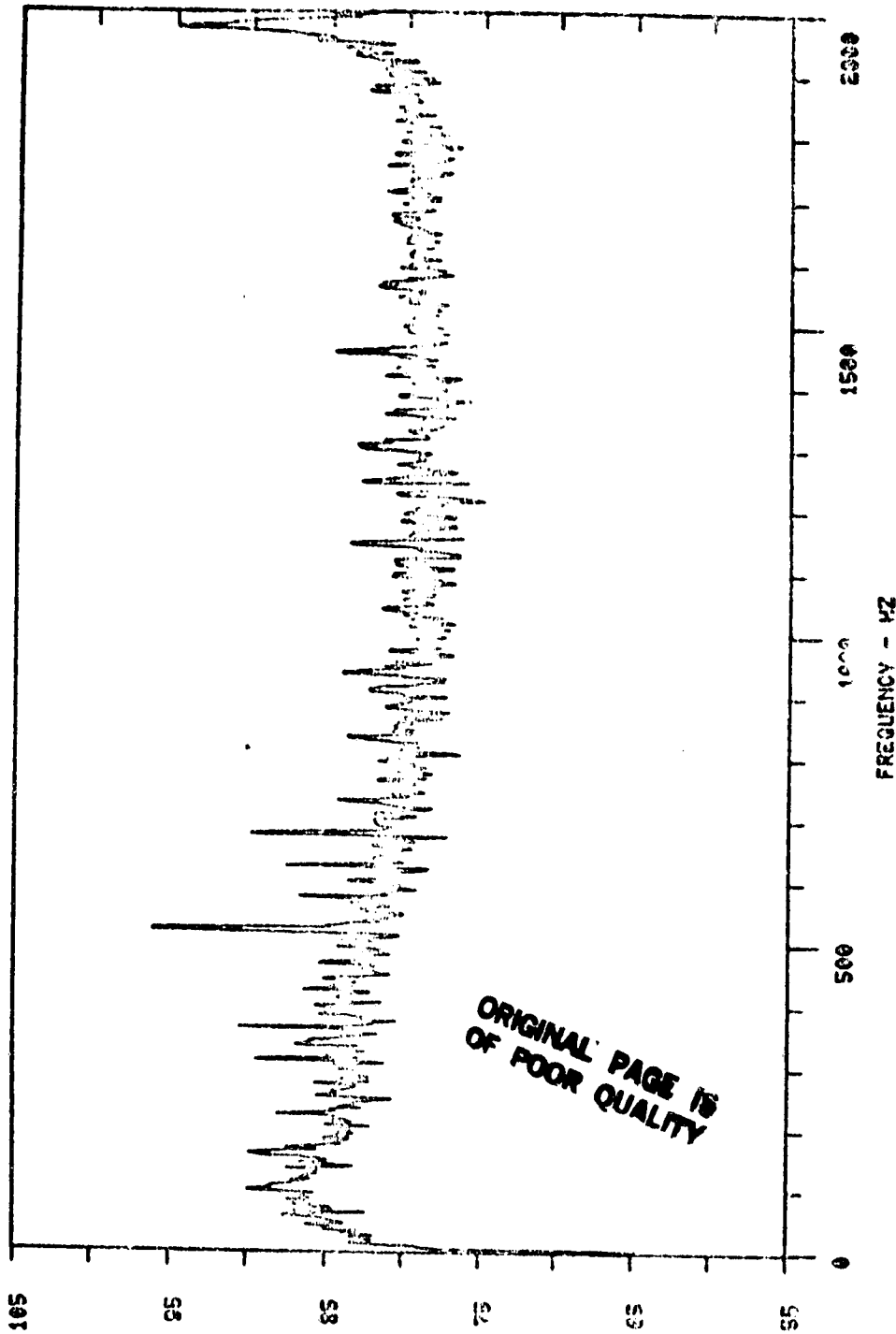
1000

500

0

FREQUENCY - HZ

CF6-50 CORE NOISE PROGRAM.



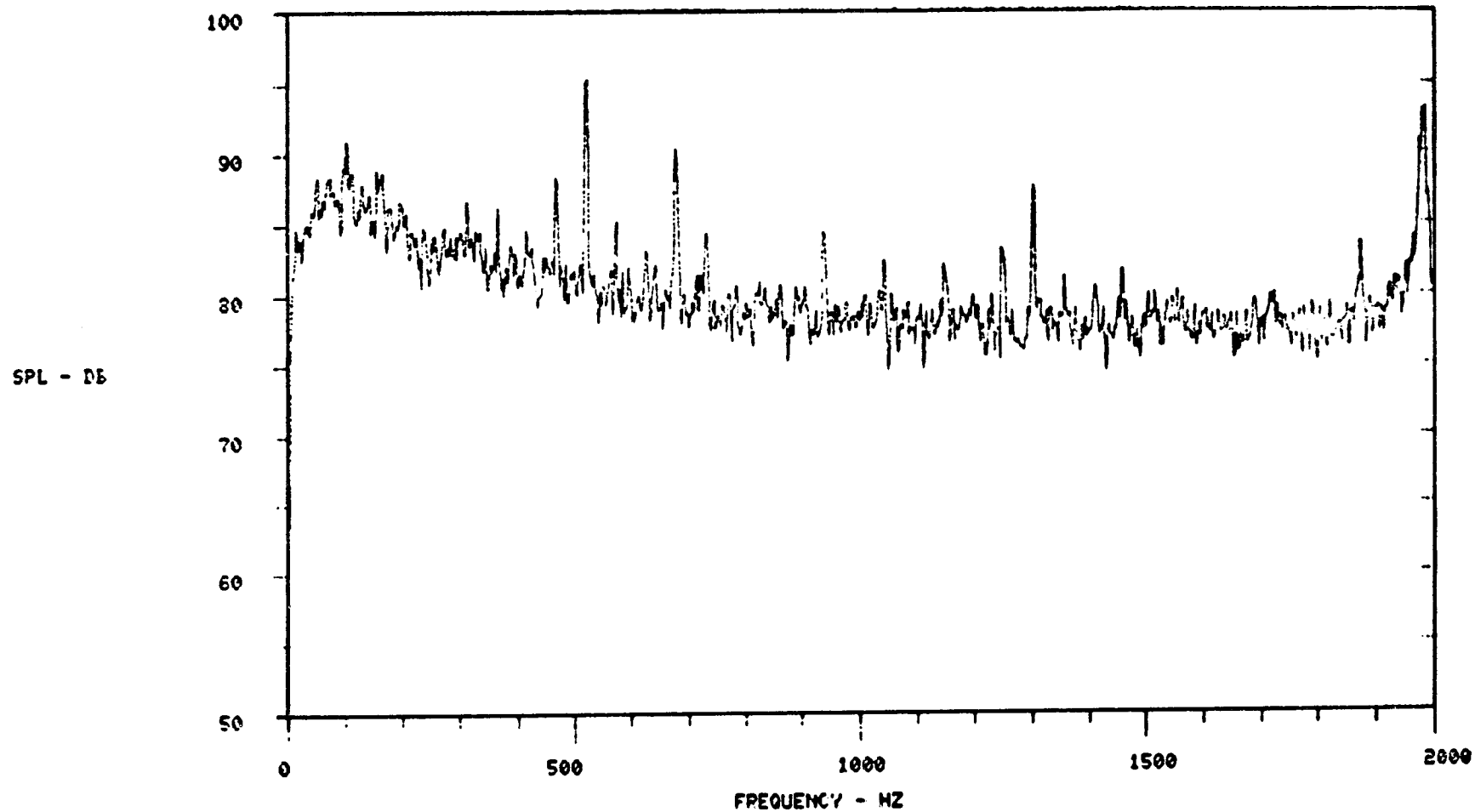
146

SPL - DB

RIC 60 DEG
RCA NO 563
FAN SPEED 3223 RPM
CASPL 112.6 DB

RUN NO 1
X THRUST-67.82
G/S 1.7 0.09325
PS/SR 4935/ 8192

CF6-50 CORE NOISE PROGRAM



MIC 70 DEG
RDG NO 563
FAN SPEED 3223 RPM
OASPL 111.9 DB

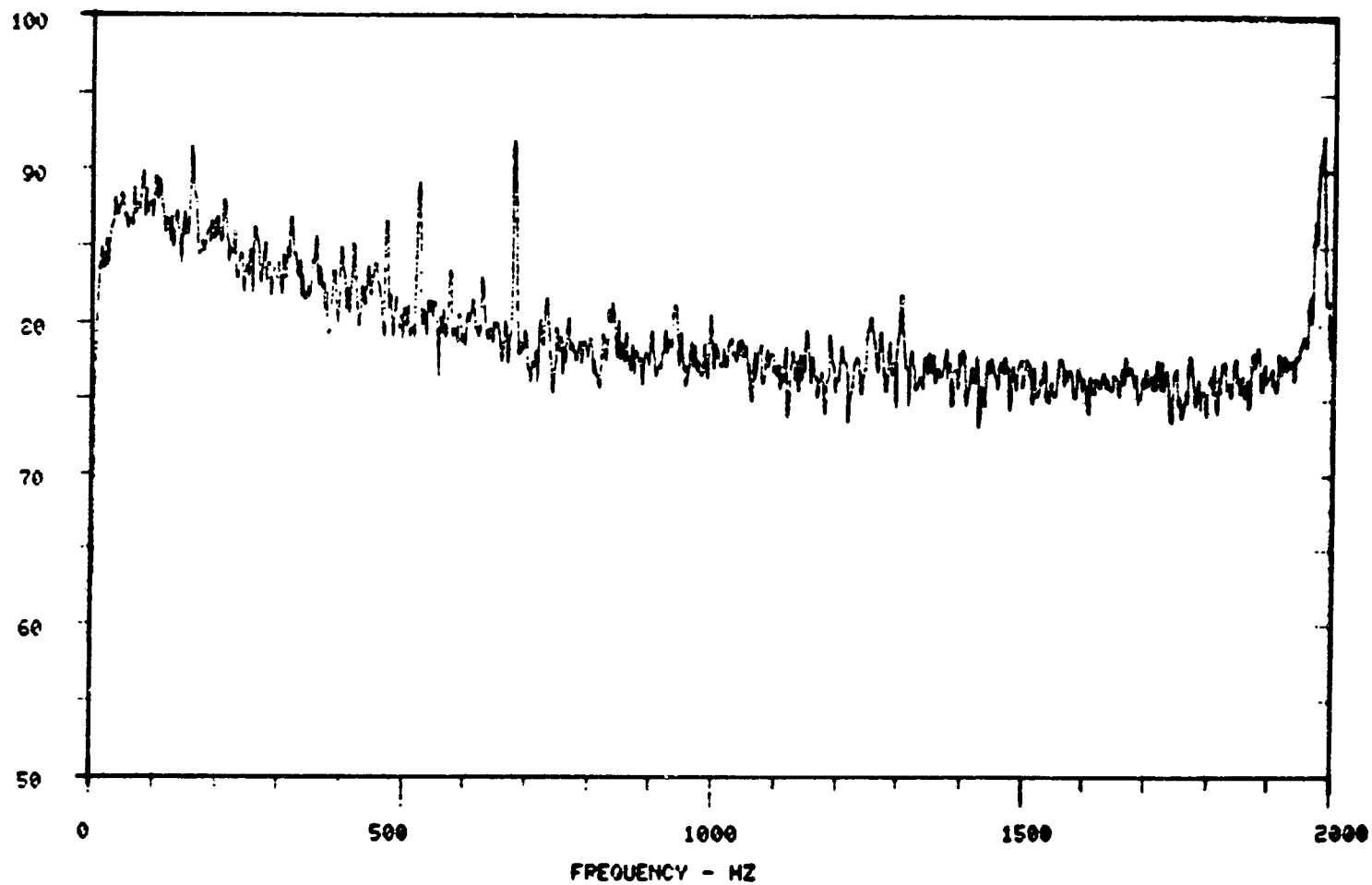
147

RUN NO 1
X THRUST=67.82
G/S 1. / 0.00325
BS/SR 4096 / 8192

148

CF6-50 CORE NOISE PROGRAM

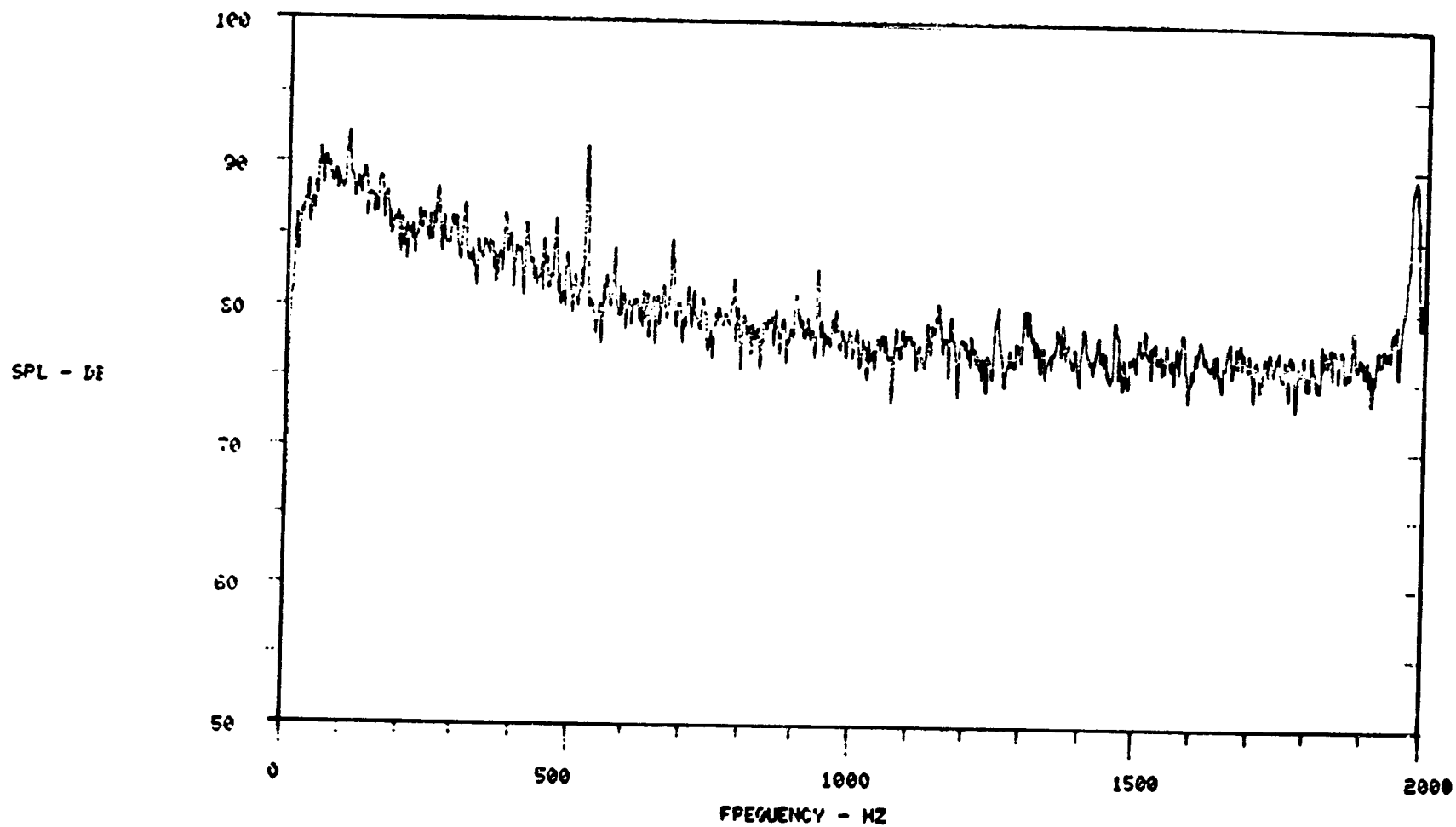
SPL - DB



MIC 90 DEG
RDG NO 563
FAN SPEED 3223 RPM
OASPL 111.4 DB

RUN NO 1
% THRUST-67.82
G/S 1.00325
DS/SR 4096/ 8192

CF6-50 CORE NOISE PROGRAM



MIC 90 DEG
RDG NO 563
FAN SPEED 3223 RPM
OASPL 111.9 DB

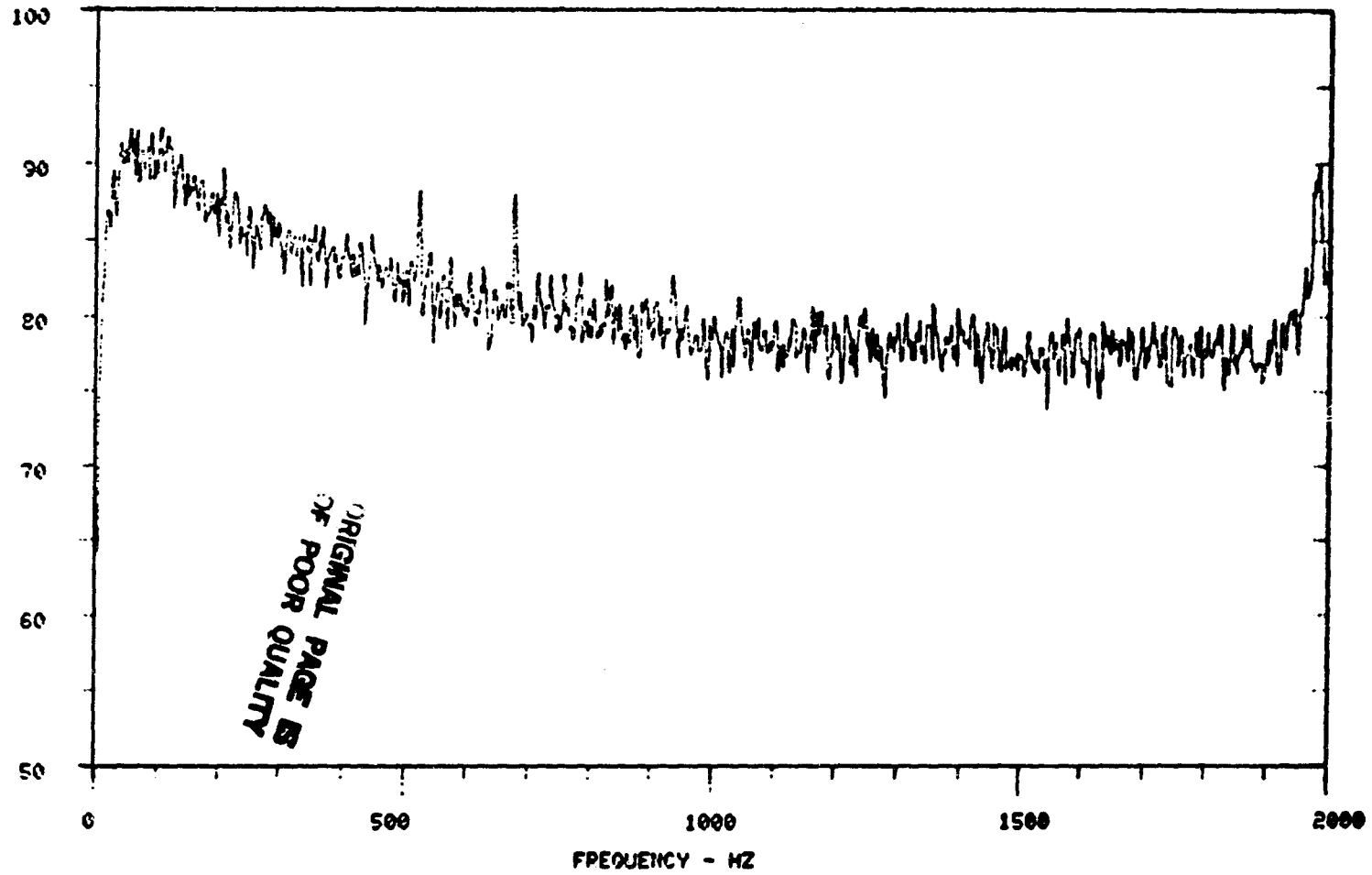
149

RUN NO 1
% THRUST-67.82
G/S 1. / 0.00325
BS/SR 4096 / 8192

150

CF6-50 CORE NOISE PROGRAM

SPL - DB

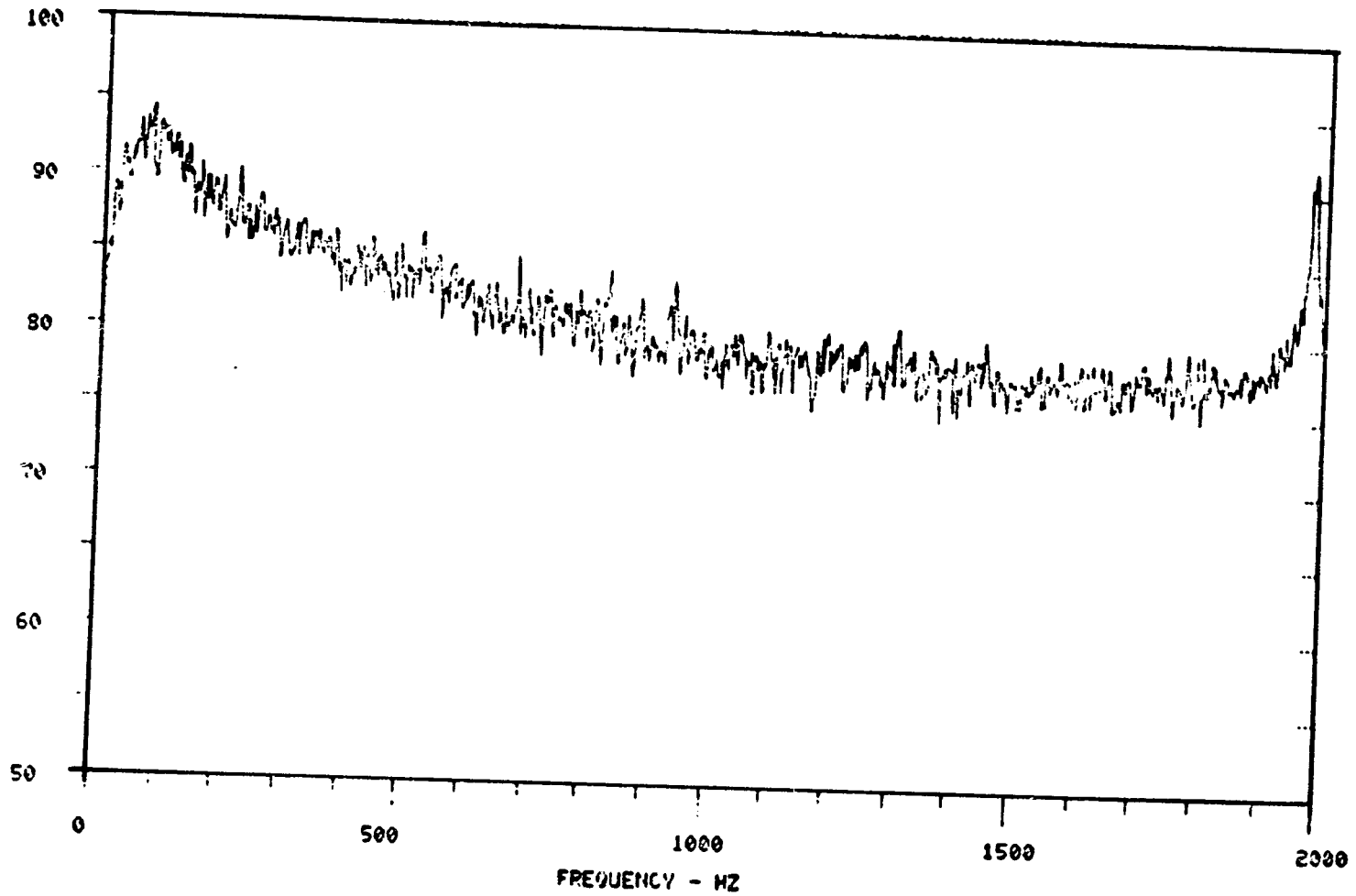


MIC 100 DEG
RDG NO 563
FAN SPEED 3223 RPM
OASPL 112.9 DB

RUN NO 1
* THRUST-67.82
Q/S 1. / 0.00325
BS/SR 4096 / 8192

CF6-50 CORE NOISE PROGRAM

SPL - DE



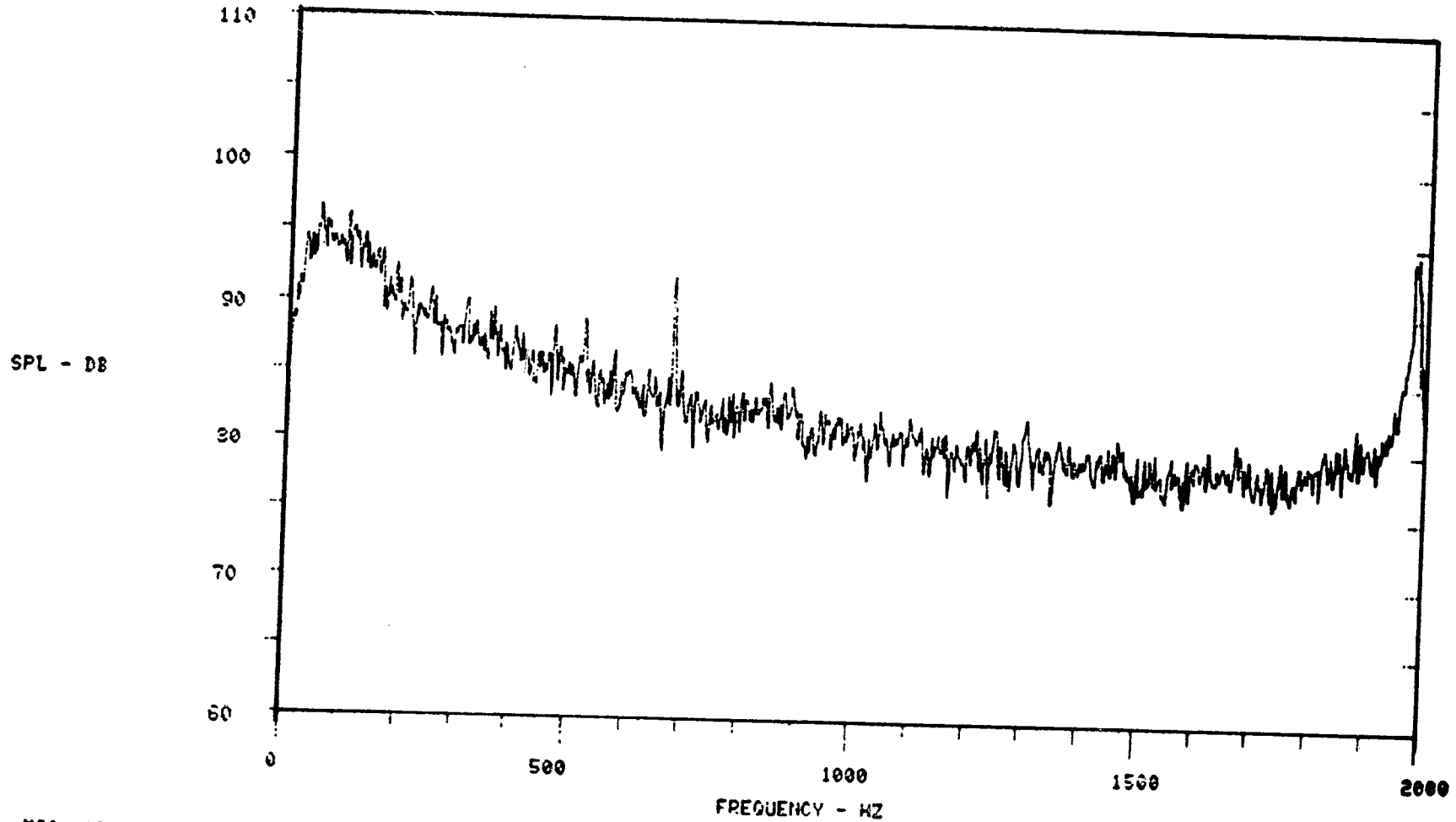
MIC 110 DEG
RDG NO 563
FAN SPEED 3223 RPM
OASPL 113.8 DB

151

RUN NO 1
% THRUST=67.82
G/S 1. / 0.00325
BS/SR 4096 / 8192

152

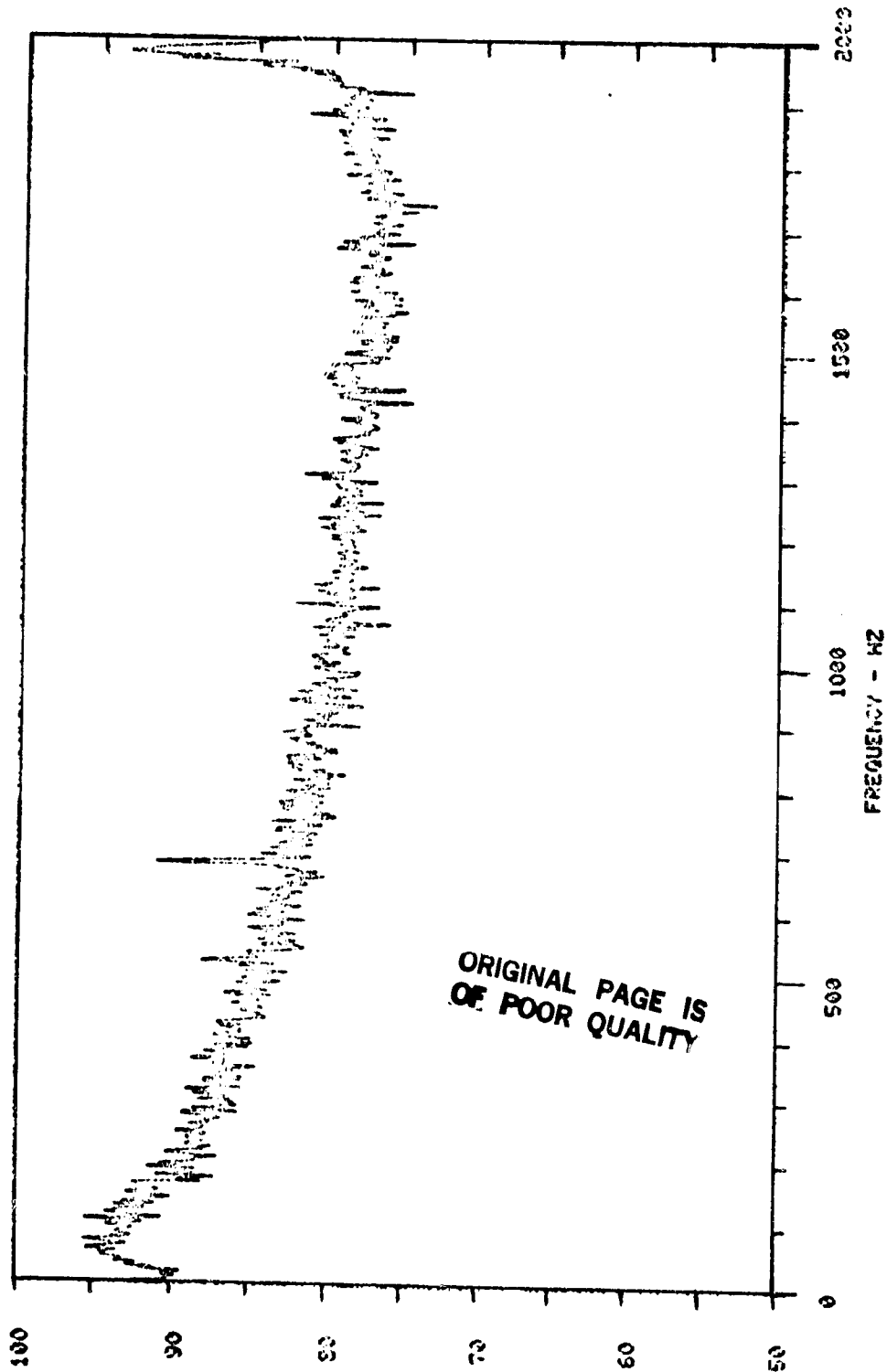
CF6-50 CORE NOISE PROGRAM.



MIC 120 DEG
RDG NO 563
FAN SPEED 3223 RPM
OASPL 116.1 DB

RUN NO 1
X THRUST=67.82
Q/S 1./ 0.00325
BS/SR 4006/ 8102

CF6-50 CORE NOISE PROGRAM.



ORIGINAL PAGE IS
OF POOR QUALITY

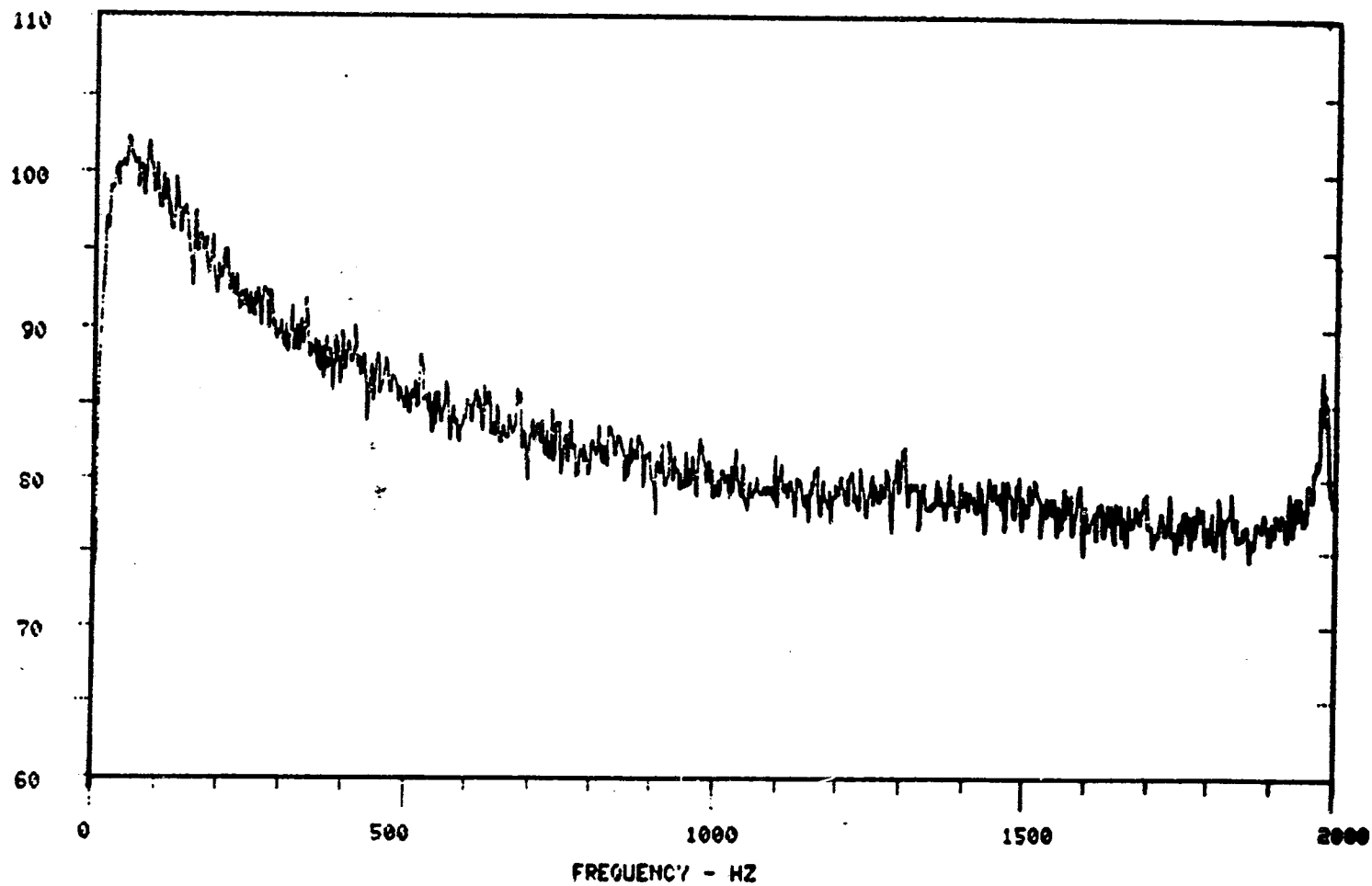
MIC 130 DEG
RPM NO 553
FAN SPEED 3223 RPM
ORCL 115.3 DB
153

RUN NO 1
X THRUST-67.82
Q/S 1.7 0.0025
BS/GR 4936/ 8192

154

CF6-50 CORE NOISE PROGRAM.

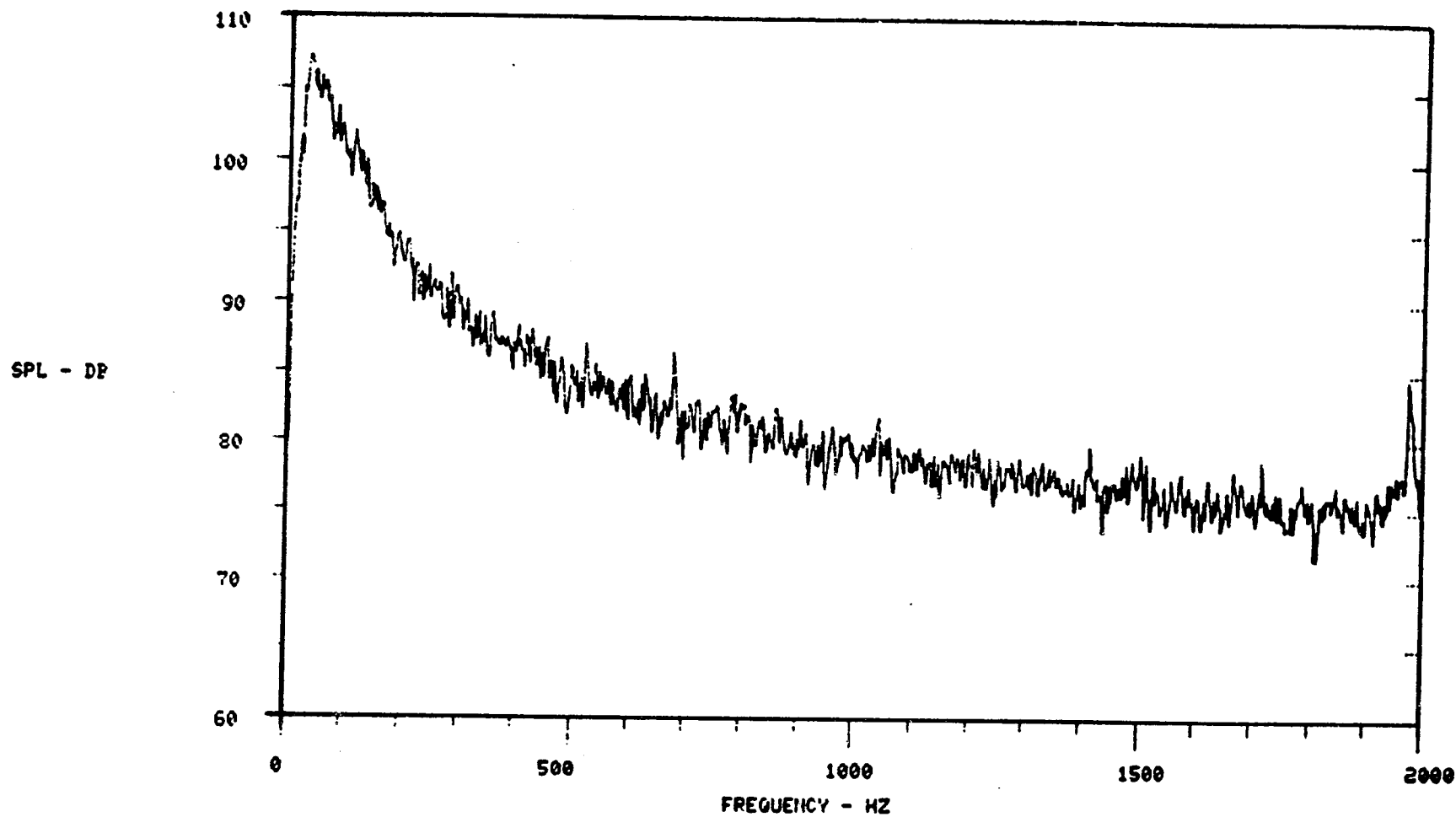
SPL - DB



MIC 140 DEG
RDG NO 563
FAN SPEED 3223 RPM
OASPL 119.5 DB

RUN NO 1
* THRUST=67.82
Q/S 1. / 0.00325
DS/SR 4006 / 8182

CF6-50 CORE NOISE PROGRAM.



MIC 150 DEG
RDG NO 563
FAN SPEED 3223 RPM
OASPL 122.1 DB

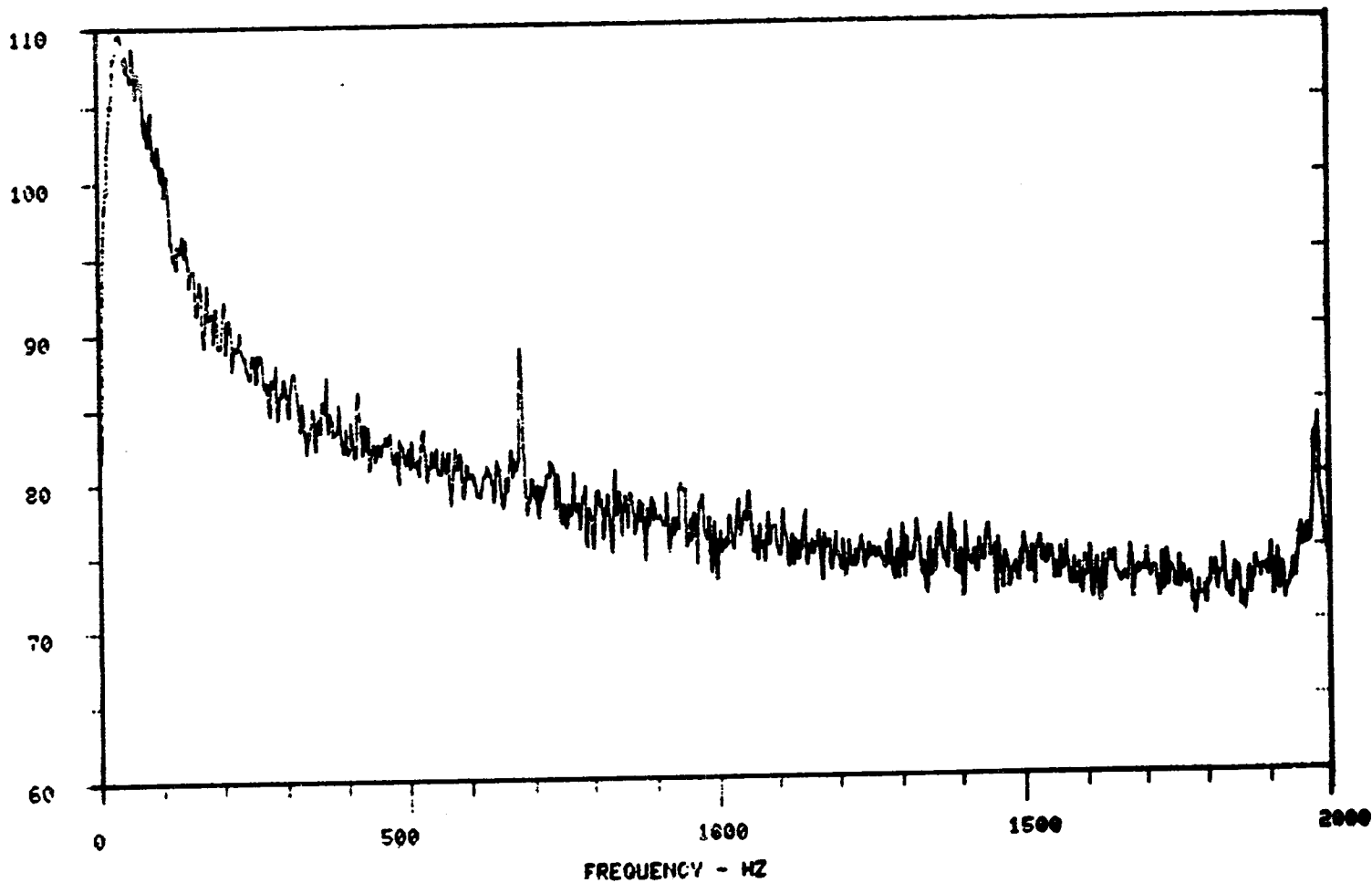
135

RUN NO 1
X THRUST=67.82
G/S 1. / 0.00325
IS/SR 4006 / 8192

CF6-50 CORE NOISE PROGRAM.

156

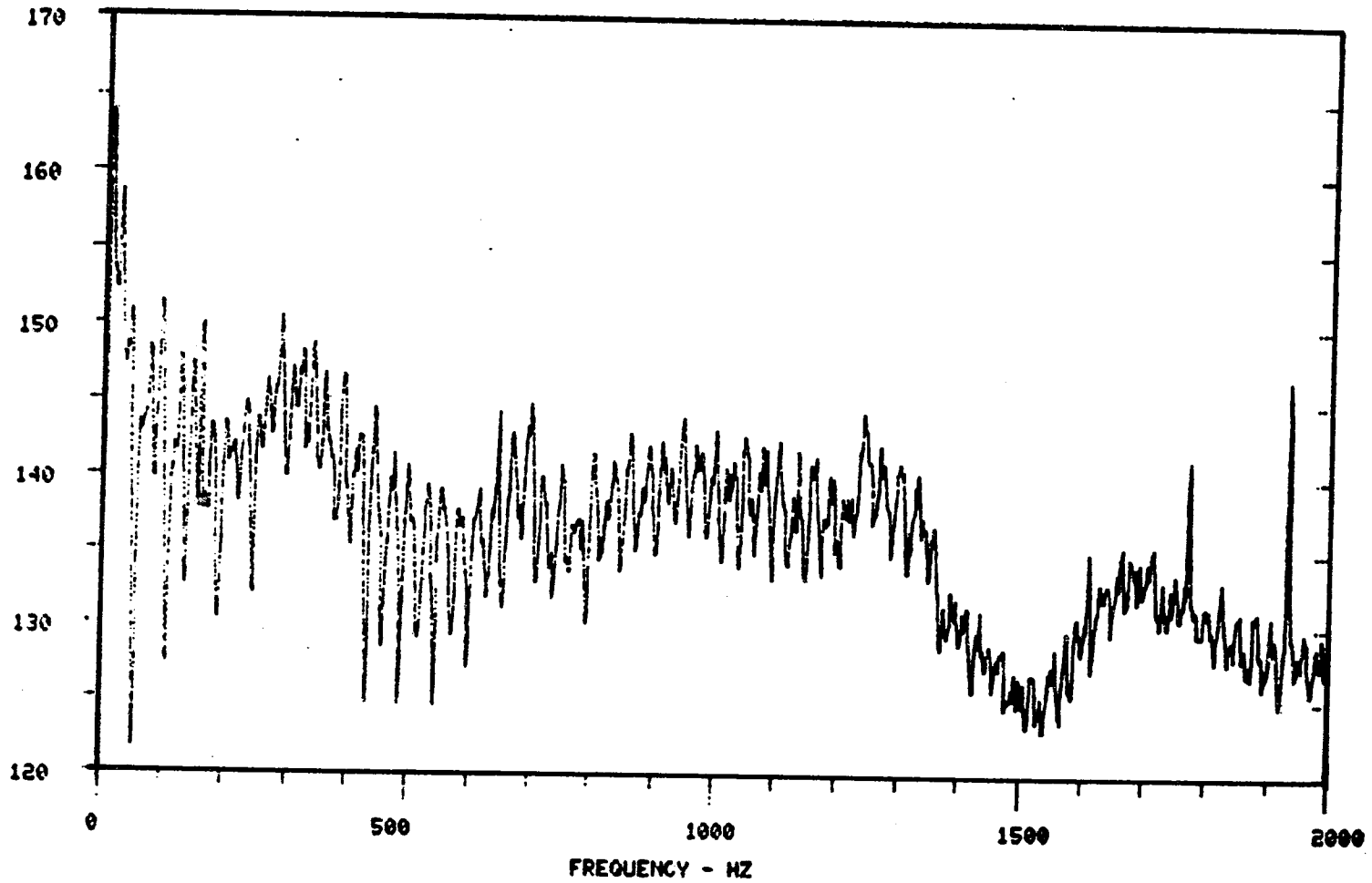
SPL - DE



MIC 160 DEG
RDG NO 563
FAN SPEED 3223 RPM
OASPL 123.4 DB

RUN NO 1
X THRUST-67.82
C/S 1. / 0.00385
DB/ER 4098/ 8192

CF6-50 CORE NOISE PROGRAM.



FPL - DE

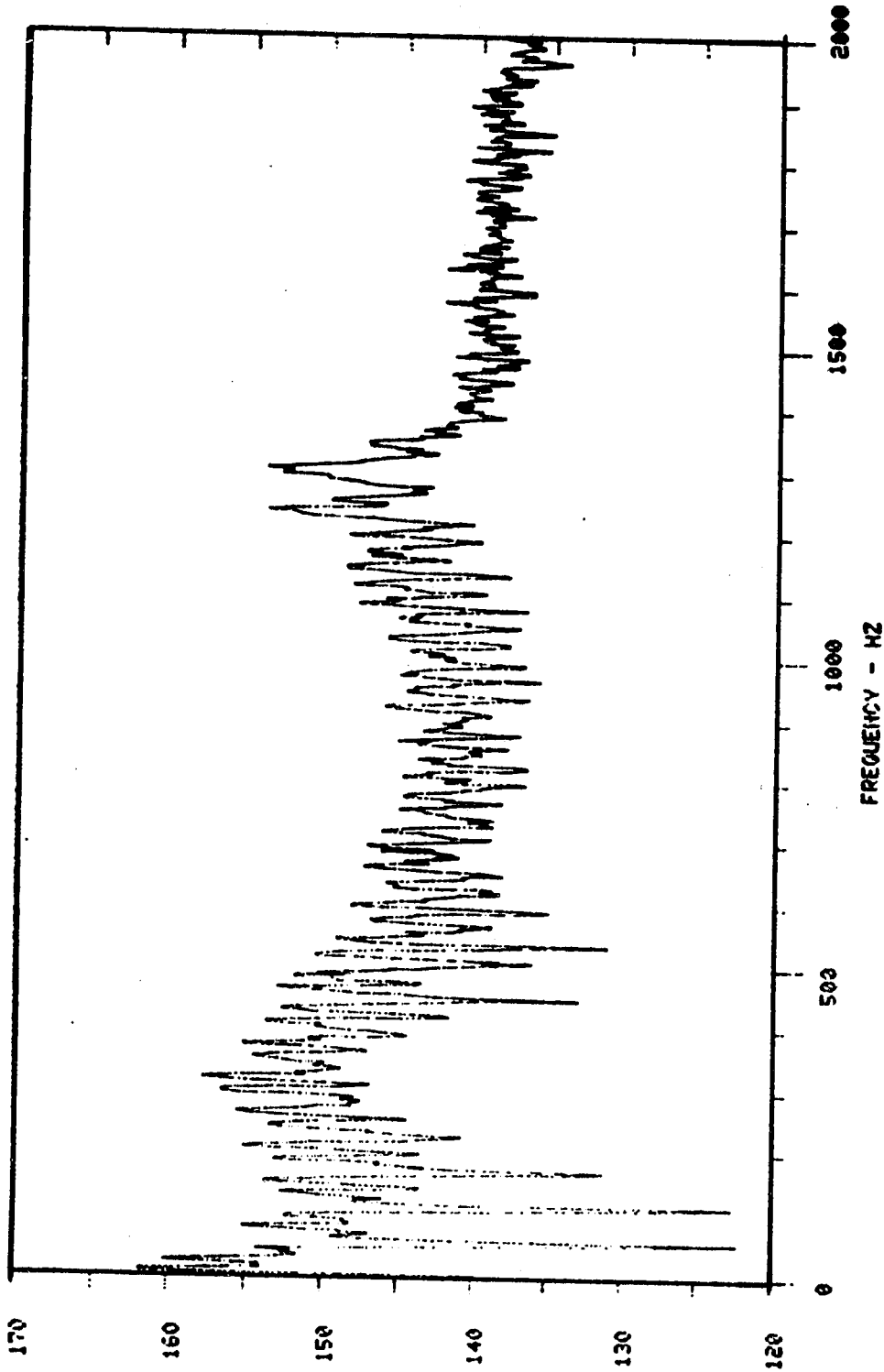
ORIGINAL PAGE
OF POOR QUALITY

KULITE 18
RDG NO 565
FAN SPEED 3459 RPM
OAFPL 178.2 DB

157

RUN NO 2
X THRUST-85.54
O/S 2.1 / 5.00000
BS/SR 4906 / 8198

CF6-50 CORE NOISE PROGRAM.



158

FPL - DB

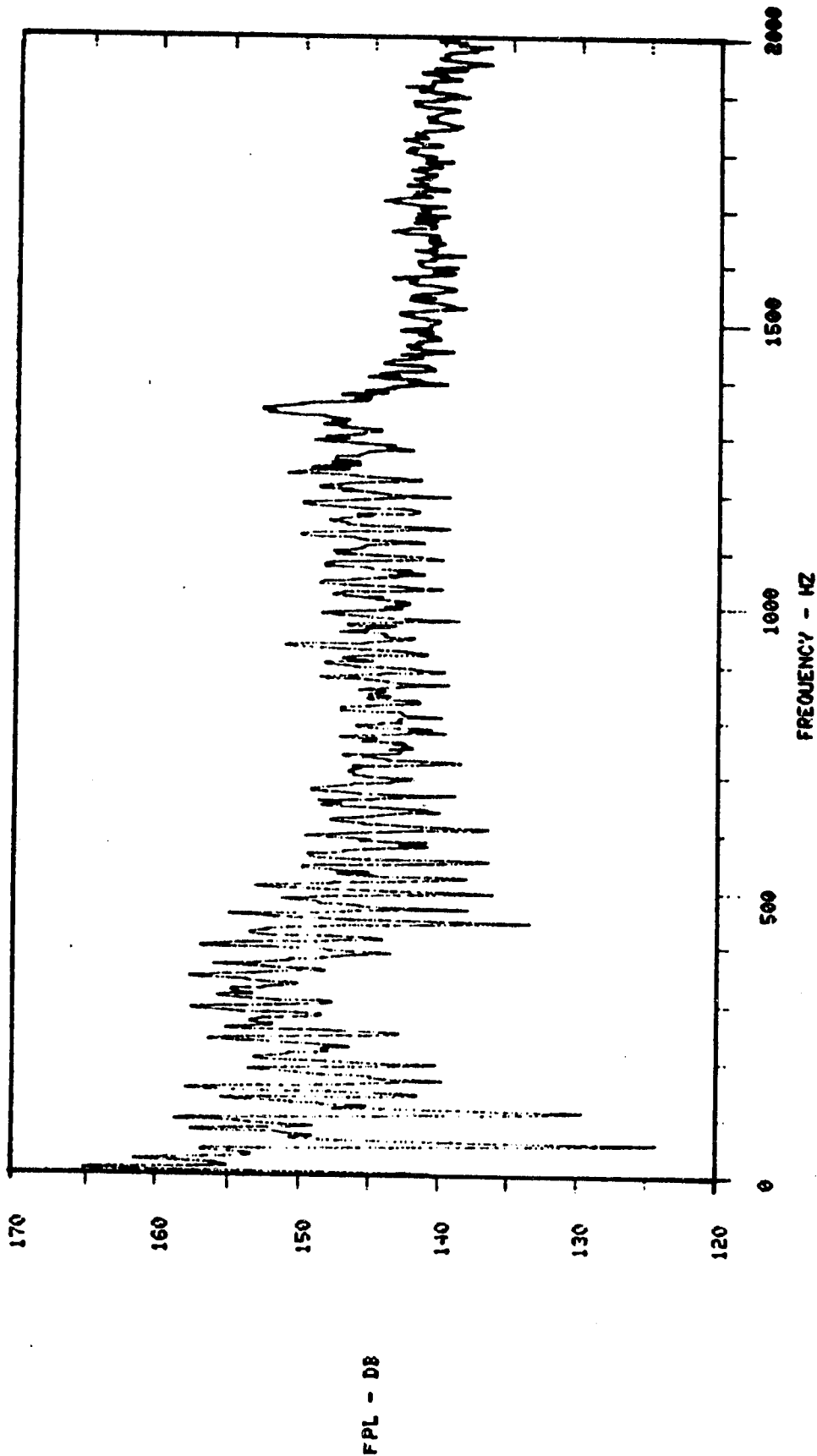
ORIGINAL PAGE IS
OF POOR QUALITY

KULITE 19
RDG NO 565
FAN SPEED 3459 RPM
CAPPL 177.1 DB

RUN NO 2
X THRUST-85.54
0/8 1./ 5.00000
88/SR 4096/ 8198

FREQUENCY - HZ

CF6-50 CORE NOISE PROGRAM.



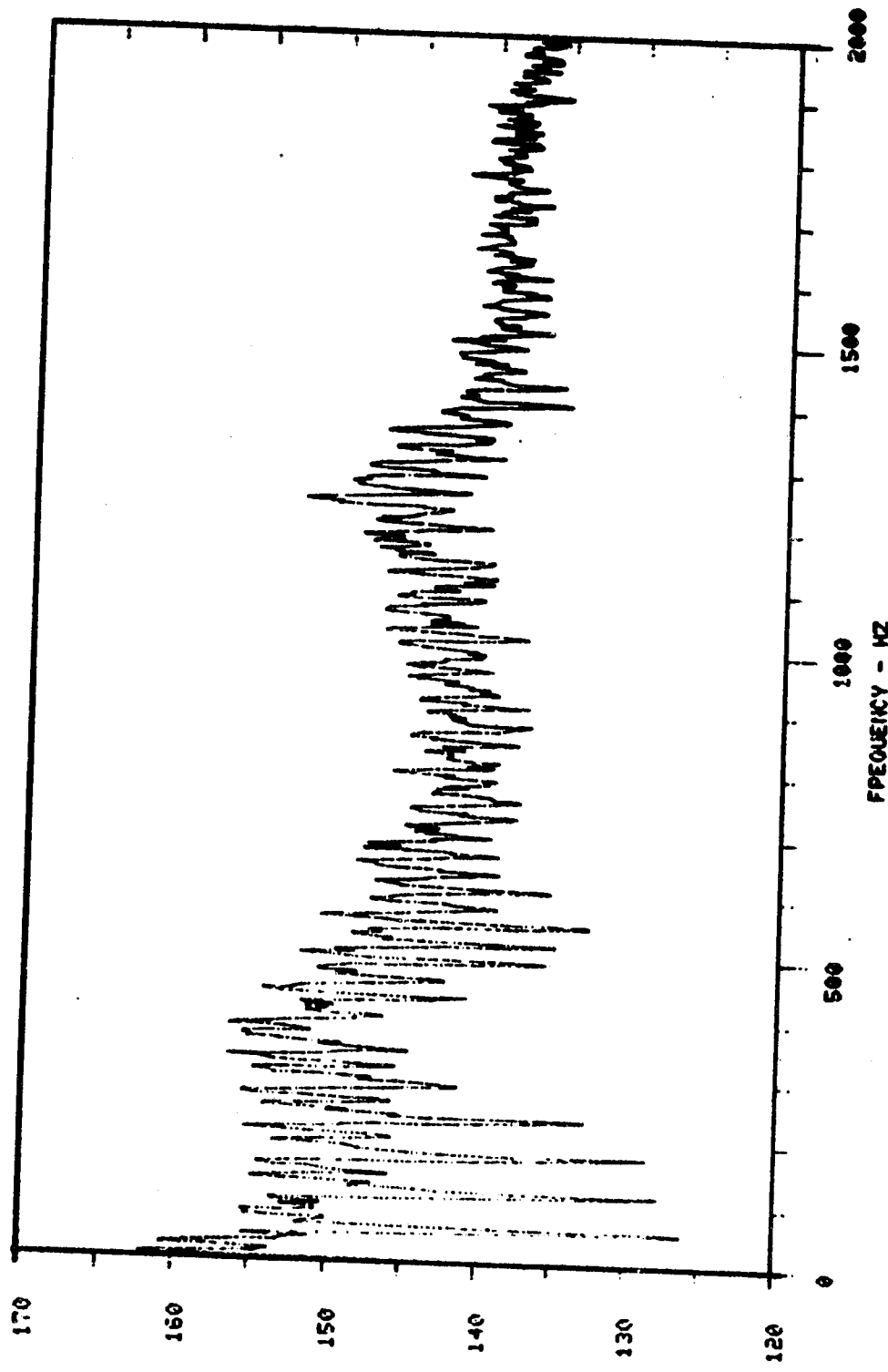
KULITE 20
RDG NO 565
FAN SPEED 3450 RPM
OAFPL 178.5 DB

159

RUN NO 2
X THRUST-85.54
O/S 1./ 5.00000
DS/SR 4096/ 0:32

160

CF6-50 CORE NOISE PROGRAM.

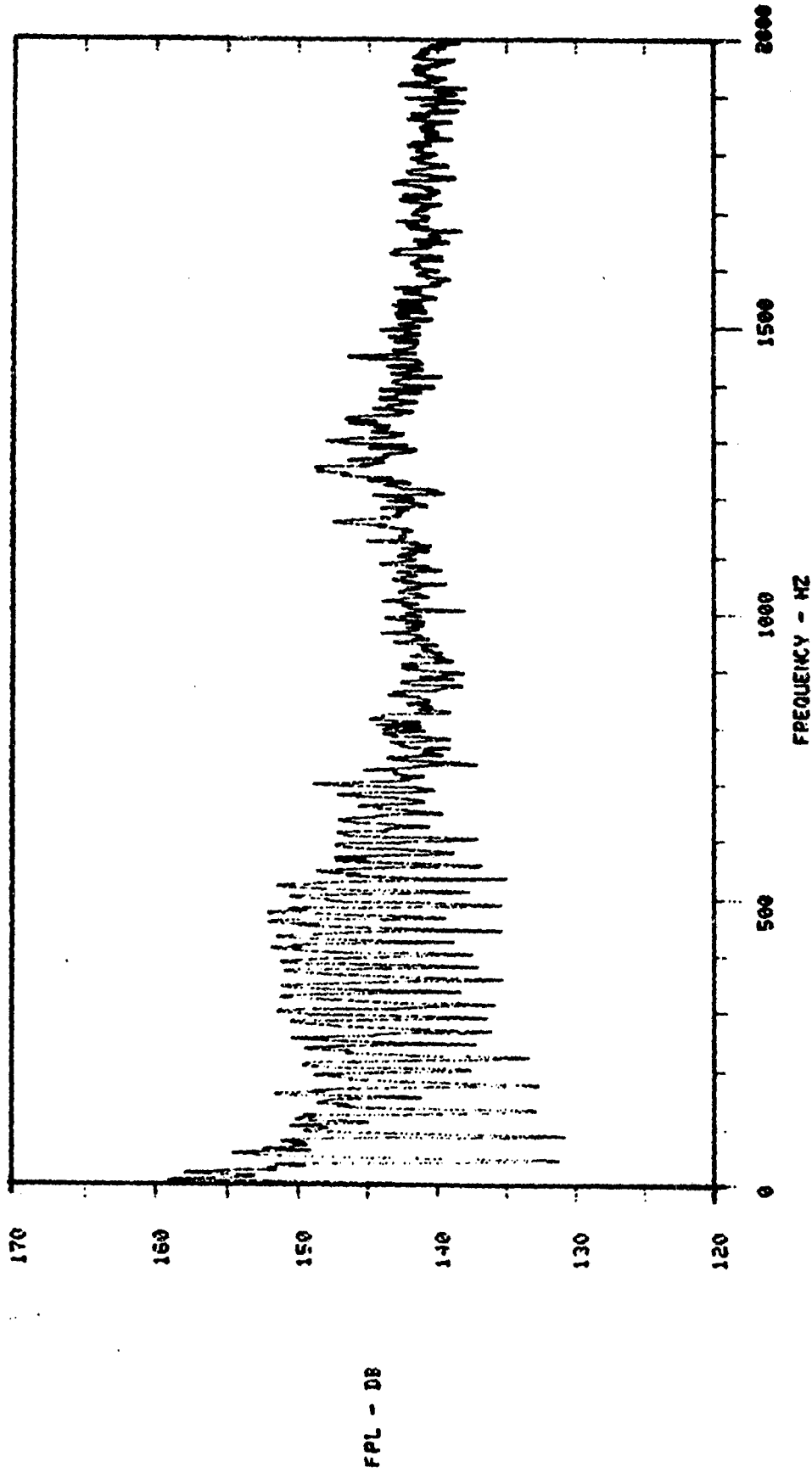


FPL - DB

KULITE 21
RDG NO 565
FAN SPEED 3450 RPM
OAFPL 177.3 DB

RUN NO 2
X THRUST-25.54
O/S 1.7 5.00000
DB/HR 4000/ 8190

CF6-50 CORE NOISE PROGRAM.



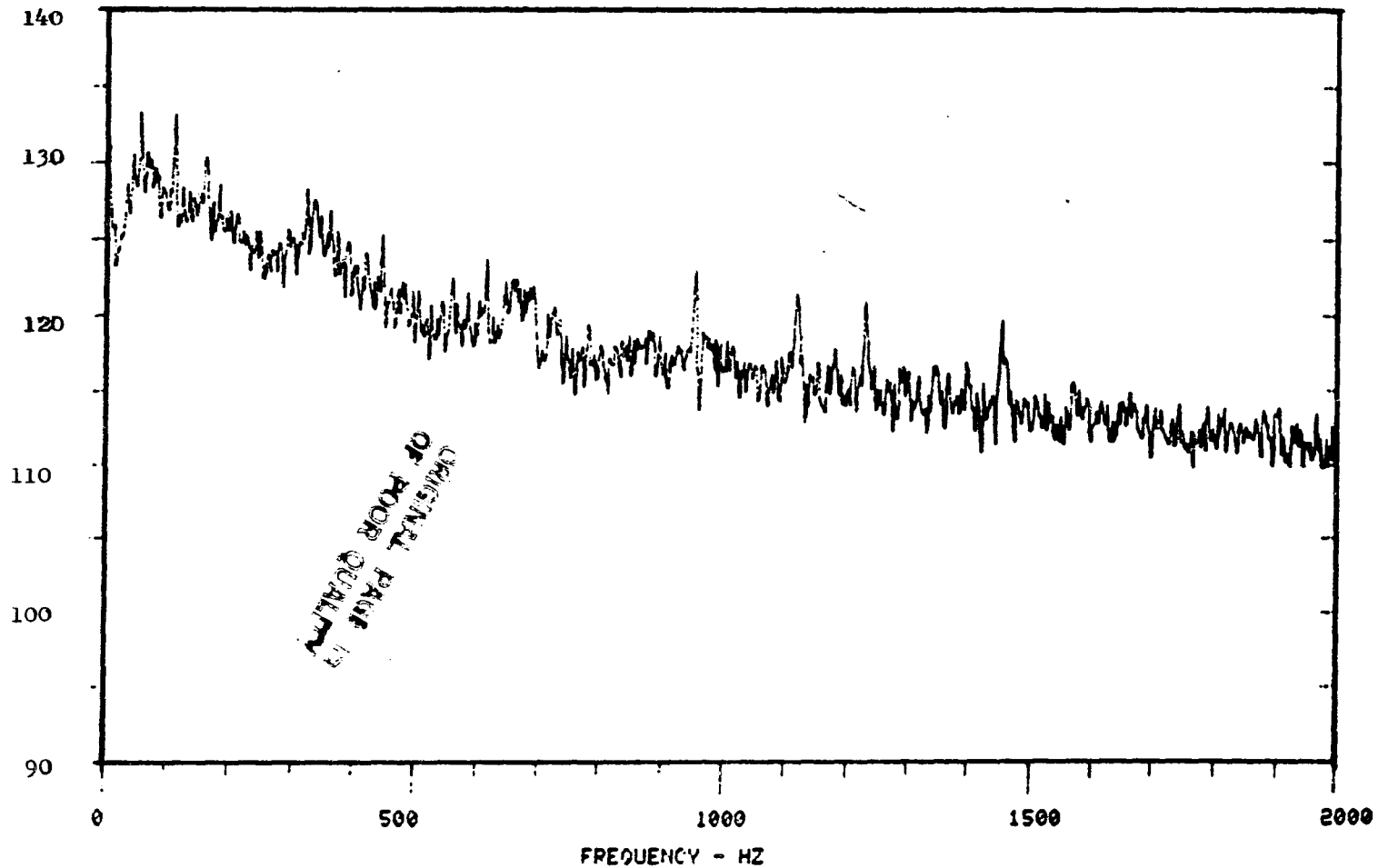
KULITE 22
RDG NO 565
FAN SPEED 3459 RPM
OAFPL 175.3 DB

RUN NO 2
X THRUST-85.54
G/S 1.7 5.00000
BS/GR 4000/ 8102

162

CF6-50 CORE NOISE PROGRAM

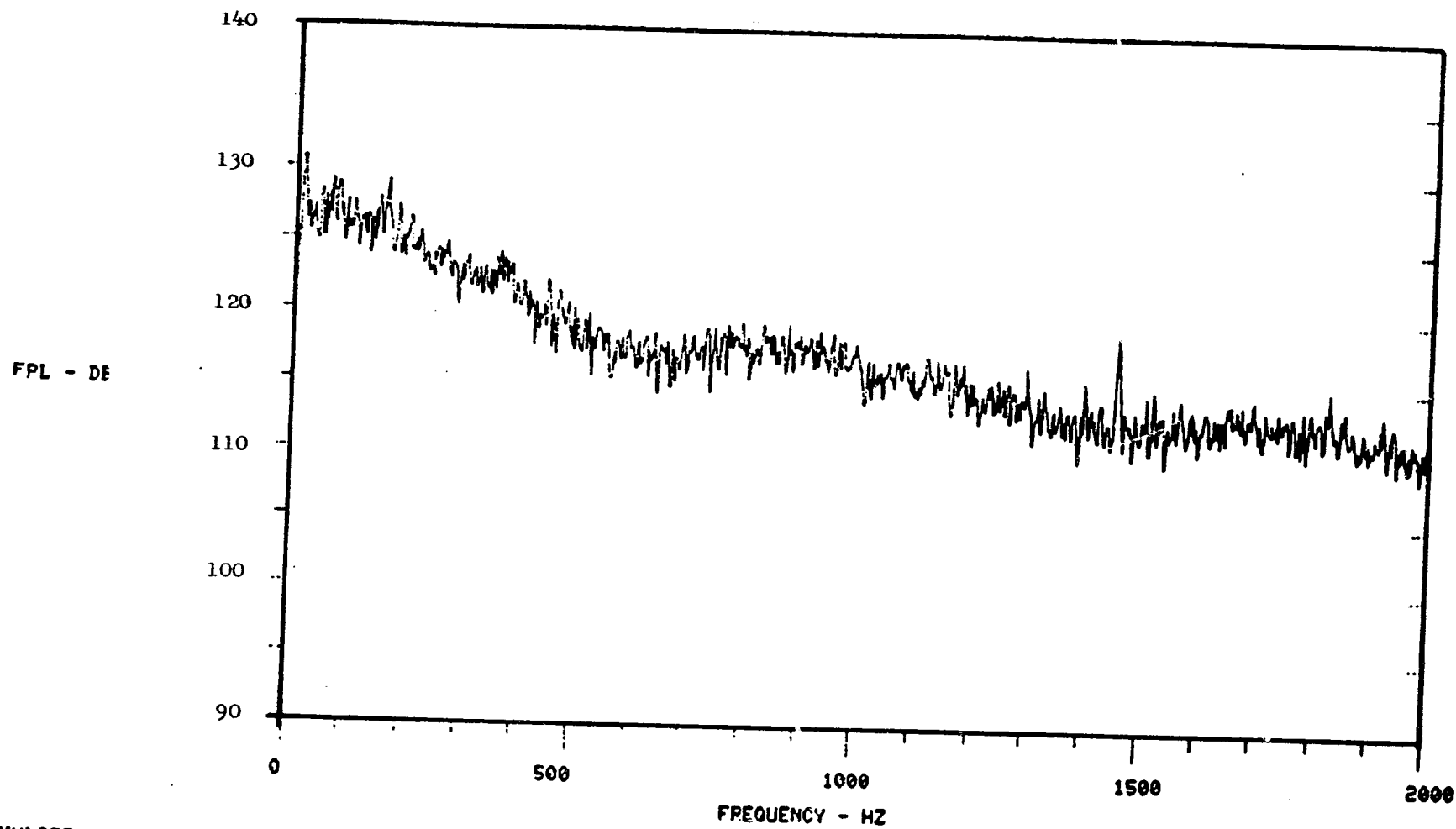
FPL - DB



KULITE 24
RDG NO 565
FAN SPEED 3459 RPM
OAFPL 151.3 DB

RUN NO 2
x THRUST-85.54
G/S 1. / 5.00000
86/SR 4096/ 8192

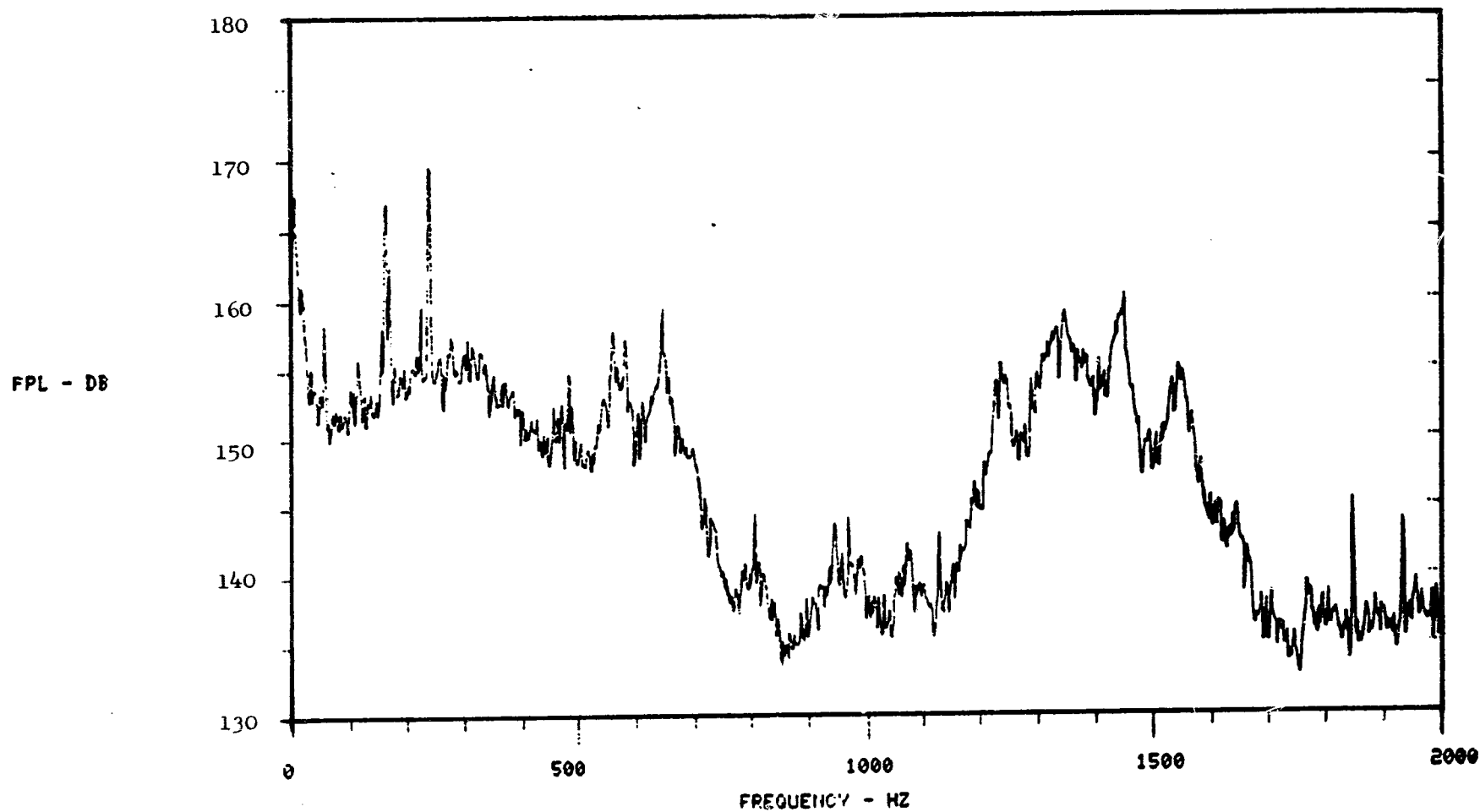
CF6-50 CORE NOISE PROGRAM



KULITE 26
RDG NO 565
FAN SPEED 3459 RPM
OAFPL 149.9 DB
163

RUN NO 2
X THRUST-85.54
G/S 1. / 5.00000
BS/SR 4096 / 8192

CF6-50 CORE NOISE PROGRAM

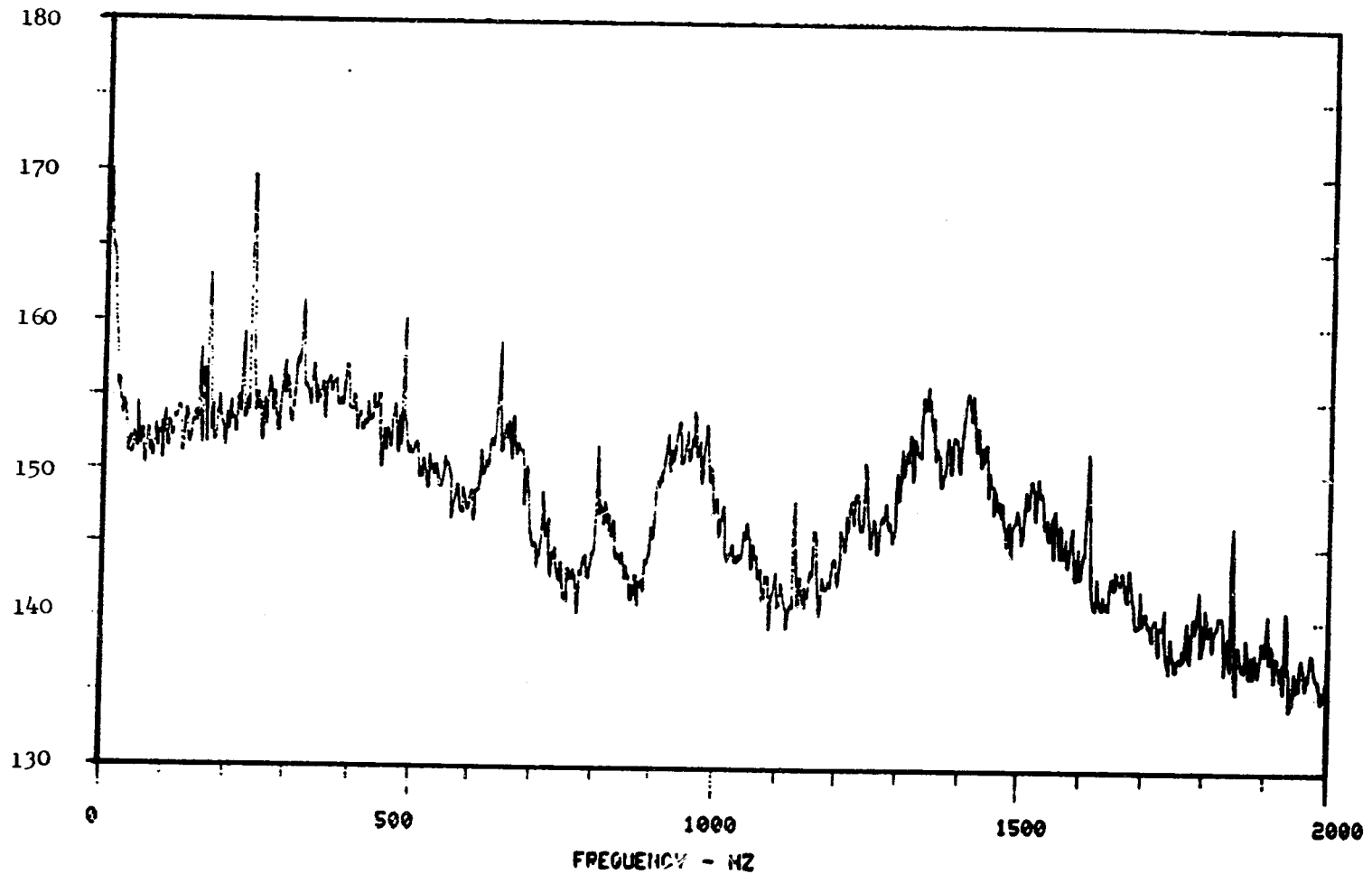


KULITE 23
RDG NO 565
FAN SPEED 3459 RPM
CAFPL 182.4 DB

RUN NO 2
x THRUST-85.54
G/S 1. / 1.00000
BS/SR 4096/ 8192

CF6-50 CORE NOISE PROGRAM

FPL - 12

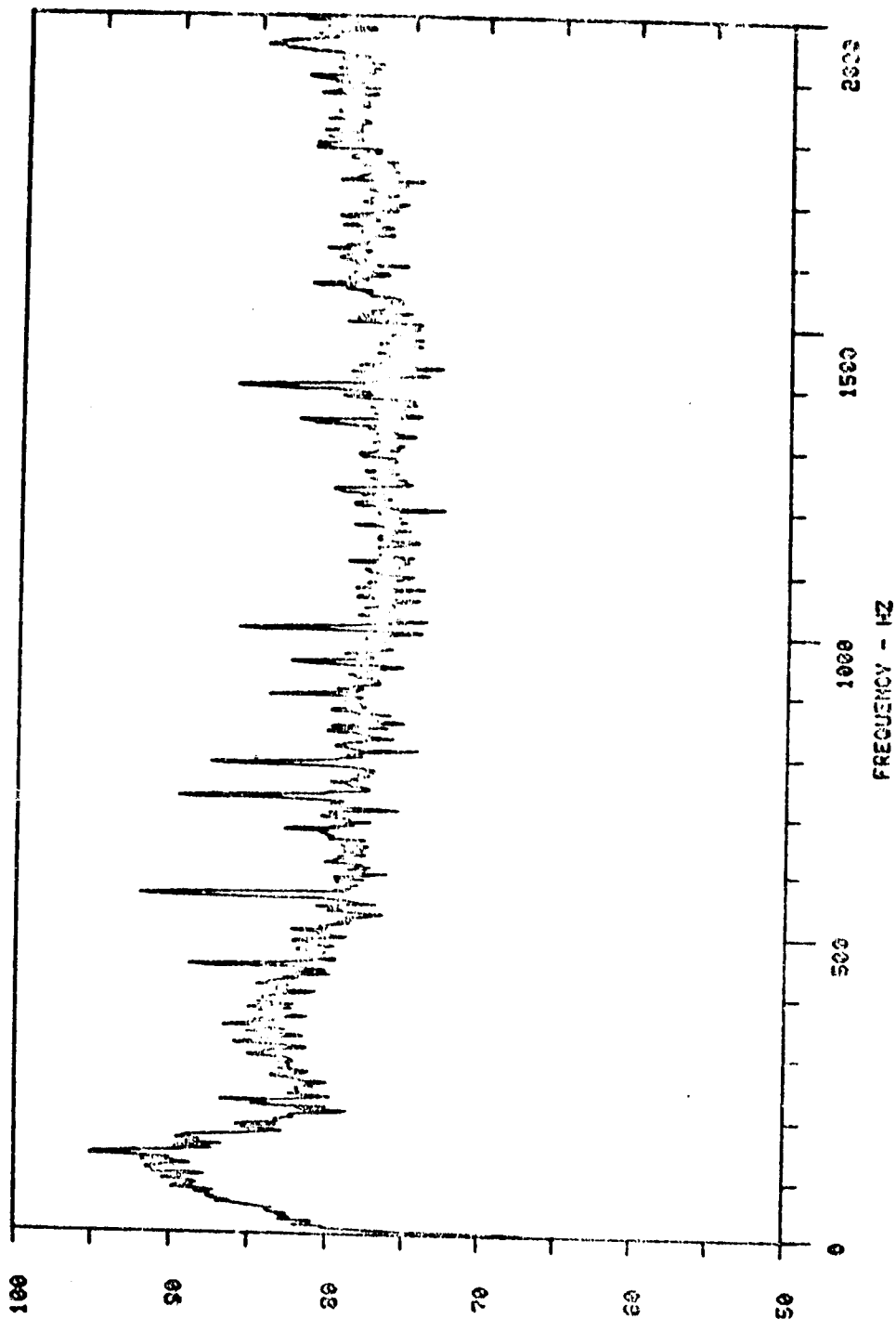


KULITE 25
RDG NO 565
FAN SPEED 3459 RPM
OAFPL 182.4 DB

165

RUN NO 2
* THRUST=85.54
G/S 1./ 1.00000
BS/SR 4096/ 8192

CF6-50 CORE NOISE PROGRAM.



166

SPL - DB

REC 10 DEG

REQ NO 585

FAN SPEED 3459 RPM

GRASP 111.9 DB

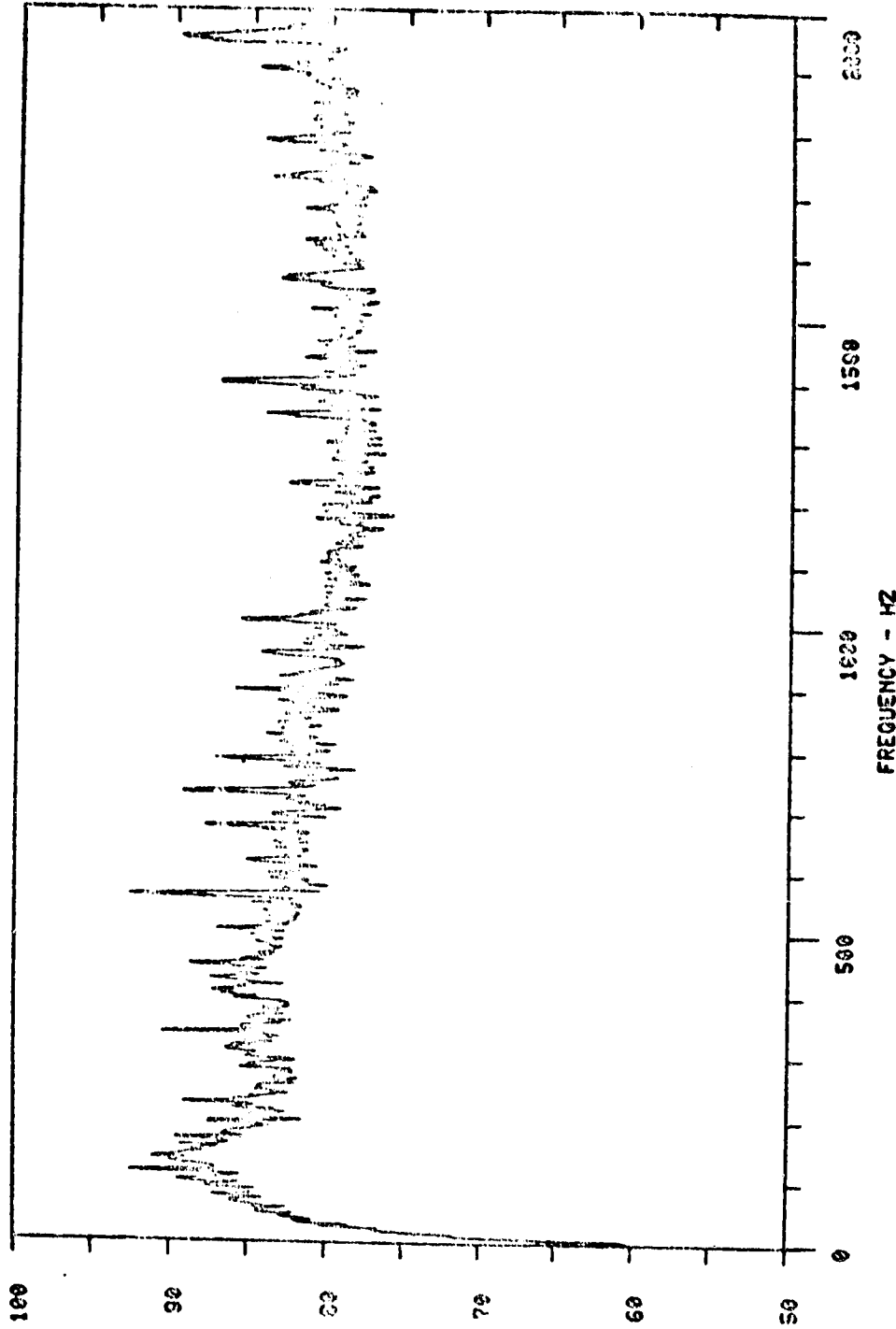
RUN NO 2

X THRUST-89.54

G/S 1.7 0.0000

DC/CR 4000/ 8152

CF6-50 CORE NOISE PROGRAM.

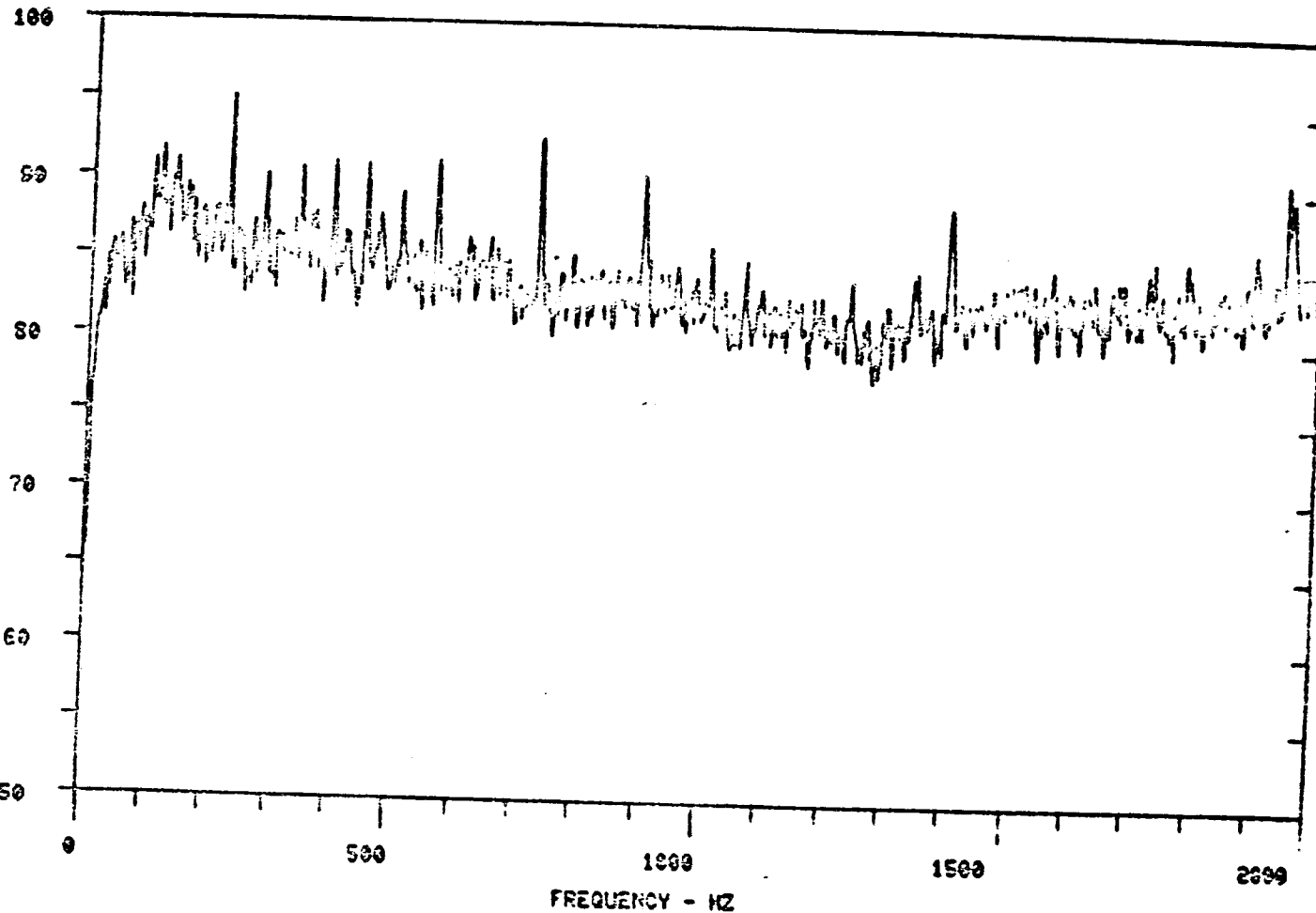


NIC 30 DEG
REG NO 585
FAN SPEED 3459 RPM
CYC/L 112.8 DB

RLN NO 2
X TRUST-85.54
G/S 1.7 0.60355
DR/SR 4586/ 8182

168

CF6-50 CORE NOISE PROGRAM.



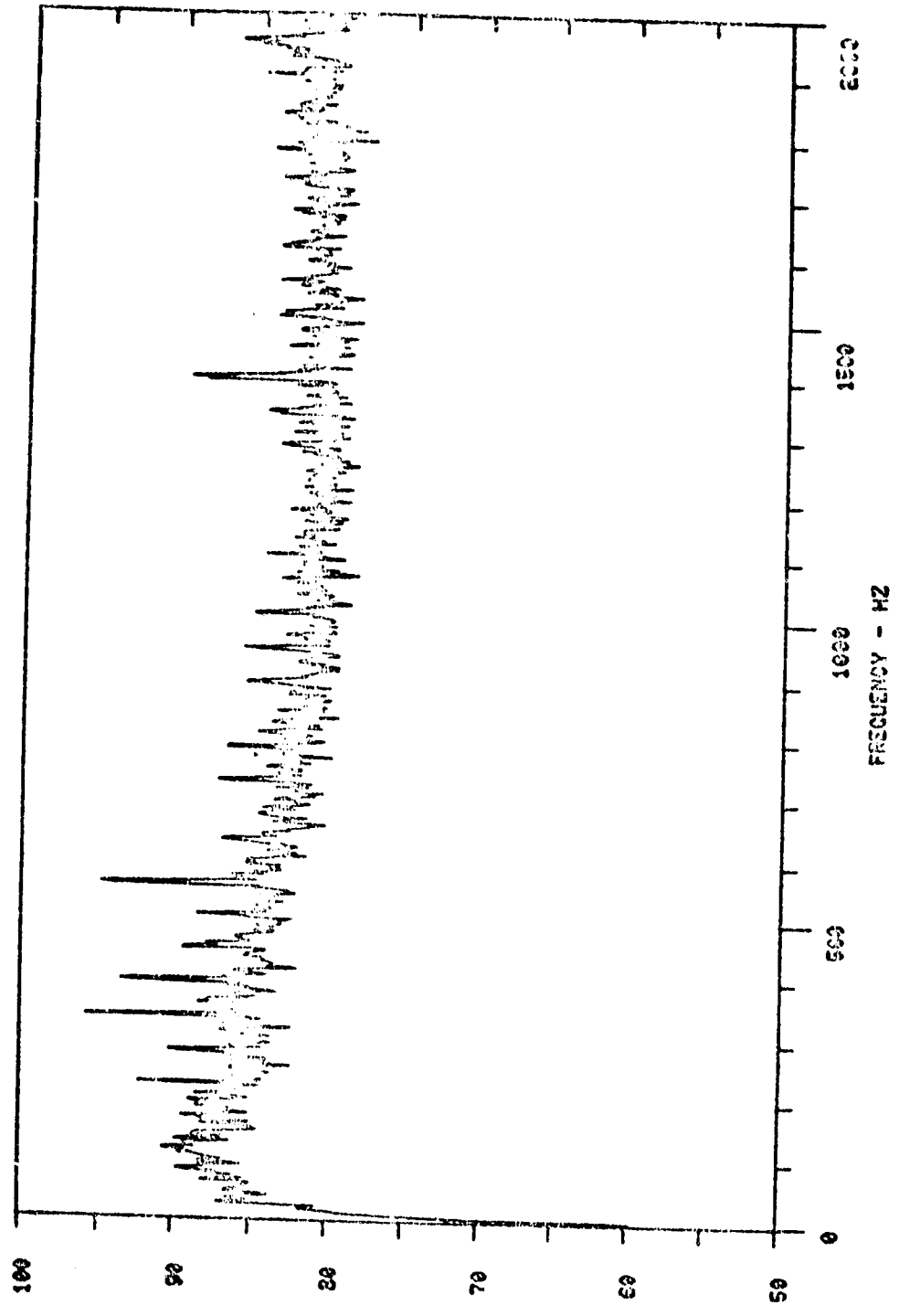
991 - 08

ORIGINAL PAGE IS
OF POOR QUALITY

MIC 49 DEG
REG NO 565
FAN SPEED 3459 RPM
GNDPL 114.3 DB

RUN NO 2
% THRUST-85.84
G/S 1.7 0.00325
BS/SR 4030/ 8102

CF6-50 CORE NOISE PROGRAM.

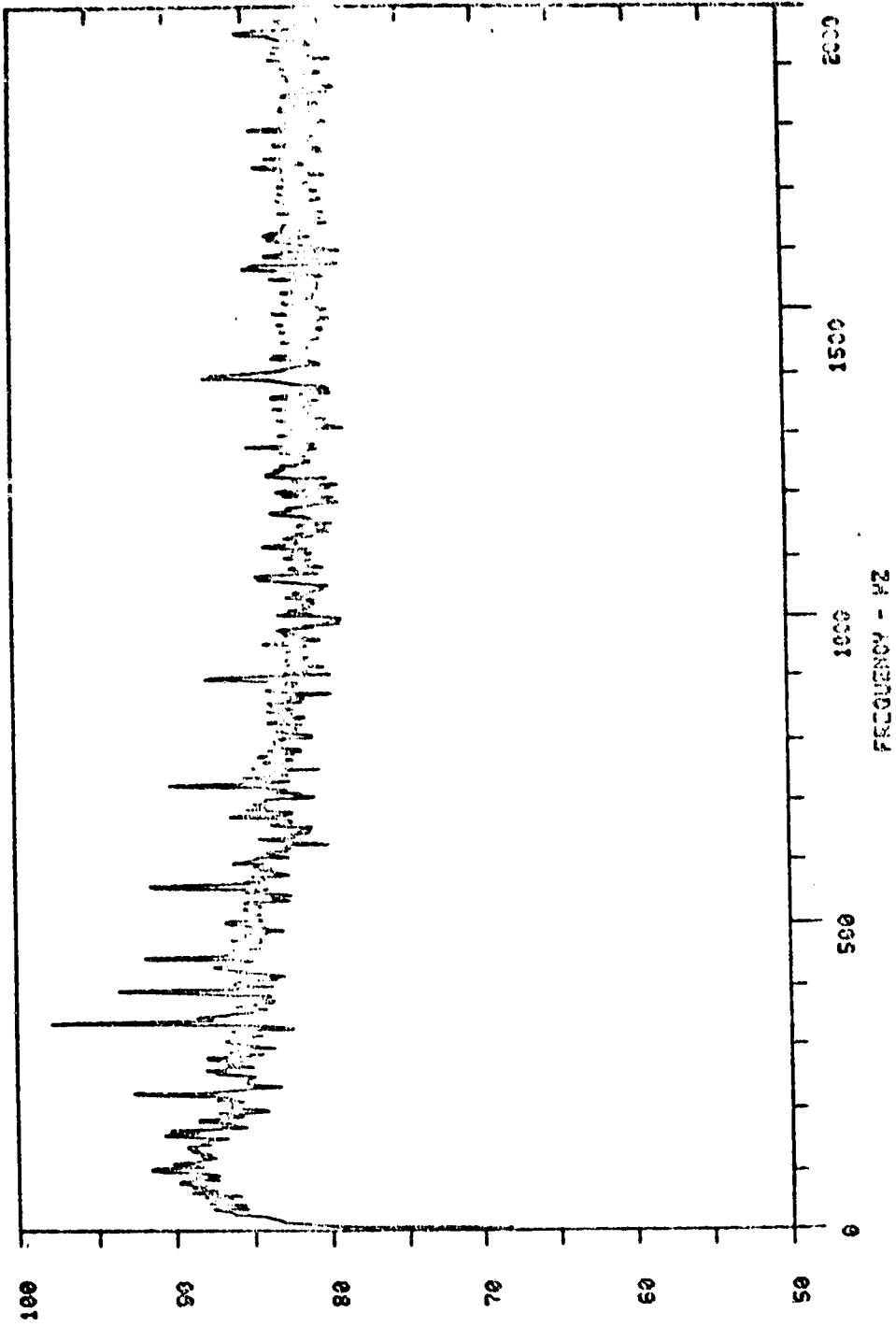


SPL - DB

MIC 50 DEG
R00 NO 565
FAM SPEED 3459 RPM
C001L 113.9 D2
L169

RUN NO 2
X TRANSFER 85.64
G/S 1.7 0.0000
20/02 4628/ 0102

CF6-50 CORE NOISE PROGRAM.



170

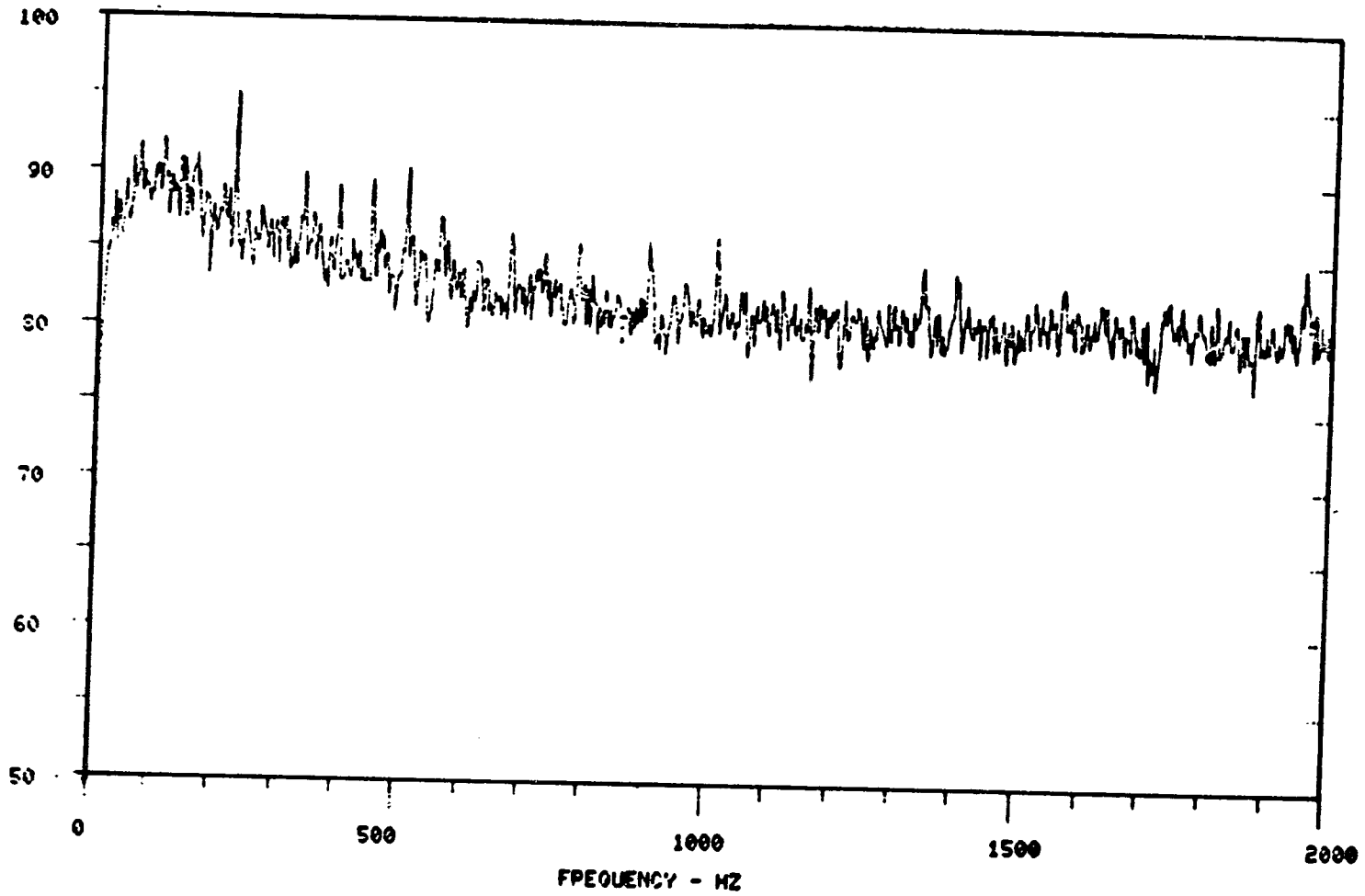
SPL - DB

MIC 60 DEG
RDG NO 505
FAN SPEED 3459 RPM
OACPL 114.3 DB

RUN NO 2
X TRUCT-23-5A
G/S 1.7 6.0005
SS/CR 4027 8153

CF6-50 CORE NOISE PROGRAM

SPL - DE



MIC 70 DEG
RDG NO 565
FAN SPEED 3459 RPM
OASPL 113.6 DB

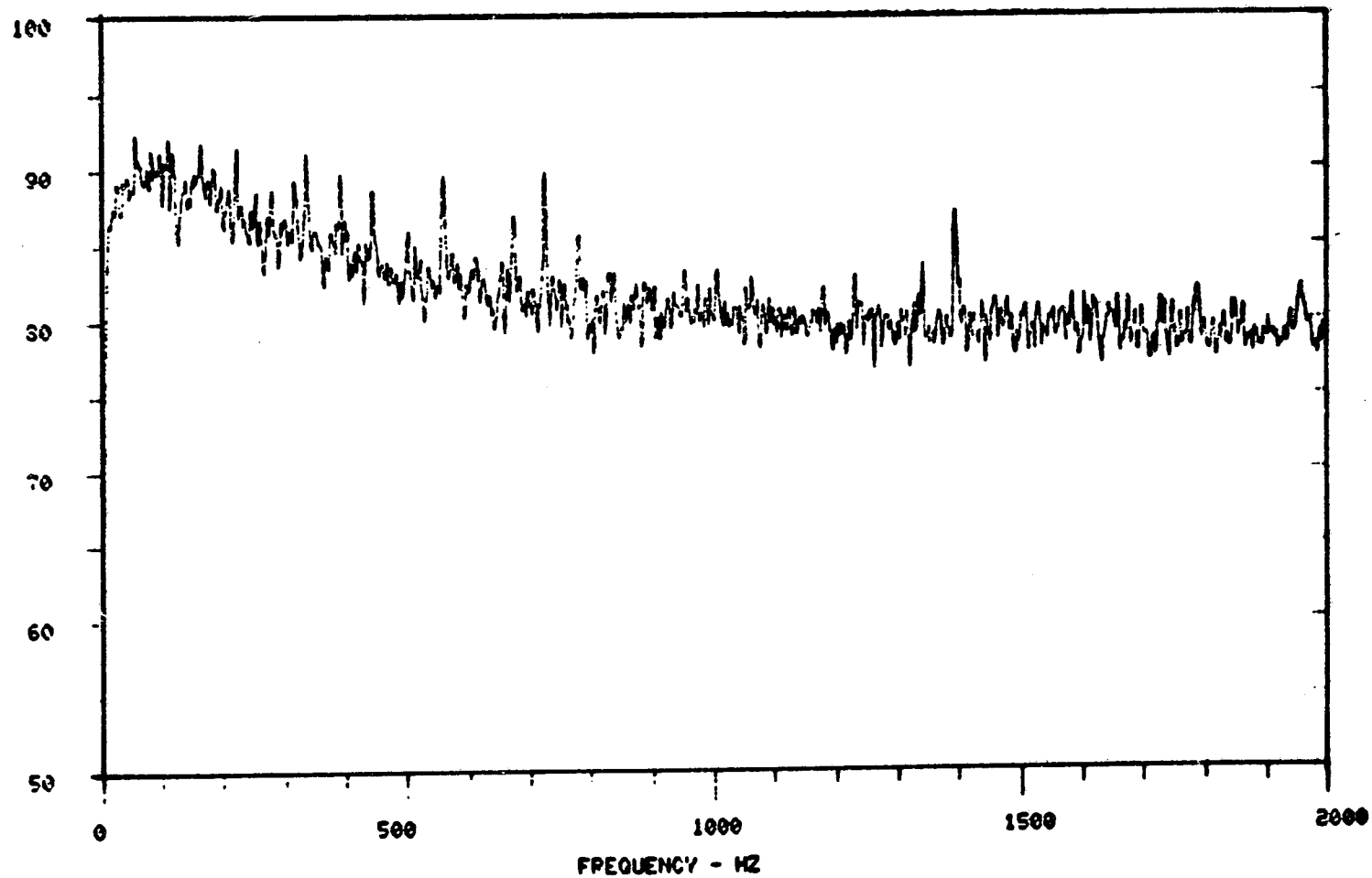
171

RUN NO 2
X THRUST=85.54
G/S 1. / 0.00325
BS/SR 4096/ 8192

CF6-50 CORE NOISE PROGRAM

172

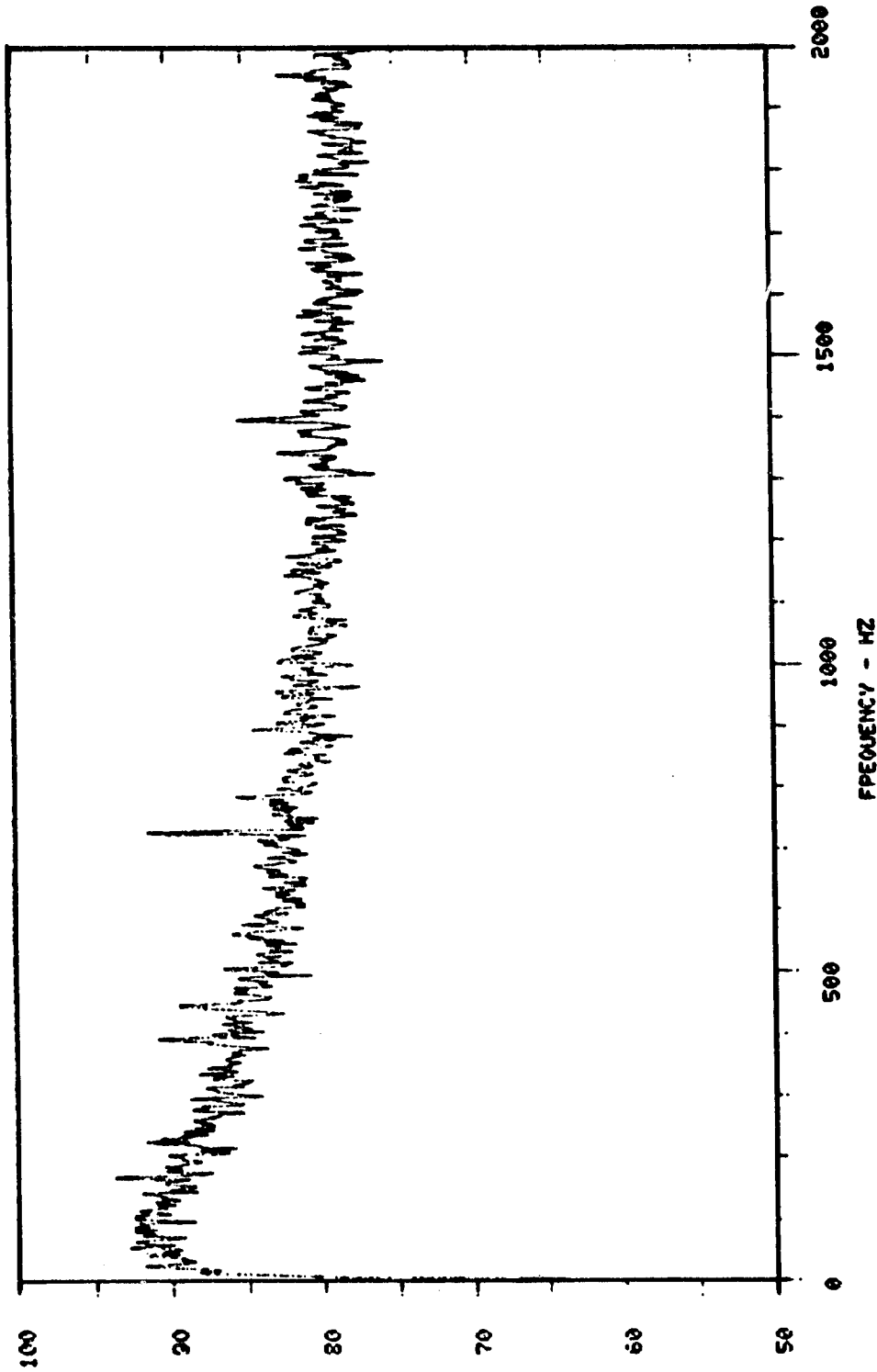
SPL - DB



MIC 80 DEG
RDG NO 565
FAN SPEED 3459 RPM
OASPL 113.6 DB

RUN NO 2
* THRUST=25.54
Q/S 1./ 0.00325
BS/SR 4096/ 8192

CF6-50 CORE NOISE PROGRAM



SPL - DB

MIC 90 DEG
RDG NO 565
FAN SPEED 3459 RPM
OASPL 114.3 DB

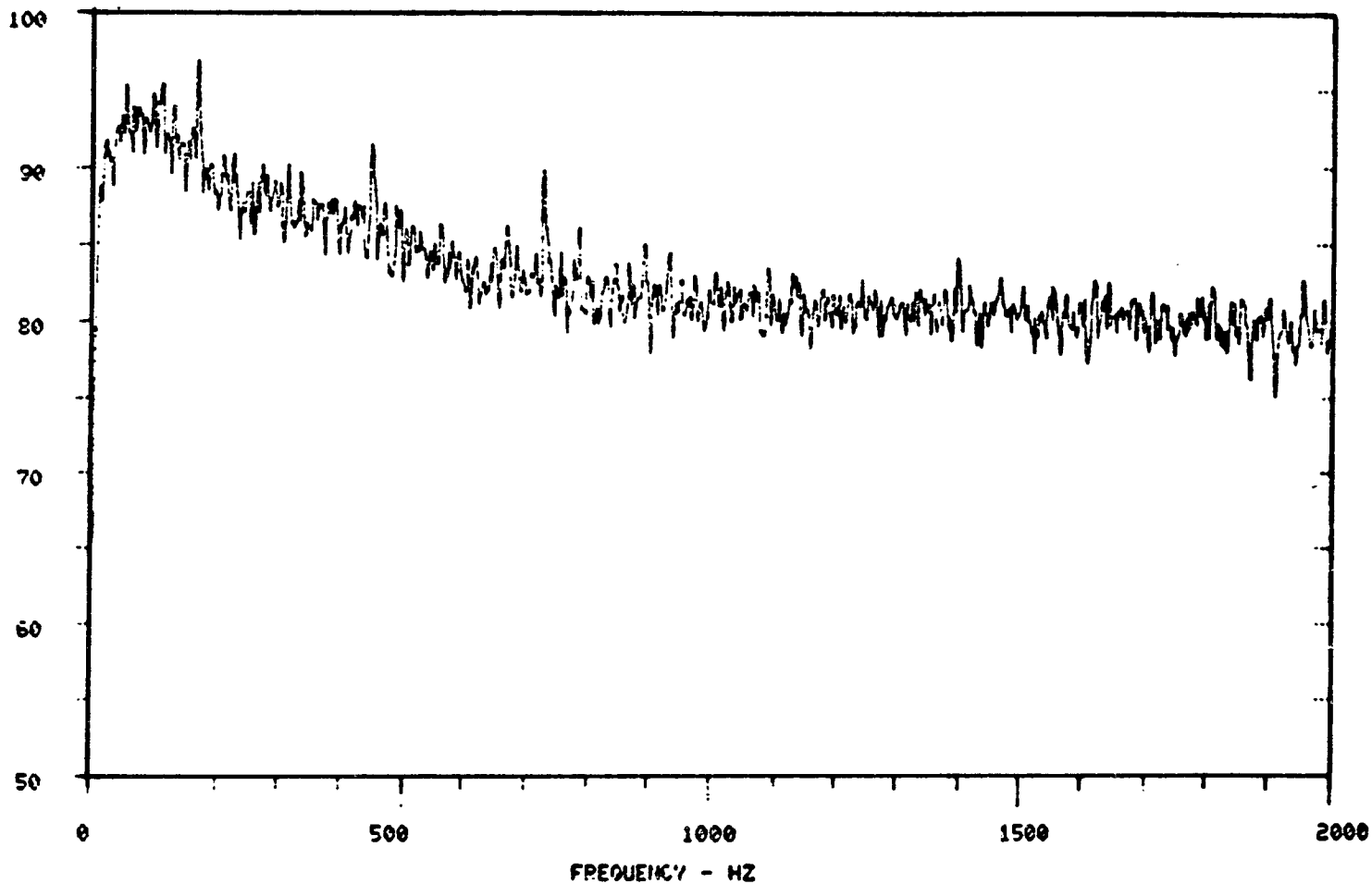
173

RUN NO 2
X THRUST=85.54
G/S 1.7 0.00325
BS/SR 4096/ 8192

174

CF6-50 CORE NOISE PROGRAM

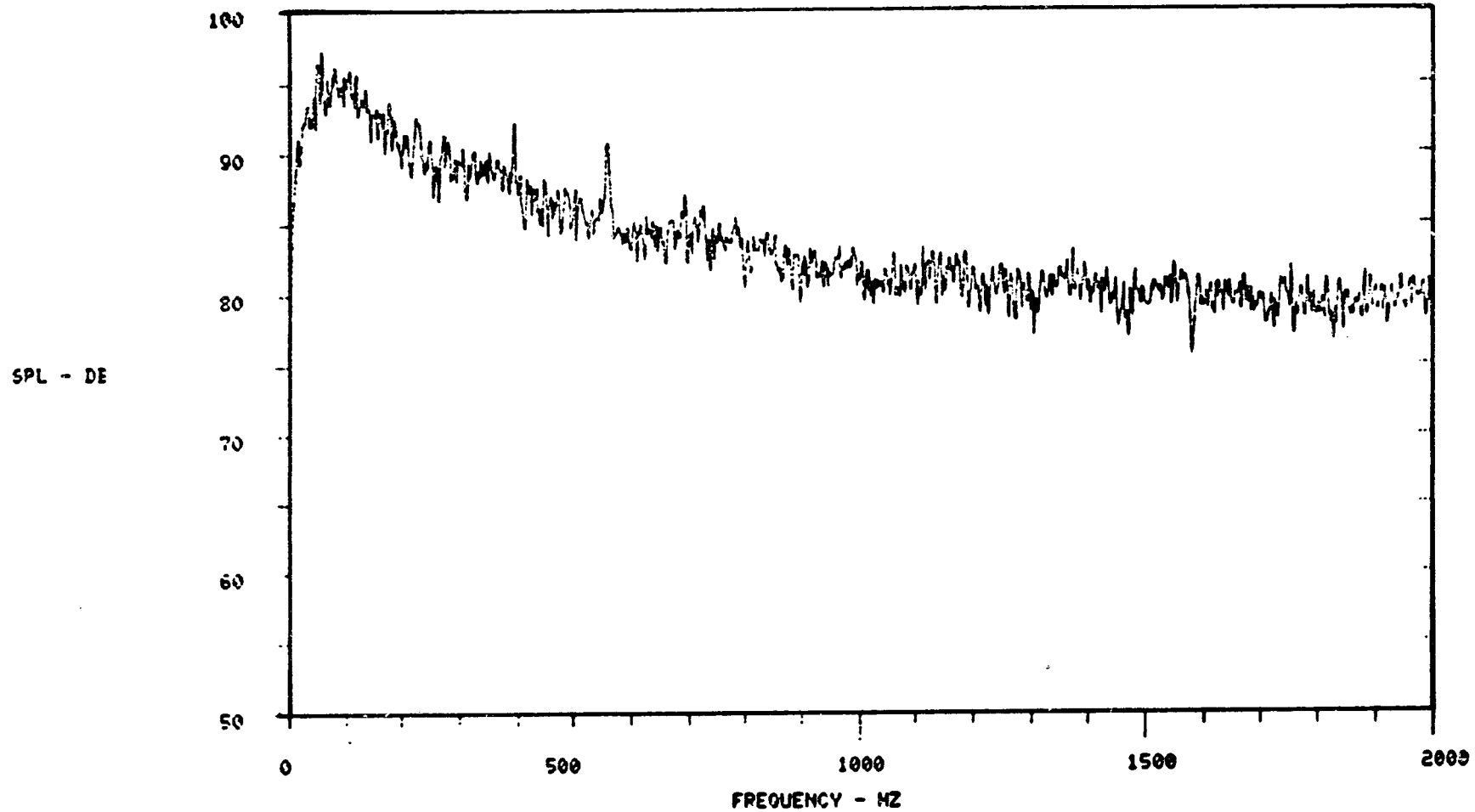
SPL - DB



MIC 100 DEG
RDG NO 565
FAN SPEED 3450 RPM
OASPL 115.3 DB

RUN NO 2
* THRUST=85.54
G/S 1. / 0.00325
SS/SR 4096 / 8192

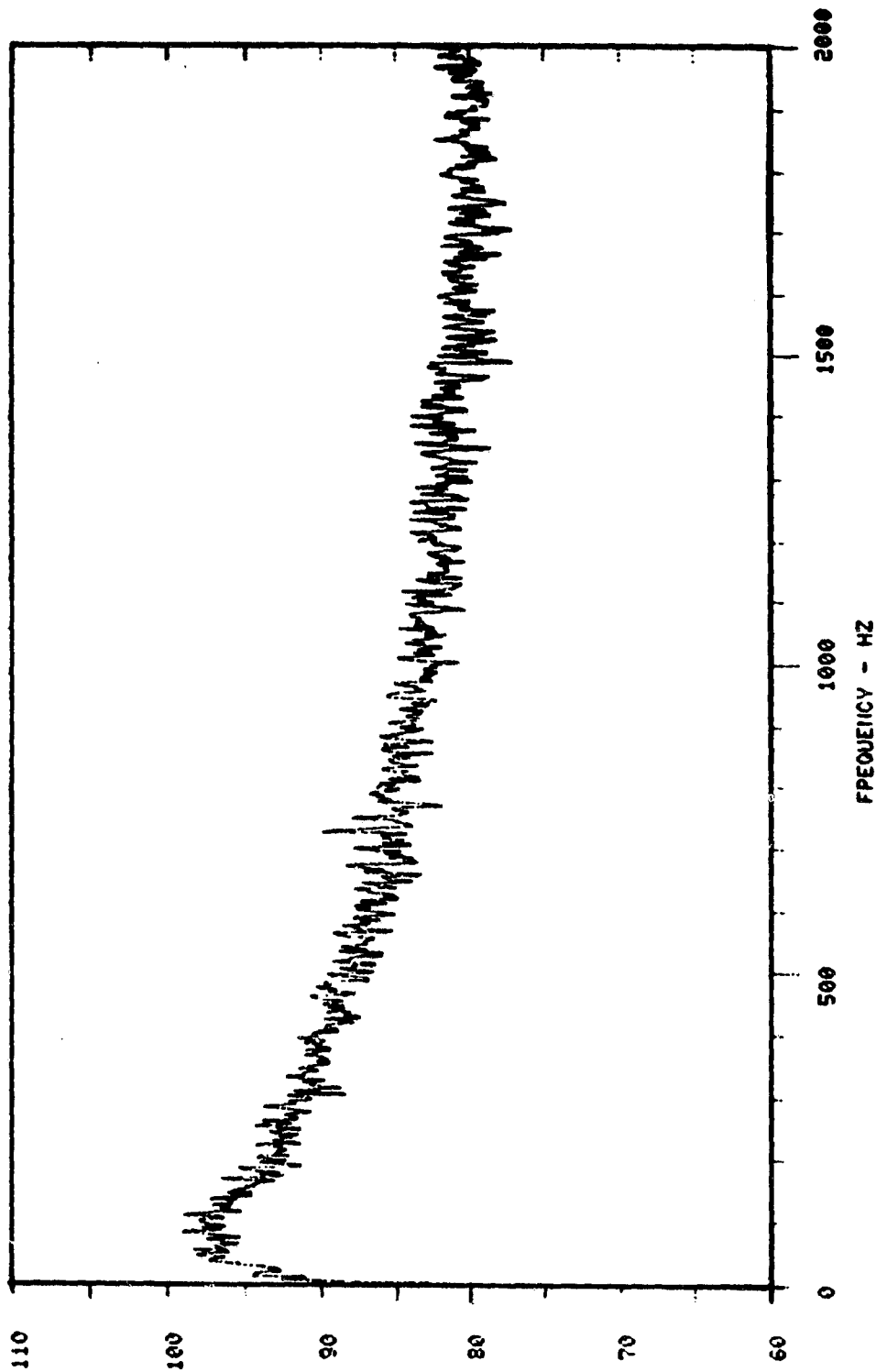
CF6-50 CORE NOISE PROGRAM



MIC 110 DEG
RDG NO 565
FAN SPEED 3459 RPM
OASPL 116.5 DB
175

RUN NO 2
% THRUST=85.54
G/S 1./ 0.00325
BS/SR 4096/ 8192

CF6-50 CORE NOISE PROGRAM.



176

SPL - DB

MIC 120 DEG

RDG NO 565

FAN SPEED 3459 RPM

OASPL 118.6 DB

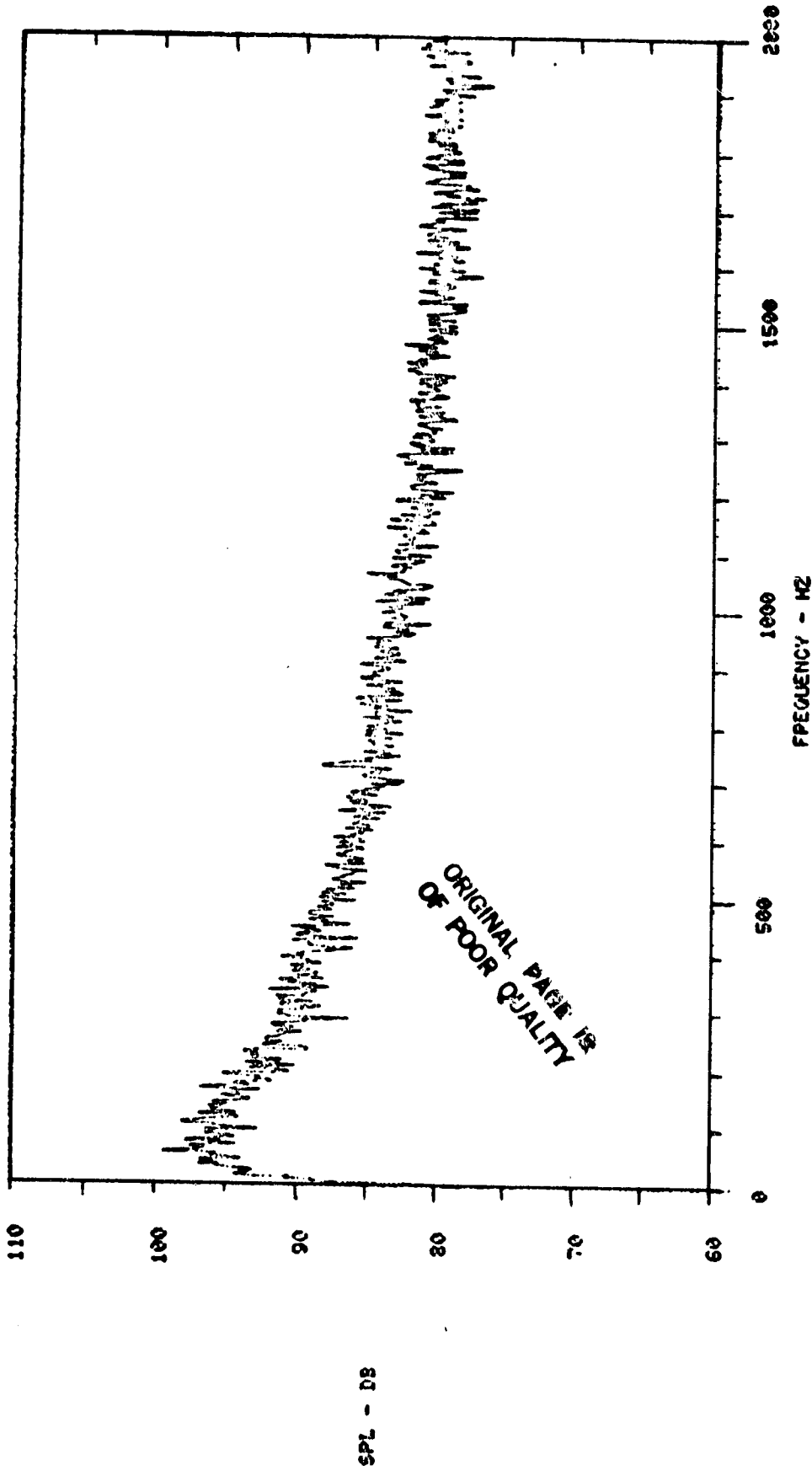
PUN NO 2

X THRUST-86.54

G/S 1./ 0.00385

BS/SR 4096/ 8192

CF6-50 CORE NOISE PROGRAM.

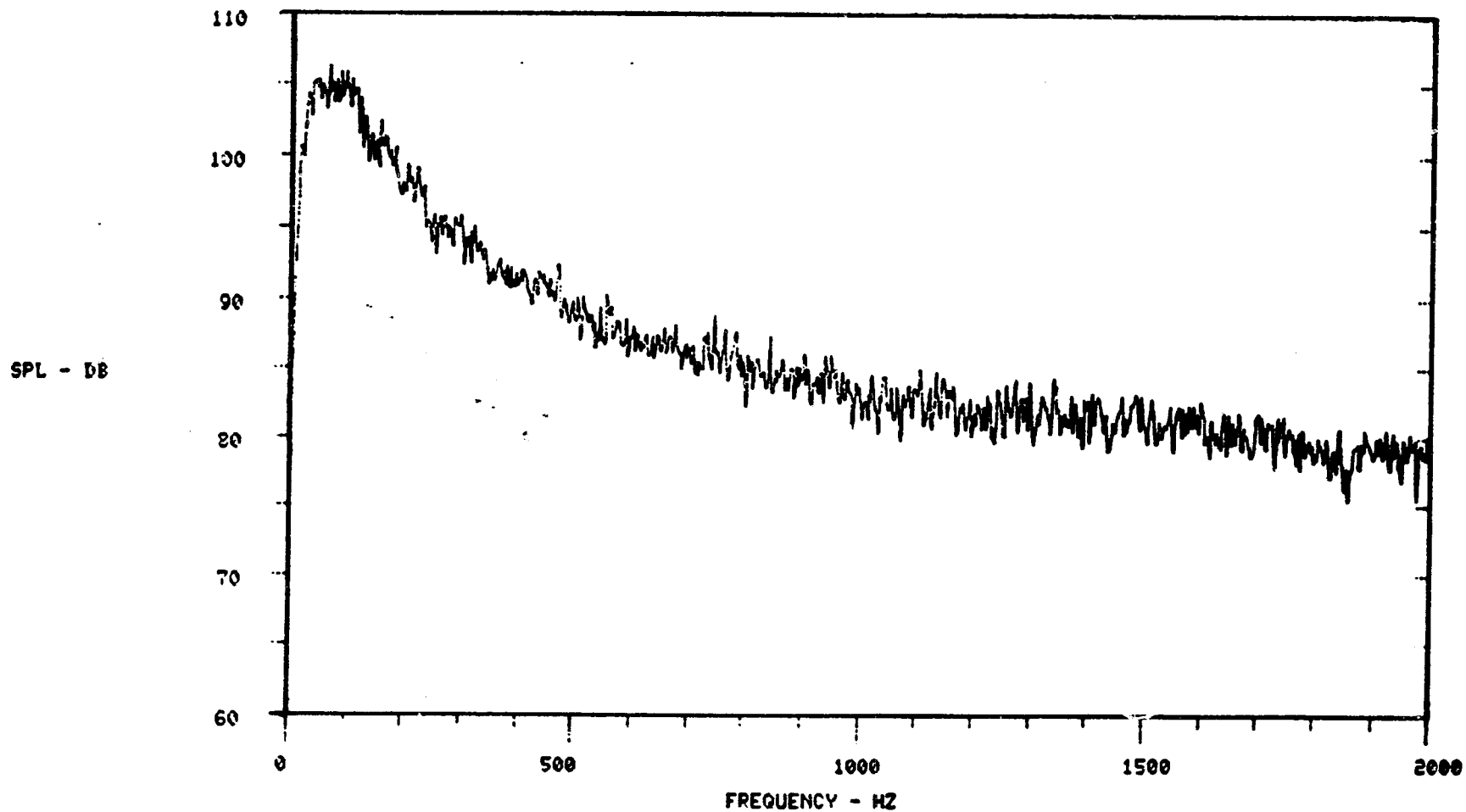


NIC 130 DEG
RDC NO 565
FAN SPEED 3450 RPM
OASPL 117.9 DB
177

RUN NO 2
X THRUST=85.54
G/S 1.7 0.00325
BS/SR 4096/ 8192

178

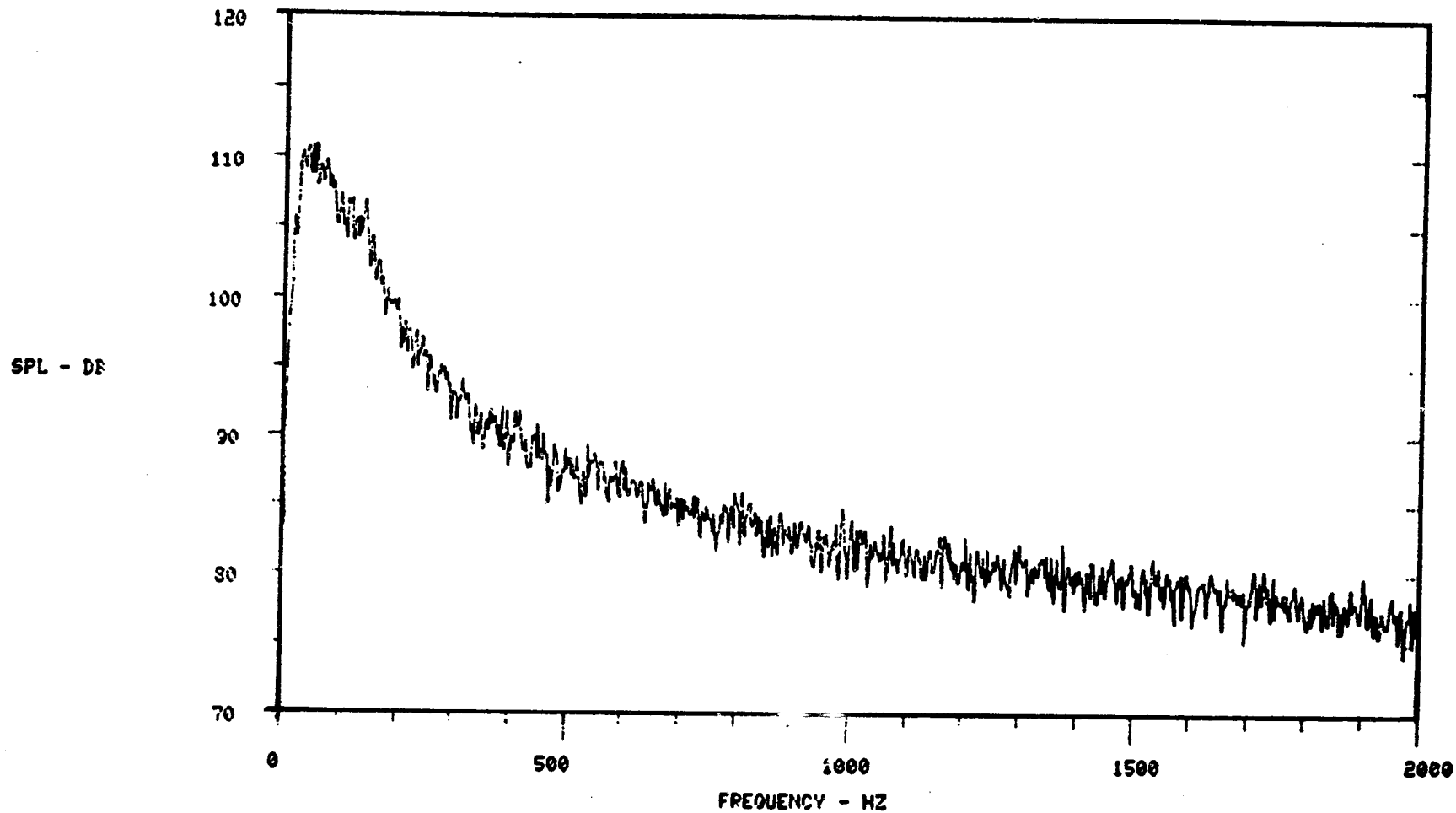
CF6-50 CORE NOISE PROGRAM.



MIC 140 DEG
RDG NO 565
FAN SPEED 3459 RPM
OASPL 123.7 DB

RUN NO 2
X THRUST=85.54
G/S 1. / 0.01028
BS/SR 4096/ 8192

CF6-50 CORE NOISE PROGRAM.

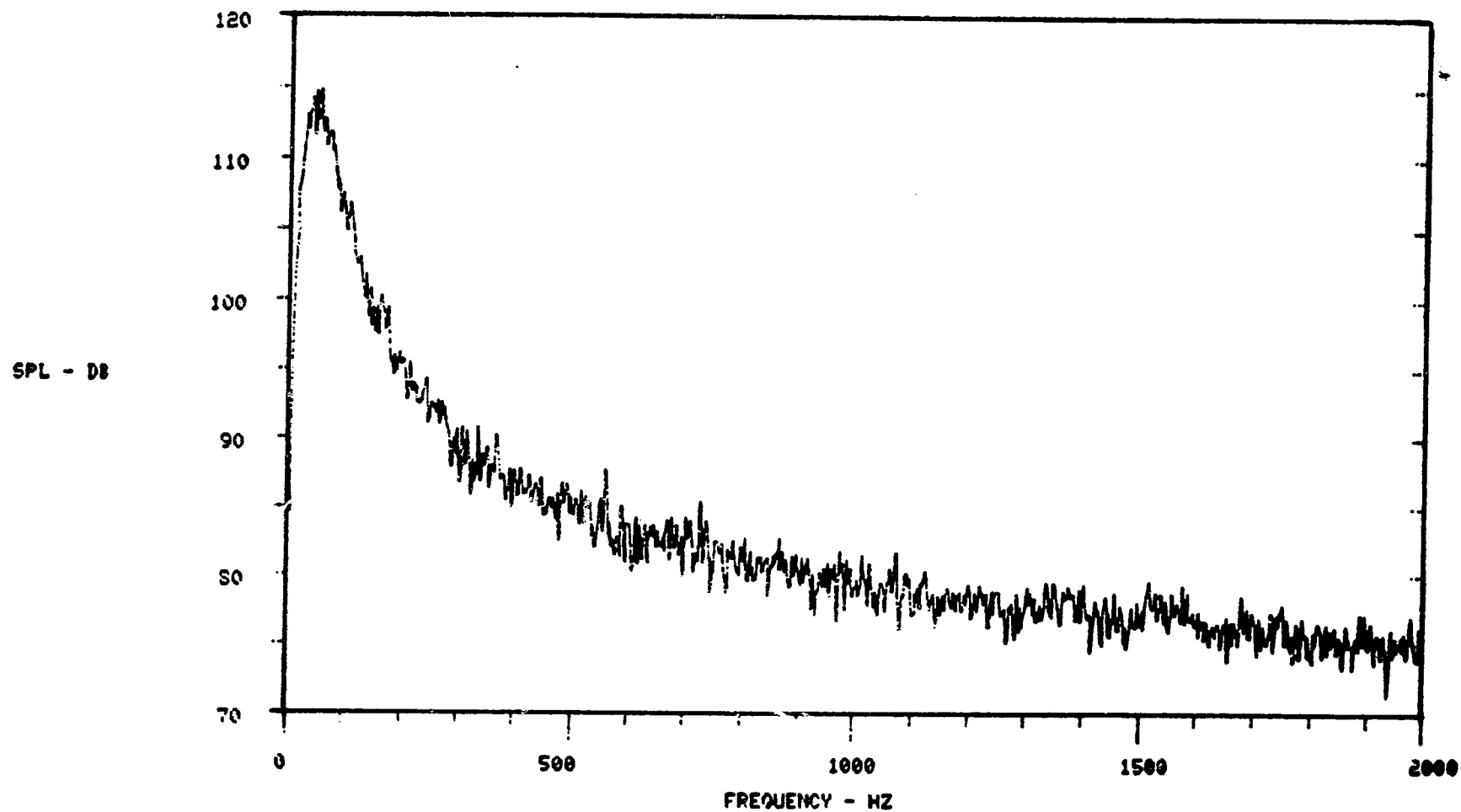


MIC 150 DEG
RDG NO 565
FAN SPEED 3459 RPM
OASPL 126.6 DB
179

RUN NO 8
x THRUST=85.54
G/S 1./ 0.01028
BS/SR 4096/ 8192

180

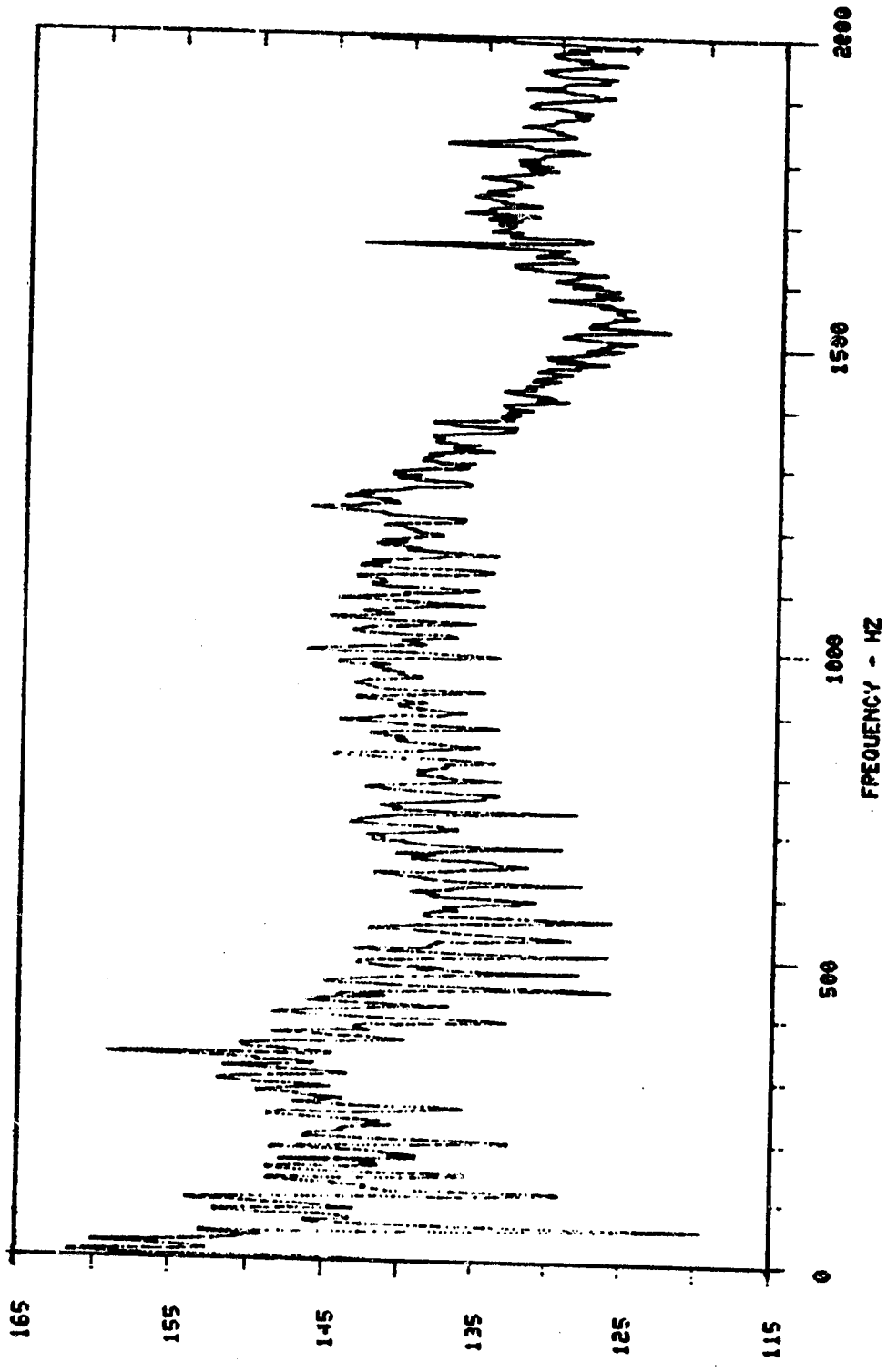
CF6-50 CORE NOISE PROGRAM.



MIC 160 DEG
RDG NO 565
FAN SPEED 3459 RPM
OASPL 128.5 DB

RUN NO 2
% THRUST=85.54
G/S 1. / 0.01088
BS/GR 4096/ 3192

CF6-50 CORE NOISE PROGRAM.



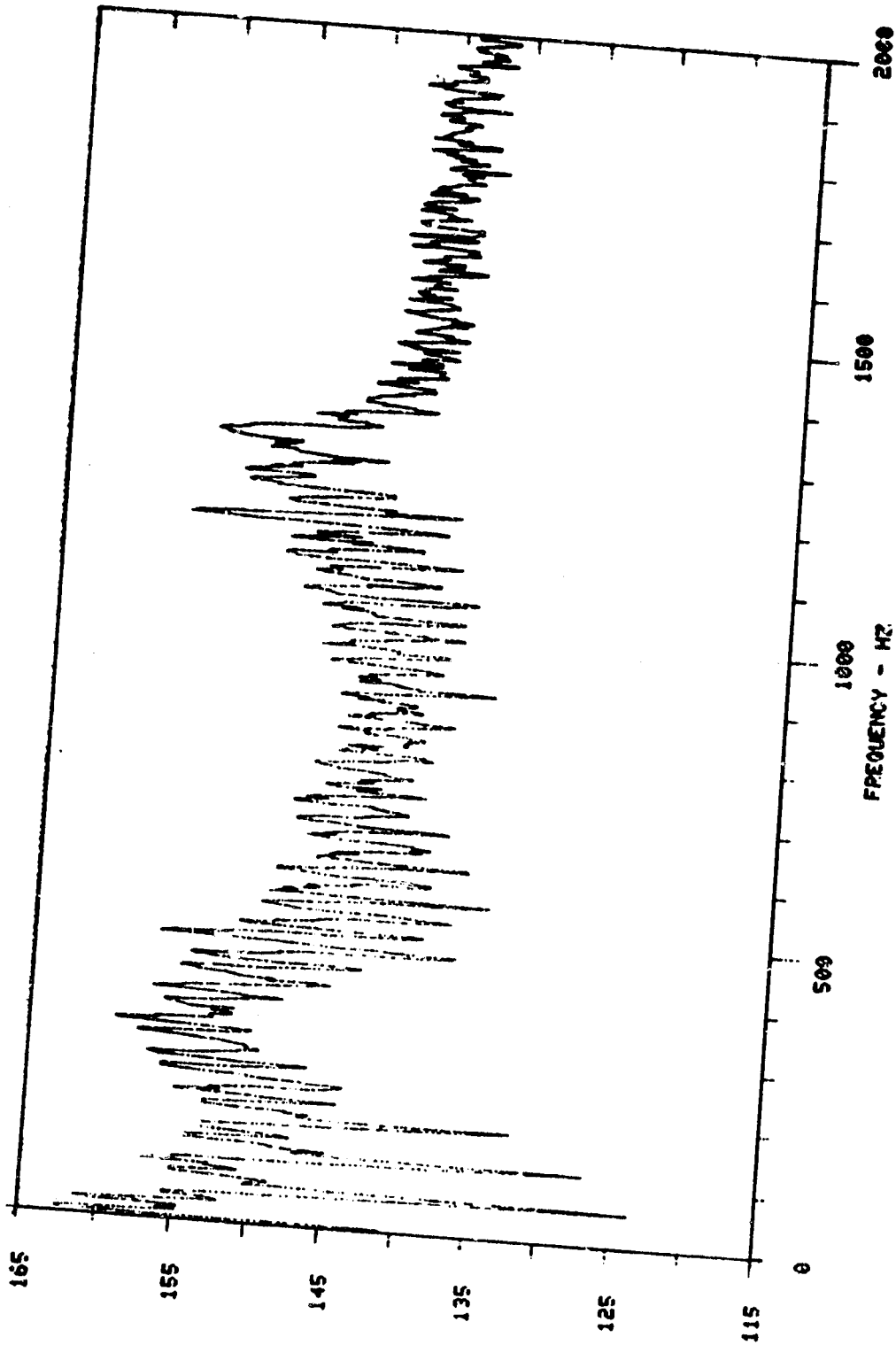
FPL - DE

ORIGINAL PAGE IS
OF POOR QUALITY

KULITE 18
RDG NO 567
FAN SPEED 3701 RPM
OAFPL 173.5 DB

RUN NO 3
X THRUST=99.87
Q/S 1.7 5.0000
SS/SR 4096/ 8192

CF6-50 CORE NOISE PROGRAM.

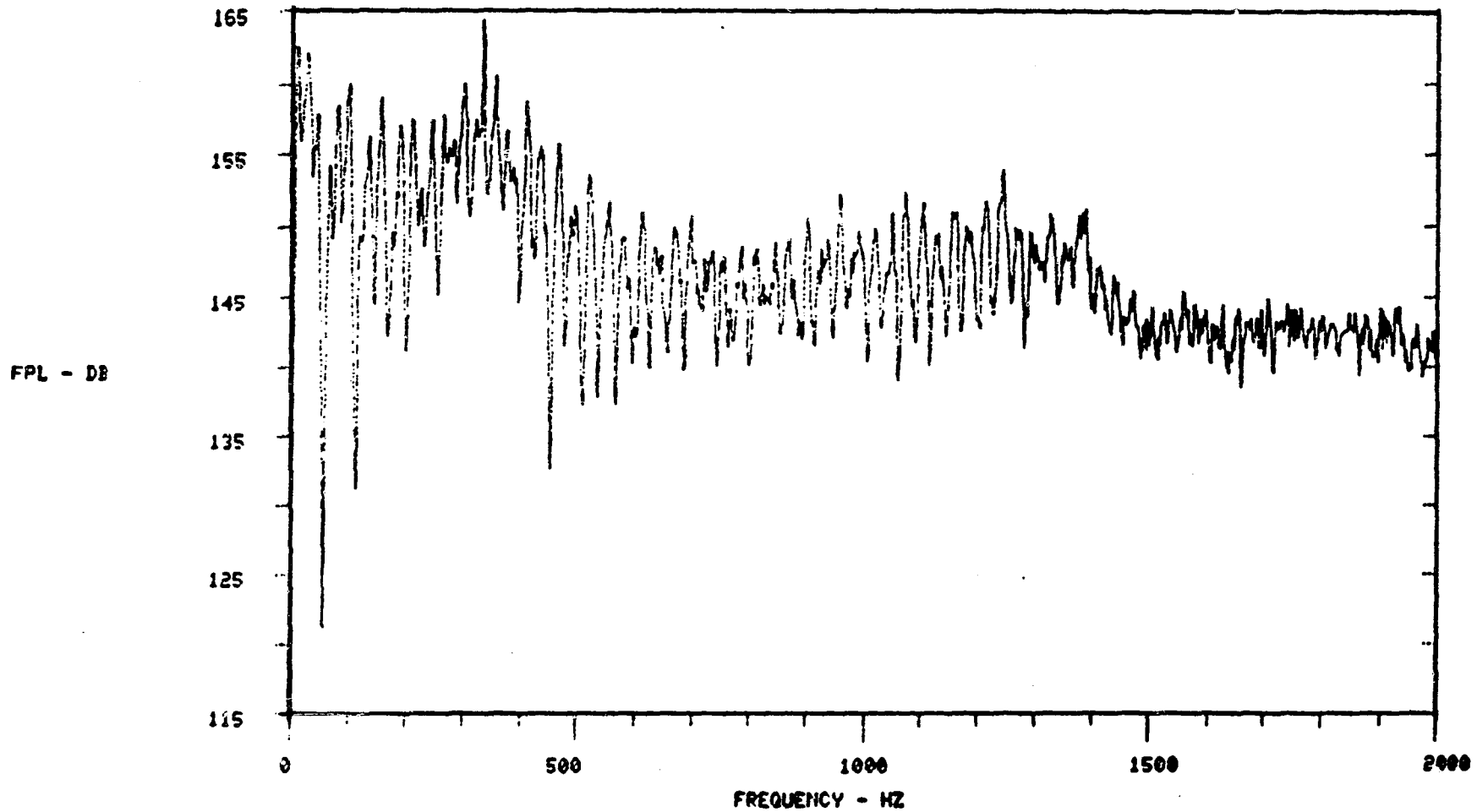


FPL - DB

KULITE 19
RDG NO 567
FAN SPEED 3701 RPM
OAEPL 178.7 DB

RUN NO 3
X THRUST-99.87
G/S 1.1/ 5.0000
DB/SR 4008/ 2192

CF6-50 CORE NOISE PROGRAM.

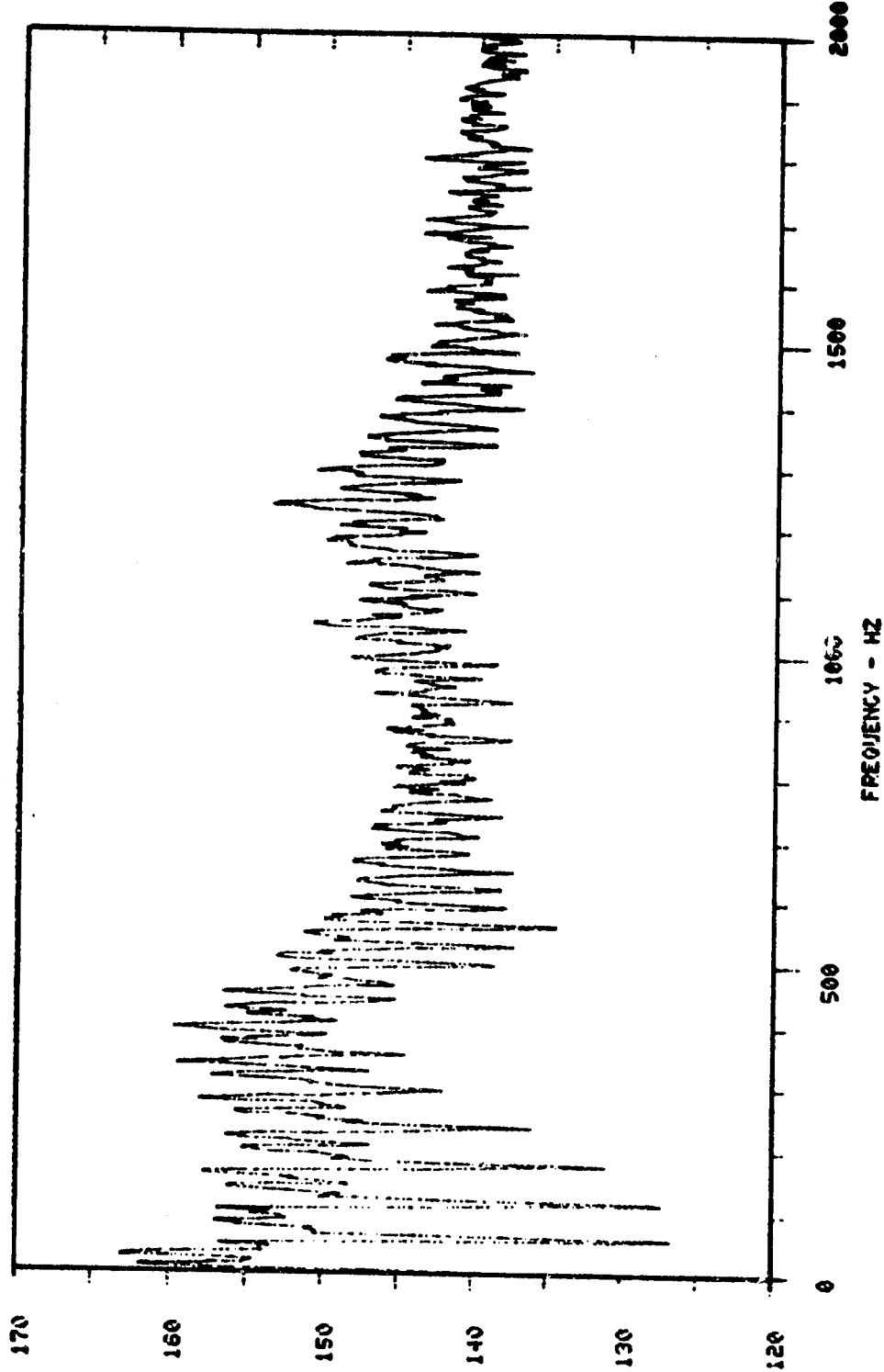


KULITE 20
RDG NO 567
FAN SPEED 3701 RPM
OAFPL 180.3 DB

183

RUN NO 3
X THRUST=99.87
Q/S 1./ 5.00000
BS/SR 4096/ 8192

CF6-50 CORE NOISE PROGRAM.



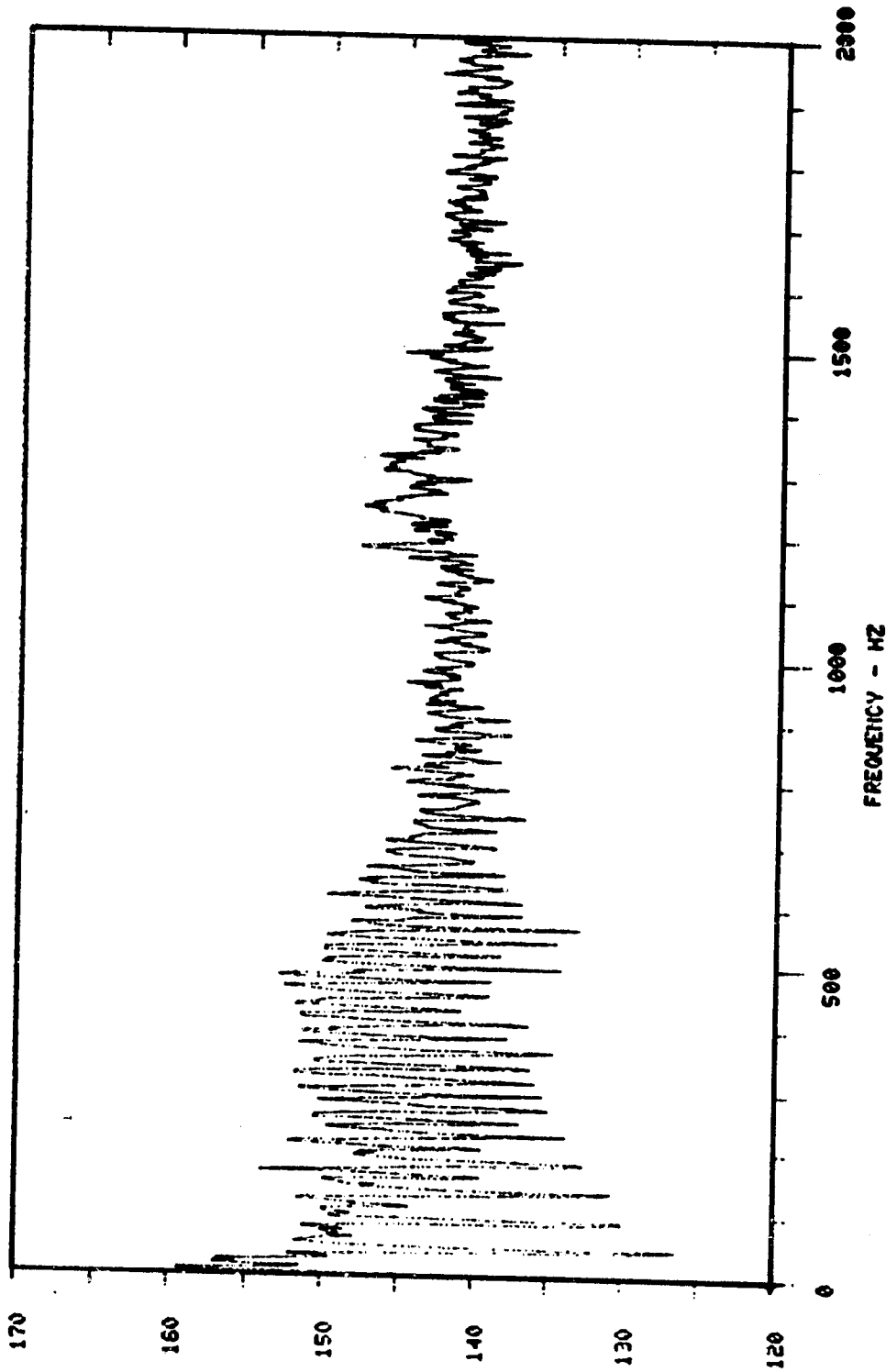
184

FPL - DB

KULITE 21
RDG NO 56T
FAN SPEED 3701 RPM
OAFPL 178.9 DB

RUN NO 3
X THRUST=99.87
G/S 1.1 5.0000
BS/SR 4028/ 8192

CF6-50 CORE NOISE PROGRAM.



RUN NO 3
x THRUST-99.87
Q/S 1./ 5.0000
BS/SR 4036/ 8198

KULITE 22
RDG NO 567
FAN SPEED 3701 RPM
OAFPL 175.2 DB

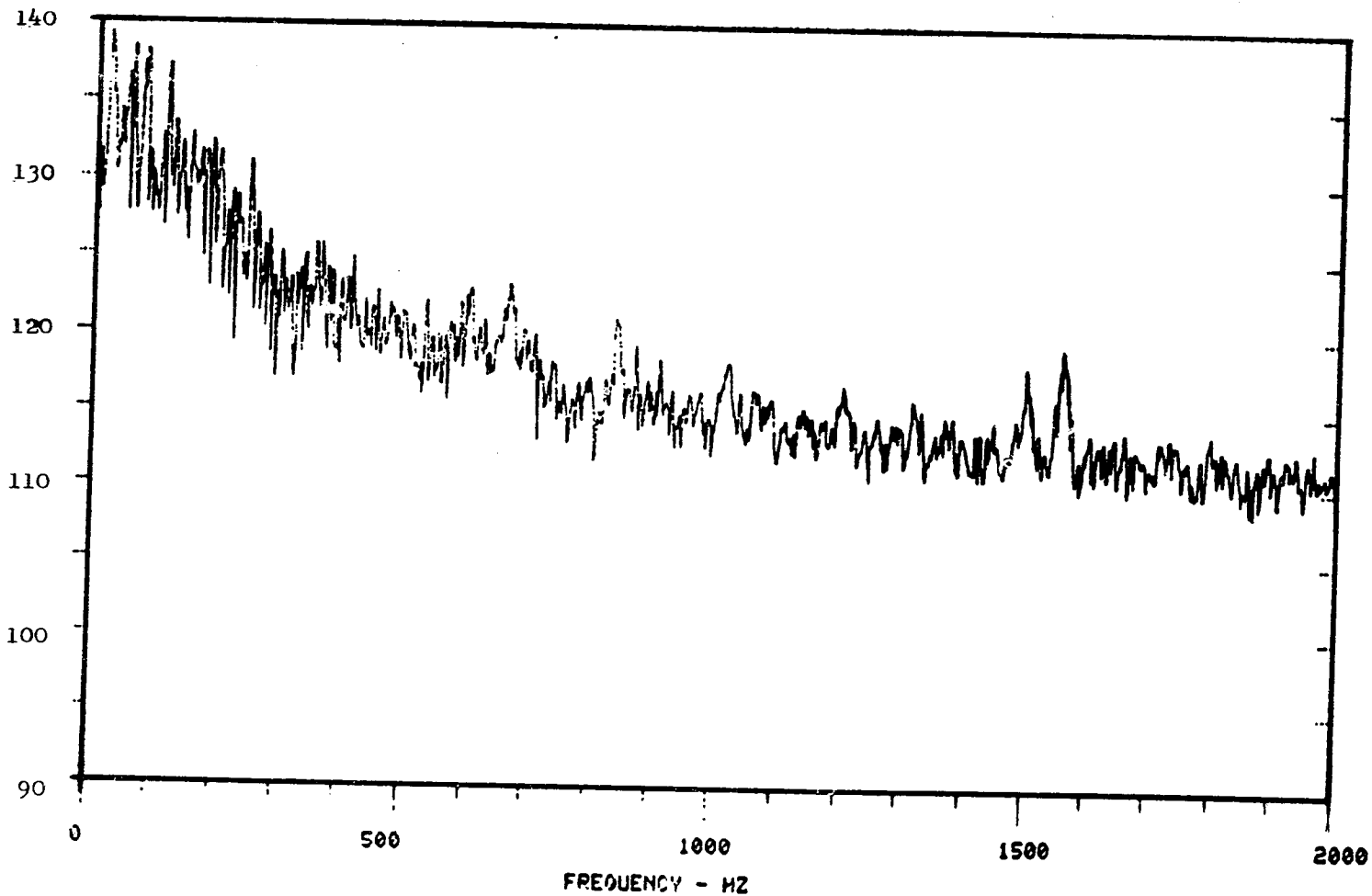
FPL - DE

ORIGINAL PAGE IS
OF POOR QUALITY

981

CF6-50 CORE NOISE PROGRAM

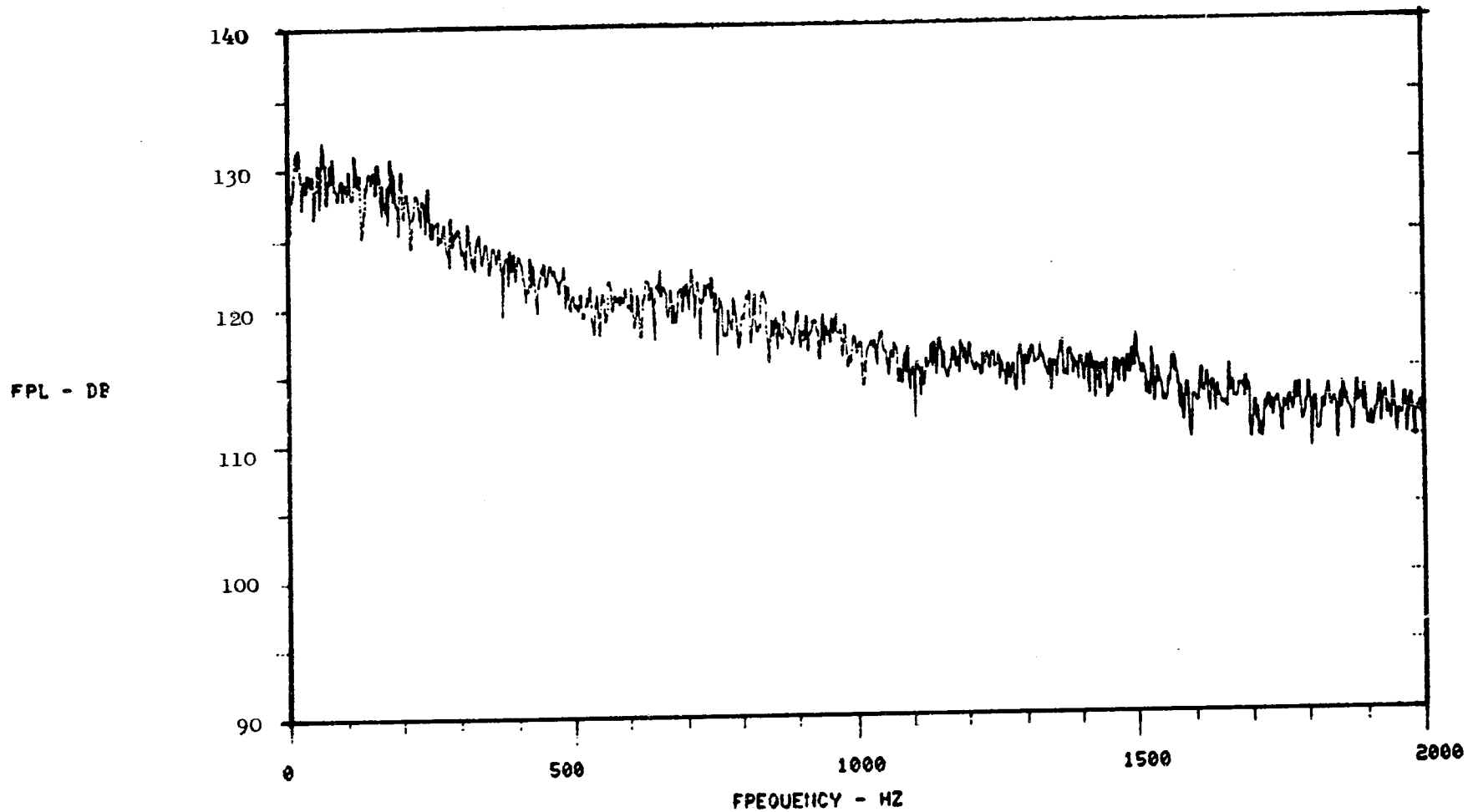
FPL - DB



KULITE 24
RDG NO 567
FAN SPEED 3701 RPM
OAFPL 153.9 DB

RUN NO 3
X THRUST-99.87
Q/S 1. / 5.00000
BS/SR 4096/ 8192

CF6-50 CORE NOISE PROGRAM



KULITE 26
RDC NO 567
FAN SPEED 3701 RPM
OAFPL 151.9 DB

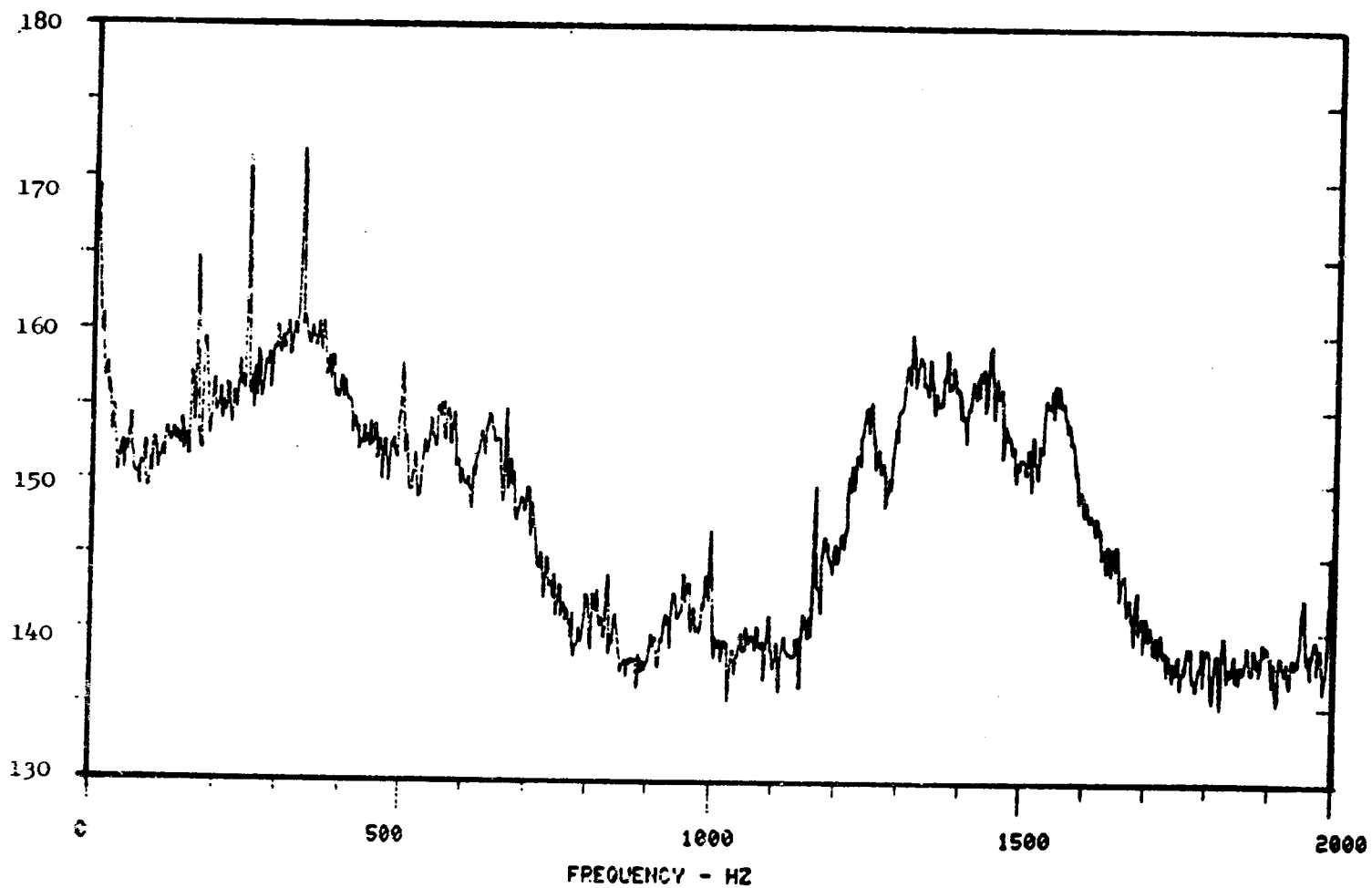
187

RUN NO 3
X THRUST-99.87
G/S 1./ 5.00000
BS/SR 4096/ 8192

188

CF6-50 CORE NOISE PROGRAM

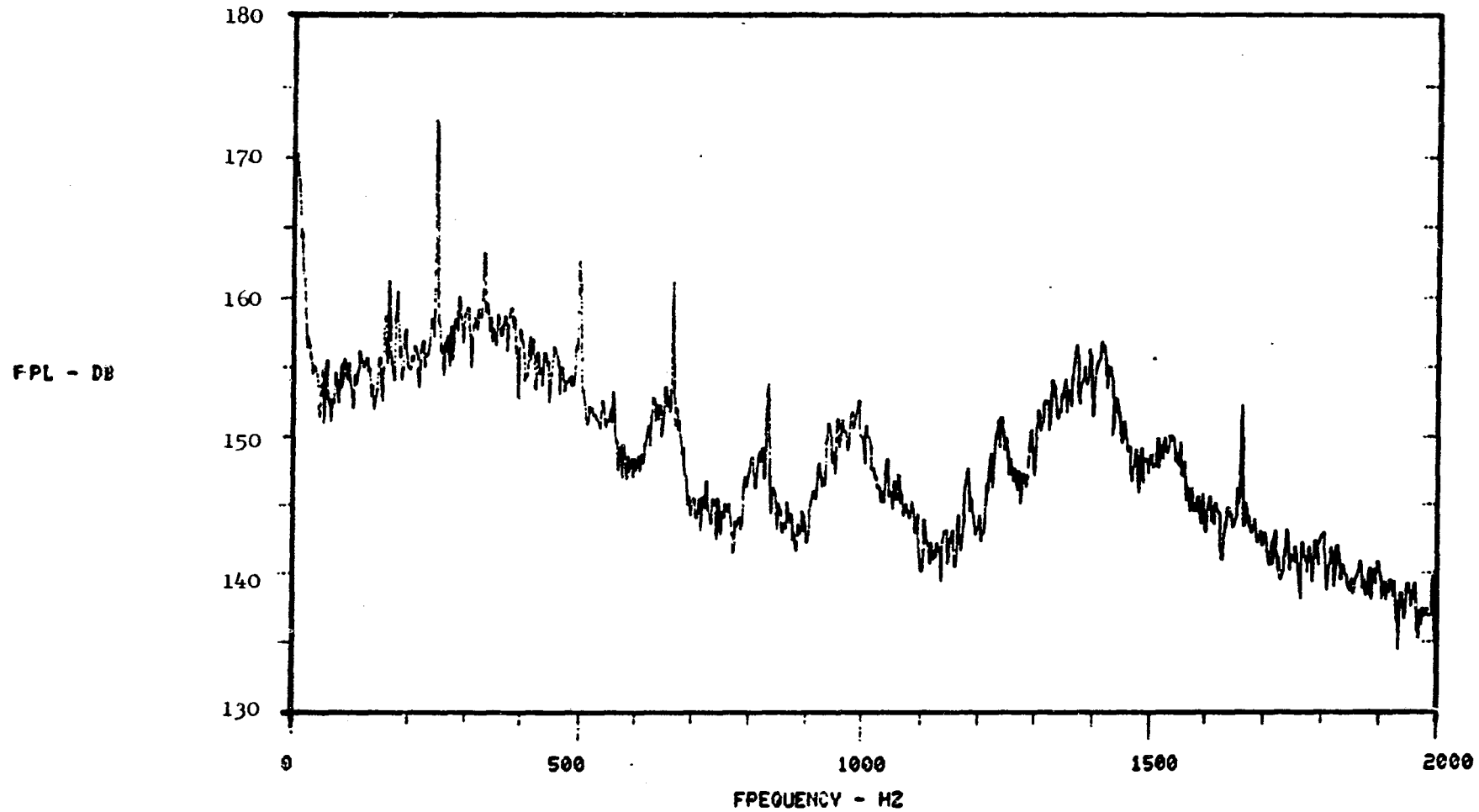
FPL - DE



KULITE 23
RDG NO 567
FAN SPEED 3701 RPM
OAFPL 184.1 DB

RUN NO 3
X THRUST=99.87
Q/S 1. / 1.00000
IS/SR 4096 / 8192

CF6-50 CORE NOISE PROGRAM



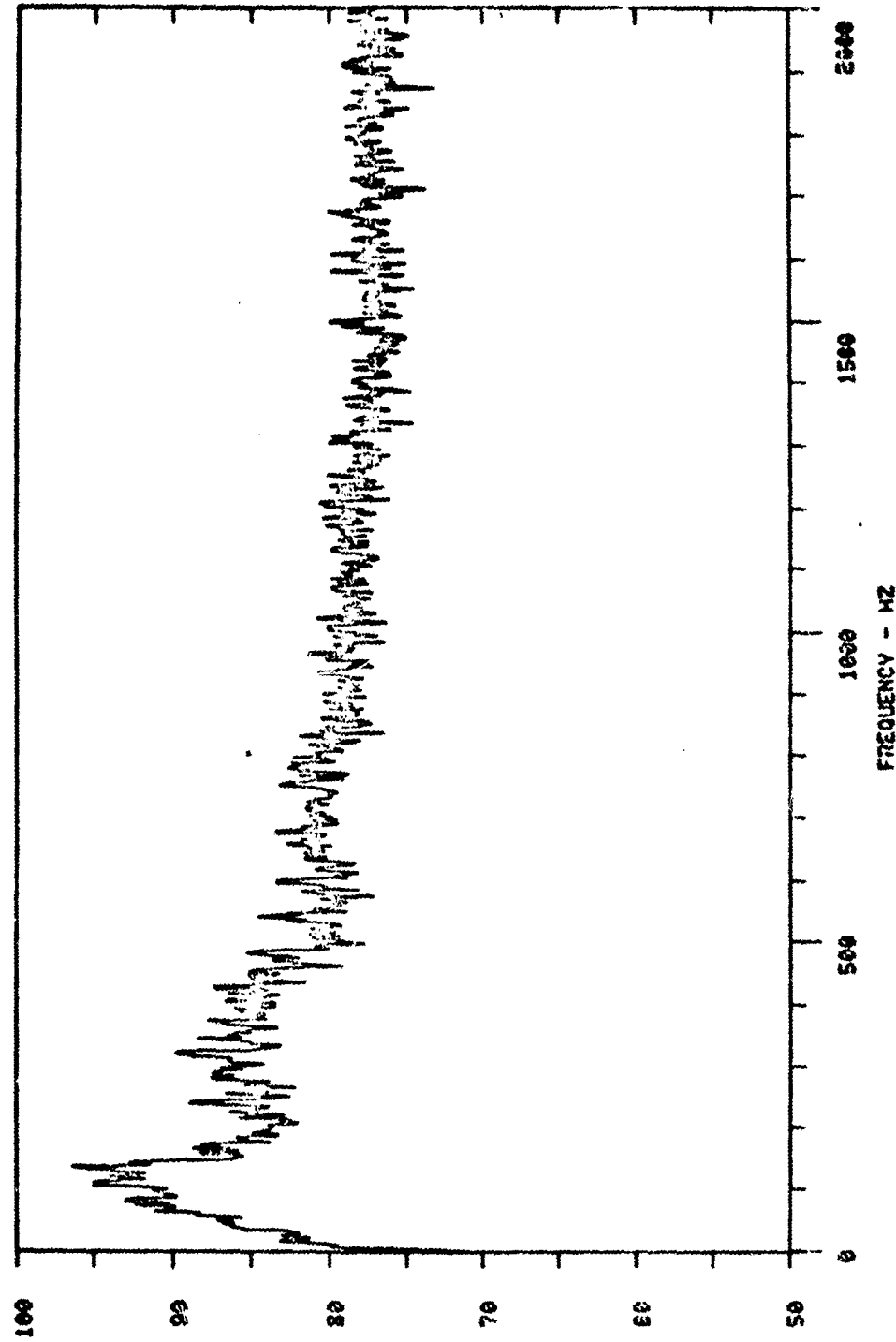
KULITE 25
RDG NO 567
FAN SPEED 3701 RPM
OAFPL 184.2 DB

189

RUN NO 3
X THRUST-99.87
G/S 1. / 1.00000
BS/SR 4096 / 8192

CF6-50 CORE NOISE PROGRAM.

190



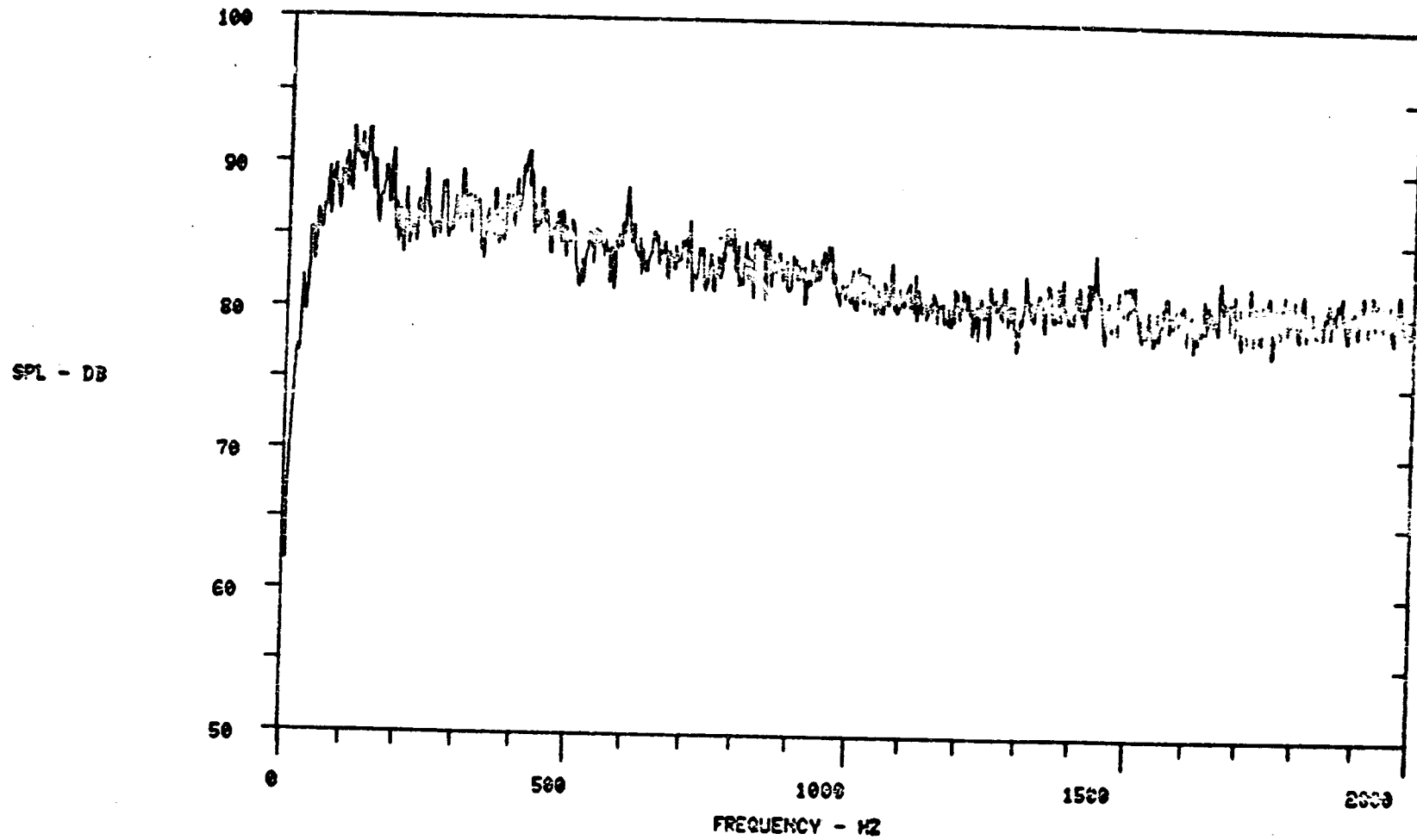
SPL - DB

ORIGINAL PAGE IS
OF POOR QUALITY

RIC 10 DEG
RDG NO 567
FAN SPEED 3791 RPM
CRSPL 113.0 DB

RUN NO 3
% THRUST-99.87
C/S 1.1 0.003ES
PS/ER 4823/ 0192

CF8-50 CORE NOISE PROGRAM.



NIC 30 DEG
RDG NO 567
FAN SPEED 3701 RPM
CASPL 113.9 DB

161

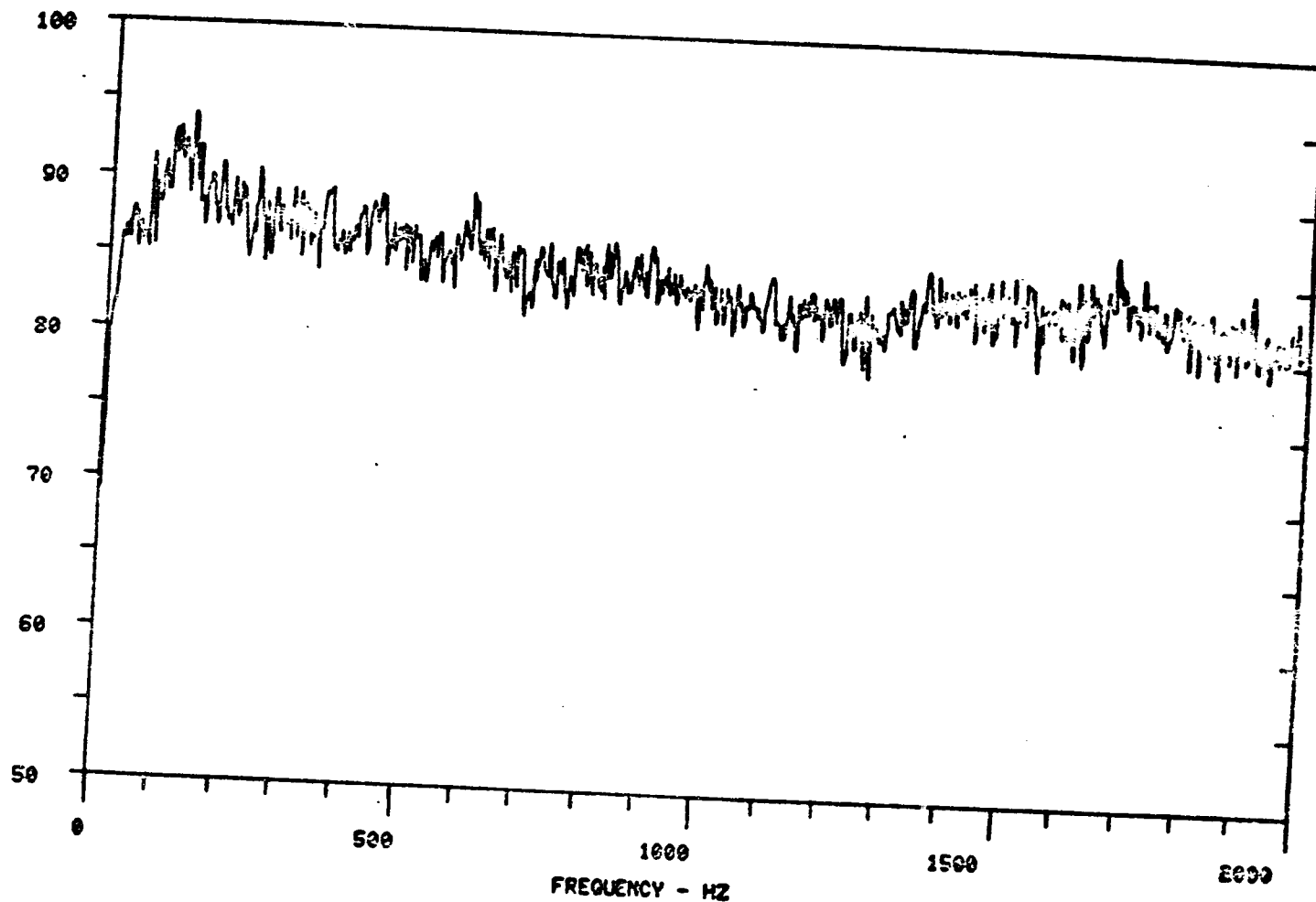
RUN NO 3
* THRUST-62.87
Q/S 1.7 0.00325
ES/SR 4695/ 5152

192

ORIGINAL PAGE IS
OF POOR QUALITY

CF6-50 CORE NOISE PROGRAM.

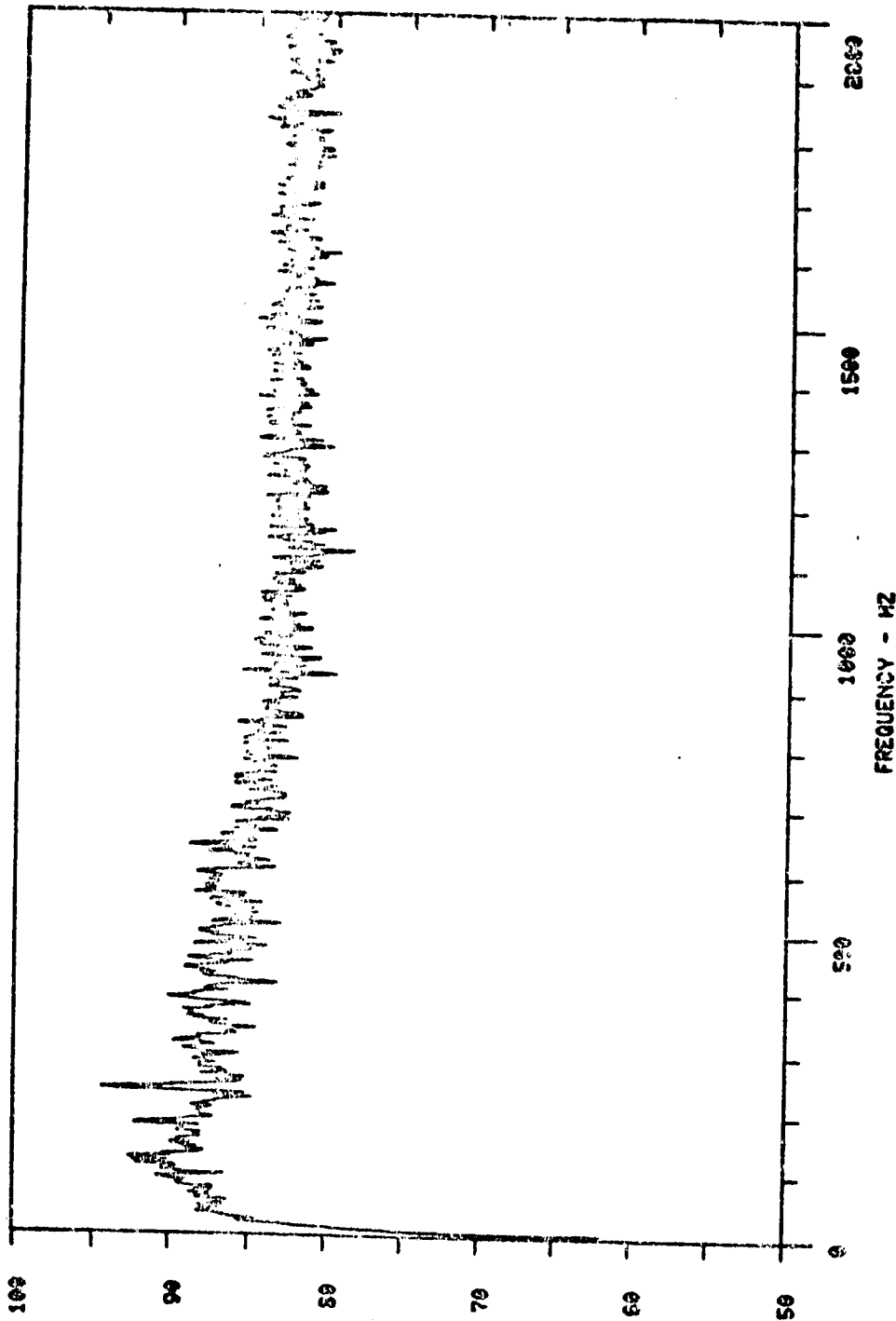
SFL - DB



NIC 49 DEG
R03 NO 567
FAN SPEED 3701 RPM
OASPL 115.2 DB

RUN NO 3
* THRUST-57.87
G/S 1. / 0.03325
BS/SR 4656/ 8162

CF6-50 CORE NOISE PROGRAM.



RUN NO 3
% THRUST-99.87
G/S 1.1 0.00003
ES/GR 4000/ 8102

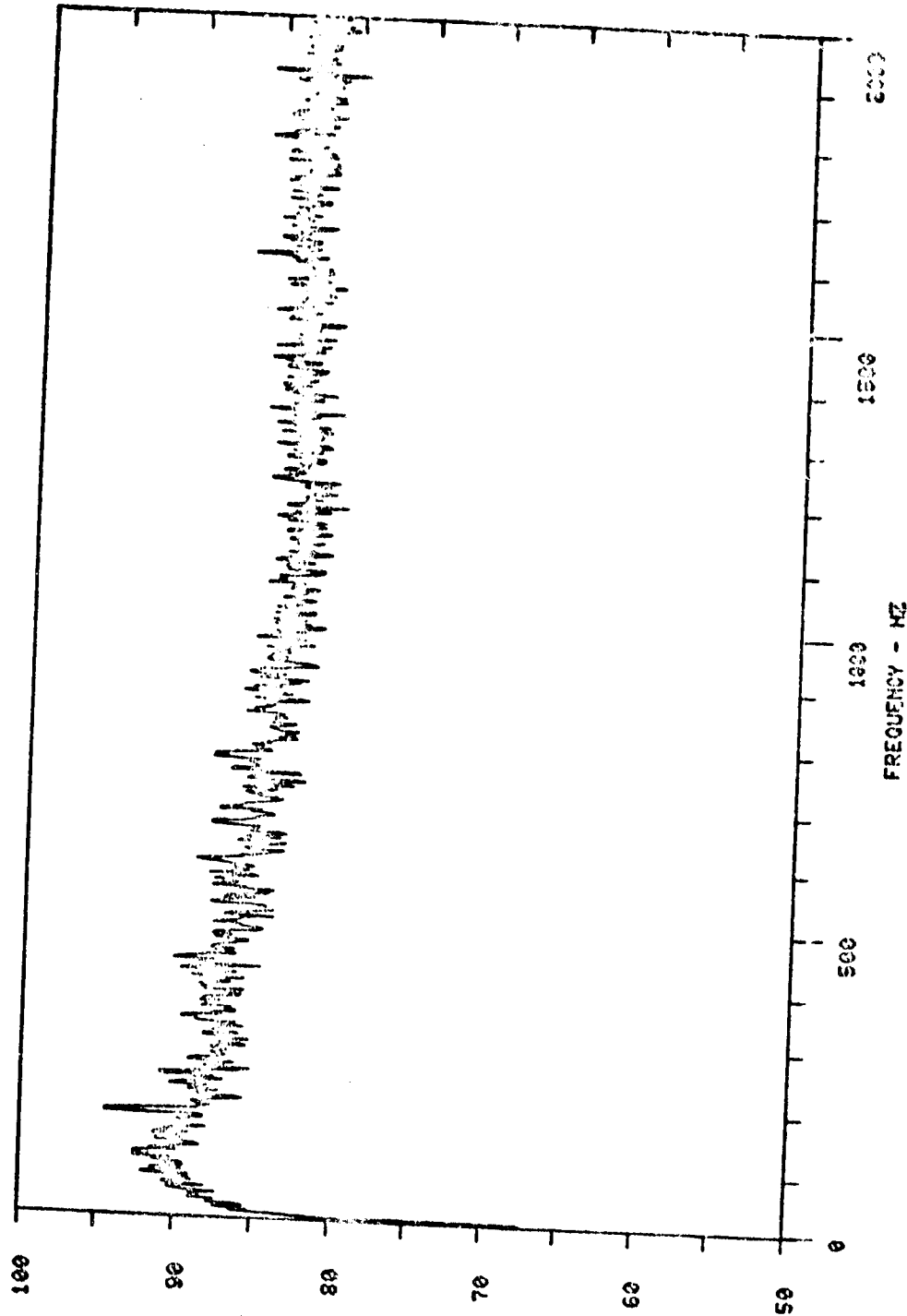
MIC 50 DEG
RDS NO 567
FAN SPEED 3701 RPM
COWL 115.1 DB
193

SPL - DB

ORIGINAL PAGE IS
OF HIGHER QUALITY

C-3

CF6-50 CORE NOISE PROGRAM.

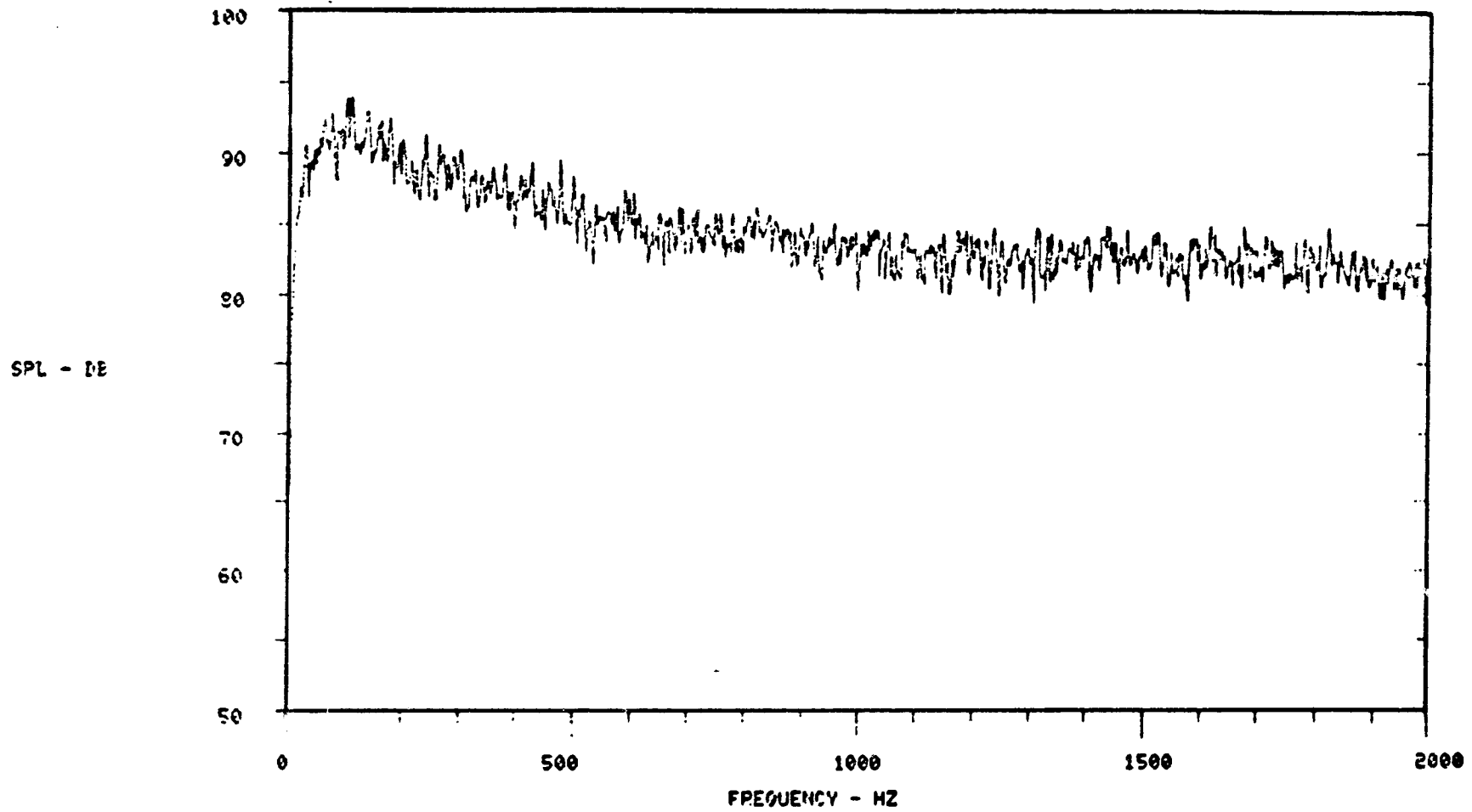


SPL - DB

NIC 60 DEG
 RDD NO 557
 FAN SPEED 3761 RPM
 CASPL 115.7 DB

RUN NO 3
 * THRUST 82.67
 G/S 1.7 0.00005
 IS/SR 433/ 8192

CF6-50 CORE NOISE PROGRAM

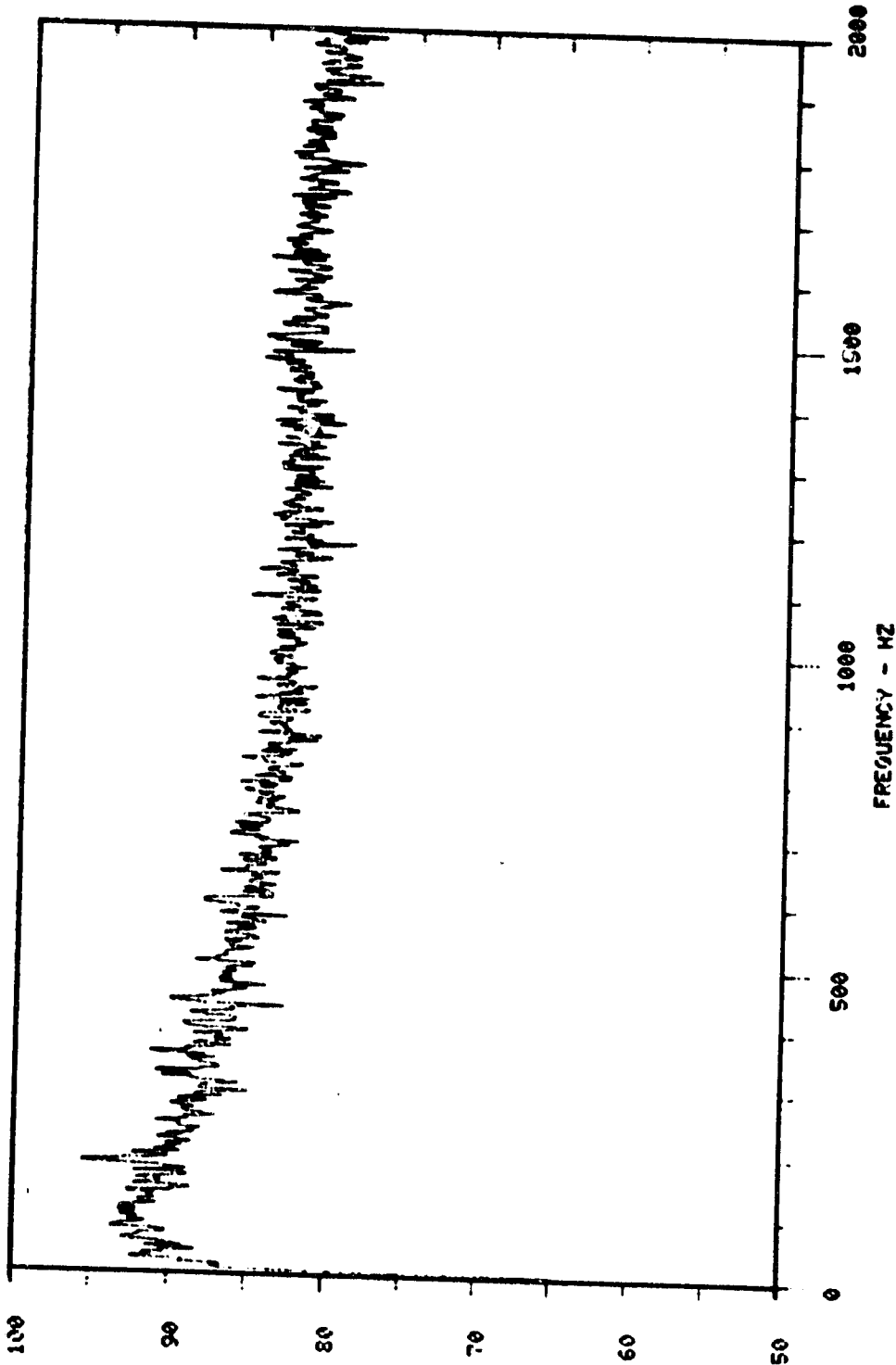


MIC 70 DEG
RDC NO 567
FAN SPEED 3701 RPM
OASPL 115.5 DB

195

RUN NO 3
X THRUST-99.87
G/S 1. / 0.00325
BS/SR 4096/ 2192

CF6-50 CORE NOISE PROGRAM



SPL - DB

MIC 30 DEG

RDG NO 567

FAN SPEED 3701 RPM

OMSP 115.8 DB

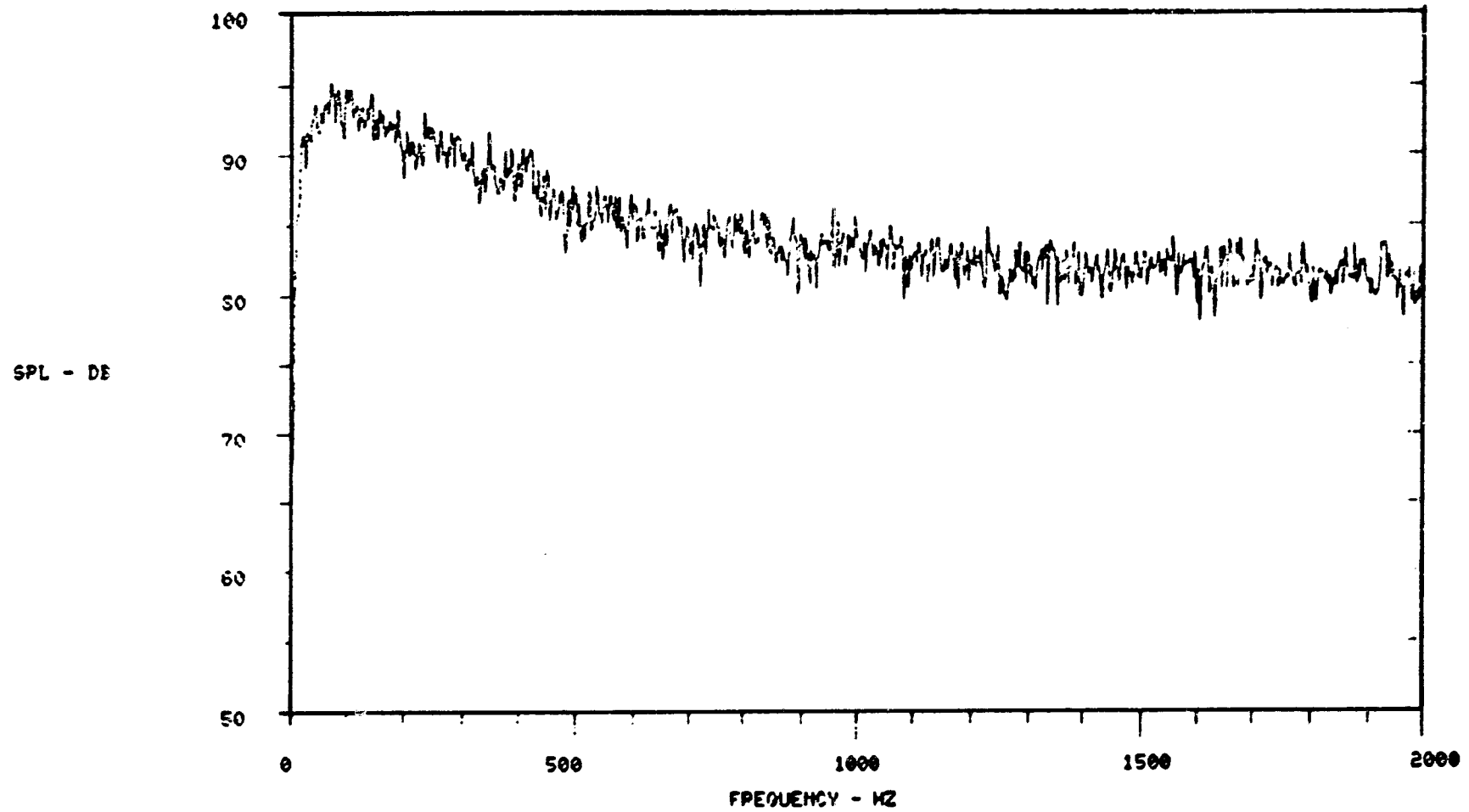
RUN NO 3

X THRUST=99.87

Q/S 1.7 0.00325

DS/SR 4096/ 8192

CF6-50 CORE NOISE PROGRAM

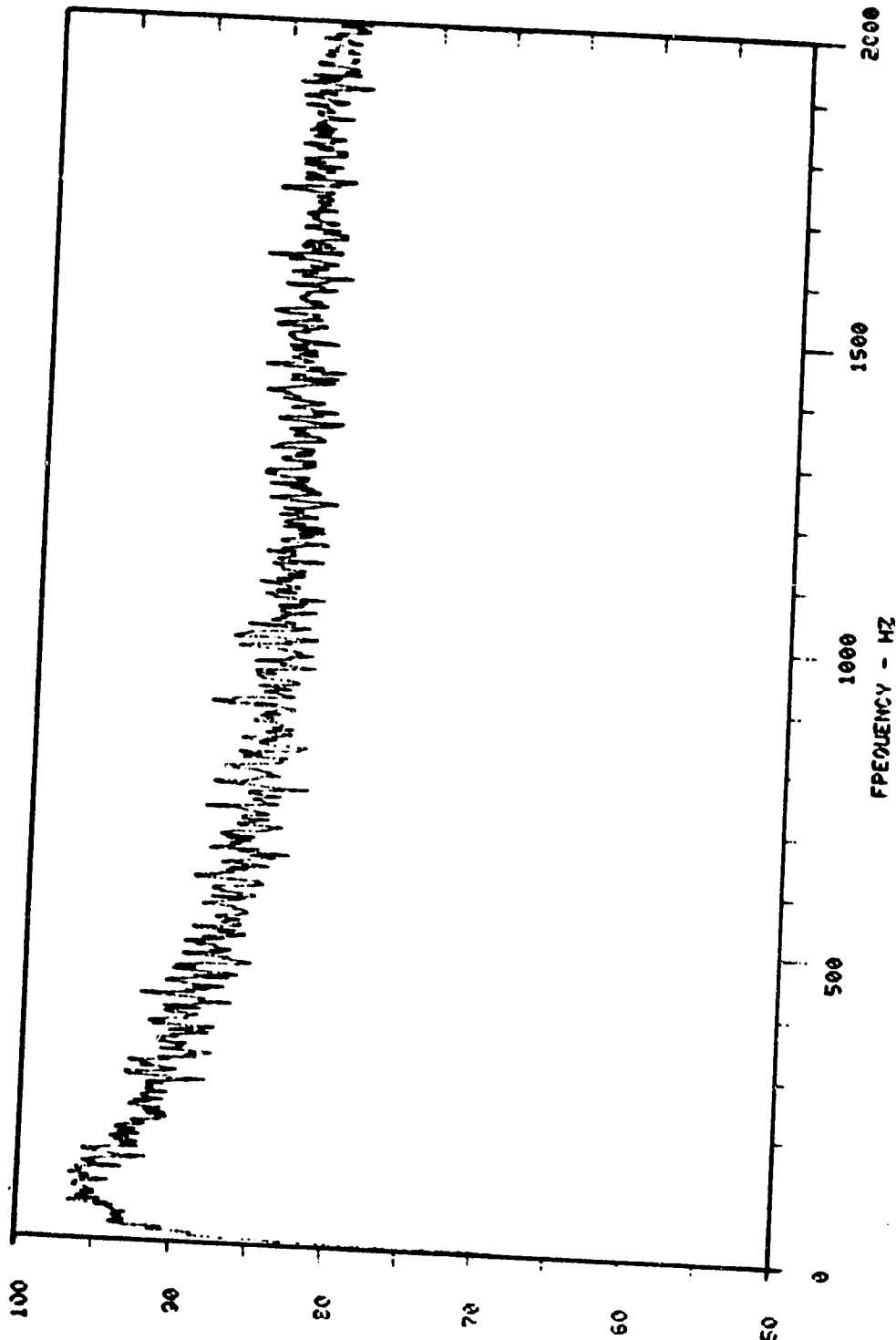


MIC 90 DEG
RDG NO 567
FAN SPEED 3701 RPM
OASPL 116.5 DB

197

RUN NO 3
% THRUST-99.87
G/S 1.00325
BS/SR 4026/ 8192

CF6-50 CORE NOISE PROGRAM



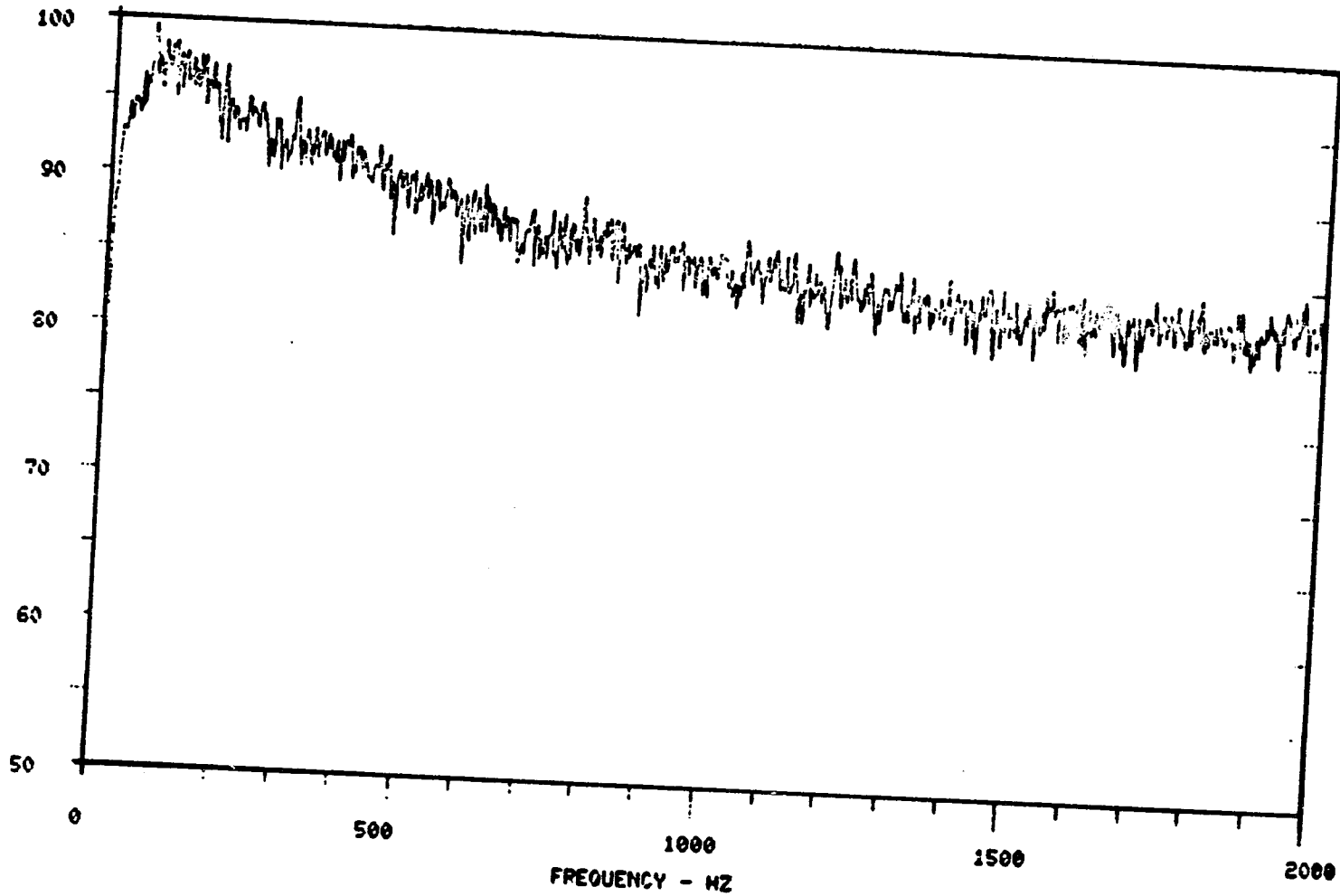
SPL - DB

MIC 100 DEG
RDG NO 567
FAN SPEED 3701 RPM
OASPL 117.8 DB

RUN NO 3
X THRUST-99.87
G/S 1.7 0.00325
BS/SR 4096/ 8192

CF6-50 CORE NOISE PROGRAM

SPL - DE



MIC 110 DEG
RDG NO 567
FAN SPEED 3701 RPM
CASPL 119.2 DB

191

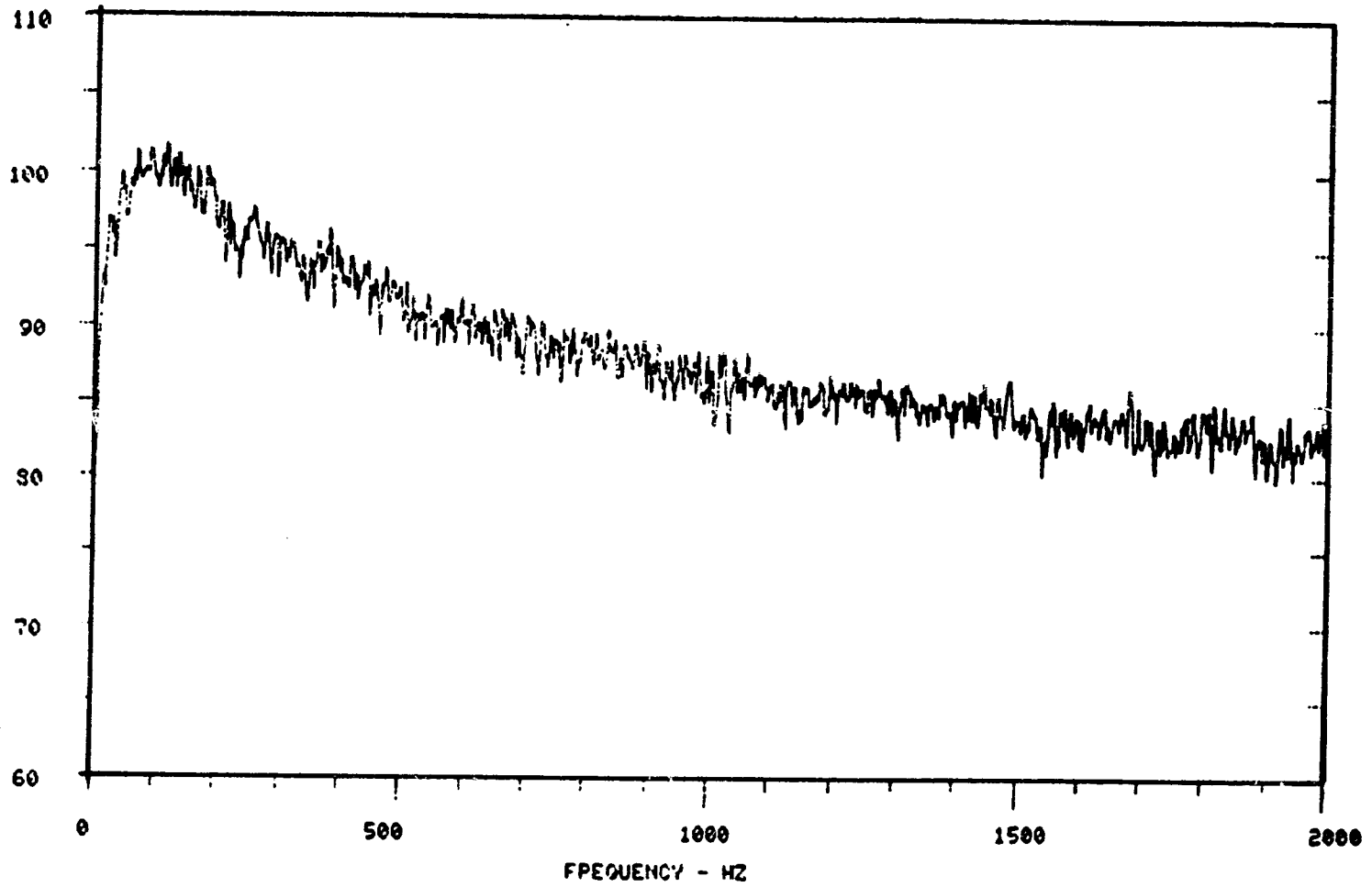
PUN NO 3
* THRUST=99.87
G/S 1./ 0.00325
BS/SR 4096/ 8192

CF6-50 CORE NOISE PROGRAM.

200

SPL - DE

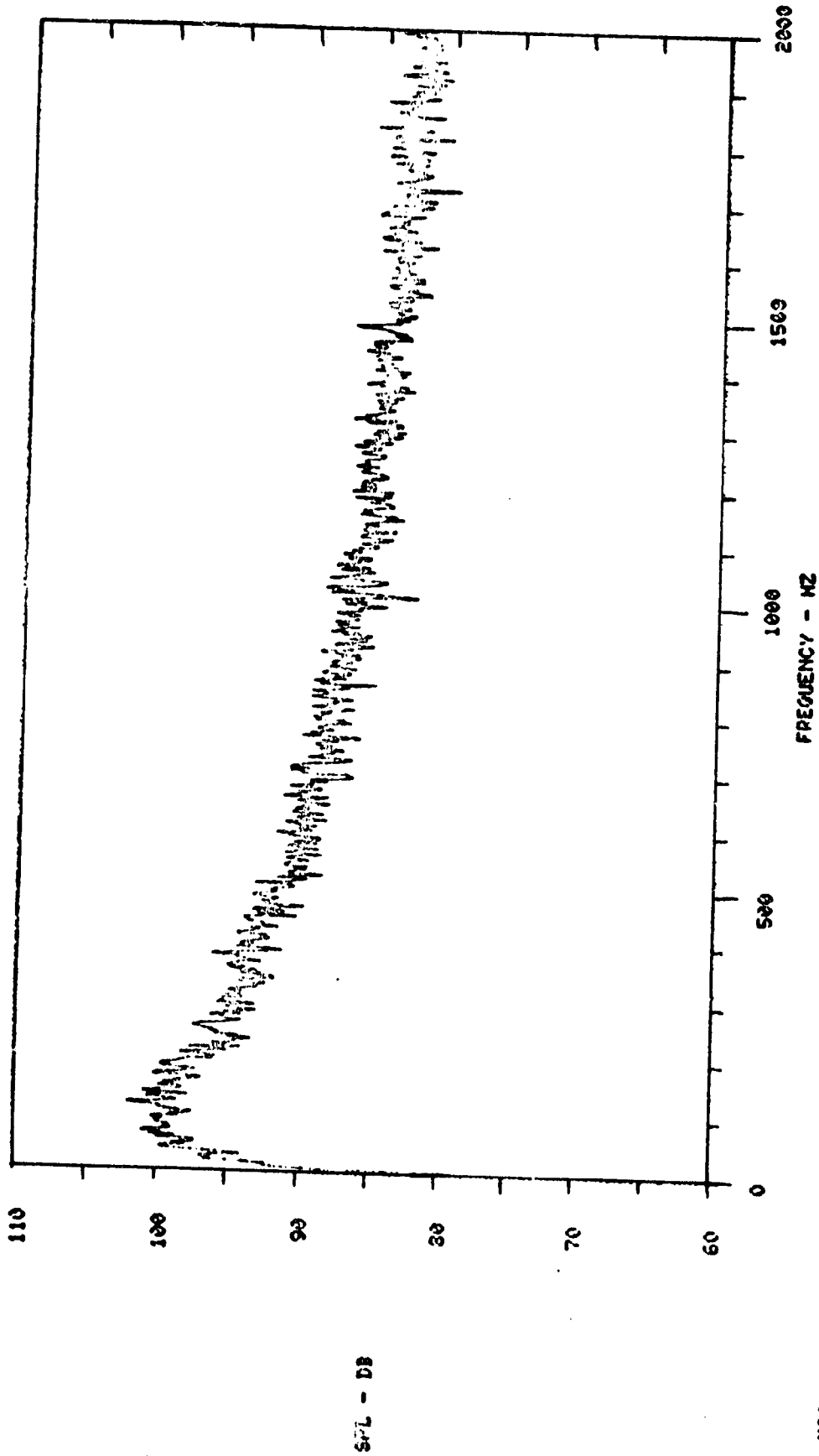
ORIGINAL PAGE IS
OF POOR
QUALITY



MIC 120 DEG
RDG NO 567
FAN SPEED 3701 RPM
OASPL 121.9 DB

RUN NO 3
X THRUST=99.87
G/S 1. / 0.01028
BS/SR 4096/ 8192

CF6-50 CORE NOISE PROGRAM.



MIC 150 DEG
R00 HD 507

FAN SPEED 3701 RPM
CASPL 121.7 DB

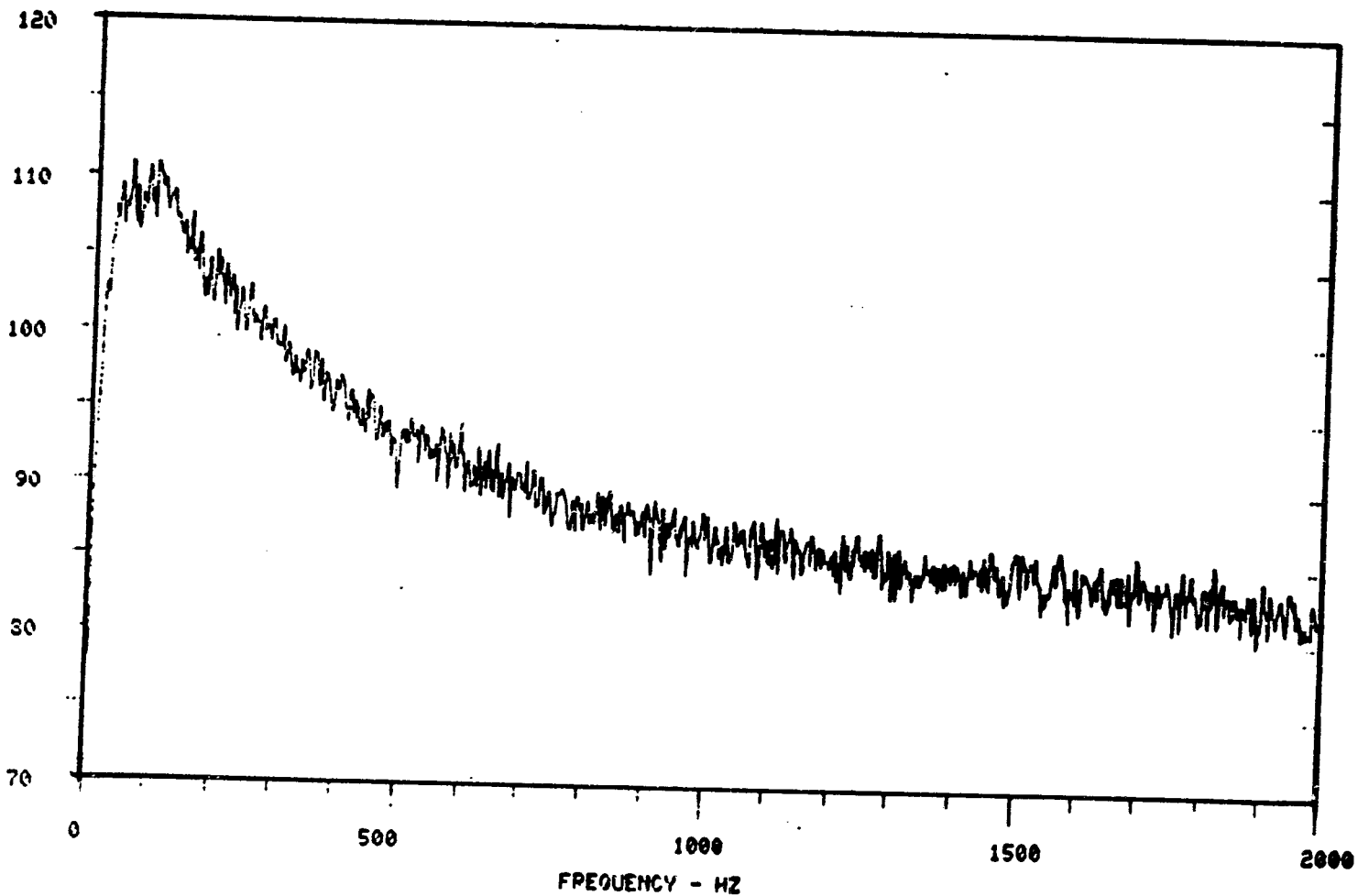
201

RUN NO 3
X THRUST=92.87
Q/S 1.7 0.01623
BS/ER 4995/ 8192

202

CF6-50 CORE NOISE PROGRAM.

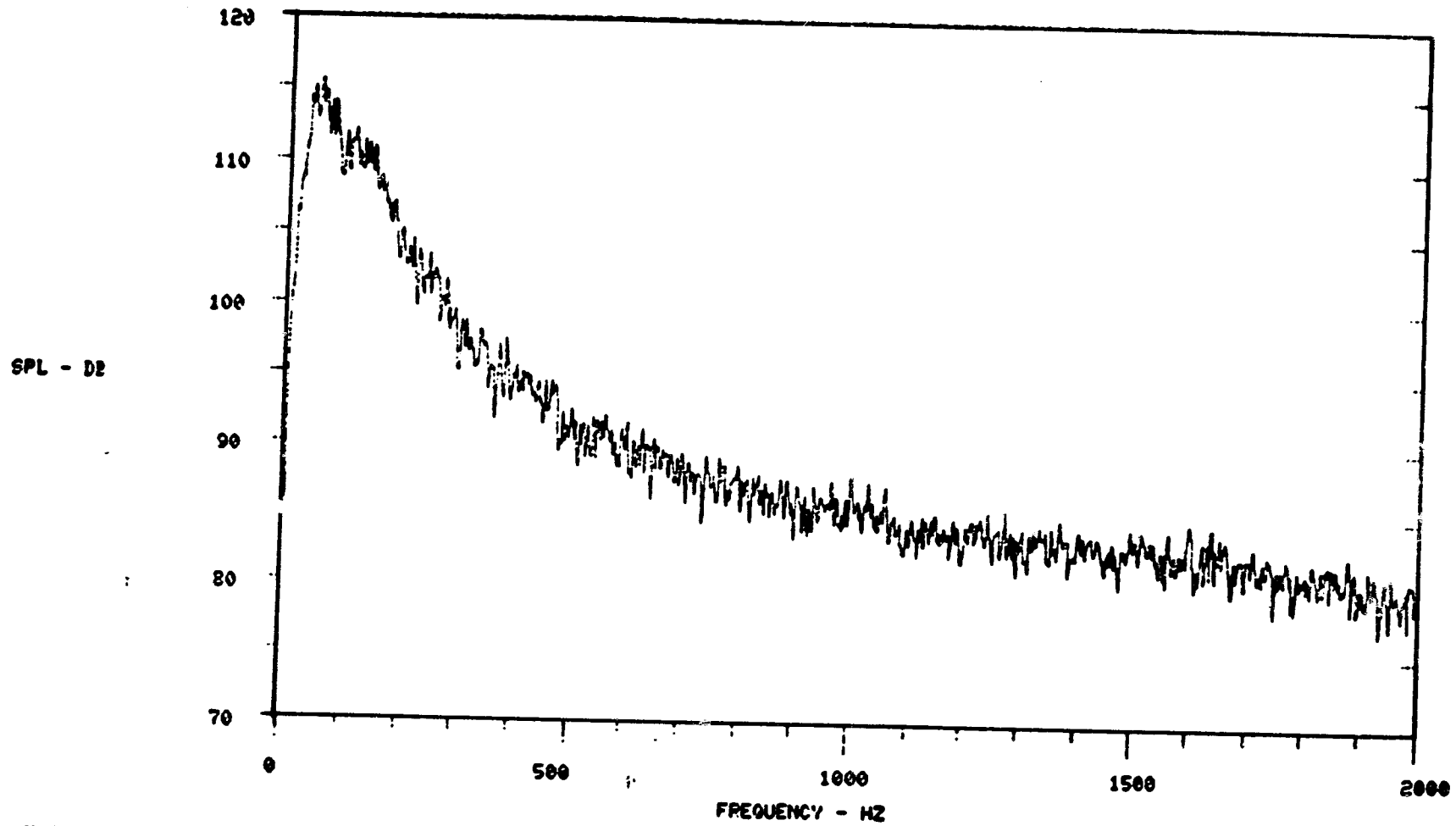
SPL - DB



MIC 140 DEG
RDG NO 567
FAN SPEED 3701 RPM
OASPL 128.1 DB

RUN NO 3
X THRUST-99.87
Q/S 1./ 0.01028
BS/SR 4026/ 8192

CF6-50 CORE NOISE PROGRAM.

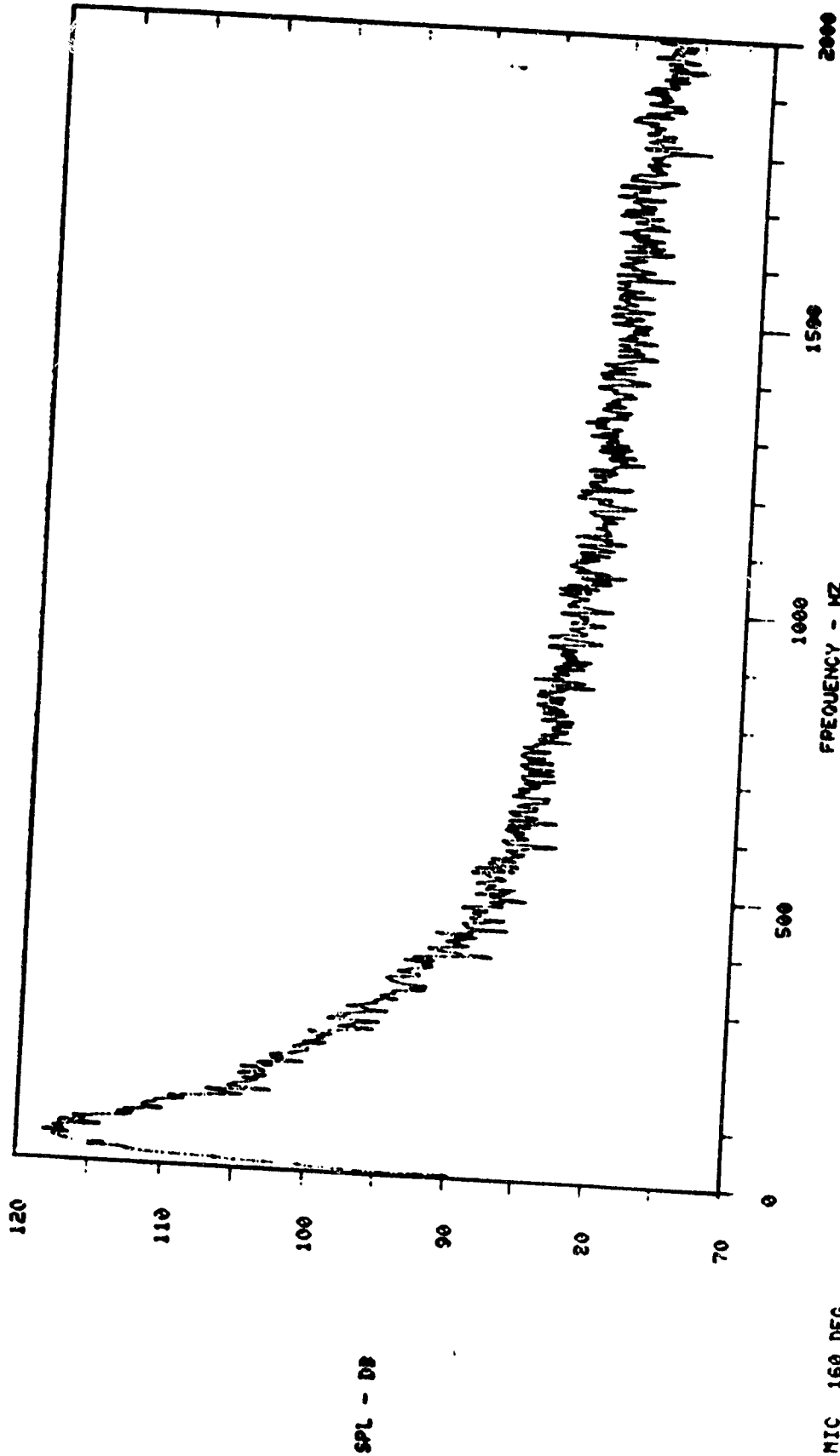


MIC 150 DEG
RDG NO 567
FAN SPEED 3701 RPM
OASPL 131.0 DB

203

RUN NO 3
X THRUST-99.87
G'S 1. / 0.01028
BS/SR 4096 / 8192

CF6-50 CORE NOISE PROGRAM.



MIC 160 DEG
RDG NO 567
FAN SPEED 3701 RPM
OxSPL 132.3 DB

RUN NO 3
X THRUST-99.87
G/S 1.7 0.01028
BS/SR 4086/ 2192

APPENDIX B One-Third Octave Band Spectra for CF6-50
Core Noise Measurements Program

- One-Third Octave Band Spectra for CF6-50
Core Noise Measurements Program

This appendix contains the one-third octave band fluctuating pressure level (FPL) spectra from the internal Kulites (9) and the sound pressure level (SPL) spectra from the farfield ground mounted microphones (15) at the eight test conditions covering the operating range of the CF6-50 engine. The 1/3 octaveband results from the internal Kulites are for the range of frequencies from 50 to 5000 Hz. Corrections for ambient frequency response of the five waveguide sensors in the combustor region have been applied to the (as measured) data. No corrections were applied to the flush mounted core probe Kulites or fuel nozzle sensors.

The farfield 1/3 octaveband results have been corrected to standard day (59°F, 70% relative humidity) and freefield conditions. Spectra are displayed from 50 to 10000 Hz.

Tabulations of the 1/3 octave band FPL's and SPL's and spectral plots for each sensor are included in Tables 4 and 5, respectively.

Table 4. Internal Fluctuating Pressure Levels

Plane	a) 3.8% F _n , RDG 544										b) 22.8% F _n , RDG 547									
	3.0	3.5	3.5	3.5	4.0	8.0A	8.0B	F/N	F/N		3.0	3.5	3.5	3.5	4.0	8.0A	8.0B	F/N	F/N	
θ (deg)	16.0	42.0	102.0	292.0	92.0	270.0	270.0	42.0	102.0		16.0	42.0	102.0	282.0	92.0	270.0	270.0	42.0	102.0	
FREQ																				
50.	136.3	137.8	138.3	137.0	135.8	118.3	116.3	152.0	149.0		142.2	141.8	143.0	141.5	147.0	126.0	126.0	155.8	155.5	
63.	136.8	139.3	139.5	138.3	136.5	118.0	117.3	156.8	152.0		148.0	149.5	150.8	150.5	145.5	124.8	125.5	151.3	150.8	
80.	139.8	142.3	143.3	142.0	137.8	116.8	114.0	157.3	150.0		148.3	150.5	151.8	151.0	145.0	123.8	125.5	154.0	153.5	
100.	143.0	145.1	144.7	144.7	140.8	117.0	114.3	173.5	152.0		144.5	147.1	147.7	148.0	146.3	122.0	125.3	153.0	152.0	
125.	143.3	146.0	145.8	146.3	142.0	116.0	115.0	165.5	149.0		147.8	152.0	152.5	152.3	147.0	122.8	130.8	157.0	156.3	
160.	138.7	145.1	144.8	143.3	140.3	115.0	111.8	178.0	161.8		145.7	150.9	151.5	151.5	147.5	121.0	124.0	157.0	154.5	
200.	136.6	143.5	145.0	143.6	140.9	118.5	115.3	161.8	154.0		145.4	152.3	152.8	152.1	148.1	121.5	123.3	169.0	164.0	
250.	138.8	145.4	144.5	142.0	141.2	120.8	118.3	146.0	155.5		147.0	153.6	154.8	153.0	149.0	123.8	123.5	160.0	160.5	
315.	134.8	142.1	142.0	139.1	139.0	118.8	116.3	143.3	160.3		148.0	156.4	156.0	153.4	150.5	125.0	124.5	158.8	154.0	
400.	133.0	141.0	140.6	138.5	138.3	120.0	117.0	143.0	159.5		146.5	154.8	154.1	154.5	151.0	125.8	126.3	160.5	166.5	
500.	134.3	140.4	141.0	138.0	139.5	119.8	117.8	145.0	155.0		145.0	153.4	153.5	152.3	151.5	124.0	122.5	165.5	163.3	
630.	135.3	138.8	139.4	136.8	138.5	117.3	115.8	142.3	150.3		145.8	151.3	152.4	150.5	150.2	122.0	120.5	164.8	160.5	
800.	133.4	139.4	139.4	136.8	139.1	114.8	113.5	150.3	153.0		146.4	151.4	152.4	150.8	149.1	121.8	119.8	151.0	155.5	
1000.	130.9	138.7	138.4	134.4	140.5	113.5	111.8	139.3	145.0		147.4	154.0	155.1	152.8	151.5	121.0	118.3	152.0	160.8	
1250.	131.9	136.5	136.6	134.9	143.4	113.5	112.0	149.0	152.5		147.9	155.8	157.6	156.6	155.1	122.0	118.5	164.5	163.0	
1600.	131.2	134.6	136.8	132.8	145.2	118.3	116.0	142.8	161.0		144.0	151.1	152.3	151.0	155.5	122.5	118.3	161.8	157.5	
2000.	131.5	132.8	133.0	130.3	144.0	113.8	115.5	136.5	143.5		141.2	148.3	149.8	148.3	153.5	124.0	119.0	155.3	153.8	
2500.	136.5	132.5	134.0	130.5	145.0	111.3	111.8	139.5	149.0		144.0	147.8	149.0	147.3	155.2	125.0	119.0	154.5	155.8	
3150.	138.5	134.6	132.3	130.1	144.5	109.8	110.3	142.0	143.5		149.3	146.9	146.3	145.9	155.0	124.8	122.0	151.0	150.8	
4000.	140.2	134.0	131.7	129.0	141.4	107.8	106.0	146.3	142.5		151.0	145.3	145.5	145.3	152.6	125.5	127.8	152.5	151.5	
5000.	141.3	134.4	132.0	129.5	140.3	109.0	103.8	155.3	144.0		152.0	145.1	145.2	144.6	150.8	123.5	122.0	152.8	152.8	
OVERALL FPL	151.3	154.4	154.4	153.1	154.6	130.1	128.1	179.7	136.4		160.5	165.0	165.7	164.8	164.7	136.9	137.5	174.0	173.1	

ORIGINAL PAGE IS
OF POOR QUALITY

Table 4. Internal Fluctuating Pressure Levels (continued)

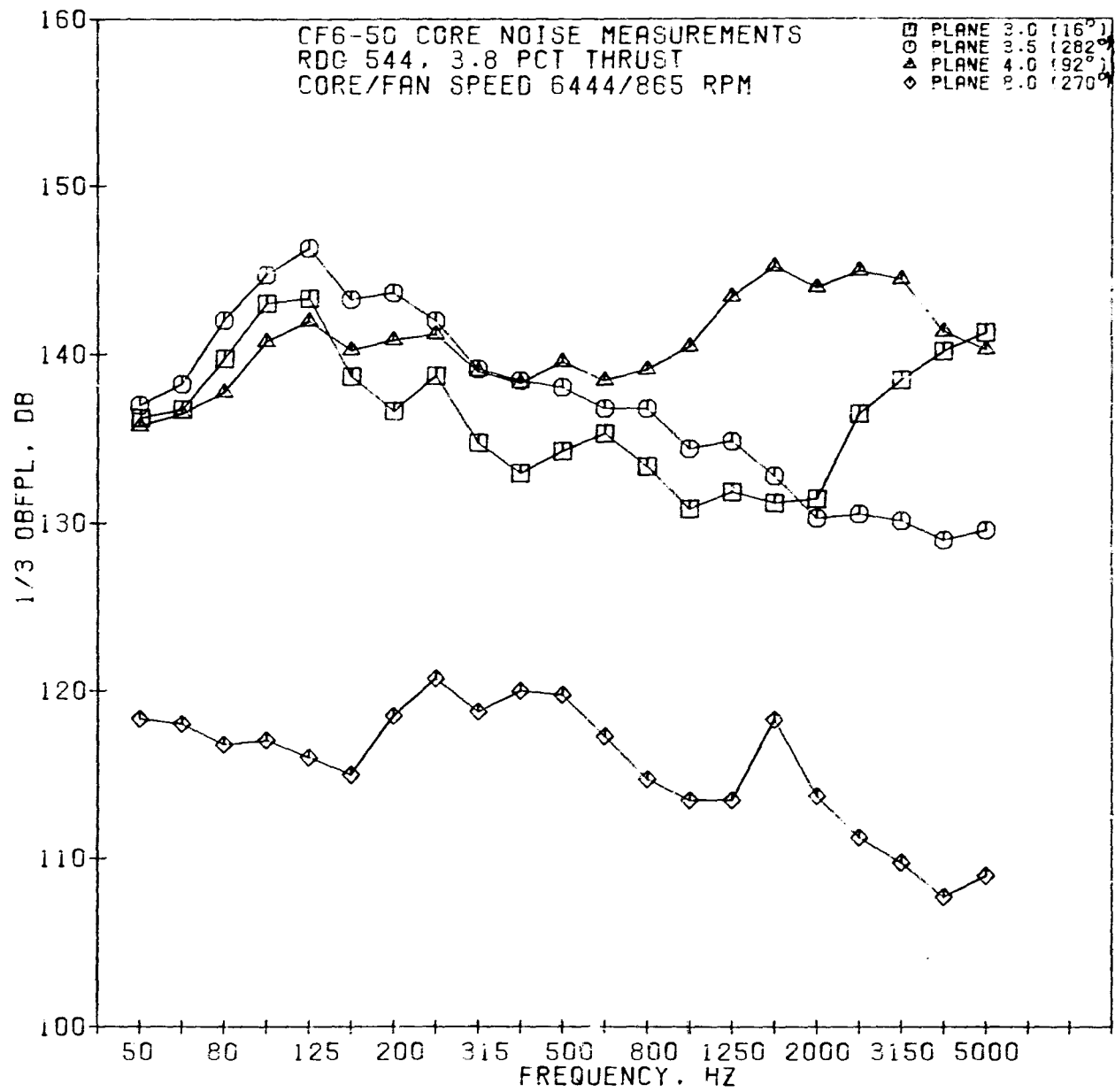
Plane θ (deg) FREQ	c) 30.3% F_n , RDG 551									d) 36.5% F_n , RDG 557								
	3.0	3.5	3.5	3.5	4.0	8.0A	8.0B	F/N	F/N	3.0	3.5	3.5	3.5	4.0	8.0A	8.0B	F/N	F/N
	16.0	42.0	102.0	282.0	92.0	270.0	270.0	42.0	102.0	16.0	42.0	102.0	282.0	92.0	270.0	270.0	42.0	102.0
50.	141.5	141.5	142.5	143.0	148.3	127.5	127.3	154.0	154.3	142.5	143.0	143.5	145.3	149.3	128.0	128.0	153.8	153.5
63.	149.5	151.3	151.5	151.5	148.0	127.3	127.5	153.0	152.3	151.3	151.8	152.3	152.0	149.5	128.3	128.0	155.5	153.0
80.	149.5	151.5	152.5	152.0	147.0	125.8	128.3	154.3	153.3	150.8	153.3	153.5	154.3	148.8	127.3	129.0	155.3	154.3
100.	145.5	149.1	150.0	150.7	147.8	124.8	127.5	153.5	153.0	146.3	151.4	151.2	152.5	148.8	125.8	128.0	154.5	154.0
125.	149.5	152.5	152.8	153.0	148.5	126.3	131.8	158.3	157.0	150.3	153.0	153.5	154.0	149.5	127.5	129.8	158.8	158.3
160.	148.0	152.6	153.0	153.5	149.3	126.0	126.8	158.3	157.3	151.5	153.9	154.0	154.3	150.5	127.3	128.0	161.5	160.5
200.	147.9	152.5	153.5	153.6	149.6	126.5	124.5	169.3	165.5	151.9	154.0	154.3	154.9	149.9	127.5	126.3	168.8	166.0
250.	147.5	154.4	155.8	154.5	149.2	125.0	123.3	160.8	161.0	148.5	155.6	156.3	155.5	149.7	125.5	124.3	162.3	162.0
315.	148.5	157.4	157.3	156.1	151.0	126.3	124.0	159.8	164.8	150.0	157.9	158.5	157.6	151.3	127.0	124.5	161.8	166.0
400.	148.5	156.3	156.4	156.5	152.3	126.5	124.0	159.0	166.5	150.0	157.8	157.4	158.7	152.8	128.0	125.0	161.0	167.0
500.	146.0	155.1	155.5	154.3	152.5	125.3	122.5	164.8	163.3	147.3	156.4	156.5	155.8	153.0	127.0	124.0	165.0	163.3
630.	148.0	153.5	154.4	153.3	151.7	125.0	122.0	167.5	164.0	149.5	155.8	155.9	154.8	153.5	127.5	123.5	170.3	165.3
800.	147.9	152.1	153.4	152.3	150.9	123.3	121.8	152.5	156.5	149.1	154.6	155.1	154.0	152.1	126.3	123.0	154.2	158.0
1000.	148.9	155.5	156.4	154.9	152.2	122.5	120.8	153.0	161.3	150.6	156.5	157.9	155.9	153.0	125.0	123.8	154.0	162.8
1250.	151.1	157.8	159.4	159.4	156.9	123.3	122.0	166.0	164.3	152.1	159.5	160.9	161.1	157.6	125.5	124.8	167.3	165.8
1600.	145.7	153.4	154.8	153.8	156.7	122.8	121.5	163.3	160.5	146.7	155.4	156.3	155.8	158.2	125.0	123.5	165.8	161.8
2000.	142.0	150.8	152.3	151.3	155.0	123.0	120.5	156.0	155.8	143.2	152.8	154.0	153.3	155.5	125.0	122.8	155.3	154.5
2500.	144.8	150.5	151.8	150.3	157.0	124.0	121.8	156.3	154.5	145.8	152.8	153.5	152.5	158.5	125.3	123.8	155.8	154.8
3150.	149.5	148.6	149.0	148.9	156.2	125.3	122.0	153.3	150.5	151.3	150.6	151.0	150.4	157.2	126.5	124.0	153.3	151.0
4000.	152.2	147.0	148.0	148.0	153.6	126.0	125.0	153.3	153.3	152.7	148.8	149.5	149.5	155.4	126.8	125.0	152.8	152.5
5000.	153.0	147.1	147.2	147.1	153.8	125.3	123.8	153.3	155.3	153.8	148.9	149.5	149.1	155.8	126.8	127.0	155.8	155.0
OVERALL FPL	161.9	166.5	167.3	166.7	166.2	138.6	138.6	174.8	174.1	163.3	167.9	168.5	168.3	167.3	139.9	139.3	176.0	175.0

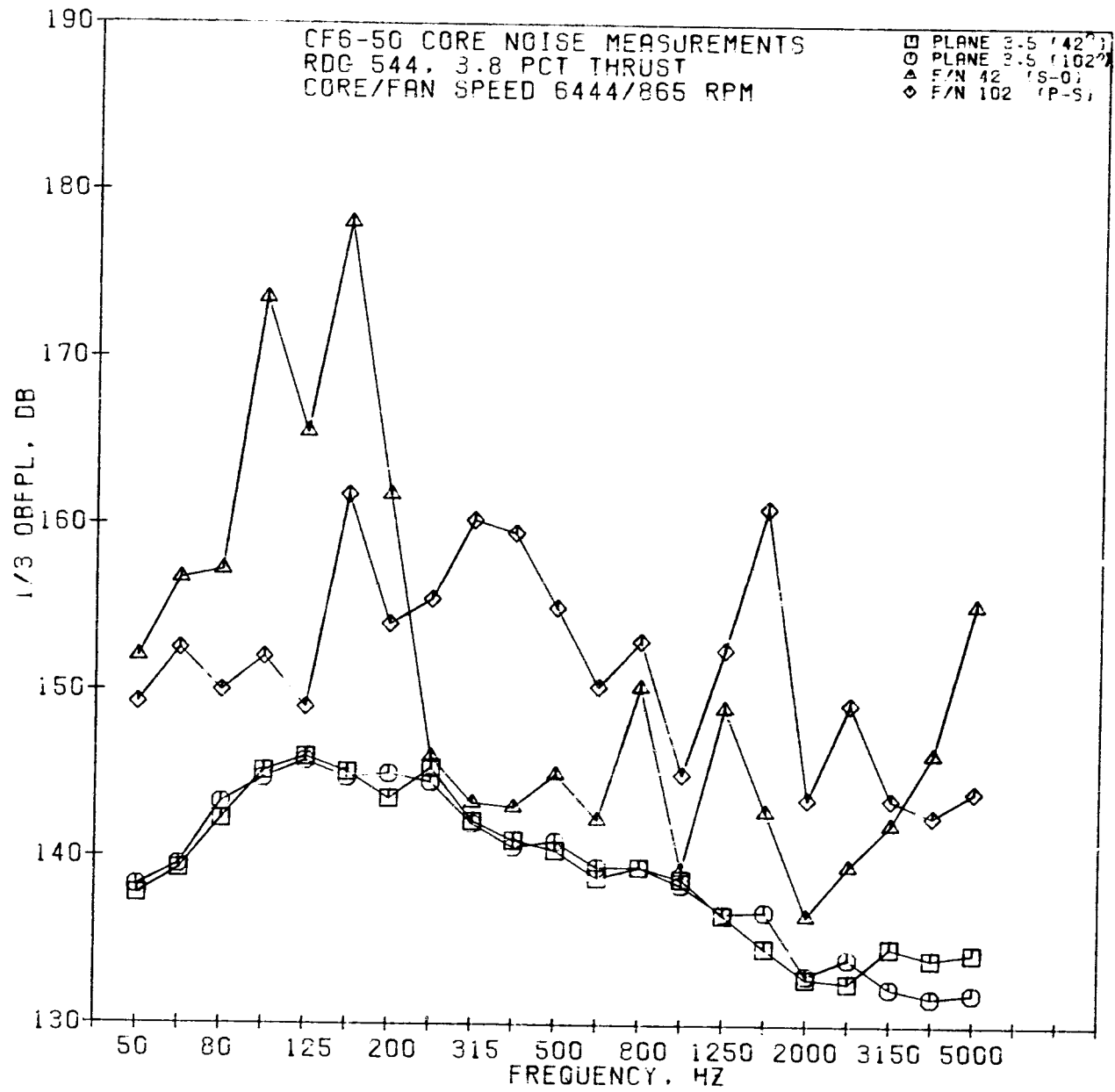
Table 4. Internal Fluctuating Pressure Levels (continued)

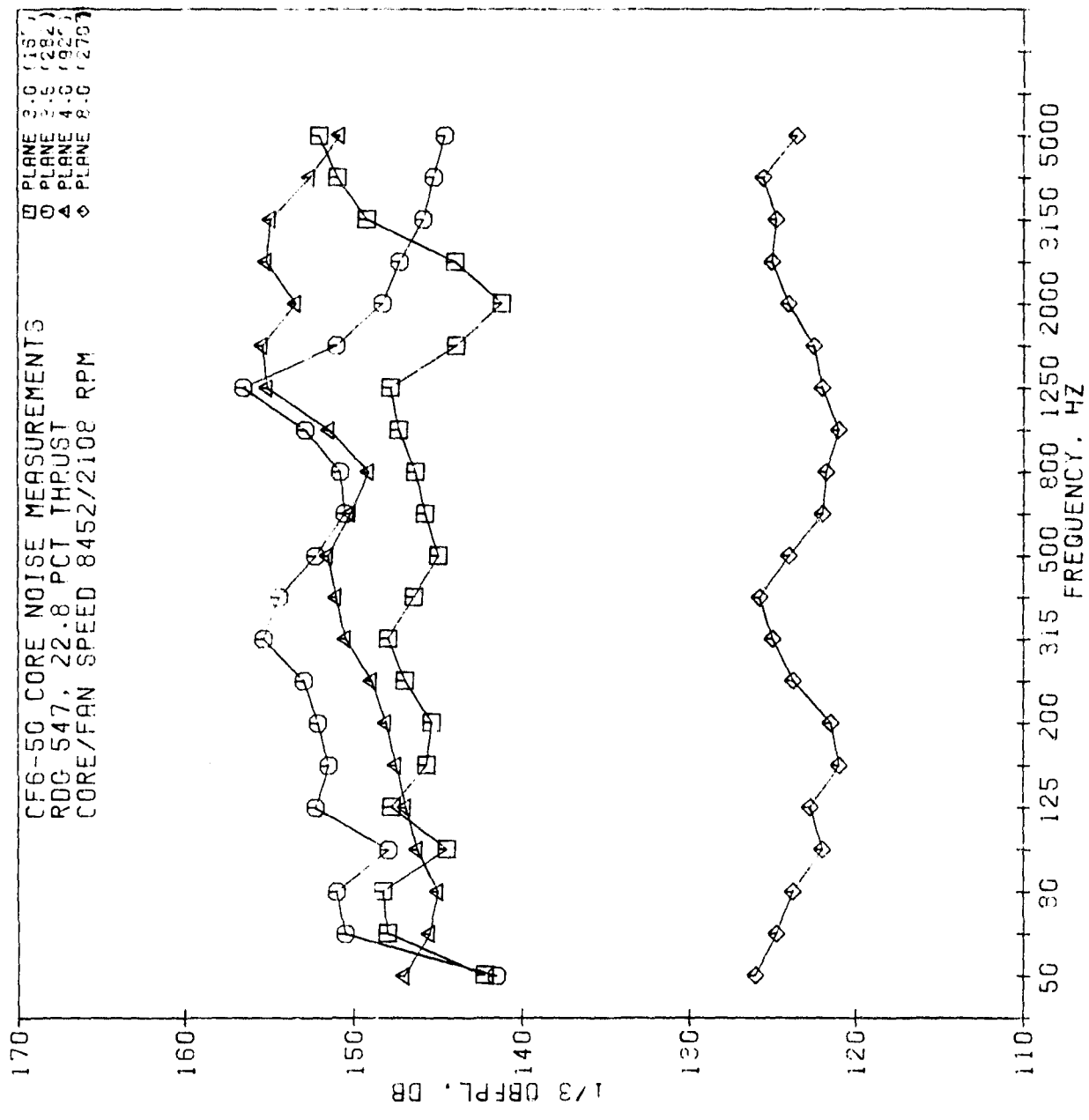
	e) 45.5 % F_n , RDG 561										1) 67.8 % F_n , RDG 563									
Plane	3.0	3.5	3.5	3.5	4.0	8.0A	8.0B	F/N	F/N		3.0	3.5	3.5	3.5	4.0	8.0A	8.0B	F/N	F/N	
θ (deg) FREQ	16.0	42.0	102.0	282.0	92.0	270.0	270.0	42.0	102.0		16.0	42.0	102.0	282.0	92.0	270.0	270.0	42.0	102.0	
50.	142.8	144.8	144.8	148.8	150.5	129.3	129.3	156.5	157.0		143.3	149.0	149.5	152.8	157.3	132.5	130.0	158.5	158.0	
63.	151.8	152.8	153.3	152.3	152.0	131.0	129.5	155.5	154.0		151.3	153.3	155.0	153.8	158.3	133.0	131.3	158.5	158.5	
80.	151.0	154.8	155.3	155.5	151.0	128.0	129.3	155.5	155.0		152.0	156.3	157.8	157.3	157.0	131.8	131.3	156.3	156.8	
100.	147.8	152.6	153.2	153.7	150.0	128.0	129.3	156.5	155.8		150.5	155.4	156.7	156.7	156.8	132.3	132.5	157.5	157.5	
125.	150.5	154.5	154.5	155.0	150.7	129.3	130.5	158.3	159.0		150.5	155.8	156.3	156.5	156.2	132.8	133.3	159.0	159.3	
160.	151.7	154.4	155.0	155.5	153.5	131.8	131.0	162.0	164.0		153.5	157.6	158.3	158.0	158.0	135.3	134.5	165.3	162.8	
200.	152.4	155.5	155.8	156.1	153.9	132.8	129.0	167.8	166.8		153.6	159.5	159.0	159.9	157.6	135.5	133.5	165.5	165.8	
250.	149.0	157.1	157.8	157.0	151.5	126.8	126.0	163.0	163.8		153.0	160.9	161.3	159.8	156.5	132.3	131.0	169.0	169.5	
315.	151.5	160.1	159.8	158.6	152.8	128.5	126.0	163.0	166.8		154.5	163.6	164.3	161.9	157.8	134.5	131.5	166.0	168.3	
400.	150.7	159.3	158.9	160.2	153.8	129.8	126.8	161.8	167.3		153.2	162.5	162.9	164.2	158.8	134.5	132.0	164.0	167.3	
500.	148.3	158.1	157.2	157.5	155.0	127.3	125.5	164.8	164.3		150.5	161.4	160.7	160.8	159.5	132.8	131.0	165.8	166.5	
630.	151.5	157.3	157.9	156.5	155.2	128.8	125.5	170.8	167.0		153.5	158.8	159.9	158.8	158.5	133.3	130.3	168.8	167.0	
800.	150.9	156.4	156.1	155.5	153.4	126.3	125.5	155.5	159.0		152.9	158.1	159.6	158.0	157.1	132.3	132.0	157.0	162.3	
1000.	152.4	158.0	158.9	157.1	154.7	125.5	126.5	154.3	163.8		155.9	160.0	162.9	159.1	157.2	132.3	132.0	157.0	166.3	
1250.	153.6	161.0	161.6	163.1	159.1	127.5	127.5	169.3	167.3		157.6	164.5	164.4	165.4	161.9	133.0	132.3	171.3	168.0	
1600.	147.5	157.9	157.8	157.5	160.0	126.5	127.0	167.5	163.3		150.2	159.6	161.5	159.8	163.5	132.0	130.8	169.8	166.5	
2000.	145.0	155.0	156.0	155.0	157.0	126.8	125.8	157.0	156.3		149.7	157.8	159.8	158.3	160.5	130.8	131.0	157.0	156.8	
2500.	146.0	154.8	155.5	155.0	160.2	127.0	126.3	156.5	156.0		148.3	157.5	159.0	158.0	164.2	131.8	131.0	158.3	157.3	
3150.	151.8	153.4	153.8	152.9	159.2	127.8	125.8	155.0	152.8		153.5	156.6	157.3	156.6	161.7	131.8	130.0	158.3	156.8	
4000.	154.2	151.0	151.0	150.8	156.9	129.3	126.8	154.8	153.5		156.5	154.5	155.5	155.0	159.6	131.8	130.0	158.3	156.3	
5000.	155.0	150.6	151.5	151.1	156.0	132.8	131.0	155.8	156.3		157.8	153.9	155.2	153.9	160.3	132.0	130.3	158.0	160.5	
OVERALL FPL	164.3	169.6	169.9	169.9	169.0	142.3	141.3	176.7	176.2		166.7	172.5	173.3	172.7	172.8	146.2	144.9	178.0	177.7	

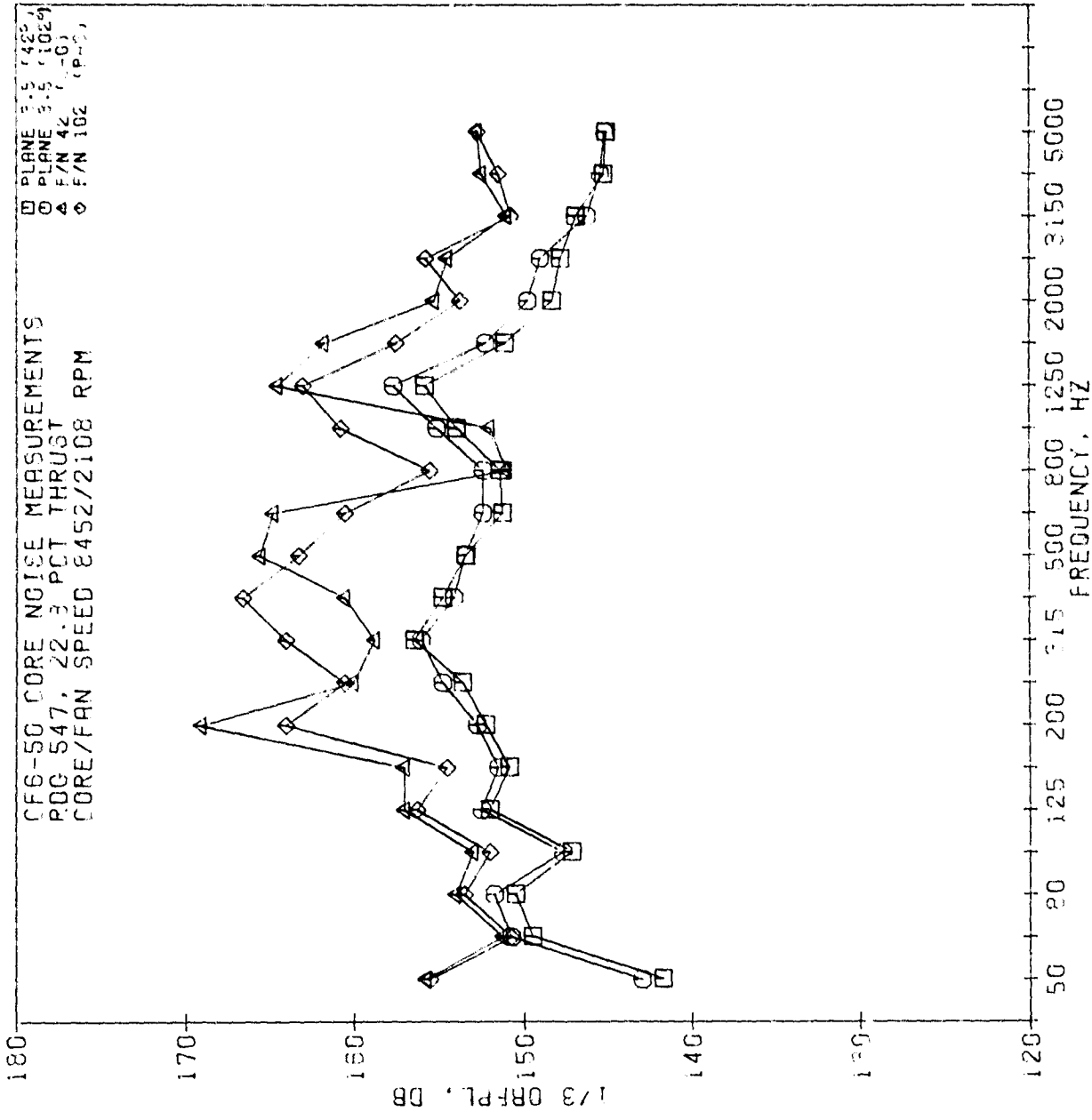
Table 4. Internal Fluctuating Pressure Levels (concluded)

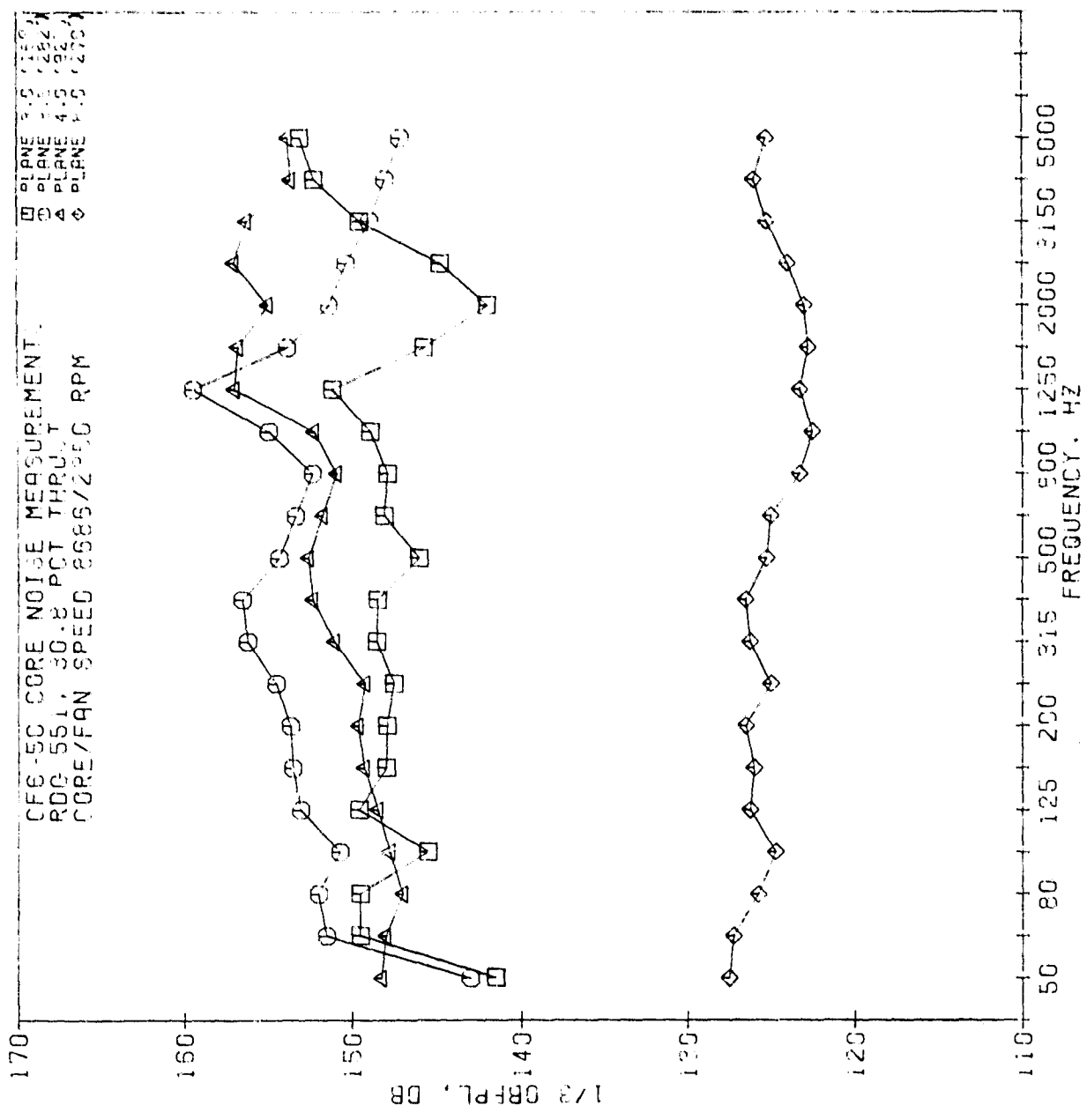
Plane θ (deg) FREQ	g) 85.5% F_n , RDG 565									h) 99.8% F_n , RDG 567								
	3.0	3.5	3.5	3.5	4.0	8.0A	8.0B	/N	F/N	3.0	3.5	3.5	3.5	4.0	8.0A	8.0B	F/N	F/N
	16.0	42.0	102.0	282.0	52.0	270.0	270.0	42.0	102.0	16.0	42.0	102.0	282.0	92.0	270.0	270.0	42.0	102.0
50.	145.5	151.8	152.0	154.5	154.8	134.3	131.0	158.0	157.0	149.5	154.8	156.0	157.0	153.0	134.0	133.0	157.0	158.5
63.	152.3	154.5	156.0	154.5	157.0	135.8	134.0	160.3	160.5	152.0	154.5	156.8	154.8	157.0	137.3	135.5	159.5	161.5
80.	152.3	157.8	159.5	158.8	155.0	135.0	133.0	157.8	158.3	153.8	159.3	161.0	160.3	154.8	134.3	135.3	158.5	160.5
100.	152.8	156.6	158.7	157.7	155.3	136.0	133.8	160.0	160.5	155.0	159.4	161.5	160.2	155.0	134.5	136.0	159.3	162.3
125.	151.8	156.5	158.0	158.3	155.2	136.5	135.0	162.5	162.5	153.3	158.0	160.0	158.8	155.5	137.0	138.0	161.8	164.0
160.	155.0	158.9	160.0	160.3	158.3	138.5	137.3	169.8	167.3	155.5	161.4	162.3	162.8	158.5	139.0	139.5	167.5	167.5
200.	153.9	161.0	161.5	161.6	157.1	137.8	137.0	167.3	167.5	155.4	163.0	163.8	162.4	157.1	139.3	139.5	167.3	168.3
250.	154.5	162.9	163.3	161.8	156.7	135.8	135.5	171.8	172.0	156.8	164.9	165.3	163.3	157.2	135.3	138.0	173.5	174.3
315.	157.3	165.6	166.0	163.9	158.8	138.3	135.8	168.3	170.0	161.8	167.6	169.0	165.6	158.3	137.8	137.3	175.5	171.8
400.	155.7	165.0	164.9	165.7	160.3	137.3	135.8	166.3	169.3	157.5	167.0	167.9	168.0	160.3	139.0	137.0	171.3	171.0
500.	152.3	162.1	162.7	162.5	161.3	135.3	133.8	168.8	168.3	153.8	164.4	164.5	165.0	161.5	138.8	136.0	168.0	169.8
630.	153.8	159.3	160.6	159.5	159.2	136.0	133.3	168.5	167.0	154.3	160.8	162.6	160.8	159.7	140.8	136.3	167.8	167.8
800.	154.6	159.1	160.9	158.8	157.9	134.8	134.5	158.5	163.0	155.9	161.1	162.4	160.3	157.6	138.5	136.8	159.3	163.8
1000.	157.4	161.2	163.6	160.6	158.8	134.8	134.5	158.8	166.8	158.6	163.2	165.4	162.1	158.0	138.0	134.5	159.0	166.5
1250.	158.6	167.5	166.6	165.9	163.9	134.8	133.3	172.8	169.3	159.9	169.5	168.4	166.9	163.4	138.3	134.8	173.3	169.5
1600.	150.5	161.1	162.5	161.0	164.7	134.0	132.5	171.0	167.5	151.5	162.9	164.0	162.5	164.2	139.0	132.8	172.5	168.8
2000.	150.7	159.3	161.5	159.8	161.5	133.0	132.3	158.8	158.3	151.5	161.0	162.8	161.0	161.5	138.0	133.0	159.5	160.0
2500.	150.0	159.0	160.5	159.8	165.7	133.0	132.3	159.8	158.5	151.5	160.8	162.0	161.3	165.2	138.5	132.8	161.5	159.5
3150.	154.8	158.6	158.5	158.1	163.5	133.3	131.8	160.5	159.0	155.8	159.6	160.5	159.4	162.5	138.5	132.8	161.8	160.3
4000.	158.7	156.3	156.7	156.8	160.9	133.0	131.5	158.3	159.5	160.5	157.3	159.0	158.0	160.9	138.3	132.3	159.3	158.3
5000.	158.8	155.1	157.0	155.9	162.3	134.3	135.5	158.0	161.0	158.8	156.4	158.7	157.4	162.0	139.0	135.8	159.8	162.0
OVERALL FPL	168.2	174.4	175.0	174.1	173.9	148.8	147.5	179.8	179.4	169.9	176.3	177.1	175.8	173.6	151.3	149.3	181.6	180.7

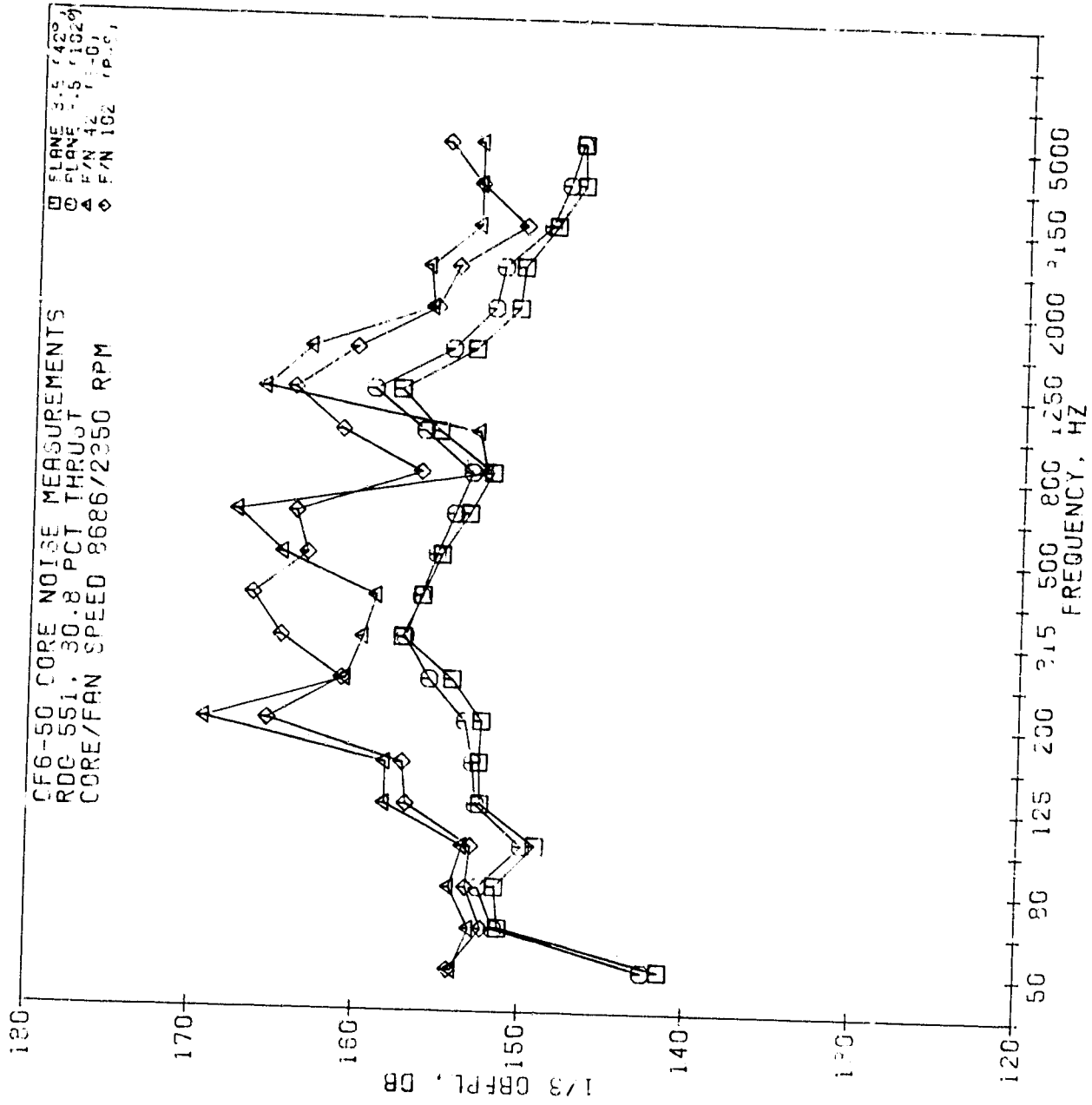


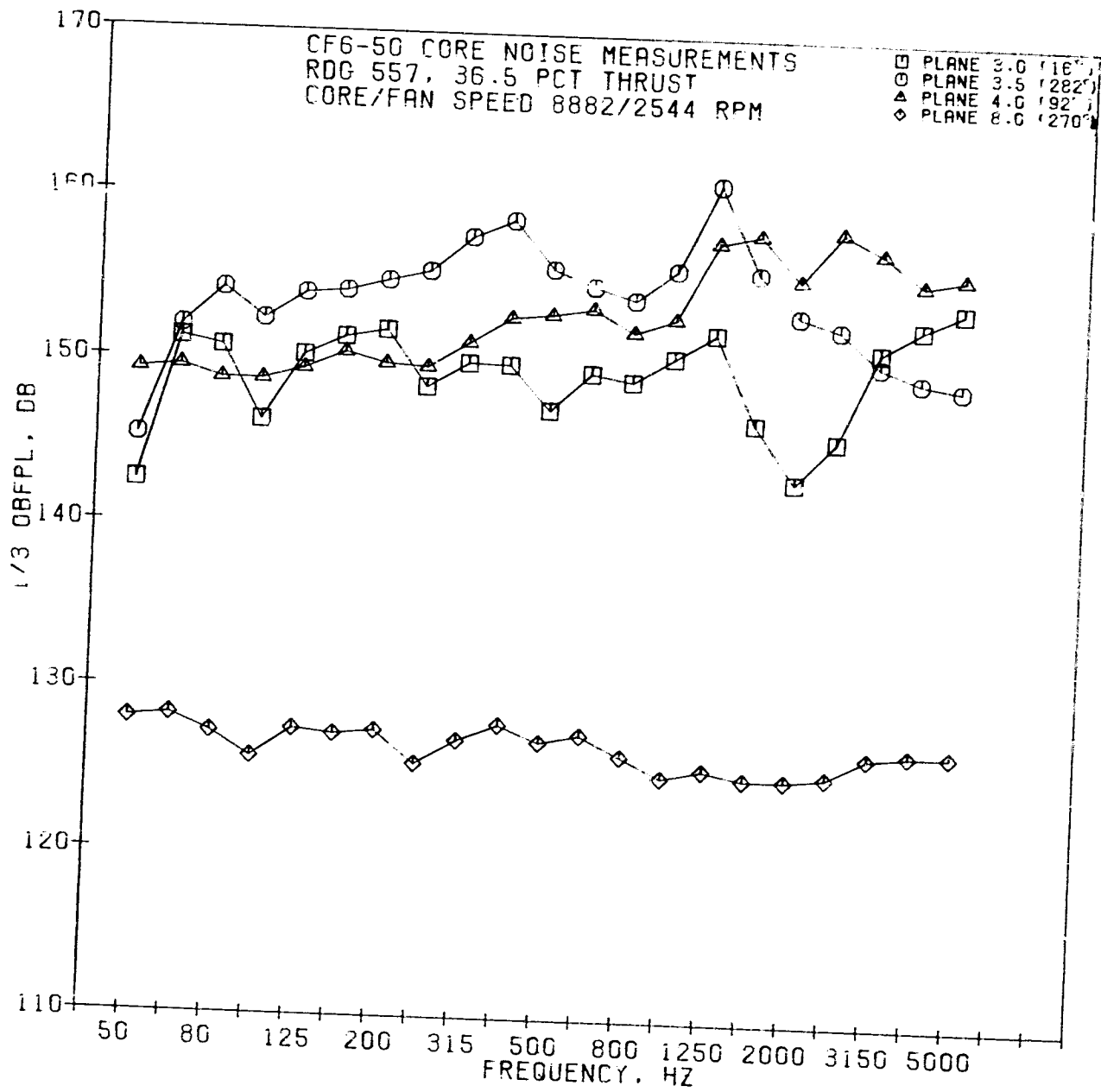


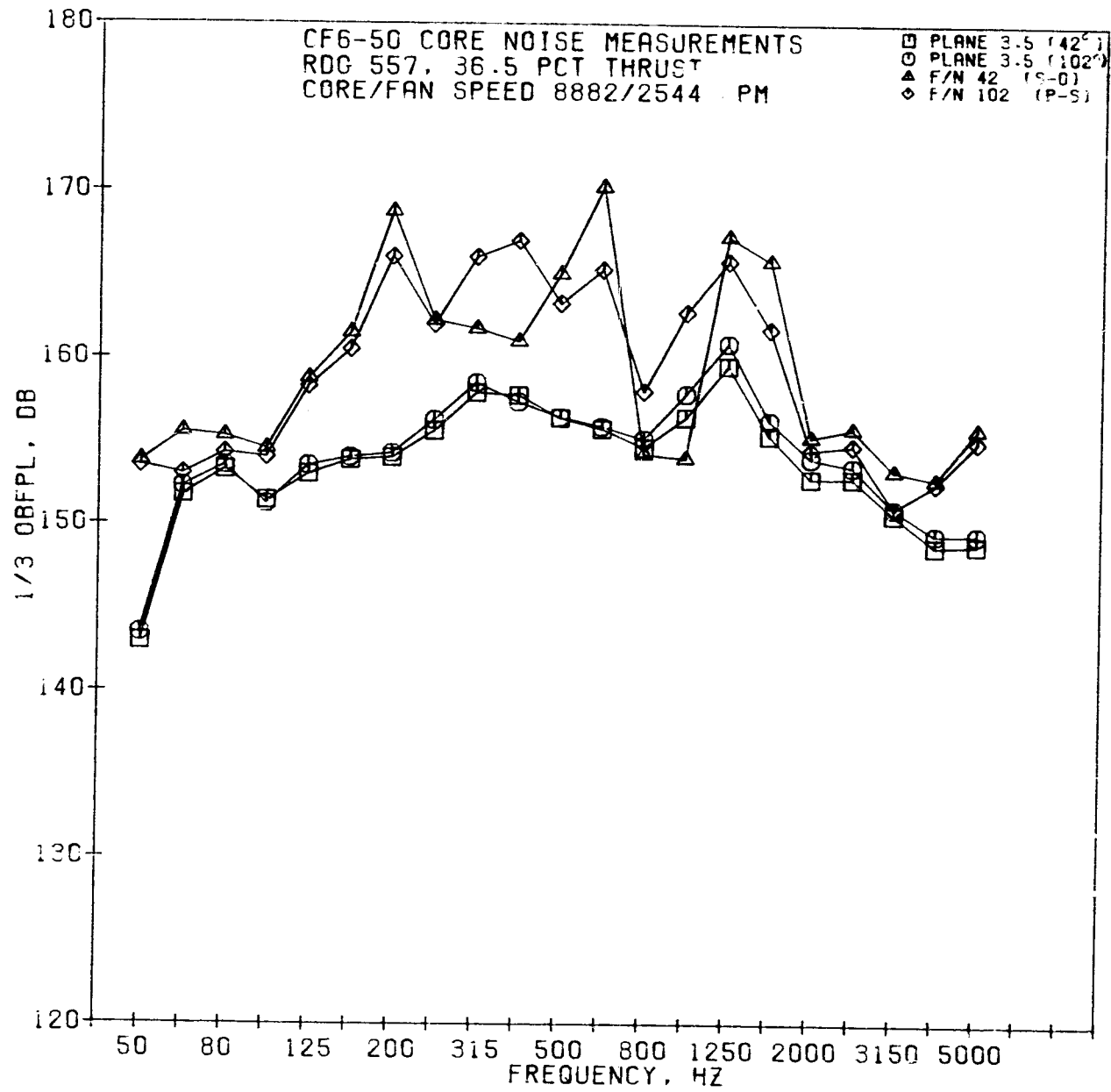






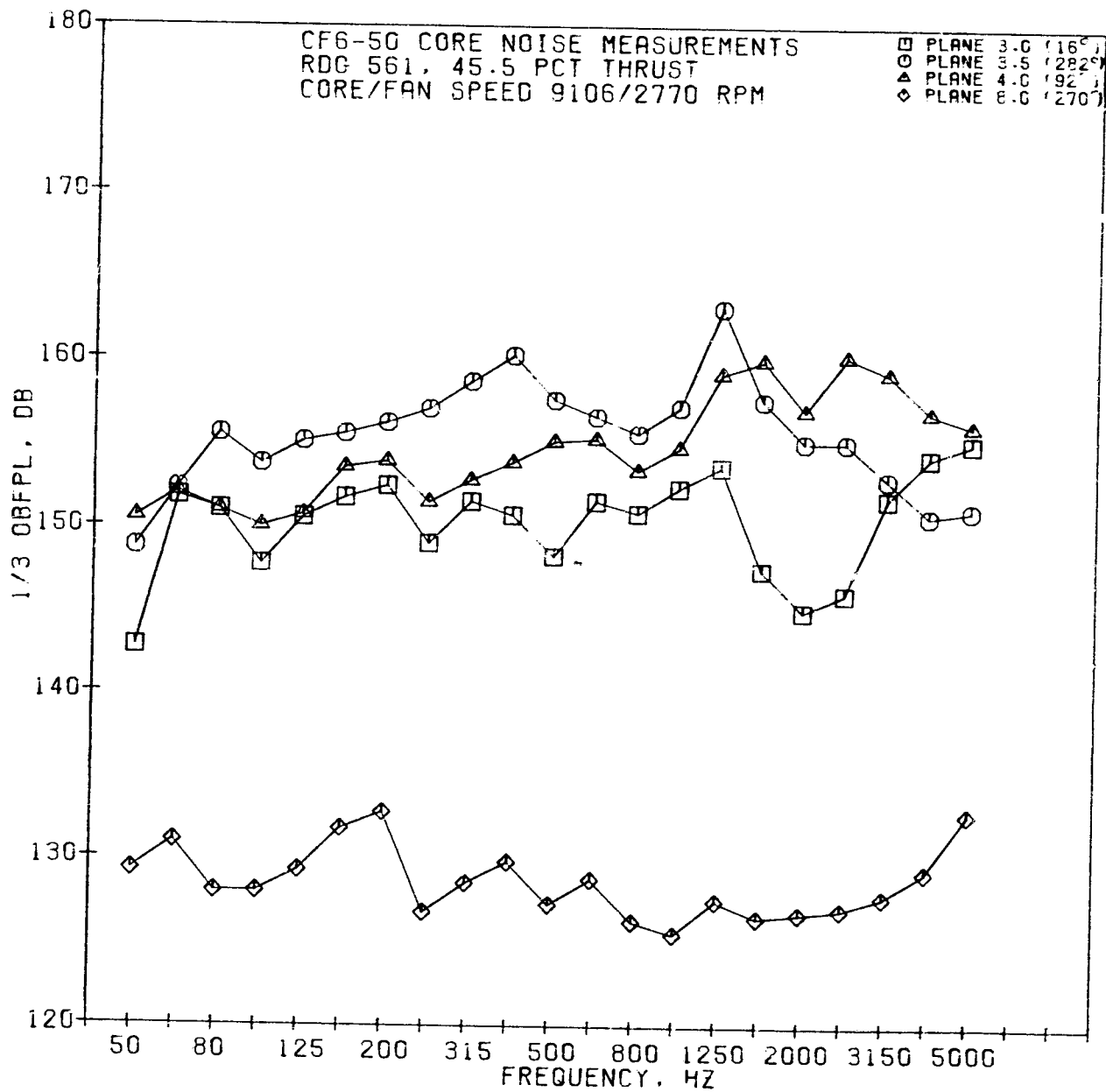


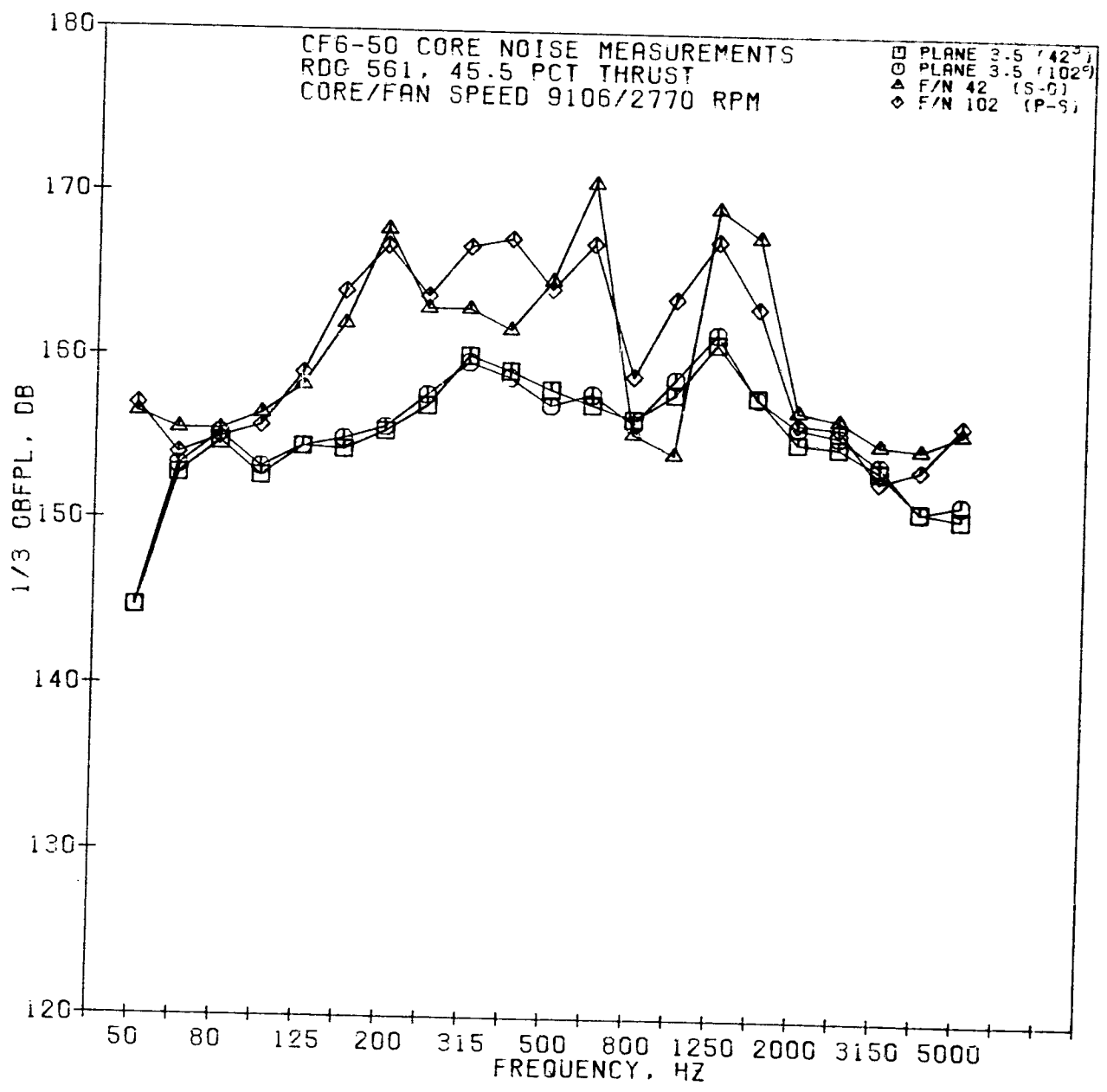




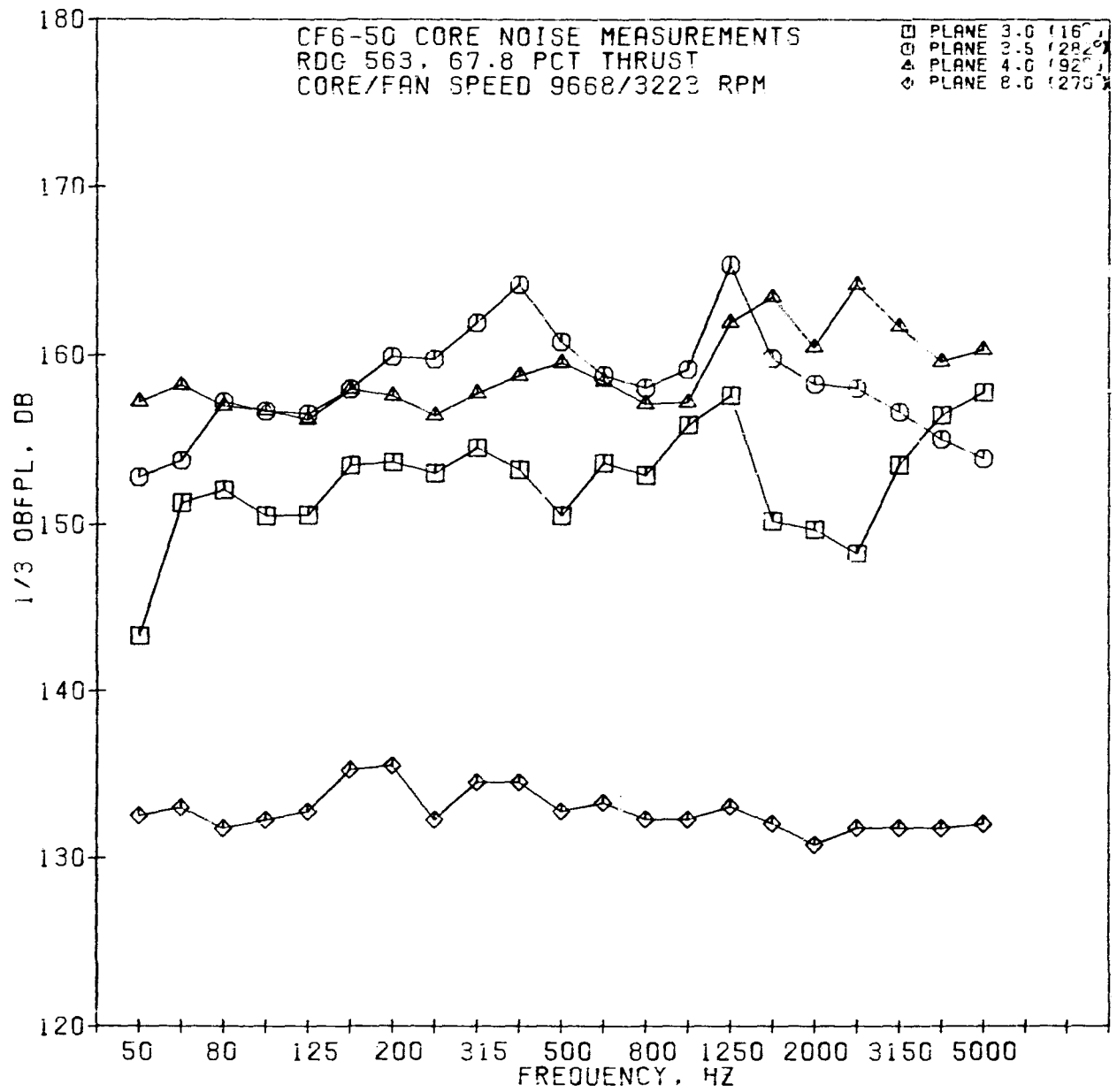
02/19/79
 20796-001

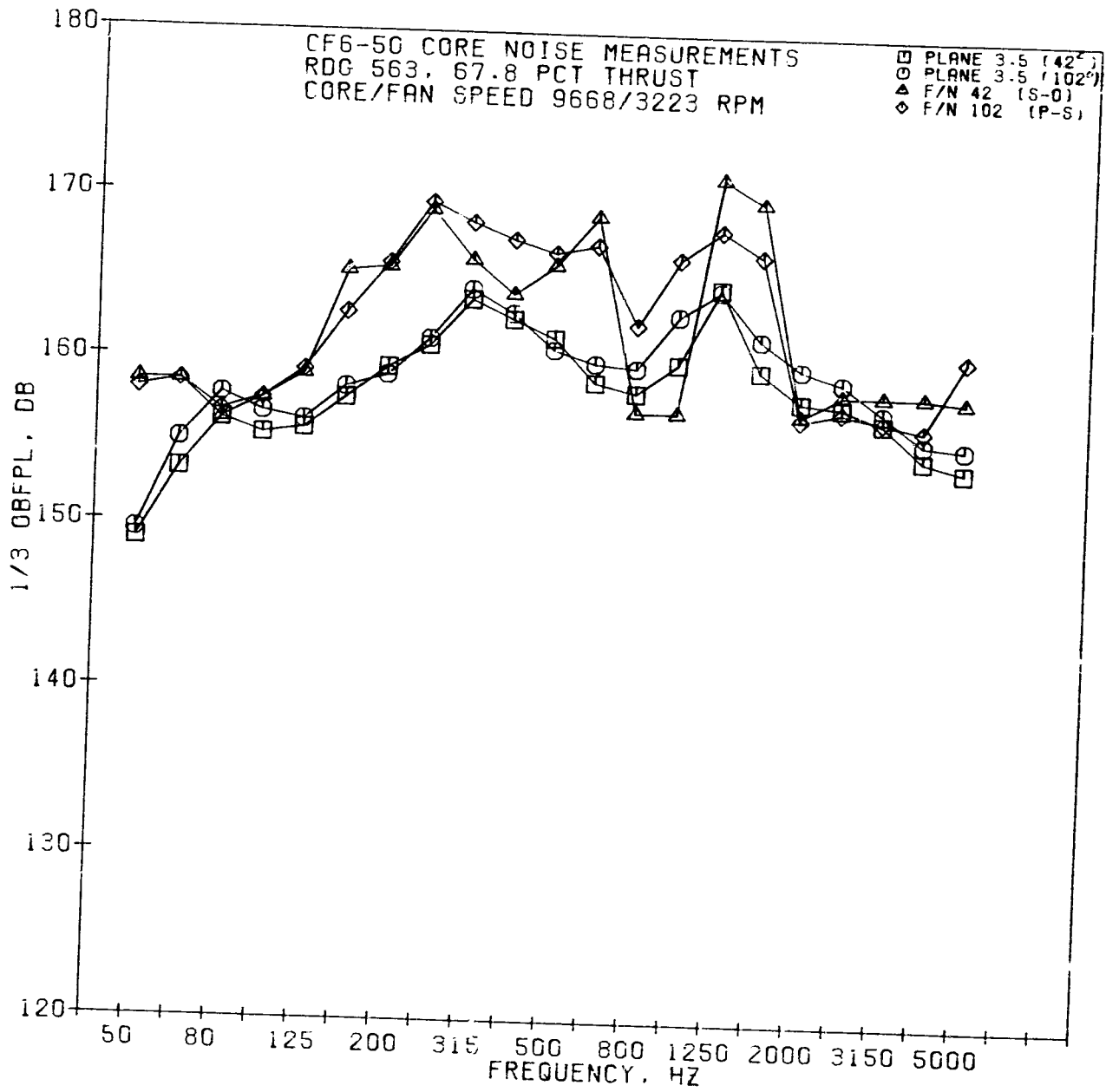
79 COLBERT J





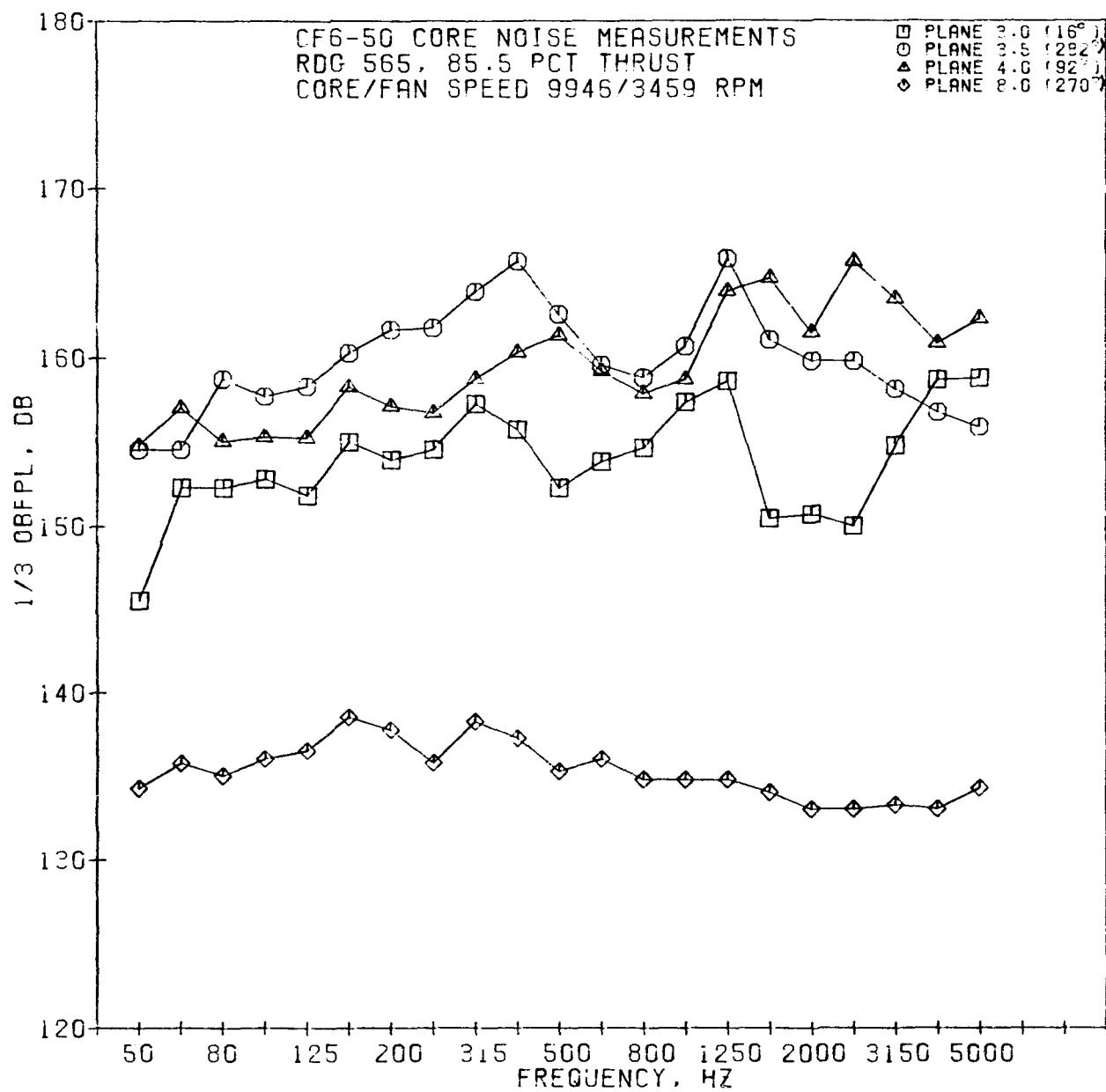
02/19/79
 20796-001

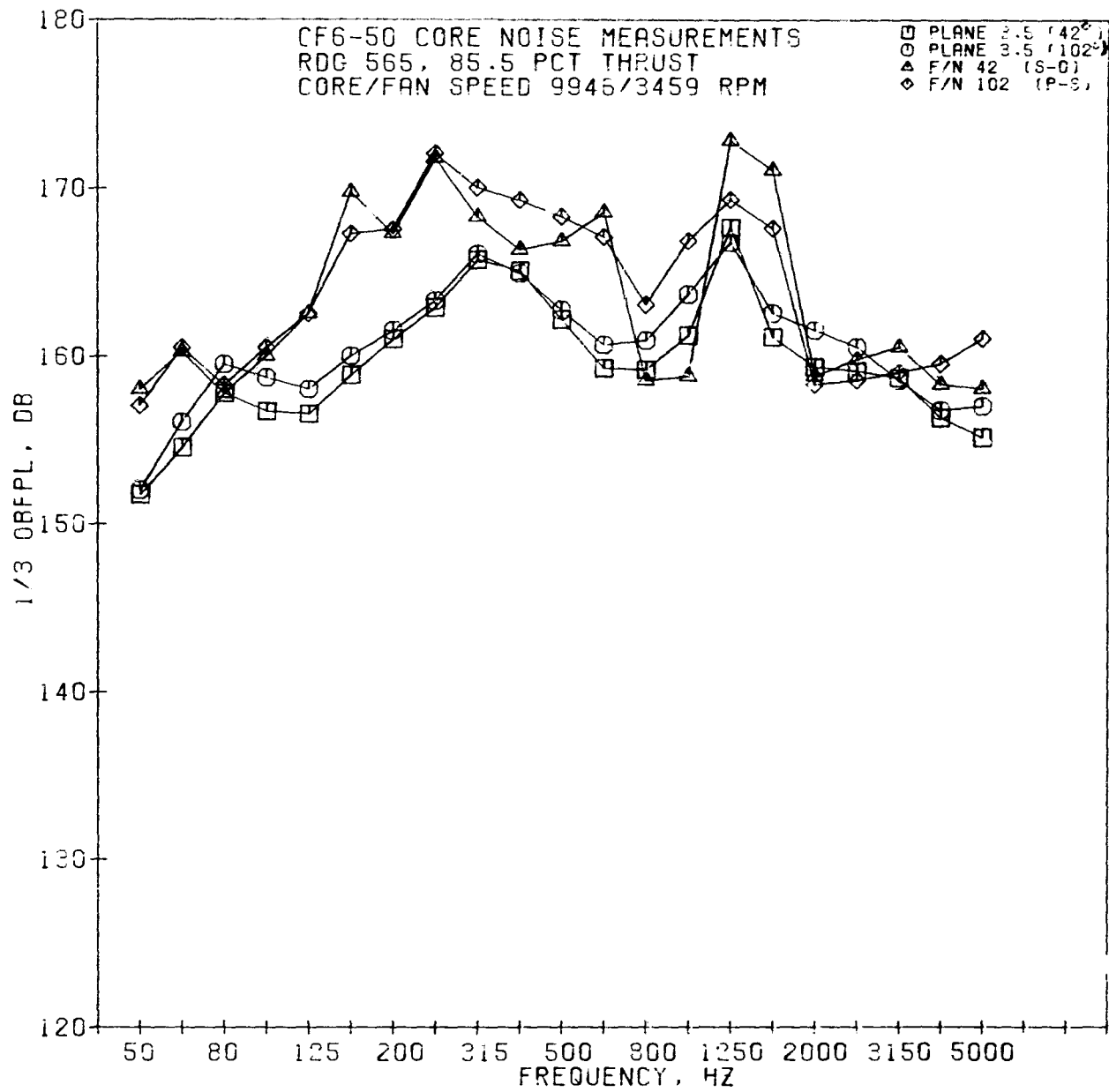




02/19/79
 20796-001

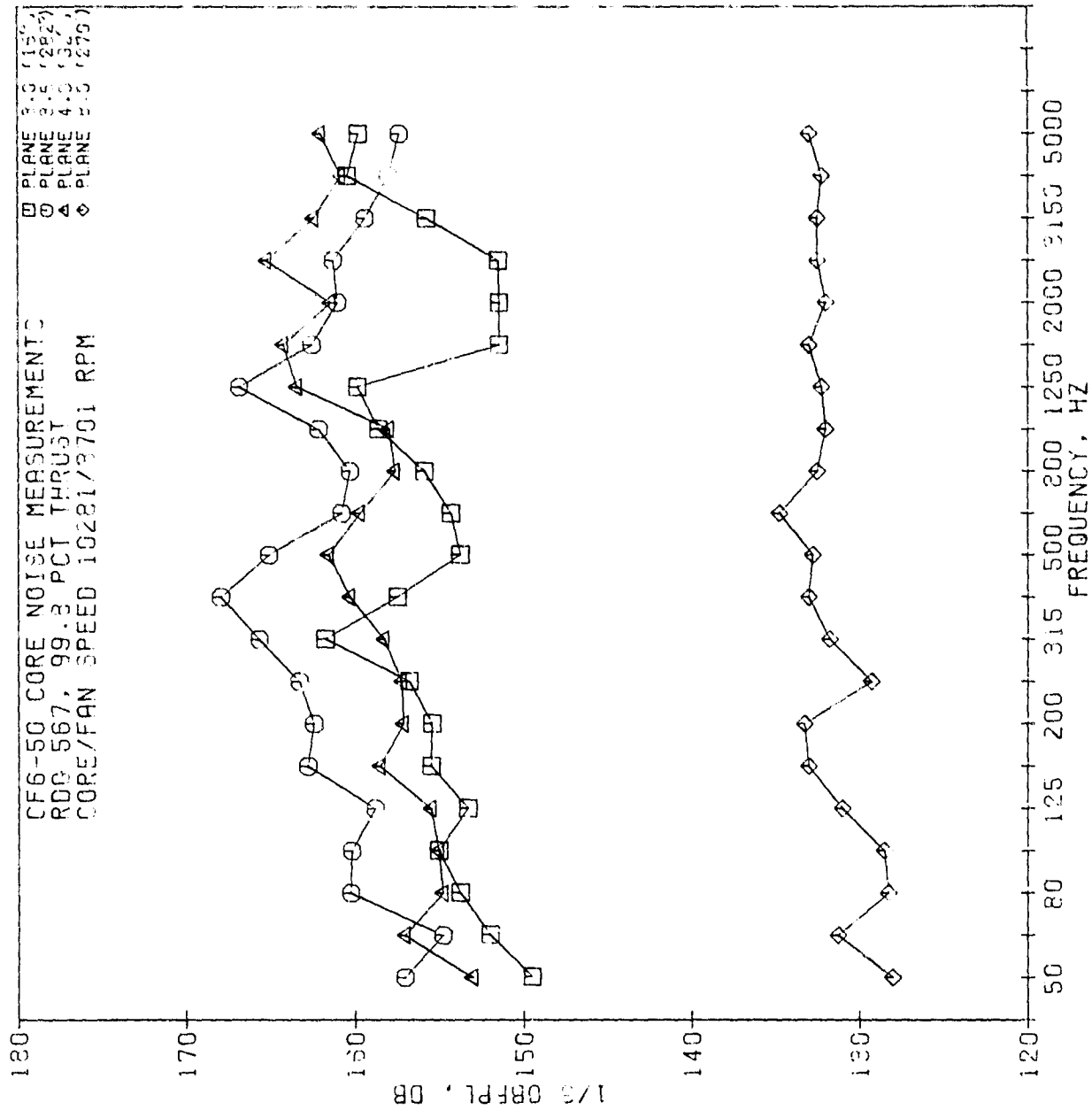
79 11BE J



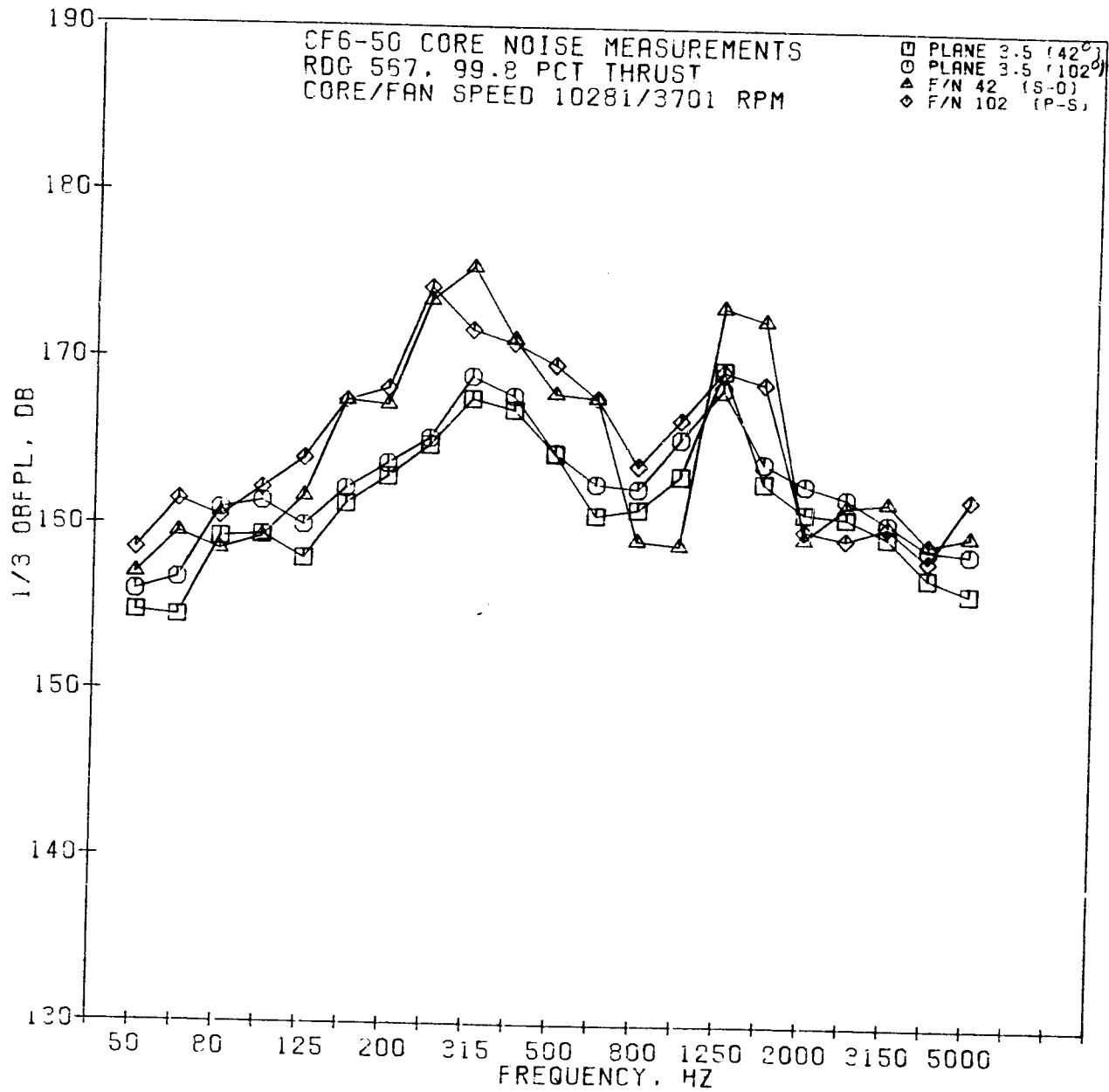


02/19/79
 20700-00-

79 LBE J



2021-1-15



02/19/79
20700-00

FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 2 DAY 3 HR. 15.e

Table 5a. SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)

		ANGLES FROM INLET IN DEGREES (AND RADIANs)															
		10.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	
		FREQ. (0.17)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.79)	
NO EGA		50	70.9	70.4	70.1	71.6	70.1	70.9	71.1	71.4	71.1	71.9	73.1	73.4	73.6	72.9	73.4
RADIAL 150. FT. (46. M)		63	70.4	70.9	68.4	70.4	69.6	69.6	70.4	70.6	70.4	70.1	71.6	73.1	73.6	72.1	72.6
VEHICLE CF6-50		125	68.5	69.8	67.8	70.5	70.3	68.0	68.0	69.5	70.0	70.3	71.8	72.5	72.5	71.8	69.8
CONFIG E2LFCN		160	67.5	68.5	67.5	69.2	66.7	65.0	66.0	67.5	67.5	68.0	70.0	71.7	71.7	70.0	67.0
LOC SITE IVD		200	69.8	69.3	69.1	69.3	67.3	66.3	67.3	68.1	68.8	69.3	72.1	73.1	73.6	72.1	68.1
DATE 12-17-78		250	70.2	70.2	71.2	68.7	69.5	69.7	70.0	71.0	71.5	72.5	73.5	74.2	74.2	71.7	68.7
RUN 150 FT GND		315	70.5	70.7	71.7	68.7	69.5	68.5	69.2	69.7	70.7	71.7	73.0	74.5	73.7	71.7	67.7
RDG X05440		400	72.4	72.2	72.9	72.1	70.9	69.6	69.1	70.1	71.6	72.4	75.1	76.9	75.6	71.4	68.1
BAR 28.2 HG (95166. N/M2)		500	75.7	76.7	76.2	74.7	72.2	70.5	70.5	71.0	72.5	73.5	76.2	77.7	77.5	74.2	70.5
TAMB 32. DEG F (273. DEG K)		630	76.5	76.5	75.0	71.8	70.8	66.8	67.0	67.5	69.5	71.0	74.5	76.8	74.5	71.8	66.5
		800	79.2	74.2	77.4	74.2	71.7	66.9	67.4	67.2	66.7	68.7	72.7	72.7	72.2	69.2	65.9
		1000	92.7	83.4	87.4	80.7	74.4	71.2	69.7	68.4	68.2	68.7	72.7	72.2	70.4	69.7	66.9
TWET 27. DEG F (270. DEG K)		1250	83.2	75.4	78.2	72.4	71.7	66.7	64.7	64.2	65.9	66.9	70.2	71.4	67.7	64.7	61.9
HACT 0. GM/M3 (***** KG/M3)		1600	79.7	76.2	76.2	73.4	72.7	68.9	67.9	69.4	71.7	71.9	75.4	75.4	71.9	66.9	64.2
		2000	83.6	79.4	84.1	76.6	74.4	70.9	67.9	67.9	69.4	71.4	73.9	74.9	72.1	66.6	63.6
		2500	81.5	78.0	80.3	75.8	75.5	69.0	64.5	64.3	66.0	68.3	70.5	73.5	71.4	66.5	63.3
NFA 842. RPM (88. RAD/SEC)		3150	82.8	79.5	80.8	76.8	76.5	68.8	64.3	63.8	65.5	68.5	71.3	71.0	69.9	68.8	63.3
		4000	87.2	83.3	82.0	82.9	79.7	74.0	68.4	67.2	67.1	70.5	71.5	72.1	72.5	75.0	66.6
NFK 865. RPM (91. RAD/SEC)		5000	79.7	77.6	71.1	71.9	76.5	67.9	65.2	63.4	63.7	65.6	67.9	71.6	68.8	68.3	63.9
		6300	72.2	69.2	73.1	69.6	77.2	68.2	62.5	61.7	64.9	63.7	66.5	70.0	69.7	65.7	64.0
NFD 1. RPM (0. RAD/SEC)		8000	72.3	70.8	71.1	69.4	78.5	66.3	62.2	61.6	64.1	65.3	69.4	72.2	70.3	64.7	63.1
		10000	68.3	66.7	63.9	65.8	74.9	65.2	62.3	60.8	63.0	63.7	66.3	69.0	66.8	63.3	62.8

OVERALL SPL 95.6 90.2 92.0 88.5 87.7 82.9 81.7 82.1 82.9 83.9 86.3 87.5 86.6 84.7 81.9

ORIGINAL PAGE IS
OF POOR QUALITY

FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 2 DAY 9 HR. 15.8

Table 5b.

SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

228

		10.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.
	FREQ.	(0.17)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.79)
NO EGA	63	76.1	74.4	74.1	73.4	76.4	77.9	79.1	79.9	79.6	80.4	81.1	81.9	82.9	81.9	83.4
RADIAL 150. FT. (46. M)	80	76.1	74.6	75.1	75.8	76.8	77.3	77.1	79.1	79.1	80.1	81.3	82.1	83.6	81.6	81.3
VEHICLE CF6-50	125	77.4	76.6	77.4	76.9	78.6	79.6	79.1	79.4	79.6	80.1	80.9	81.6	82.6	81.1	79.6
CONFIG E2LFCN	130	80.7	77.7	78.2	77.0	78.7	77.2	78.0	78.5	78.5	78.5	80.2	81.2	80.7	80.0	77.5
LOC SITE IVD	200	80.1	79.6	81.3	79.8	77.6	77.3	77.1	77.6	78.3	78.1	80.1	80.3	80.3	79.8	77.8
DATE 12-17-78	250	79.2	81.0	82.0	79.7	77.7	77.7	78.5	79.7	80.2	80.2	81.2	81.2	80.7	79.7	77.2
RUN 150 FT GND	315	79.0	79.2	80.5	78.7	79.2	79.0	79.0	80.0	81.0	82.0	82.5	83.2	82.2	80.5	77.2
RDG X05470	400	78.1	80.1	80.6	80.6	79.6	78.9	78.9	80.4	81.1	82.4	83.9	84.4	82.4	79.1	77.1
BAR 28.2 HG (95166. N/M2)	500	79.7	81.0	81.7	81.2	79.5	78.7	78.7	79.5	80.7	82.5	83.7	84.5	82.5	82.2	76.5
TAMB 32. DEG F (273. DEG K)	630	79.5	82.0	82.0	81.3	78.8	77.5	77.5	78.8	78.8	80.5	83.3	83.8	81.8	78.3	76.0
(273. DEG K)	1000	82.2	81.9	83.4	80.4	79.9	77.9	77.2	77.9	78.4	79.7	81.4	81.7	79.9	75.4	75.7
TWET 27. DEG F (270. DEG K)	1250	88.9	89.7	90.2	88.2	85.9	83.9	81.2	79.9	80.9	81.4	82.2	85.7	81.4	77.9	77.2
(270. DEG K)	1600	85.2	85.2	84.9	82.9	81.4	78.7	76.9	76.7	78.4	78.9	79.9	80.2	78.4	74.9	73.9
HACT 0. GM/M3 (***** KG/M3)	2000	85.9	85.6	87.1	83.1	81.1	78.6	76.6	77.4	78.1	80.6	81.1	81.1	78.4	73.9	72.9
(***** KG/M3)	2500	97.3	94.5	95.0	89.3	89.8	84.3	80.5	79.8	81.3	82.8	84.5	85.5	83.9	78.0	76.8
NFA 2042. RPM (214. RAD/SEC)	3150	89.5	89.7	89.5	87.5	84.2	81.2	77.7	77.5	79.7	84.2	85.0	83.0	83.1	75.5	73.7
(214. RAD/SEC)	4000	92.1	94.0	92.0	92.9	91.1	90.2	83.1	81.4	82.3	88.5	91.2	89.0	82.5	79.7	76.0
NFK 2098. RPM (220. RAD/SEC)	5000	90.4	91.1	85.0	84.1	85.2	82.8	81.7	79.9	79.9	81.1	84.1	86.3	81.0	78.2	75.9
(220. RAD/SEC)	6300	85.0	86.2	91.4	87.6	88.2	86.7	78.7	77.7	80.4	78.7	81.3	83.5	80.2	75.2	74.2
NFD 1. RPM (0. RAD/SEC)	8000	86.8	87.5	89.6	87.2	86.5	84.8	77.0	75.3	77.8	79.1	80.4	80.4	77.5	73.2	70.6
(0. RAD/SEC)	10000	83.6	85.0	81.2	84.3	80.2	78.3	75.1	75.1	76.6	79.5	81.3	80.8	76.6	73.1	70.1

OVERALL SPL

101.0 100.7 100.7 98.5 97.6 95.8 92.6 92.7 93.5 95.4 97.1 97.2 95.2 93.0 91.7

FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 2 DAY 9 15.3

Table 5c. SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

		10.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.
	FREQ.	(0.17)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.79)
NO EGA	50	75.4	73.9	76.1	73.4	77.1	78.4	79.1	80.4	80.9	81.6	83.4	84.1	85.4	86.4	88.1
	63	77.1	75.6	75.6	74.0	77.6	79.1	81.1	81.6	81.9	82.4	83.9	85.6	86.4	85.9	87.4
RADIAL 150. FT.	80	78.3	76.8	77.1	78.3	78.8	79.6	80.0	82.8	82.8	83.1	84.8	85.6	86.8	85.1	86.1
(46. M)	100	79.6	78.1	79.4	79.1	81.4	81.6	81.9	82.6	81.6	82.9	84.1	85.1	86.1	85.1	83.6
VEHICLE CF6-30	125	83.3	81.8	81.5	79.5	81.3	81.0	81.0	82.0	82.3	83.0	84.3	84.8	84.3	84.8	81.5
CONFIG E2LFCN	160	83.7	81.2	81.2	80.2	81.5	79.5	81.2	81.7	81.5	82.5	83.7	84.5	84.7	83.7	81.5
LOC SITE IVD	200	82.8	82.8	83.3	82.6	80.6	80.3	80.3	80.8	81.3	81.1	83.3	83.3	83.6	82.8	81.3
DATE 12-17-78	250	81.2	82.5	82.7	81.5	80.2	80.2	80.7	81.7	81.5	81.5	83.2	84.2	83.5	82.5	80.2
RUN 150 FT GND	315	80.5	80.7	82.2	81.2	81.7	81.2	81.2	82.2	82.2	83.7	84.5	85.5	84.0	82.7	79.5
RDG	400	79.0	80.4	82.0	82.9	82.4	81.1	81.4	82.4	83.4	83.9	85.4	86.1	83.9	81.4	79.9
BAR 28.2 HG	500	81.7	83.2	84.0	83.0	81.5	80.5	80.7	82.2	82.7	84.0	86.0	86.2	83.5	80.7	79.2
(95166. N/M2)	630	81.5	84.8	84.3	83.3	81.3	80.3	79.8	81.0	81.5	82.3	84.8	85.8	83.8	80.8	79.0
TAMB 32. DEG F	800	82.2	84.2	84.2	82.7	81.4	80.2	79.7	80.7	80.9	82.4	84.4	85.2	83.2	79.9	78.9
(273. DEG K)	1000	83.2	83.9	84.9	82.9	81.9	80.7	79.7	80.2	80.7	81.7	83.4	83.9	81.2	78.7	77.4
TWET 27. DEG F	1250	88.2	88.2	87.7	86.7	84.9	83.9	81.4	80.9	81.4	81.7	83.4	84.9	81.4	79.2	77.7
(270. DEG K)	1600	90.4	91.7	91.7	90.4	88.4	86.9	83.7	82.7	83.2	82.9	84.9	87.4	82.7	80.4	78.7
HACT 0. GM/M3	2000	87.1	86.9	88.9	85.6	83.1	81.6	79.6	79.9	80.6	83.1	83.4	83.4	80.6	77.6	75.6
(***** KG/M3)	2500	92.5	91.0	92.3	89.0	86.3	84.0	80.8	81.0	82.5	84.3	85.3	86.3	82.7	78.5	77.0
NFA 2289. RPM	3150	97.5	95.0	96.0	94.5	88.5	86.3	82.3	81.3	82.5	87.3	88.6	87.5	84.2	81.0	77.5
(240. RAD/SEC)	4000	94.2	98.8	92.0	93.4	89.7	87.3	84.2	83.7	83.1	88.5	90.5	88.8	82.0	82.3	77.8
NFK 2352. RPM	5000	92.0	94.6	87.8	89.4	88.3	87.6	84.7	84.2	83.7	86.6	87.6	90.3	83.6	83.8	78.4
(246. RAD/SEC)	6300	86.7	89.4	93.4	90.1	91.0	91.2	85.0	84.0	84.4	85.7	85.0	87.8	83.5	83.5	78.0
NFD 1. RPM	8000	89.3	91.7	92.3	90.9	88.7	87.7	80.7	81.8	79.8	86.8	83.1	85.1	79.7	84.4	74.1
(0. RAD/SEC)	10000	86.2	89.2	84.1	87.7	82.1	84.2	78.0	80.7	78.5	86.4	83.5	86.2	78.2	83.7	72.8
OVERALL SPL		102.5	103.6	102.4	101.3	98.9	98.0	95.4	95.7	95.9	98.1	99.1	99.9	97.5	96.7	95.2

FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 2 DAY 9 HR. 15.8

Table 5d. SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

230

	FREQ.	10	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.
		(0.17)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.79)
NG EGA	50	75.9	75.4	77.1	77.4	78.1	79.6	80.1	81.1	81.9	83.4	84.9	85.9	87.4	89.1	90.9
RADIAL 150. FT. (46. M)	63	78.1	77.6	77.4	77.1	79.4	80.4	81.9	82.9	82.9	83.6	85.1	87.1	88.1	88.4	90.6
VEHICLE CF6-50	80	79.8	78.3	79.1	80.1	81.3	81.8	81.6	84.6	84.1	85.1	86.1	87.6	89.1	88.6	89.6
CONFIG E2LFCN	100	81.9	80.4	80.9	81.1	82.9	83.6	83.6	83.9	83.6	84.9	86.1	87.4	89.1	87.9	86.9
LOC SITE IVD	125	85.0	83.5	83.3	82.0	84.0	83.8	82.5	84.0	84.0	84.8	85.8	87.0	87.0	87.8	84.5
DATE 12-18-78	150	86.0	84.2	83.7	82.0	83.7	82.7	82.7	83.5	83.7	84.2	86.2	86.7	87.2	87.0	84.0
RUN 150 FT GND	200	84.6	84.8	85.3	83.8	82.3	82.8	82.3	82.8	83.1	83.3	85.6	85.8	86.3	85.3	83.8
RDG X05570	250	81.7	83.7	83.7	83.0	82.5	82.7	82.2	83.7	83.5	83.5	84.7	85.5	85.7	85.0	82.7
BAR 28.2 HG (95166. N/M2)	315	82.0	84.0	85.0	85.0	84.2	83.7	85.2	84.5	84.2	85.0	86.0	87.2	86.0	84.0	82.0
TAMB 31. DEG F (273. DEG K)	400	82.1	84.9	85.9	86.6	85.4	84.1	83.6	84.4	84.9	85.4	86.9	87.6	86.1	83.6	81.9
TWET 27. DEG F (270. DEG K)	500	83.5	85.7	85.5	85.5	84.0	83.0	82.5	83.5	84.0	85.2	87.2	87.2	85.5	82.7	81.2
HACT 0. GM/M3 (***)	630	83.0	86.3	85.8	85.5	84.0	82.5	81.8	82.8	82.8	84.3	86.5	86.8	85.0	82.8	81.0
NFA 2476. RPM (259. RAD/SEC)	800	84.2	85.9	86.4	84.9	84.2	82.4	82.4	82.9	82.7	84.4	85.9	86.9	84.4	82.4	80.4
NFK 2545. RPM (266. RAD/SEC)	1000	84.4	85.2	86.7	84.4	83.9	82.7	81.7	82.4	82.4	83.4	85.4	85.7	82.9	80.7	79.2
NFD 1. RPM (0. RAD/SEC)	1250	87.7	87.4	87.7	85.2	84.4	83.9	82.4	81.9	82.9	82.9	84.4	85.4	83.2	80.7	79.7
	1600	94.4	94.7	94.4	92.7	90.7	89.7	87.2	86.4	86.2	85.9	87.2	90.2	85.7	82.2	81.2
	2000	88.8	88.1	90.3	86.6	85.3	83.1	81.6	82.3	82.3	84.1	85.1	84.8	82.1	79.1	77.6
	2500	91.8	91.0	91.8	88.0	87.0	84.8	82.0	82.5	83.5	85.8	86.0	86.8	83.9	79.2	78.5
	3150	104.5	97.2	97.5	95.5	91.0	87.5	83.5	83.0	84.5	89.2	90.2	89.0	85.1	80.7	79.2
	4000	94.1	95.2	89.7	88.6	87.1	84.2	82.4	82.9	84.0	88.5	89.5	88.0	81.5	79.5	76.8
	5000	97.2	98.3	90.8	91.9	93.2	90.8	89.9	87.9	86.9	88.1	91.6	93.3	86.3	84.2	81.6
	6300	90.2	91.4	96.8	94.1	94.9	93.9	88.7	84.7	87.1	84.4	87.2	88.7	84.9	80.7	80.7
	8000	91.5	92.5	94.3	91.6	89.9	88.0	83.4	81.3	82.3	84.0	85.1	84.6	81.2	77.2	74.6
	10000	88.5	90.0	86.4	89.0	84.7	84.2	80.8	79.0	79.5	83.4	85.0	84.3	78.8	75.8	72.8

OVERALL SPL 106.8 104.5 104.0 102.3 101.3 99.8 97.8 97.4 97.7 99.0 100.6 101.4 99.5 98.4 98.0

ORIGINAL PAGE IS
OF POOR QUALITY

FULL SCALE DATA REDUCTION PROGRAM
Table 5e.

SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)
ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	10.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.
	(0.17)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.79)	
NO EGA	63	79.6	78.6	78.4	78.1	80.6	81.6	83.4	84.4	84.9	85.4	87.4	89.4	91.6	92.4	94.6
RADIAL 150. FT. (46. M)	80	82.1	79.8	80.8	82.1	83.1	83.3	83.8	86.1	86.1	87.3	88.8	90.3	92.8	92.1	93.3
VEHICLE CF6-50	125	86.0	85.3	85.5	84.3	85.5	85.0	85.3	87.0	86.8	87.5	89.3	90.0	91.0	91.5	88.5
CONFIG E2LFCN	160	88.4	86.2	85.9	84.4	85.9	84.9	85.9	86.4	86.4	87.9	88.9	90.2	90.9	90.9	87.7
LOC SITE IVD	200	86.8	87.1	87.1	86.1	84.8	85.1	84.3	85.6	86.3	86.3	88.6	89.3	89.8	89.1	86.8
DATE 12-18-78	250	82.0	84.2	85.2	85.0	84.7	84.5	84.2	86.7	86.2	86.2	87.7	89.0	89.0	88.0	85.7
RUN 150 FT GND	315	82.7	83.7	85.2	85.2	85.7	85.2	85.2	86.2	86.2	87.2	88.0	89.0	88.7	87.5	84.7
RDG X05610	375	84.9	86.6	87.0	87.9	86.9	85.6	85.9	86.6	86.9	87.8	88.9	88.9	88.0	86.0	85.1
BAR 28.2 HG	500	84.5	87.5	87.5	87.2	86.0	85.2	85.5	86.2	86.5	87.2	89.0	88.7	87.7	85.7	84.2
(95166. N/M2)	630	84.3	86.8	87.0	87.0	85.3	84.5	84.3	85.5	85.5	86.3	88.0	88.8	86.8	85.3	83.8
TAMB 31. DEG F	800	85.2	87.2	87.9	87.4	85.7	84.9	84.7	84.9	85.7	86.7	88.2	88.9	87.2	84.9	83.7
(272. DEG K)	1000	81.9	86.0	87.7	86.7	86.0	84.5	84.4	84.9	85.4	85.9	87.7	87.7	85.4	83.4	82.2
TWET 27. DEG F	1250	87.4	88.4	89.1	87.4	86.6	86.1	85.9	85.4	85.6	85.4	86.6	87.6	85.9	83.4	82.9
(270. DEG K)	1600	96.1	97.1	96.6	96.6	95.6	92.1	89.6	89.1	89.1	89.6	90.1	91.6	87.6	85.1	84.4
HACT 0. GM/M3	2000	91.3	91.8	92.8	91.0	90.0	87.3	86.3	86.8	86.3	87.8	88.0	88.0	86.0	82.5	81.5
(***** KG/M3)	2500	90.4	90.2	93.2	89.9	89.2	86.4	85.4	85.9	86.9	87.9	88.2	88.4	86.3	81.9	81.2
NFA 2694. RPM	3150	96.9	95.4	95.1	94.1	91.1	87.9	86.1	85.6	86.9	90.6	93.6	91.1	85.8	82.1	80.9
(282. RAD/SEC)	4000	94.5	94.6	90.1	88.7	86.5	84.3	84.0	85.5	85.6	89.8	90.8	88.9	83.3	81.1	78.9
NFK 2771. RPM	5000	97.0	97.4	91.8	91.4	91.8	90.9	91.2	90.7	91.7	93.4	95.4	96.3	90.1	87.5	85.9
(290. RAD/SEC)	6300	92.0	92.0	98.4	94.9	94.5	93.5	90.3	88.5	92.5	90.0	92.6	93.1	89.8	85.0	84.0
NFD 1. RPM	8000	91.7	92.9	94.8	93.1	90.9	89.2	86.6	85.2	86.5	88.0	89.5	88.6	86.2	81.9	79.5
(0. RAD/SEC)	10000	89.1	90.3	87.5	89.4	85.3	85.1	84.2	83.1	84.4	87.8	88.9	87.6	81.6	79.4	76.2

OVERALL SPL 104.4 104.7 104.9 103.6 102.6 101.0 100.0 100.2 101.0 102.0 103.6 104.0 102.7 101.9 102.0

FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 2 DAY 9 HR. 15.8

Table 5f. SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

233

		10.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.
	FREQ.	(0.17)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.79)
NO EGA	50	80.9	79.6	81.1	81.9	82.1	84.6	85.9	87.1	88.4	89.9	92.4	95.1	98.9	102.9	106.4
	63	83.9	82.6	82.6	81.9	84.1	85.1	86.9	88.6	89.4	90.9	93.1	96.1	99.4	102.1	105.6
RADIAL 150. FT.	80	86.8	84.3	85.1	85.6	86.8	87.3	87.6	90.3	90.6	92.3	94.3	96.8	100.6	101.6	104.1
(46. M)	100	88.1	86.9	87.9	87.1	88.1	88.6	89.1	90.4	90.9	92.9	94.6	96.9	100.4	101.1	102.1
VEHICLE CF6-50	125	92.0	90.0	90.5	88.5	89.3	89.5	89.8	91.5	92.0	93.8	95.5	97.8	99.8	101.3	99.0
CONFIG E2LFCN	160	92.7	91.9	92.2	88.7	90.9	90.2	90.9	91.4	92.2	93.4	95.7	97.7	99.9	100.2	97.2
LOC SITE IVD	200	86.6	89.3	90.1	89.1	88.6	90.1	90.6	91.1	92.1	92.6	95.1	97.1	98.6	98.1	95.3
DATE 12-18-78	250	85.2	87.0	88.5	88.5	88.7	89.2	89.5	91.2	91.5	92.5	94.7	96.5	97.0	96.2	93.5
RUN 150 FT GND	315	88.0	89.0	91.2	90.5	90.7	90.2	89.7	91.2	91.7	92.7	94.0	96.0	96.2	95.0	92.0
RDG X05630	400	90.1	91.1	91.9	92.9	92.1	90.6	90.6	91.9	91.9	92.6	94.9	95.9	96.1	93.9	91.6
BAR 28.2 HG	500	89.2	92.7	92.5	92.7	93.5	93.2	91.2	92.5	92.5	92.0	94.2	95.2	94.7	93.0	90.5
(95165 N/M2)	630	87.5	92.0	91.5	92.3	91.3	90.8	91.0	90.3	90.5	91.8	93.8	94.3	93.5	92.0	90.8
TAMB 30. DEG F	800	87.6	92.1	91.6	91.4	90.6	89.9	89.1	90.1	90.9	91.4	93.1	93.9	92.9	90.9	89.4
(272. DEG K)	1000	87.9	90.9	91.4	90.9	91.1	90.1	89.4	90.4	90.9	91.4	92.4	92.9	92.1	89.9	88.1
TWET 27. DEG F	1250	90.6	91.4	93.6	92.1	92.1	92.1	90.9	90.9	91.4	90.9	92.4	92.9	92.4	89.9	88.1
(270. DEG K)	1600	92.3	93.6	94.8	93.3	92.6	92.3	90.6	91.1	92.3	90.8	91.8	92.8	91.8	89.3	87.6
HACT 0. GM/M3	2000	103.2	101.2	103.0	100.0	97.7	96.5	94.5	94.2	95.0	95.5	97.7	95.5	93.2	90.0	88.5
(***** KG/M3)	2500	92.8	93.6	97.1	95.3	95.1	93.6	91.8	91.8	92.6	92.6	93.1	92.3	92.0	88.1	87.1
NFA 3133. RPM	3150	94.0	94.7	95.2	95.5	93.2	92.0	90.5	90.2	91.5	94.0	94.0	90.7	89.1	86.0	84.5
(328. RAD/SEC)	4000	100.8	99.2	98.4	94.8	92.3	90.4	90.1	90.3	91.7	95.7	98.9	96.0	89.4	87.4	83.7
NFK 3224. RPM	5000	95.8	95.2	93.4	89.5	90.6	90.5	91.8	92.8	93.8	91.7	93.0	92.9	87.7	86.6	84.8
(338. RAD/SEC)	6300	92.4	91.8	98.0	93.5	94.6	94.3	91.9	93.1	96.3	93.9	96.4	95.2	92.9	87.6	87.4
NFD 1. RPM	8000	93.9	93.1	94.9	93.0	91.5	90.3	88.5	91.6	93.4	94.9	95.7	93.2	90.3	86.8	83.9
(0. RAD/SEC)	10000	89.6	90.3	87.8	89.6	86.0	86.3	85.7	87.1	88.6	91.0	92.6	90.6	86.9	84.1	80.7

OVERALL SPL 107.7 107.1 108.3 106.3 105.6 104.9 104.1 105.0 105.9 106.6 108.5 109.0 110.0 110.6 111.8

WELL PAGE PRINTING SYSTEM FILED-V

Table 5g. SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)
 ANGLES FROM INLET IN DEGREES (AND RADIANS)

		10.	30.	45.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.
	FREQ.	(0.17)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.79)
NO EGA	50	82.9	81.9	83.1	83.9	84.6	86.4	87.6	88.9	90.6	92.6	94.4	97.1	102.4	107.4	111.1
	63	86.4	84.6	84.9	83.9	86.6	87.4	89.1	90.6	91.4	93.4	95.9	99.1	103.4	106.6	111.1
RADIAL 150. FT. (46. M)	80	88.5	86.1	87.3	88.3	88.8	89.3	90.1	92.6	93.1	95.3	97.3	100.6	104.8	106.6	109.8
VEHICLE CF6-50	125	94.0	92.8	93.3	90.8	91.5	91.8	91.8	94.0	94.5	96.8	99.0	102.3	104.0	107.0	104.8
CONFIG E2LFCN	160	92.2	92.7	92.7	90.9	92.4	92.7	93.2	94.4	95.7	96.4	99.2	102.2	104.2	105.4	102.7
LOC SITE TVD	200	88.3	90.3	92.8	92.3	91.6	93.1	93.1	93.8	95.1	95.6	98.8	101.1	103.1	102.8	100.8
DATE 12-18-78	250	88.0	89.7	92.0	92.0	91.7	92.2	92.2	94.0	94.2	95.7	97.7	100.0	101.5	101.0	98.0
RUN 150 FT GND	315	91.0	92.2	94.2	94.0	95.0	92.7	92.7	93.7	94.5	95.7	97.5	99.5	100.0	99.0	96.0
RDG X05650	400	91.4	93.4	93.9	95.1	94.9	92.9	92.9	93.9	94.6	96.1	98.1	99.4	99.9	97.6	95.1
BAR 28.2 HG (95166. N/M2)	500	90.5	94.0	95.0	95.2	94.2	93.0	92.7	93.7	94.5	95.5	97.2	98.0	98.2	96.0	94.0
TAMB 30. DEG F (272. DEG K)	630	89.5	93.0	94.5	94.3	93.3	92.0	92.3	92.5	93.0	94.3	96.0	97.3	96.8	95.3	92.8
	800	90.7	93.4	94.7	94.4	93.4	92.4	92.2	93.2	93.7	94.4	95.9	96.9	96.7	94.2	92.2
	1000	89.2	92.4	94.4	92.9	93.2	92.9	92.2	92.7	93.4	93.7	95.9	95.7	95.2	92.9	91.4
	1250	88.7	92.2	94.9	94.7	93.9	93.9	93.2	92.9	93.4	93.7	95.4	95.4	95.7	92.7	91.4
	1600	91.9	94.4	97.2	95.7	95.7	94.7	93.4	93.9	94.7	93.7	94.4	95.4	95.2	92.7	91.2
HACT 0. GM/M3 (***** KG/M3)	2000	100.1	99.6	102.6	100.1	98.4	97.1	95.9	96.4	96.1	97.4	98.9	96.6	95.6	91.9	90.9
	2500	95.5	97.5	100.3	98.3	98.5	96.5	96.0	95.3	95.8	96.0	96.5	96.3	95.2	91.3	90.0
NFA 3363. RPM (352. RAD/SEC)	3150	93.5	95.5	97.0	96.2	95.5	93.7	92.7	92.7	93.5	95.7	95.5	92.7	91.9	89.5	87.7
	4000	97.4	97.7	94.0	93.4	91.6	91.0	91.4	91.9	93.0	96.2	96.2	93.8	89.7	89.3	85.5
NFK 3461. RPM (362. RAD/SEC)	5000	94.7	95.1	89.3	89.4	91.2	91.6	94.4	94.4	93.9	92.6	93.6	94.3	90.8	90.2	86.9
	6300	89.4	90.8	96.0	92.5	93.9	93.8	92.1	93.4	96.8	94.9	95.7	94.7	92.9	89.9	87.4
NFD 1. RPM (0. RAD/SEC)	8000	89.4	90.6	93.0	91.0	90.1	88.9	88.1	88.4	91.2	92.9	93.2	91.5	90.4	89.1	83.7
	10000	86.1	88.3	85.5	88.1	85.2	85.8	85.9	87.6	83.6	92.0	92.3	90.6	87.1	88.1	81.4

OVERALL SPL 106.4 107.4 109.0 107.7 107.3 106.5 106.3 107.0 107.8 108.9 110.5 112.0 113.9 115.4 117.0

ORIGINAL PAGE IS
 OF POOR QUALITY

FULL SCALE DATA REDUCTION PROGRAM

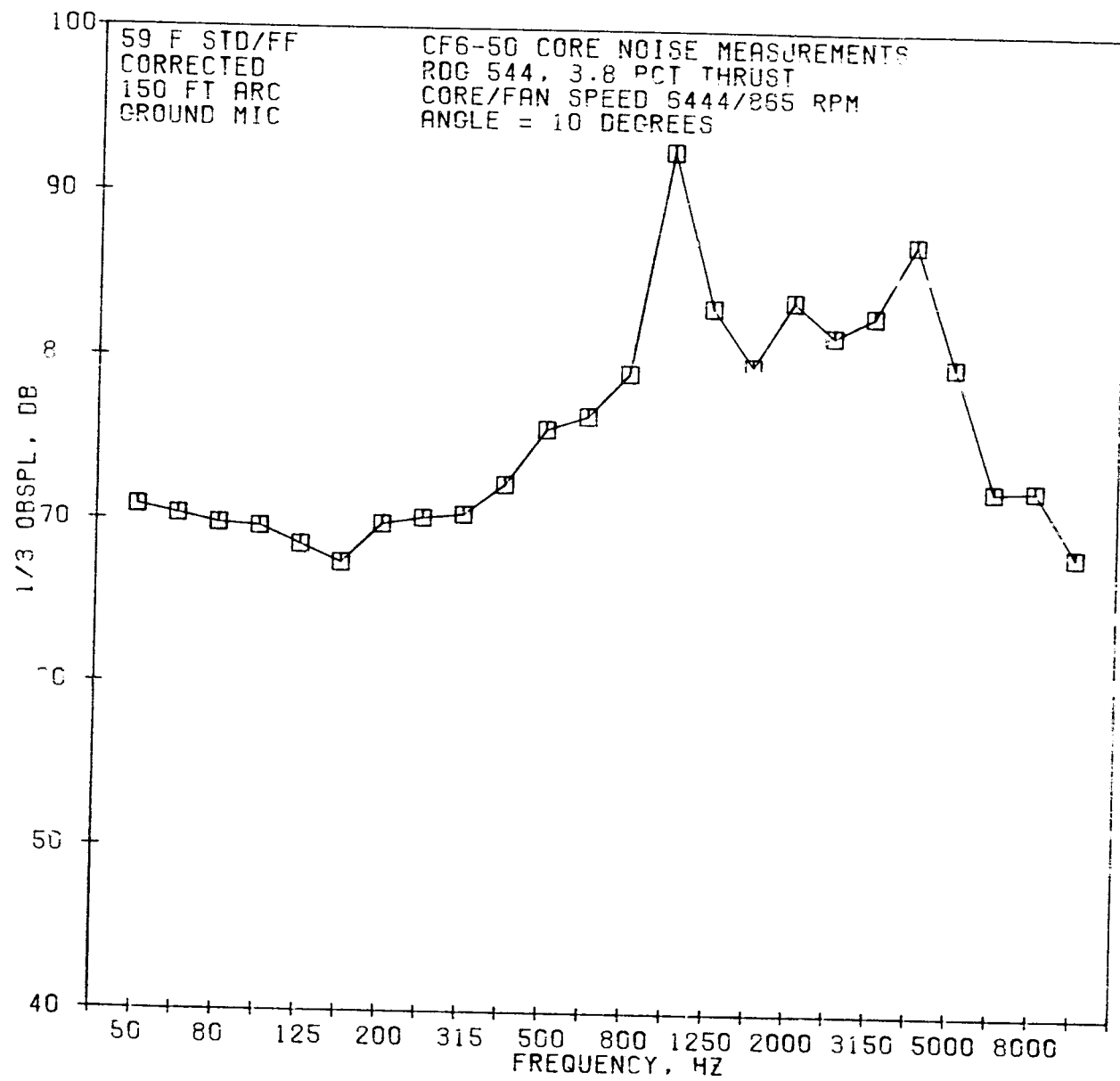
PROC. DATE - MONTH 2 DAY 9 HR. 15.8

Table 5h. SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

		10.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.
		FREQ. (0.17)	(0.52)	(0.70)	(0.87)	(1.05)	(1.22)	(1.40)	(1.57)	(1.75)	(1.92)	(2.09)	(2.27)	(2.44)	(2.62)	(2.79)
NO EGA	50	84.4	83.1	84.1	85.4	86.4	88.4	89.1	90.6	91.9	94.4	96.9	100.6	106.4	111.9	115.1
	63	88.6	86.9	86.9	85.9	88.6	90.1	91.4	92.4	93.6	95.9	98.1	102.4	107.4	110.9	114.9
RADIAL 150. FT. (46. M)	80	91.6	88.3	89.6	89.6	90.6	91.3	91.8	94.8	95.1	97.1	100.1	103.8	109.1	111.3	114.3
	100	93.6	91.4	92.4	90.9	91.6	92.4	93.4	94.6	95.1	98.1	100.4	104.9	110.4	111.1	112.4
VEHICLE CF6-50	125	95.3	94.3	95.3	92.8	93.3	94.0	94.8	96.0	97.8	99.8	102.3	105.5	110.3	112.5	110.3
CONFIG E2LFCN	160	91.2	92.9	93.4	92.7	93.9	94.2	95.4	96.7	97.2	99.4	102.2	106.2	109.4	111.4	107.4
LOC SITE IVD	200	89.6	91.6	93.8	93.6	94.1	94.8	95.6	96.1	97.6	99.1	102.3	105.3	108.6	108.8	106.3
DATE 12-18-78	250	91.0	92.5	93.7	94.2	94.0	94.5	94.5	96.5	97.0	98.7	102.0	104.2	107.0	106.5	104.0
RUN 150 FT GND	315	93.0	93.7	94.5	94.5	94.0	95.0	95.0	96.2	97.2	99.0	101.2	103.7	105.0	104.2	100.7
RDG X05670	400	93.1	95.4	95.6	95.9	95.9	95.6	95.1	96.4	97.6	99.1	101.4	103.4	104.1	102.1	98.9
BAR 28.2 HG	500	90.7	94.2	95.7	96.2	95.2	94.5	94.7	96.2	97.5	98.5	100.5	102.2	102.5	100.2	96.7
(95166. N/M2)	630	90.3	94.0	96.0	96.0	94.3	93.8	94.3	95.5	96.0	97.3	99.8	100.8	100.5	98.3	95.0
TAMB 30. DEG F	800	90.9	94.9	95.4	95.7	95.2	94.2	94.4	95.4	95.9	97.2	99.4	99.9	100.2	97.2	94.9
(272. DEG K)	1000	90.4	93.7	95.4	94.9	95.7	94.4	94.9	95.9	95.9	96.7	98.7	98.4	98.2	95.2	93.4
TWET 26. DEG F	1250	90.9	94.4	96.2	95.4	95.7	95.4	95.7	95.7	96.2	96.4	97.9	98.9	98.4	95.7	93.9
(270. DEG K)	1600	91.9	94.9	98.2	97.2	96.9	96.4	96.4	96.4	97.7	96.4	97.4	98.2	97.9	95.2	93.4
HACT 0. GM/M3	2000	94.9	96.9	98.9	98.1	98.4	97.1	96.6	97.1	97.6	98.1	98.9	98.4	97.9	94.4	92.6
(***** KG/M3)	2500	97.6	99.1	101.3	99.3	100.1	98.3	98.6	99.3	99.8	100.3	101.1	99.8	98.0	94.8	93.6
NFA 3599. RPM	3150	93.0	94.8	96.3	96.8	96.5	95.5	95.5	95.8	96.5	98.5	98.3	95.5	94.7	92.5	89.8
(377. RAD/SEC)	4000	92.7	95.0	92.0	92.4	92.2	92.0	94.2	95.4	94.6	97.5	97.5	95.8	92.5	92.3	87.6
NFK 3703. RPM	5000	93.0	94.9	87.8	89.7	92.5	93.4	96.7	97.7	96.7	96.1	97.4	97.8	93.3	94.0	89.4
(388. RAD/SEC)	6300	86.7	90.1	94.1	92.3	94.7	95.1	94.9	96.9	99.6	97.2	97.0	97.5	94.7	94.7	89.9
NFD 1. RPM	8000	85.9	90.1	91.2	91.5	89.8	90.4	90.8	92.7	94.4	95.7	95.7	96.8	92.9	96.1	86.0
(0. RAD/SEC)	10000	84.0	88.5	83.9	88.8	84.9	87.7	88.6	90.3	91.3	93.7	94.5	96.3	89.0	96.0	83.6

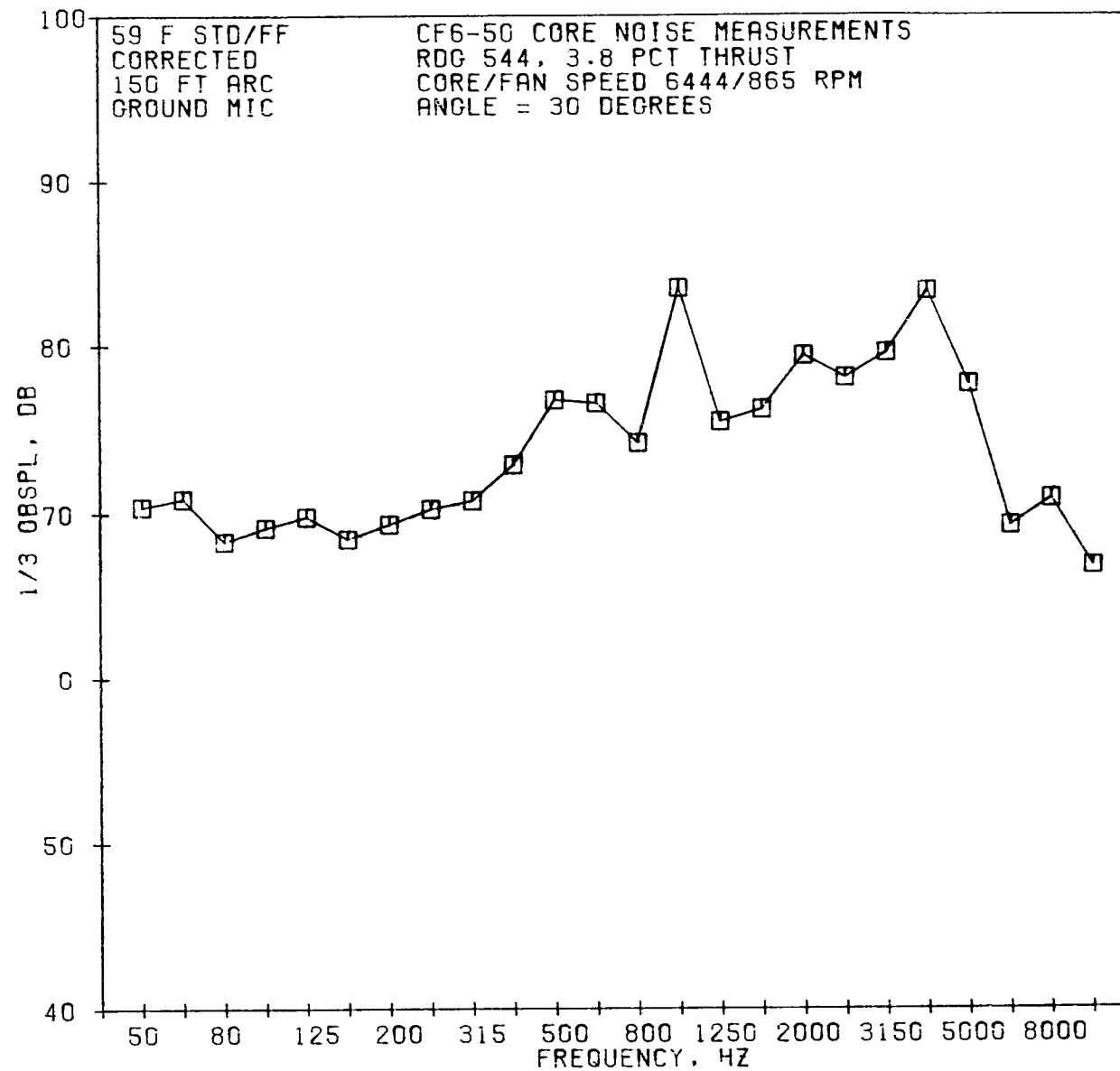
OVERALL SPL 105.9 107.6 108.9 108.3 108.5 108.1 108.6 109.7 110.5 111.6 113.5 115.7 118.7 120.3 121.3



235

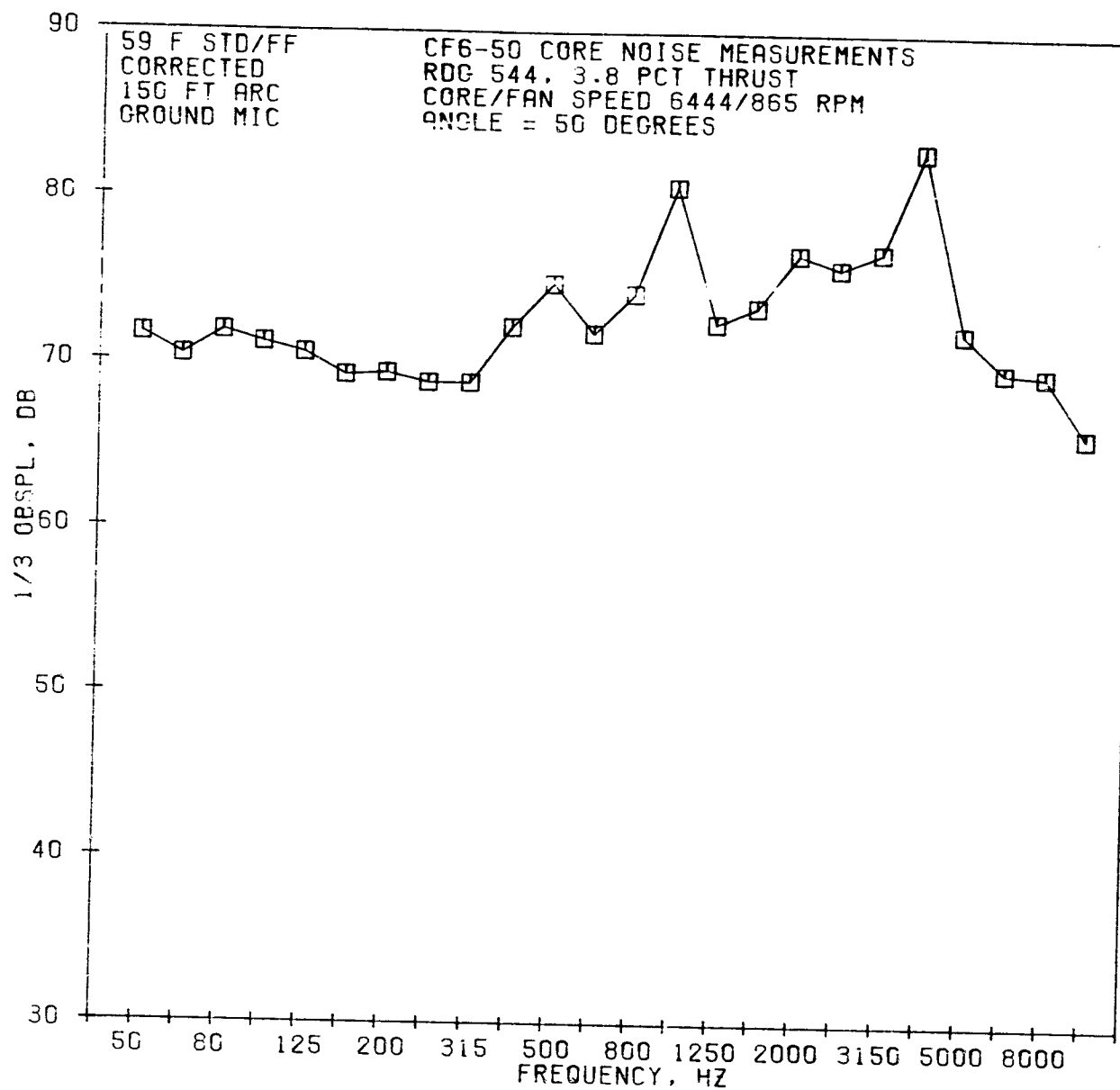
02/17/79
20134-001

79 GILBERT J



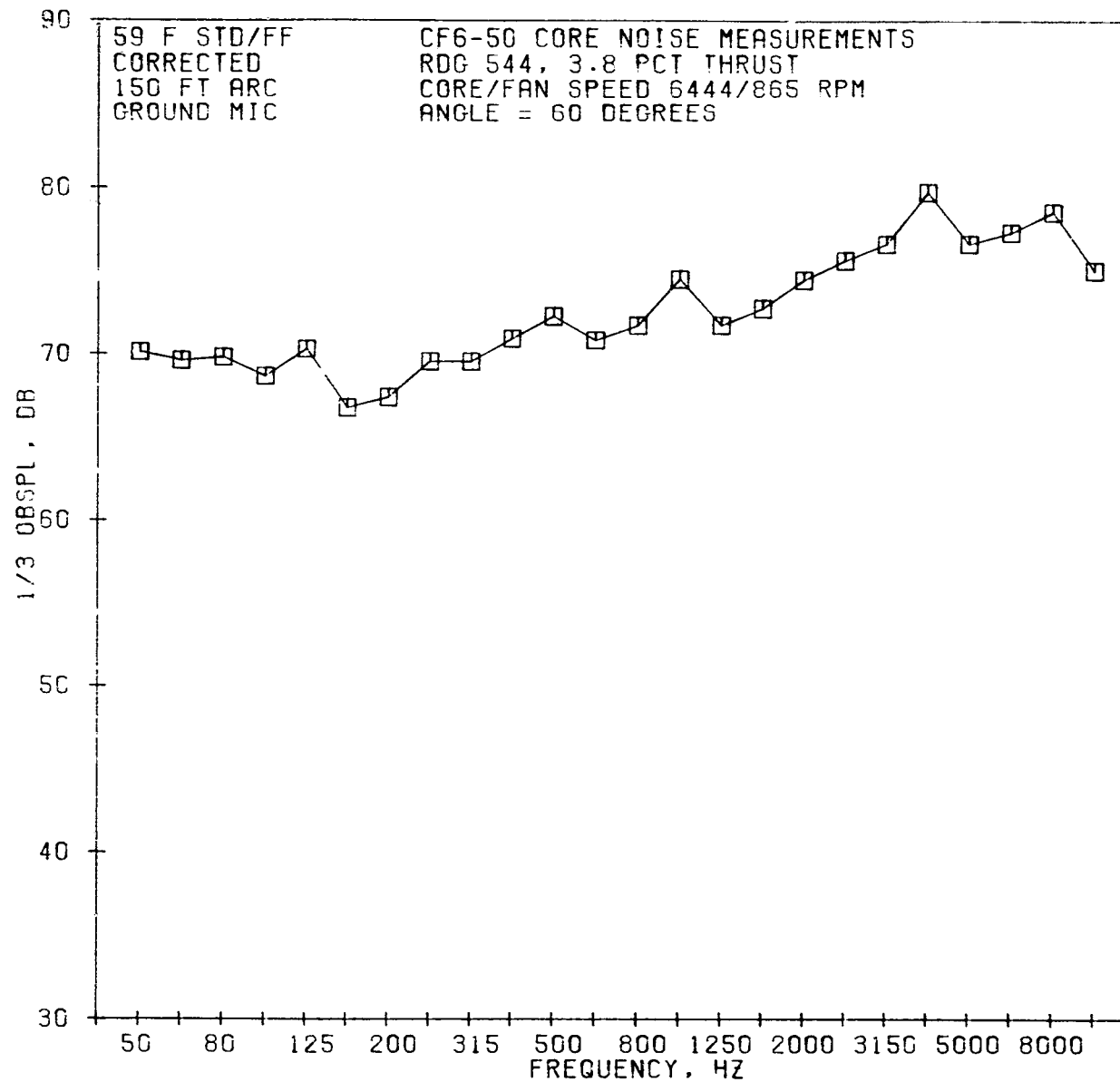
02/17/79
2G134-001

79 GILBERT J



02/17/79
2G134-001

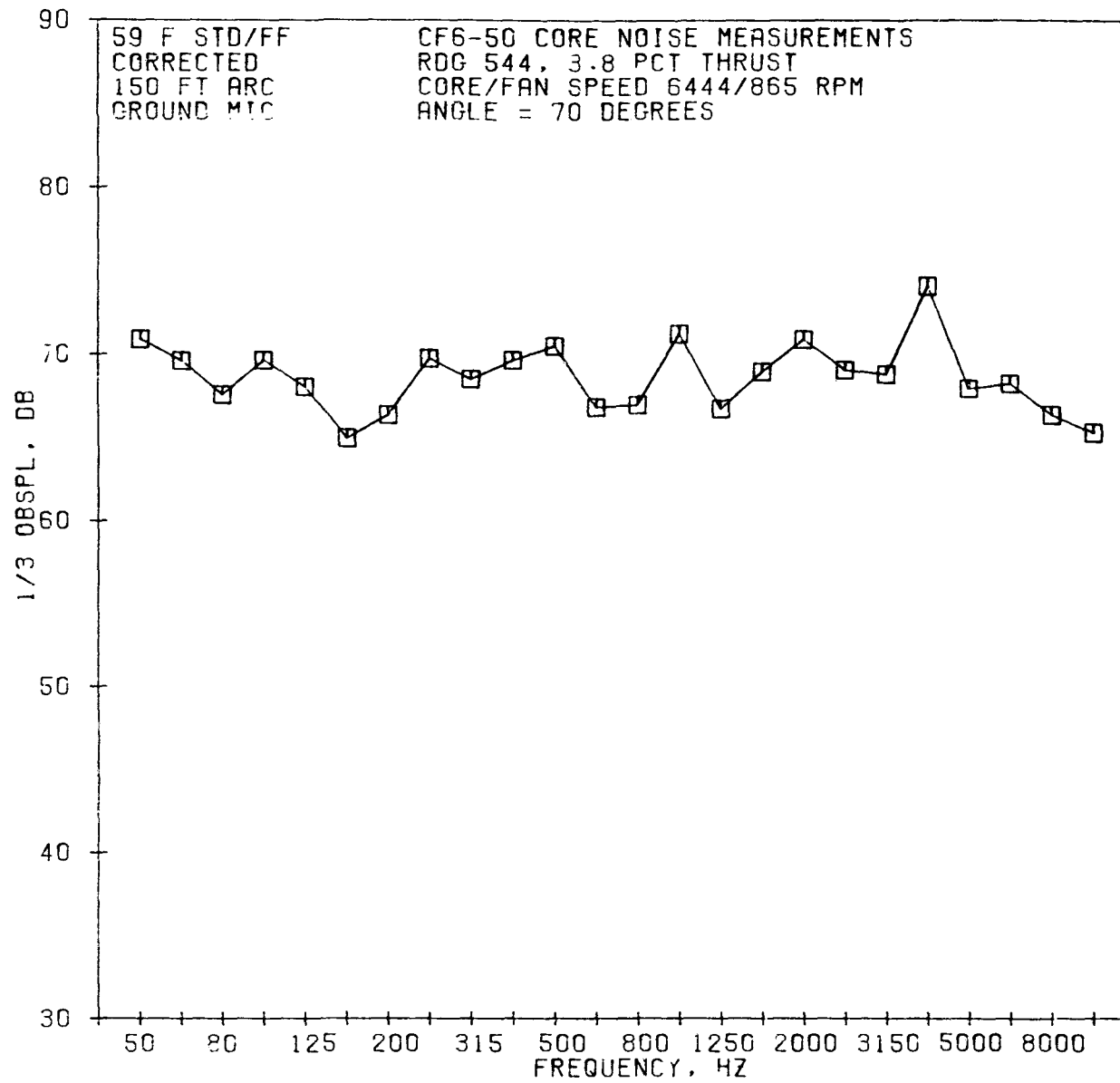
79 GILBERT J

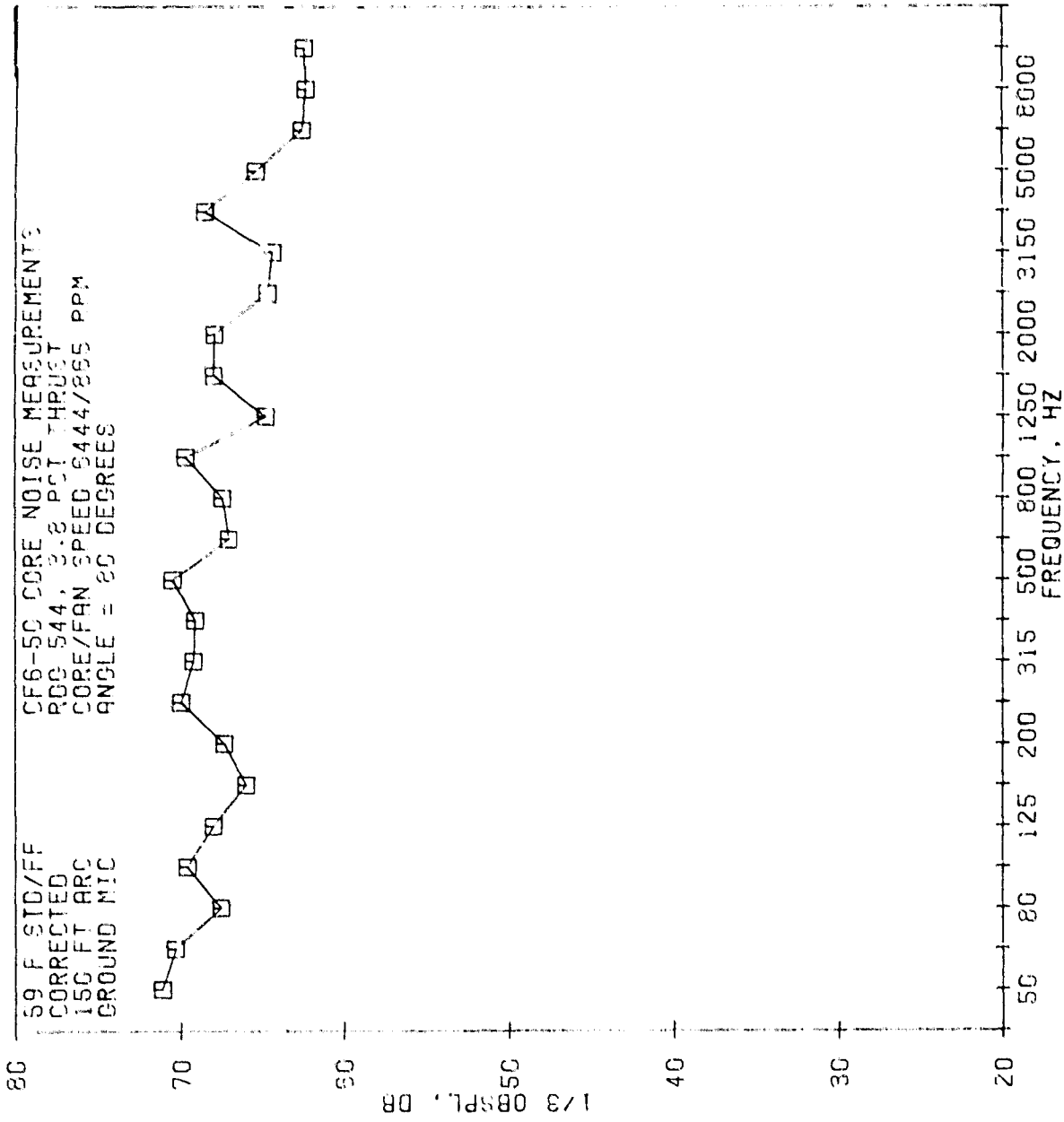


239

02/17/79
2G134-001

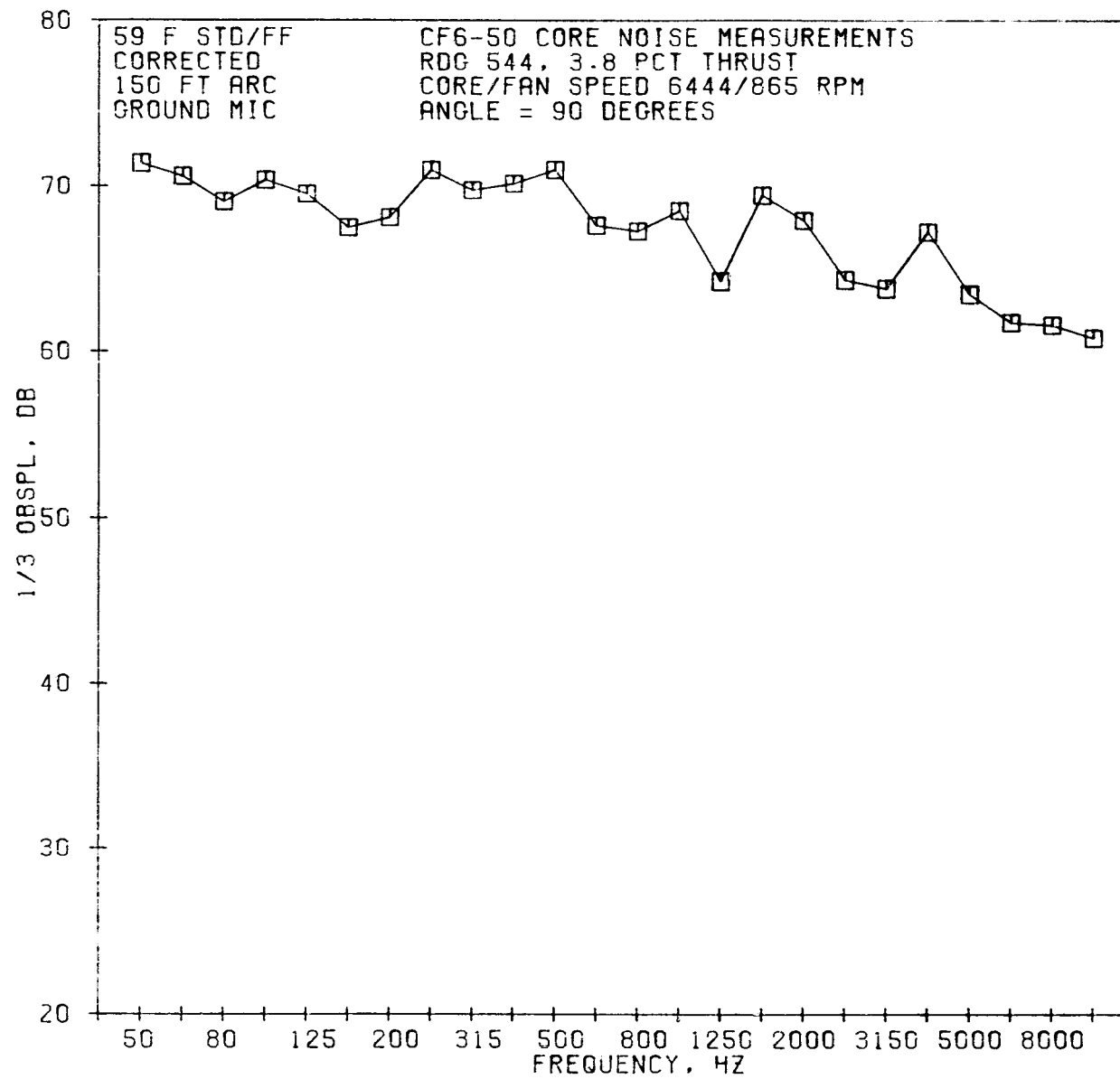
79 GILBERT J





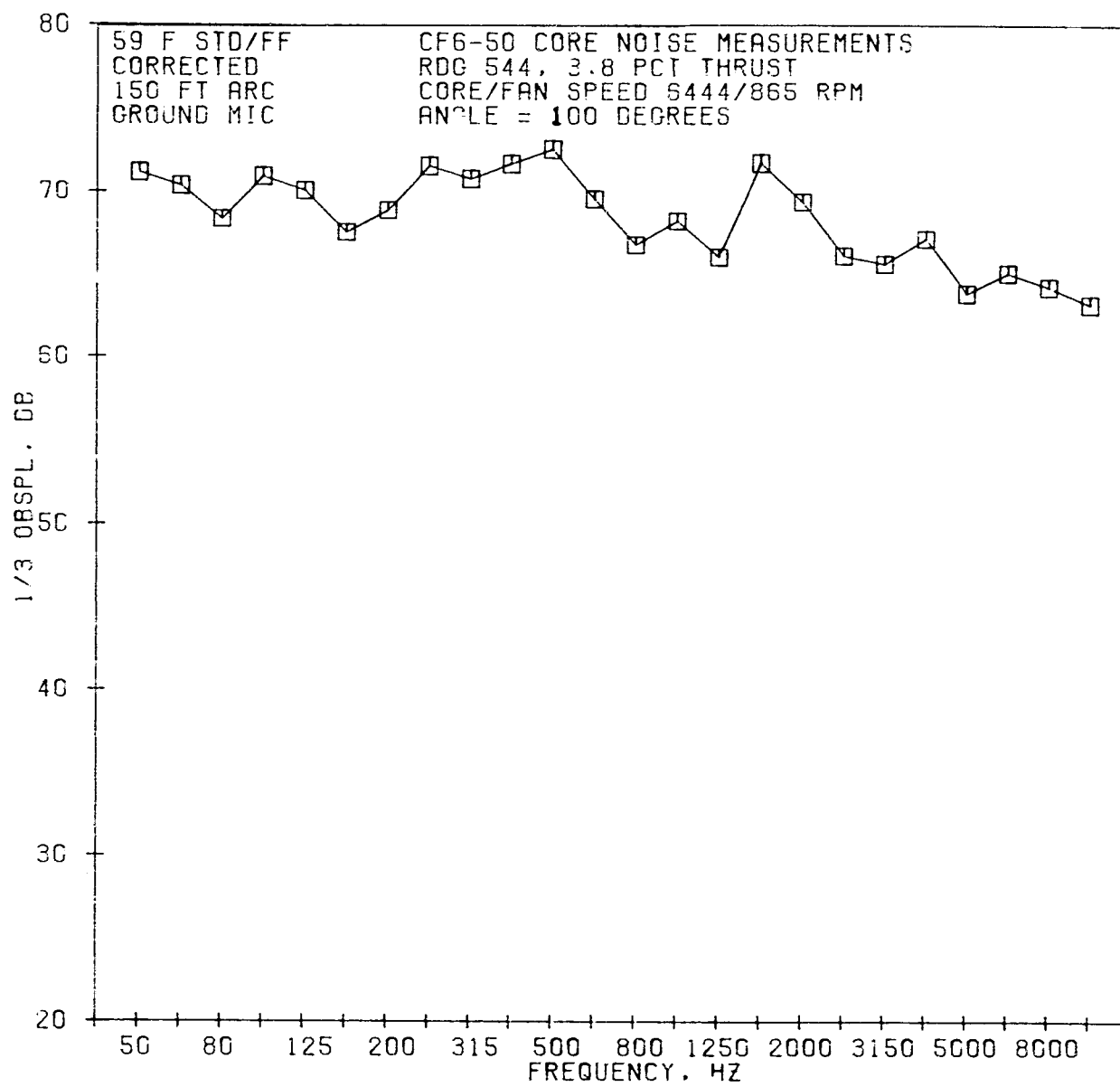
02/17/79
29124-001

79 GILBERT



02/17/79
2G134-001

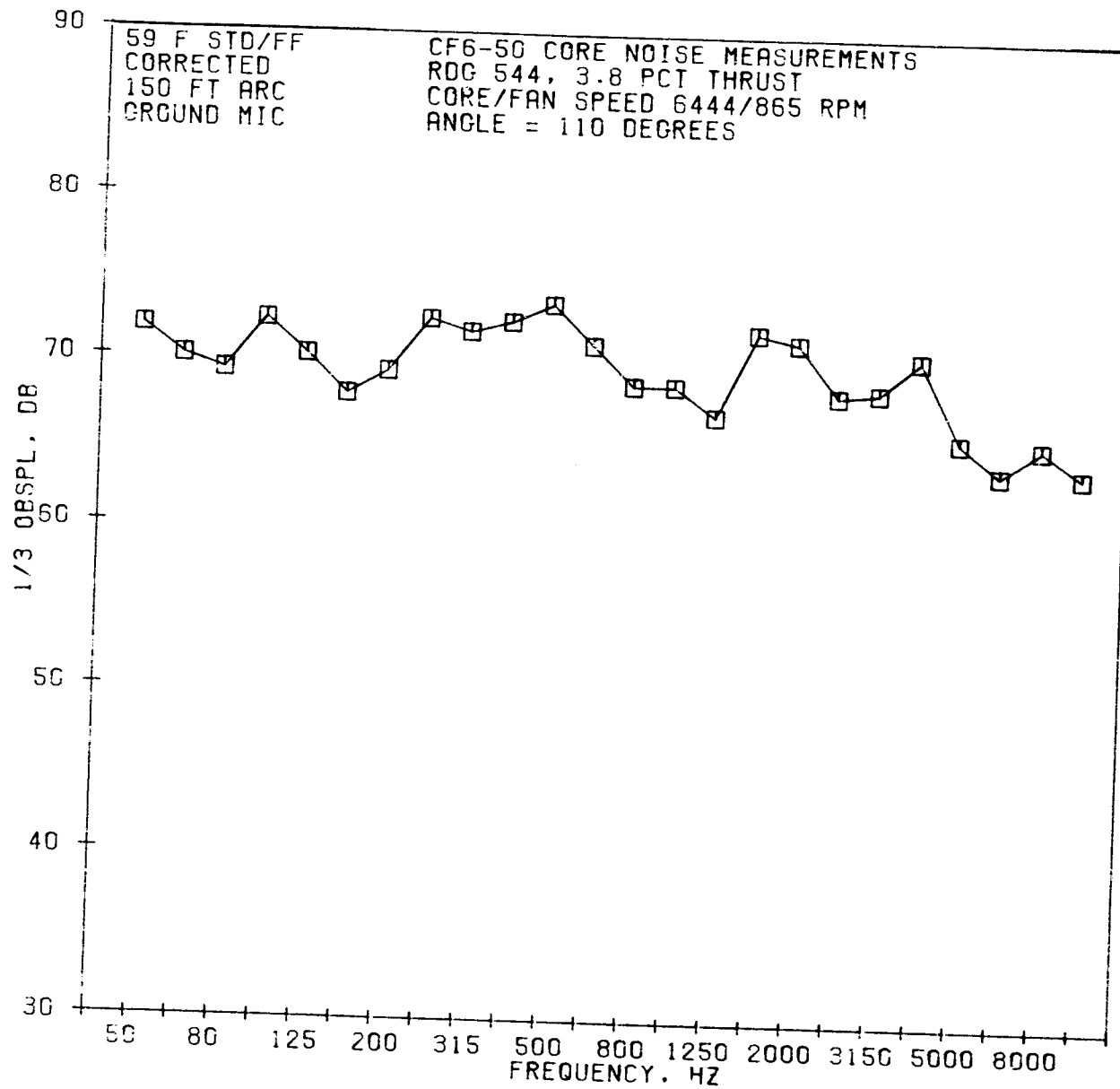
79 GILBERT J



243

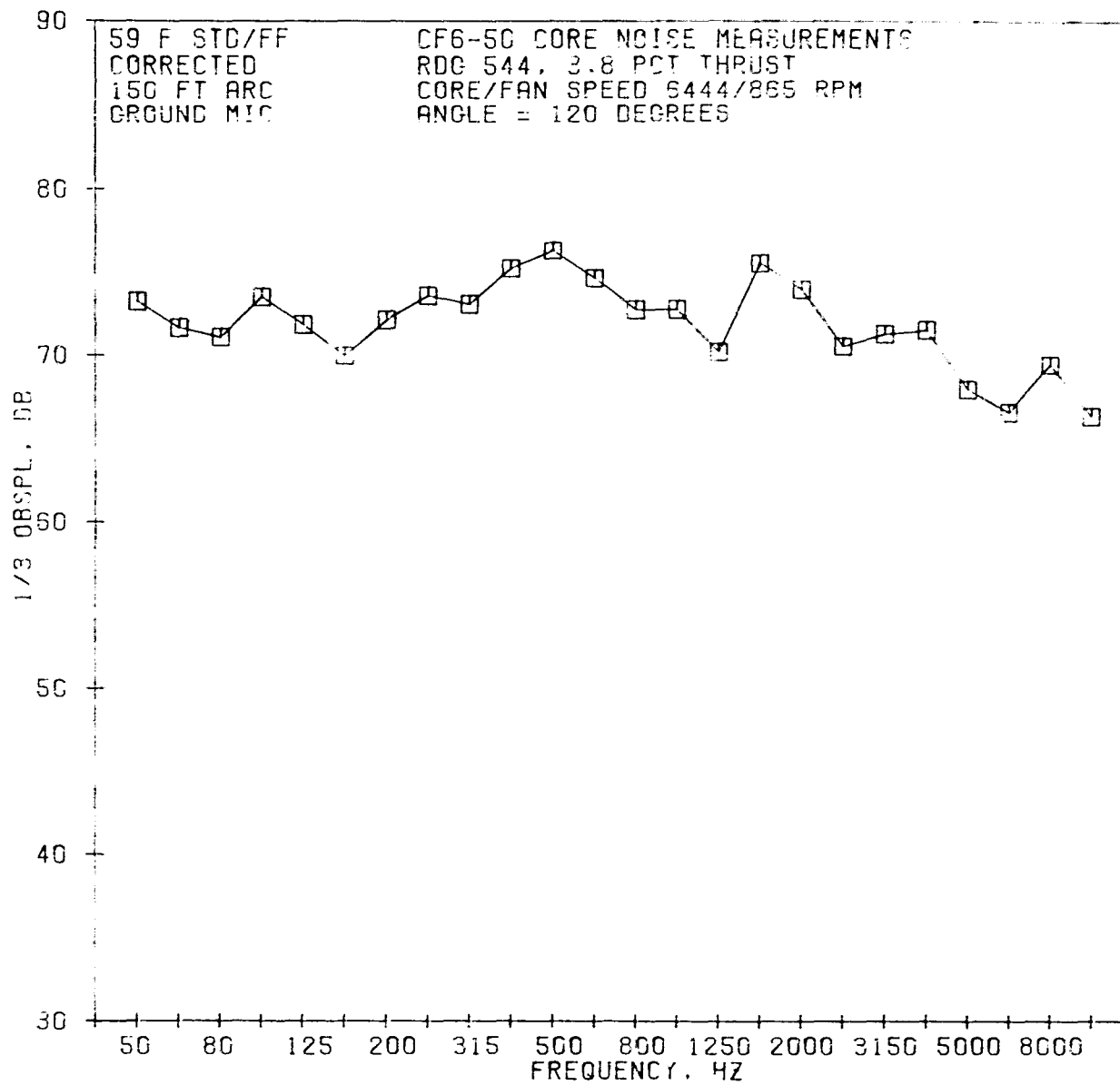
02/17/79
2G134-001

79 GILBERT J



02/17/79
20134-001

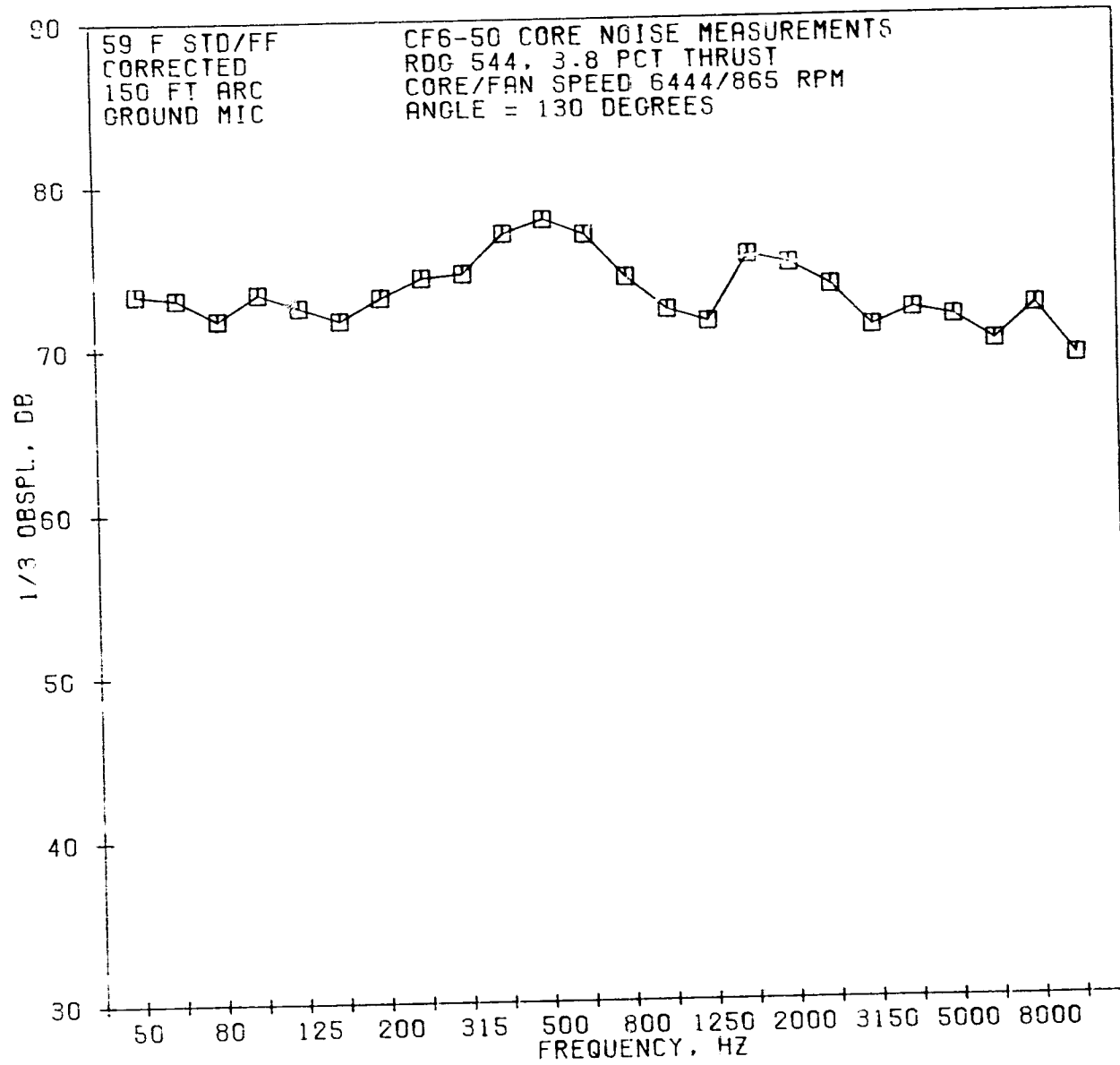
79 GILBERT J



245

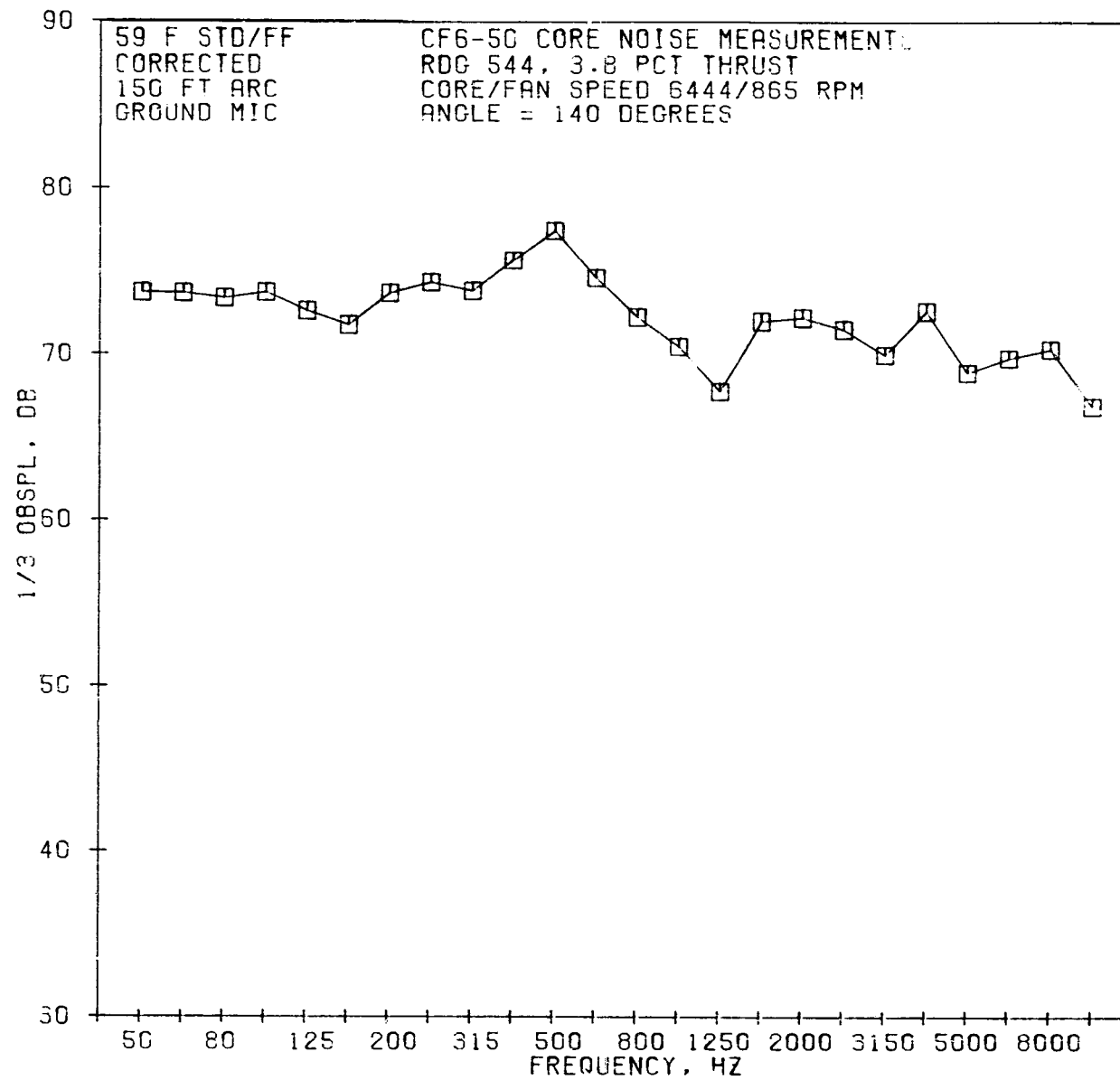
02/17/79
20134-001

79 GILBERT J



02/17/79
2C134-001

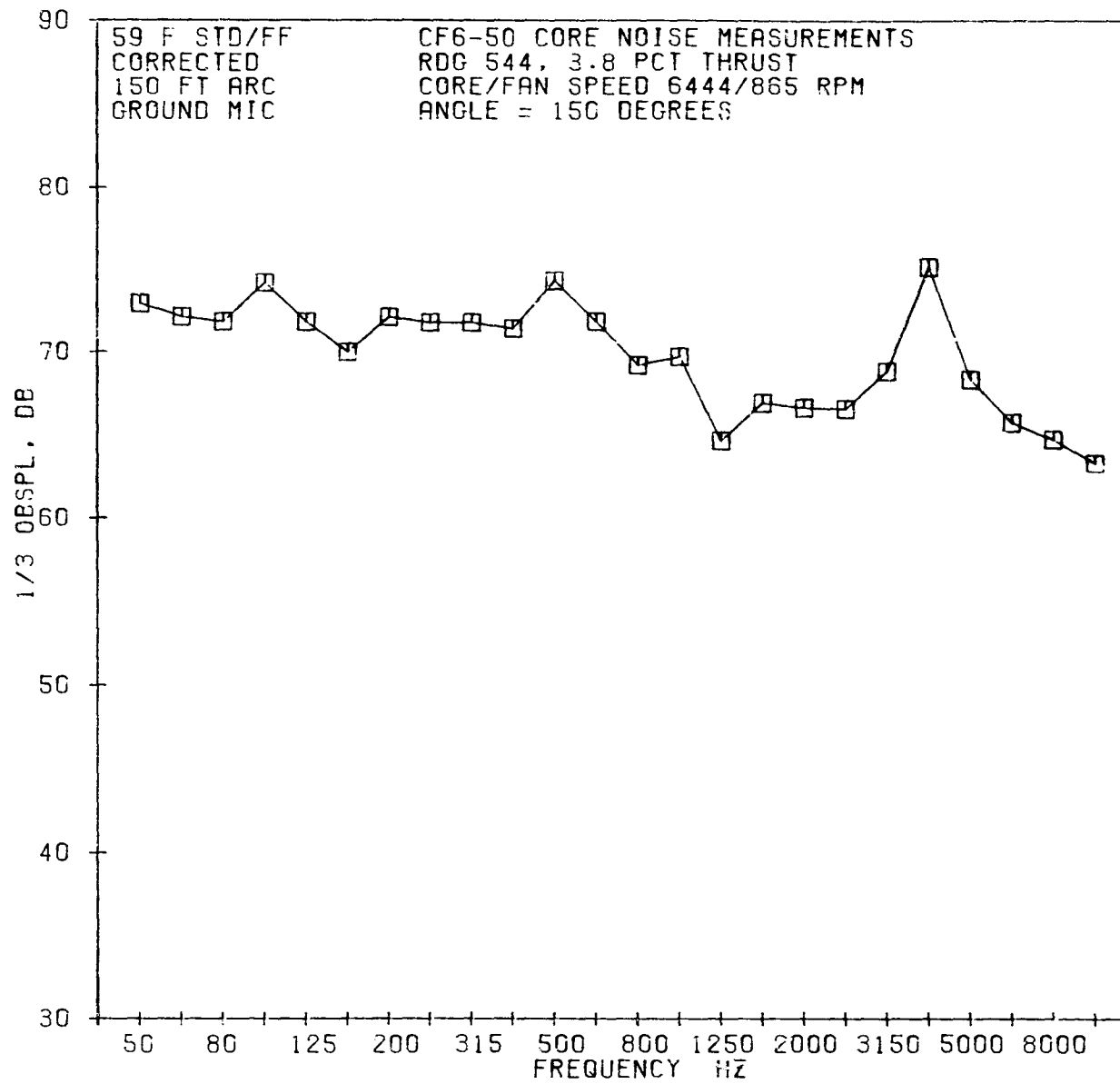
79 GILBERT J



247

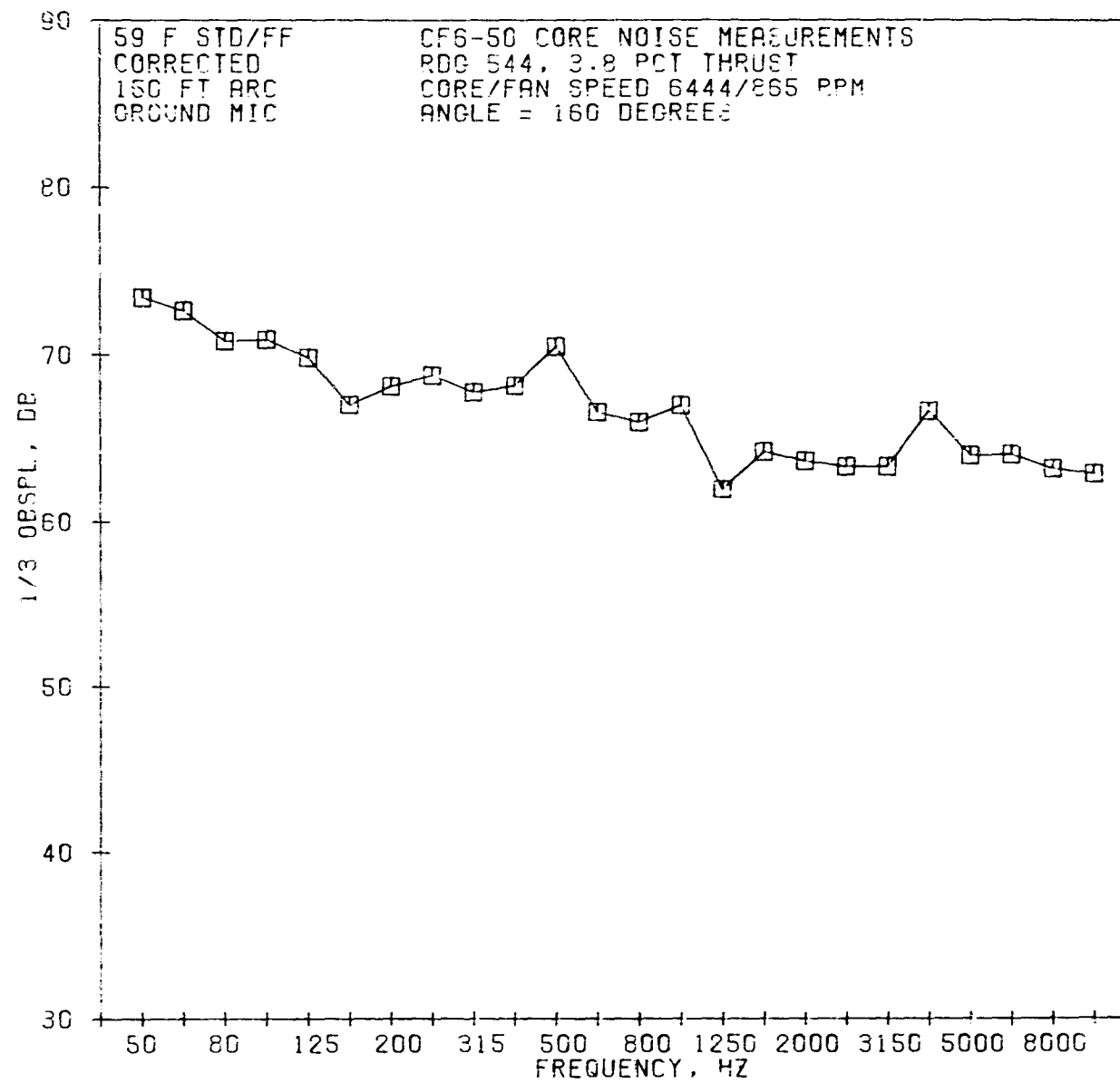
02/17/79
2G134-001

79 GILBERT J



02/17/79
2G134-001

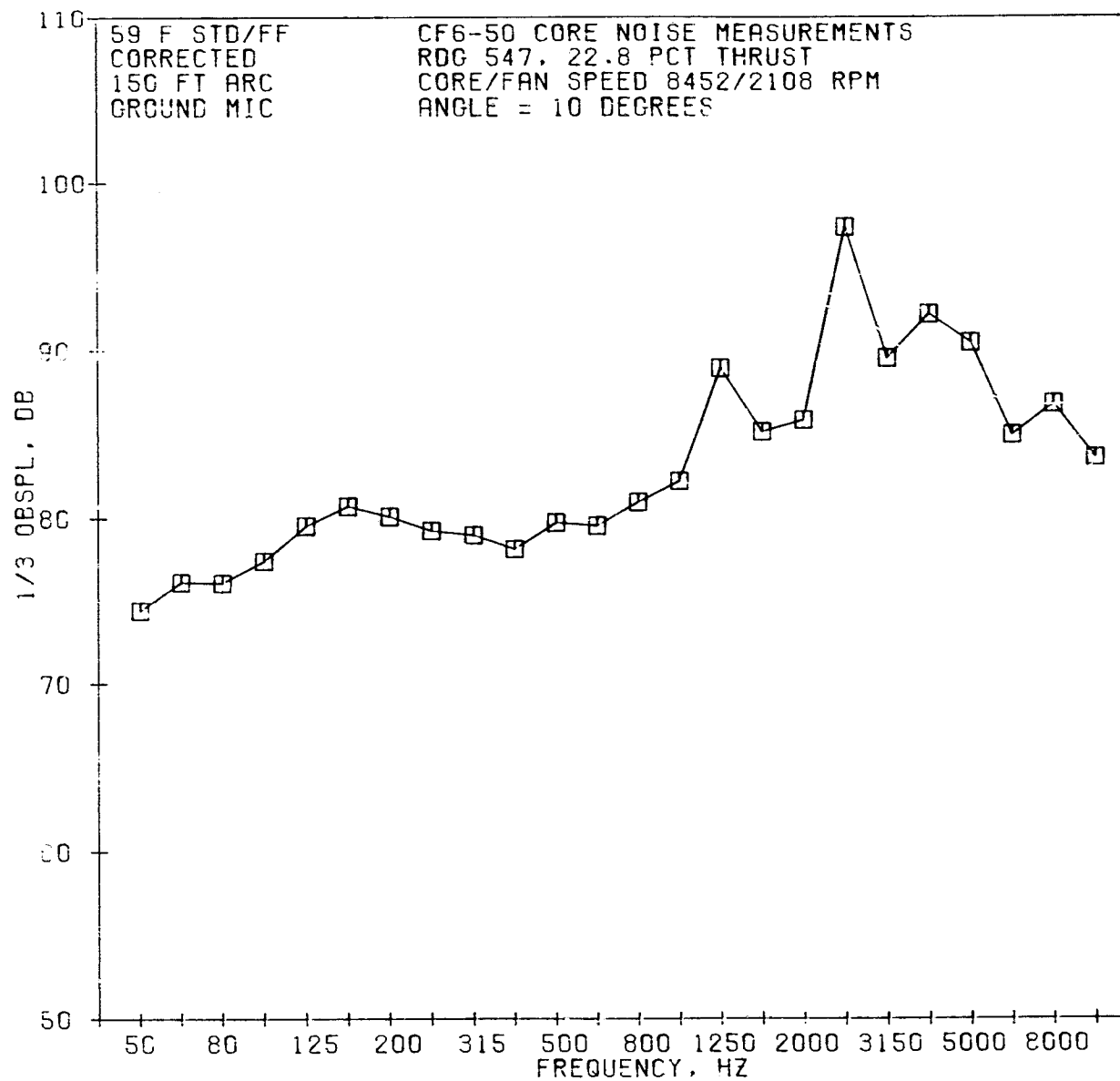
79 GILBERT J

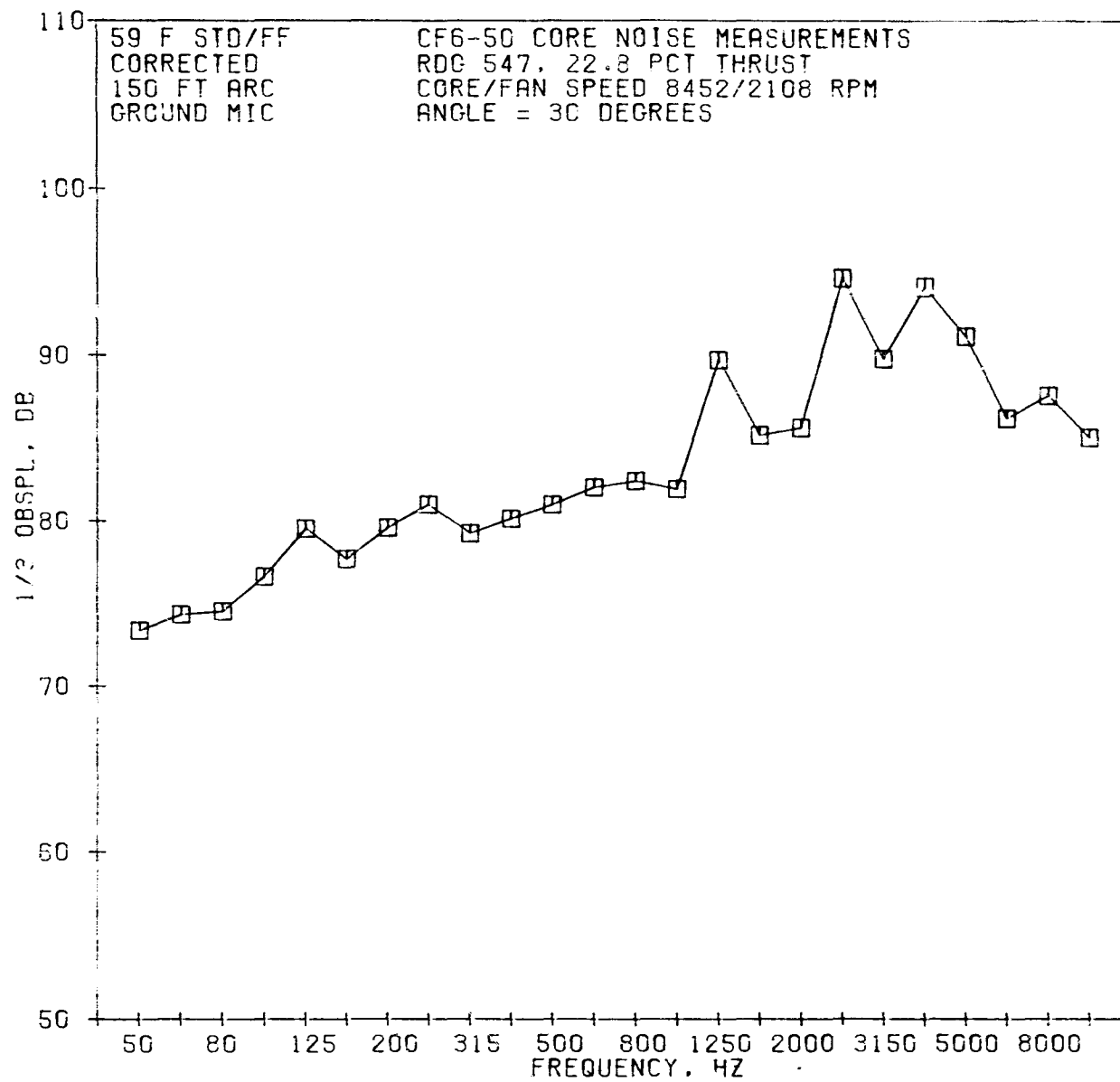


249

G2/17/79
2G134-001

79 GILBERT J

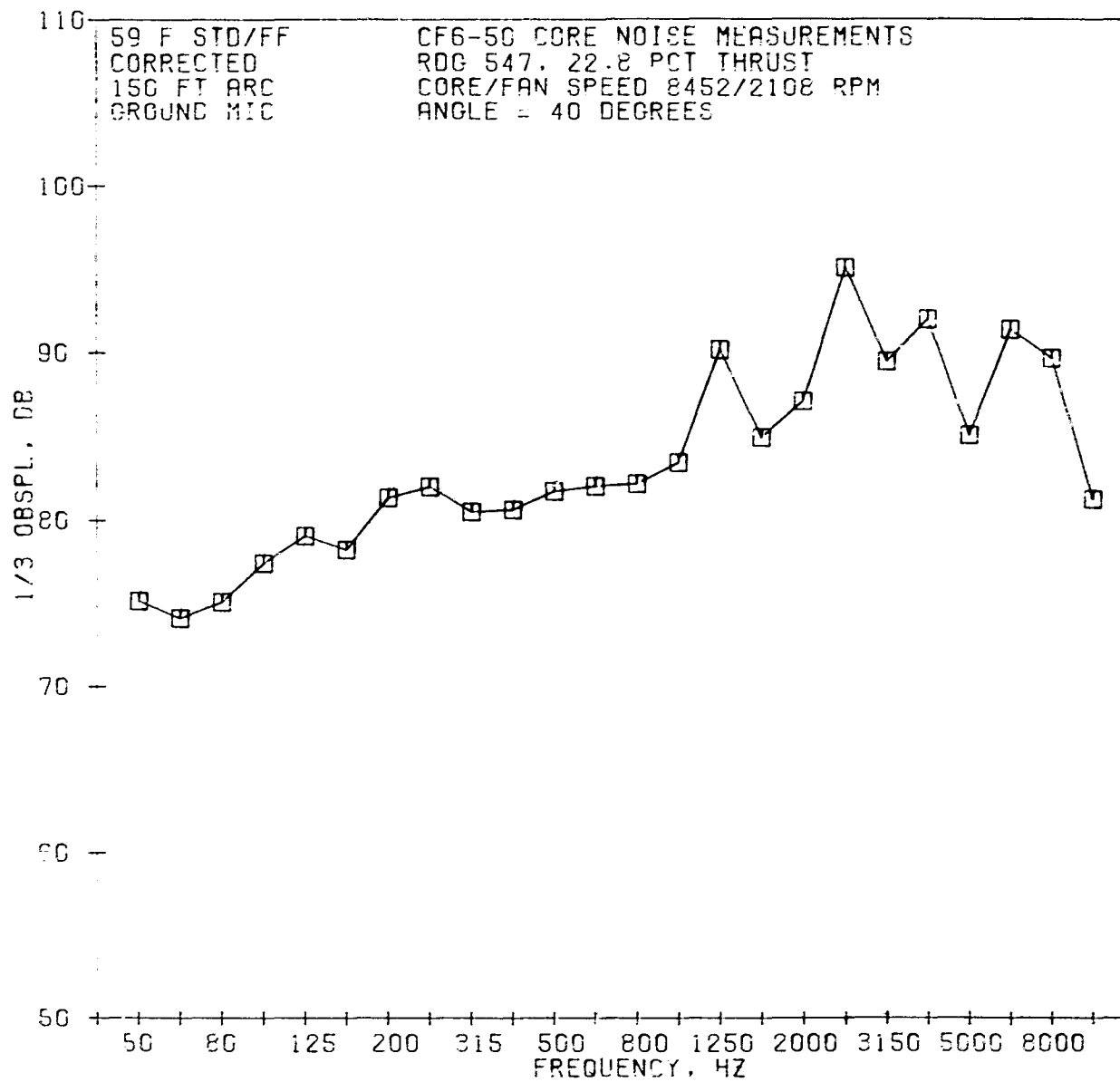




251

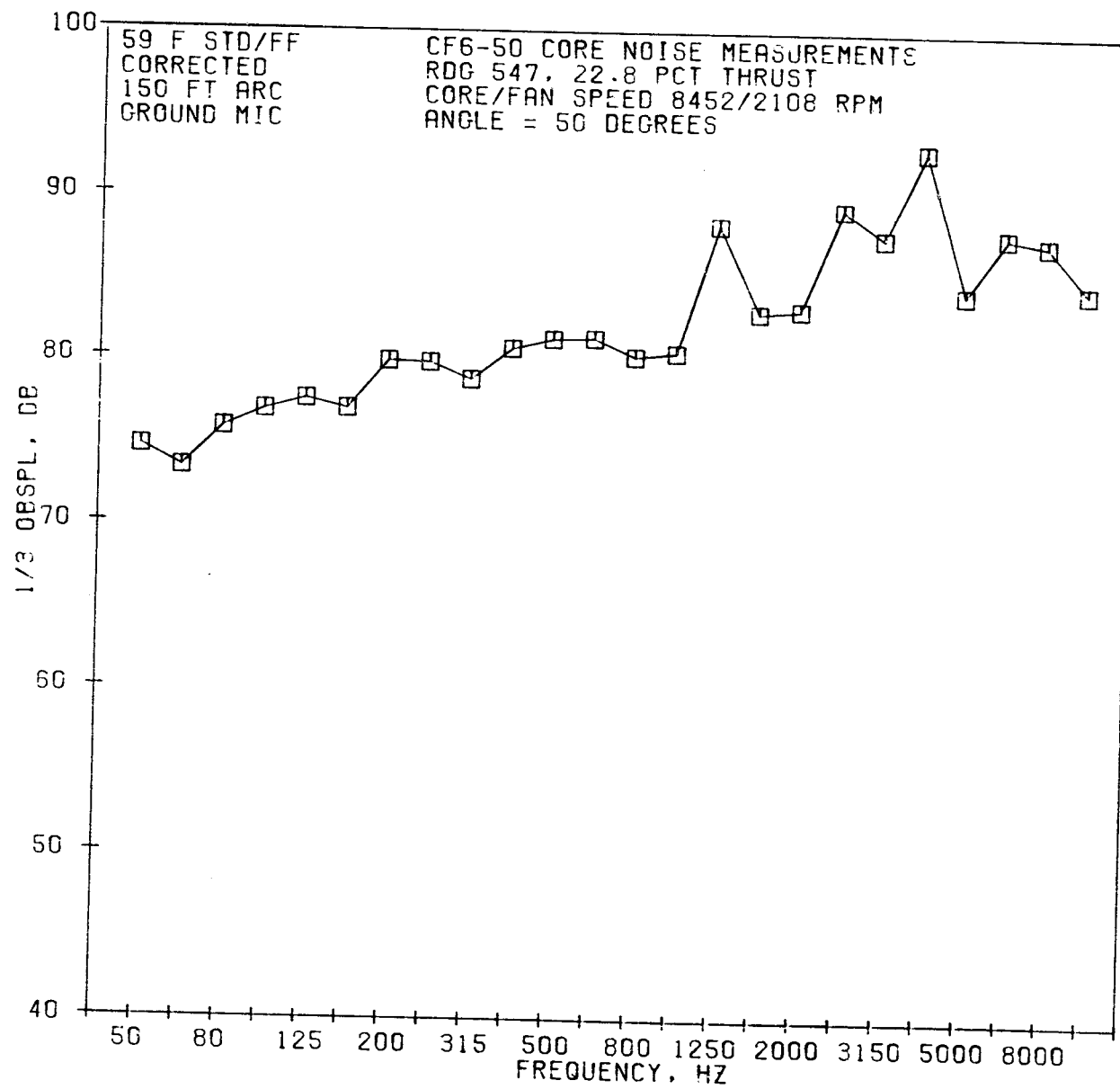
02/17/79
20134-001

79 GILBERT J



02/17/79
20134-001

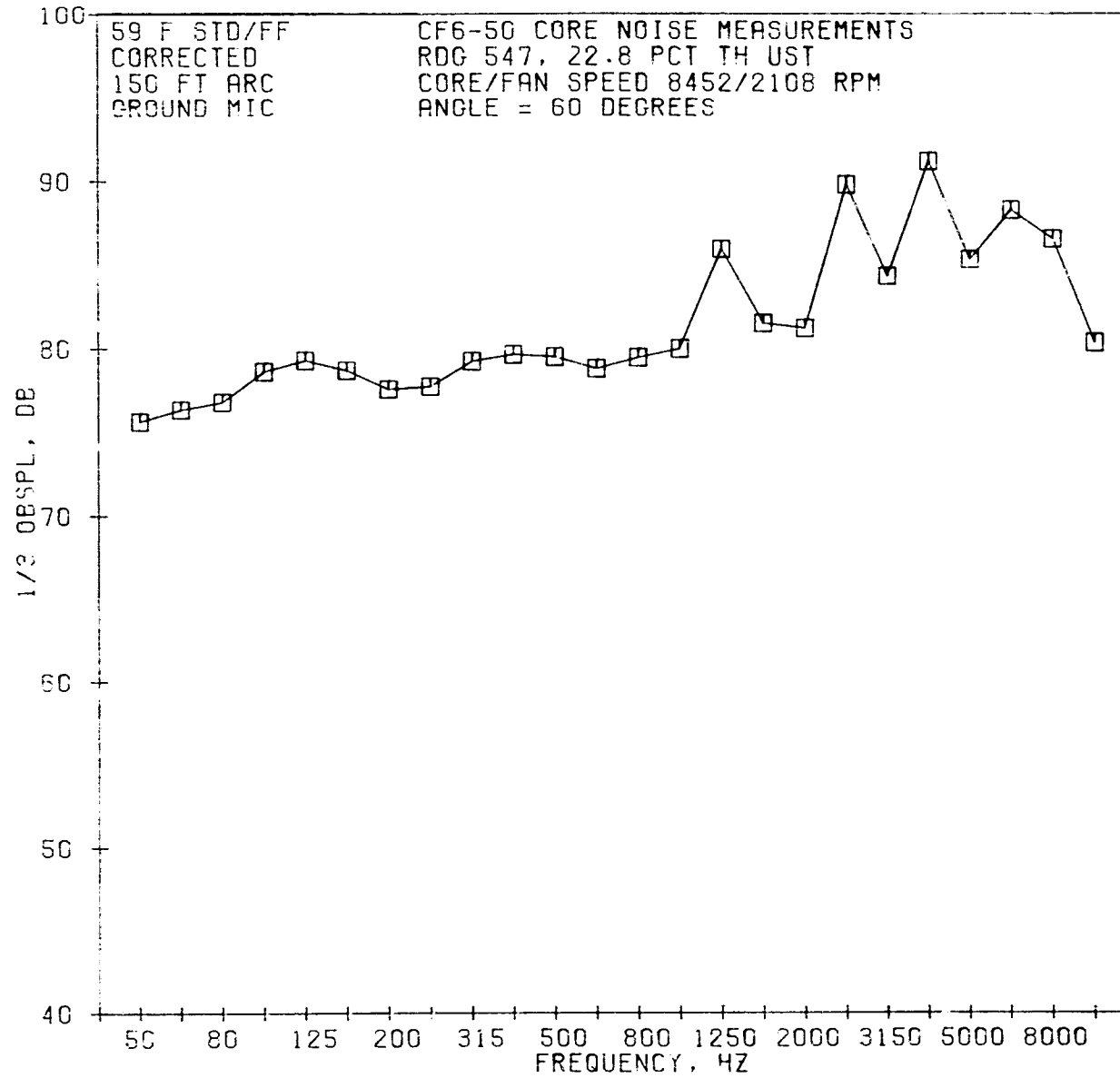
79 GILBERT J



253

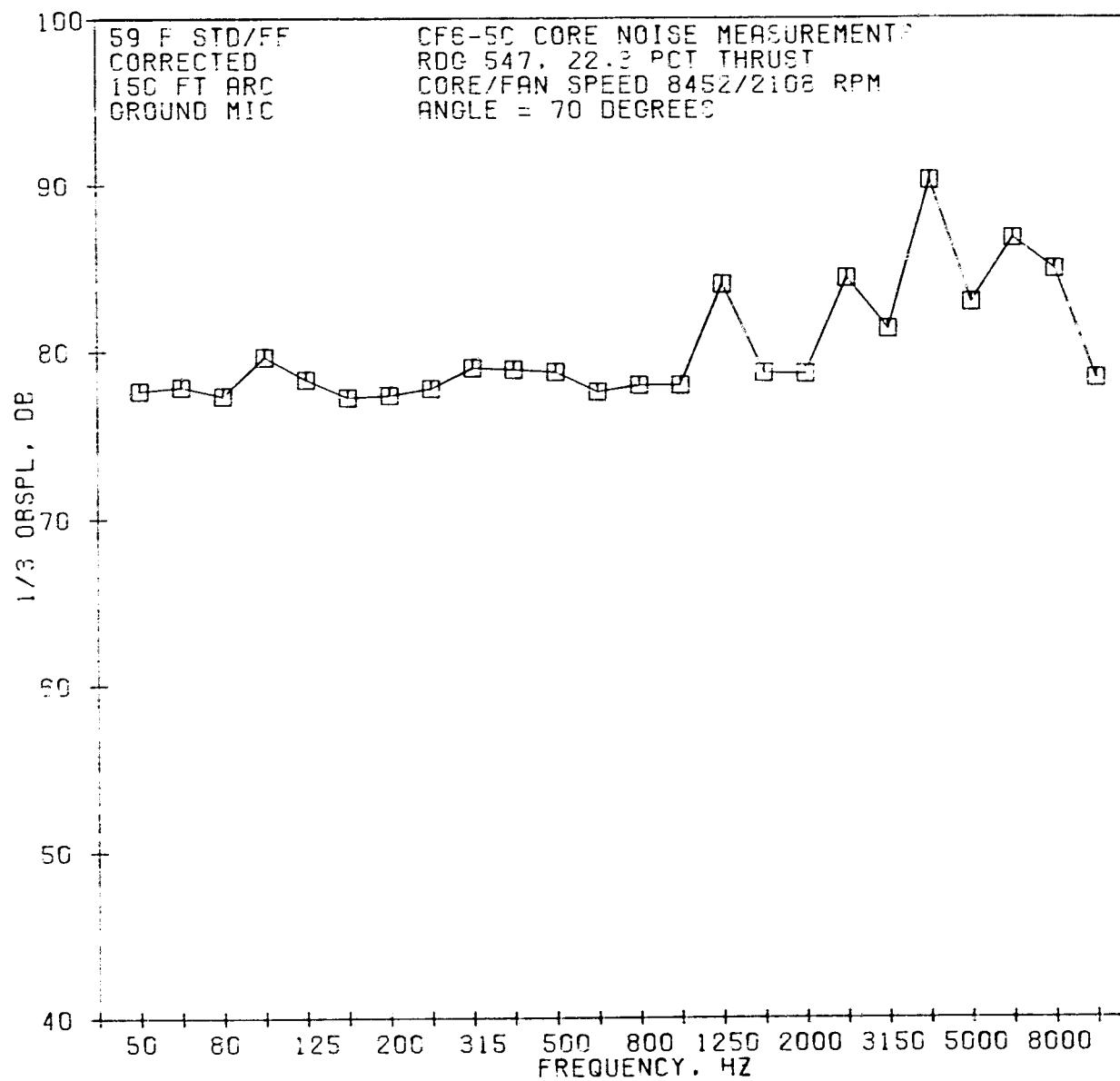
02/17/79
2G134-001

79 GILBERT J



02/17/79
20134-001

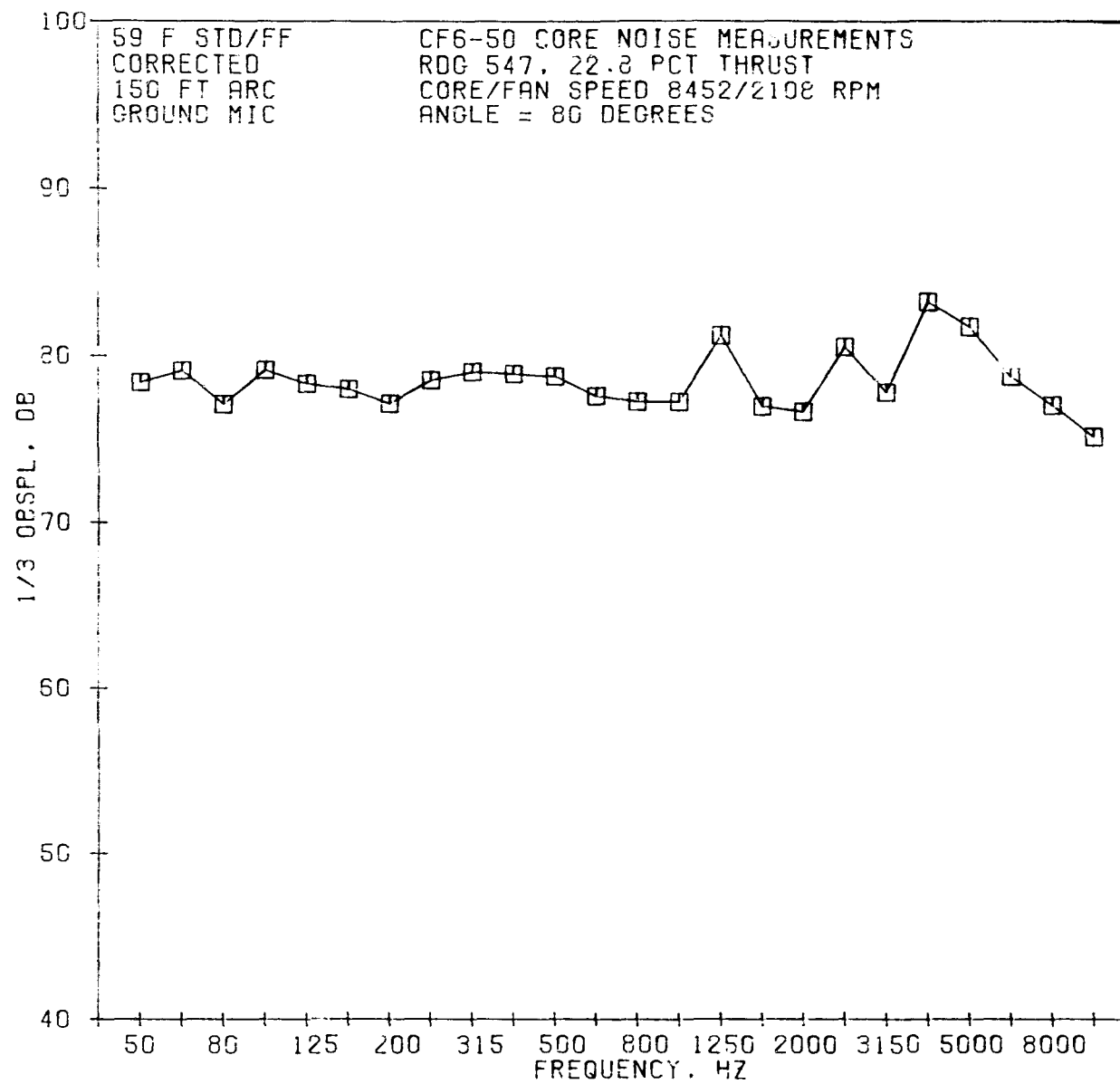
79 GILBERT J



255

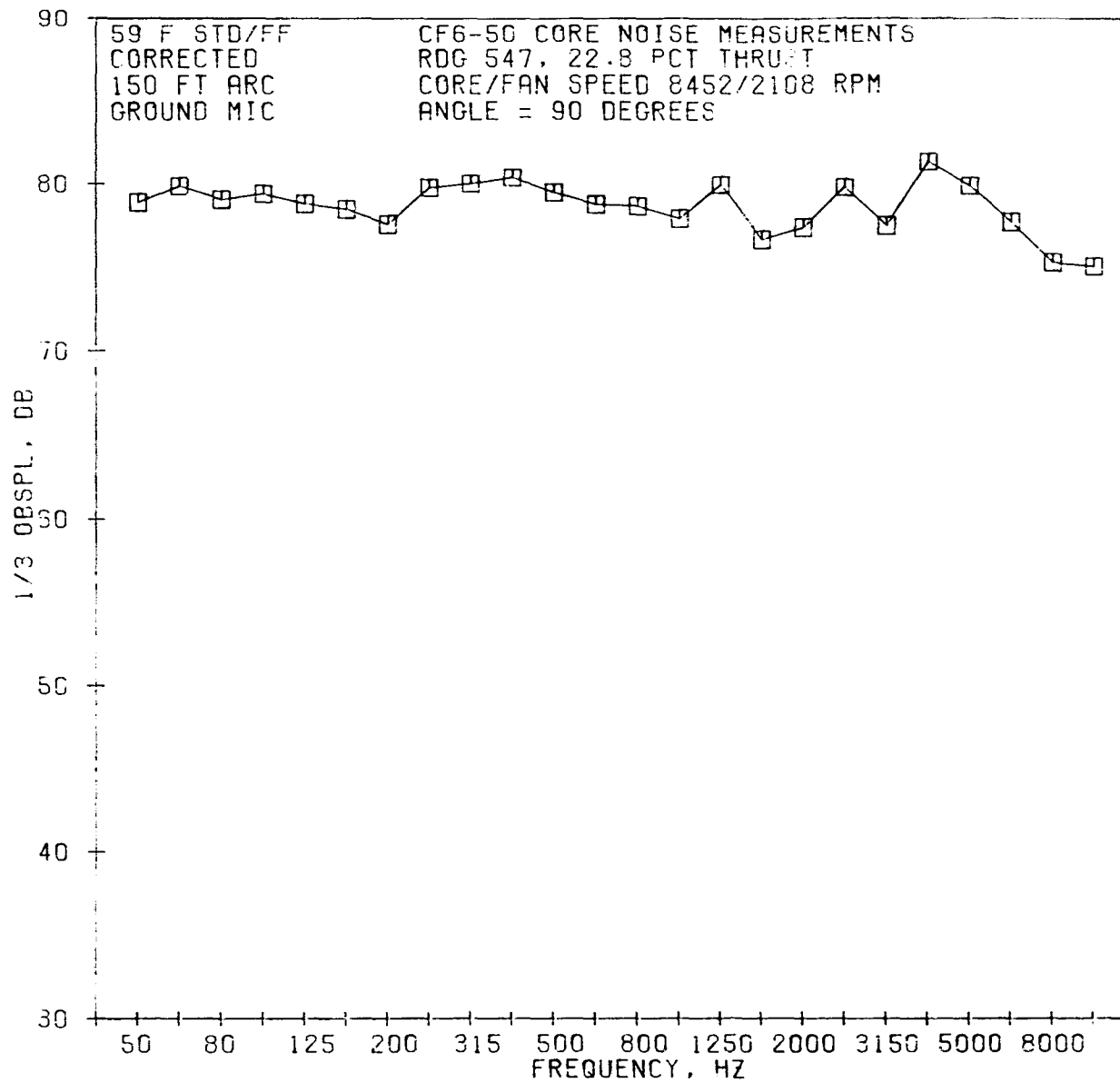
02/17/79
2G134-001

79 GILBERT J



02/17/79
2G134-001

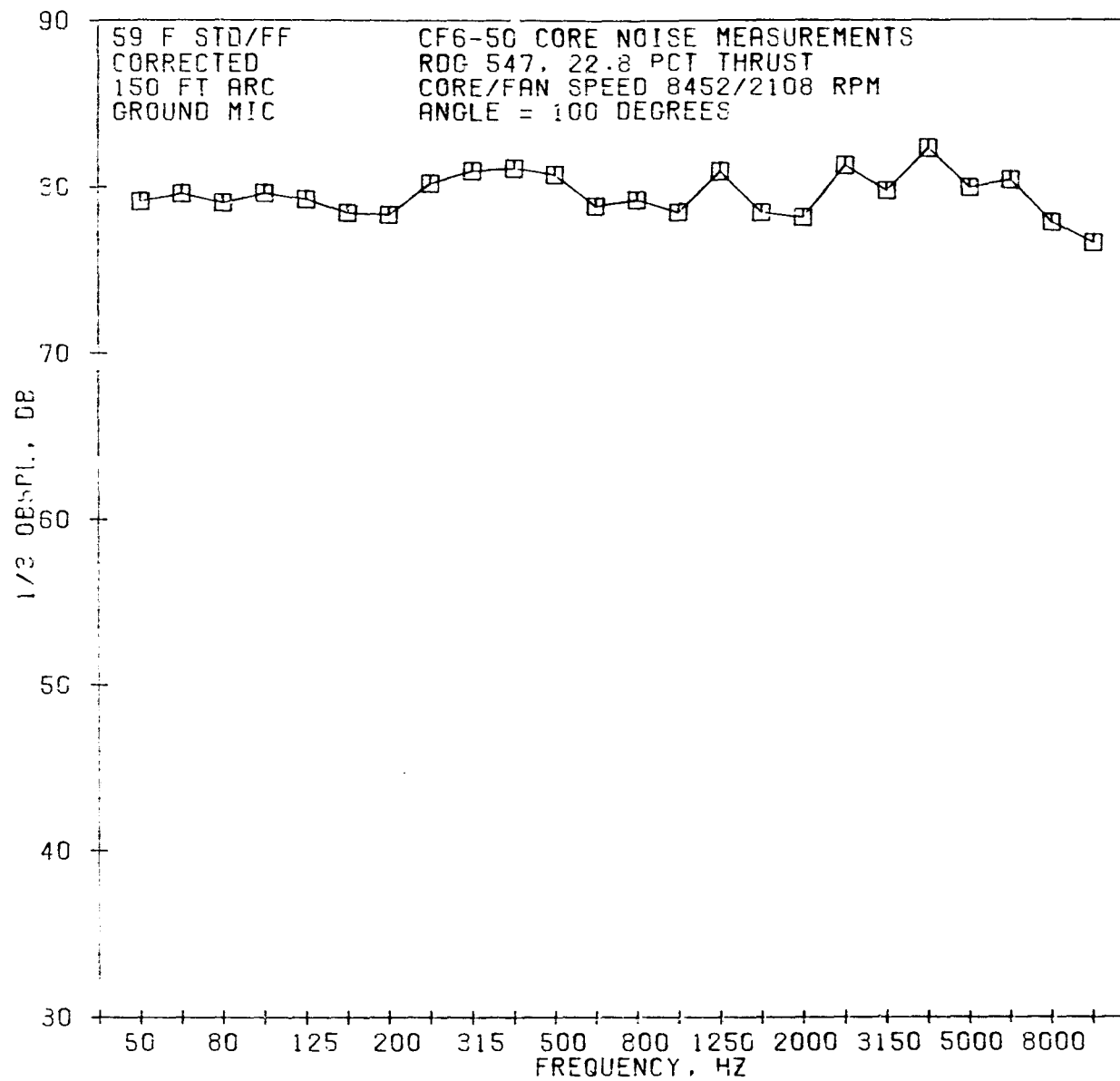
79 GILBERT J



257

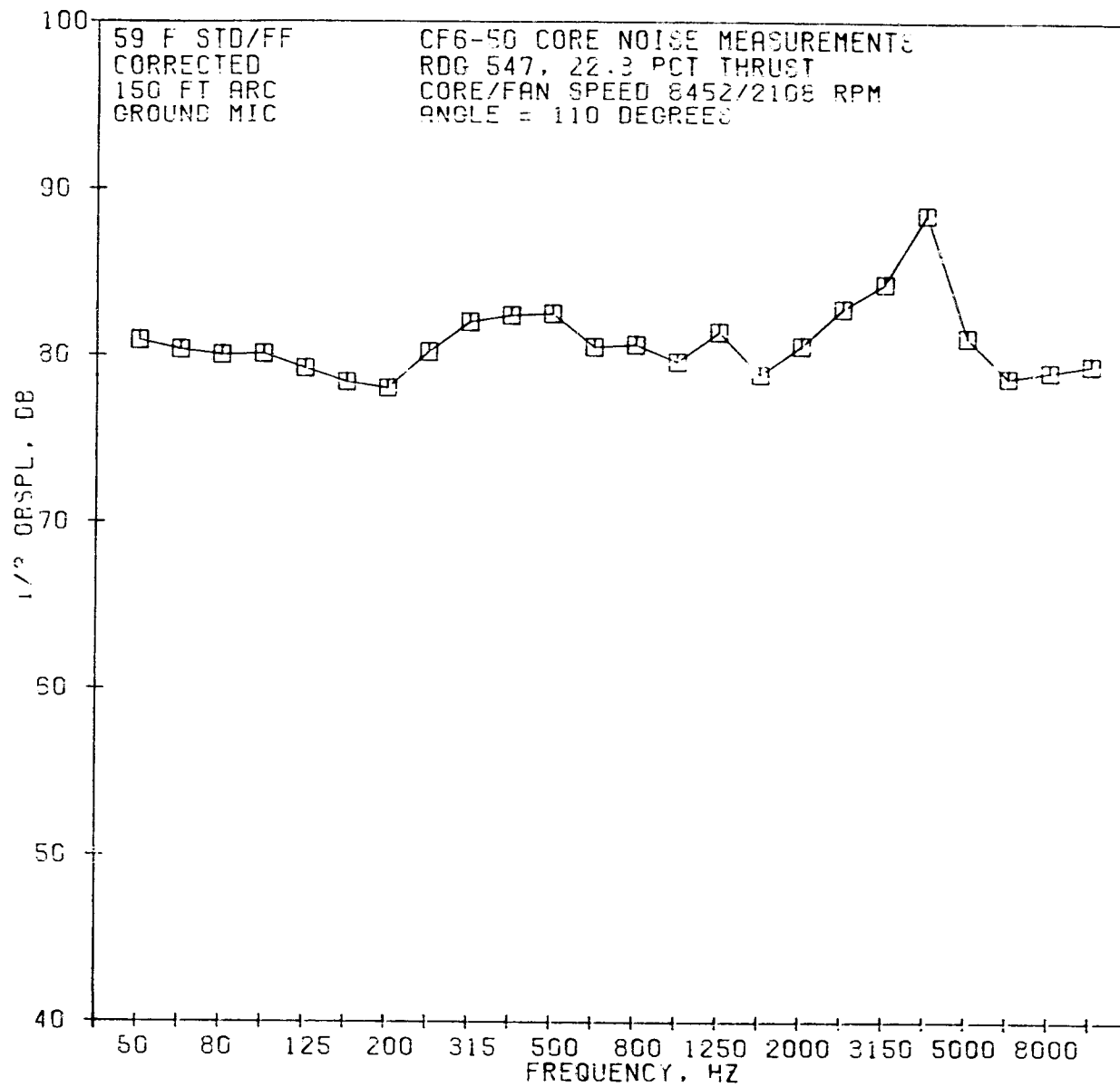
02/17/79
2G134-001

79 GILBERT J



02/17/79
2G134-001

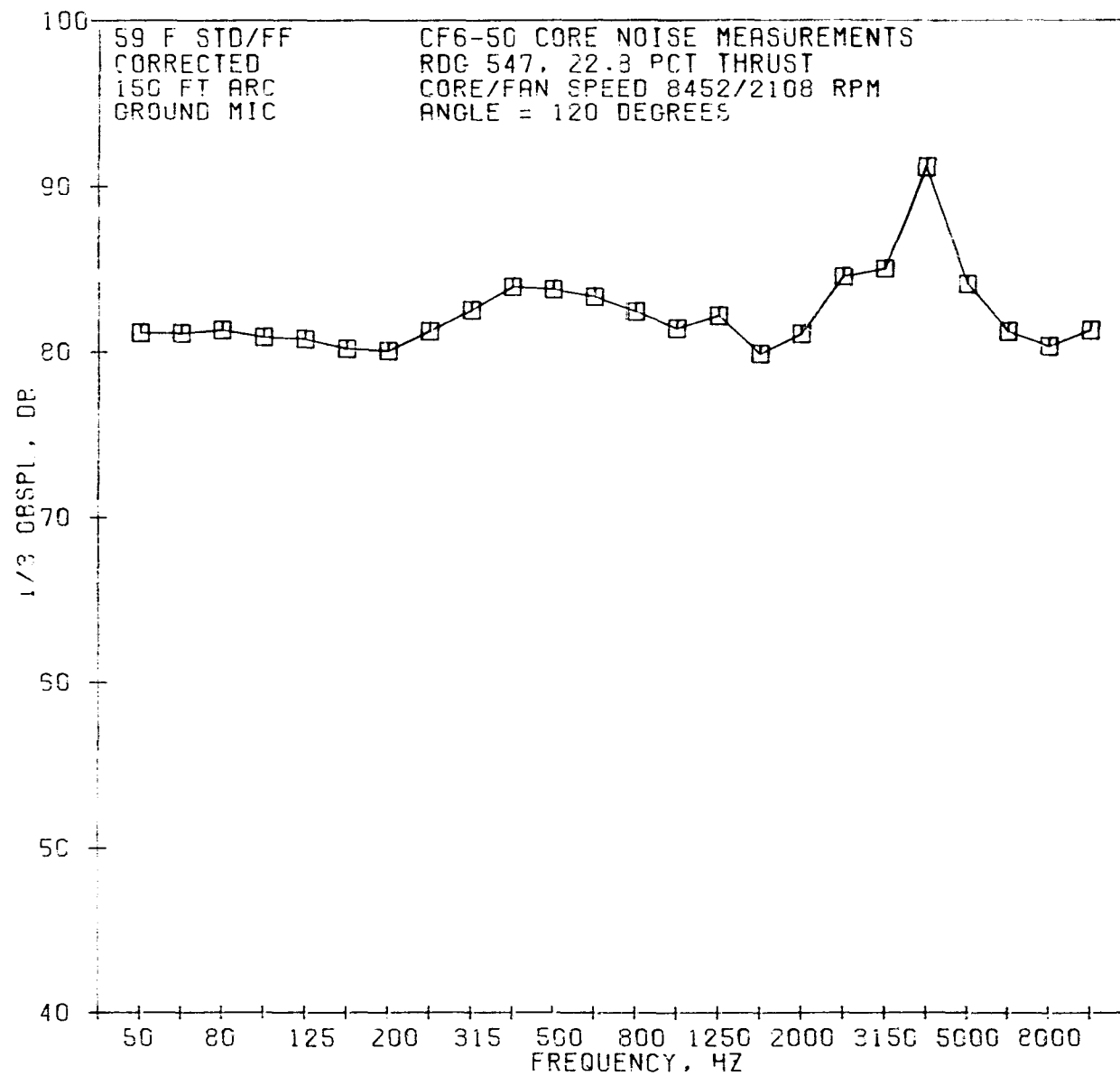
79 GILBERT J



259

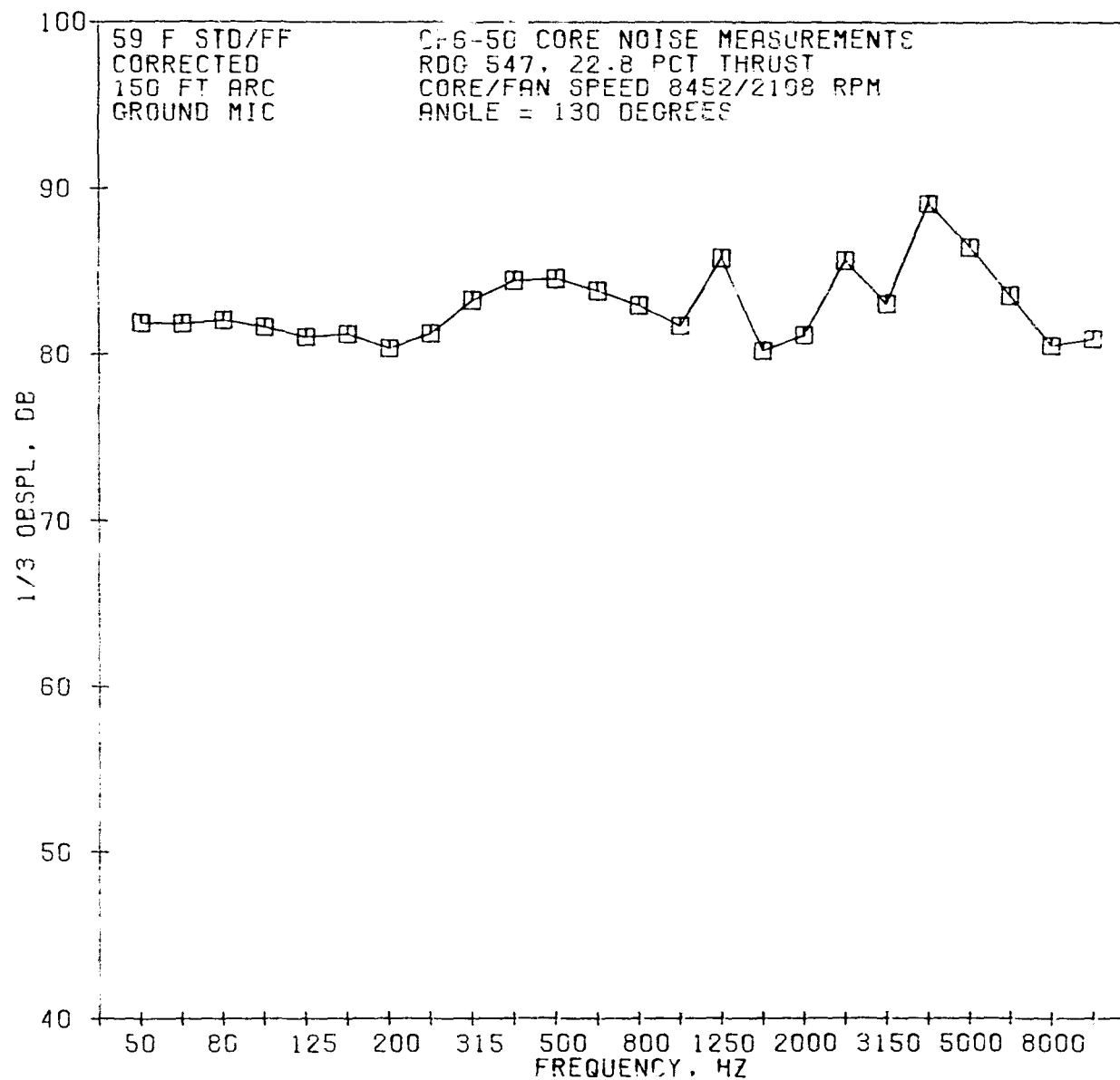
02/17/79
2G134-001

79 GILBERT J



02/17/79
20134-001

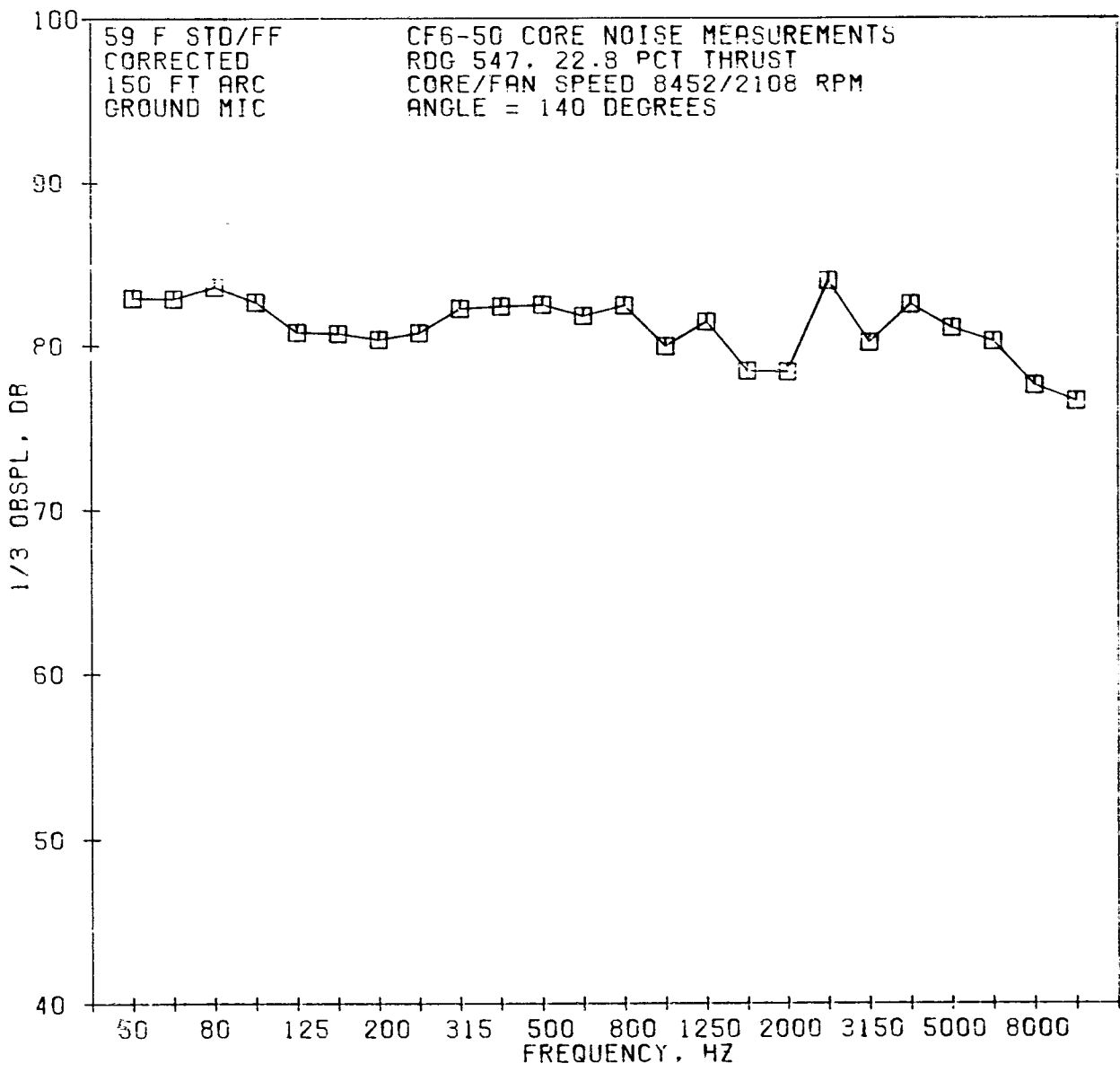
79 GILBERT J

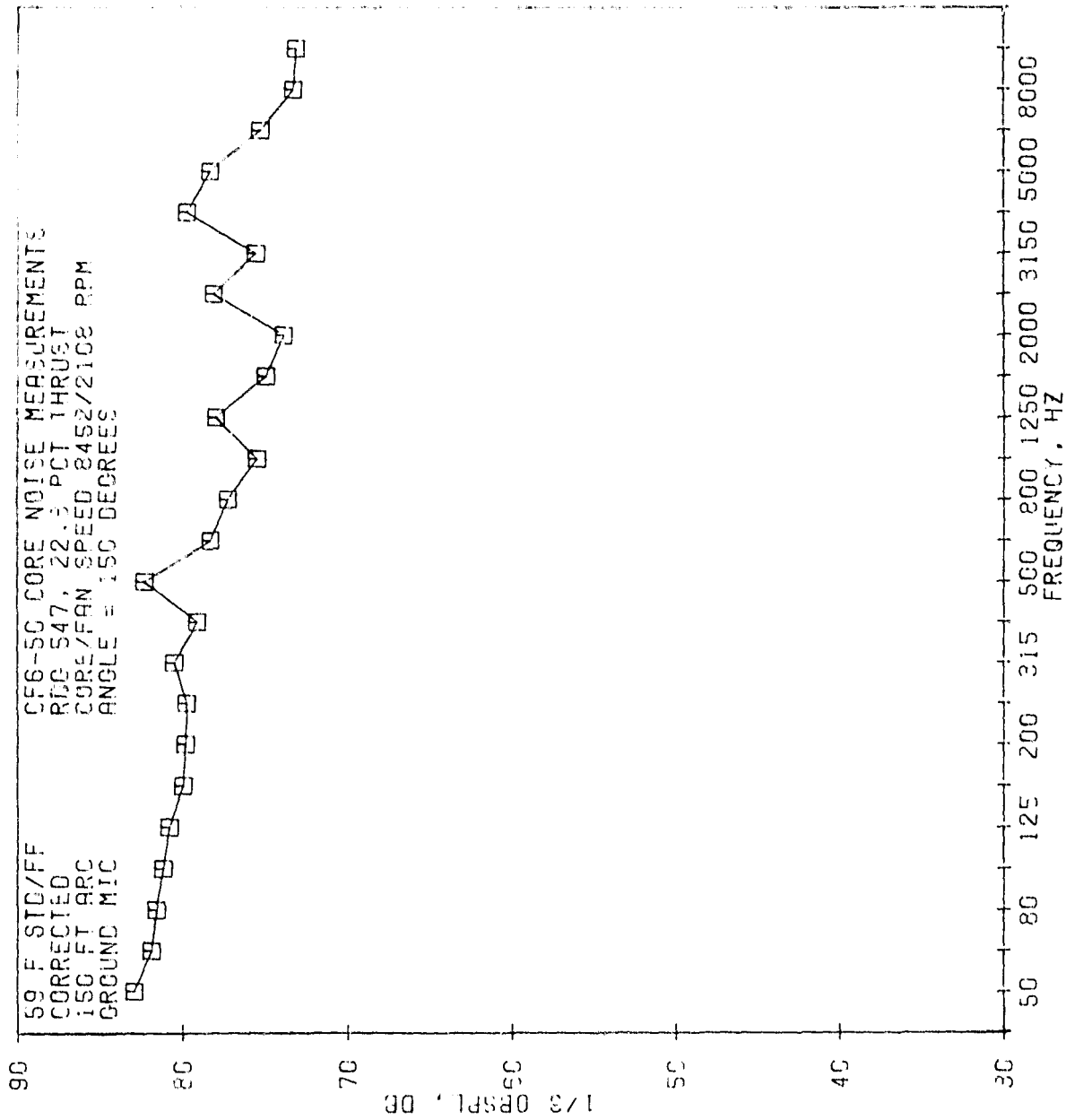


261

02/17/79
2G134-001

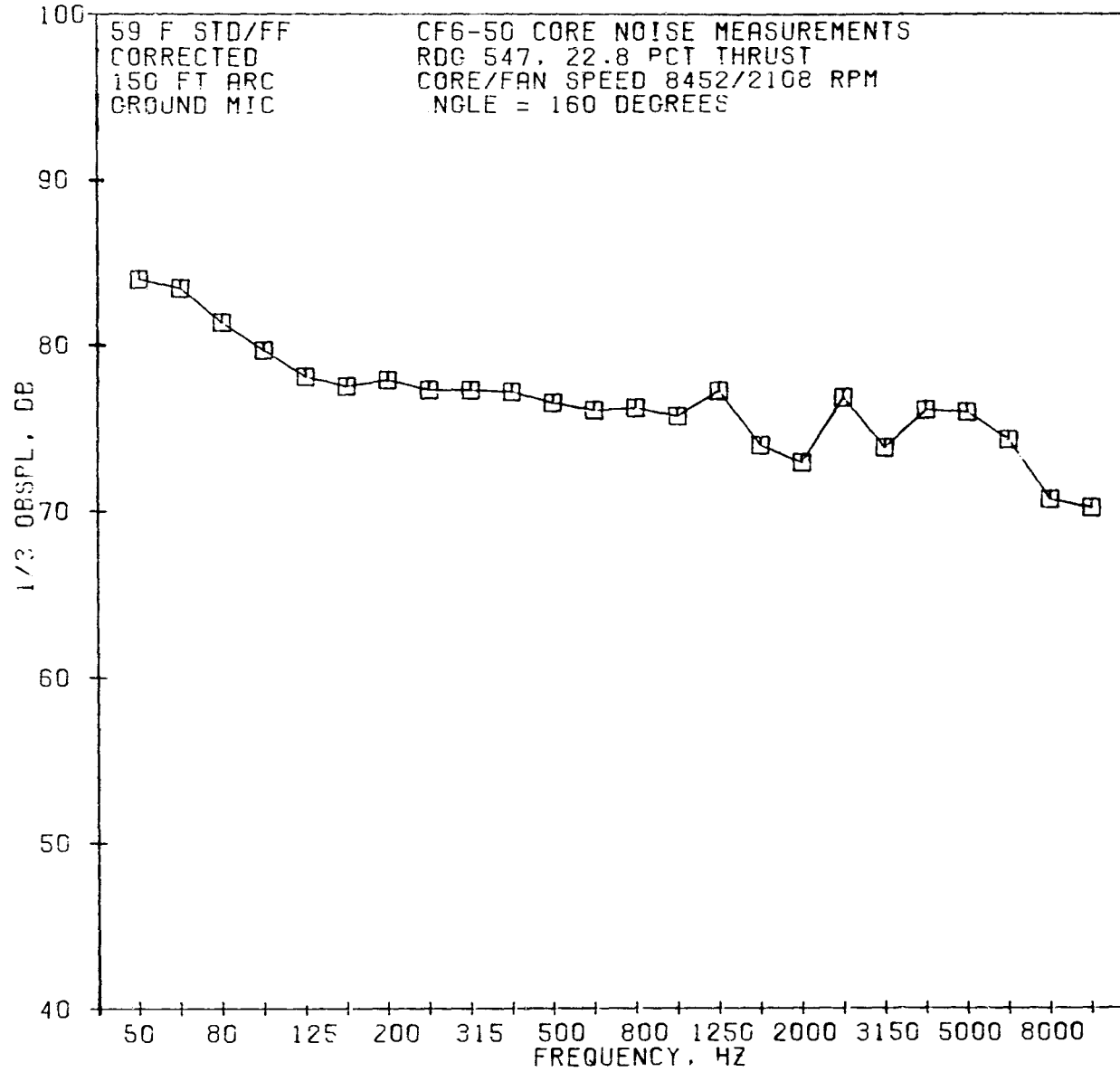
79 GILBERT J





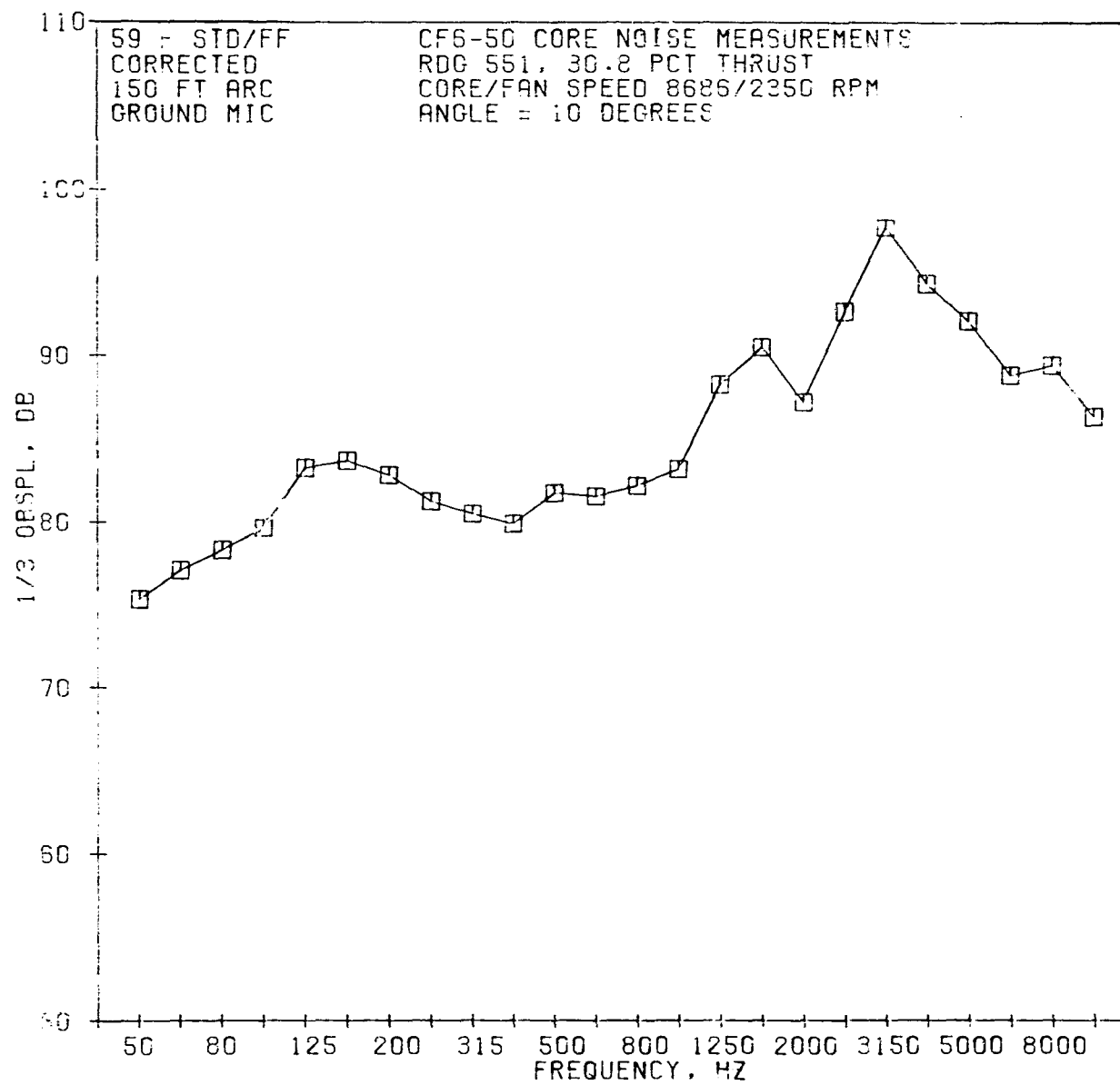
02/17/79
 ZC124-001

79 GILBERT J



02/17/79
2G134-001

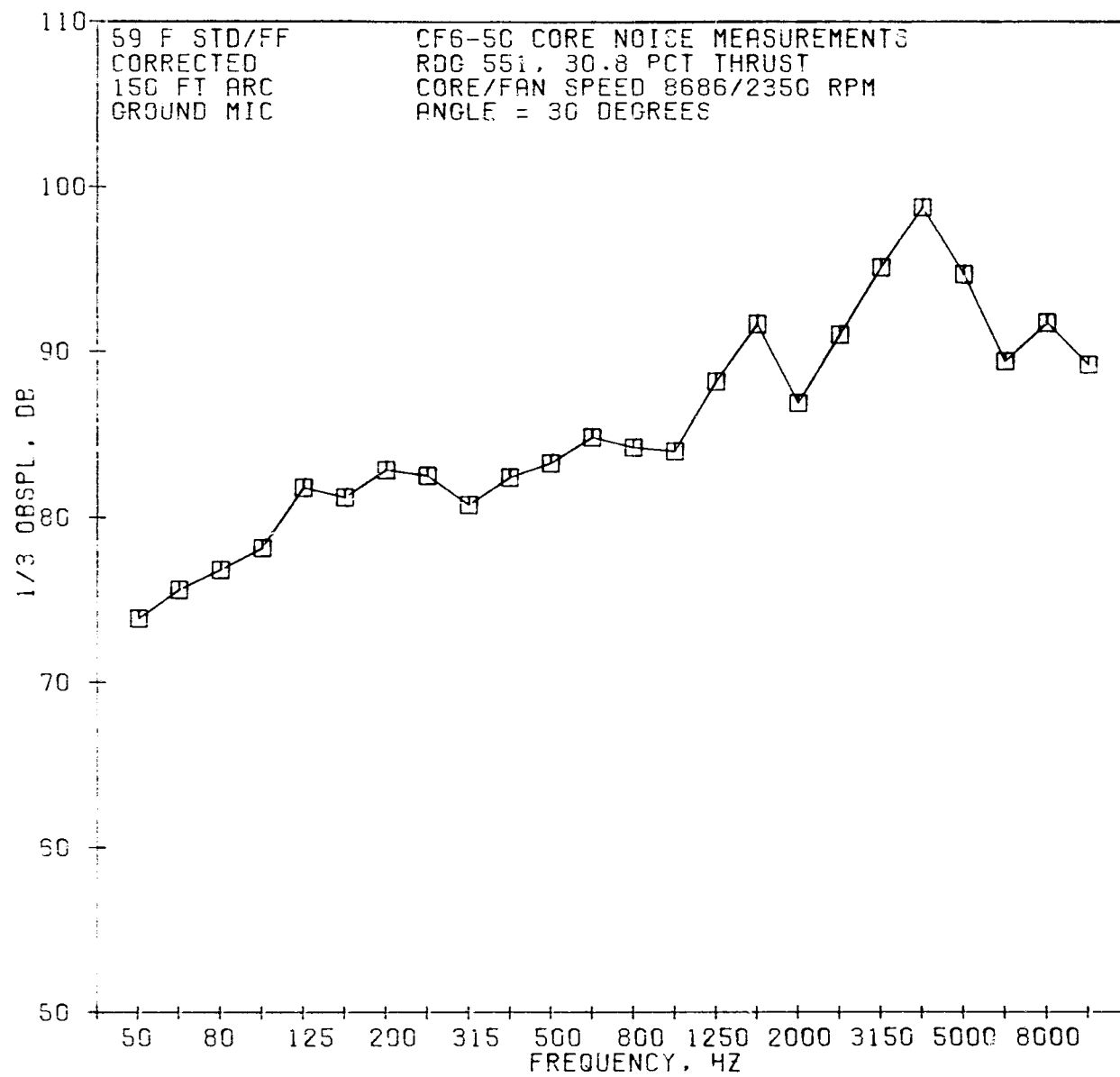
79 GILBERT J



265

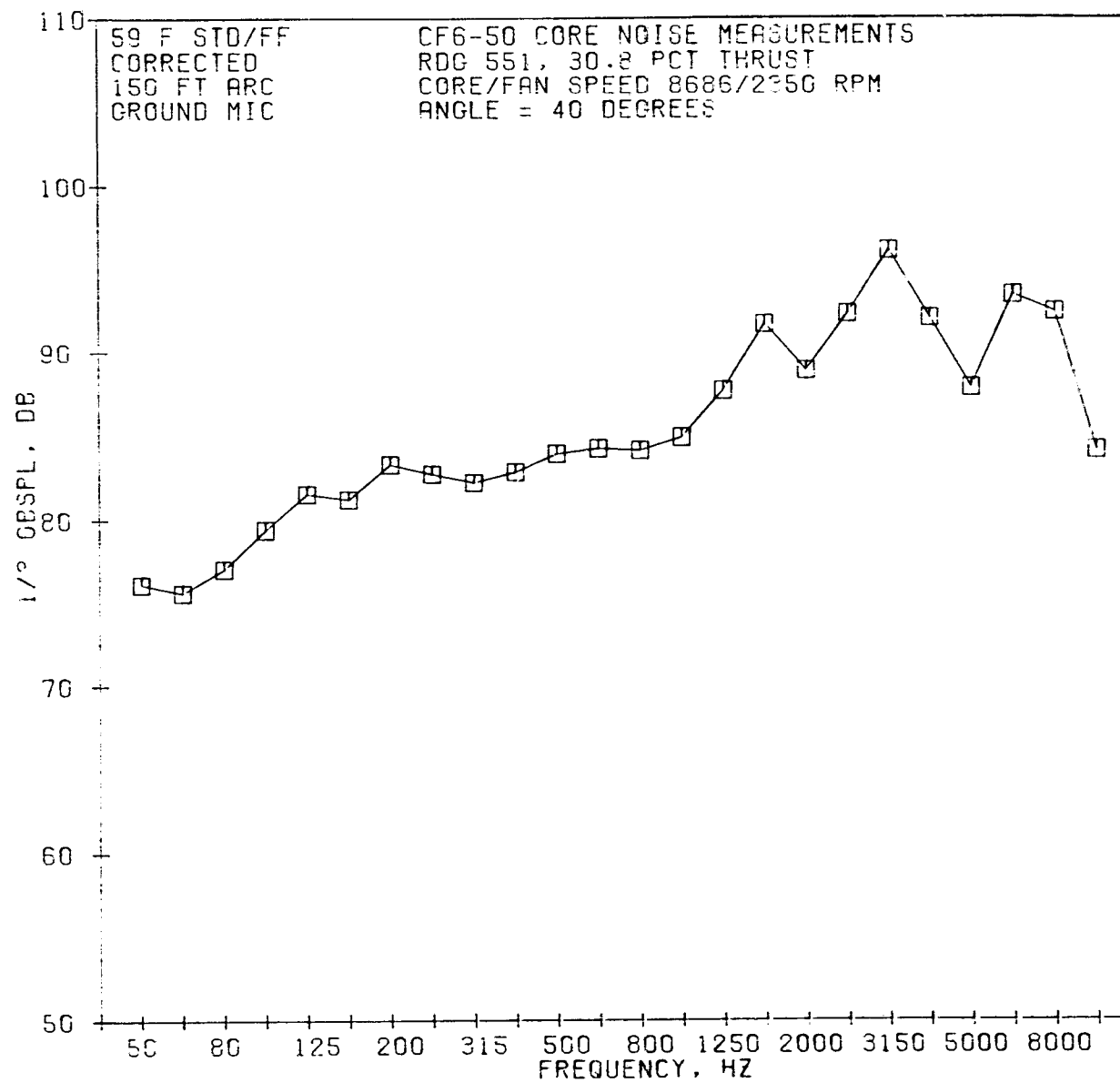
02/17/79
20134-001

79 GILBERT J



02/17/79
20134-001

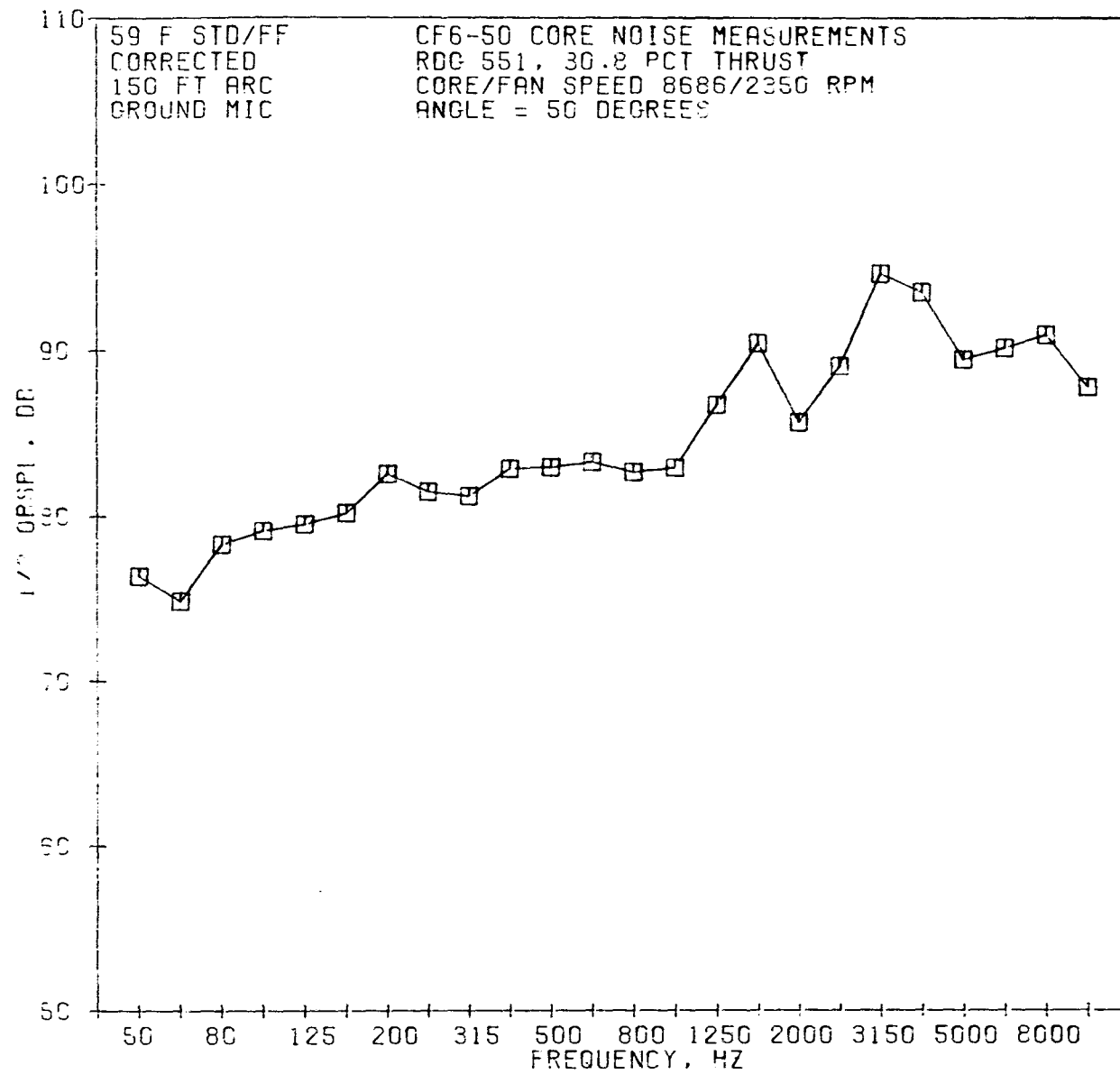
79 GILBERT J



267

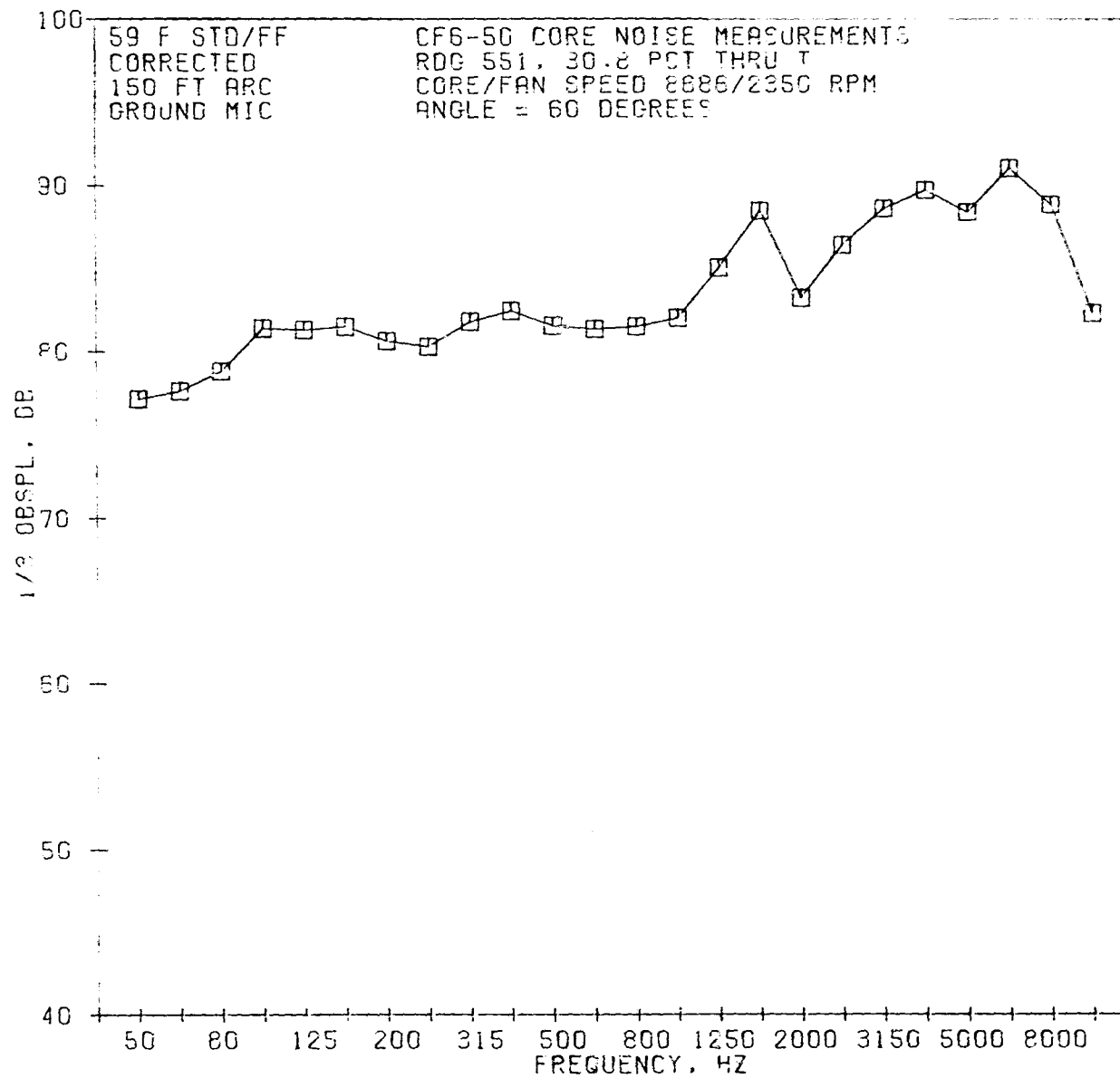
02/17/79
20134-001

79 GILBERT J



02/17/79
20134-001

79 GILBERT J

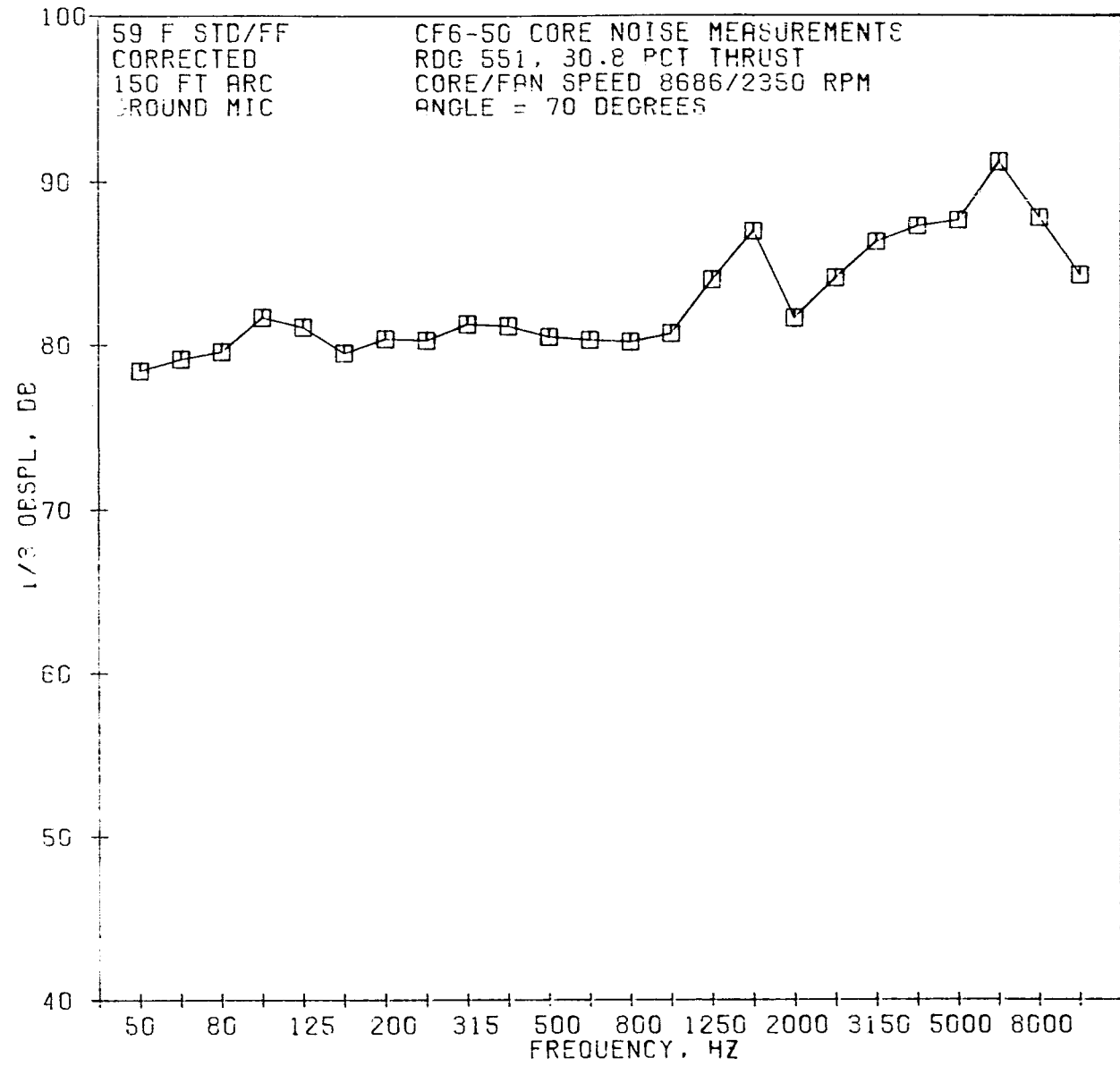


269

02/17/79
2G134-001

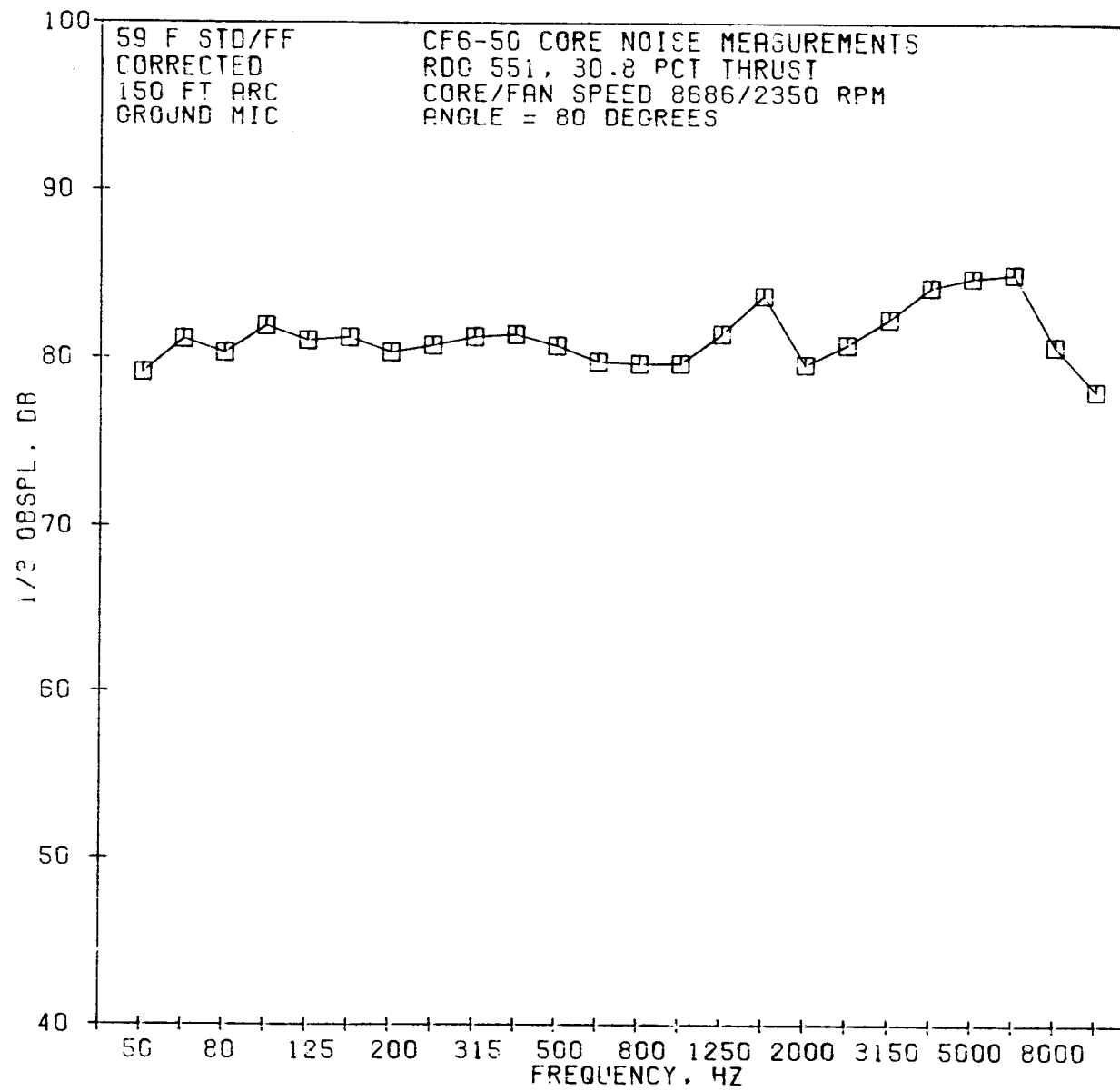
79 GILBERT J

270



02/17/79
20134-001

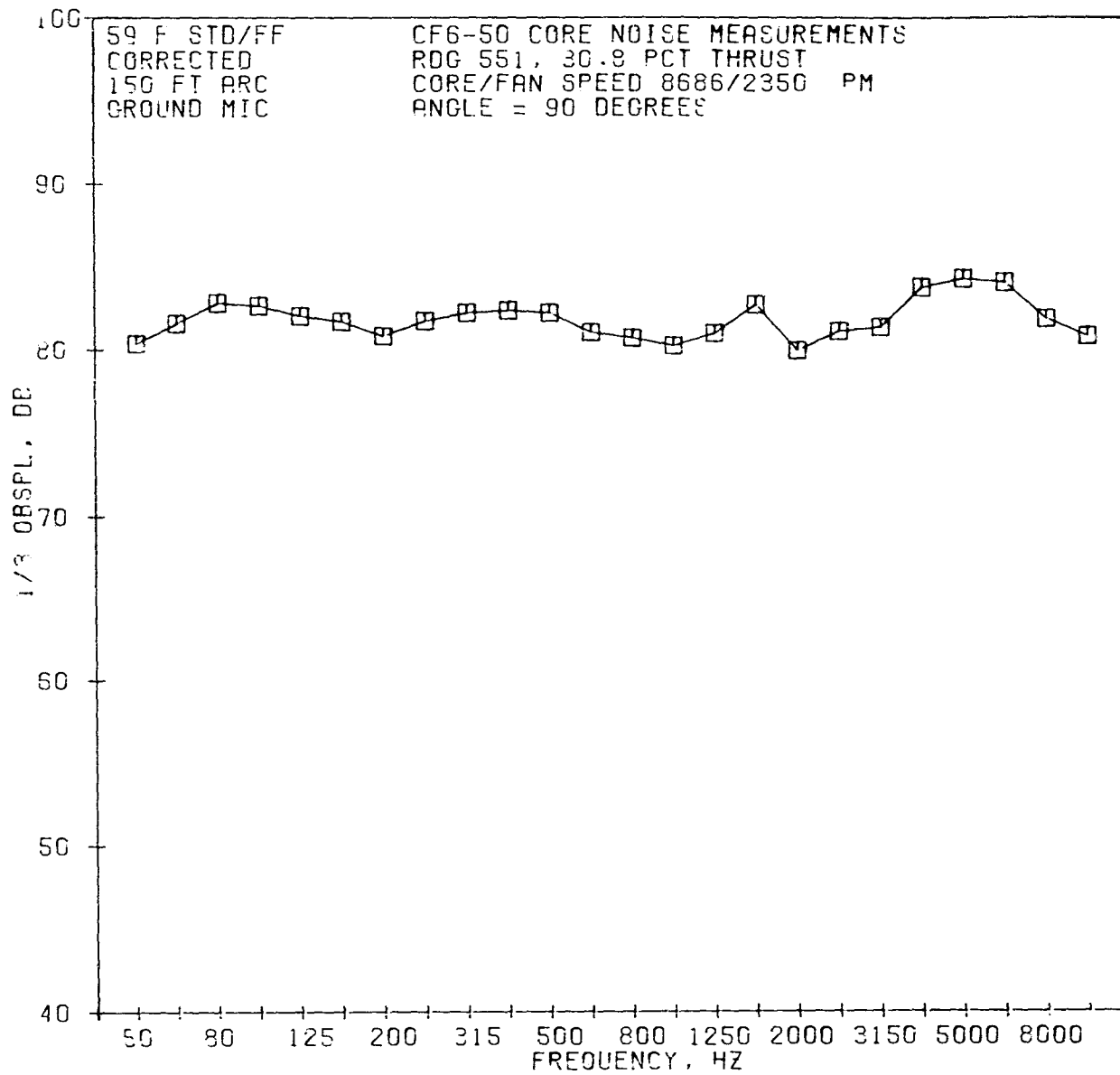
79 GILBERT J



271

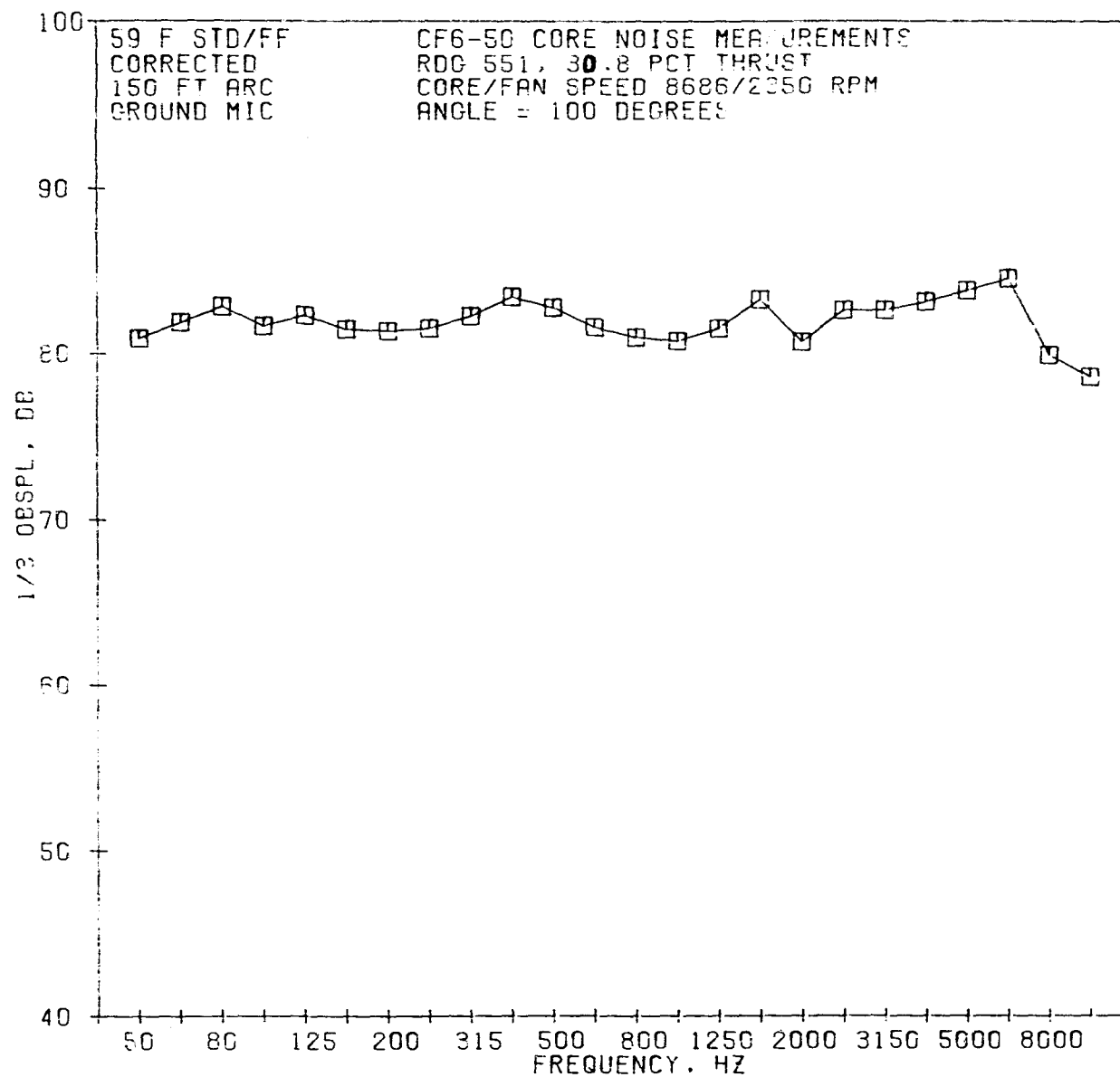
02/17/79
2G134-001

79 GILBERT J



02/17/79
20134-001

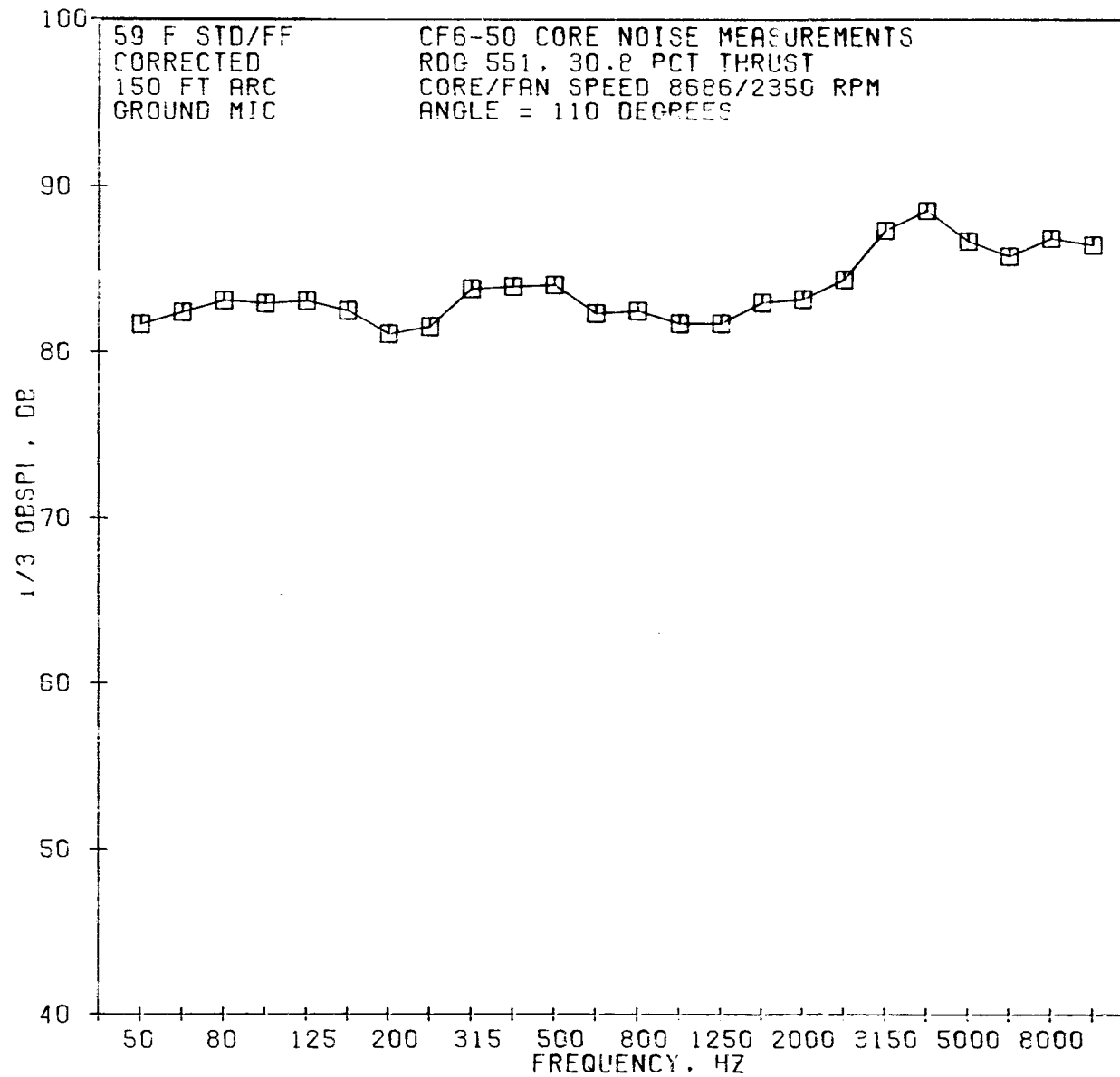
79 GILBERT J



273

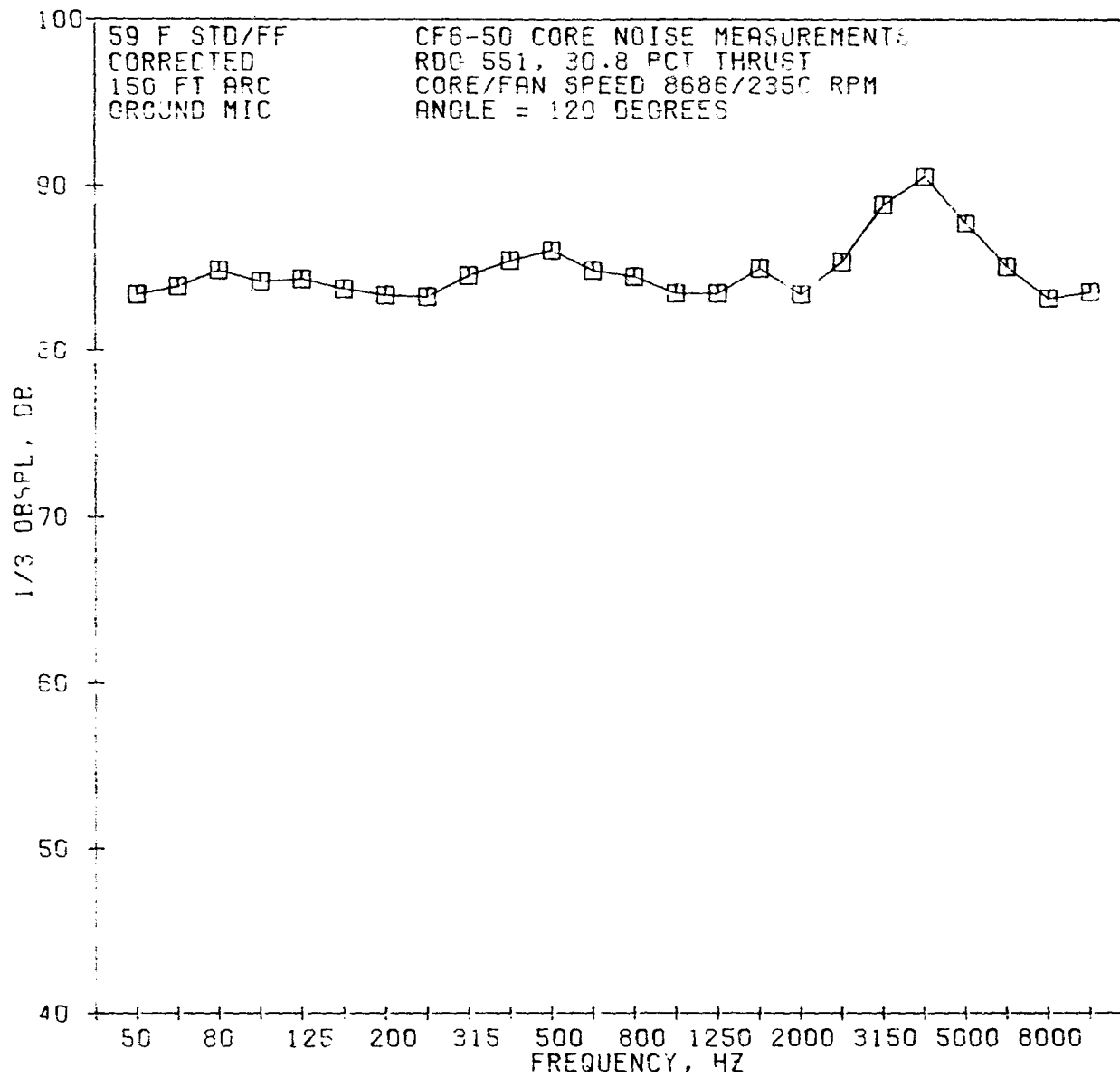
02/17/79
20134-001

79 GILBERT J



02/17/79
20134-001

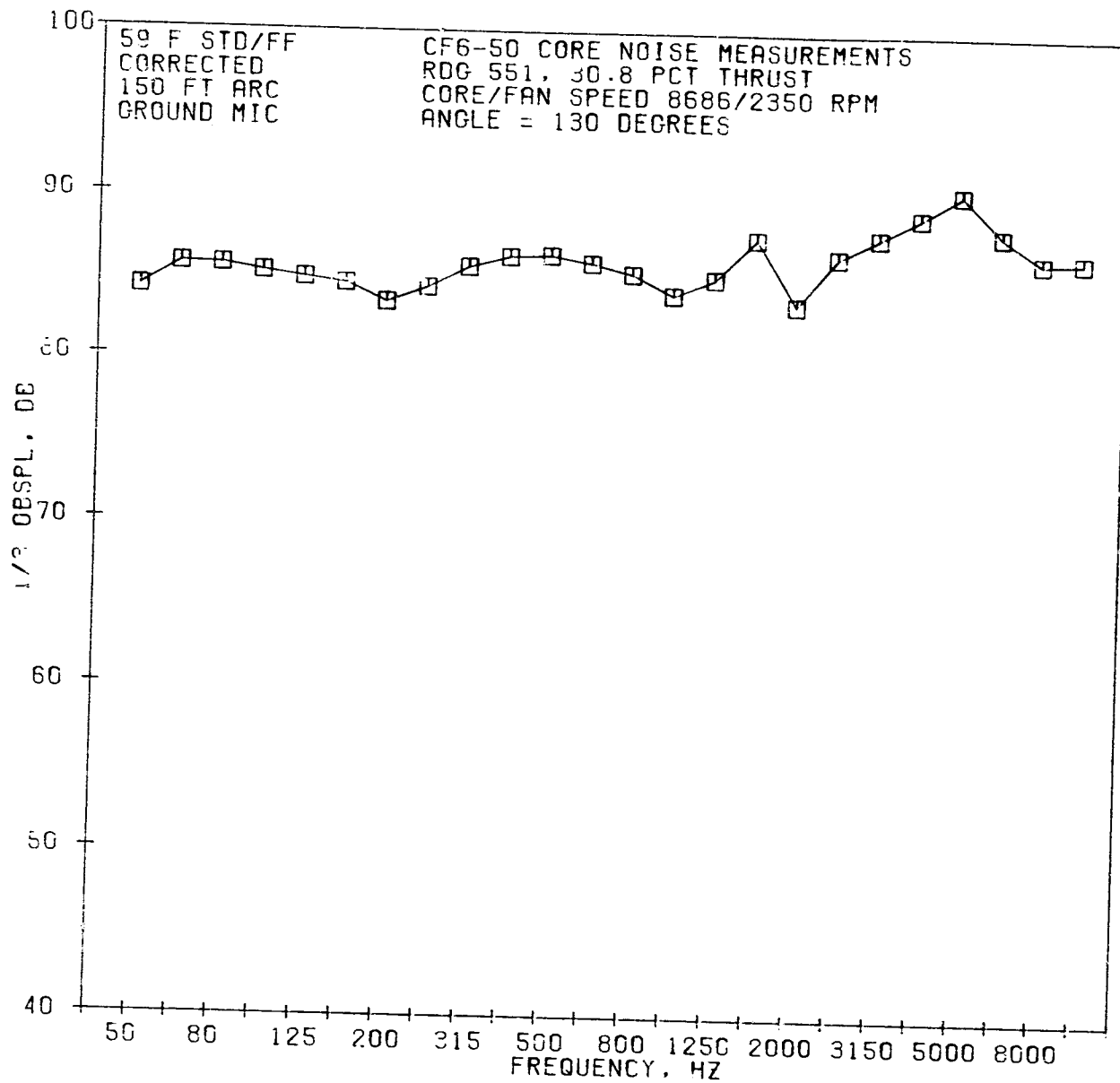
79 GILBERT J



275

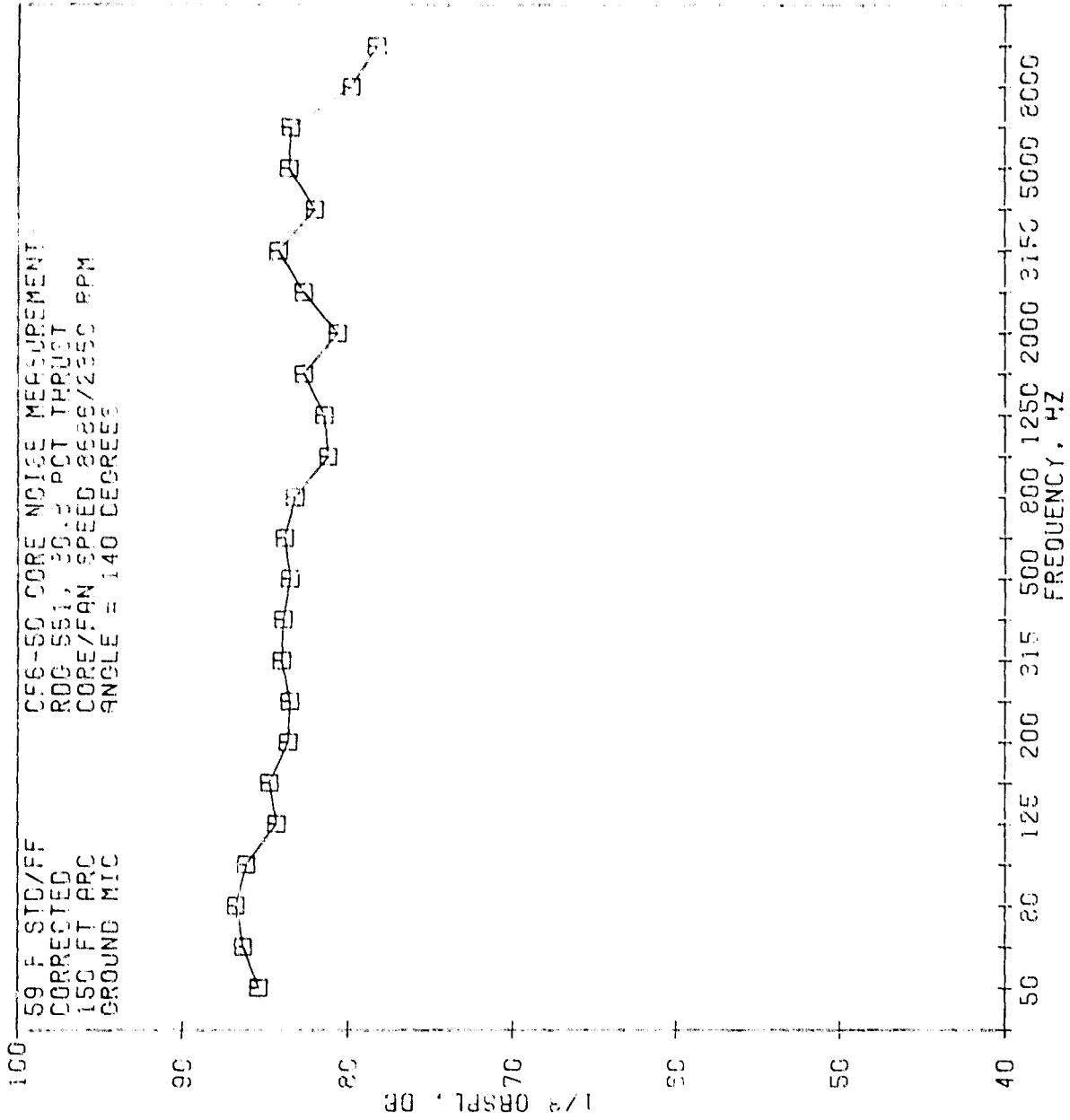
02/17/79
20134-001

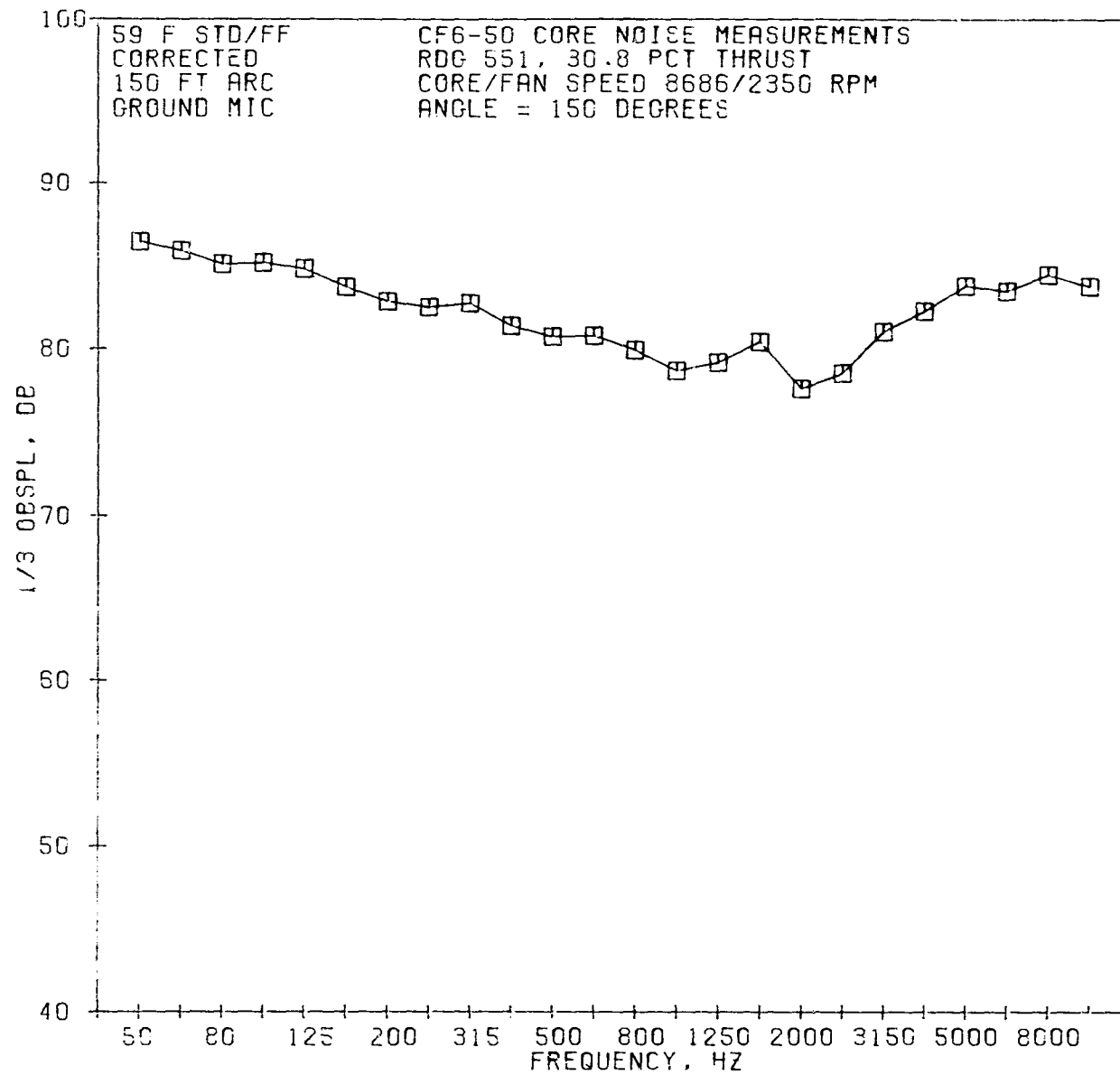
79 GILBERT J

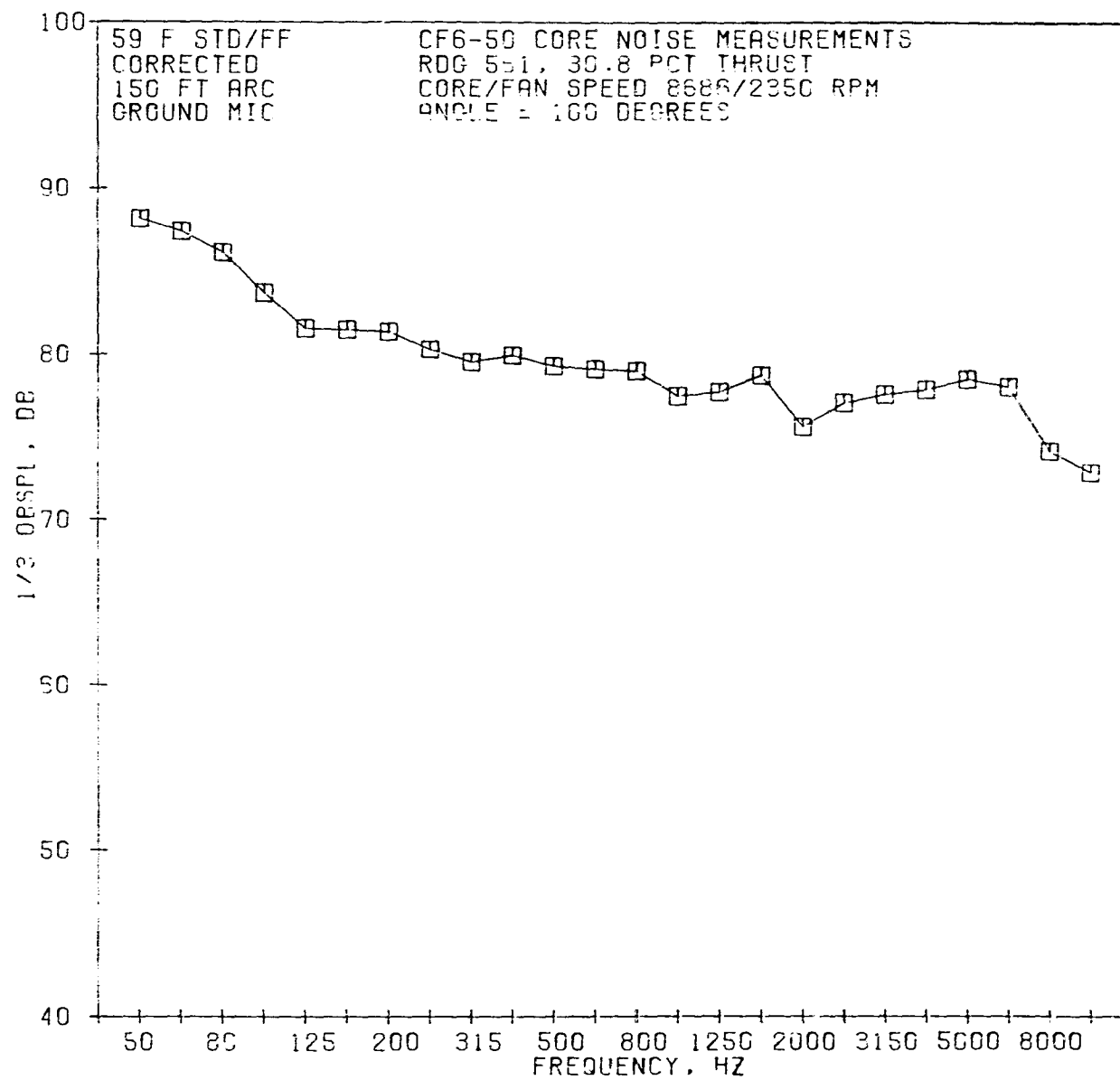


G2/17/79
2G134-001

79 GILBERT J



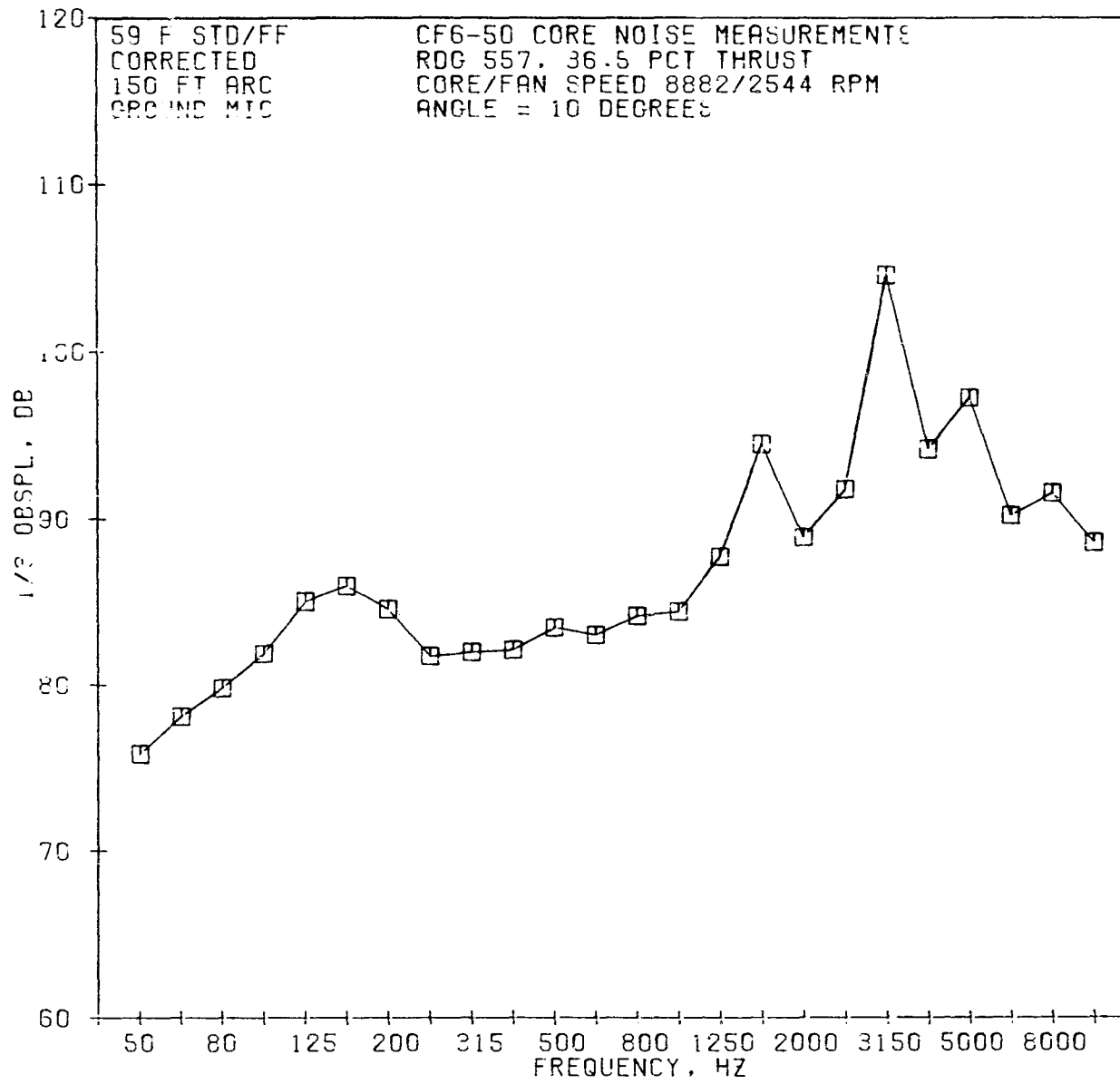




279

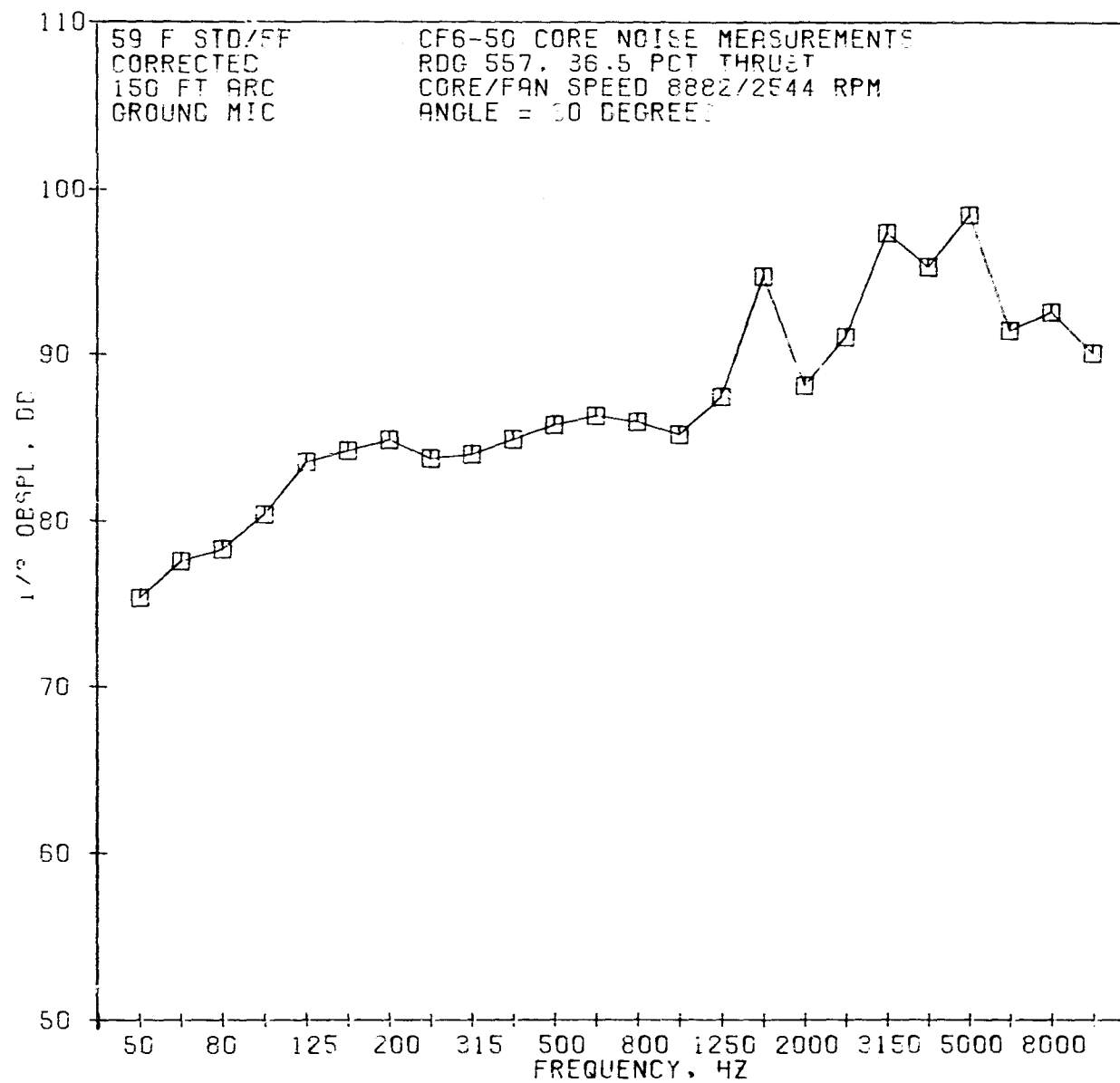
G2/17/79
20134-001

79 GILBERT J



02/17/79
20124-001

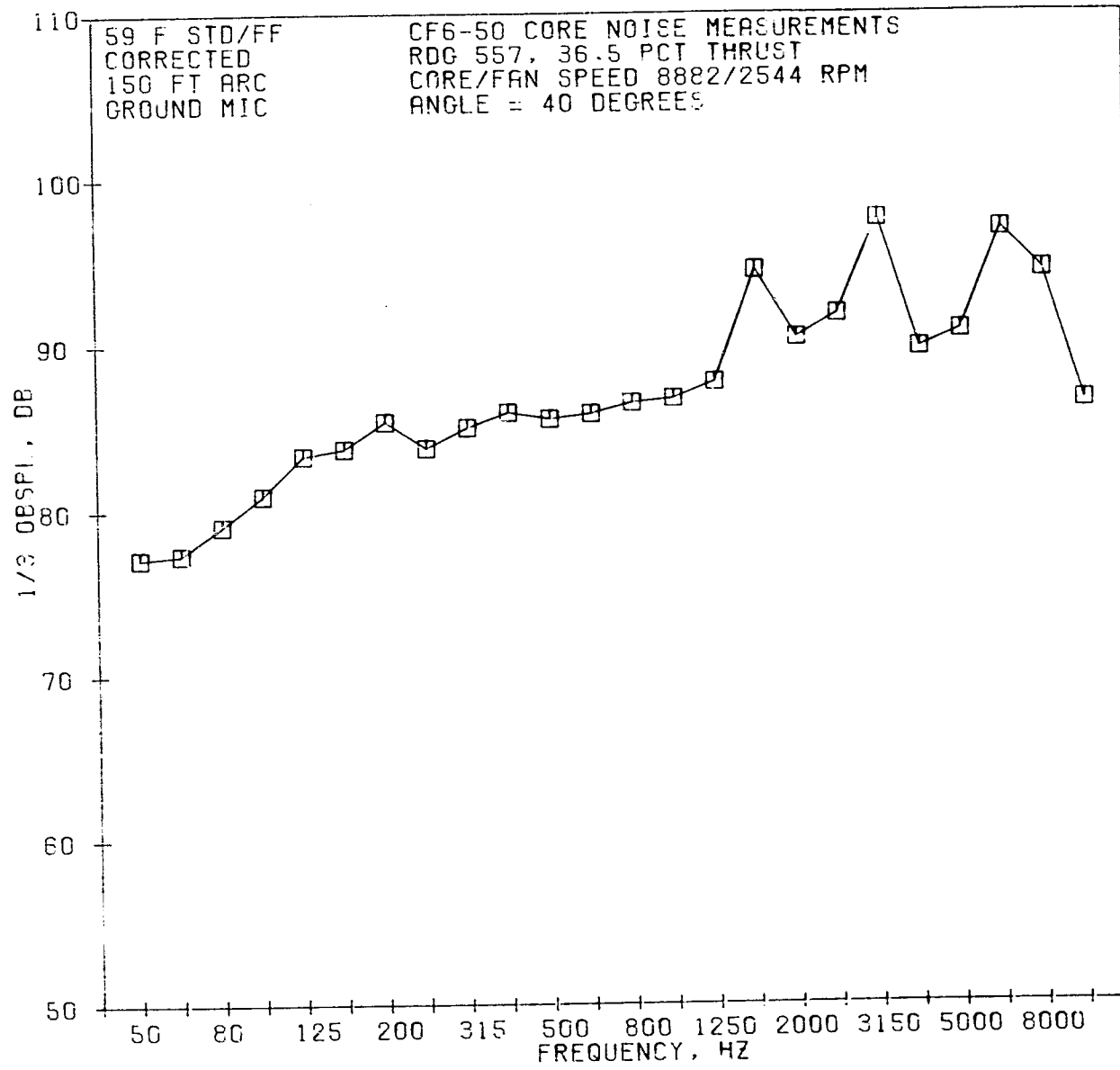
79 GILBERT J

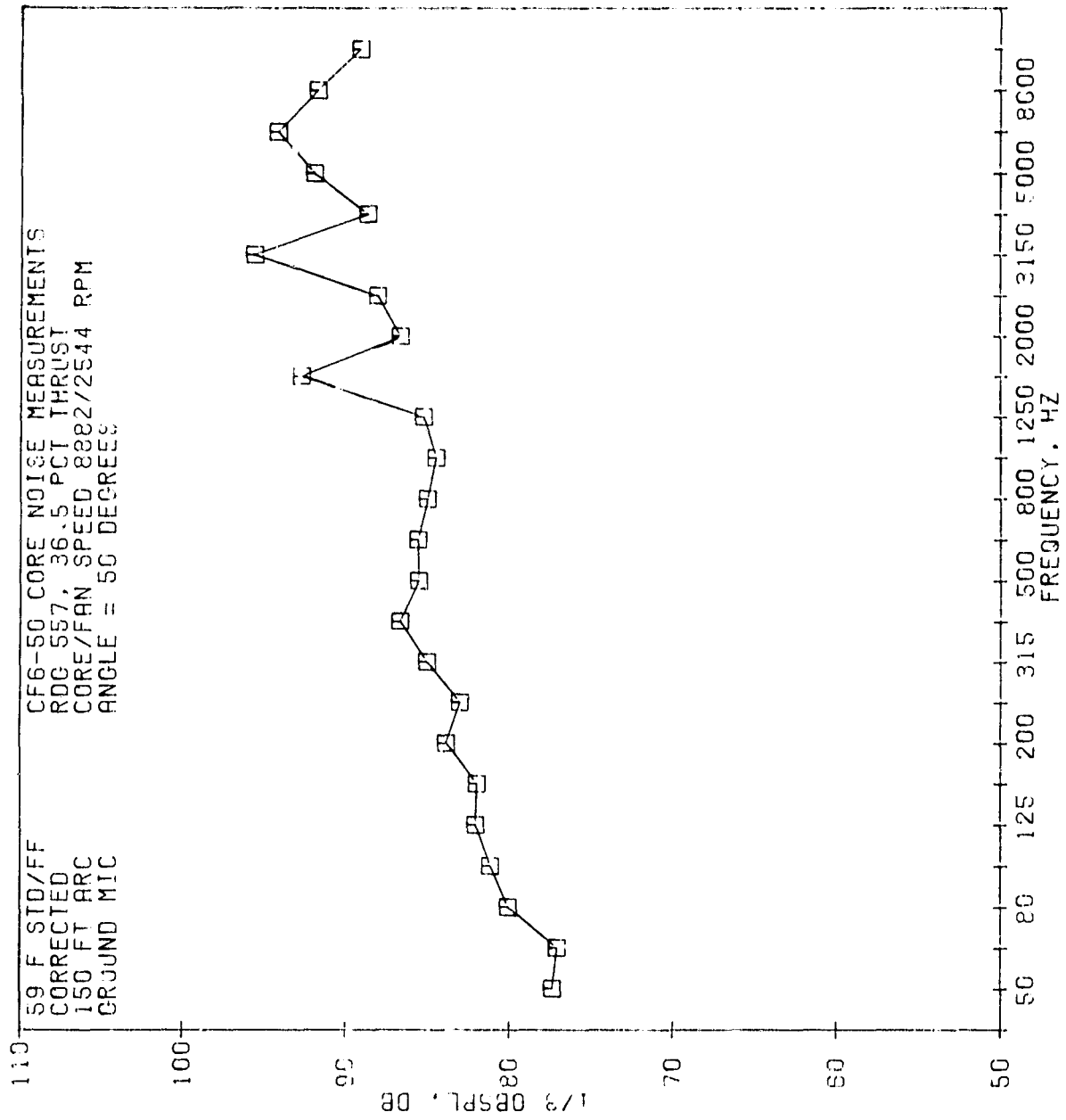


281

02/17/79
20124-001

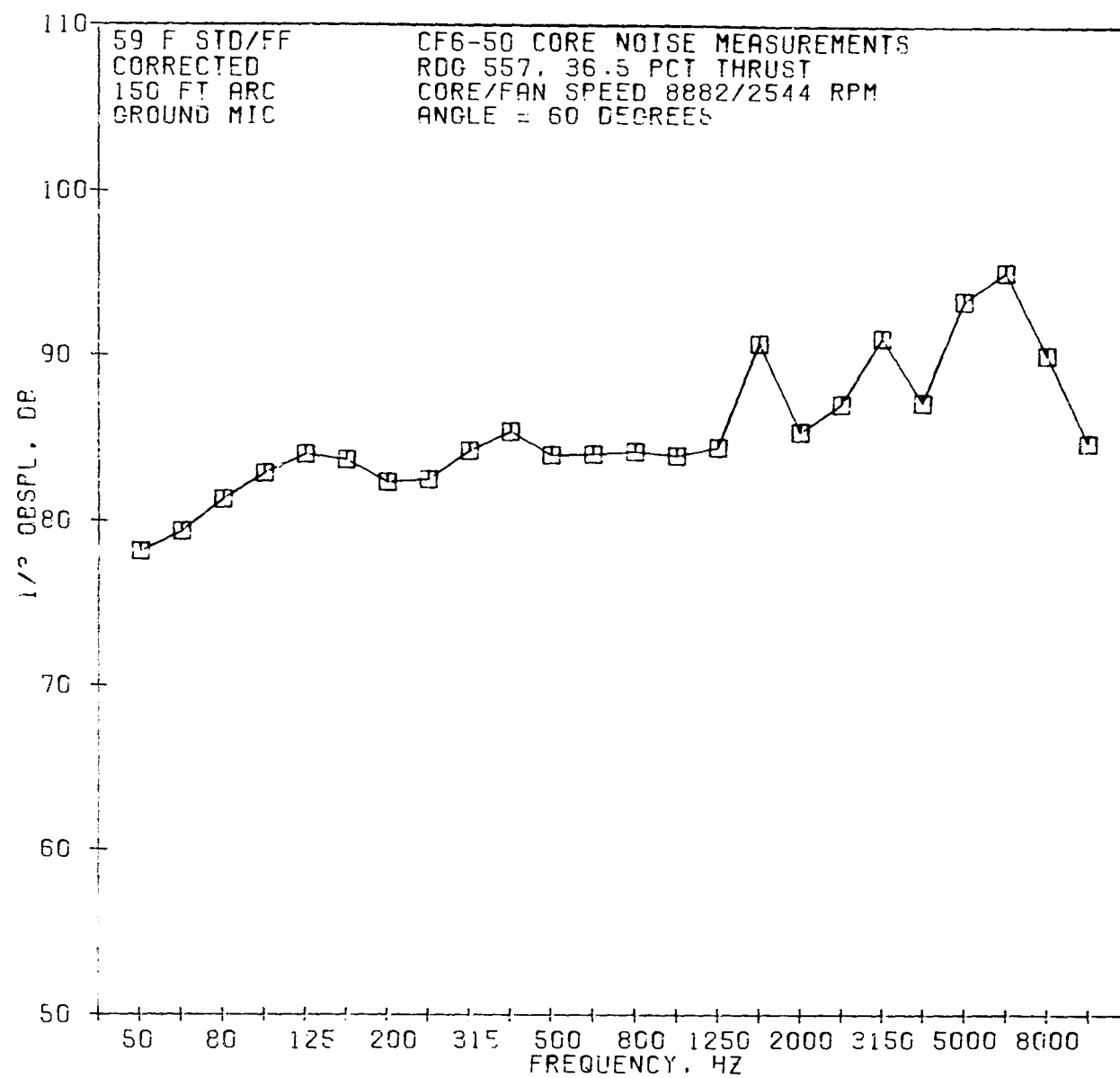
79 GILBERT J





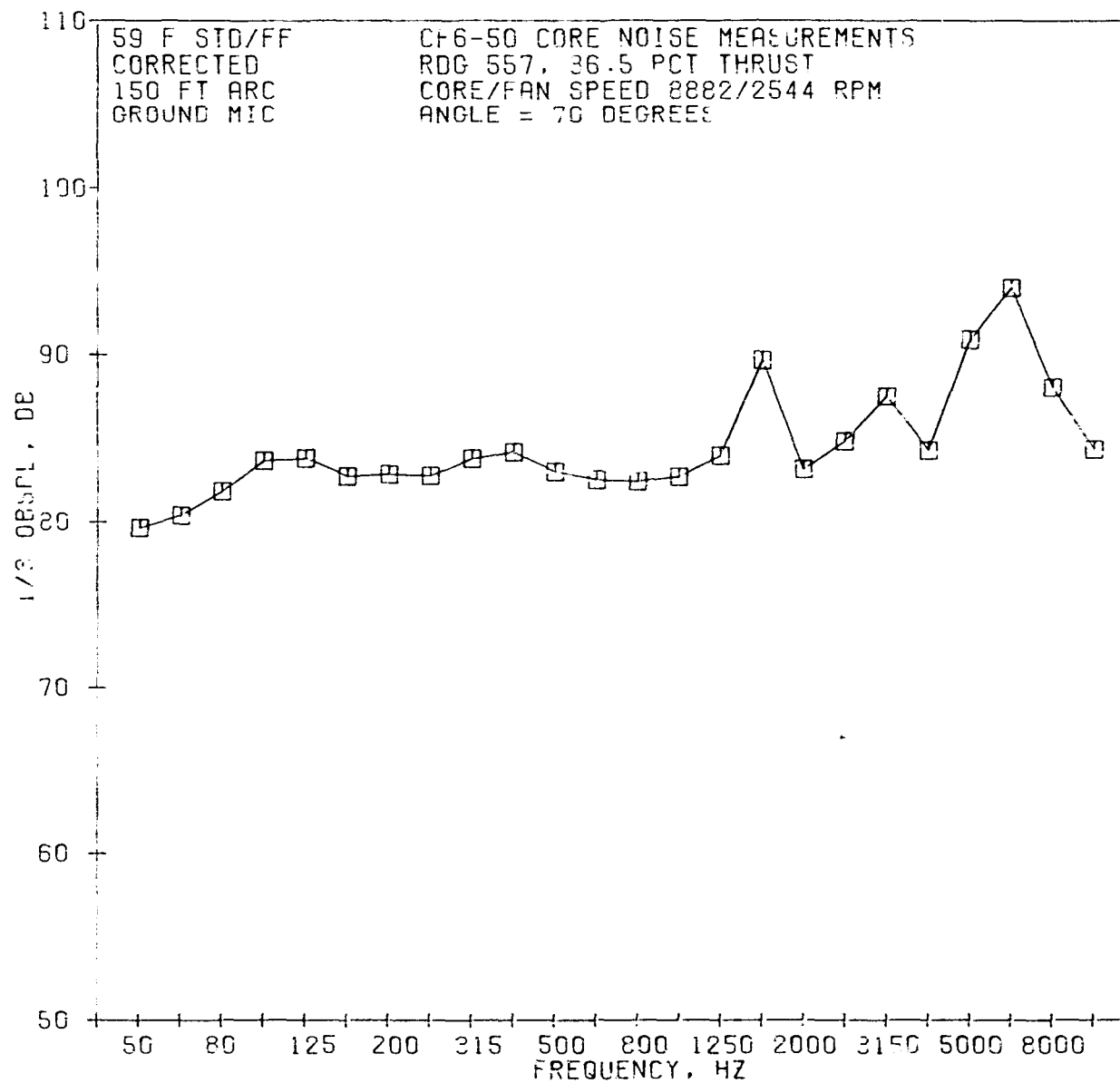
02/17/79
20124-001

79 GILBERT J



02/17/79
2G134-001

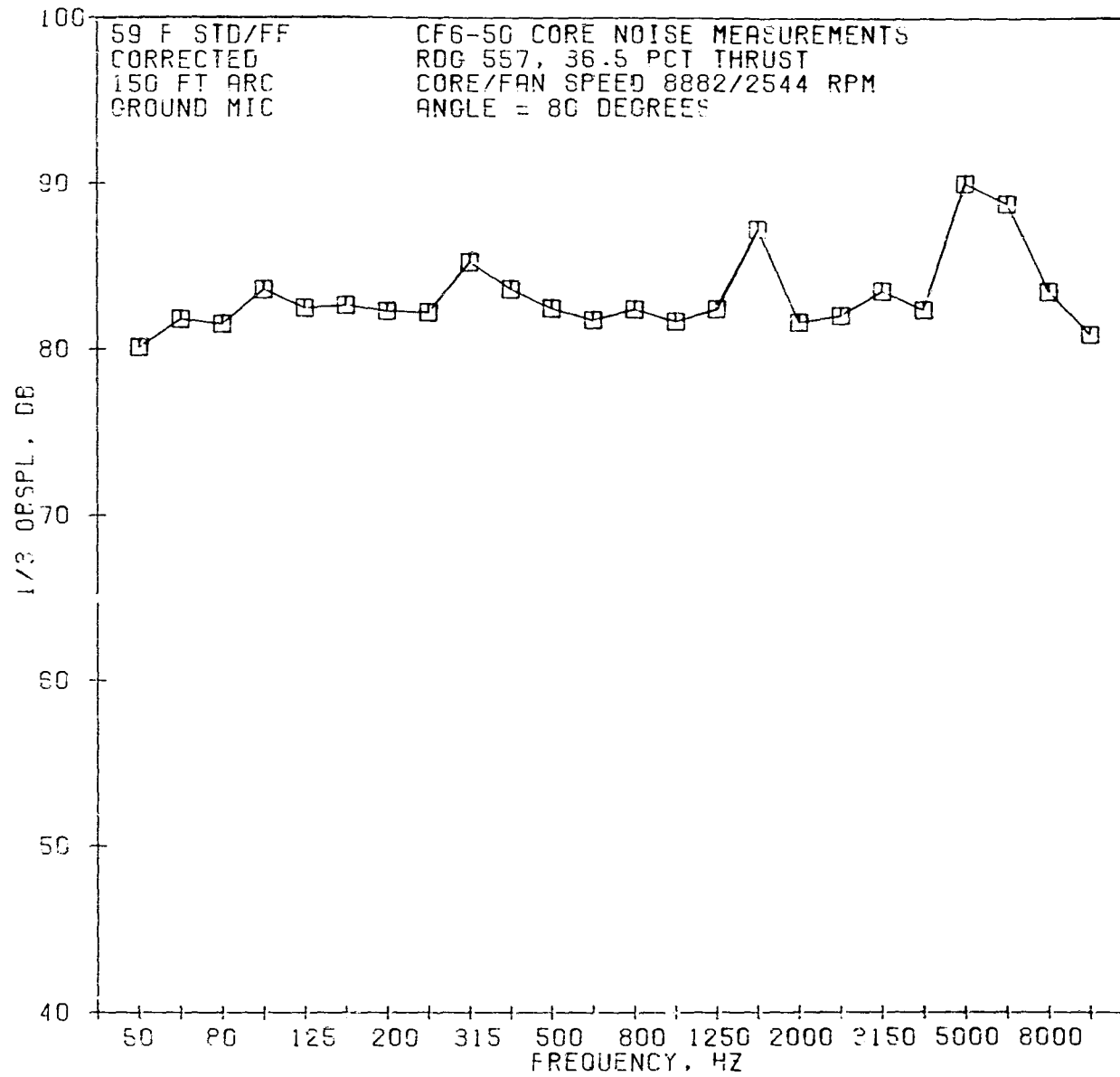
79 GILBERT J



285

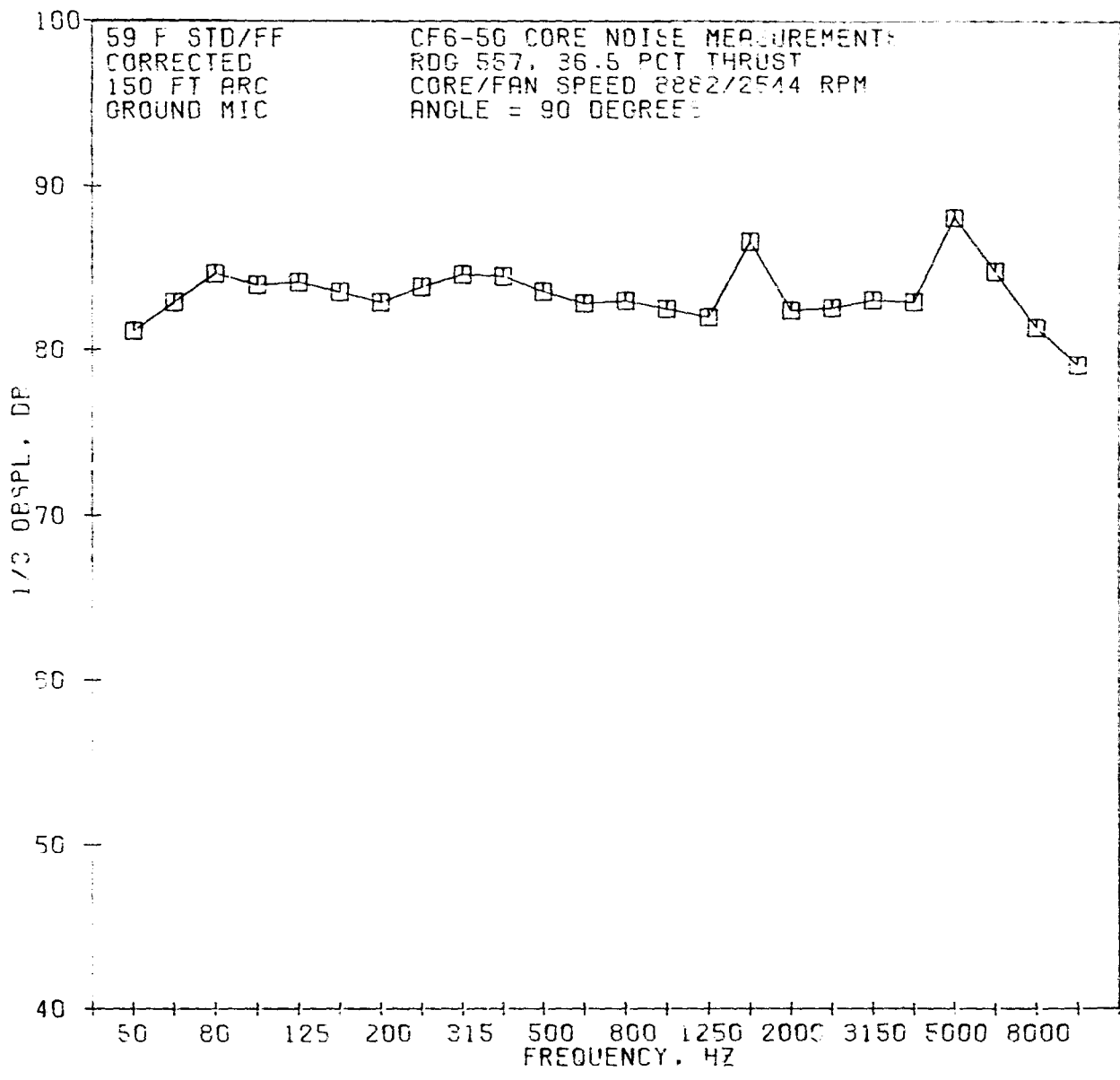
02/17/79
2G134-001

79 GILBERT J



02/17/79
2G134-001

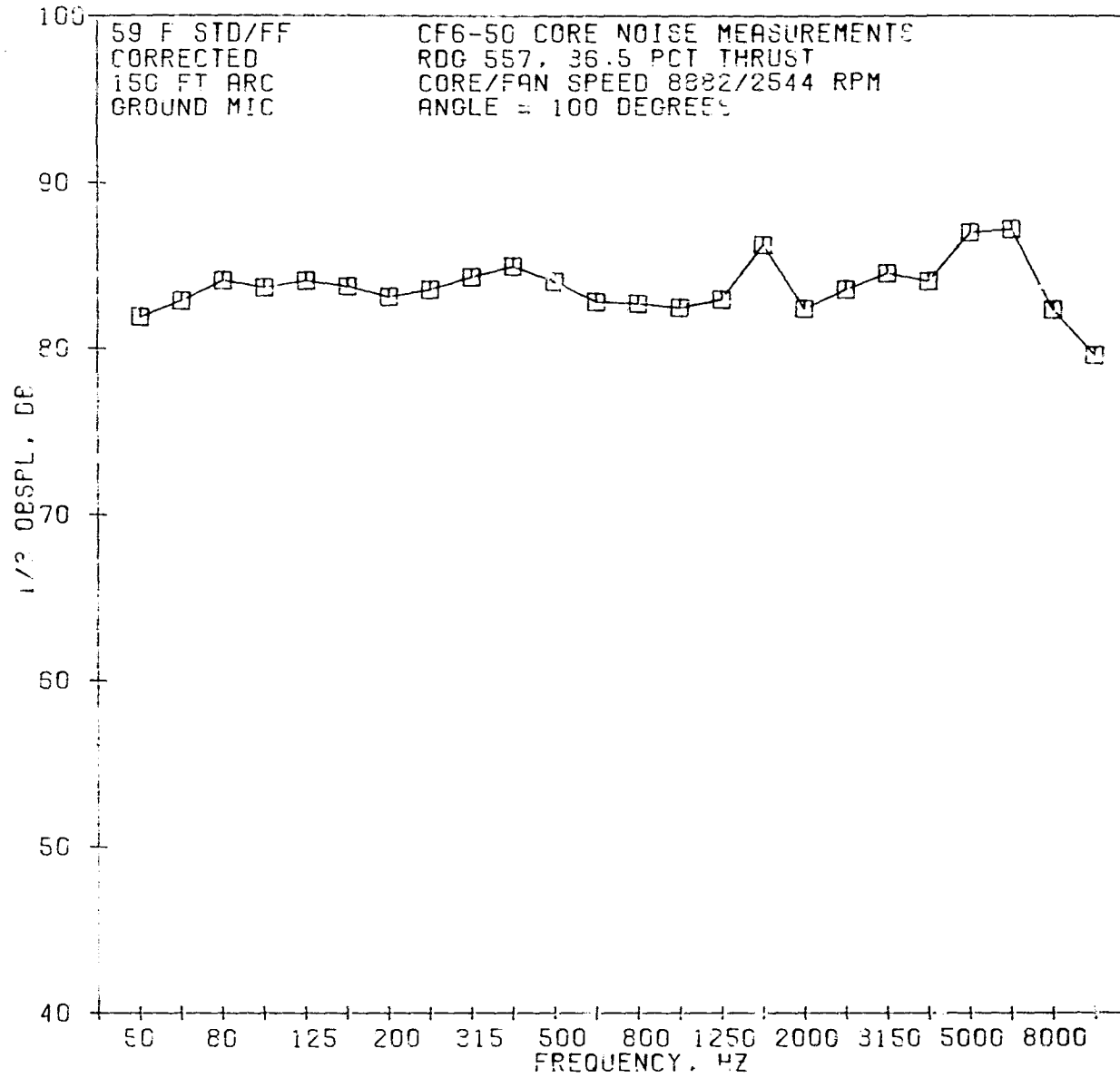
79 GILBERT



287

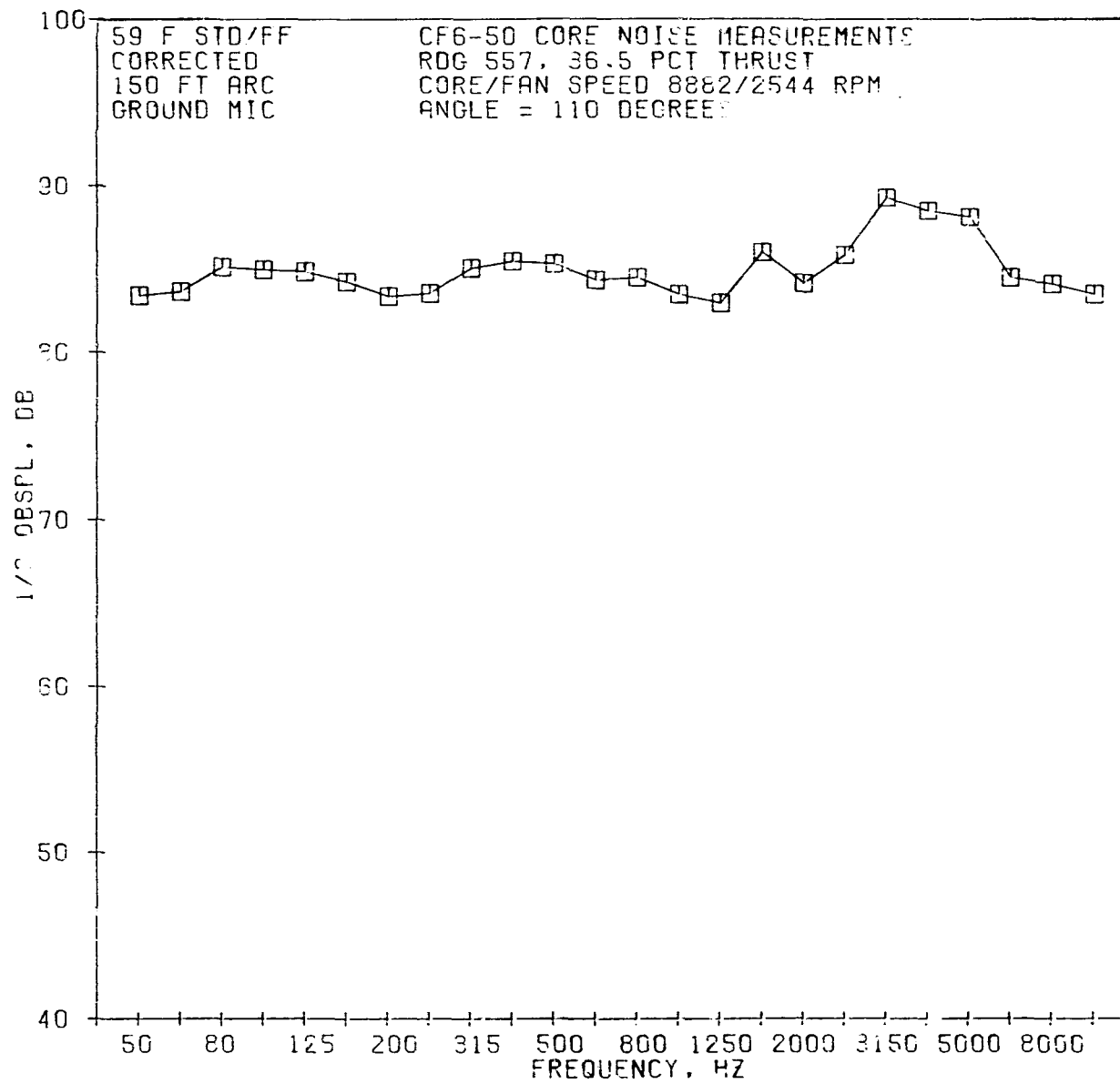
02/17/79
2G134-001

79 GILBERT J



02/17/79
20134-00i

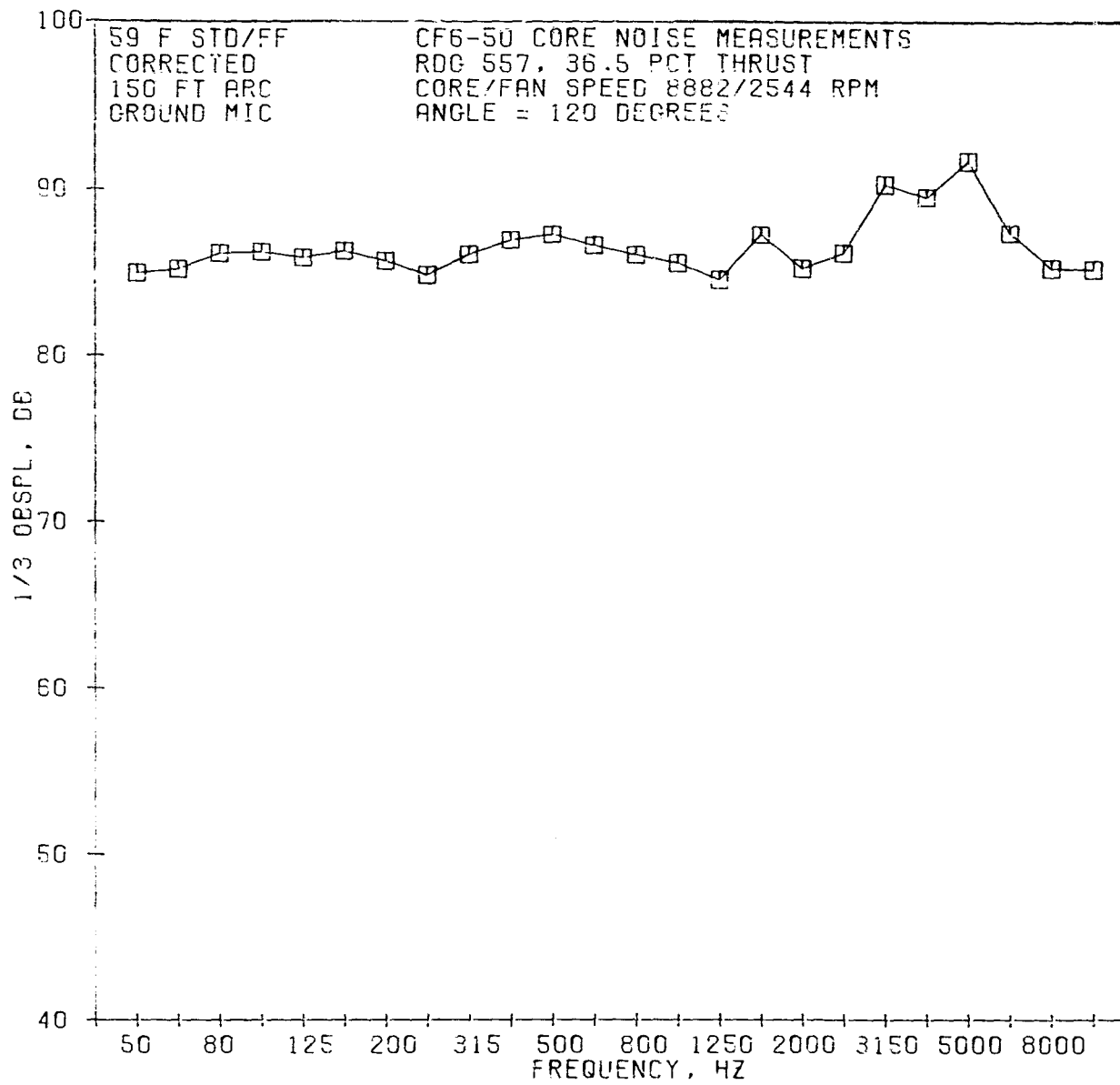
79 GILBERT J



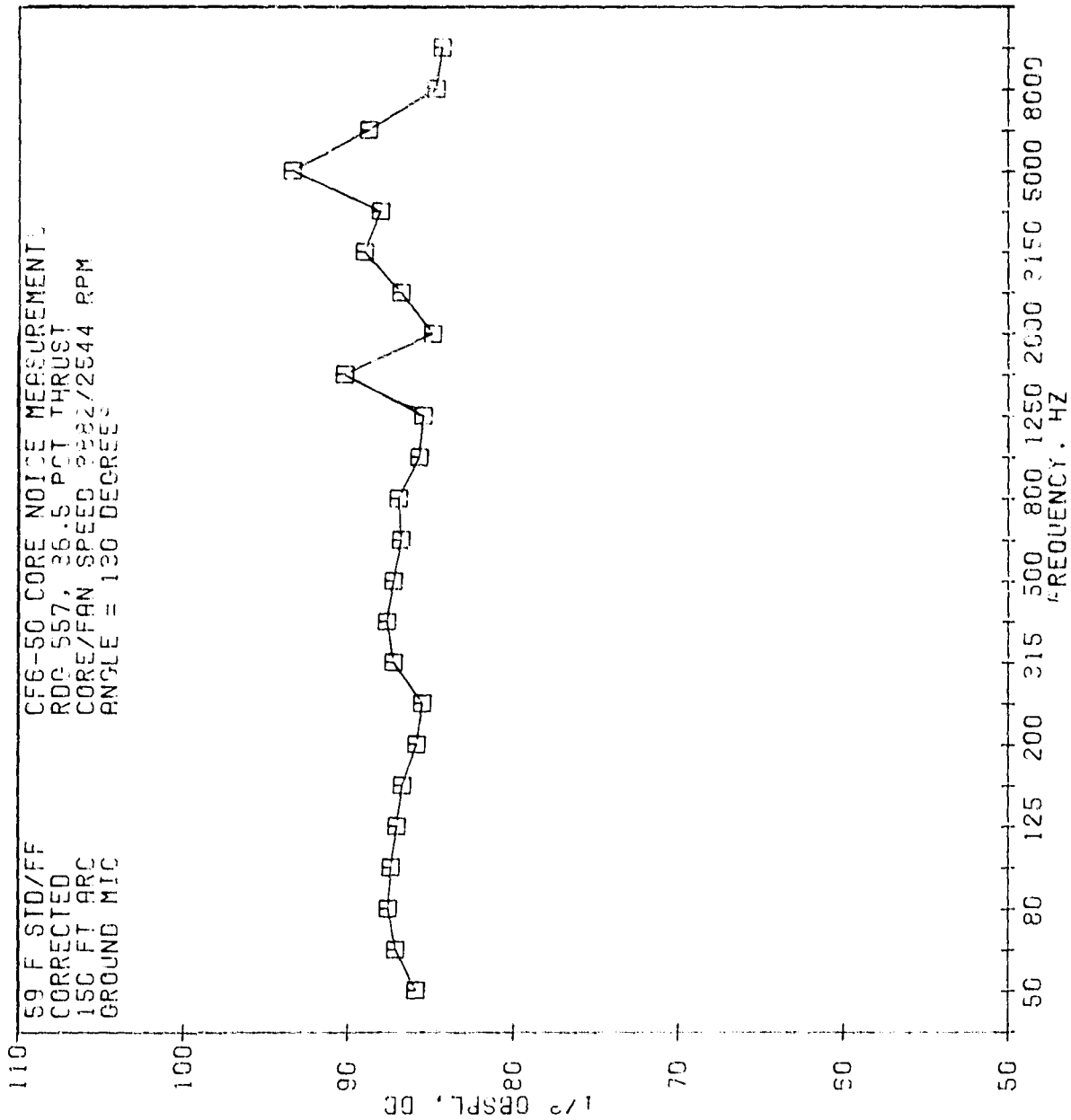
289

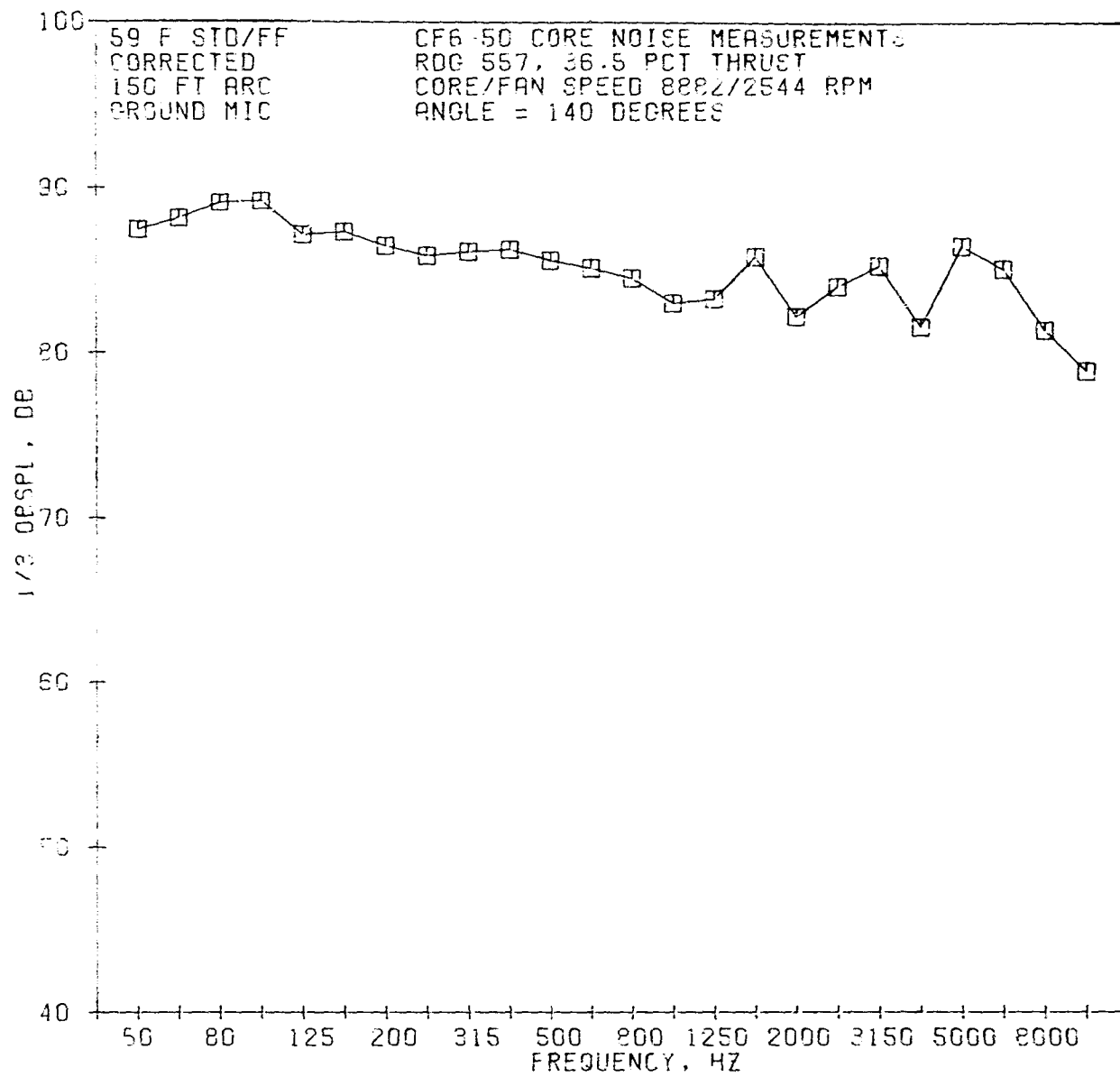
02/17/79
2G134-001

79 GILBERT J



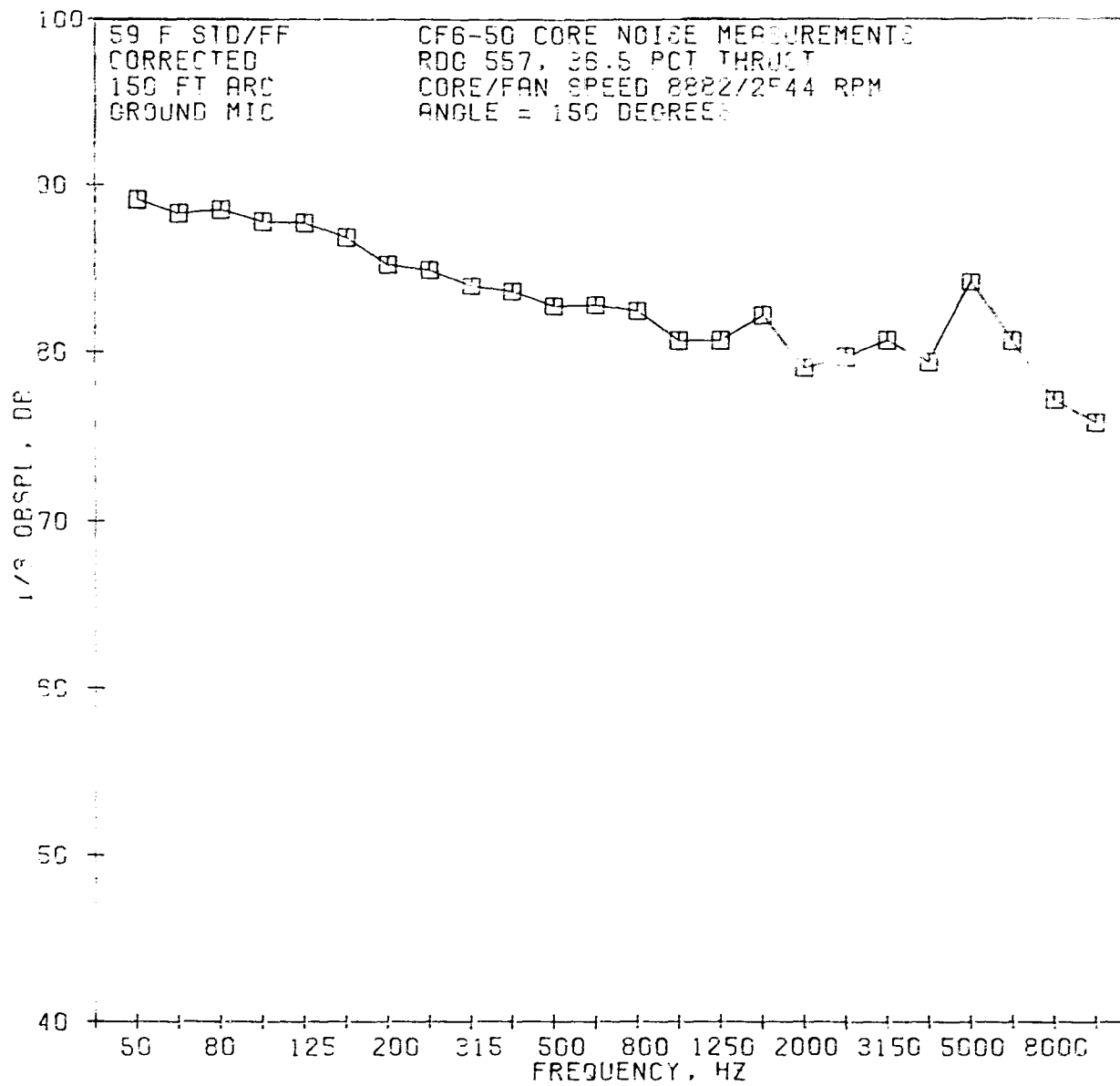
C-4





02/17/79
20104-001

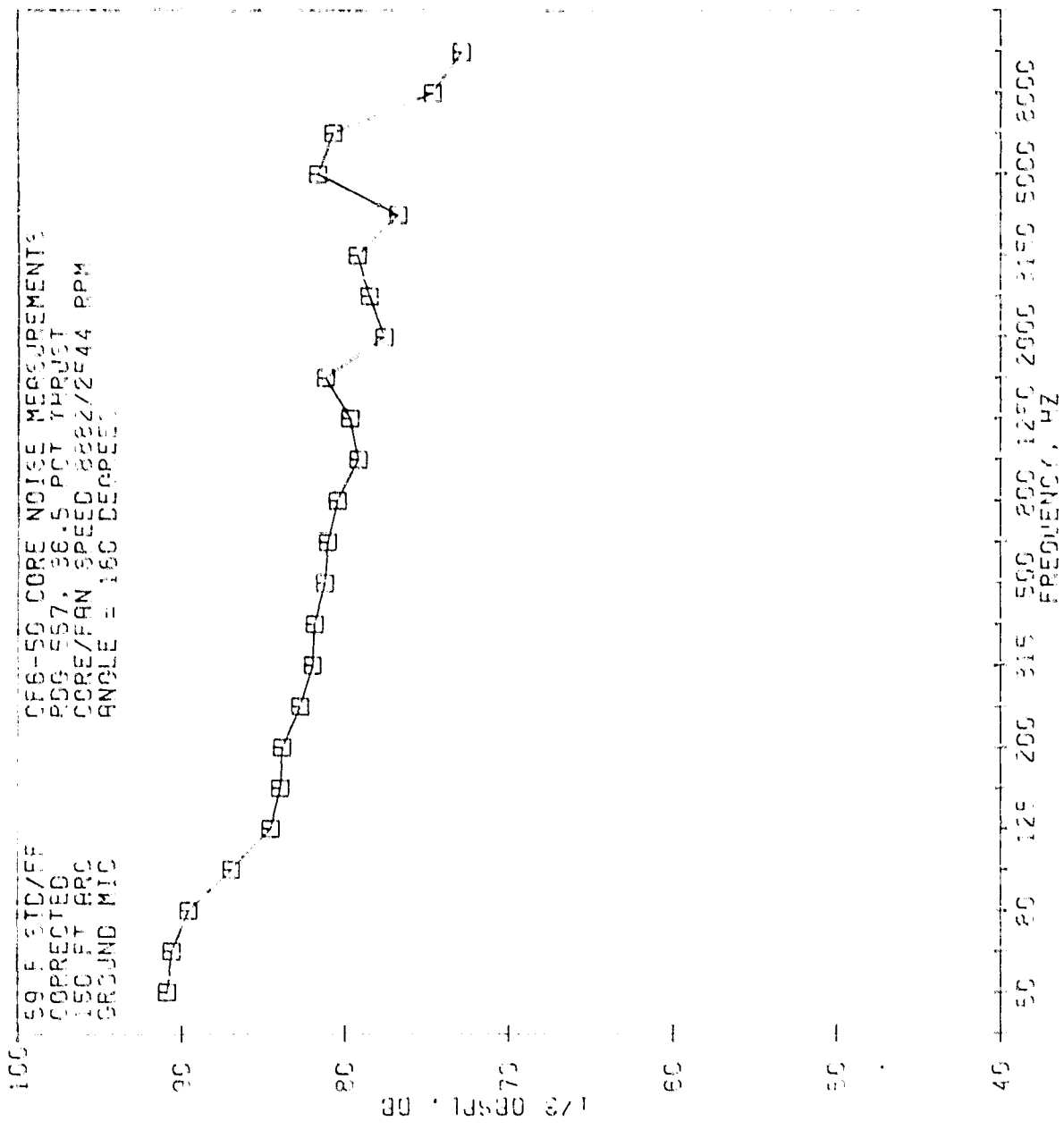
79 GILBERT



293

G2/17/79
2G124-001

79 GILBERT J

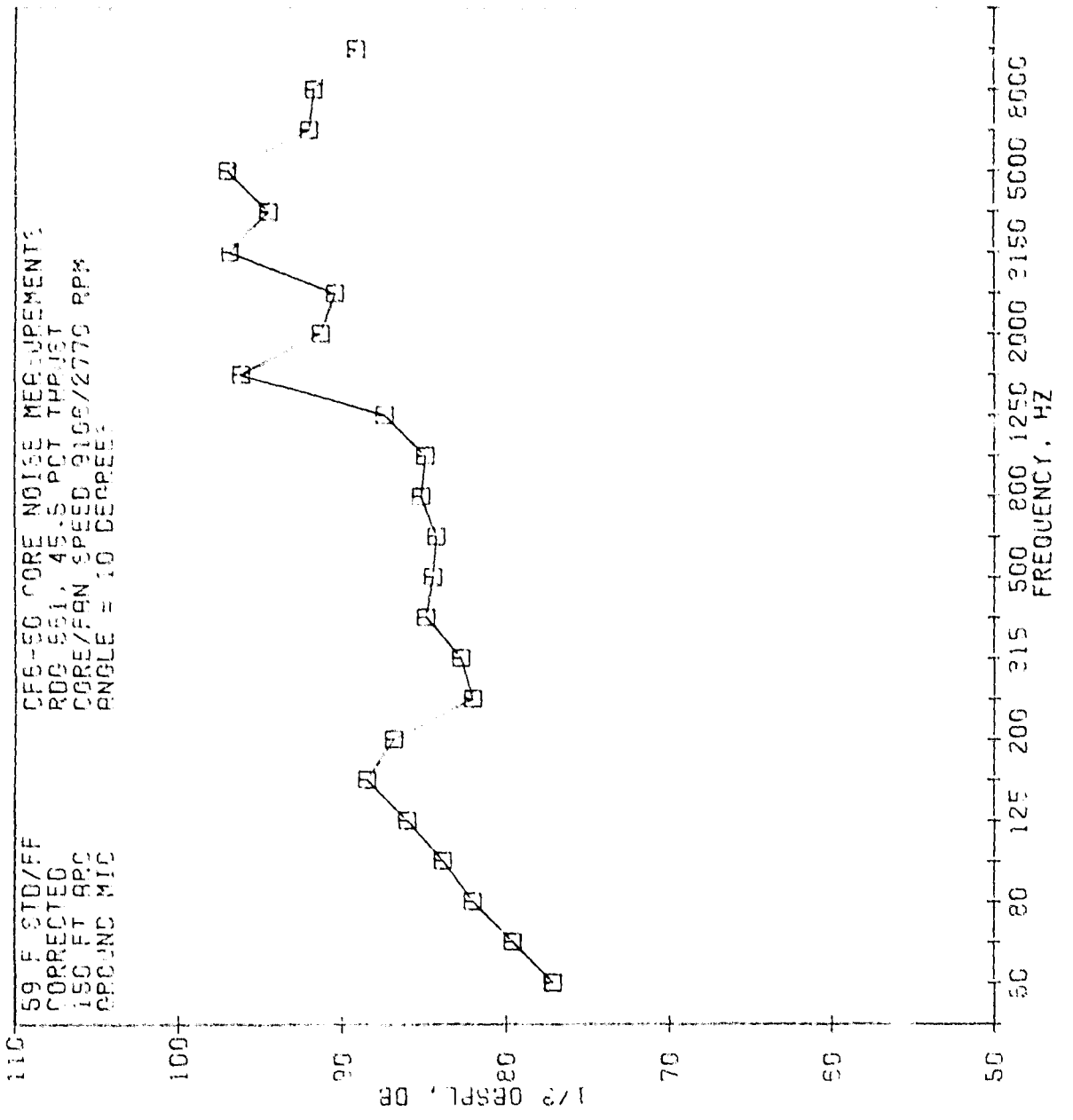


52/1779
2014-50

73 GILBERT J

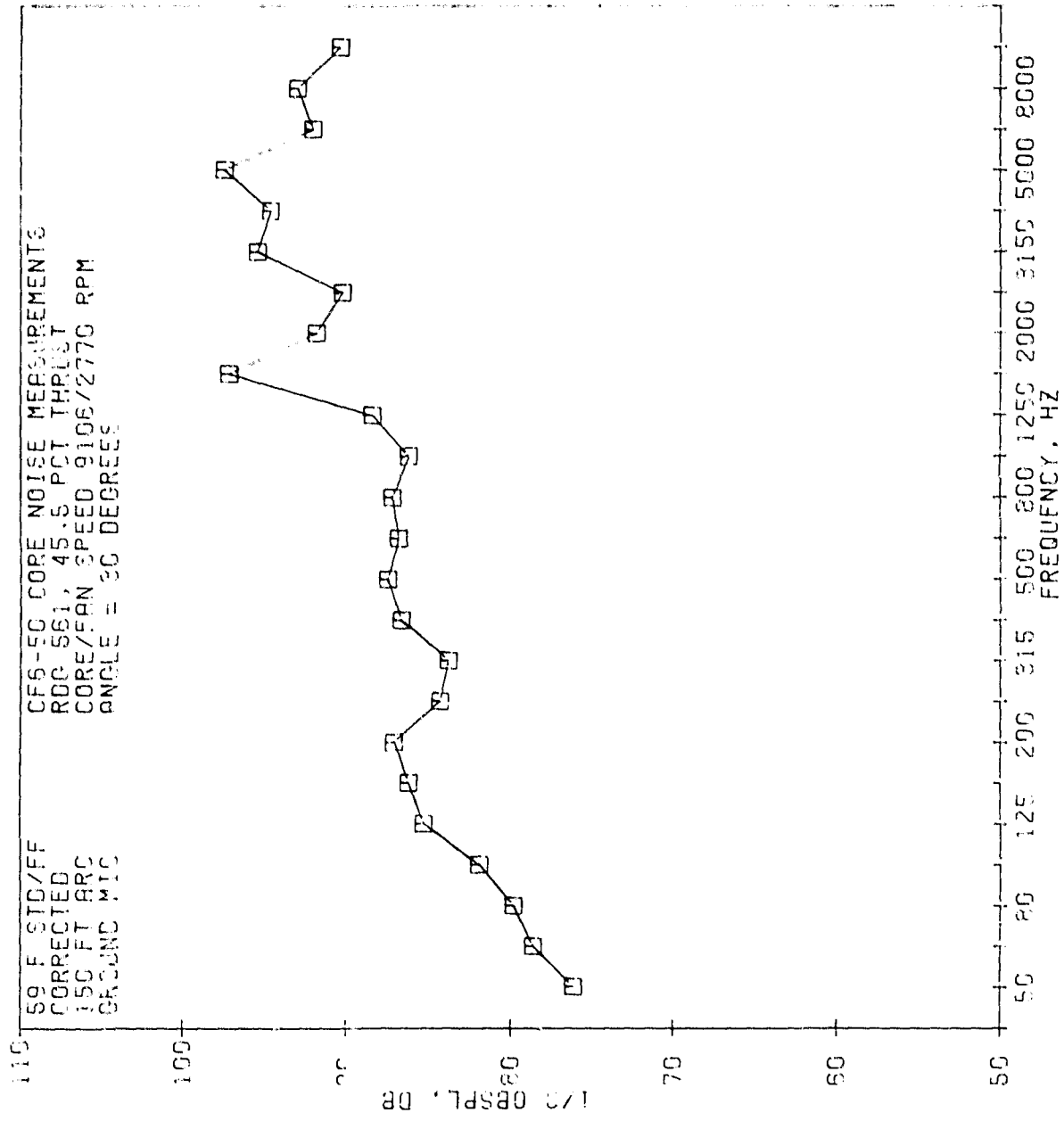
59 F. STD/FF
 CORRECTED
 150 FT APC
 GROUND MIC

CFS-50 CORE NOISE MEASUREMENTS
 RDC 551, 45.5 PCT THRUST
 CORE/FAN SPEED 9100/2770 RPM
 ANGLE = 10 DEGREE



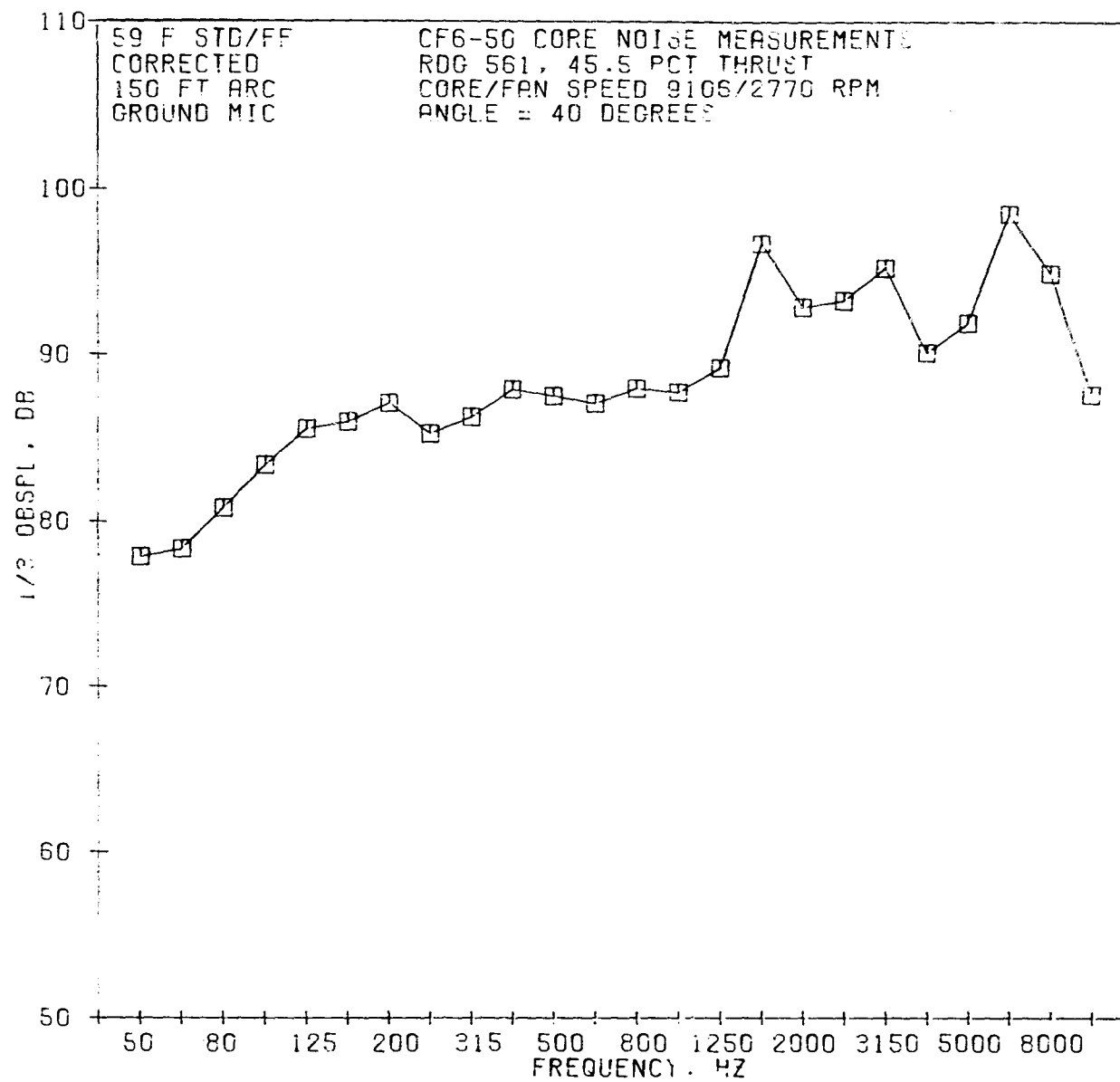
02/17/72
 26124-001

79 GILBERT J



02/17/79
20134-001

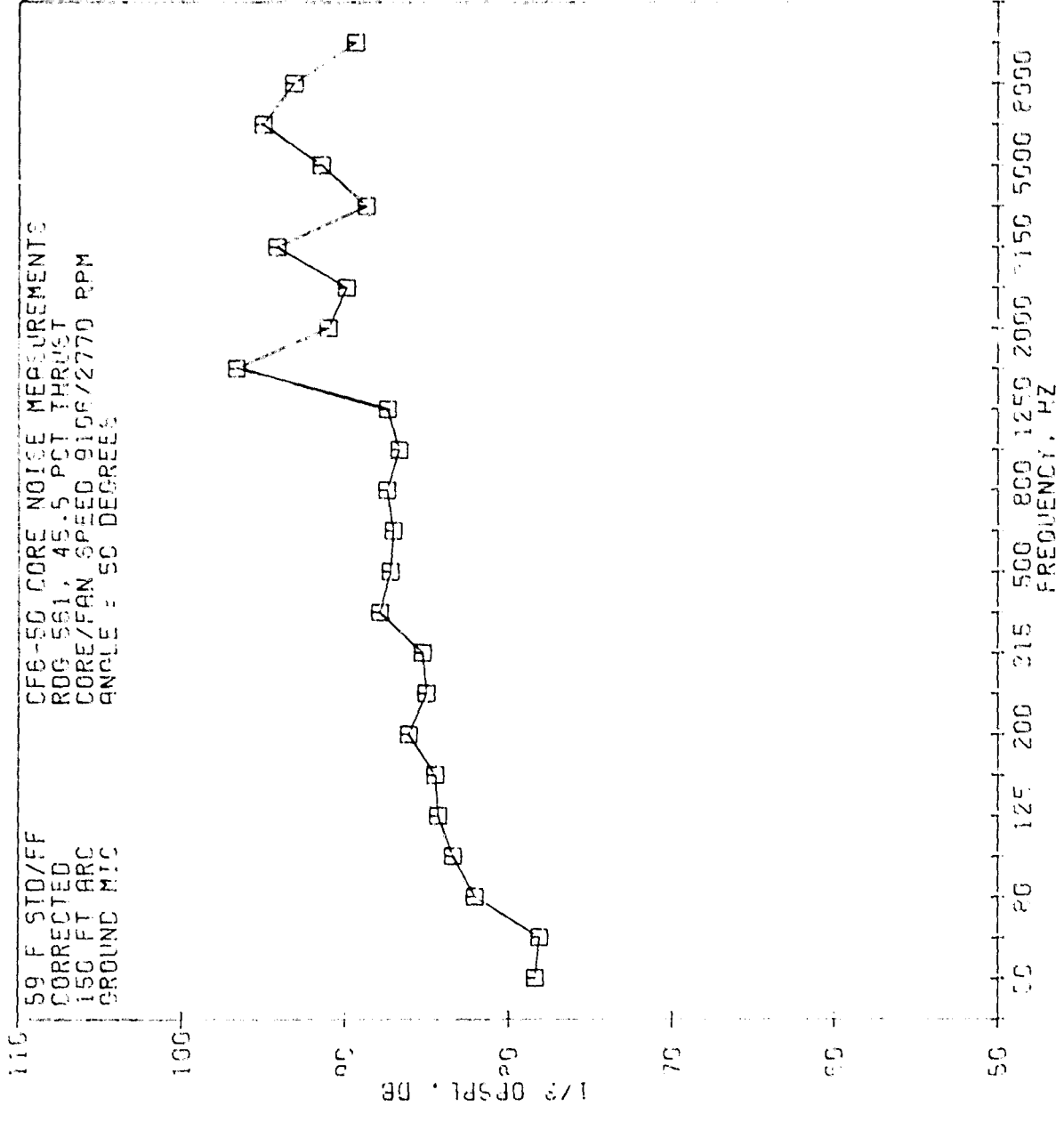
79 GILBERT J



297

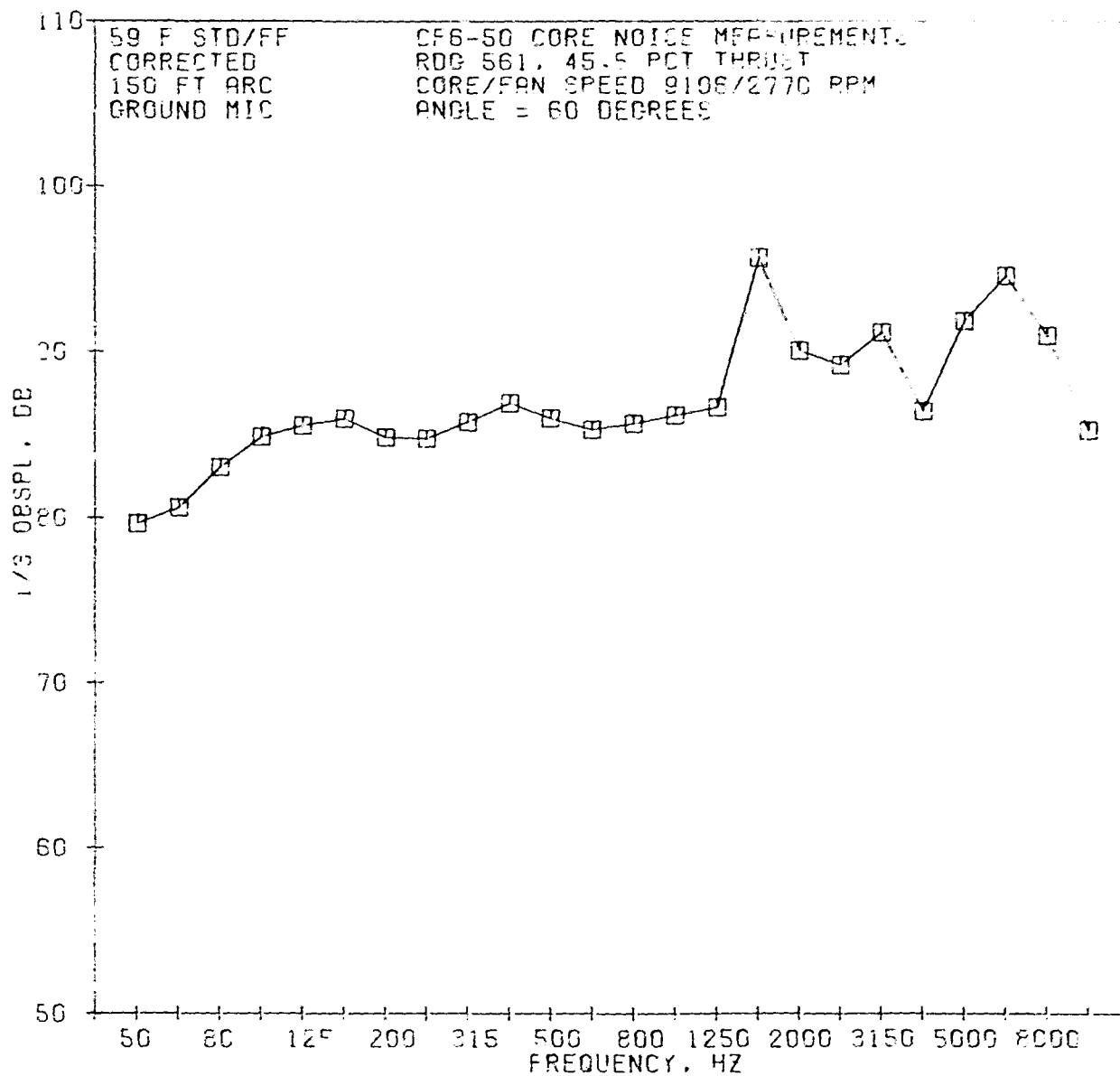
02/17/79
23134-001

79 GILBERT J



02/17/79
26124-001

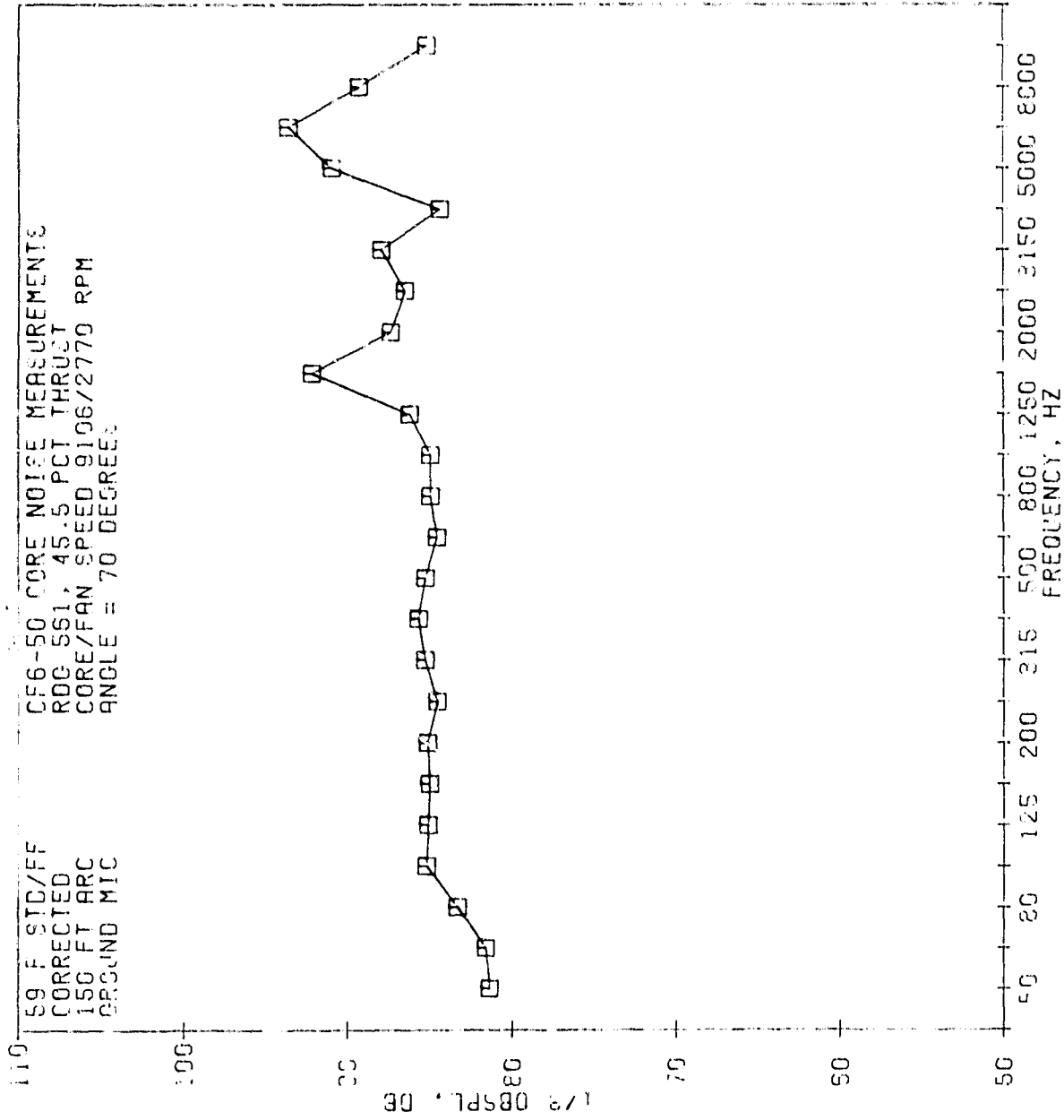
73 GILBERT

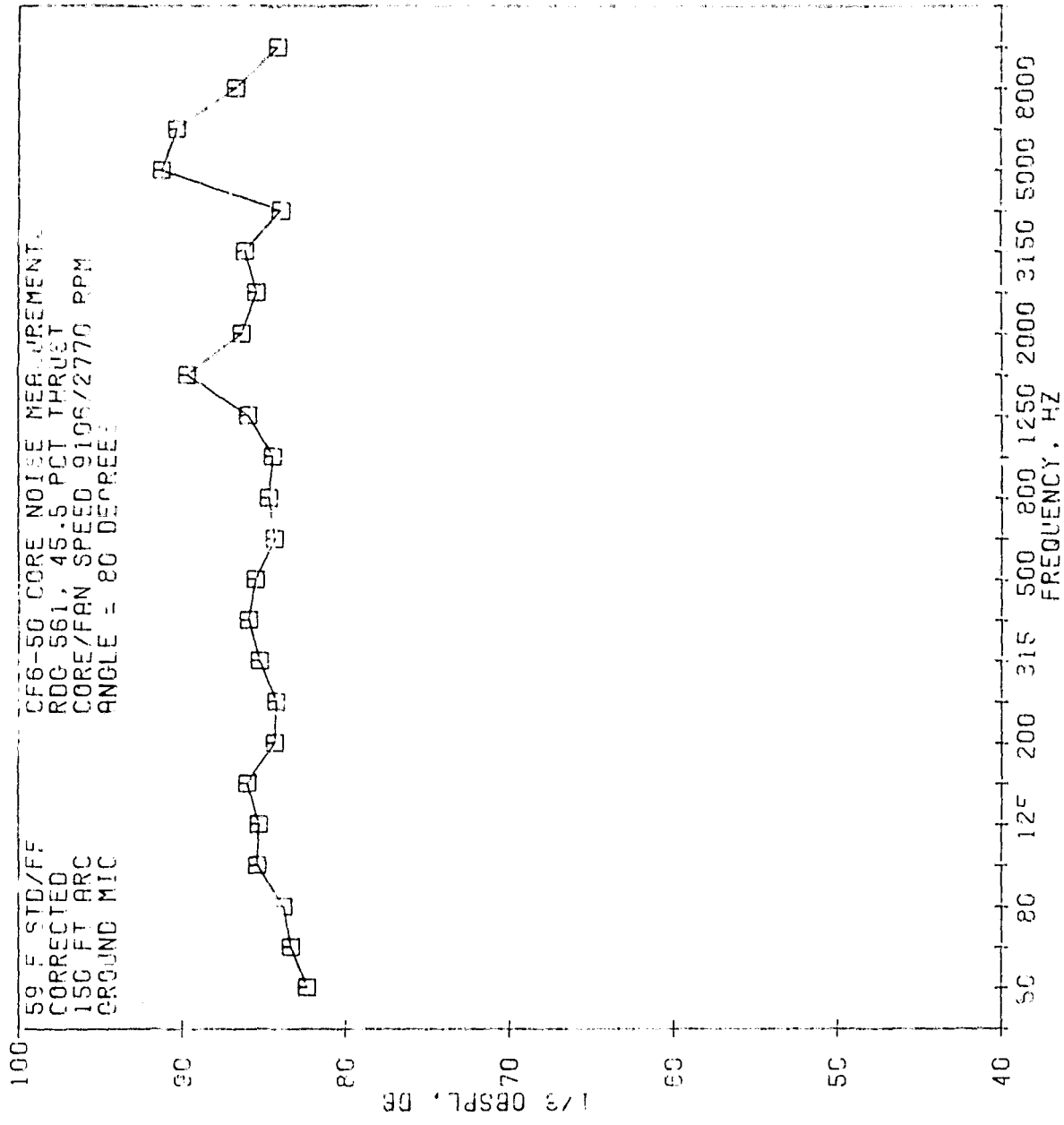


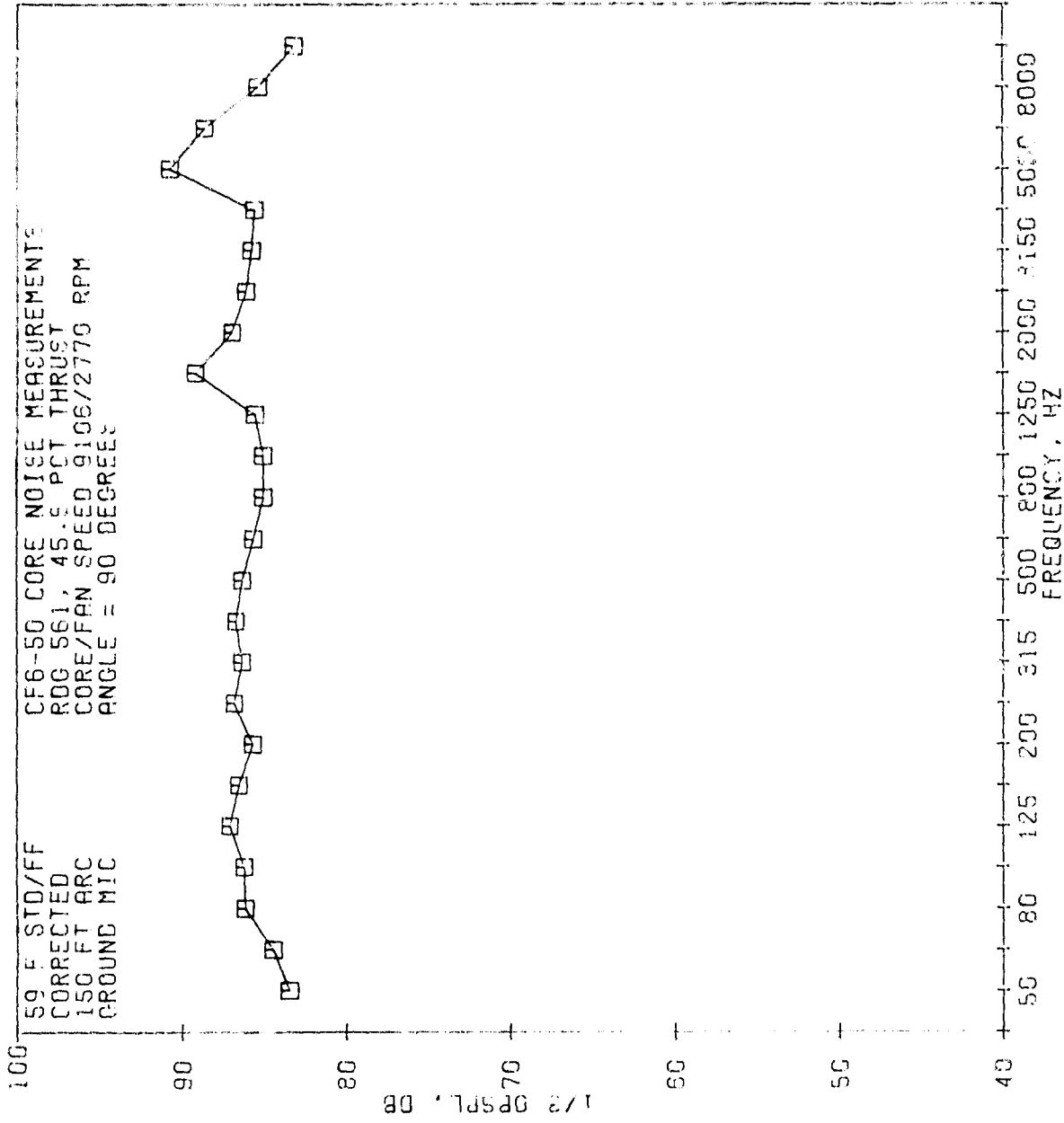
299

02/17/73
20134-001

79 GILBERT J

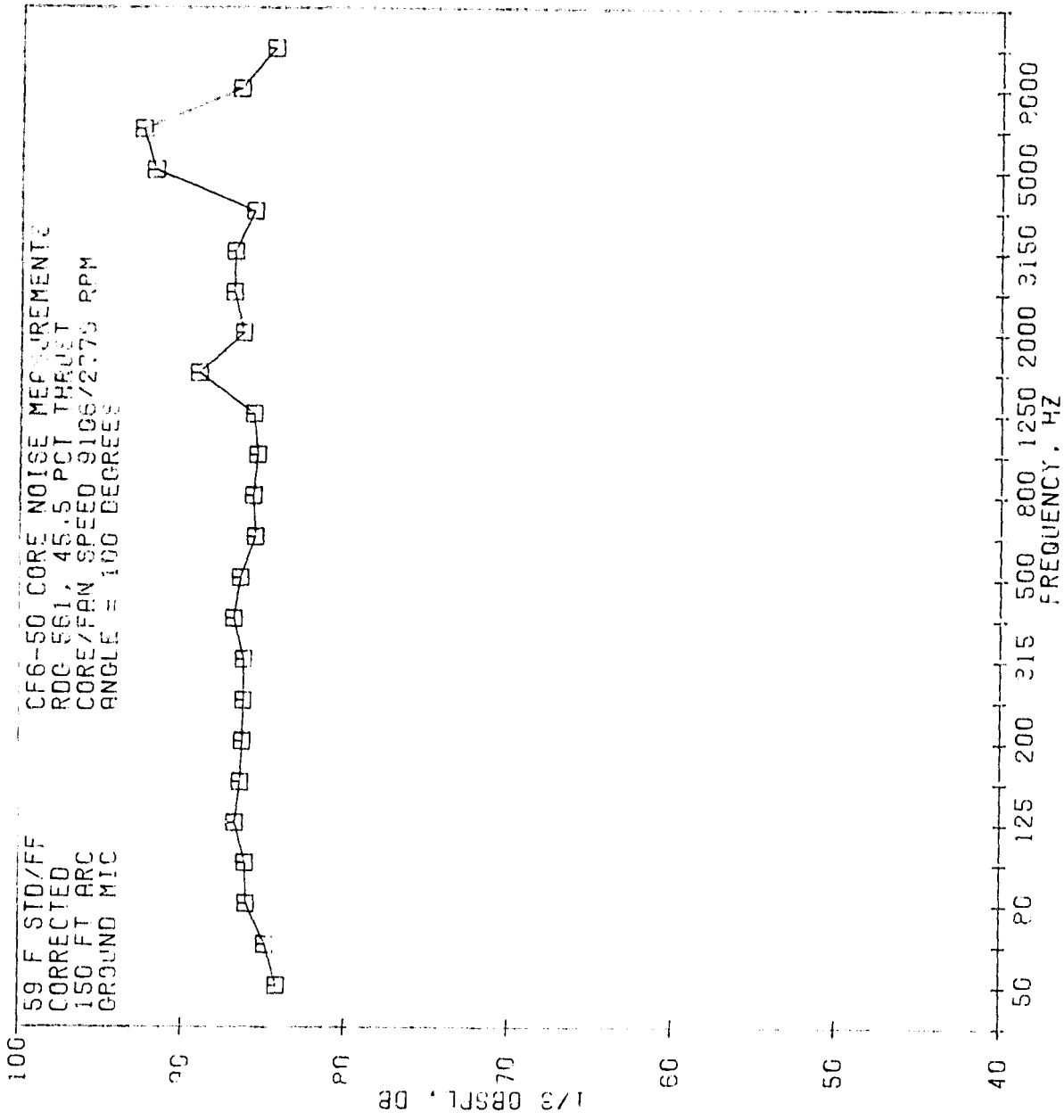






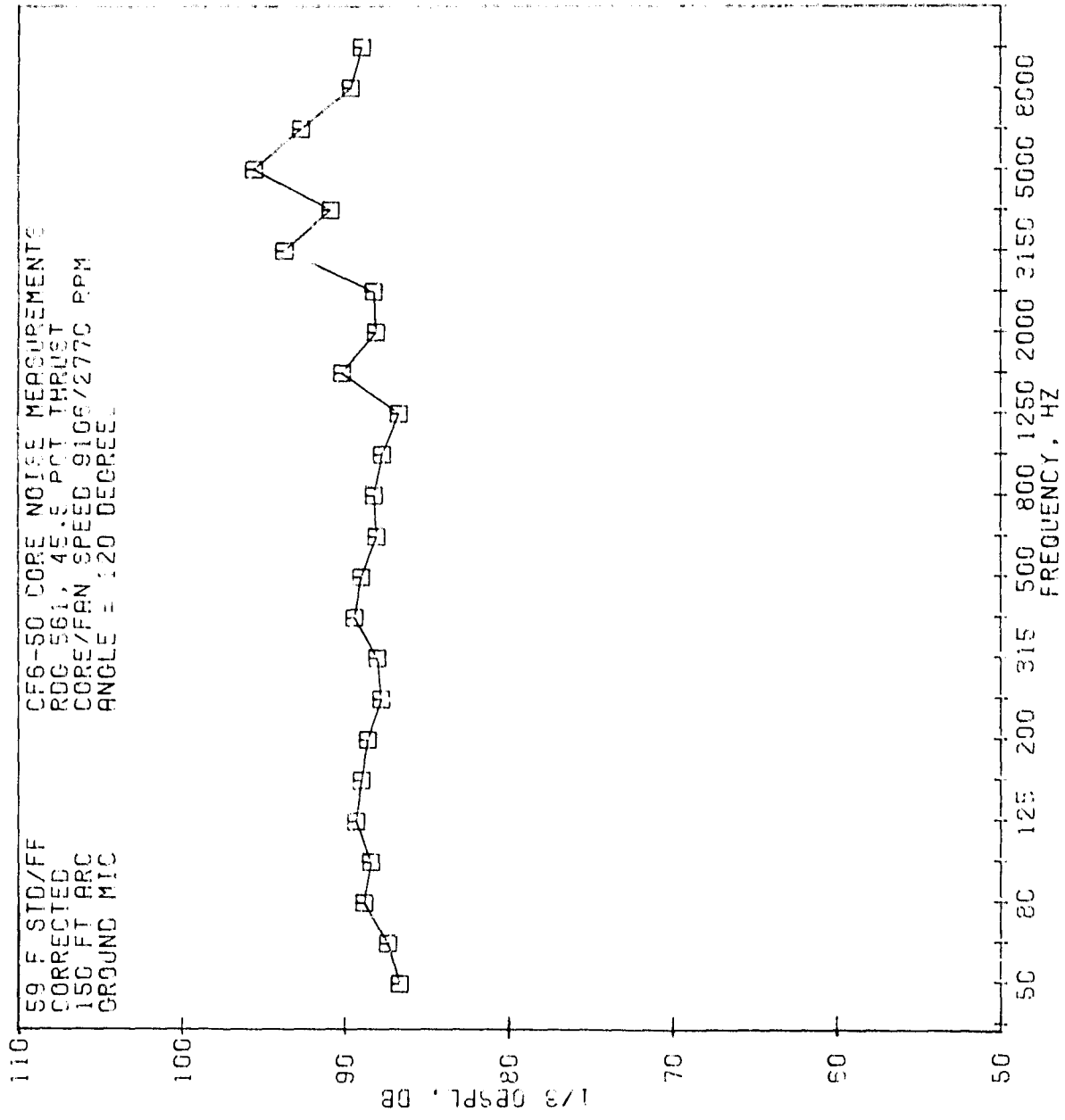
02/17/79
20124-001

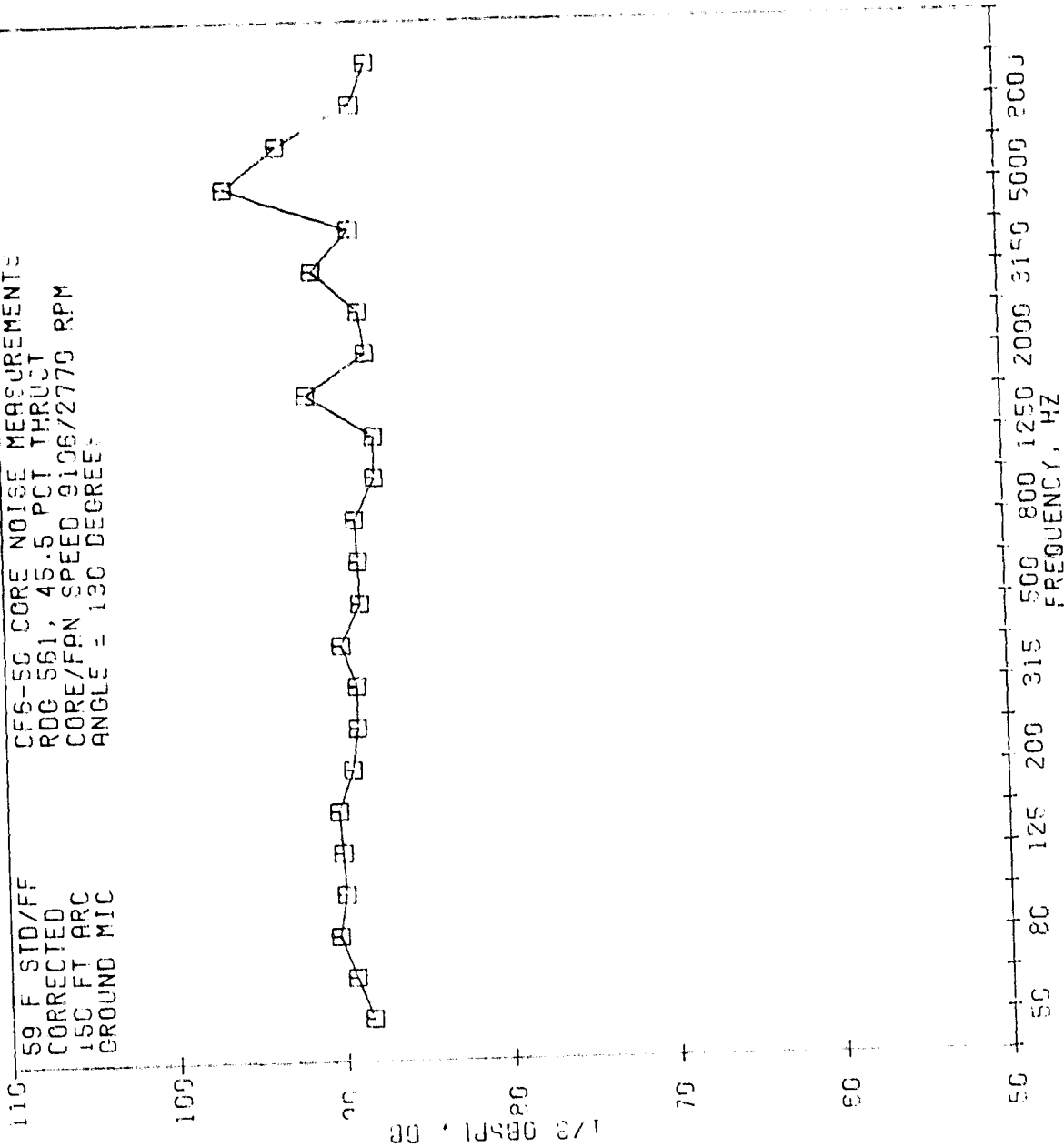
79 GILBERT I



02/17/79
26134-001

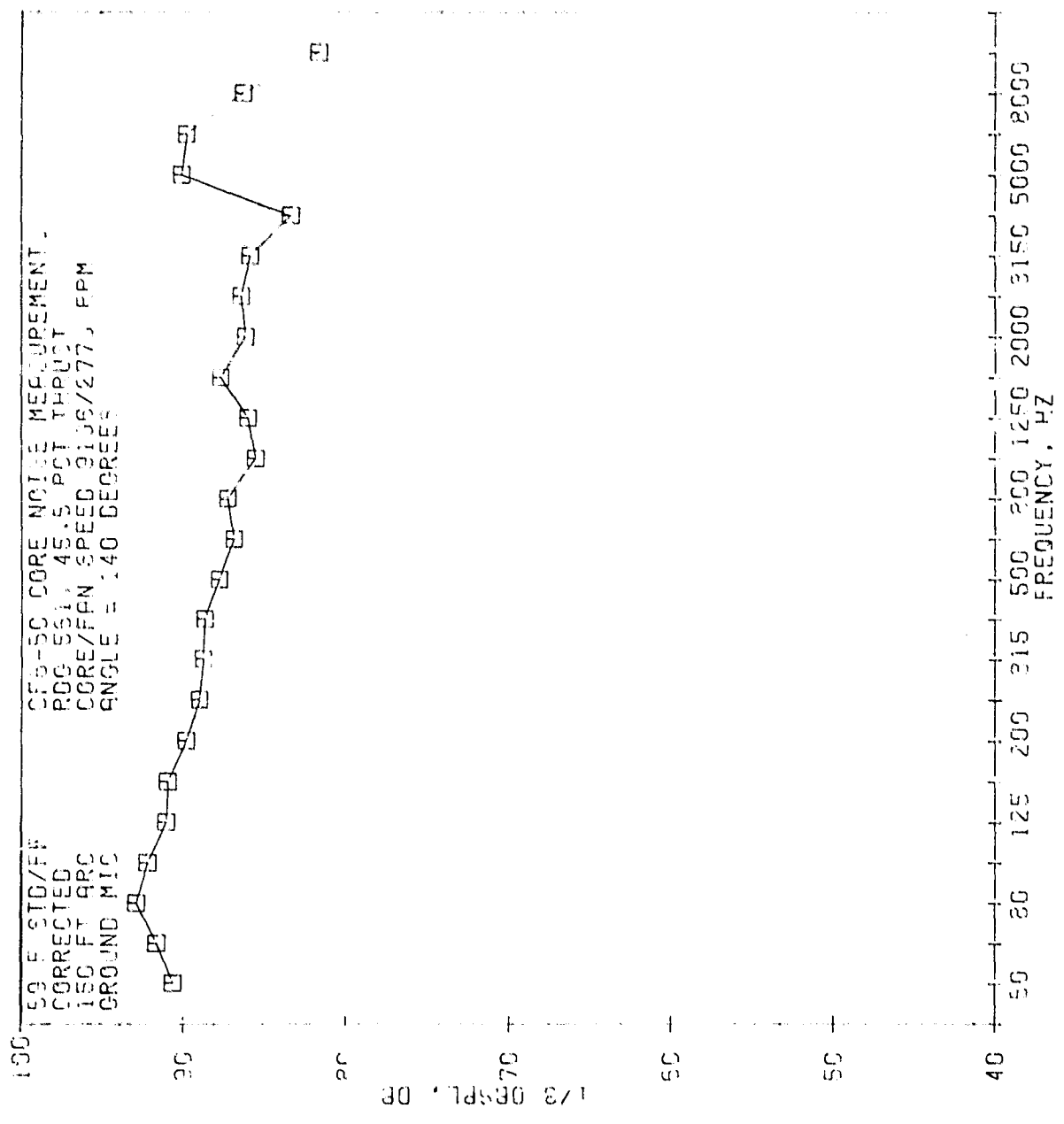
79 GILBERT J

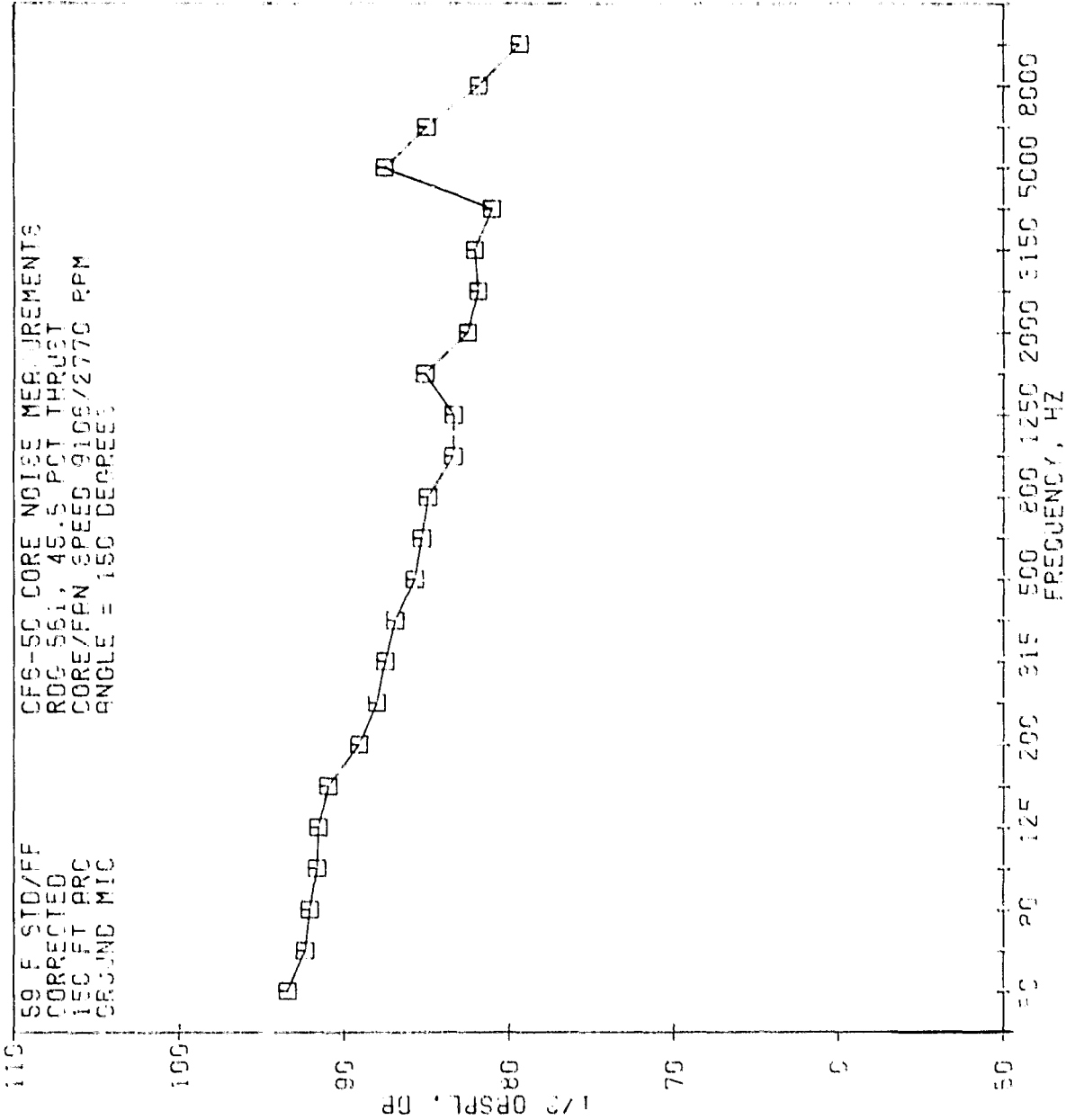




02/17/79
29124-001

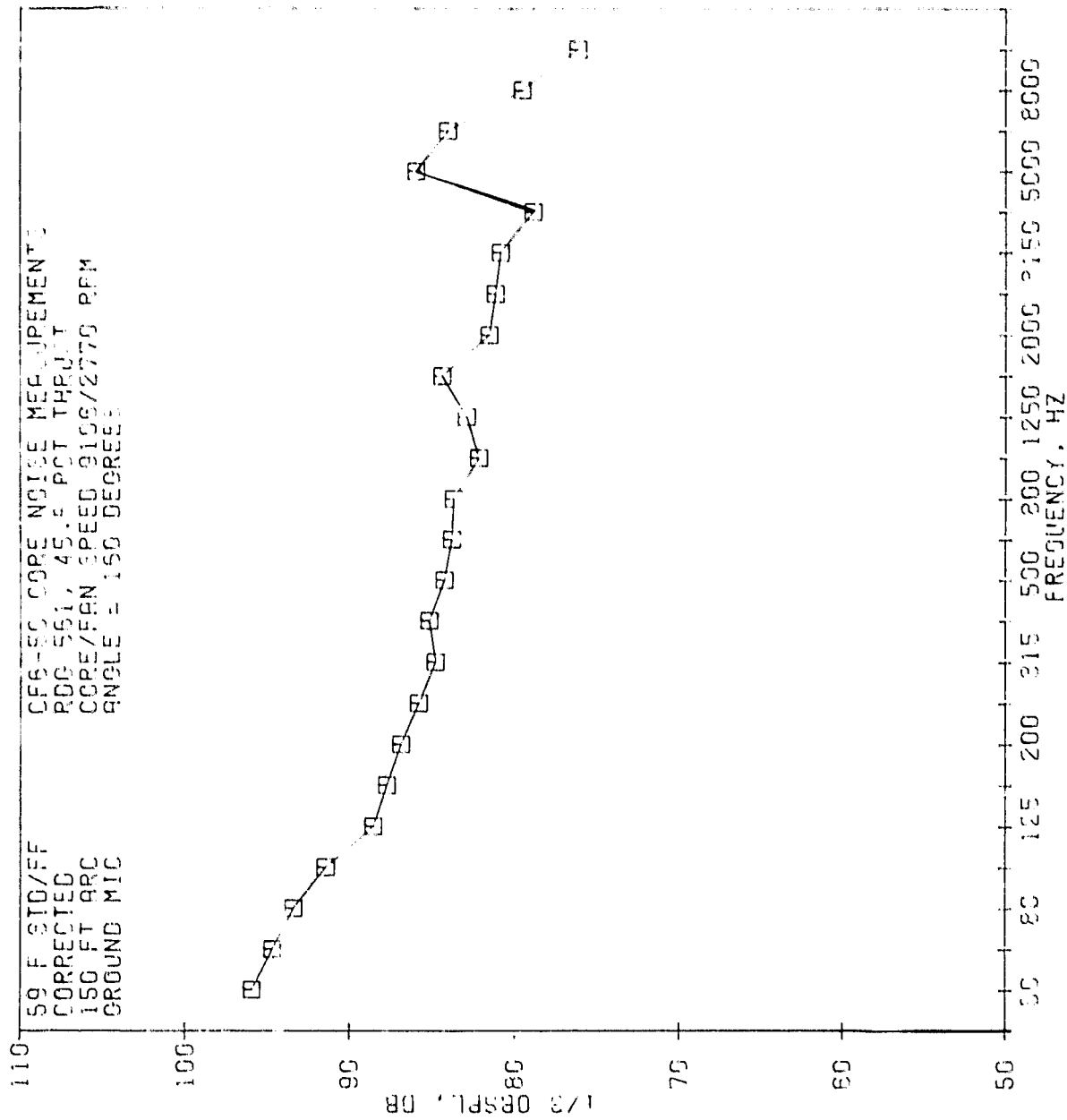
79 GILBERT 1





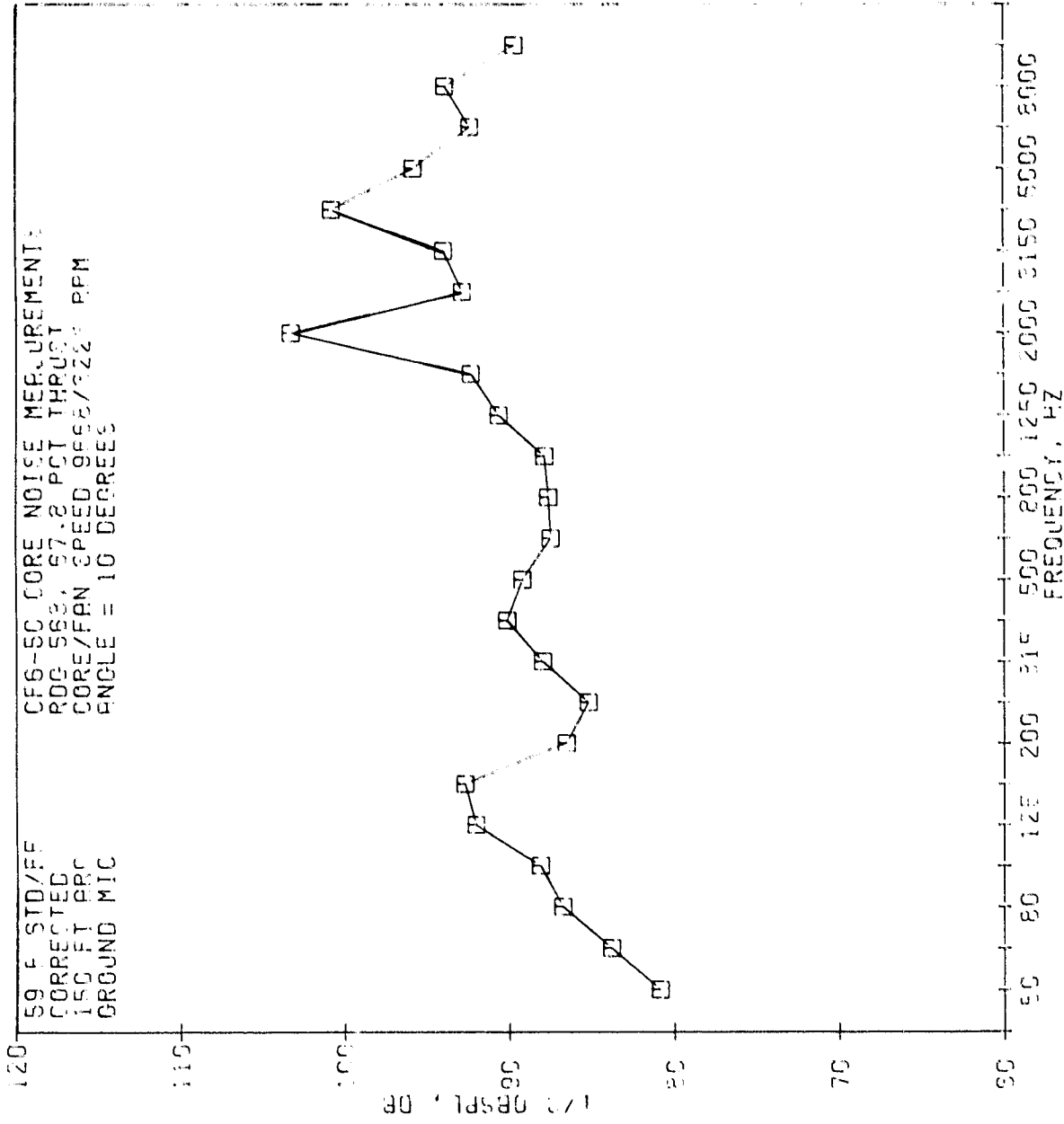
64/17/73
 26124-001

75 GILBERT



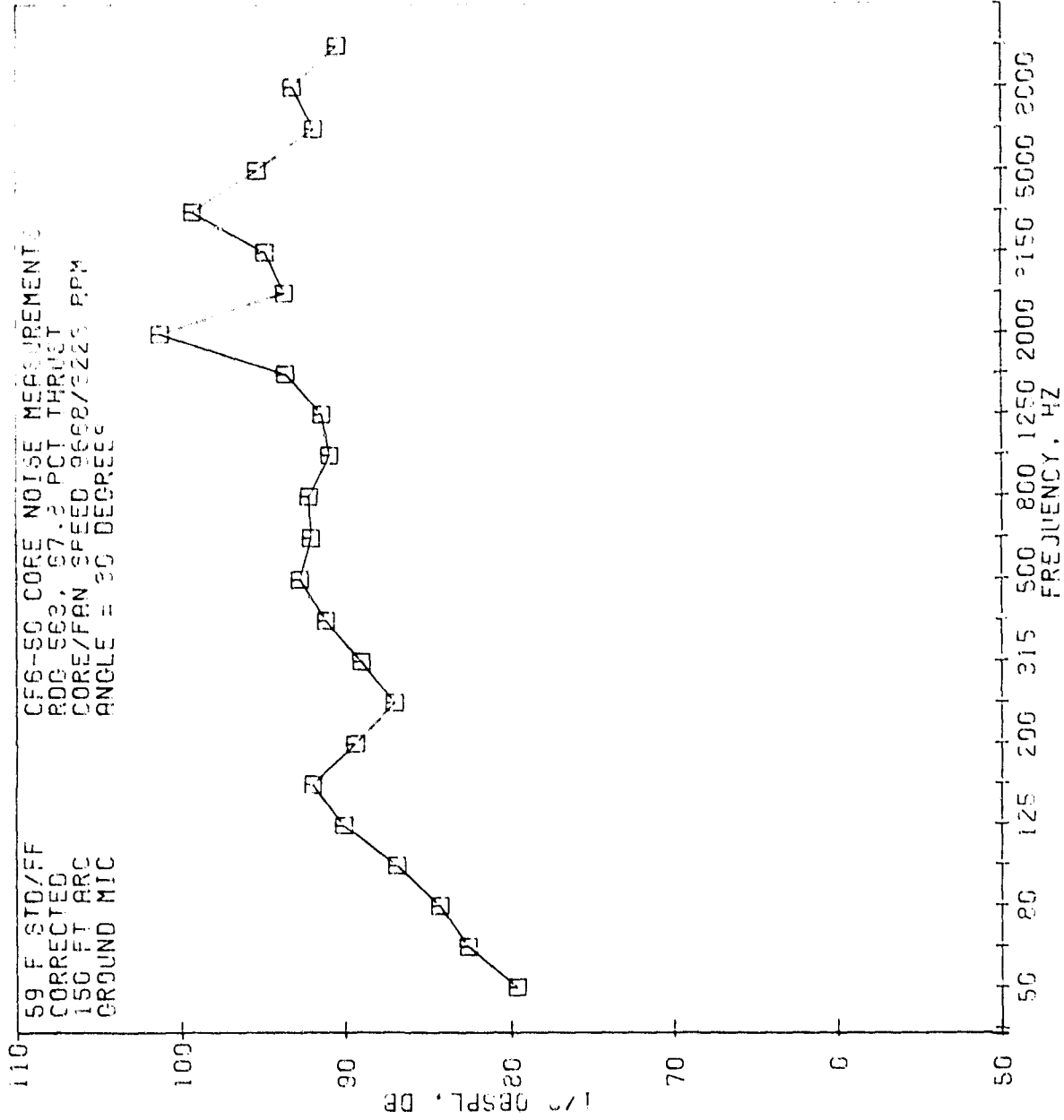
02/17/9
26124-001

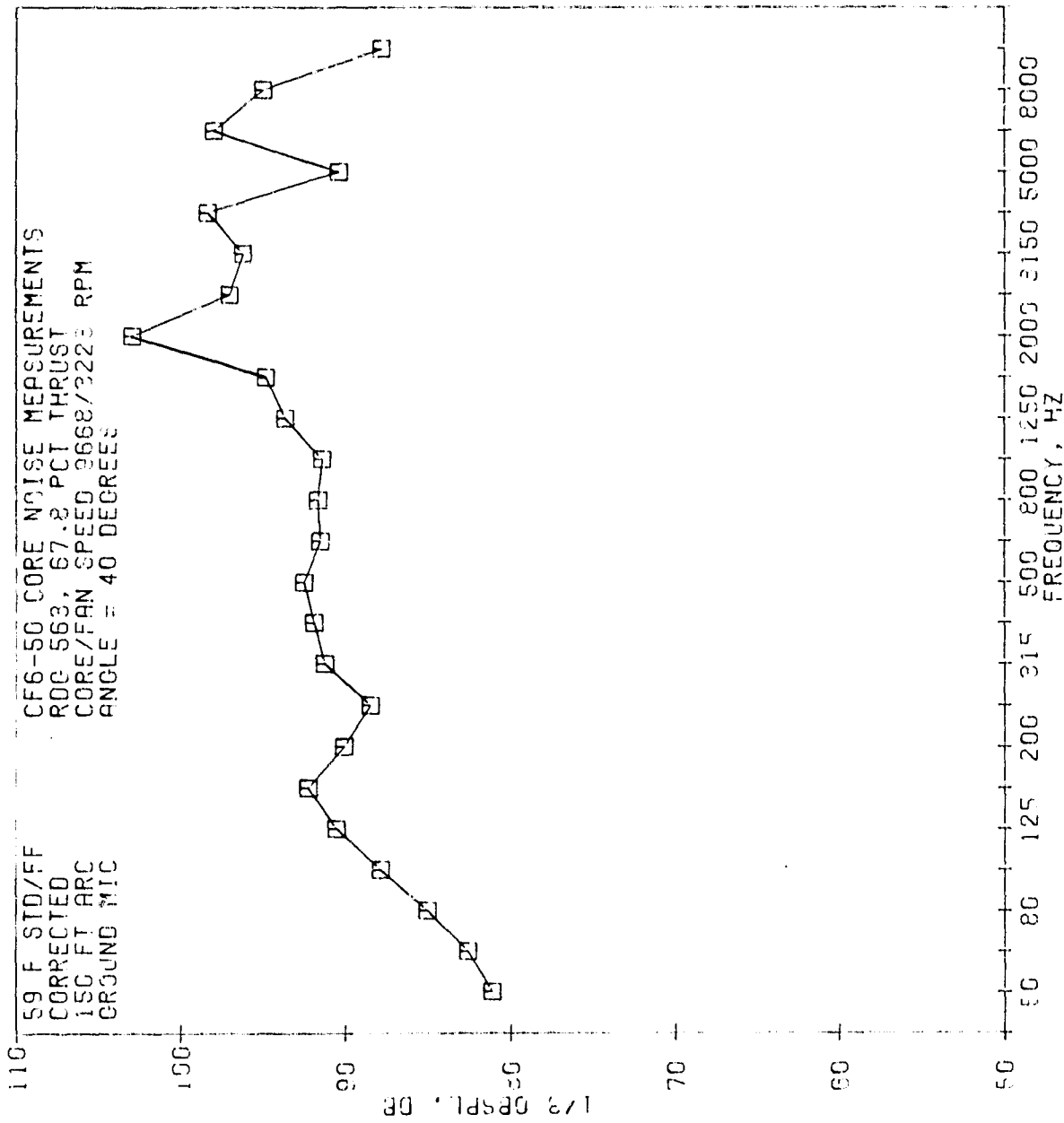
79 GILBERT I



92/17/78
66/21/78
26/17/79

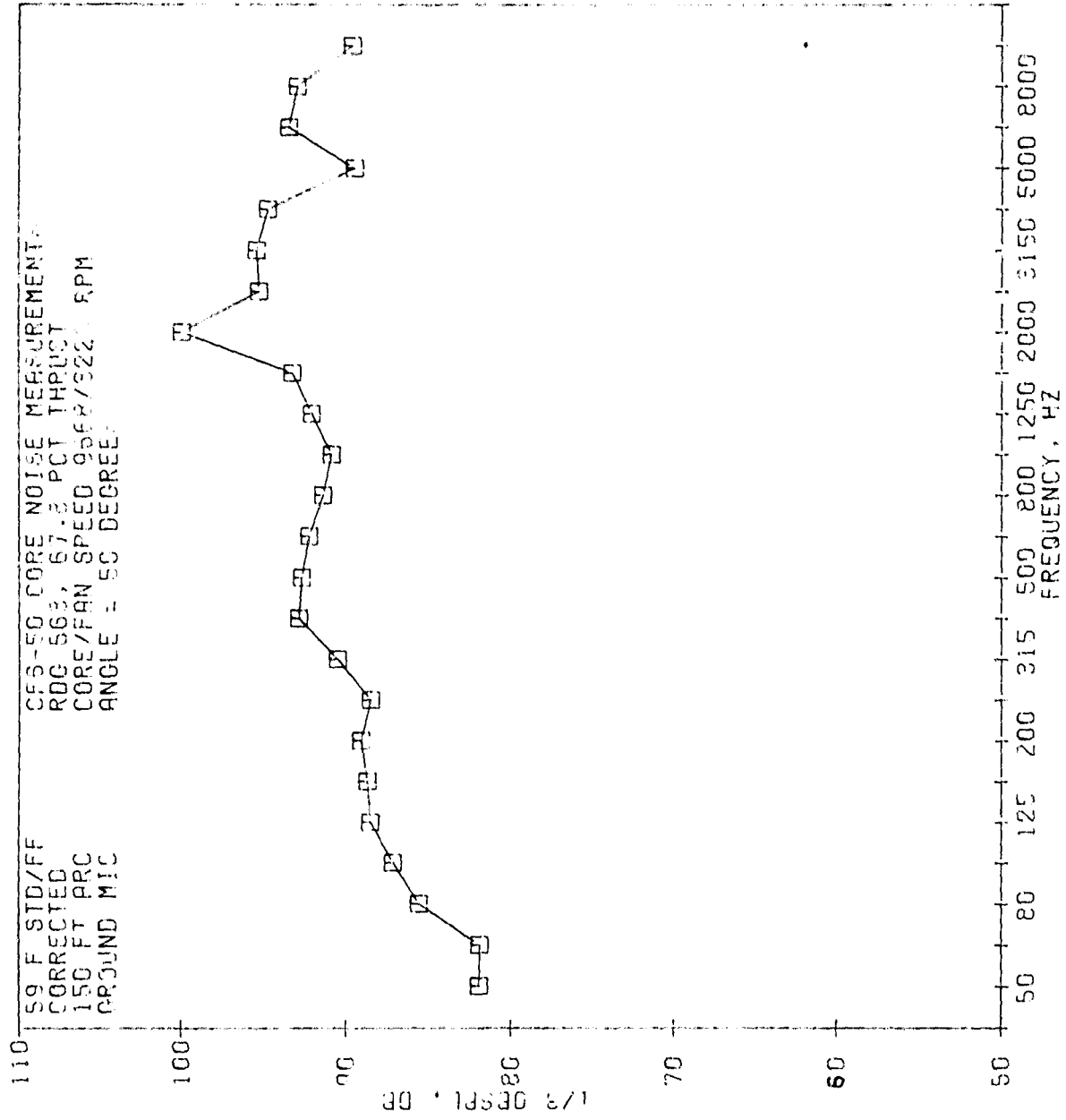
78 GILBERT

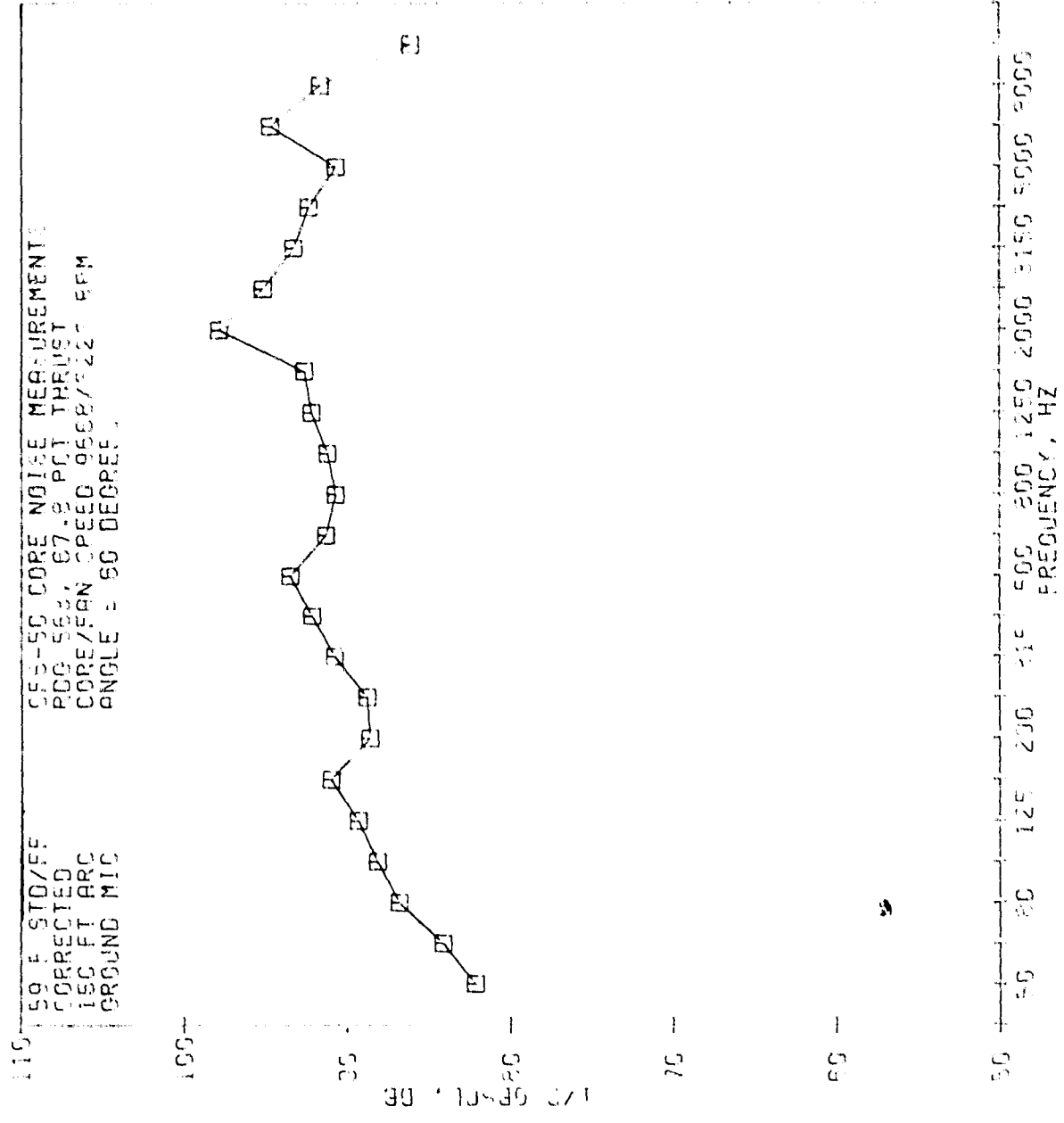




02/17/79
20134-001

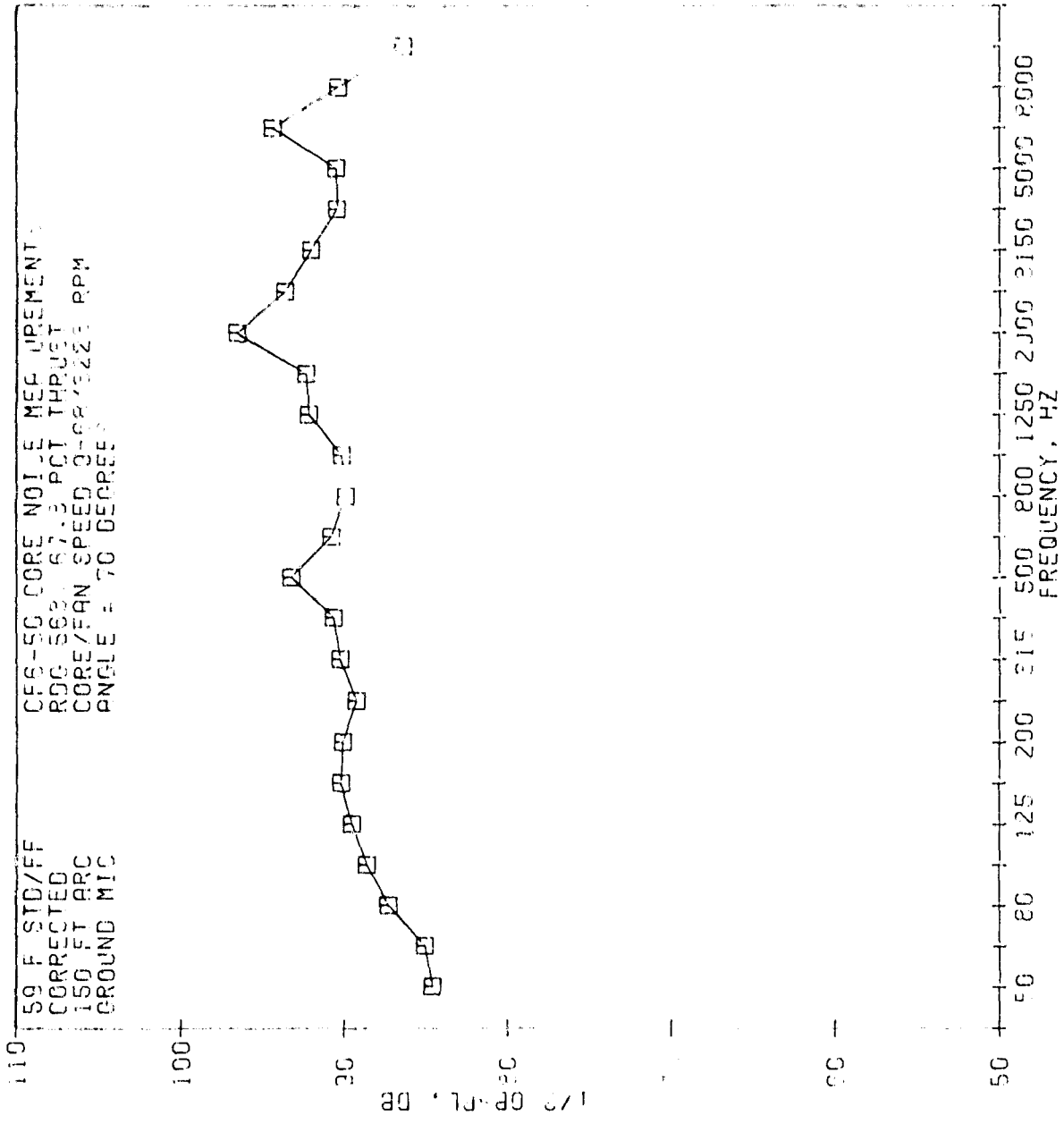
79 CILBERT J

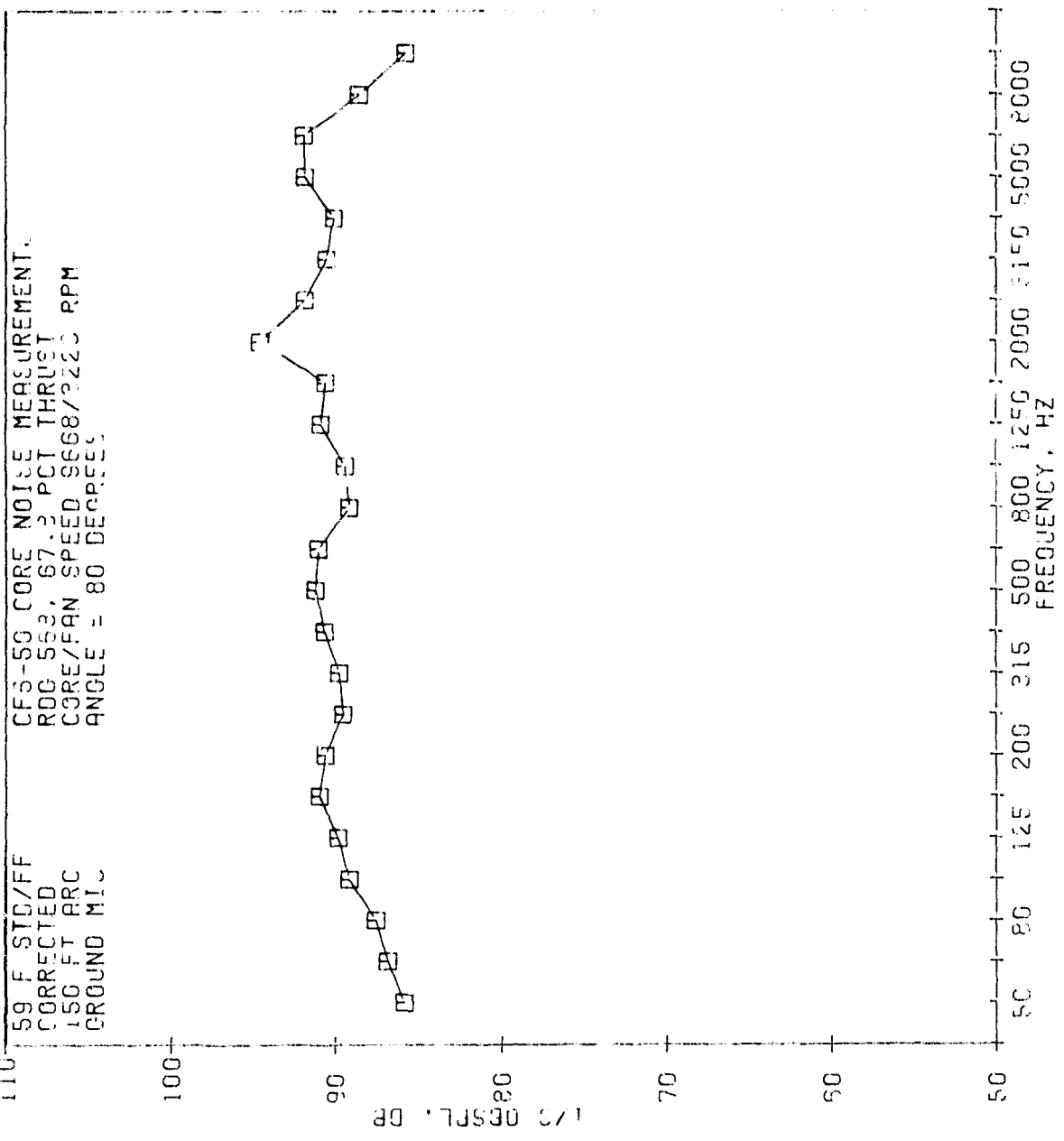


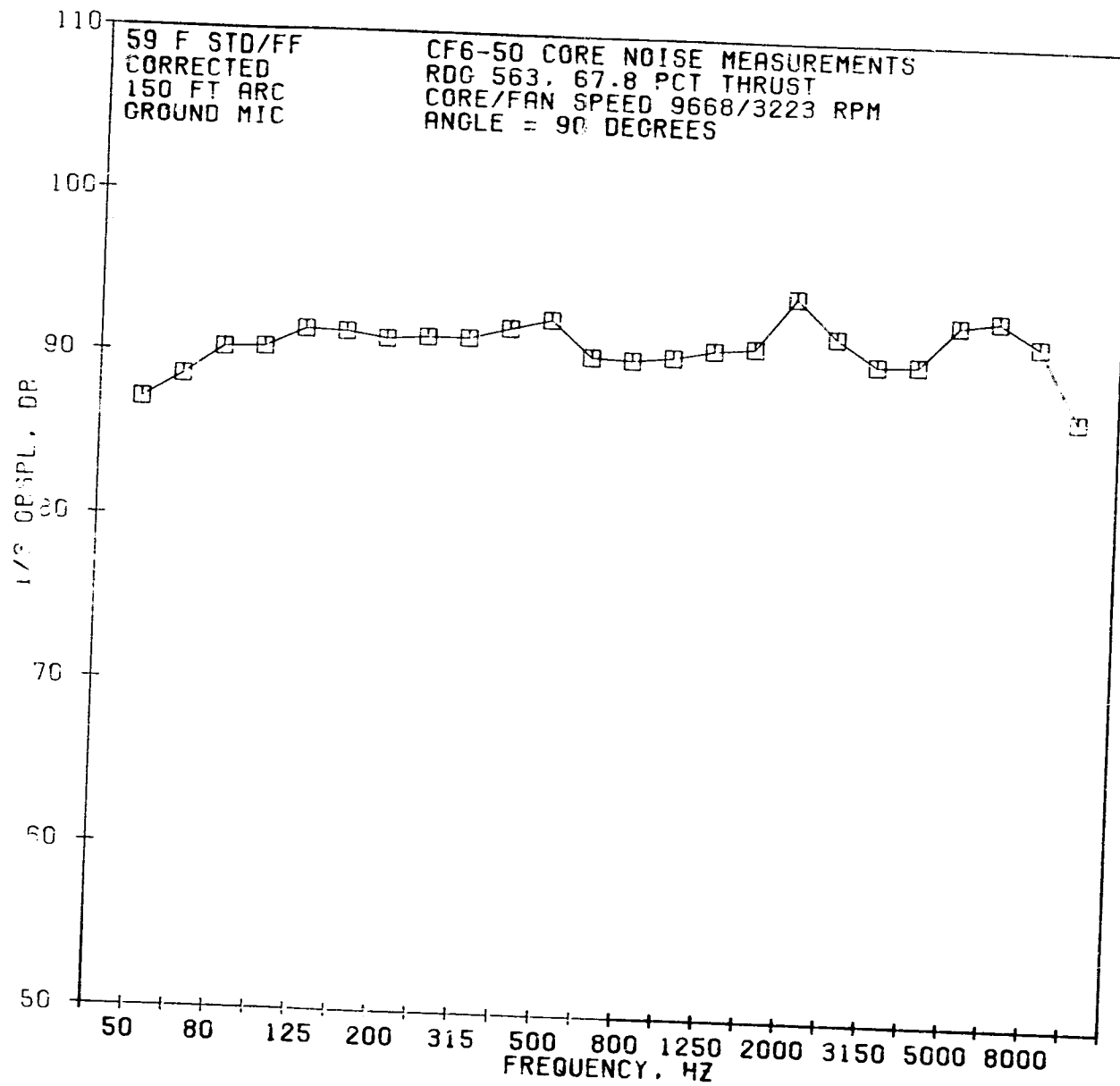


92/17/79
25114-05

TO SUBJECT



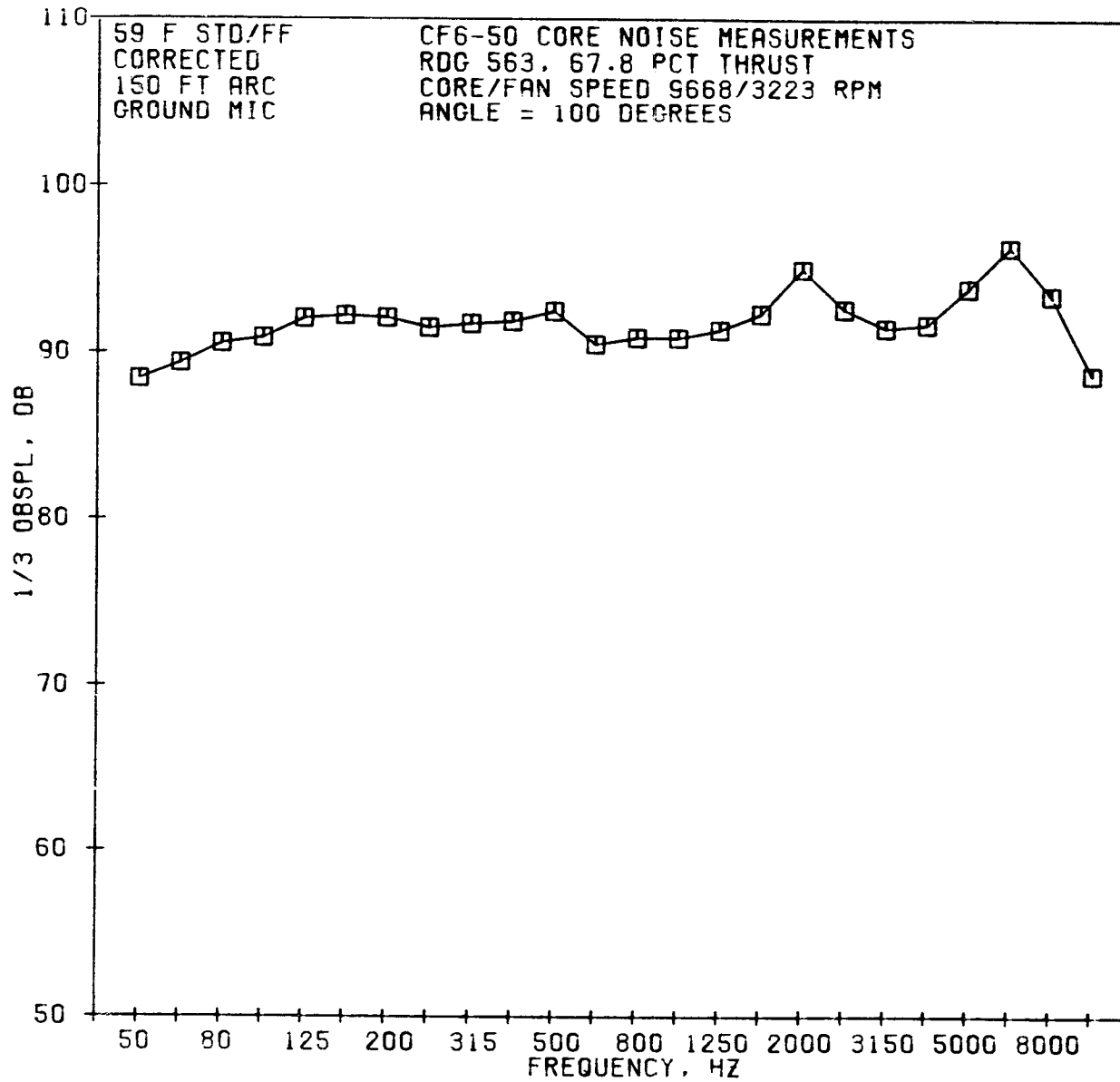




317

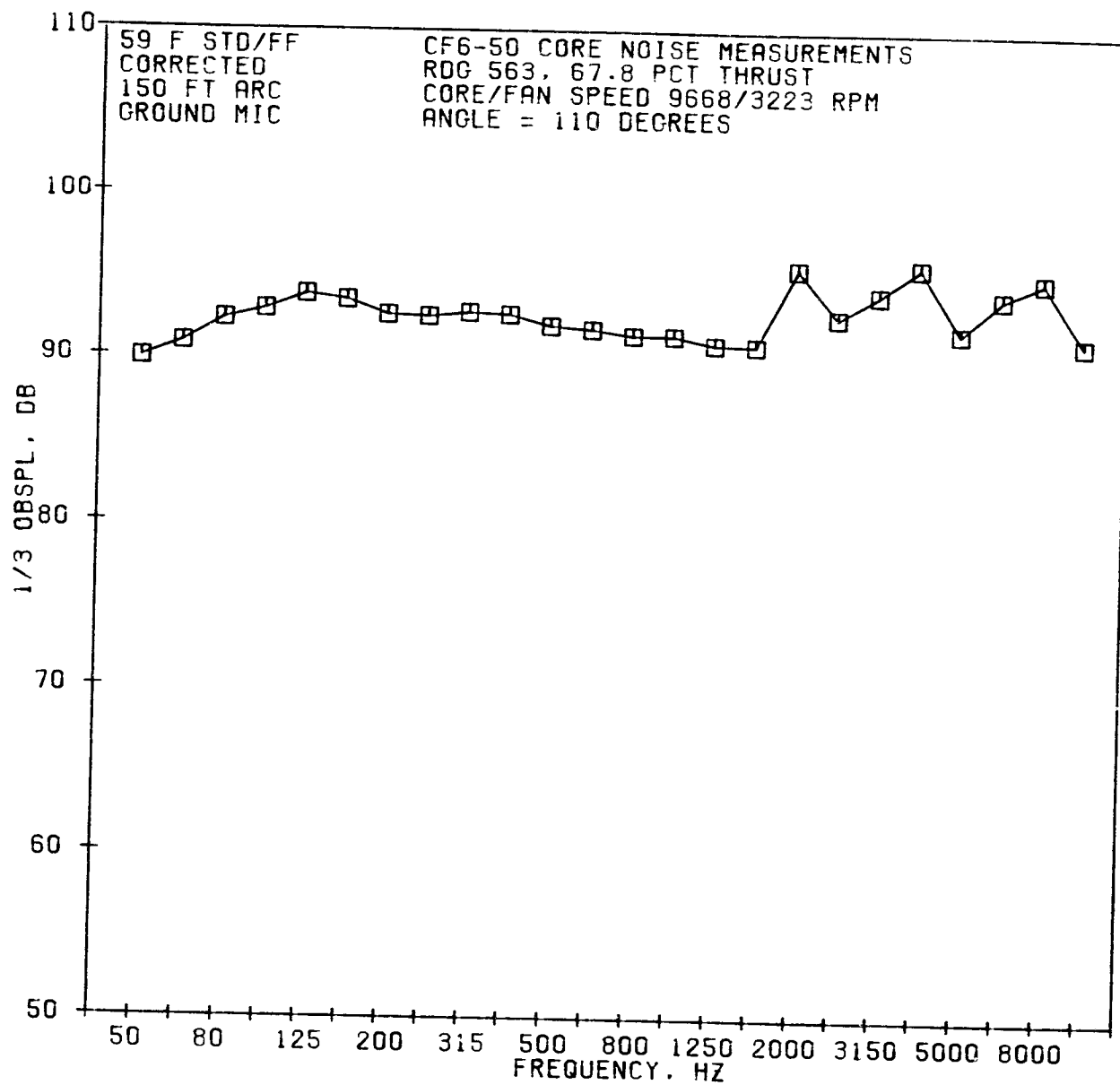
02/17/79
2G134-001

79 GILBERT J



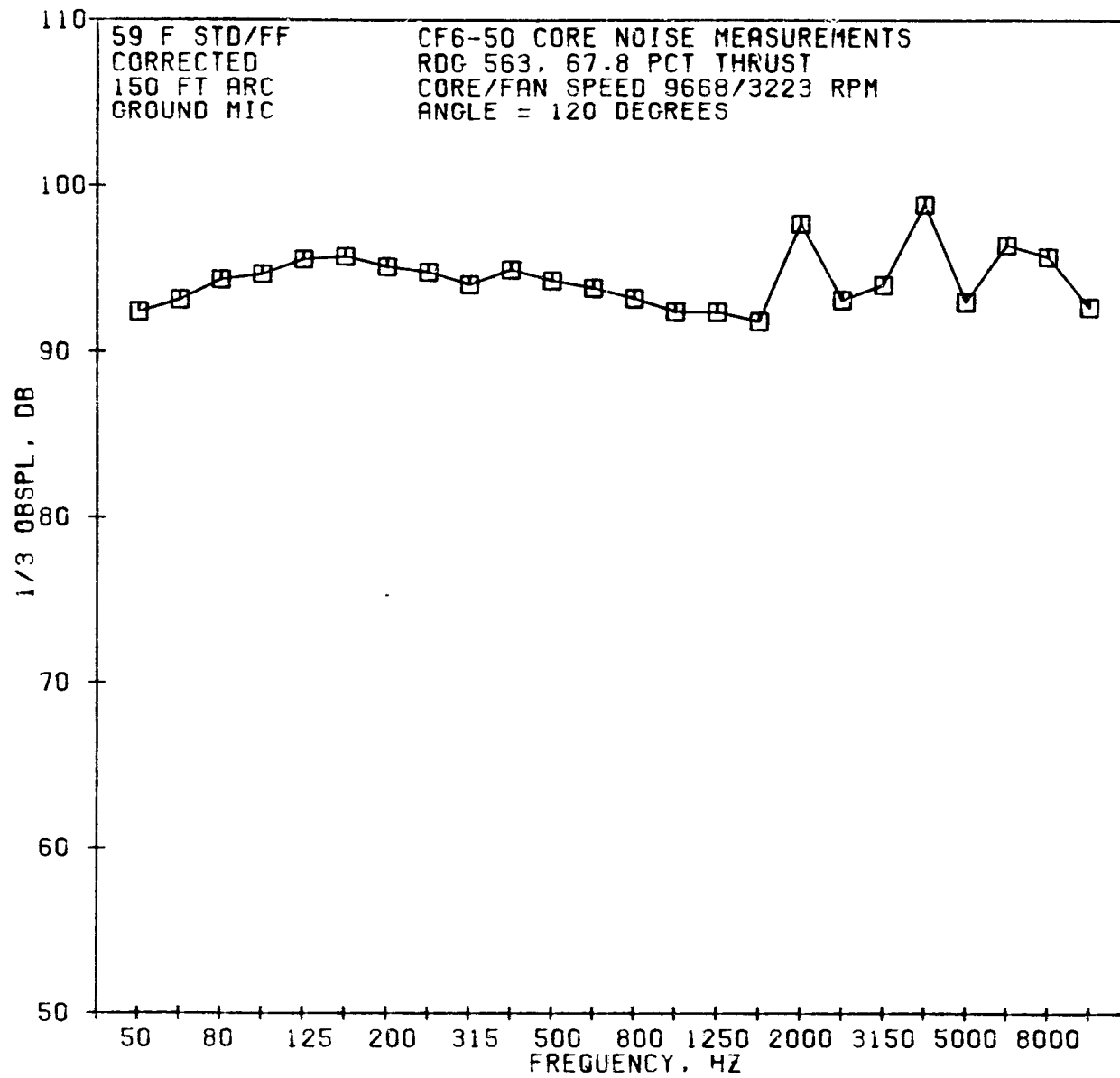
02/17/79
20134-001

79 GILBERT J



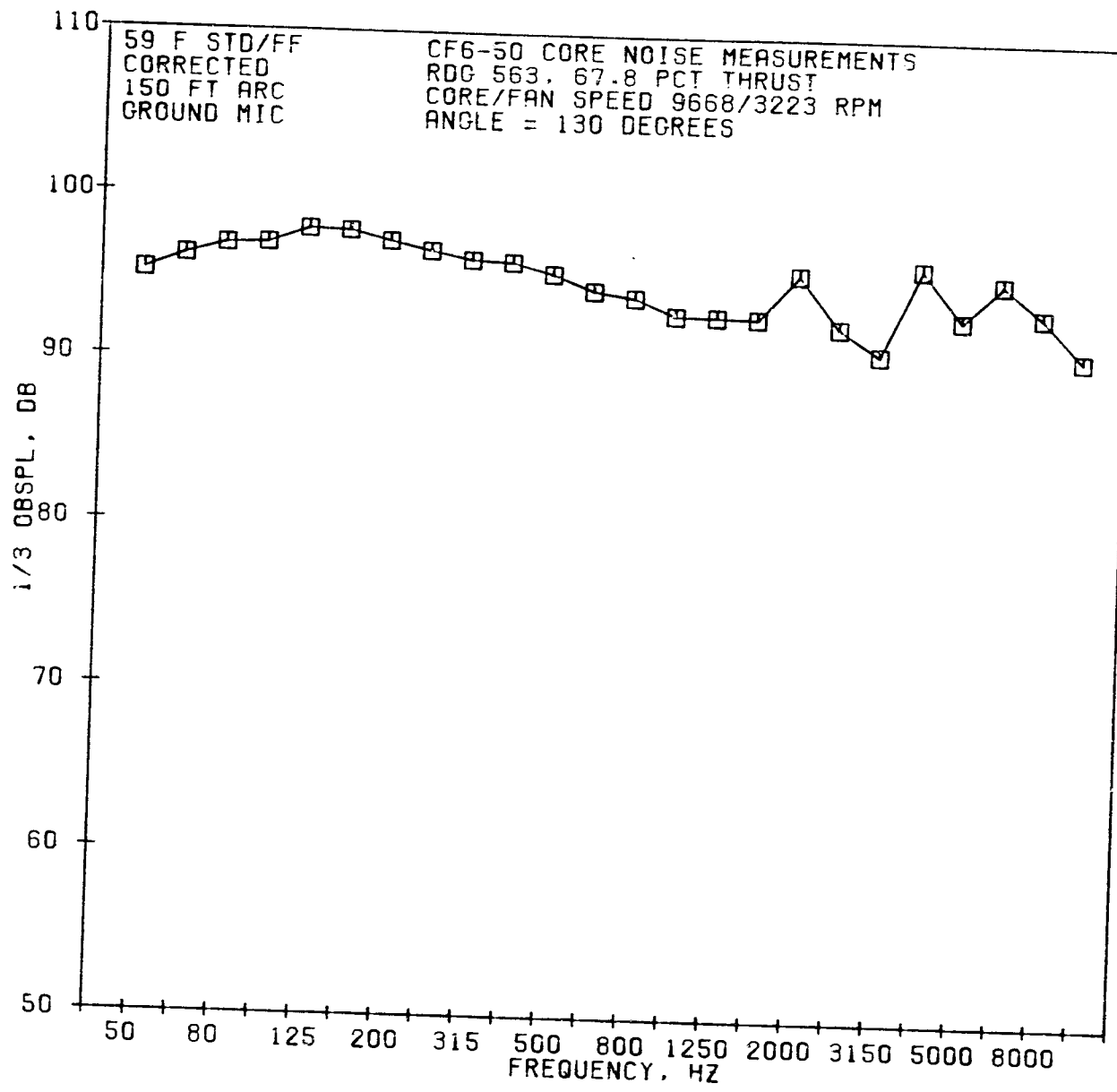
319

2/17/79
1-001



02/17/70
2G134-

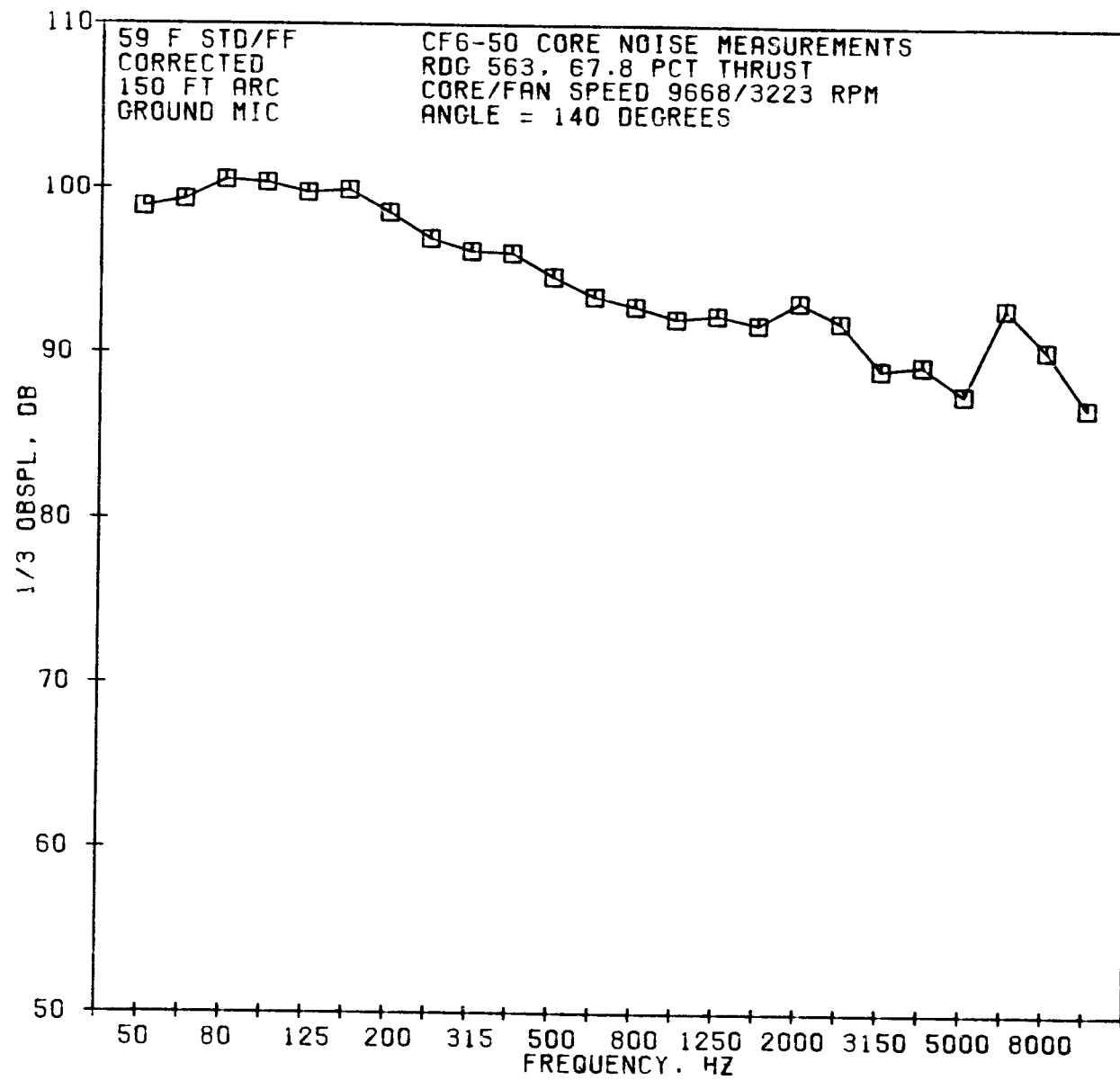
79 GILBERT J



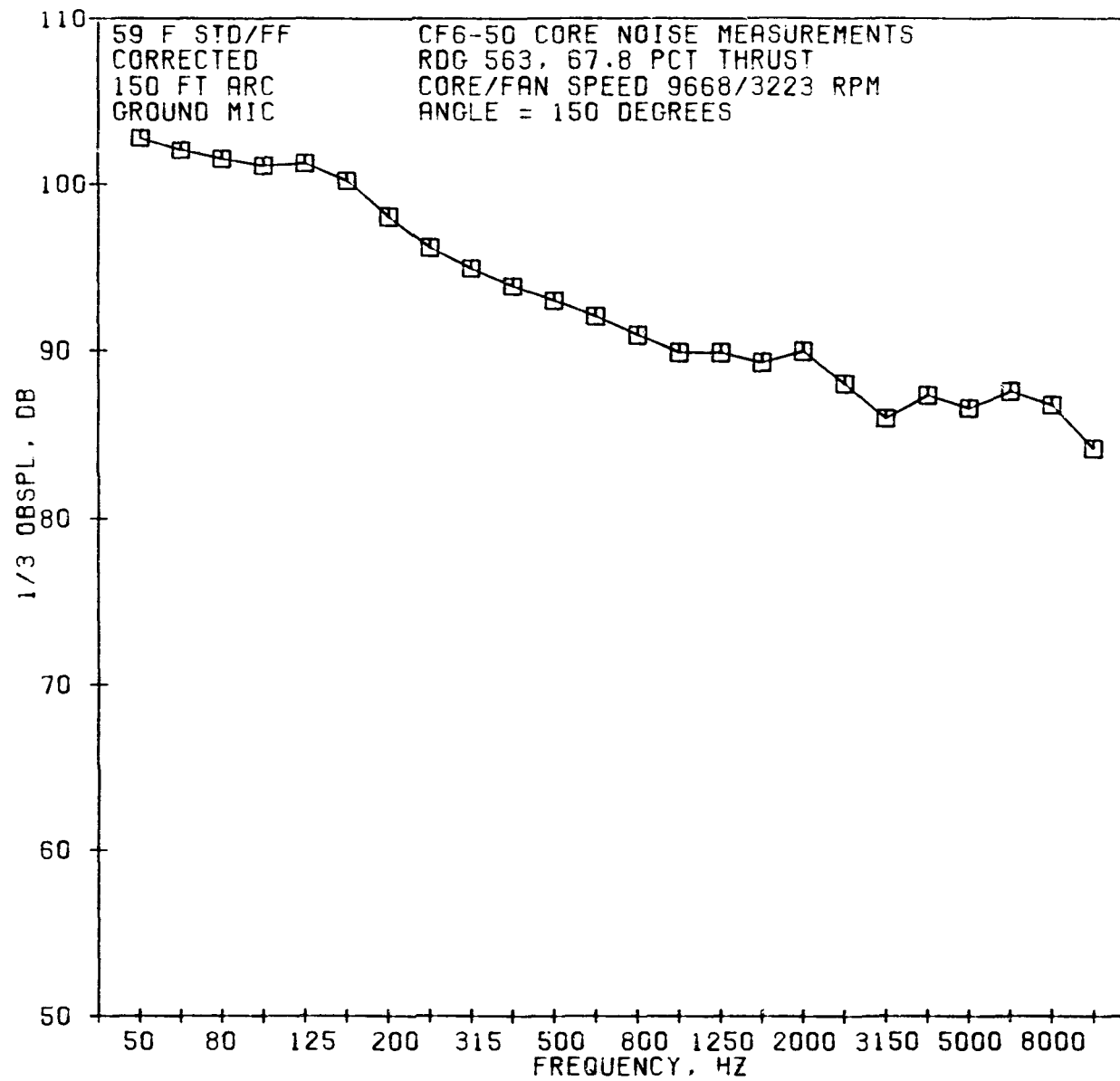
321

02/17/79
20134-001

79 GILBERT J



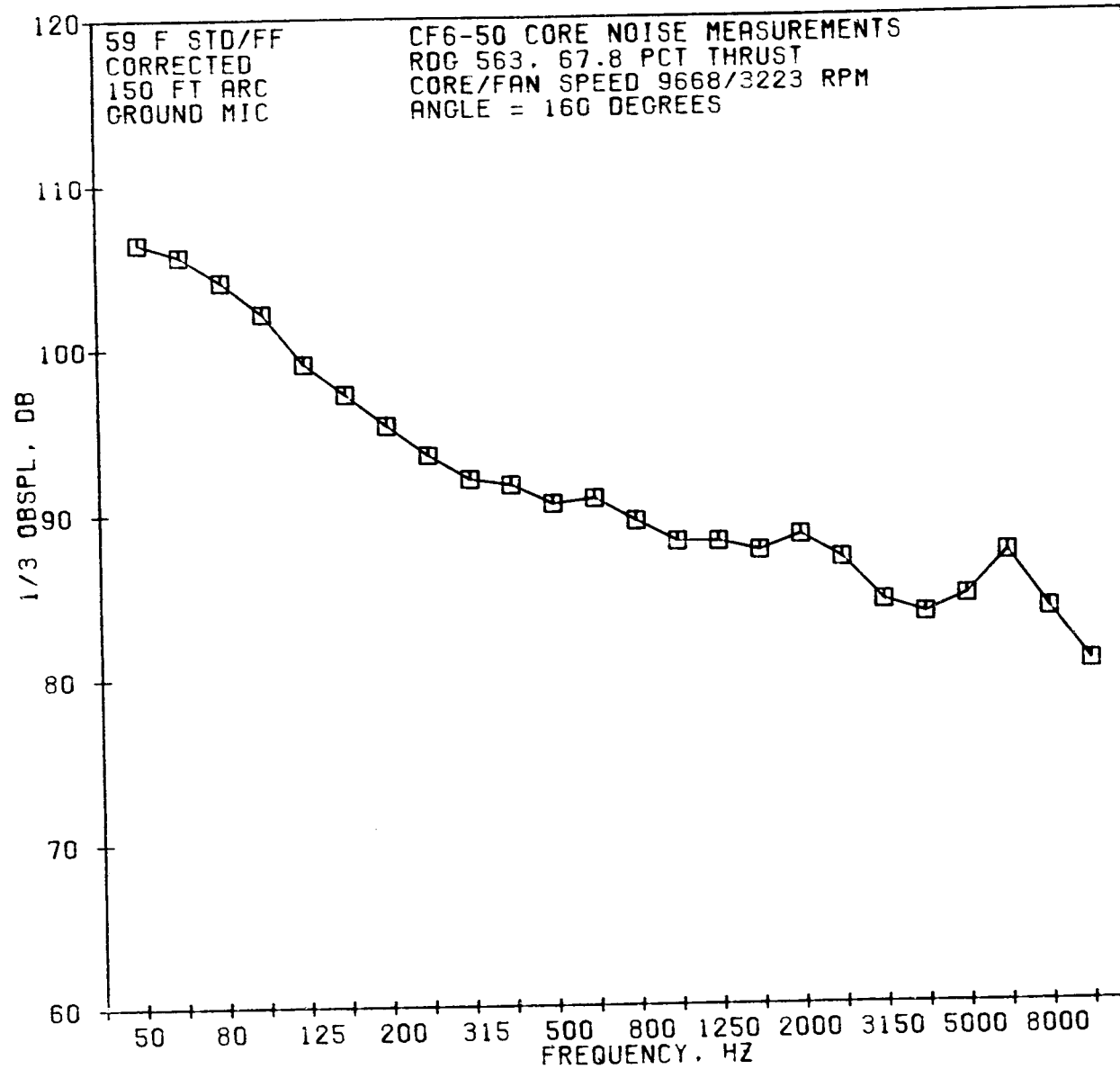
02/17/79
134-001



323

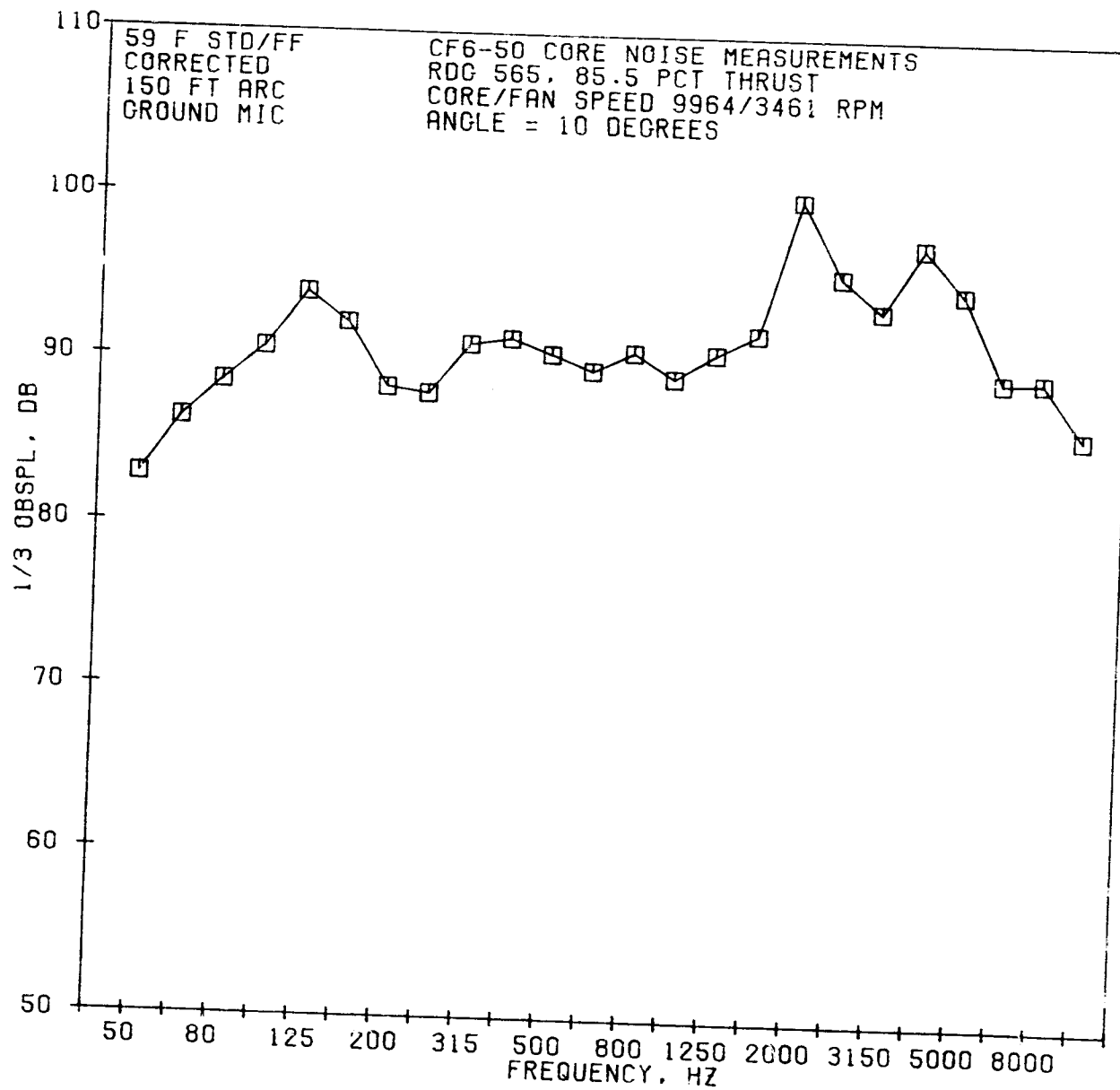
02/17/77
2013

79 GILBERT J



02/17/79
2G134-0G1

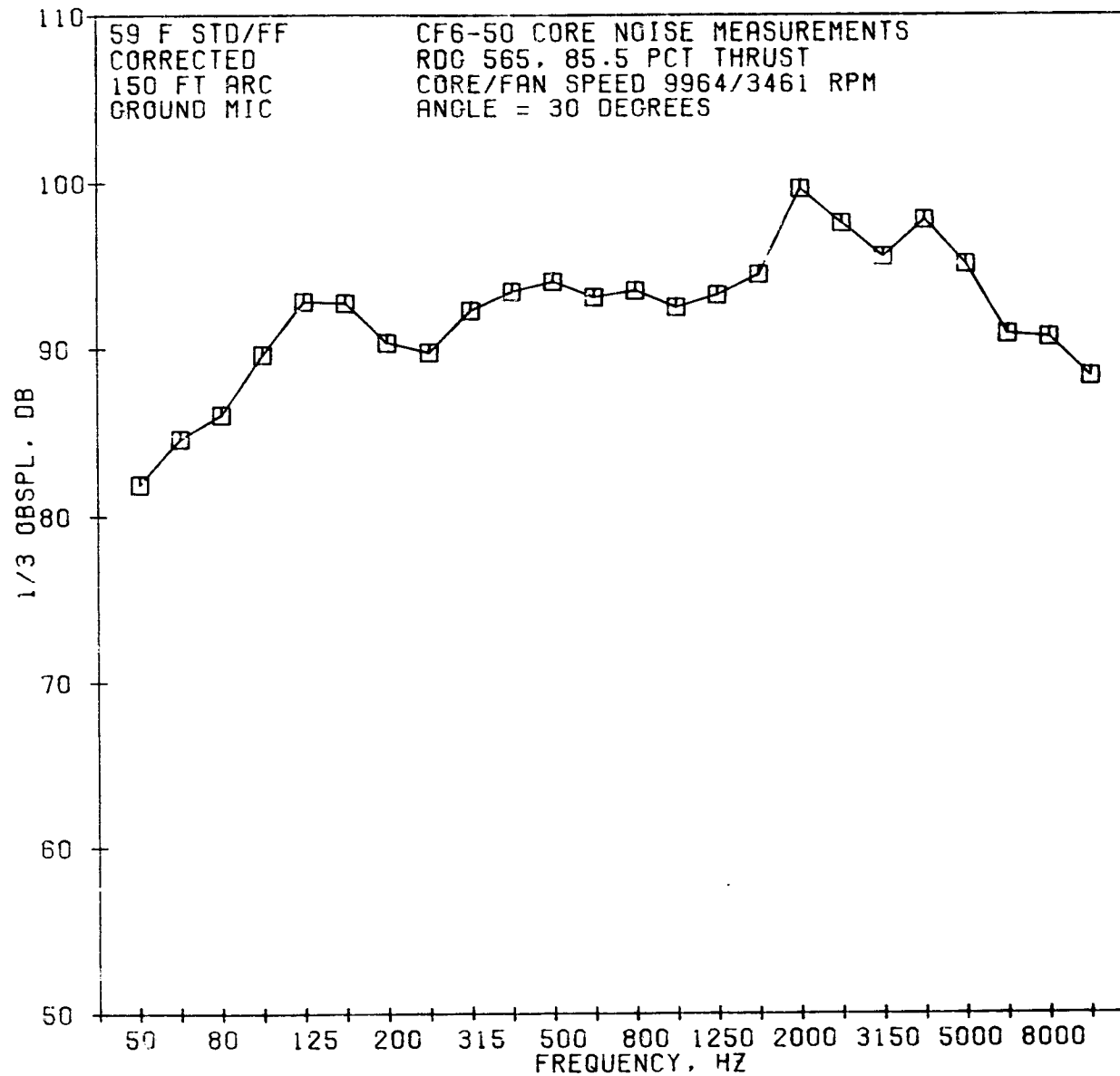
79 GILBERT J



325

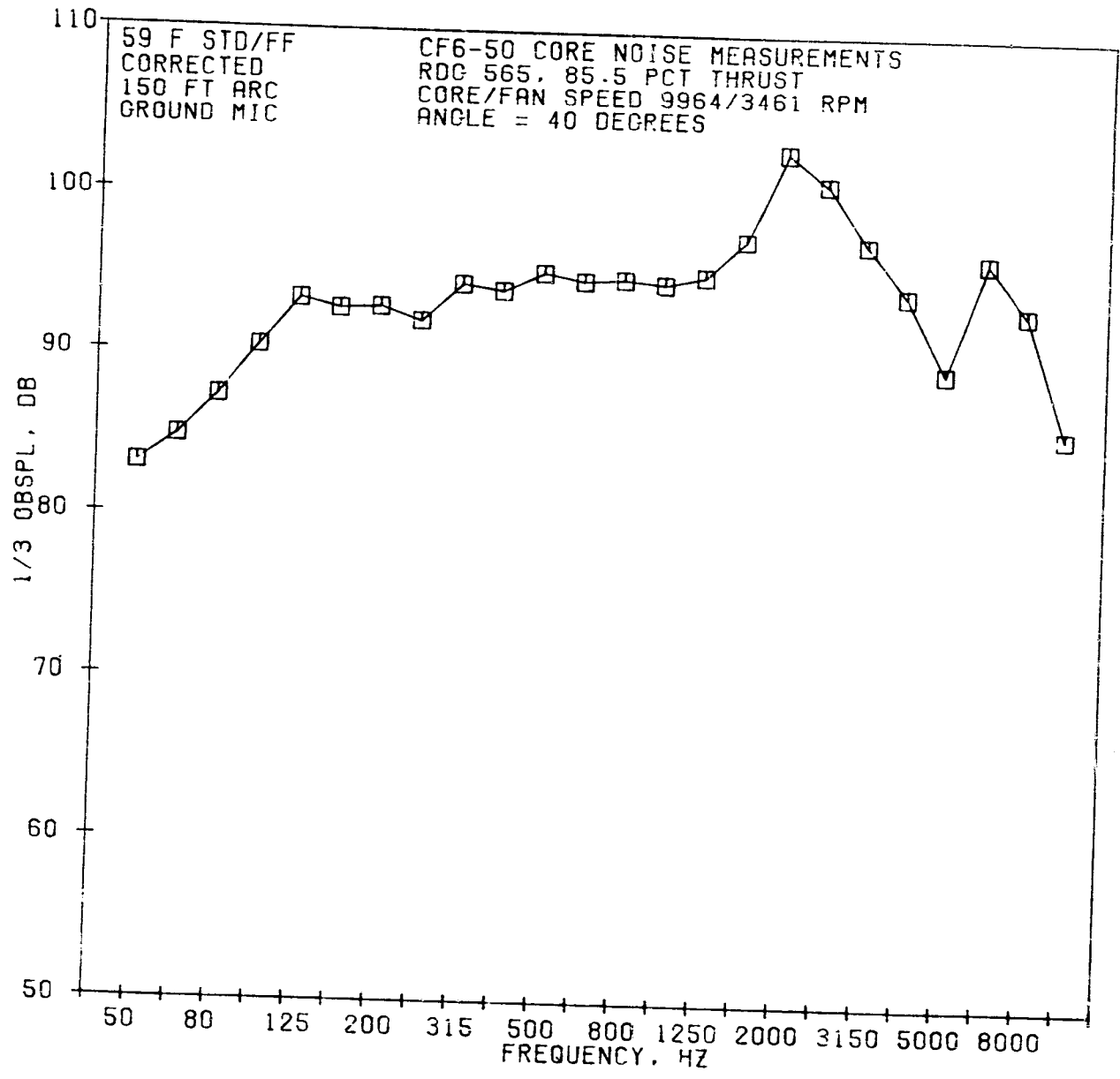
02/17/79

02-01-0001



02/17/79

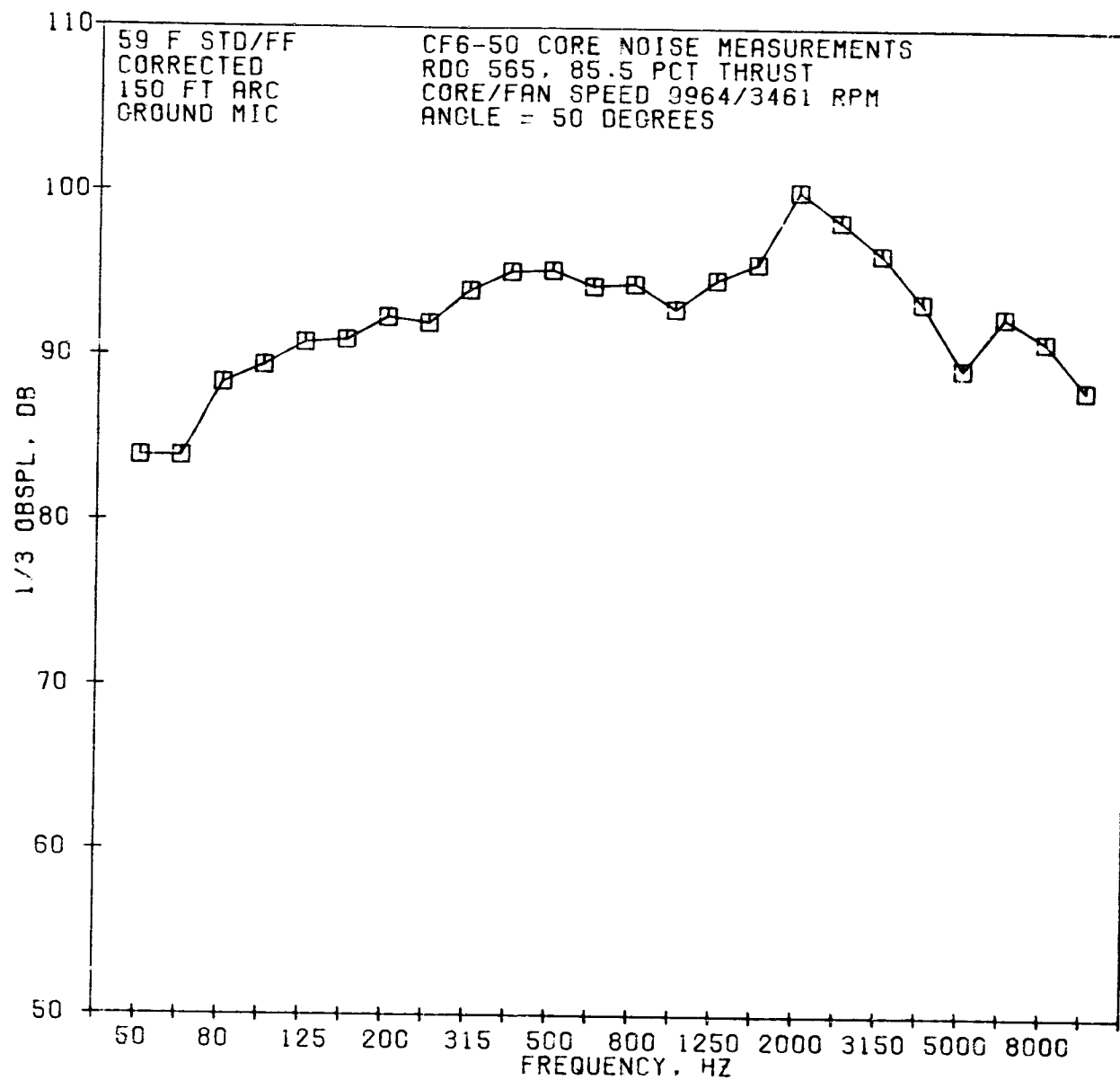
78-01187-1



327

02/17/79

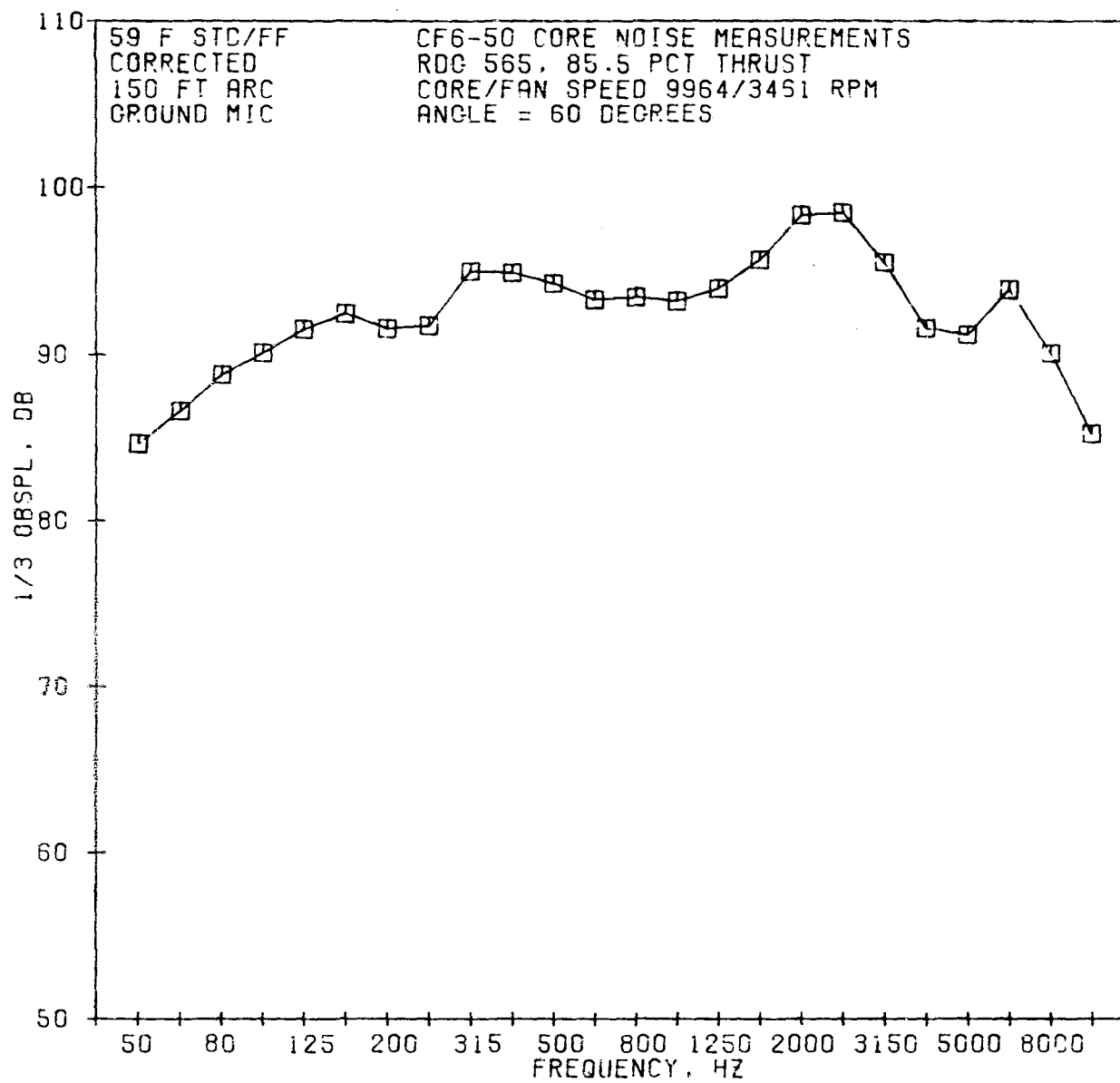
NO. 011-2557



02/17/79

20151 001

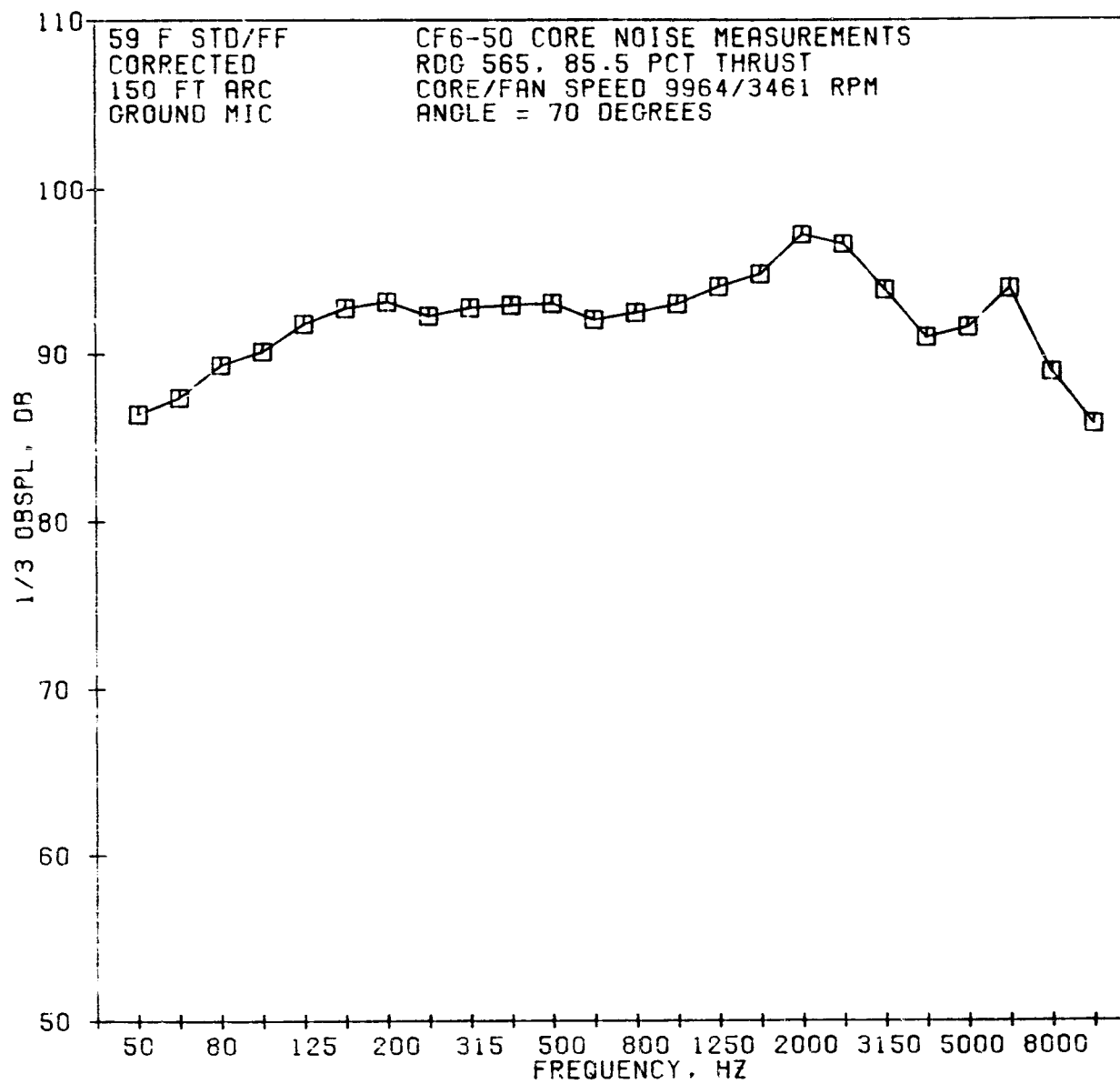
20151 001



329

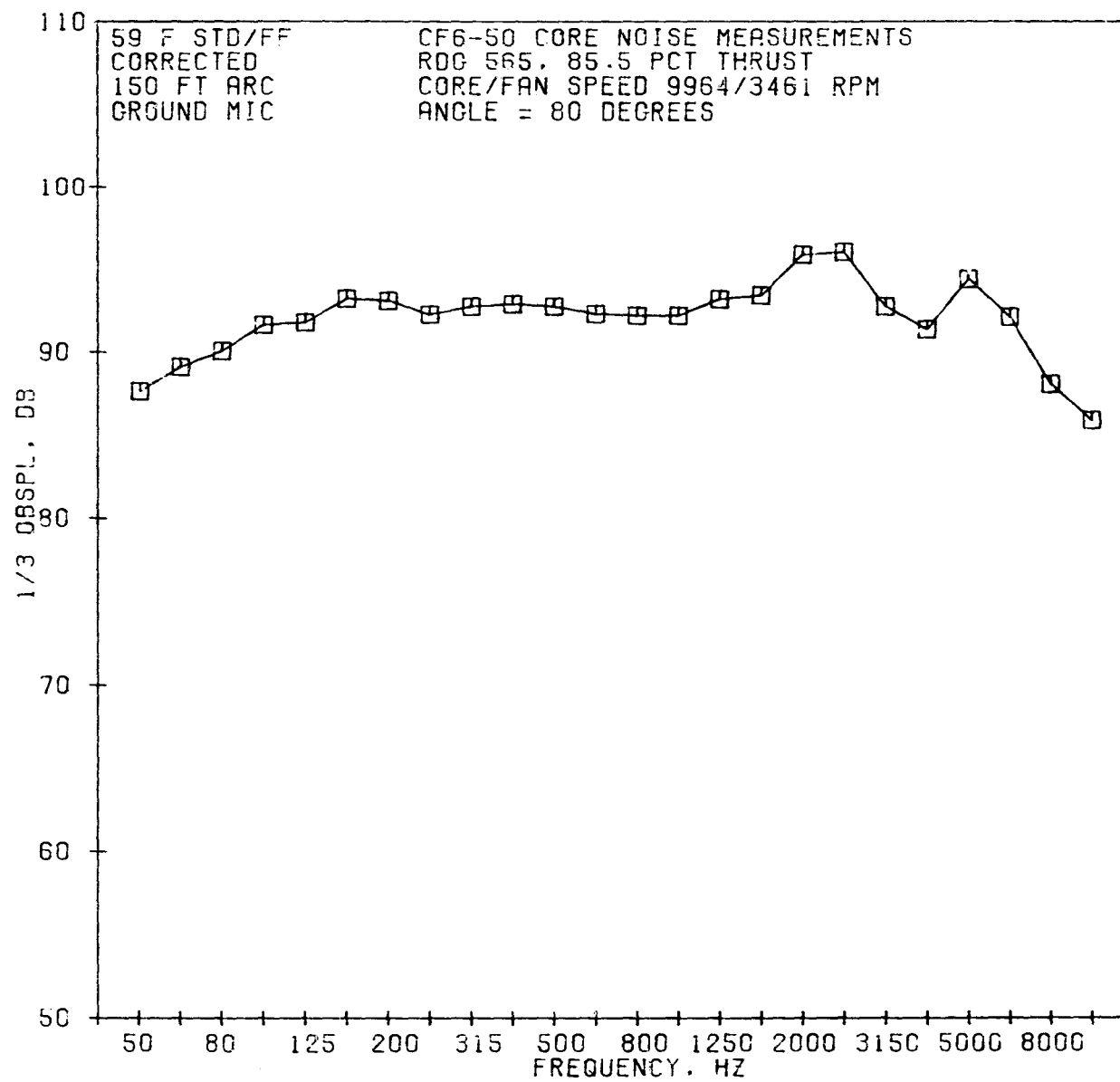
02/17/79

10 01 02 03 04



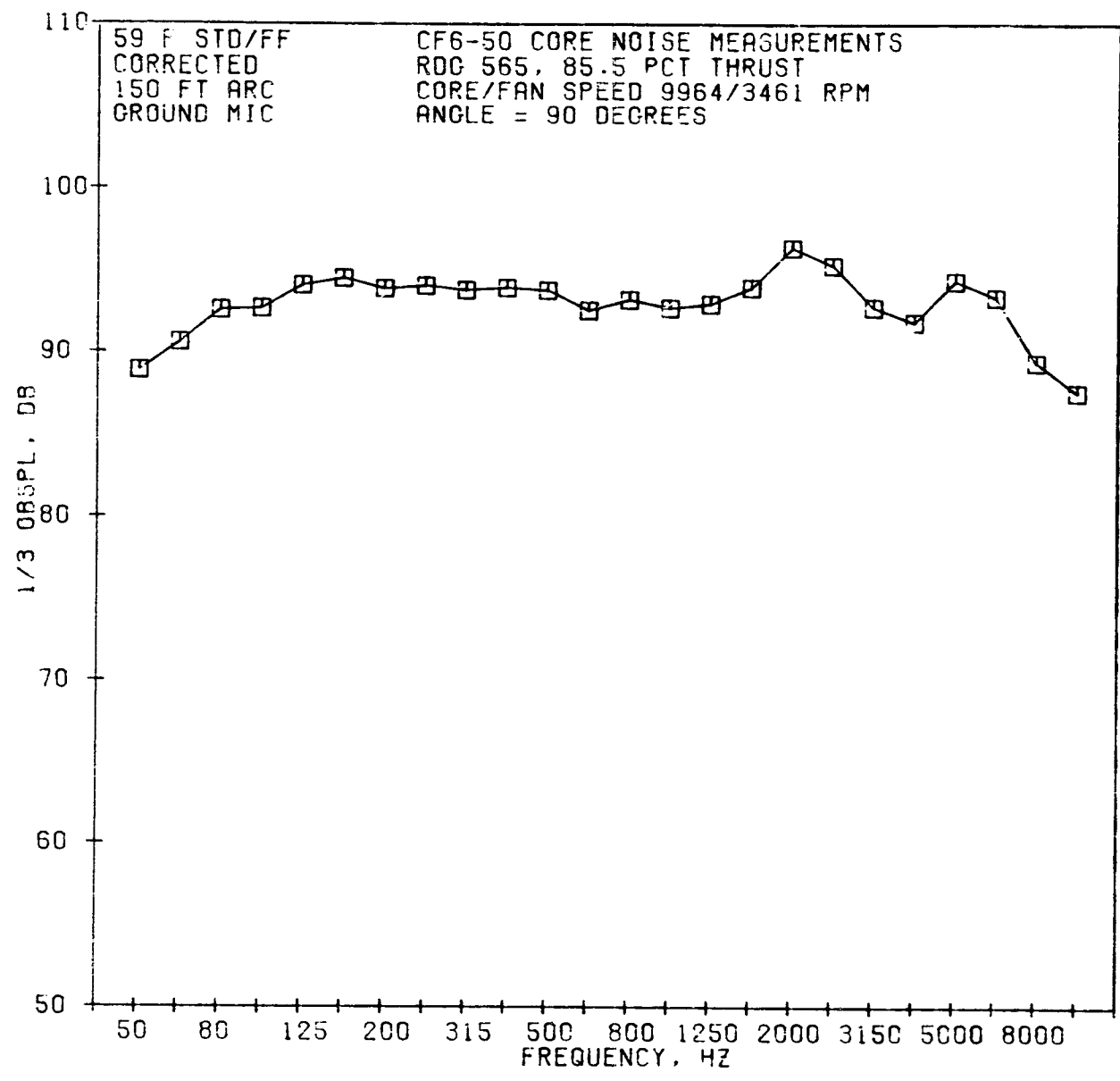
02/17/79

RDG 565



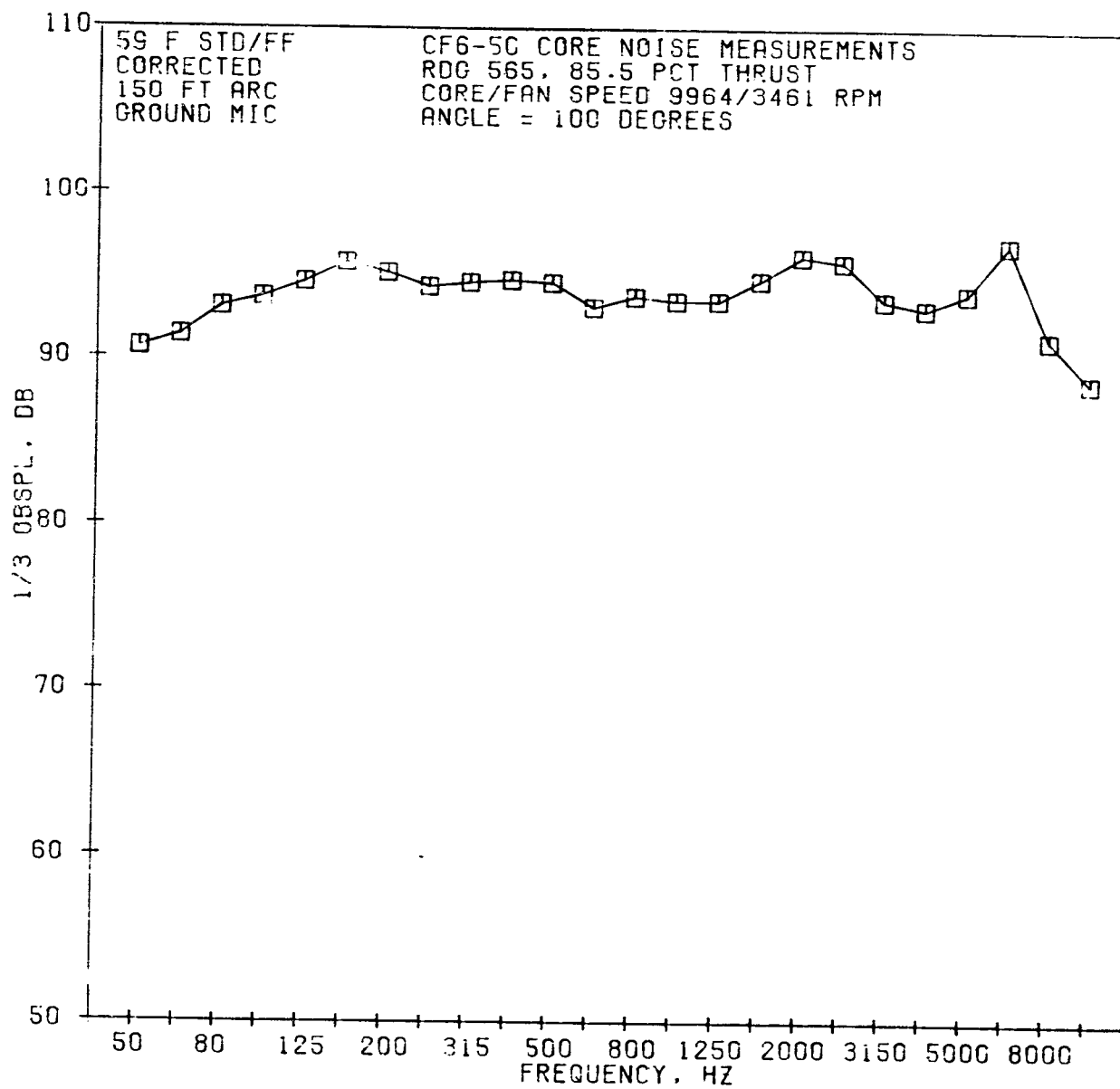
331

02/17/79



02/17/79

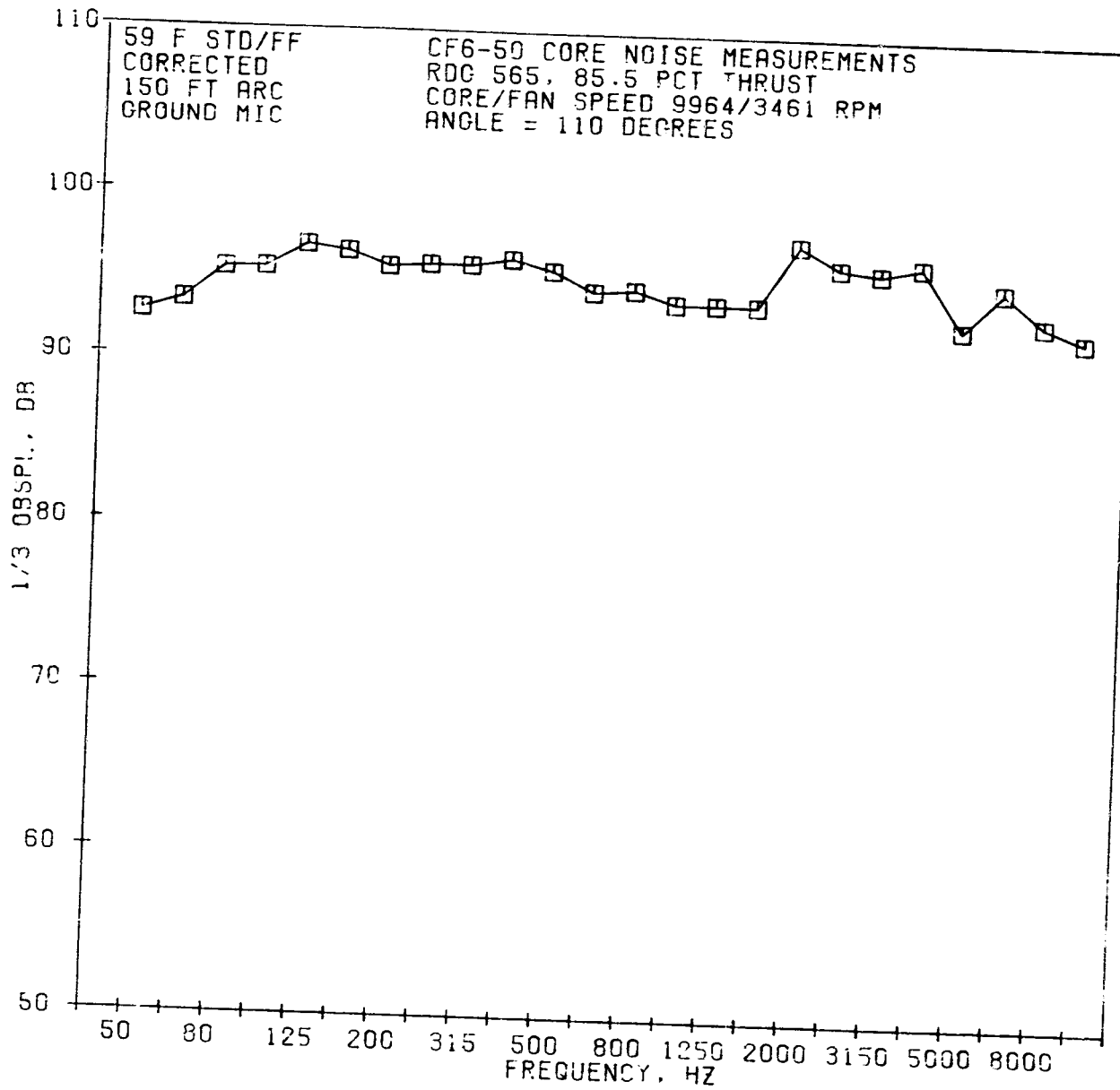
02-01-0001



333

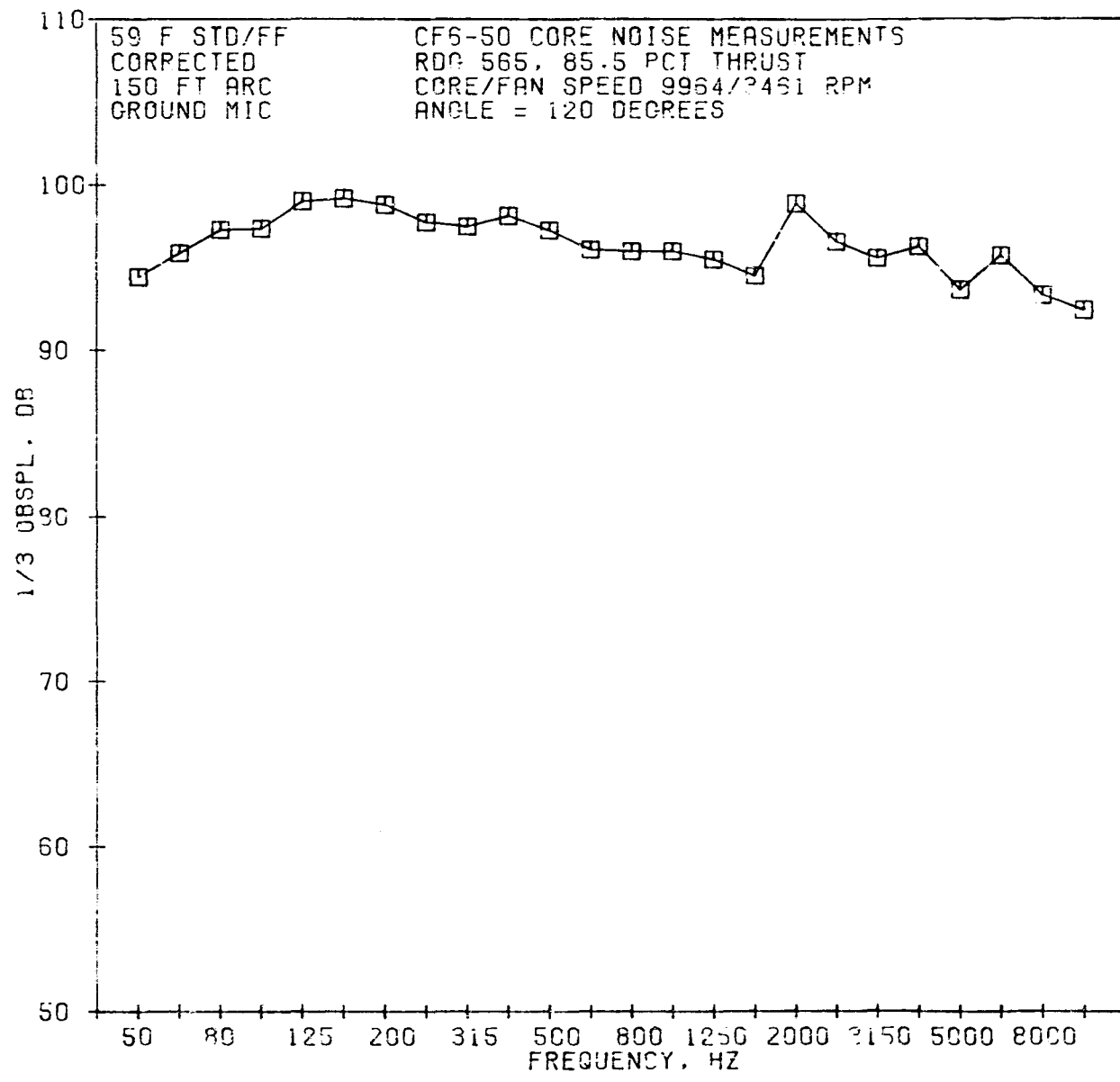
02/17/79

02/17/79



02/17/79

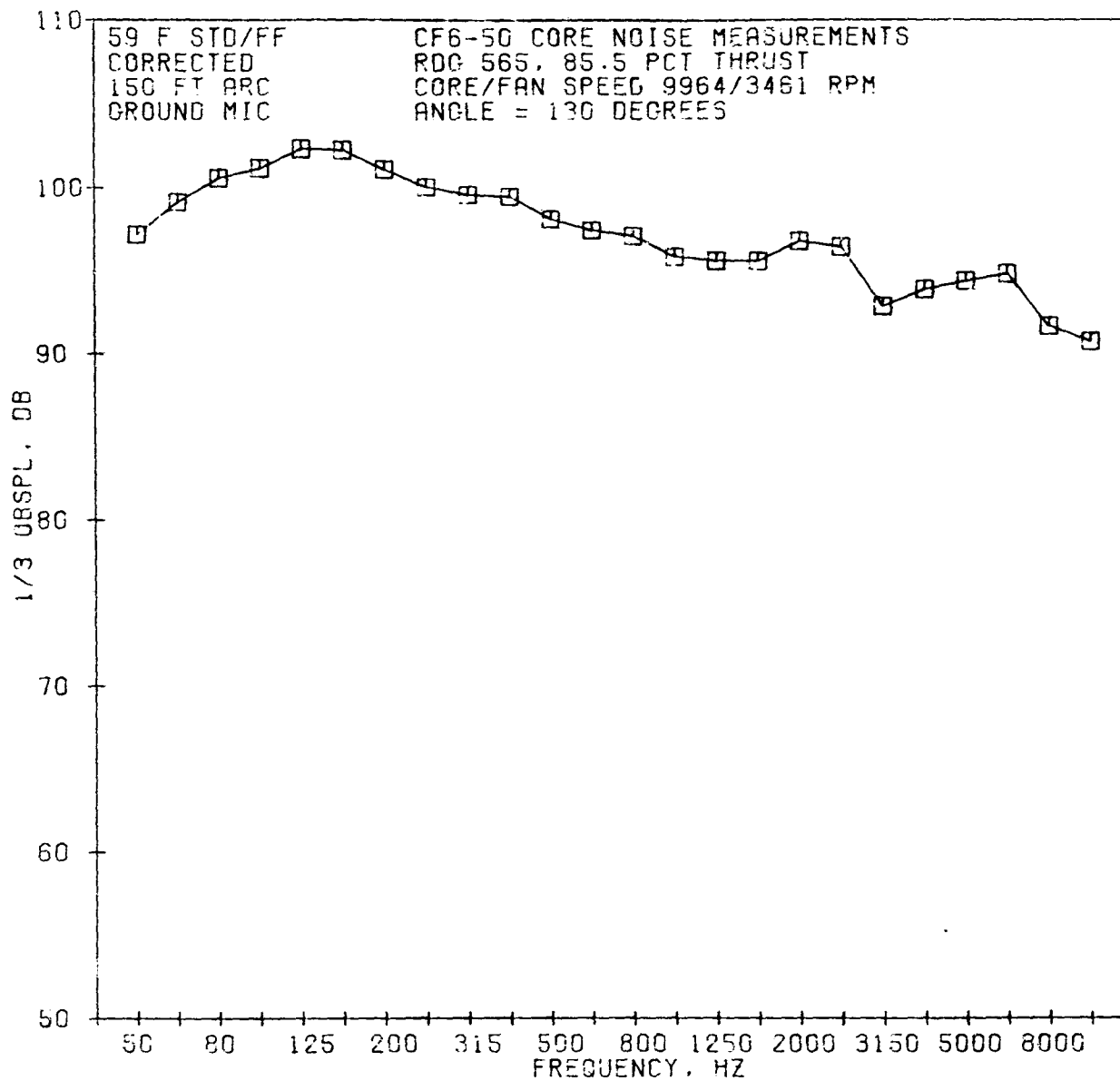
72-011887



335

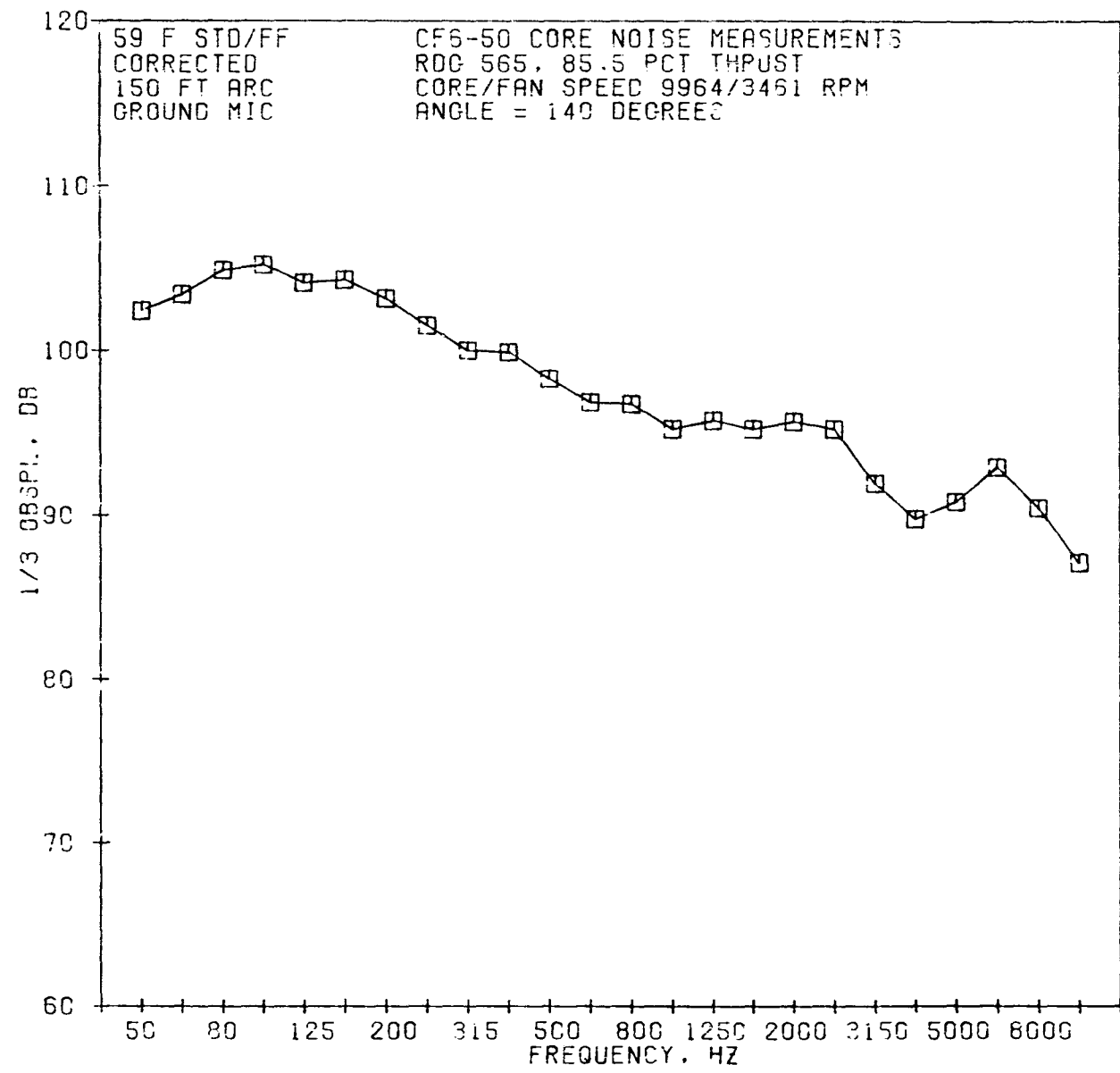
02/17/79

00 00000000



02/17/79

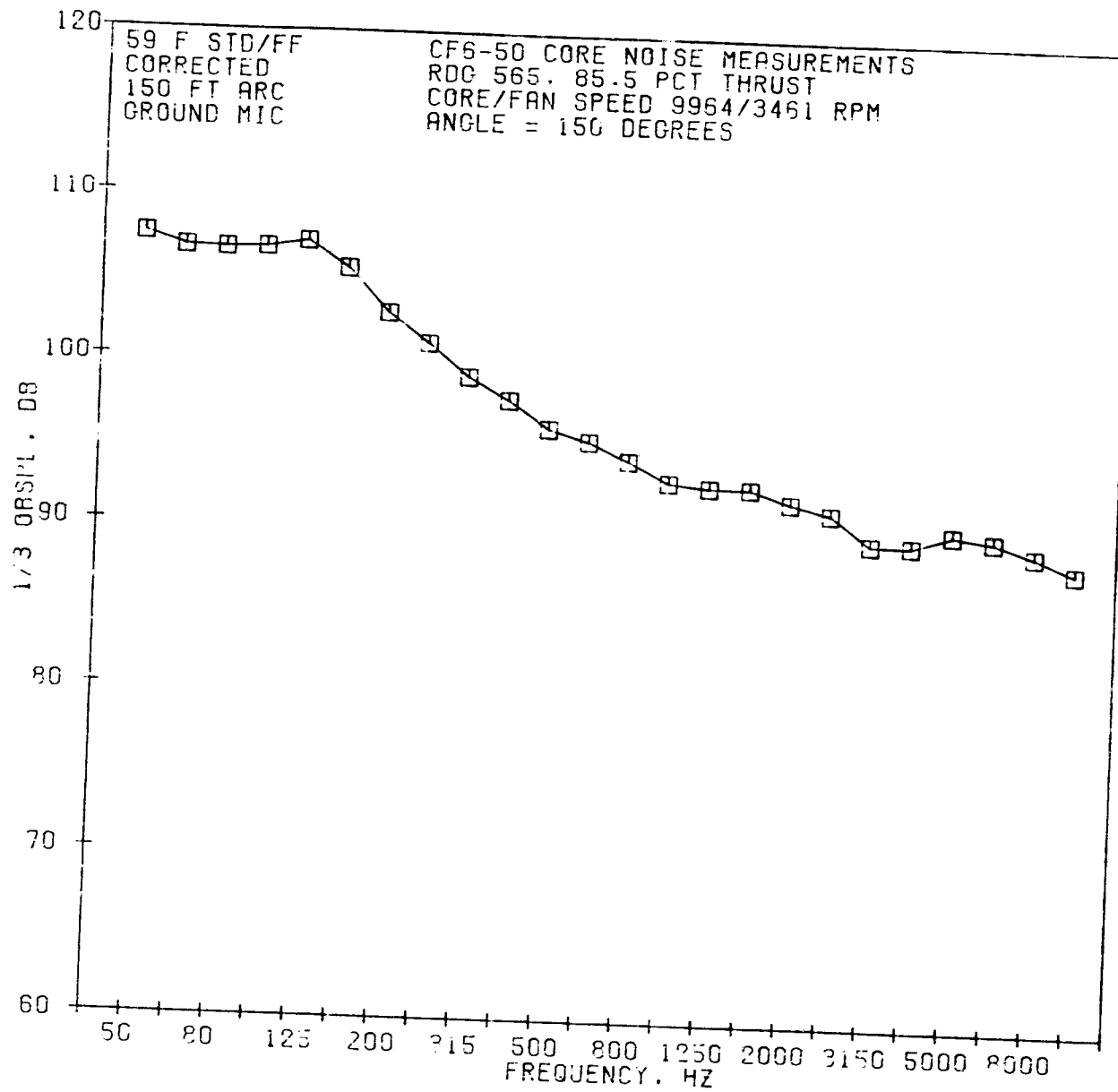
02/17/79



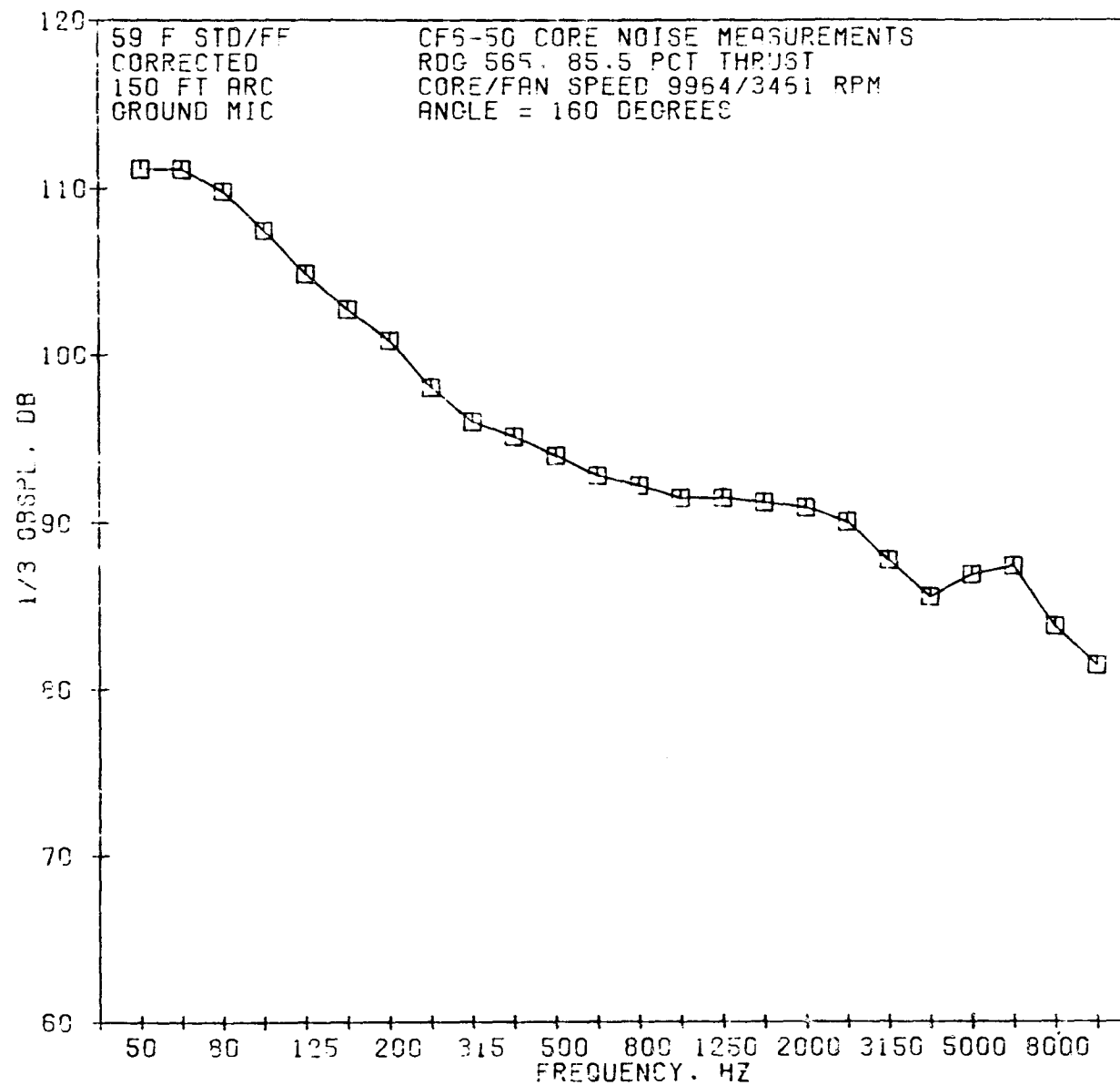
387

02/17/79

00 00 00 00 00



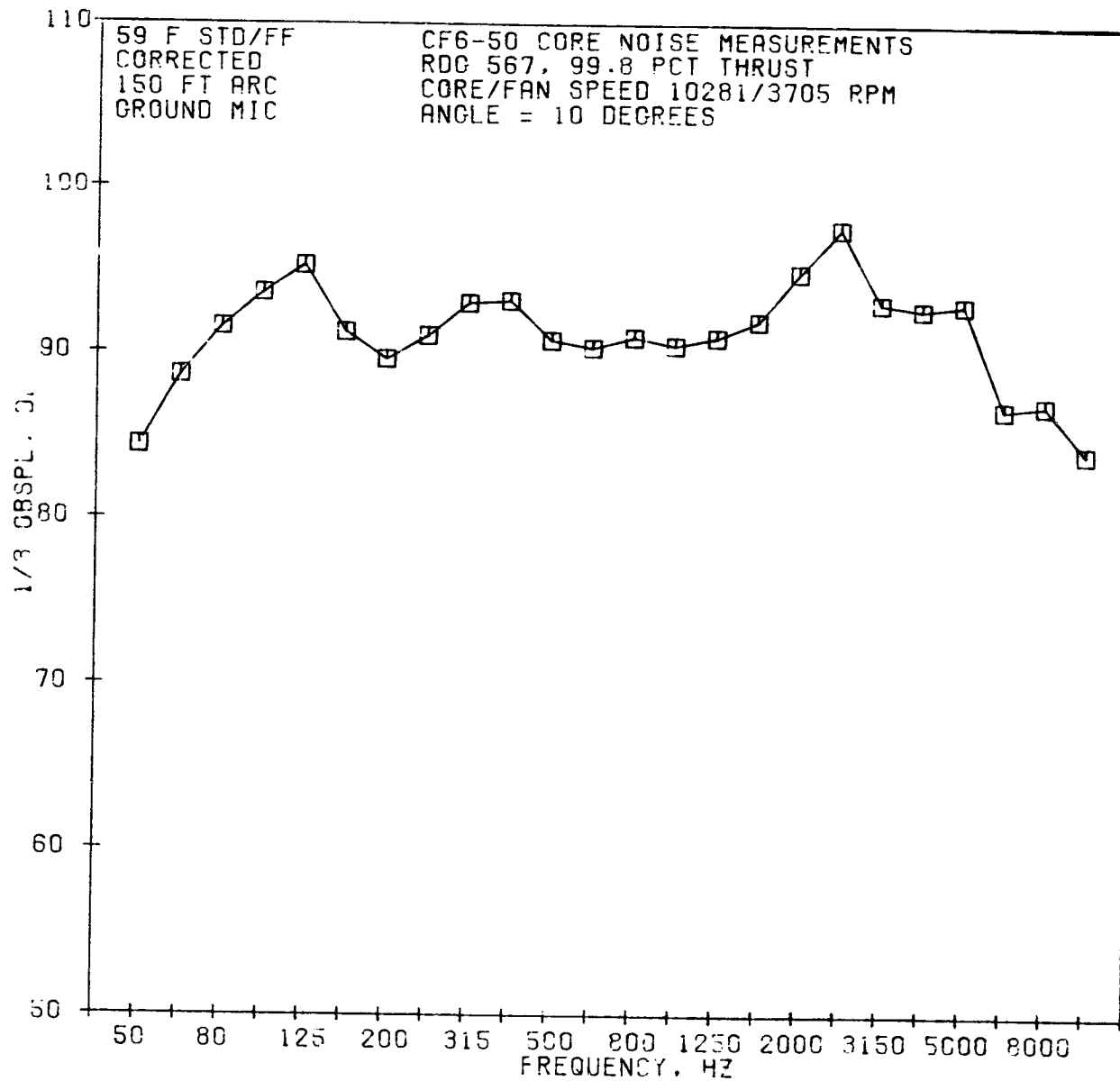
02/17/73



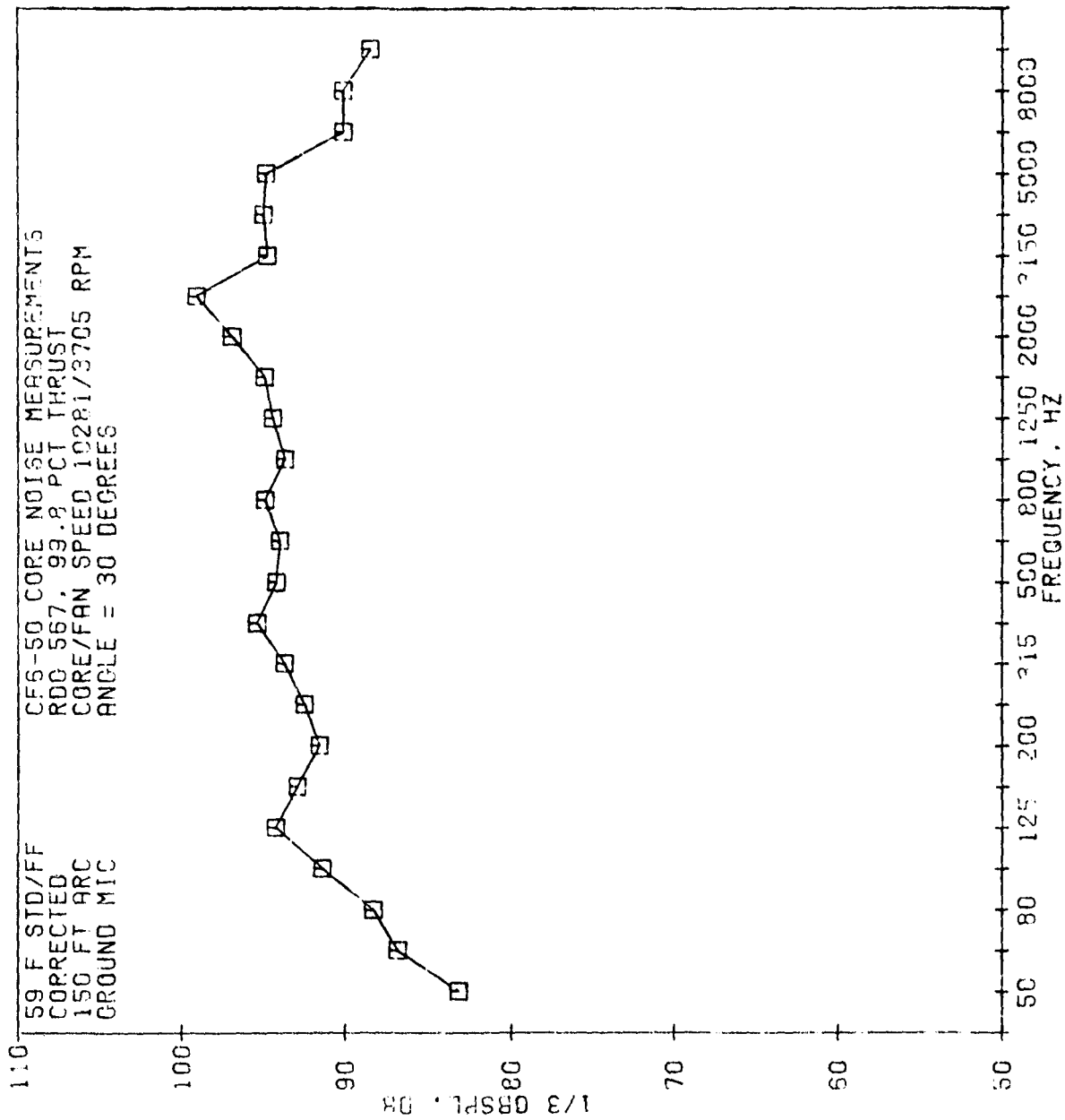
339

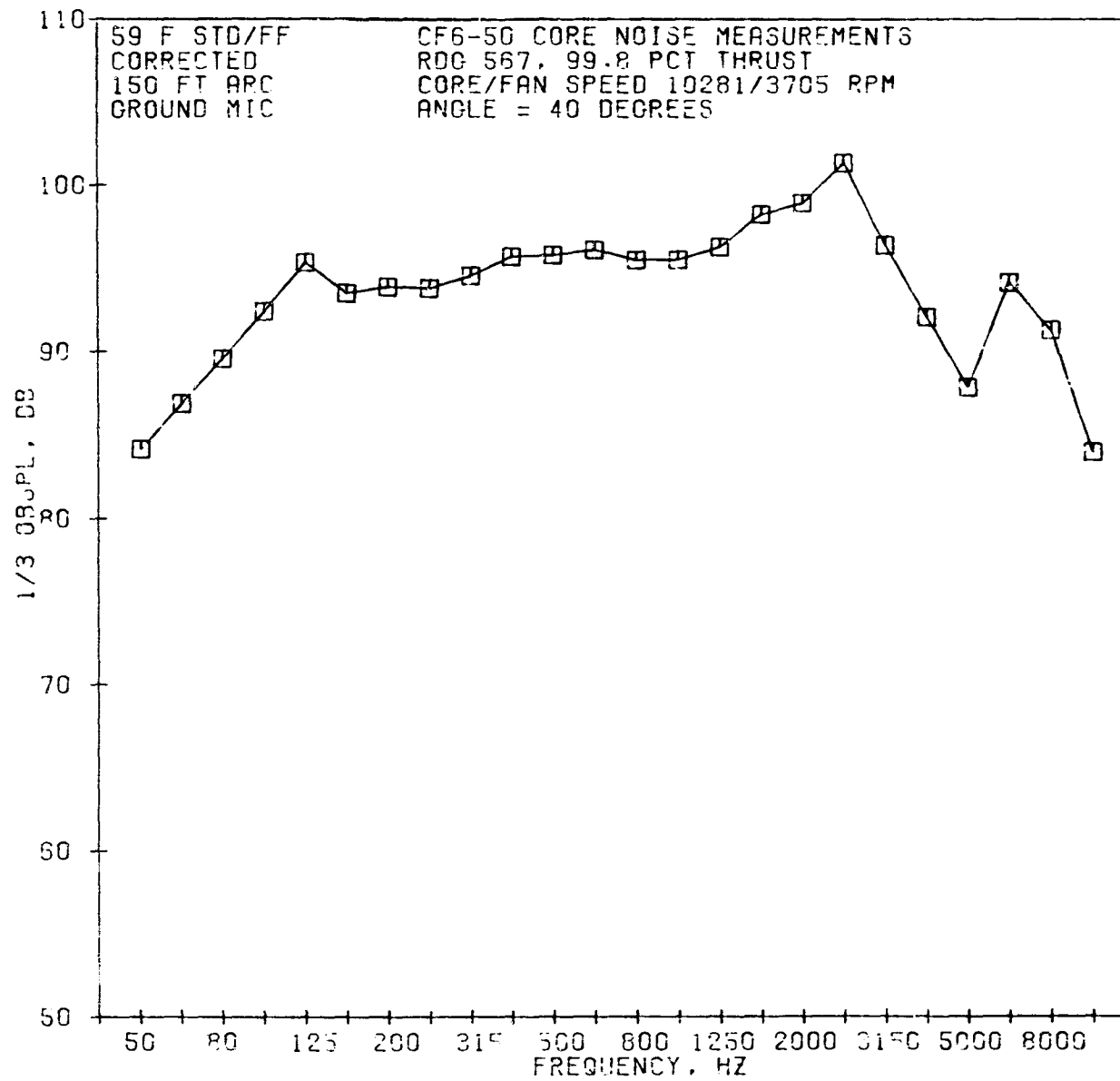
02/17/79

02 01 0000



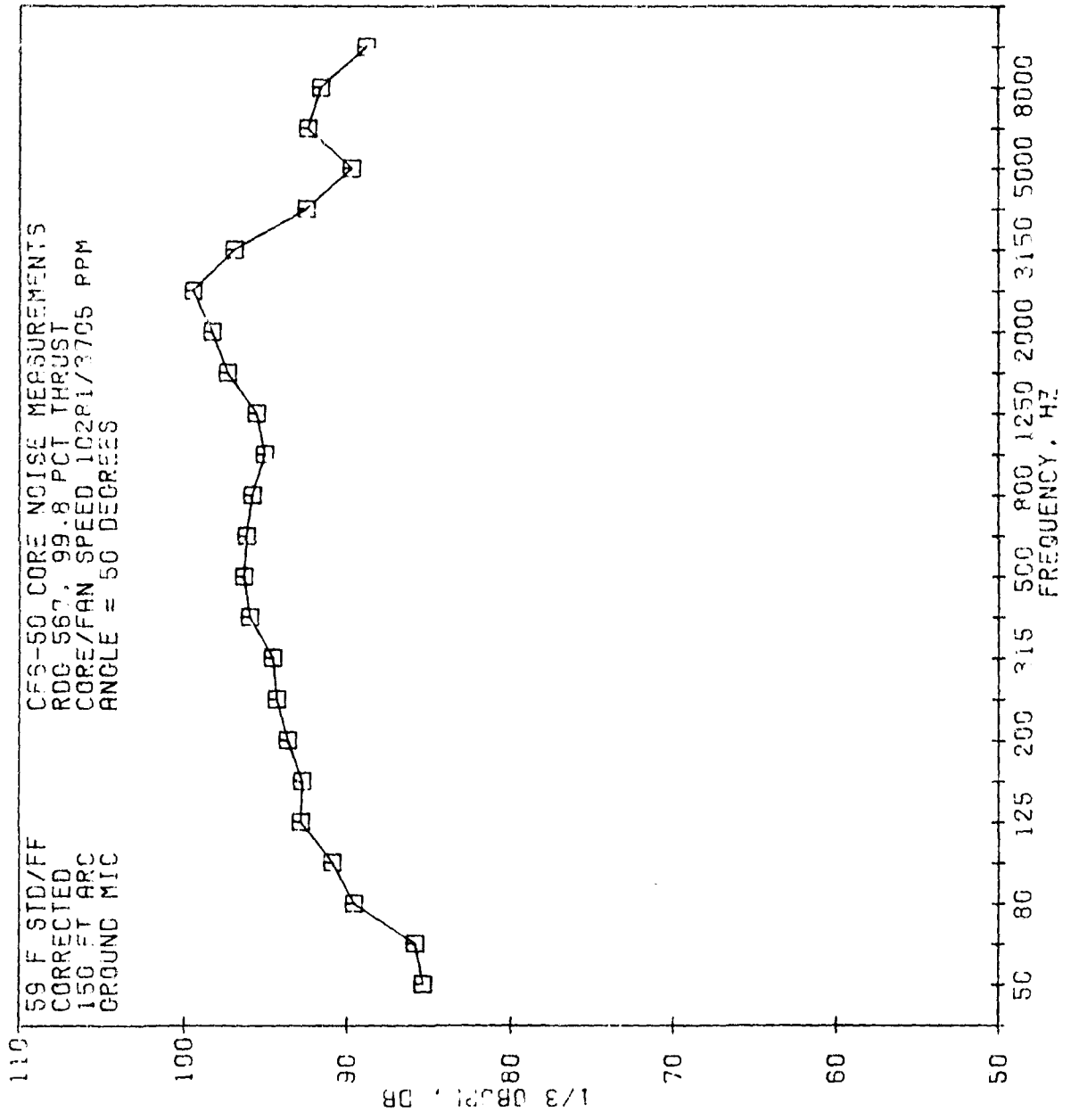
02/17/79



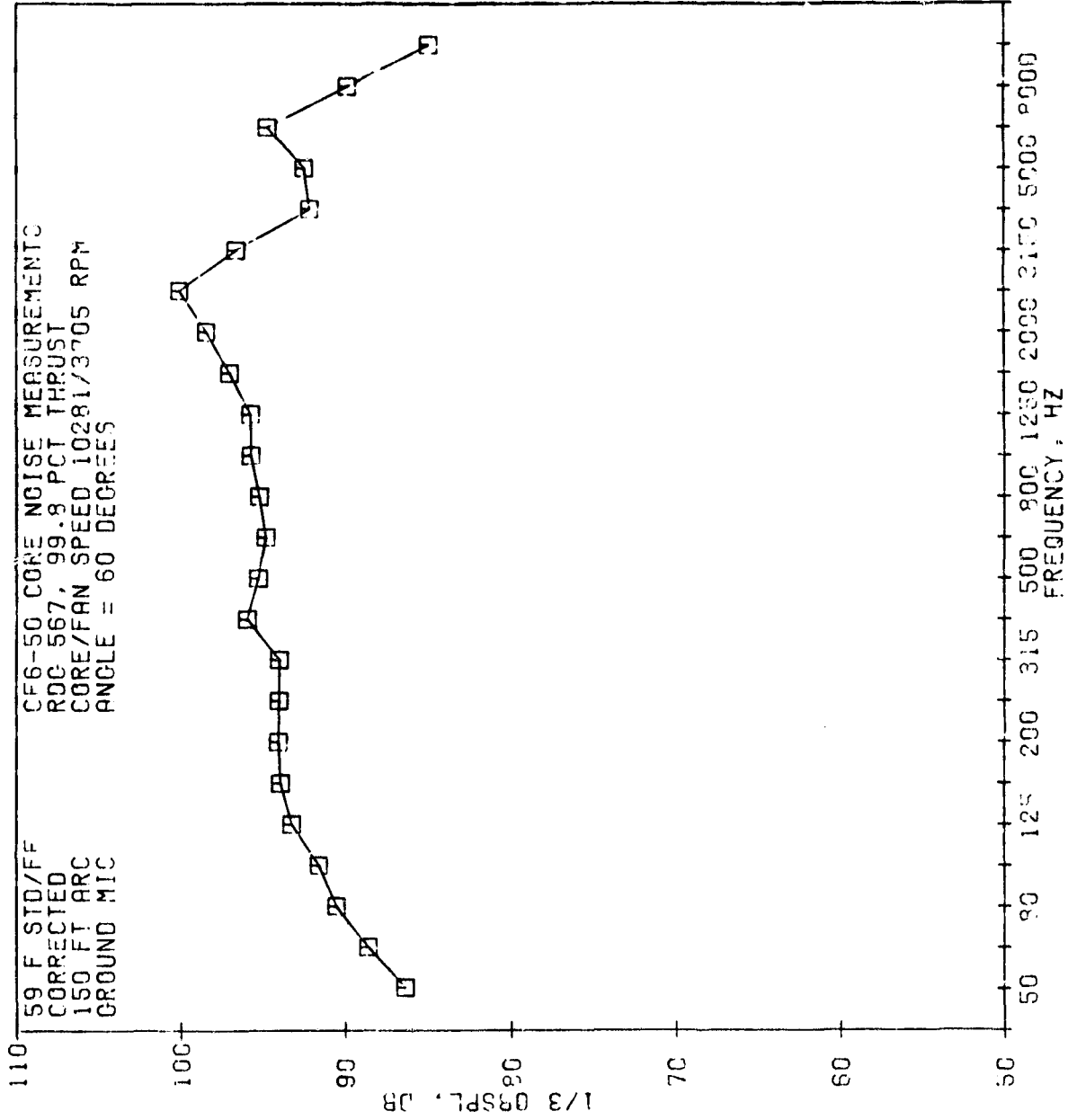


02/17/79

02/17/79

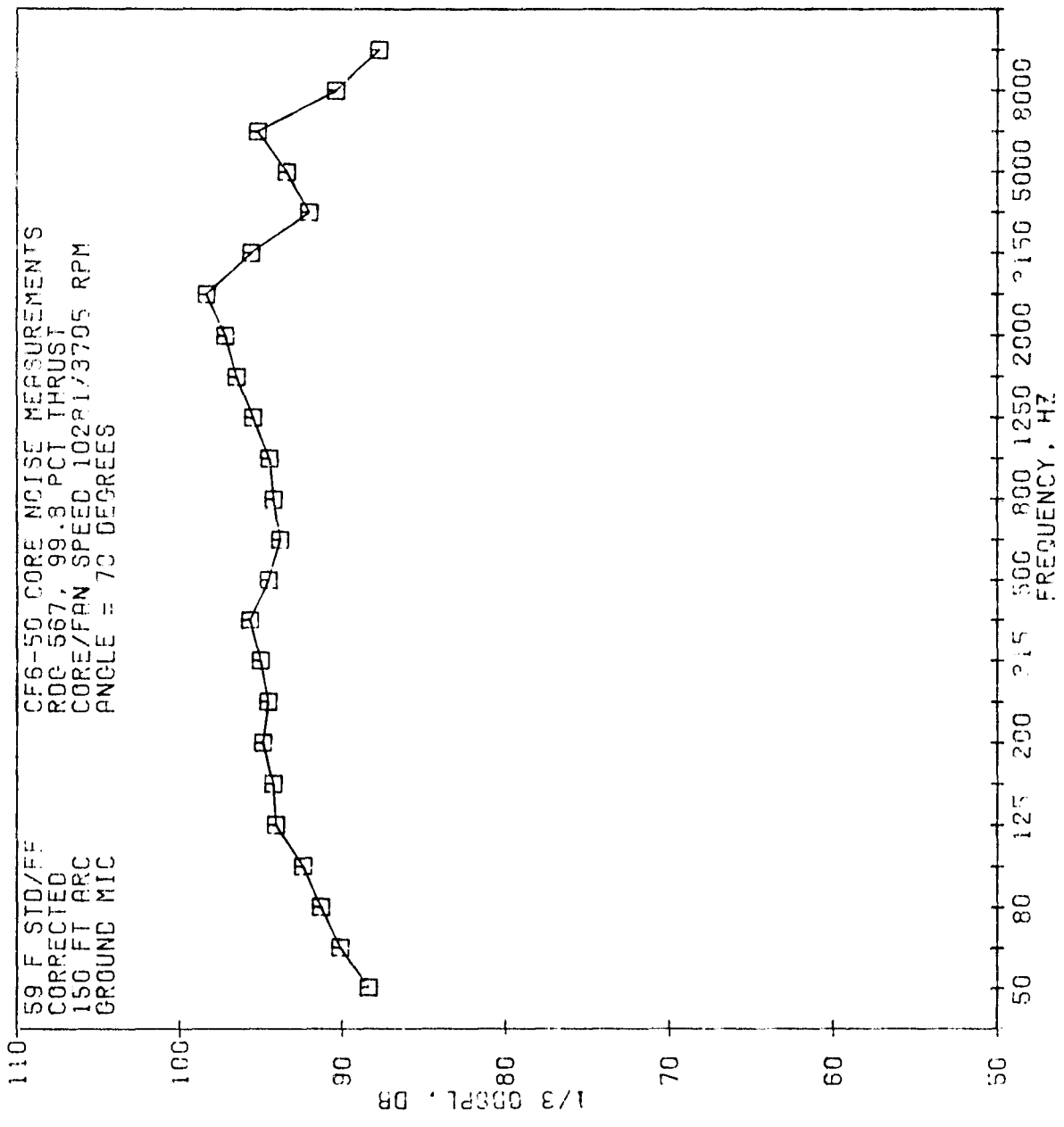


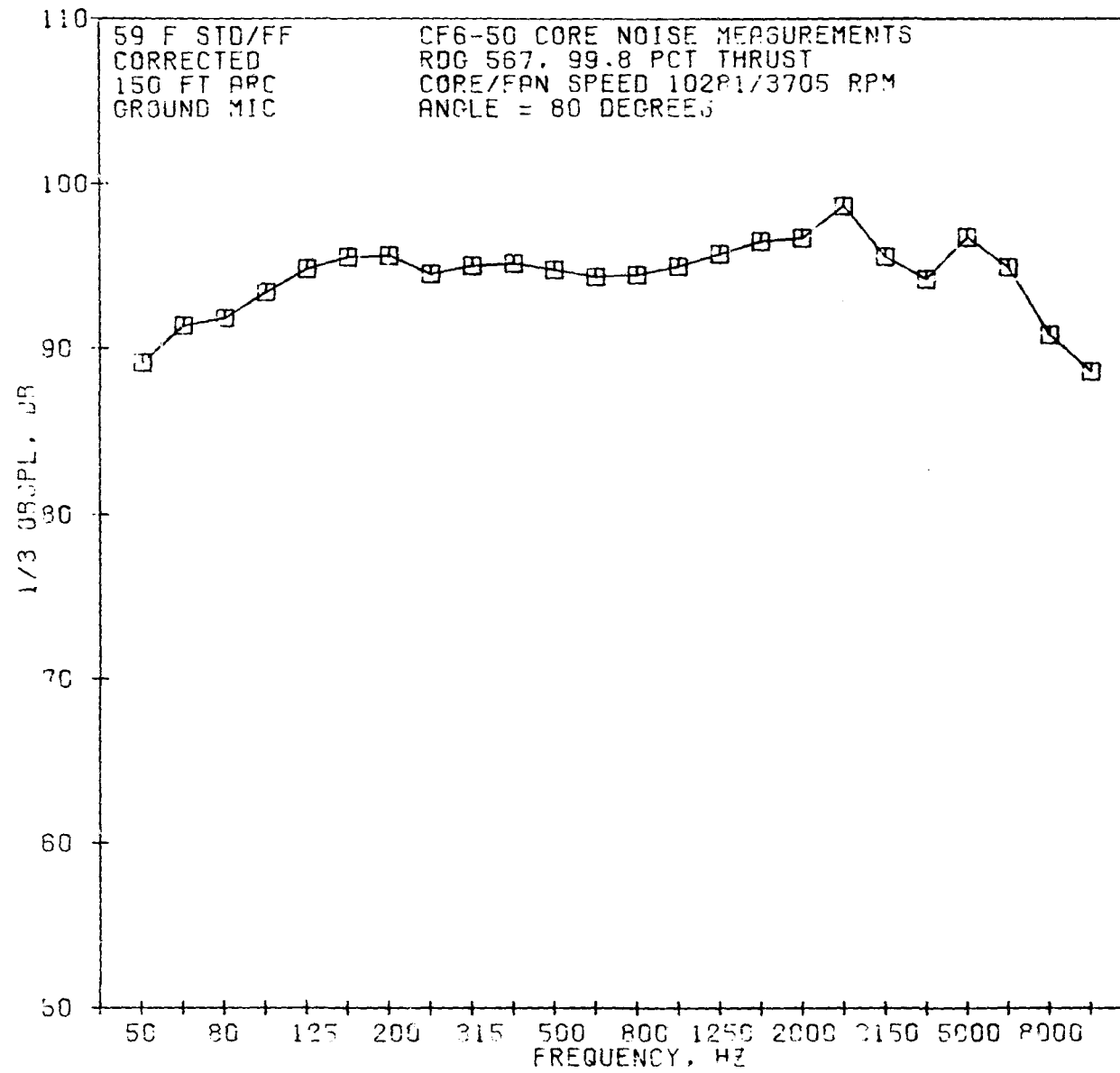
02/17/79



02/17/73

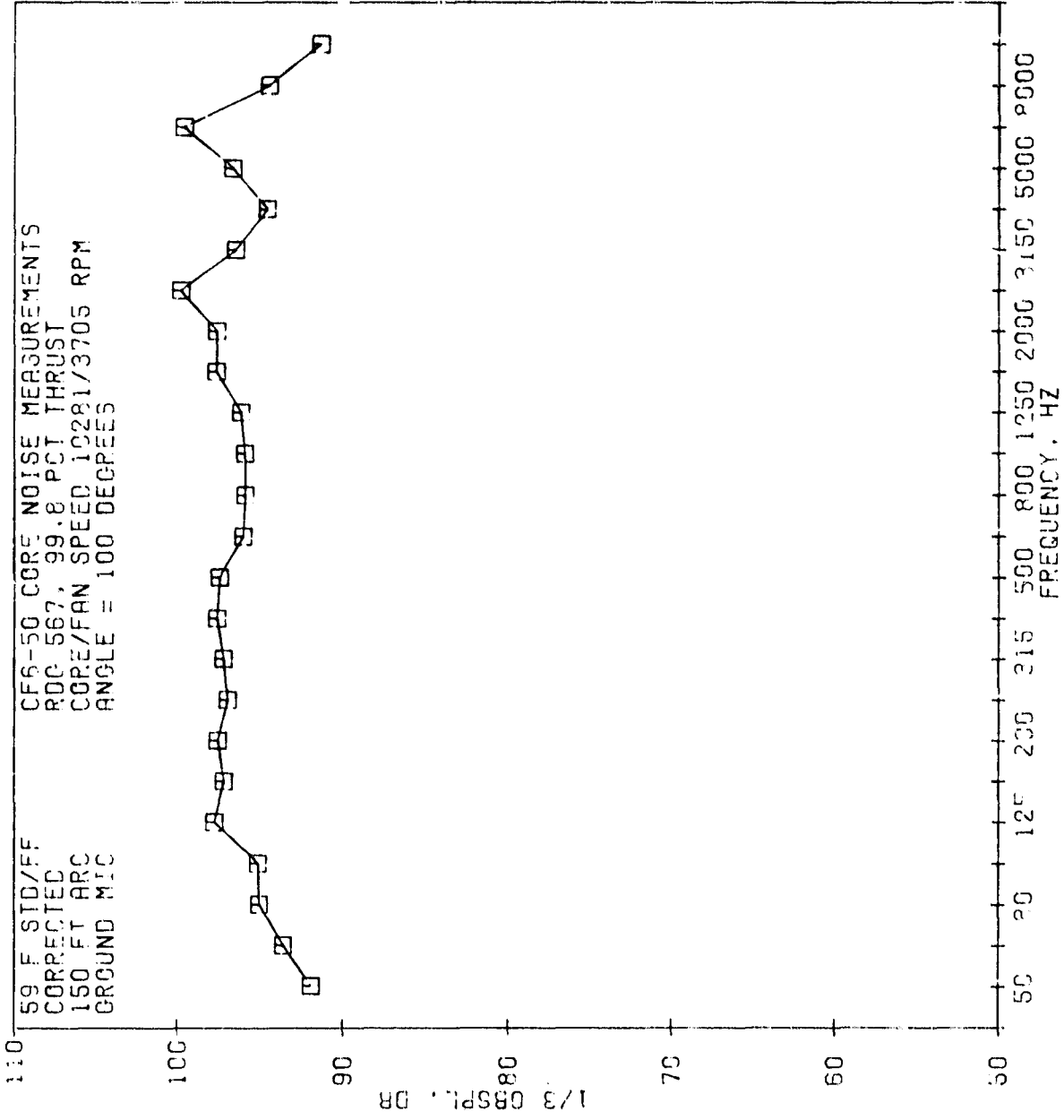
NO. 011-0001





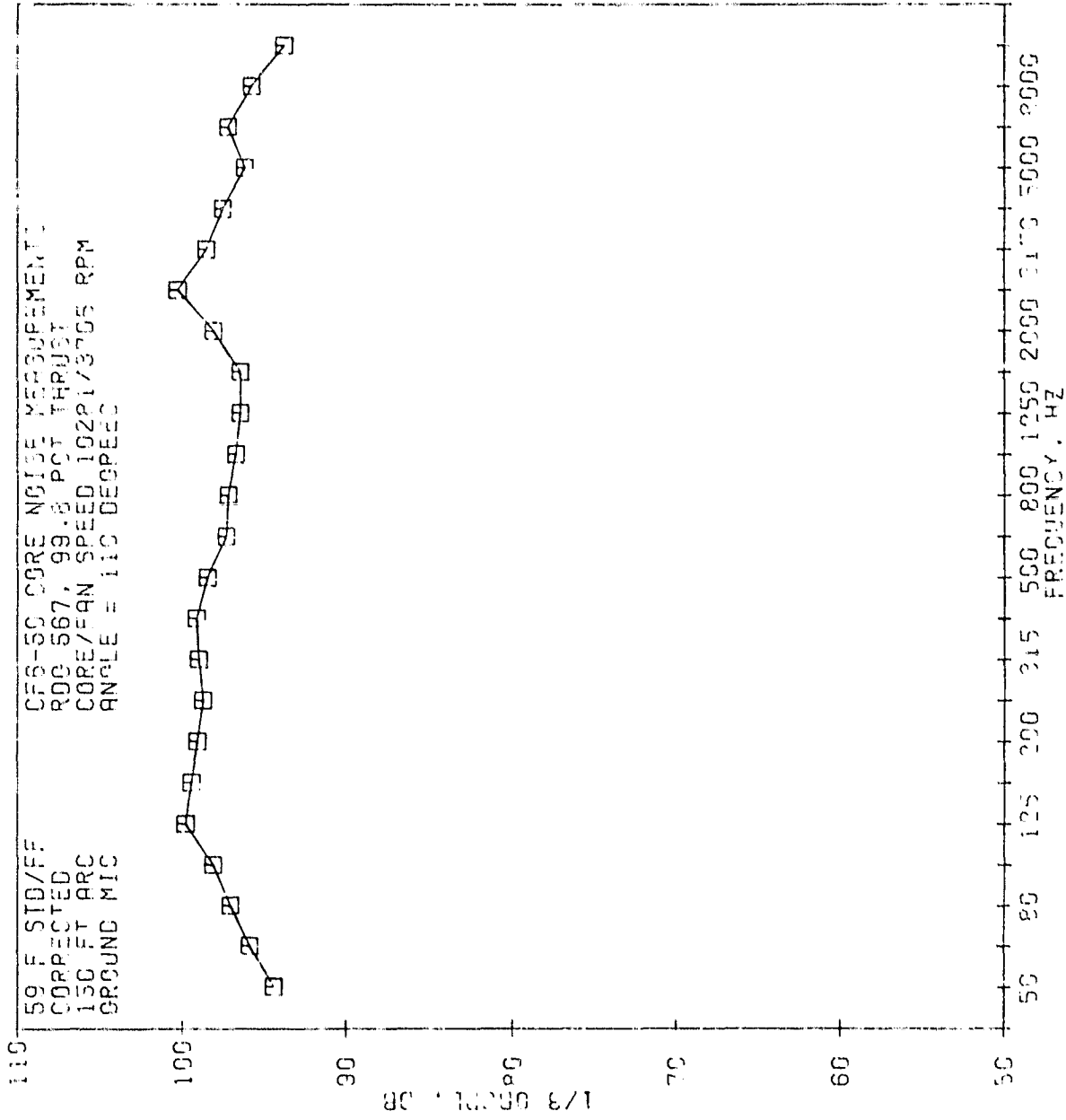
02/17/79

30 ON PAGE 1



22/17/73

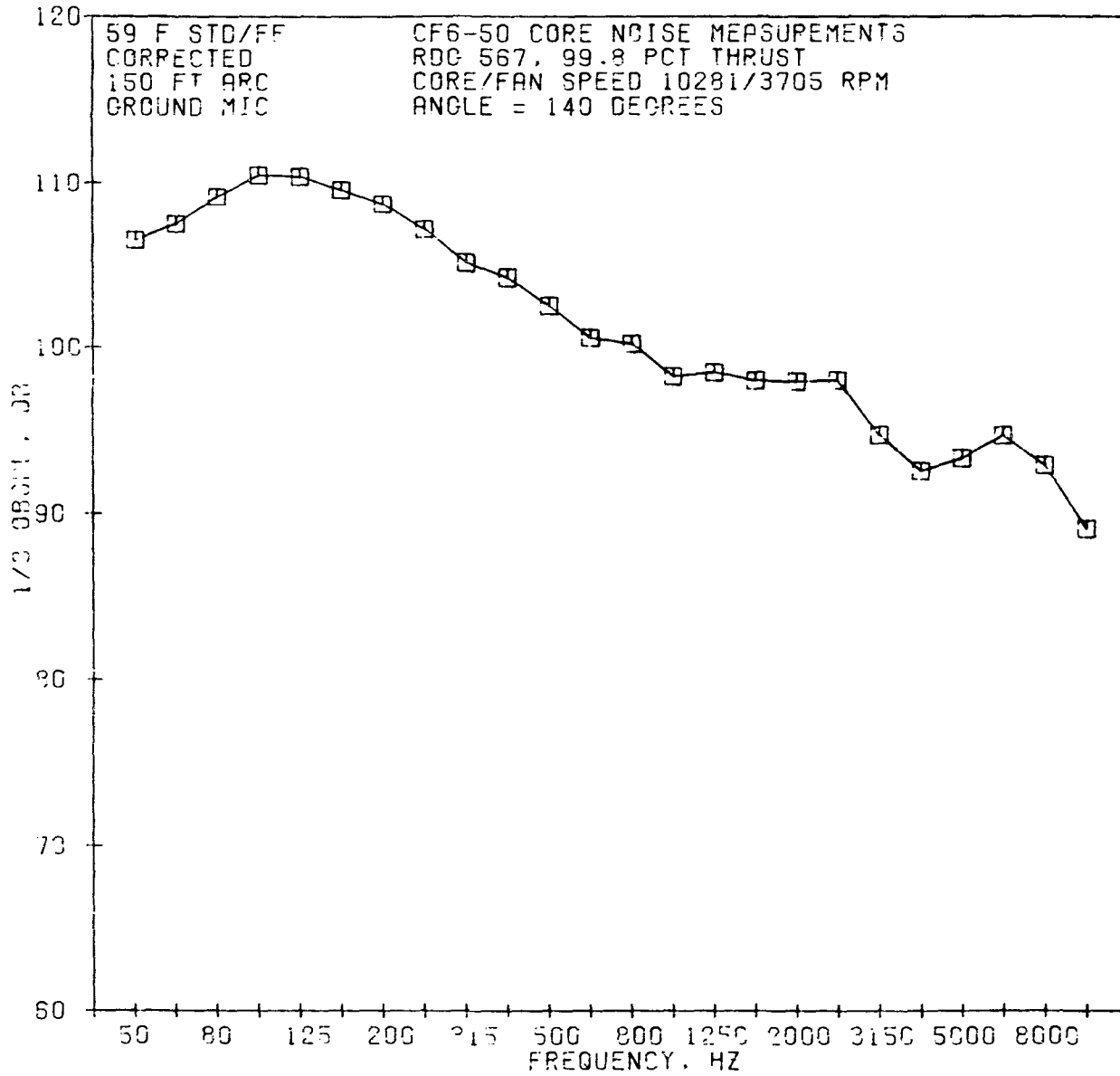
NOISE REPORT



02/17/79

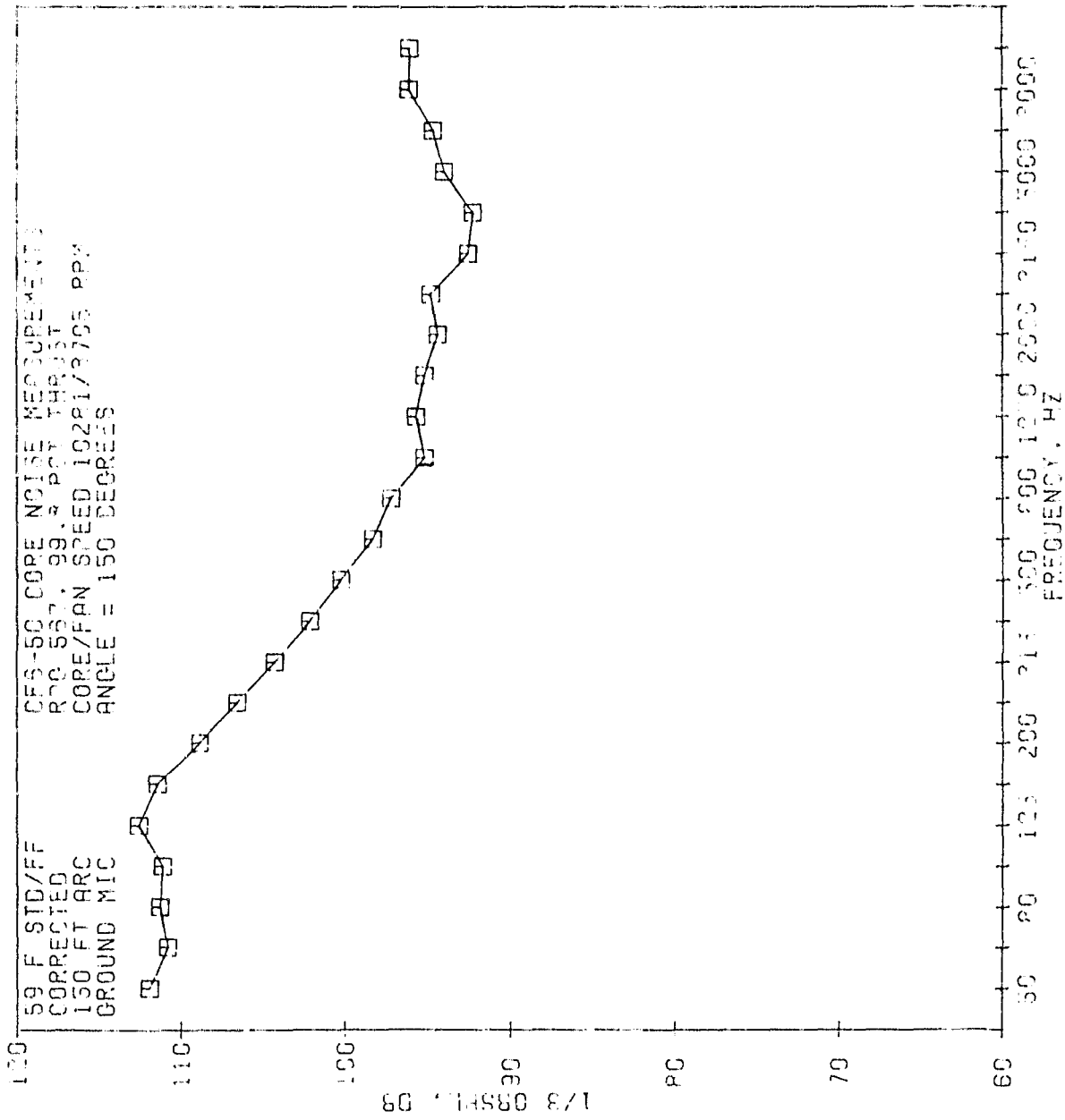
NOISE MEASUREMENT

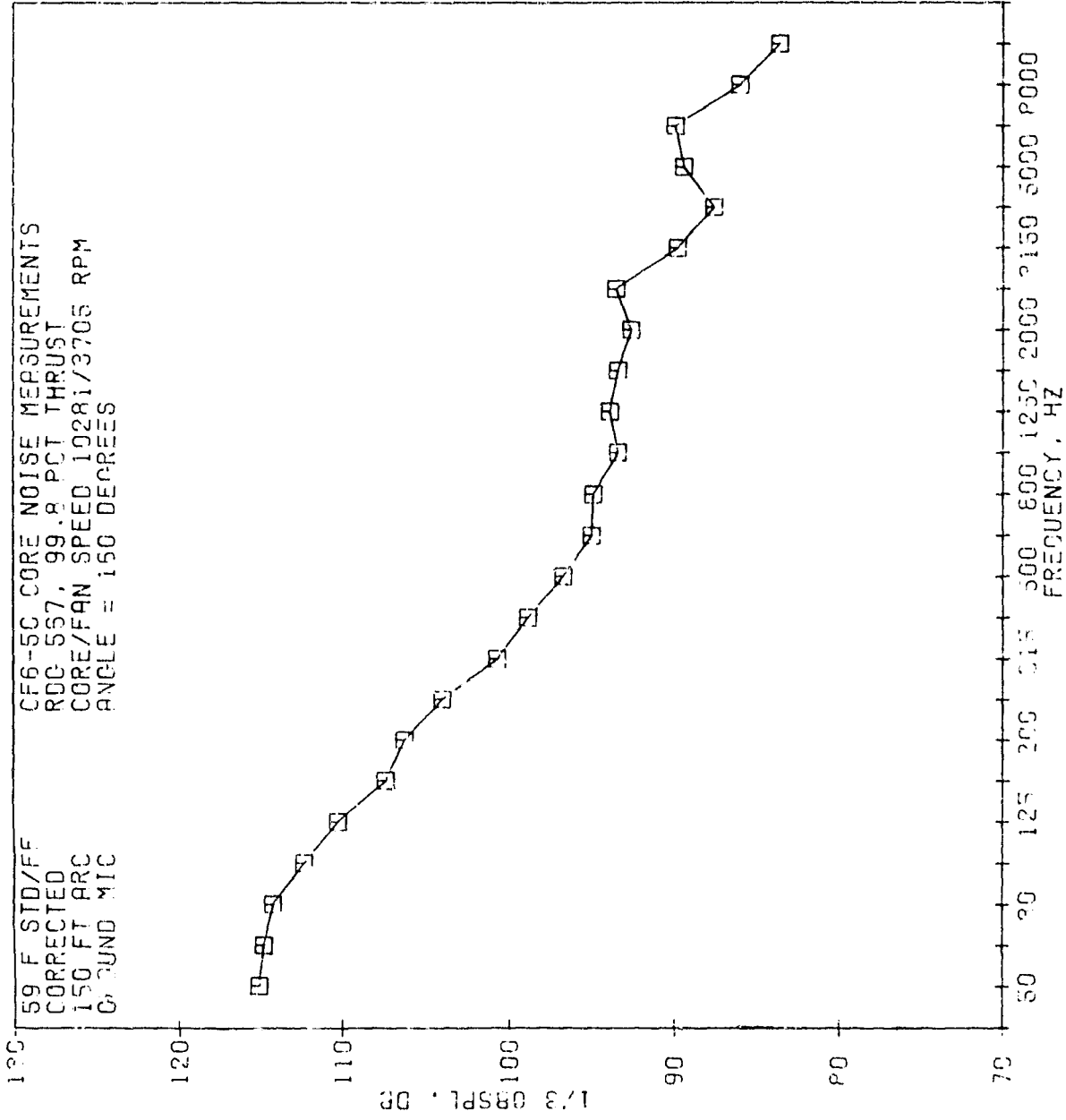
352



02/17/79

70-011000-1





02/17/79