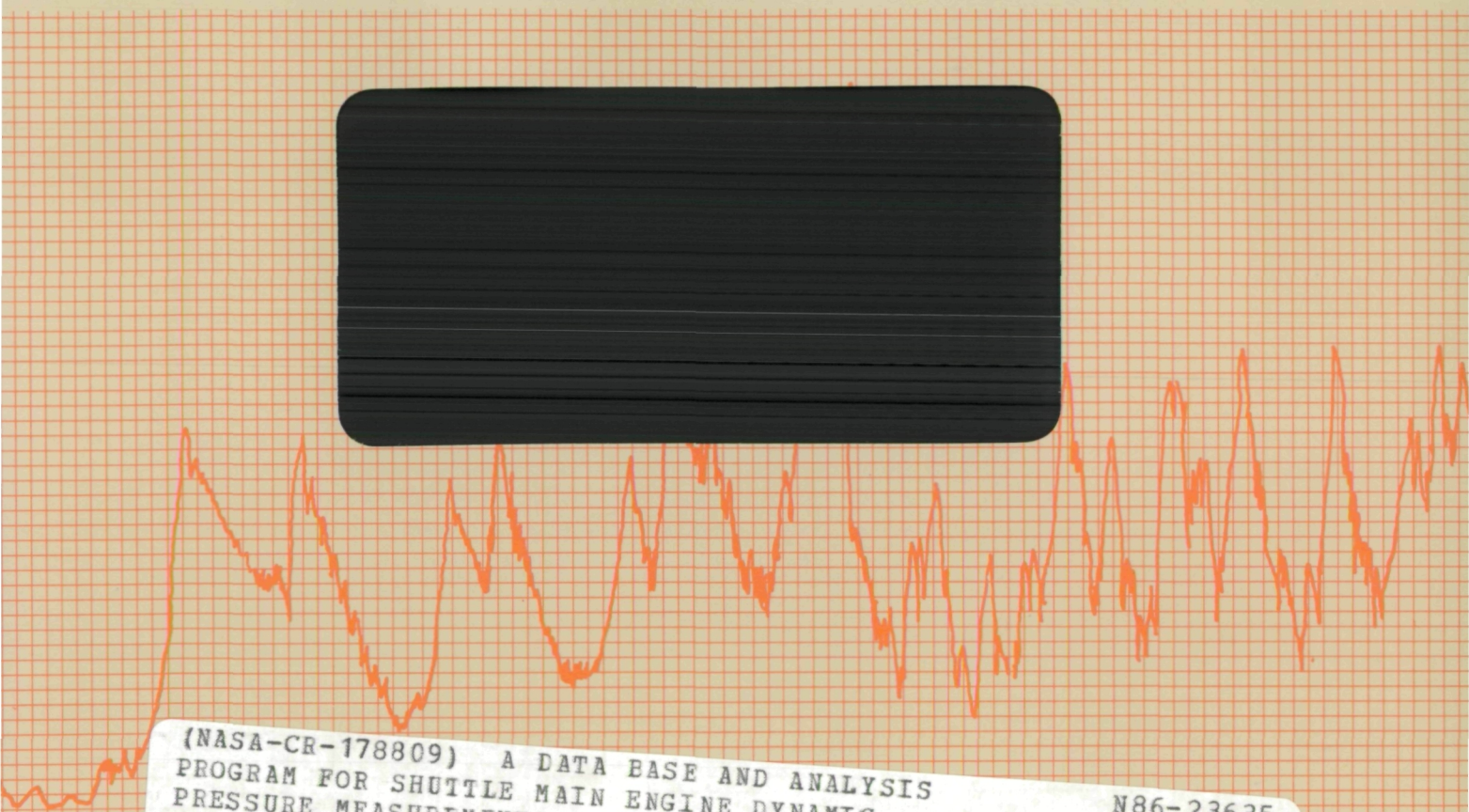
WYLE LABORATORIES
SCIENTIFIC SERVICES AND SYSTEMS GROUP



research REPORT

WYLE LABORATORIES - RESEARCH STAFF
TECHNICAL REPORT 66338-01

A DATA BASE AND ANALYSIS PROGRAM FOR SHUTTLE MAIN ENGINE DYNAMIC PRESSURE MEASUREMENTS APPENDIX B

DATA BASE PLOTS FOR SSME TESTS 901-290 through 901-414

by

Thomas Coffin

A final report of
work performed under contract NAS8-34343

for

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GEORGE C. MARSHALL SPACE FLIGHT CENTER
MARSHALL SPACE FLIGHT CENTER, ALABAMA 35812

January 1986

FOREWORD

This report describes a dynamic pressure data base and data base management system developed to characterize the Space Shuttle Main Engine (SSME) dynamic pressure environment. The data base represents dynamic pressure measurements obtained during single engine hot firing tests of the SSME. Software is provided to permit statistical evaluation of selected measurements under specified operating conditions. An interpolation scheme is also included to estimate spectral trends with SSME power level. This report was prepared by Wyle Laboratories Scientific Services and Systems Group for the National Aeronautics and Space Administration, George C. Marshall Space Flight Center. The work was performed under NASA contract NAS 8-34343, entitled "Flow Dynamic Environments in High Performance Rocket Engines."

The author wishes to acknowledge the contribution to this study by Dr. G. Meares, Chief Architect of the data base management software described herein. Messrs. B. Dobbs and D. Duck contributed long hours over a digitizer pad to accomplish data base input. The singular value decomposition software for spectrum interpolation was developed by Dr. J. Jong. Mr. T. Nesman, MSFC technical contract monitor, provided continuing support through informal project reviews and served as a focal point for definition of SSME data requirements.

DATA PLOT LISTING FOR TEST STAND A1

Test	Channel Descriptor (Time History or PSD)	Maximum Frequency (Hz)	Time Slice (Sec)
290	MMC HOT GAS IN PR	40,000	25
			55
			75
			195
			315
			435
			500
293	HPOP DS PR	20,000	10
			200
			400
			600
			800
	PBP DS PR		10
			200
			400
			600
			800
	OPB PC PR DC		10
			200
			400
			600
			800
294	HPOP DS PR	20,000	10
			40
			100
			300
			500
			645
			660
	PBP DS PR		10
			40
			100
			300
			500
			645
			660
	OPB PL		10
			40
			100
			300
			500
			645
			660

DATA PLOT LISTING FOR TEST STAND A1 (Continued)

Test	Channel Descriptor (Time History or PSD)	Maximum Frequency (Hz)	Time Slice (Sec)
294	HPOP IN PR	20,000	10
			40
			100
			300
			500
			645
			660
295	HPOP DS PR		20
			45
			100
			300
			450
			500
	PBP DS PR		20
			45
			100
			300
			450
			500
	HPOP IN PR		20
			45
			100
			300
			450
			500
	OPB PC PR DC		20
			45
			100
			300
			450
			500
297	HPOP DS PR		6
	PBP DS PR		
	OPB PC PR DC		
299	HPOP DS PR		6
	PBP DS PR		
	HPOP IN PR		
	AUX LX I PR		
	OPB PC PR DC		
300	PBP DS PR		
	HPOP IN PR		
	OPB PC PR DC		

DATA PLOT LISTING FOR TEST STAND A1 (Continued)

Test	Channel Descriptor (Time History or PSD)	Maximum Frequency (Hz)	Time Slice (Sec)
301	HPOP DS PR	20,000	100
			250
			400
	PBP DS PR		100
			250
			400
	OPB PC PR DC		100
			250
			400
303	HPOP DS PR		5
			30
			45
	PBP DS PR		5
			30
			45
	HPOP IN PR		5
			30
			45
	OPB PC PR DC		5
			30
			45
304	HPOP DS PR		5
			50
			75
	PBP DS PR		5
			50
			75
	LPFP DS PR		5
			50
			75
	FPB FUEL MAN PR		5
			50
			75
	HPOP IN PR		5
			50
			75
	HI LX I PR		5
			50
			75
305	HPOP DS PR		5
			25
			50
			75

DATA PLOT LISTING FOR TEST STAND A1 (Continued)

Test	Channel Descriptor (Time History or PSD)	Maximum Frequency (Hz)	Time Slice (Sec)
305	PBP DS PR	20,000	5
			25
			50
			75
	FPB FUEL MAN PR		5
			25
			50
			75
	HPOP IN PR		5
			25
			50
			75
	HI LX I PR		5
			25
			50
			75
306	HPOP DS PR		5
			6
			35
			70
	MCC HOT GAS IN PR	40,000	5
			20
			50
			75
	PBP DS PR	20,000	5
			35
			70
	FPB FUEL MAN PR		5
			20
			50
			75
	HPOP IN PR		5
			20
			50
			75
	HI LX I PR		5
			20
			50
			75
307	HPOP DS PR		5
			20
			45
			70

DATA PLOT LISTING FOR TEST STAND A1 (Continued)

Test	Channel Descriptor (Time History or PSD)	Maximum Frequency (Hz)	Time Slice (Sec)
307	MCC HOT GAS IN PR	40,000	5
			20
			45
			70
	PBP DS PR	20,000	5
			20
			45
			70
	FPB FUEL MAN PR		5
			20
			45
			70
	HPOP IN PR		5
			20
			45
			70
	HI LX I PR		5
			20
			70
309	HPOP DS PR		6
			30
	MCC HOT GAS IN PR		6
			24
	PBP DS PR		6
			30
	HPOP IN PR		6
			24
	HI LX I PR		6
			24
310	HPOP DS PR		6
			30
	MCC HOT GAS IN PR		6
			30
	PBP DS PR		6
			30
	HPOP IN PR	2,000	6
			30
	HI LX I PR	20,000	6
			30
311	HPOP DS PR		6
			30
	MCC HOT GAS IN PR		6
			30
	PBP DS PR		6
			30

DATA PLOT LISTING FOR TEST STAND A1 (Continued)

Test	Channel Descriptor (Time History or PSD)	Maximum Frequency (Hz)	Time Slice (Sec)
311	HPOP IN PR	20,000	6
			30
	HI LX I PR		6
			30
312	MCC HOT GAS IN PR		6
			40
	HPOP IN PR		6
			40
	HI LX I PR		6
313	MCC HOT GAS IN PR		4
			30
	HPOP IN PR		4
			30
	HI LX I PR		3
			30
314	HPOP DS PR		6
			30
	MCC HOT GAS IN PR		6
			30
		40,000	6
			30
	PBP DS PR	20,000	6
			30
	HPOP IN PR		6
			30
	HI LX I PR		6
			30
315	HPOP DS PR		4
			30
	MCC HOT GAS IN PR		30
			60
	PBP DS PR		4
			30
316	HPOP DS PR		4
			11
	MCC HOT GAS IN PR		4
			11
		40,000	4
			11
	PBP DS PR	20,000	4
			11
	OPB PC PR DC		4
			11
317	HPOP DS PR		4
			11

DATA PLOT LISTING FOR TEST STAND A1 (Continued)

Test	Channel Descriptor (Time History or PSD)	Maximum Frequency (Hz)	Time Slice (Sec)
317	MCC HOT GAS IN PR	20,000	4
			11
		40,000	4
			11
	PBP DS PR	20,000	4
			11
	OPB PC PR DC		4
			11
319	HPOP DS PR		6
			30
			92
	MCC HOT GAS IN PR		6
			30
			92
	PBP DS PR		6
			30
			92
	MCC IN PR	40,000	12
			60
			180
	OPB PC PR DC	20,000	6
			30
			92
321	MCC HOT GAS IN PR		6
			30
			90
			100
			270
		40,000	6
			30
			90
			100
			270
	FPB PC	20,000	6
			30
			90
			100
			270
	OPB PC PR DC		6
			30
			90
			100
			270

DATA PLOT LISTING FOR TEST STAND A1 (Continued)

Test	Channel Descriptor (Time History or PSD)	Maximum Frequency (Hz)	Time Slice (Sec)
322	HPOP DS PR	20,000	6
			130
			170
			190
			210
			230
			260
			280
	MCC HOT GAS IN PR		6
			130
			150
			170
			190
			210
			230
			260
			280
	PBP DS PR		6
			130
			150
			170
			190
			210
			230
			264
			284
	FPB PC		6
			130
			150
			170
			190
			210
			230
			260
			280
	OPB PC PR DC		6
			130
			150
			170
			190
			210
			230
			260
			280

DATA PLOT LISTING FOR TEST STAND A1 (Continued)

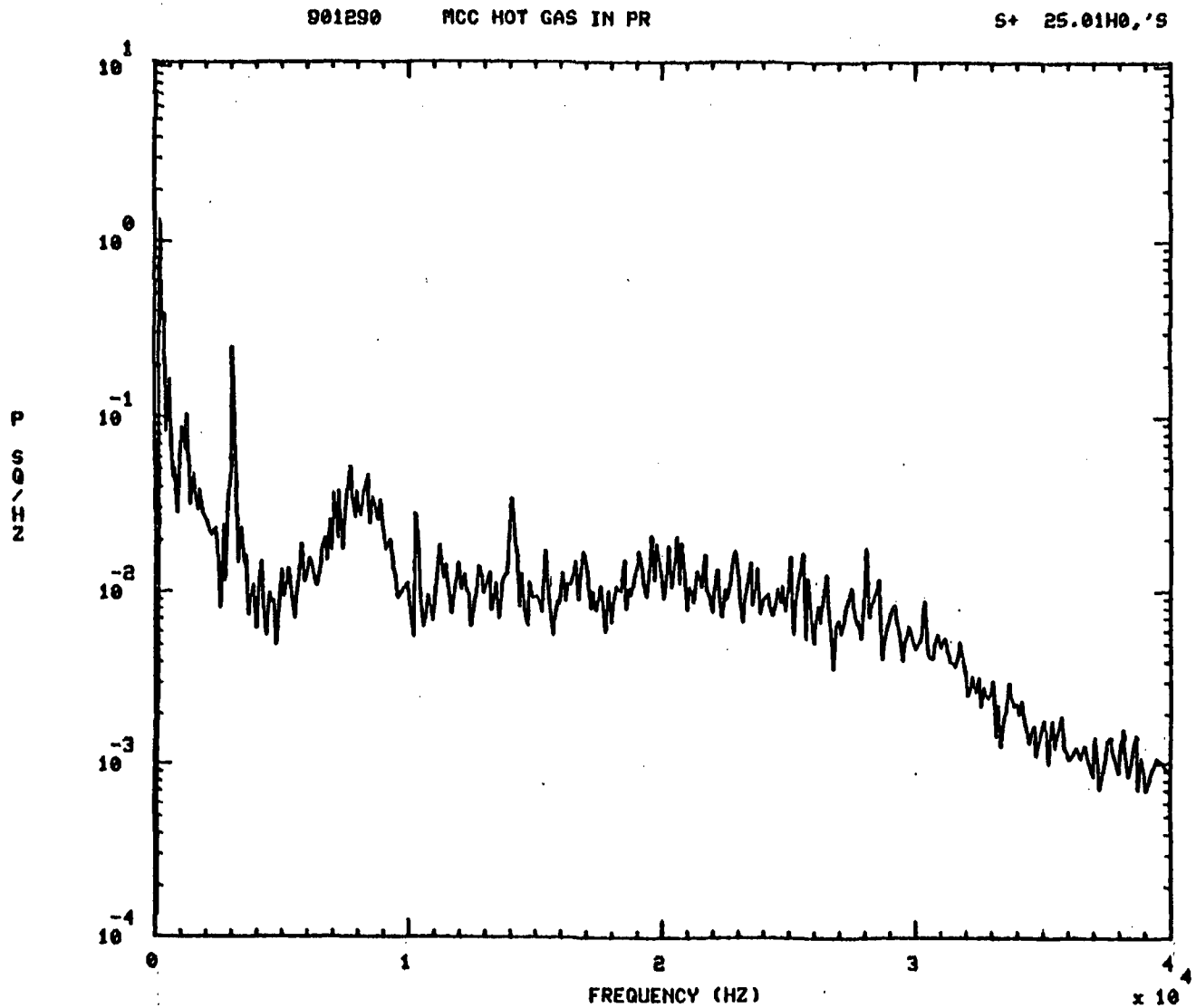
Test	Channel Descriptor (Time History or PSD)	Maximum Frequency (Hz)	Time Slice (Sec)
384	THRUST		
385			
388			
389			
390			
391			
393			
394			
395			
397			
398			
400			
401			
402			
403			
404	HPOP BAL CAV PR2	20,000	20
			100
			220
	HPOP BAL CAV PR1		20
			100
			220
	OPB PC PR		20
			100
			220
	HPFP BAL CAV PR		20
			100
			220
	FPB PC		20
			100
			220
405	THRUST		
406			
407			
	HPOP BAL CAV PR2	20,000	20
			45
			75
			200
			400
			430
	HPOP BAL CAV PR1		20
			45
			75
			200
			400
			430

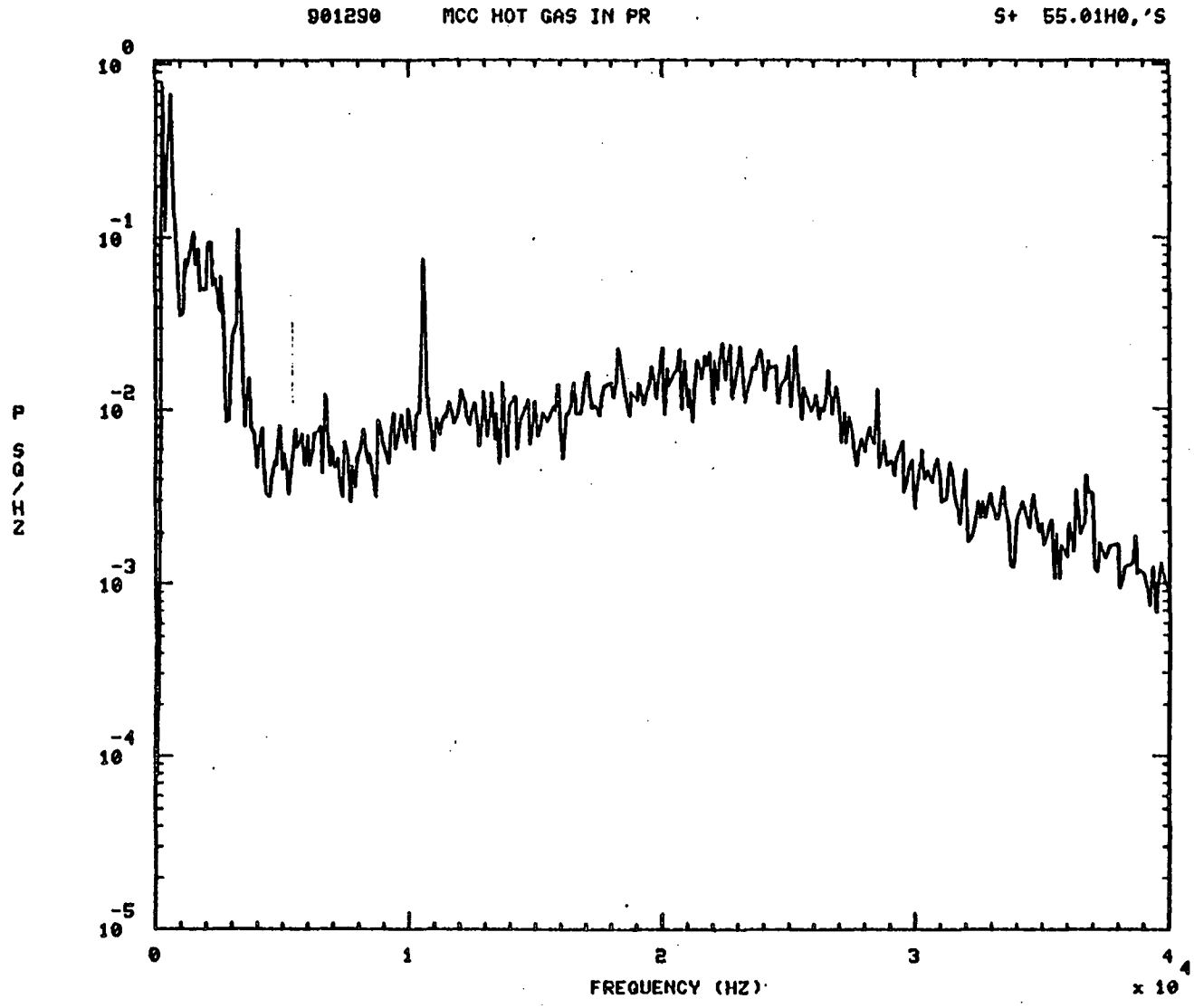
DATA PLOT LISTING FOR TEST STAND A1 (Continued)

Test	Channel Descriptor (Time History or PSD)	Maximum Frequency (Hz)	Time Slice (Sec)
407	FPB PC	20,000	20
			45
			75
			200
			400
			430
	OPB PC PR		20
			45
			75
			200
			400
			430
	HPFP BAL CAV PR		20
			45
			75
			200
			400
			430
408	THRUST		
409			
	HPOP BAL CAV PR2	20,000	15
			240
			500
			525
			705
			725
	HPOP BAL CAV PR1		15
			240
			500
			525
			705
			725
	OPB PC PR		15
			240
			500
			525
			705
			725
	HPFP BAL CAV PR		15
			240
			500
			525
			705
			725

DATA PLOT LISTING FOR TEST STAND A1 (Concluded)

Test	Channel Descriptor (Time History or PSD)	Maximum Frequency (Hz)	Time Slice (Sec)
409	FPB PC	20,000	7
↓	↓	↓	240
			500
			525
			705
			725
410	THRUST		
413	↓		
414			


901290 MCC HOT GAS IN PR
S+ 25.01H0,'S
P SQ\HZ
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
3
4
FREQUENCY (HZ)
x 10^4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S+ 55.01H0,'S
P SQ\HZ
FREQUENCY (HZ)
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10^0
10^-1
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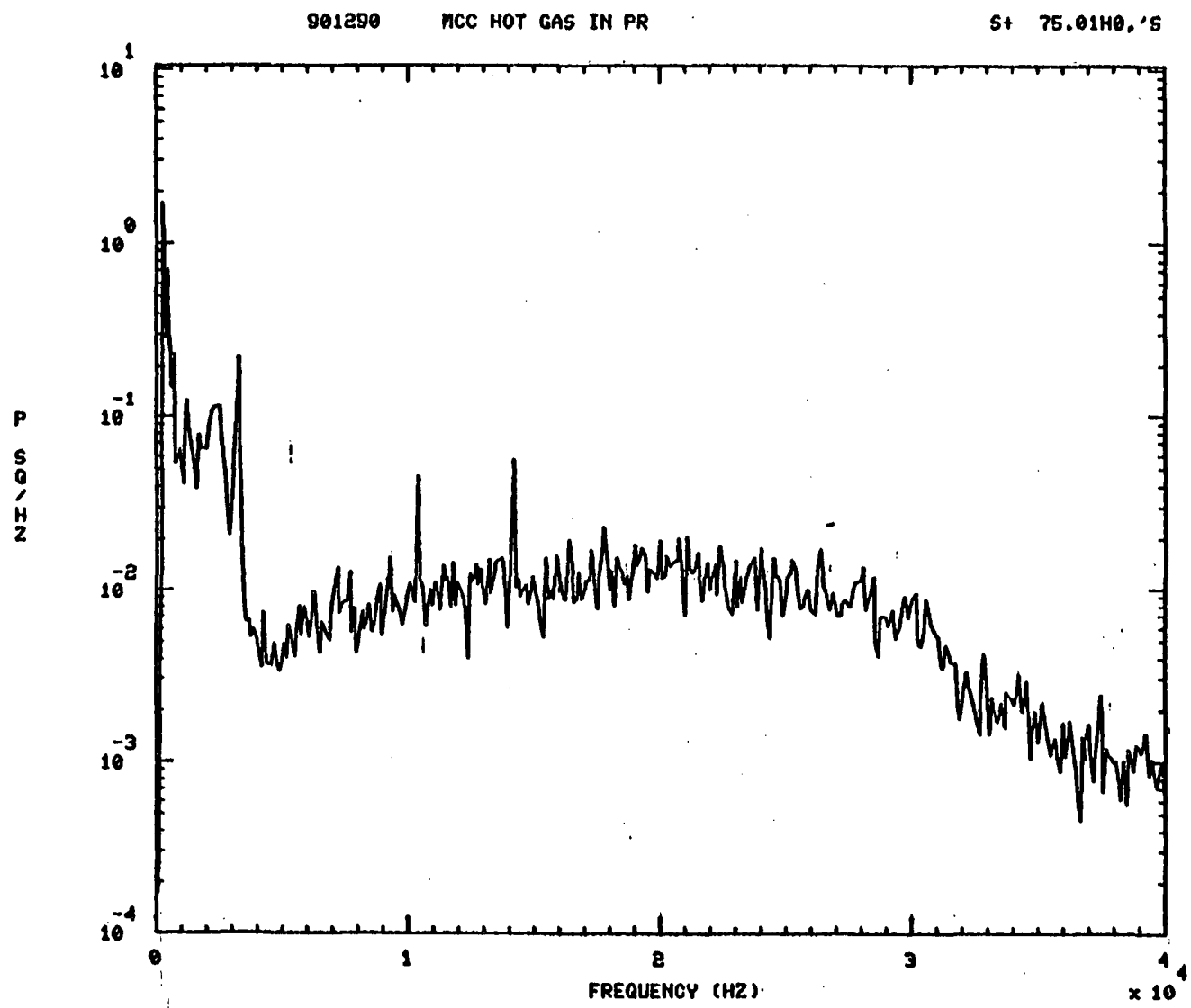
0
1
2
3
4


901290 MCC HOT GAS IN PR
S+ 75.01H0,'S
P SQ\HZ
FREQUENCY (HZ)
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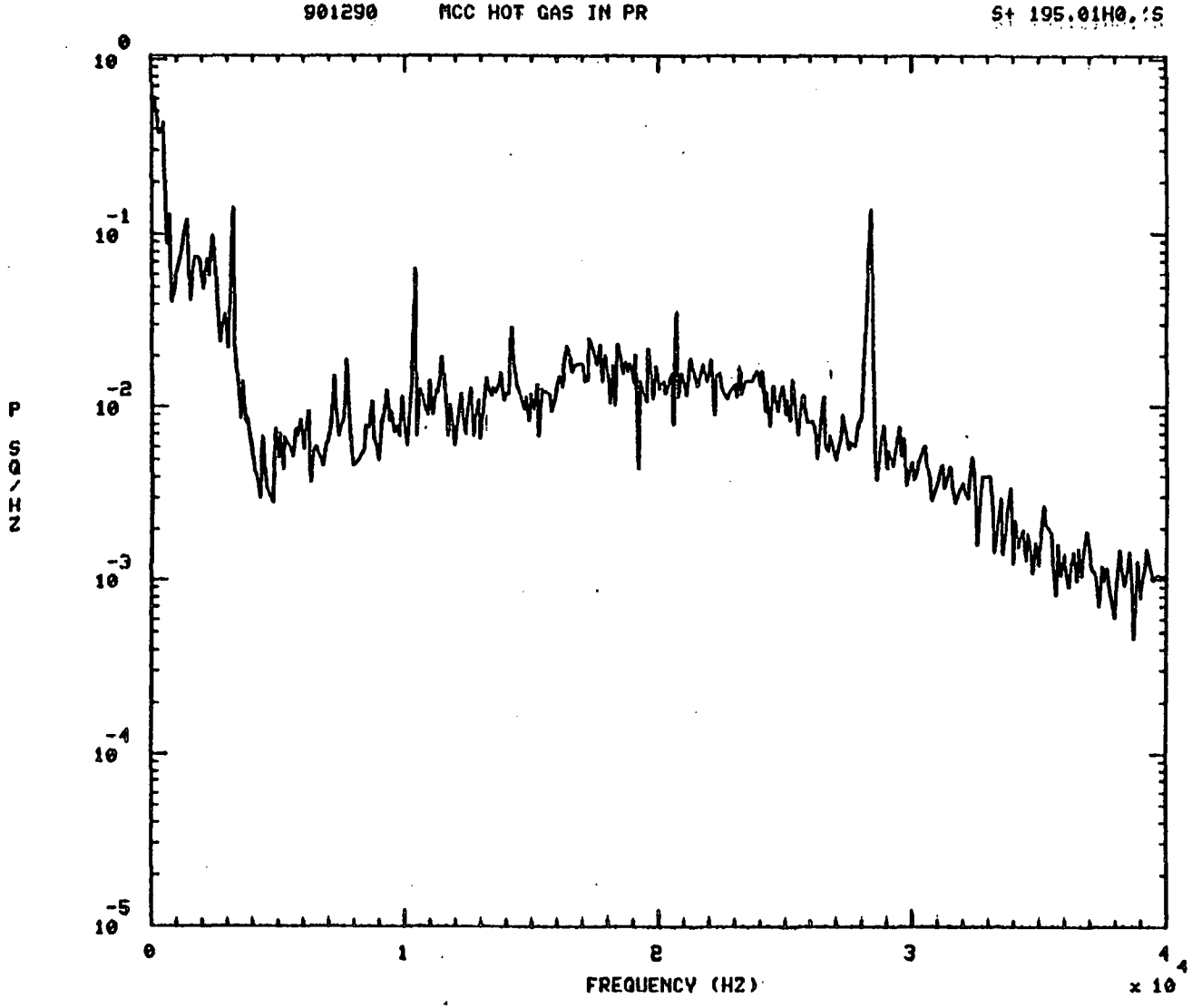
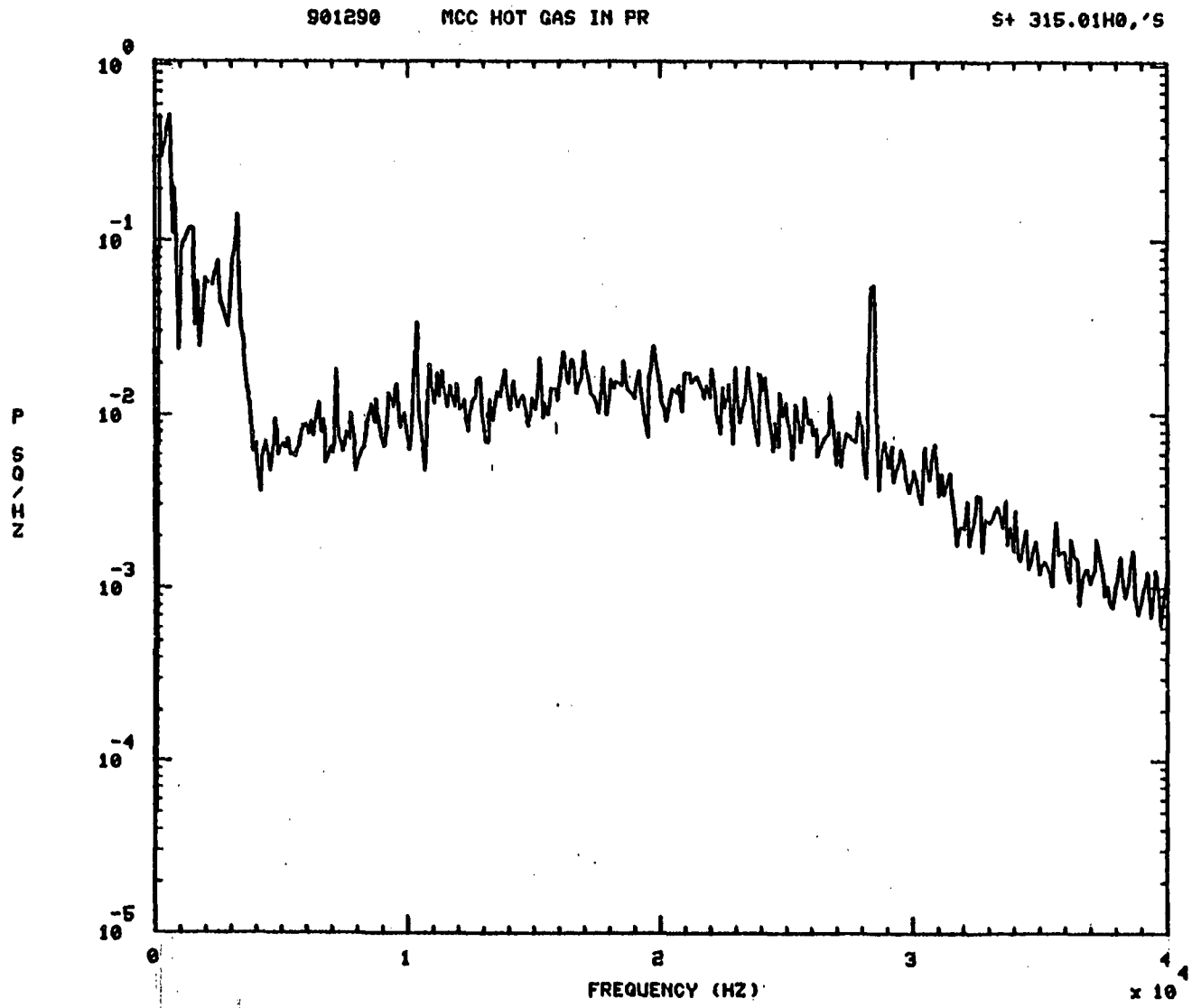
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
3
4


901290 MCC HOT GAS IN PR
S+ 195.01H0.1S
P
SQ/HZ
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
3
4
FREQUENCY (HZ)
x 10^4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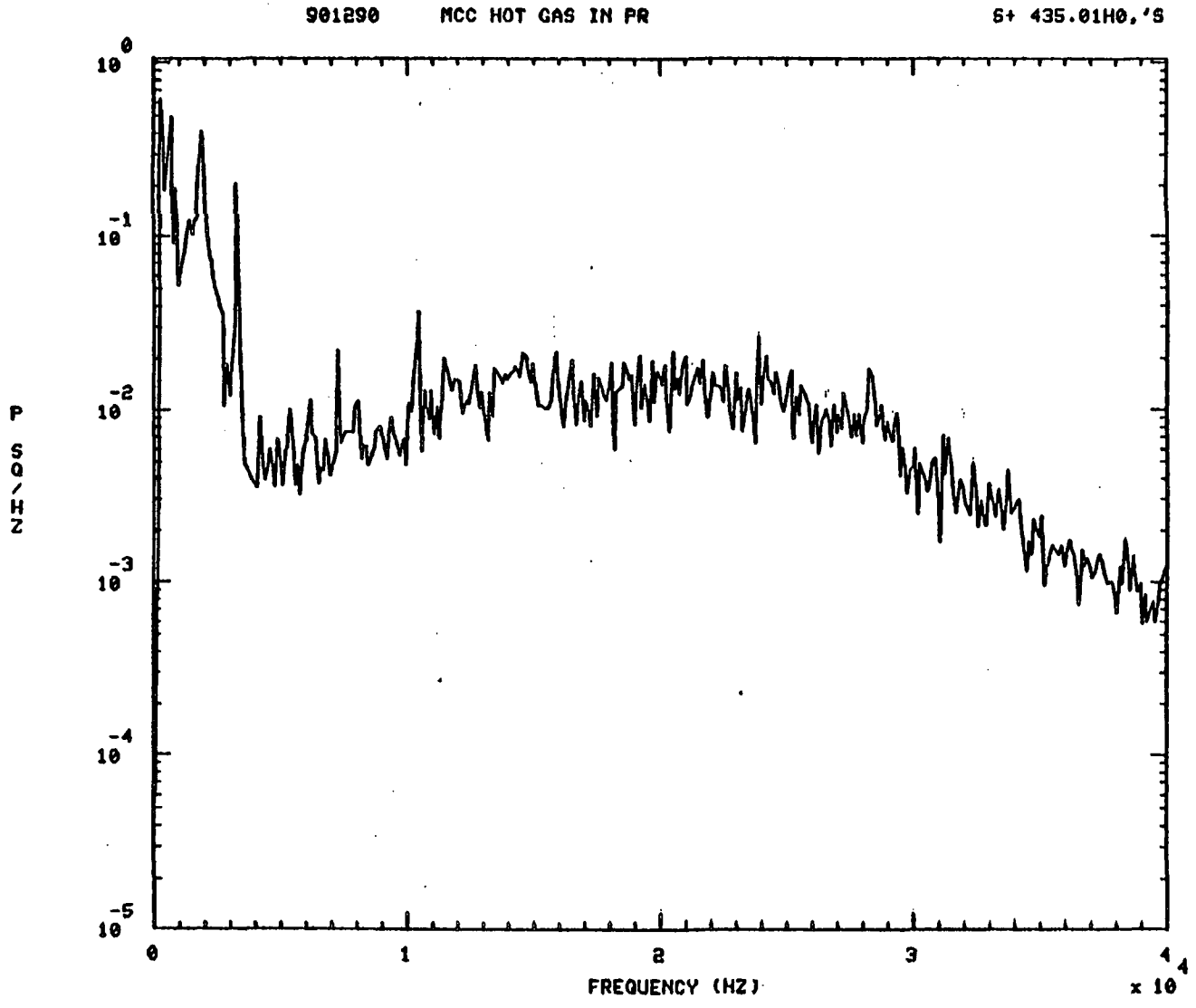
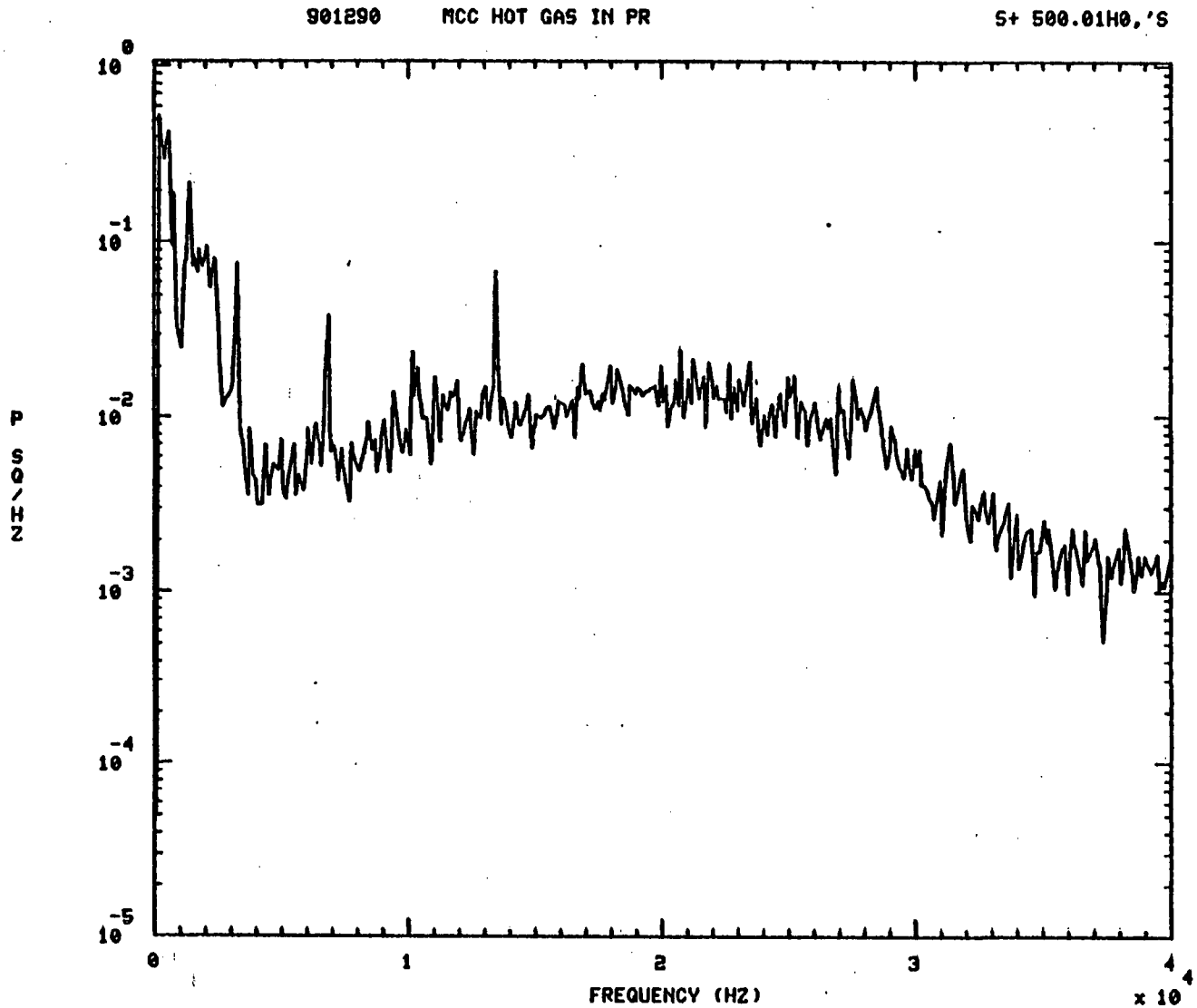
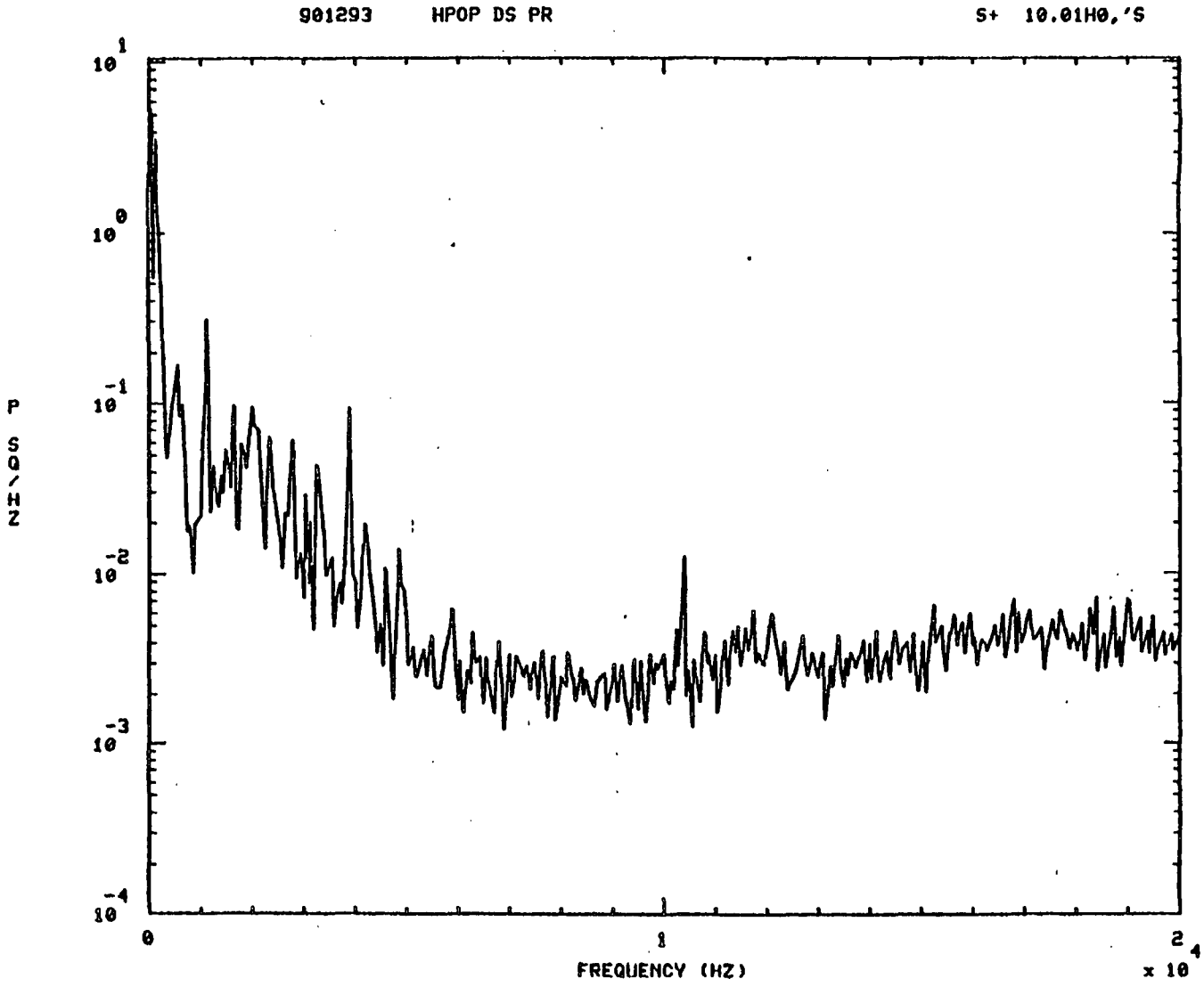
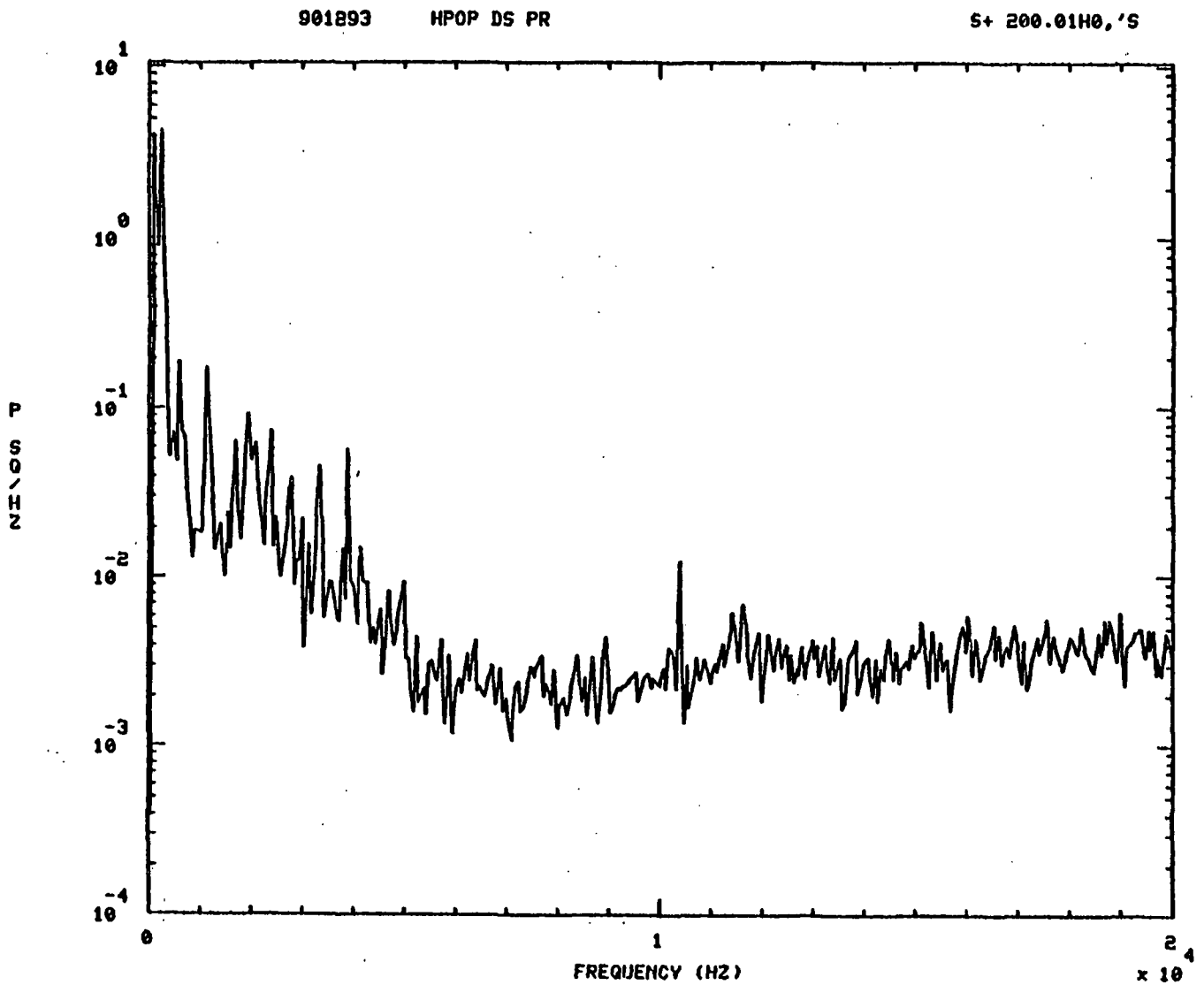
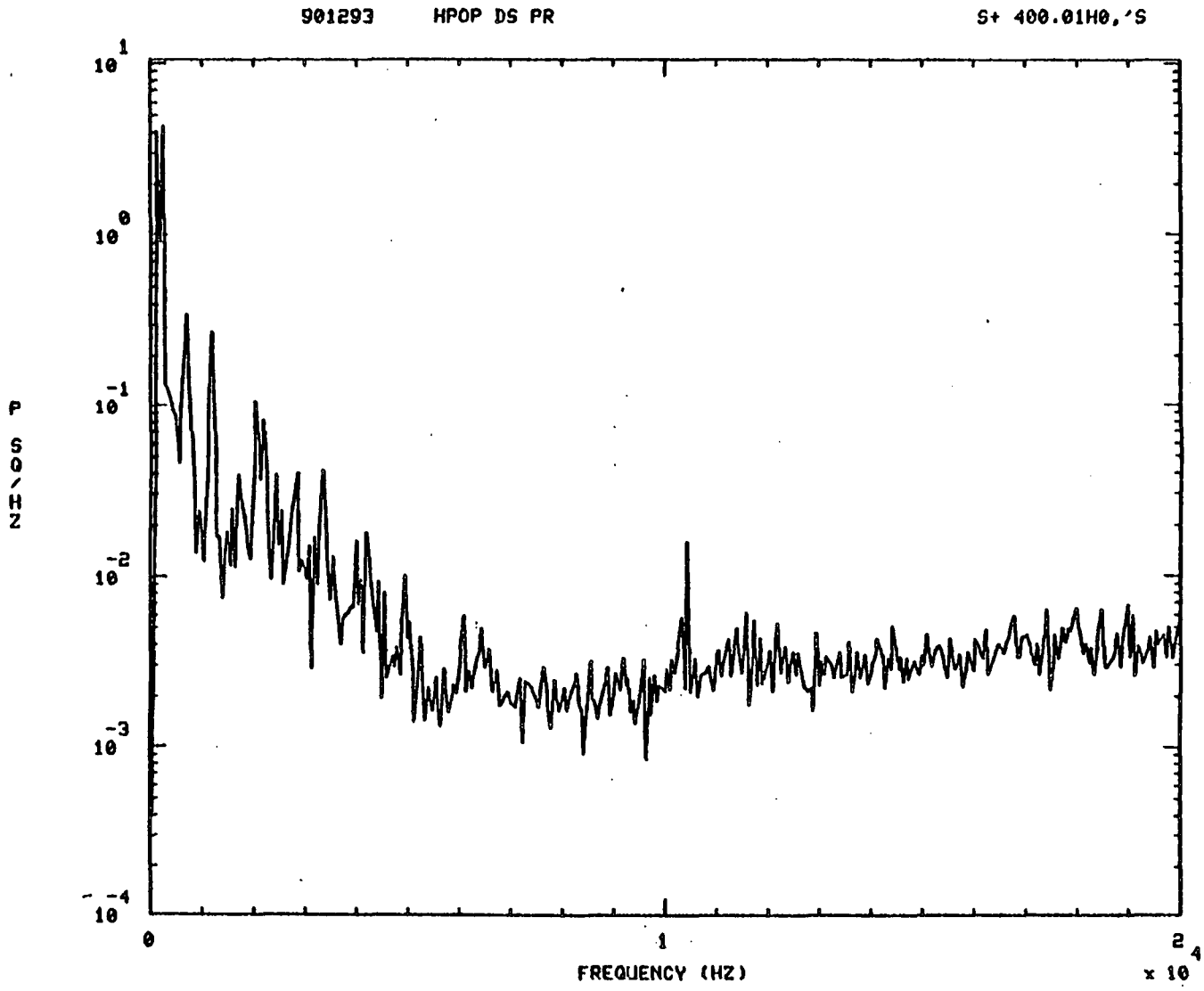
S+ 315.01H0,'S
P SQ\HZ
FREQUENCY (HZ)
x 10^4

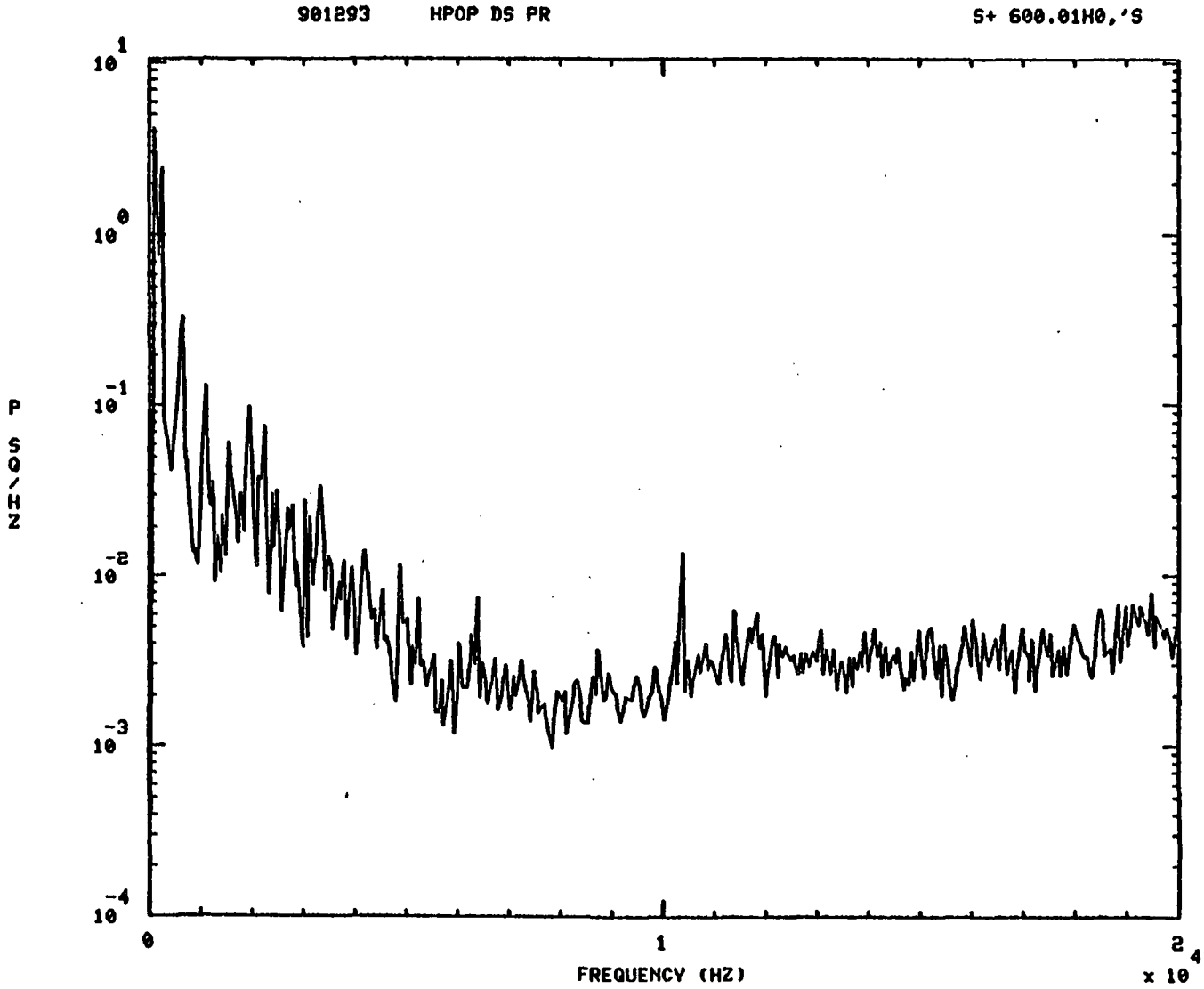

901290 MCC HOT GAS IN PR
S+ 435.01H0,'S
P SQ/HZ
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
3
4
FREQUENCY (HZ)
x 10^4

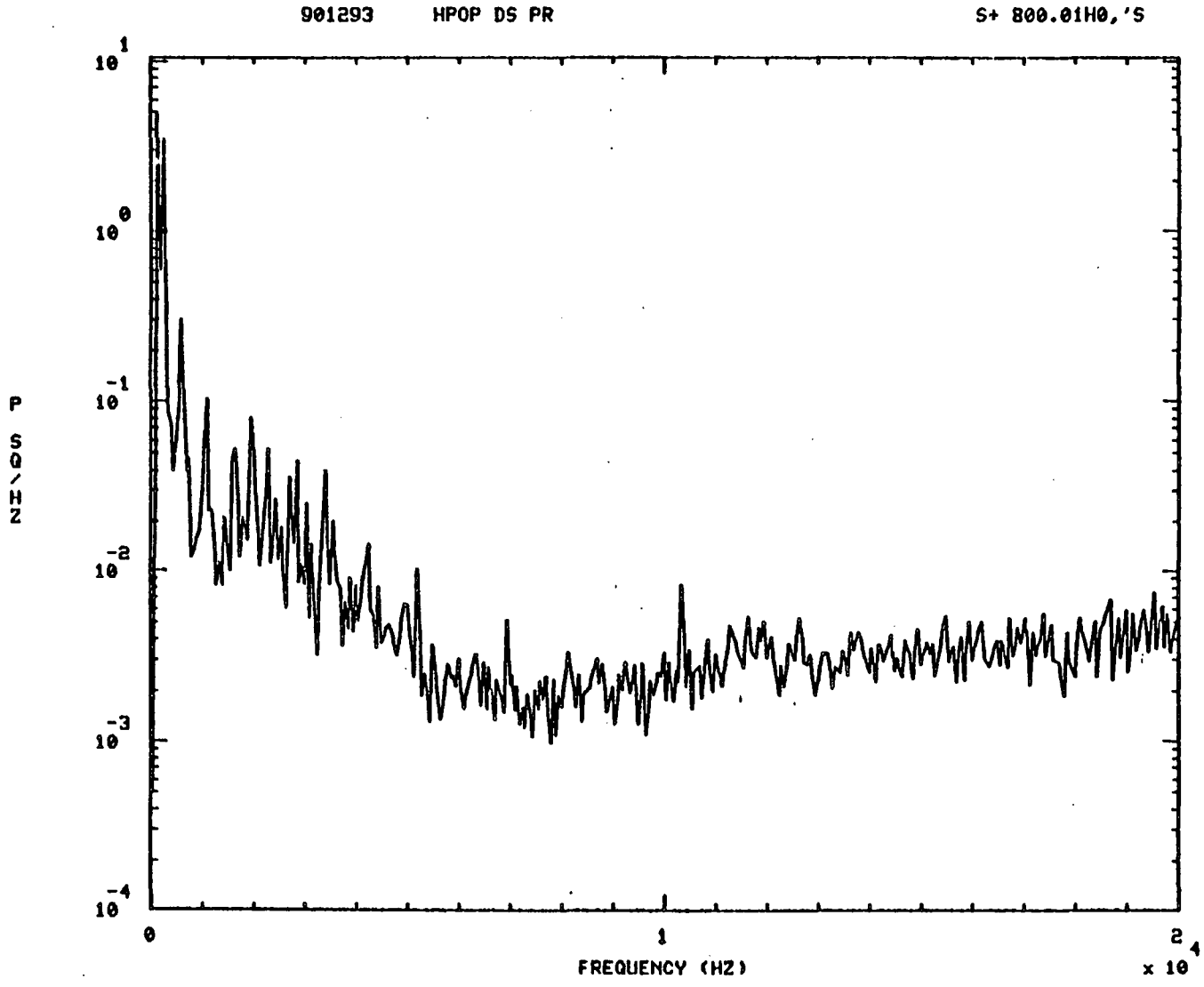

901290 MCC HOT GAS IN PR
S+ 500.01H0,'S
P SQ\HZ
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
3
4
FREQUENCY (HZ)
x 10^4

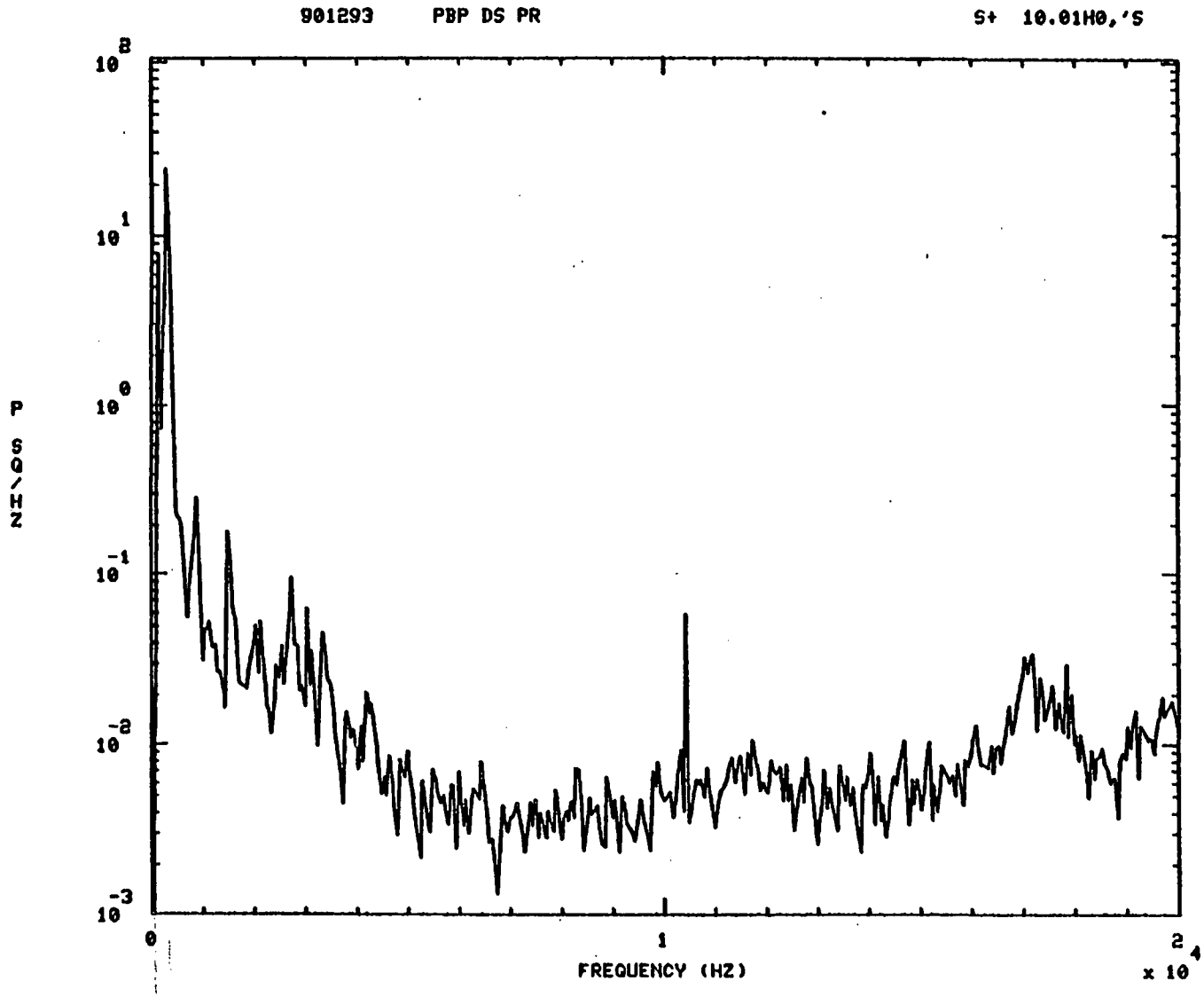

901293 HPOP DS PR
S+ 10.01H0,'S
P SQ\HZ
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
4
x 10
FREQUENCY (HZ)

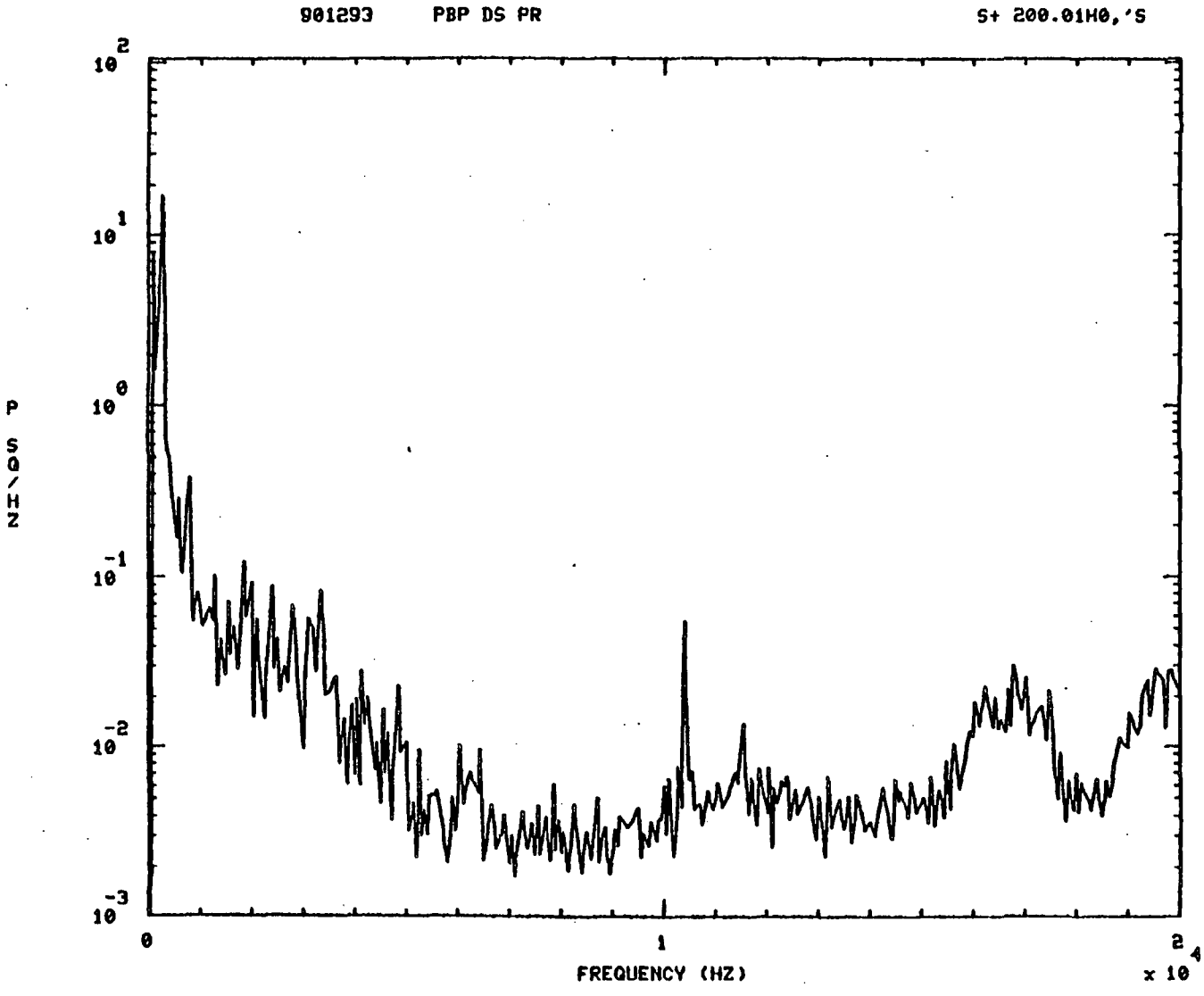

901893 HPOP DS PR
S+ 200.01H0,'S
P S0/HZ
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
FREQUENCY (HZ)
x 10^4


901293 HPOP DS PR
S+ 400.01H0,'S
P S0/HZ
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
FREQUENCY (HZ)
x 10^4


901293 HPOP DS PR
S+ 600.01H0,'S
P S Q \ H Z
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
4
x 10
FREQUENCY (HZ)


901293 HPOP DS PR
S+ 800.01H0,'S
P SQ\HZ
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
FREQUENCY (HZ)
x 10^4


901293 PBP DS PR
S+ 10.01H0,'S
P S Q/HZ
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4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S+ 200.01H0,'S
P SQ\HZ
FREQUENCY (HZ)
x 10^4
10^2
10^1
10^0
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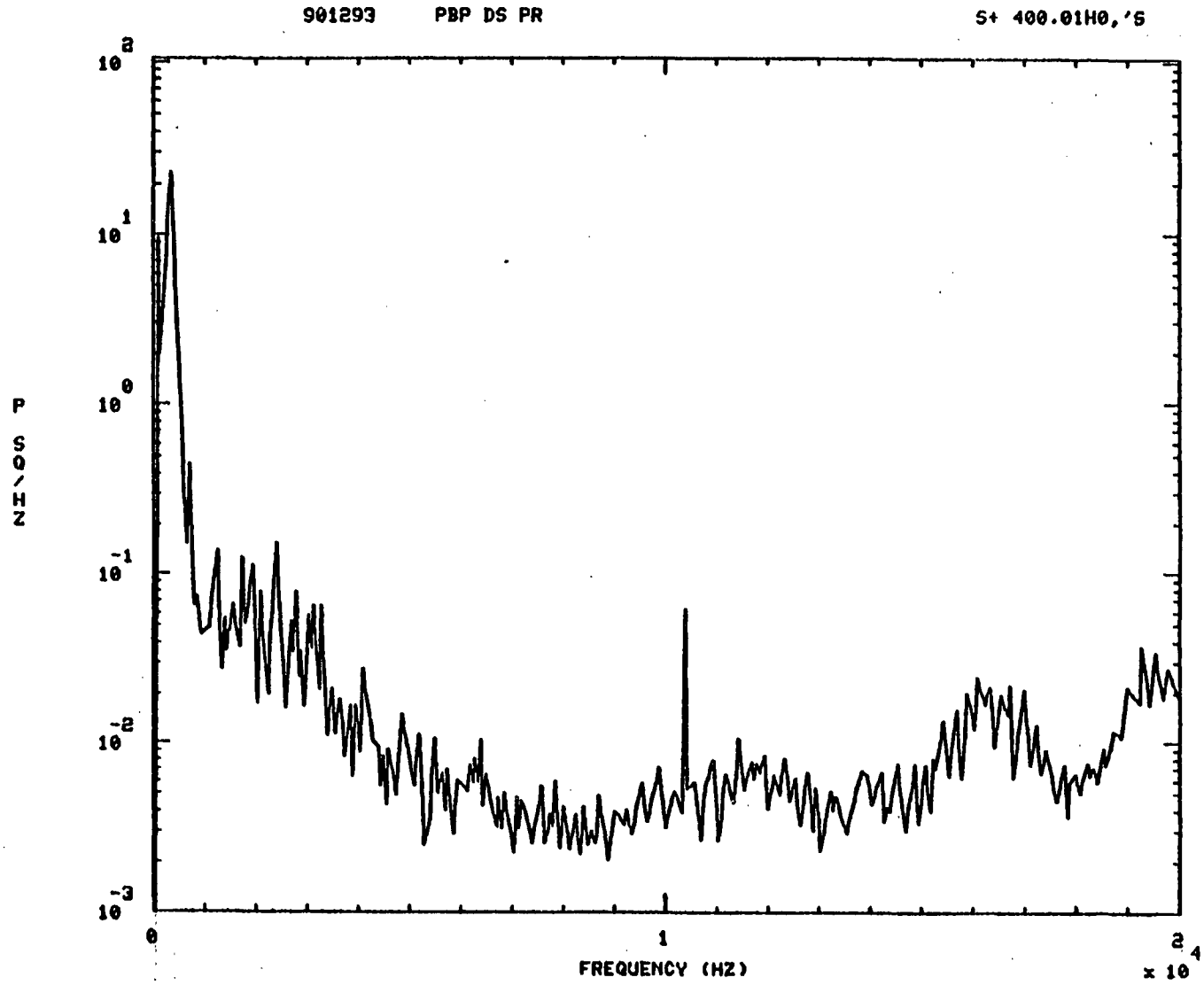
10^-2
10^-3
0
1
2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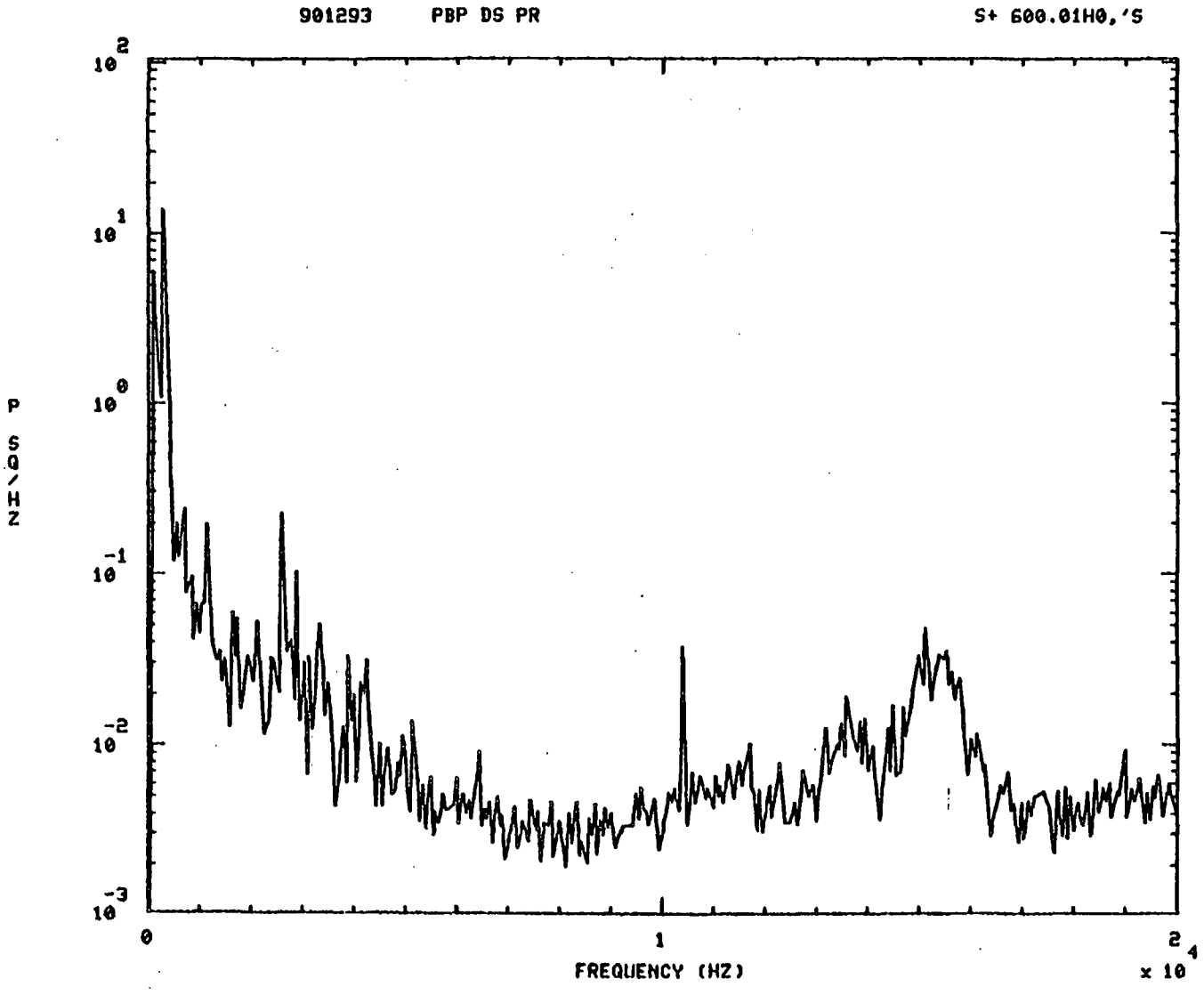
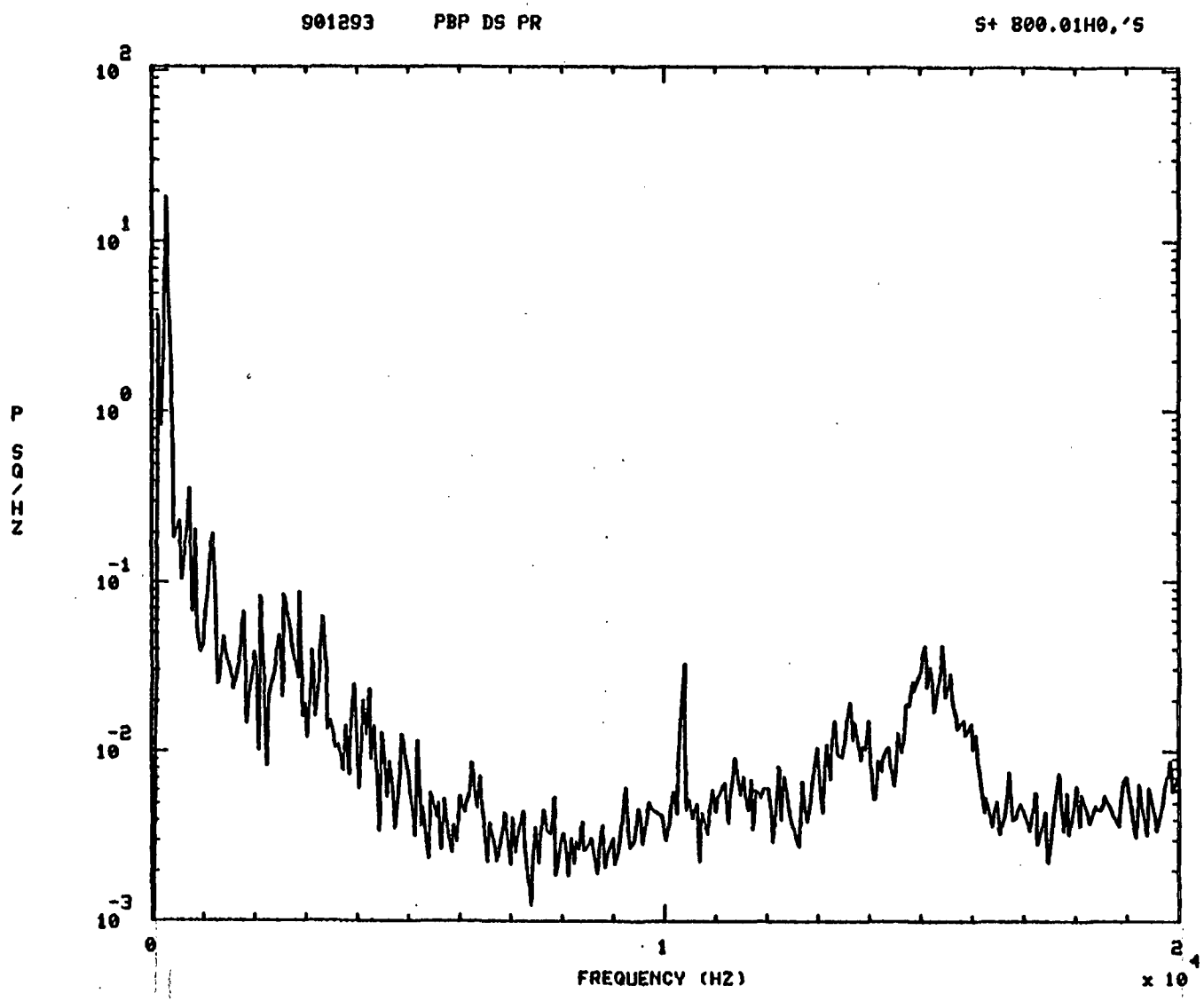
S+ 400.01H0,'S
P S0/HZ
FREQUENCY (HZ)
x 10^4


901293 PBP DS PR
S+ 600.01H0,'S
P SQ/HZ
10^{2}
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-3}
0
1
2
FREQUENCY (HZ)
x 10^{4}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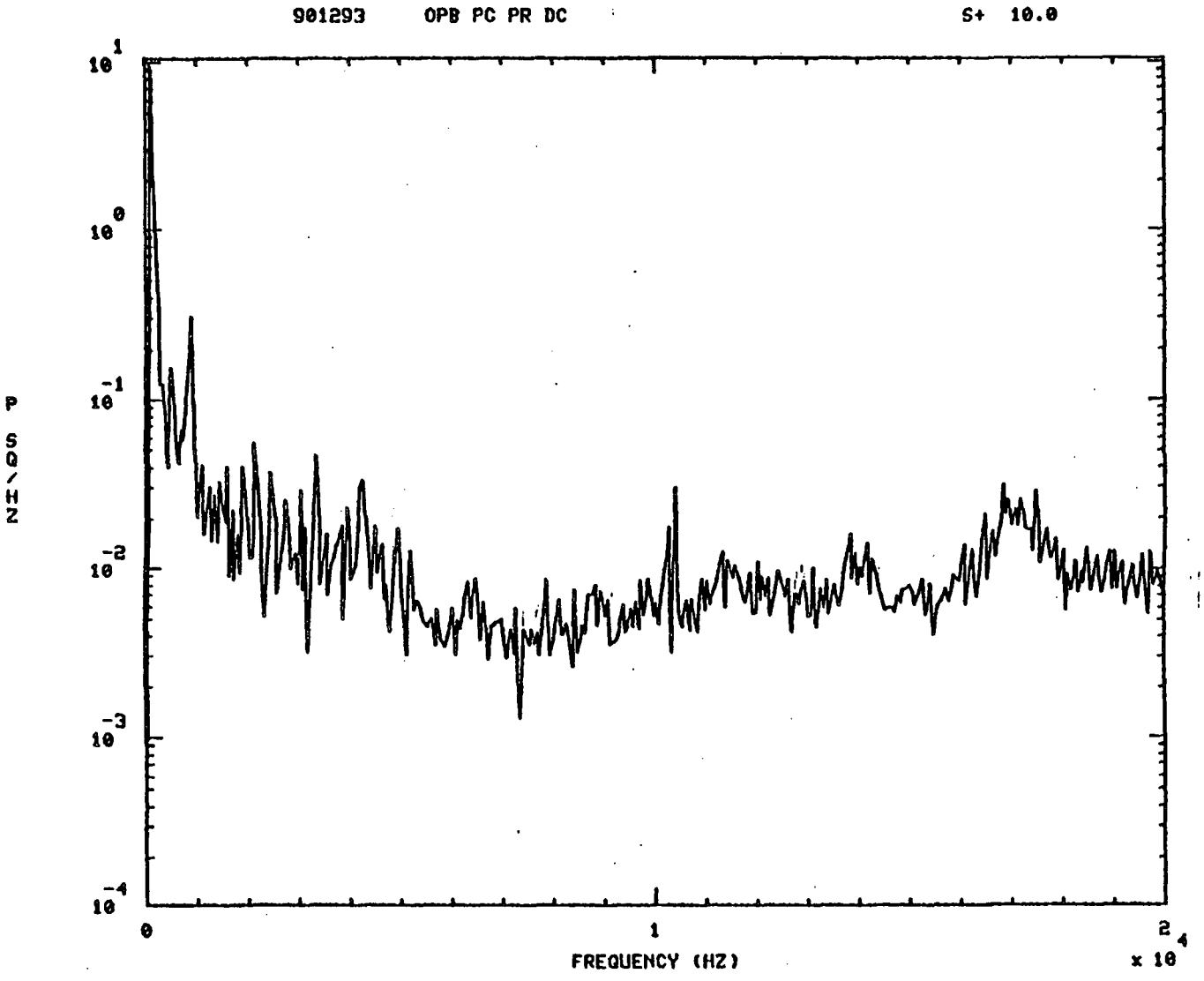
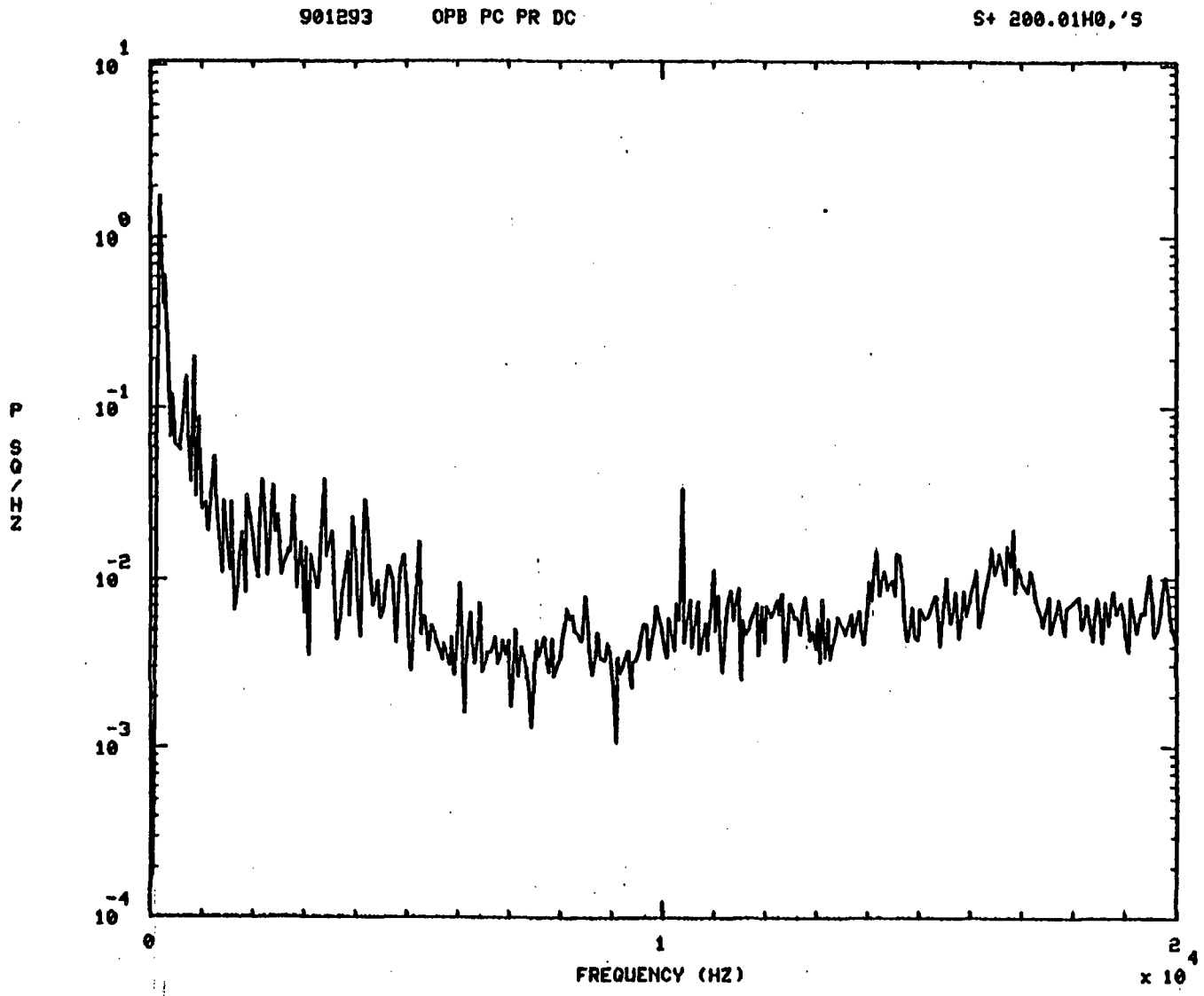
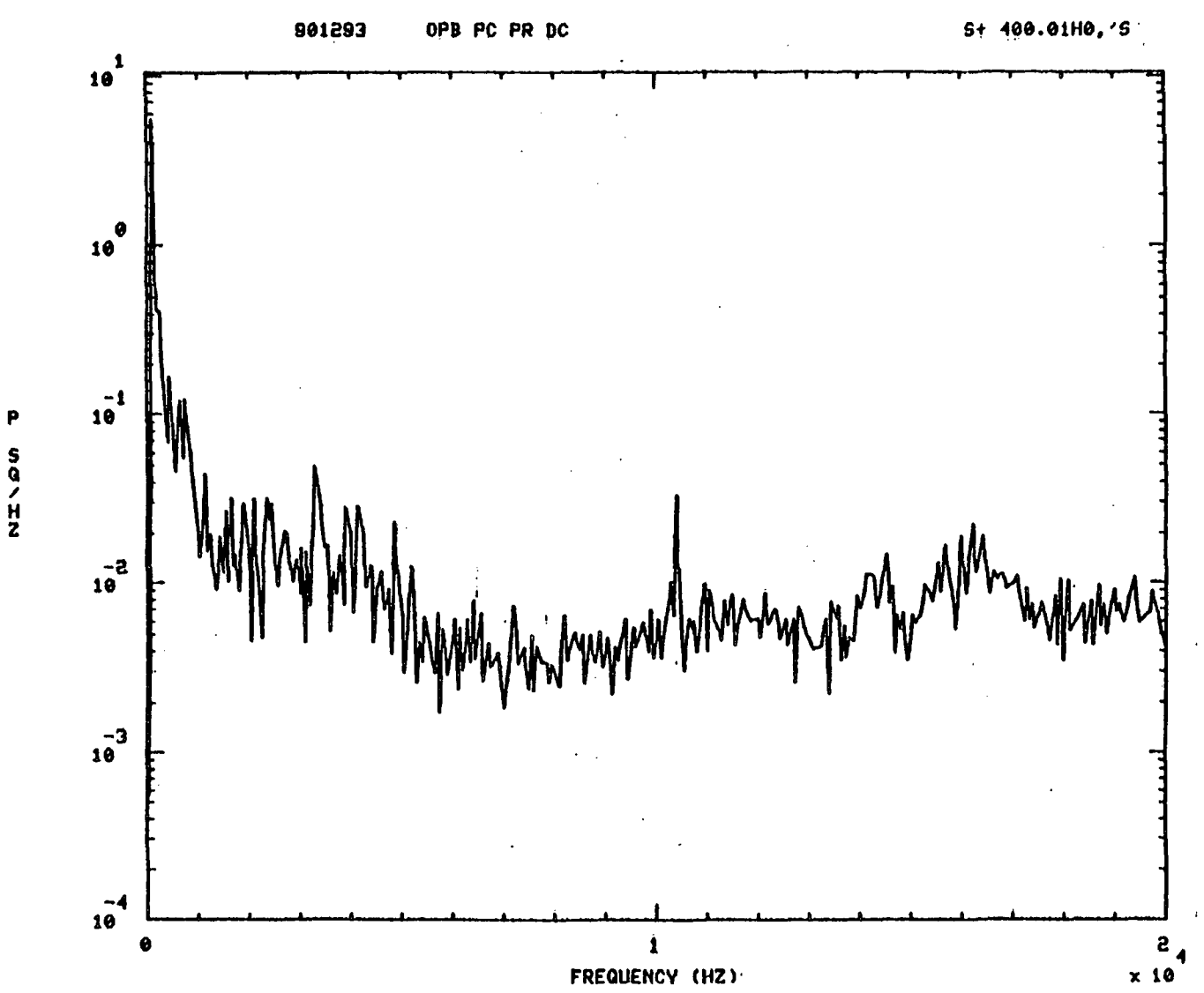
S+ B00.01H0,'S
P SQ\HZ
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4


901293 OPB PC PR DC
S+ 10.0
P SQ\HZ
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
FREQUENCY (HZ)
x 10^4


901293 OPB PC PR DC
S+ 200.01H0,'S
P SQ\HZ
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
FREQUENCY (HZ)
x 10^4


901293 OPB PC PR DC
S+ 400.01H0,'S
P S Q \ H Z
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10^0
10^-1
10^-2
10^-3
10^-4
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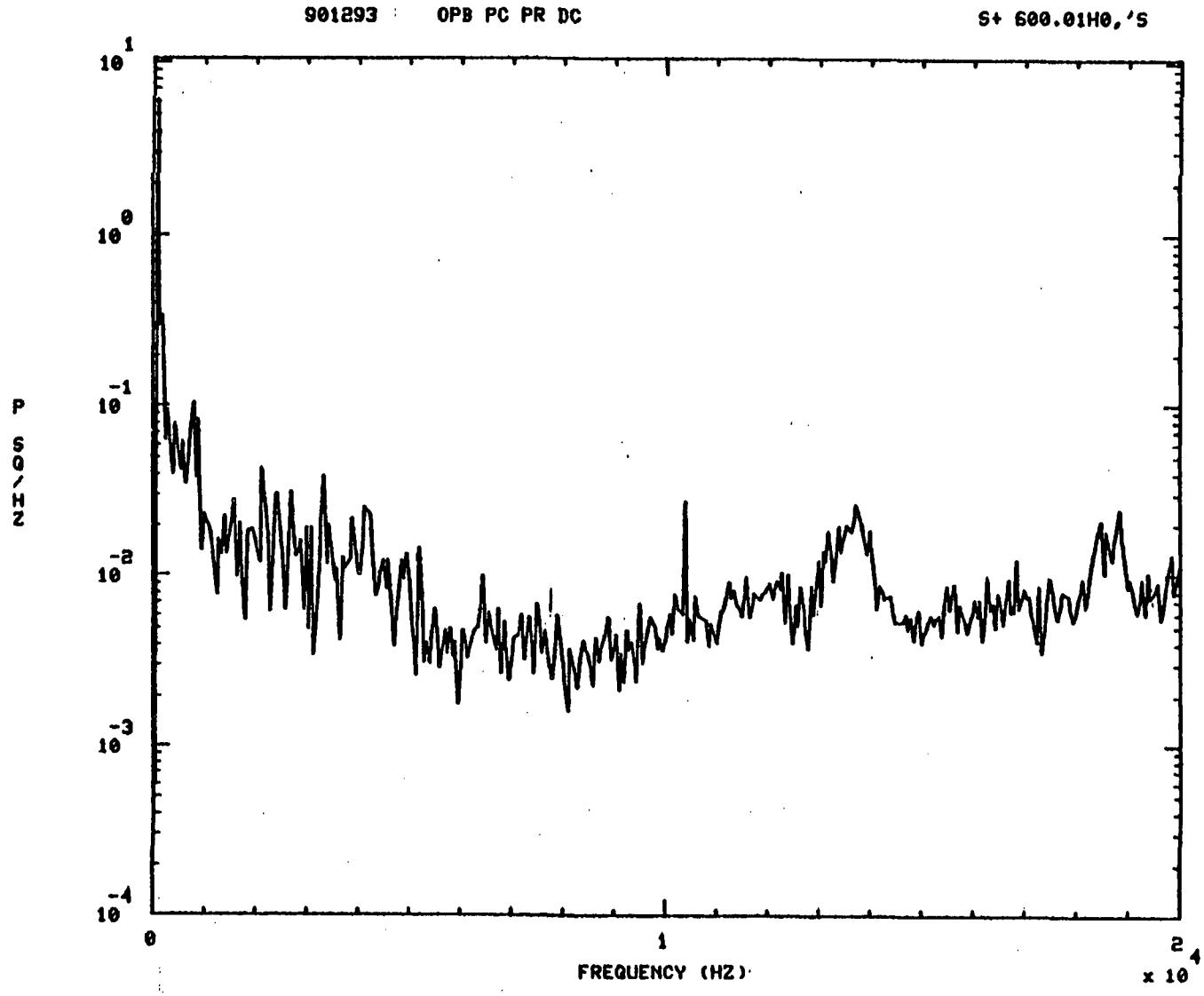
1
2
FREQUENCY (HZ)
x 10^4


901293 OPB PC PR DC
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P SQ\HZ
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10^-1
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10^-3
10^-4
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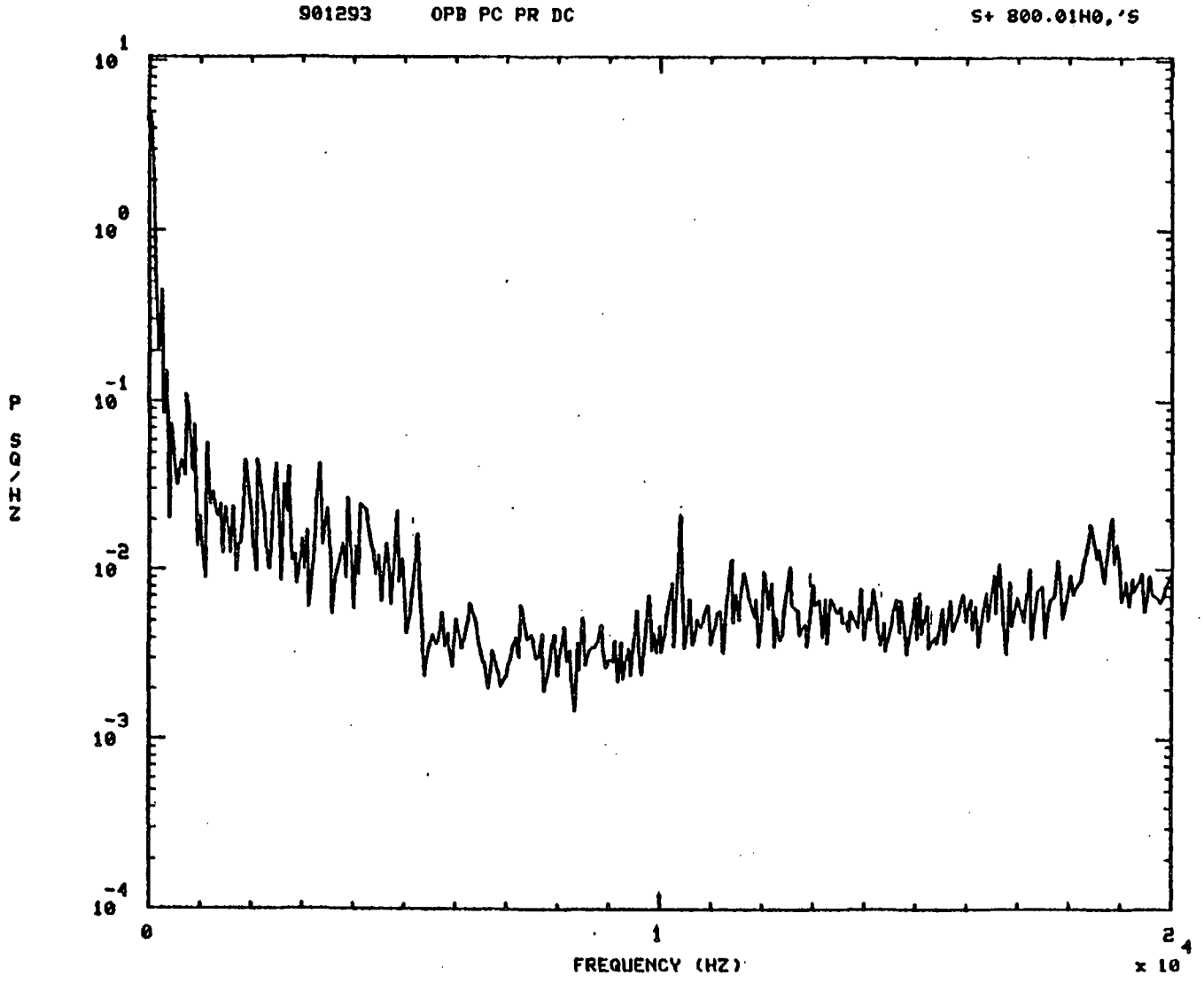
1
2
FREQUENCY (HZ)
x 10^4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P SQ\HZ
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10^0
10^-1
10^-2
10^-3
10^-4
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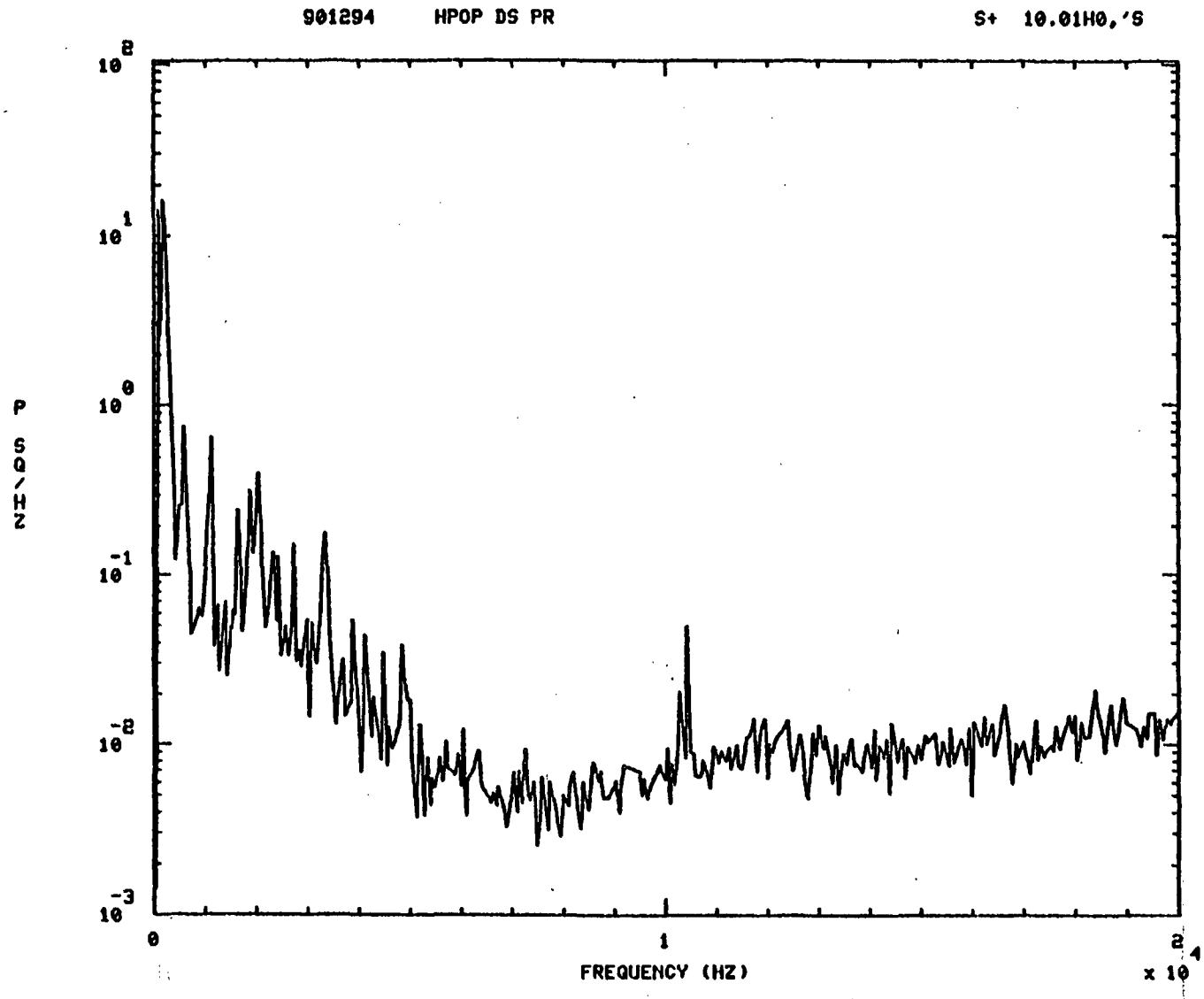
1
2
FREQUENCY (HZ)
x 10^4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P S Q \ H Z
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10^1
10^0
10^-1
10^-2
10^-3
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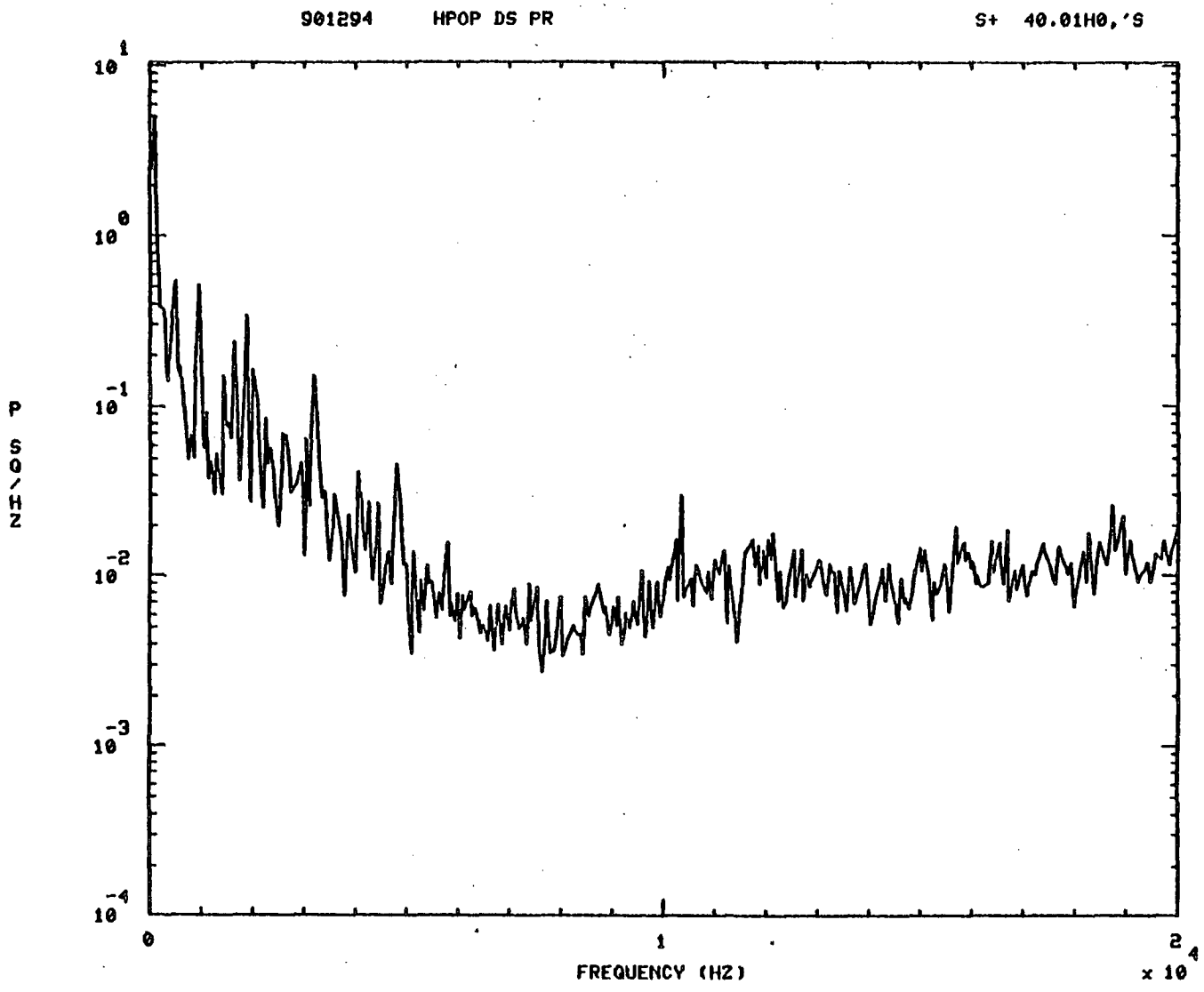
1
2
FREQUENCY (HZ)
x 10^4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P S0\HZ
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10^-1
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10^-3
10^-4
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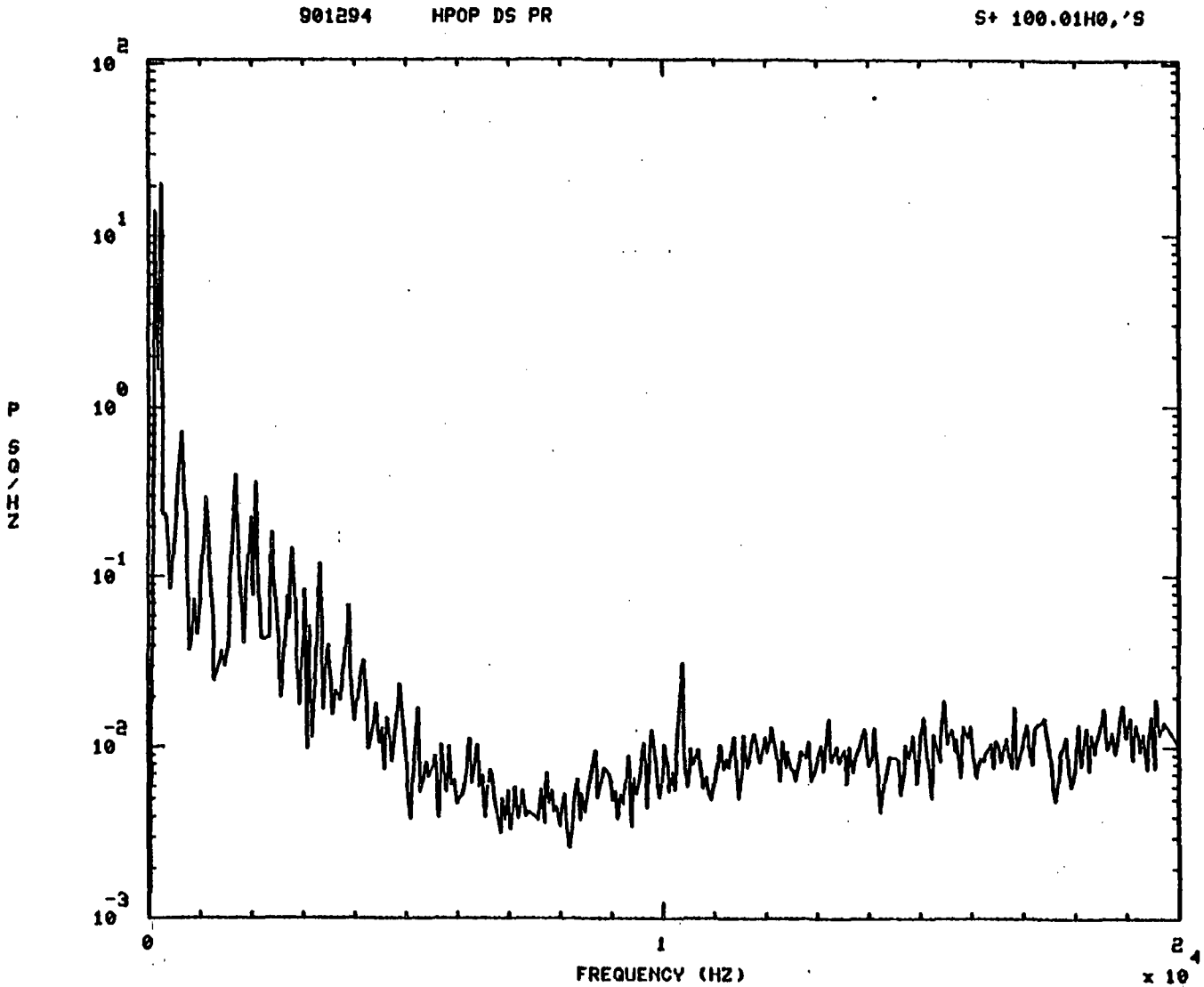
1
2
FREQUENCY (HZ)
x 10^4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S+ 100.01H0,'S
P S Q / H Z
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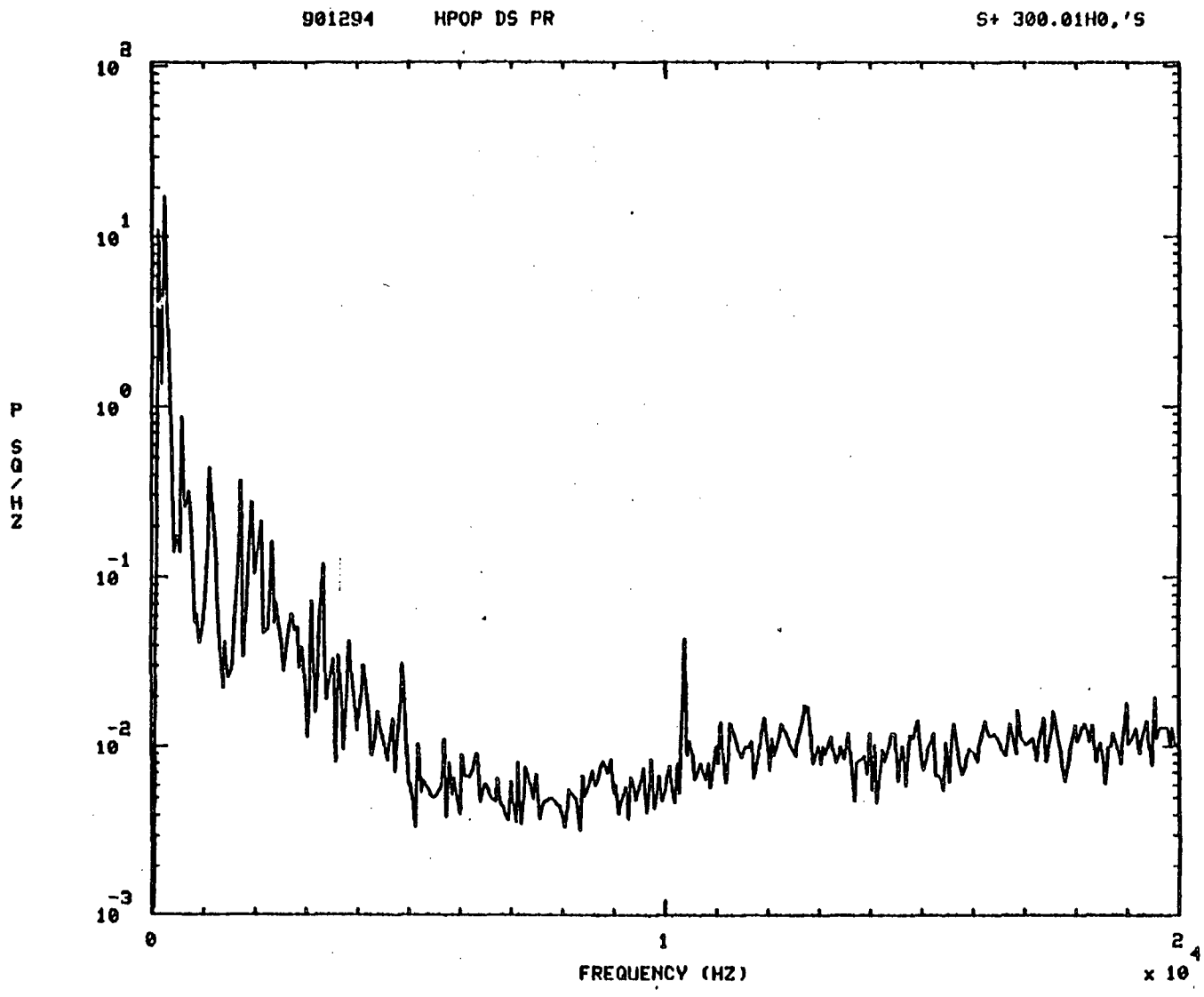
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4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P S Q \ H Z
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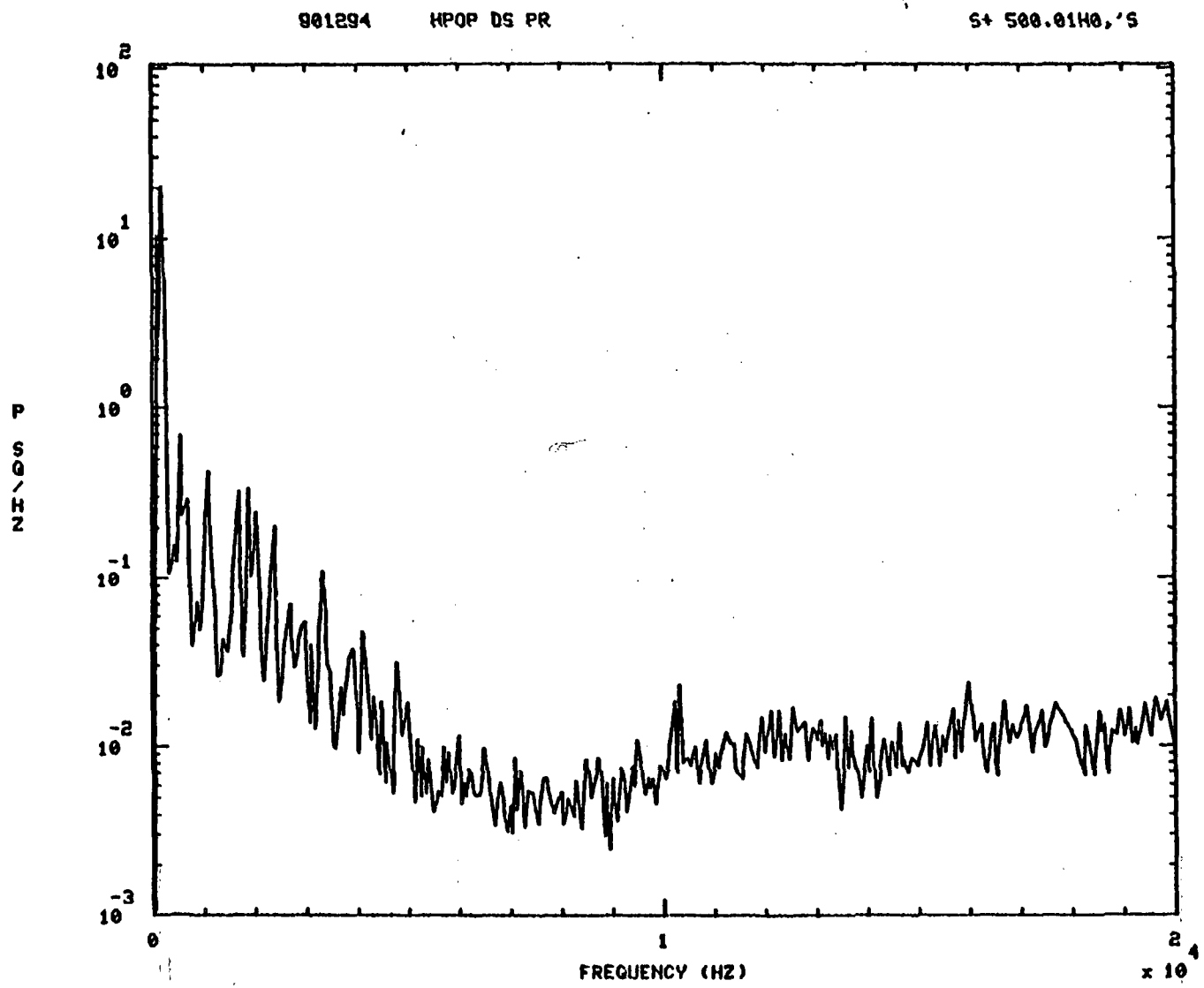
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4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P SQ/HZ
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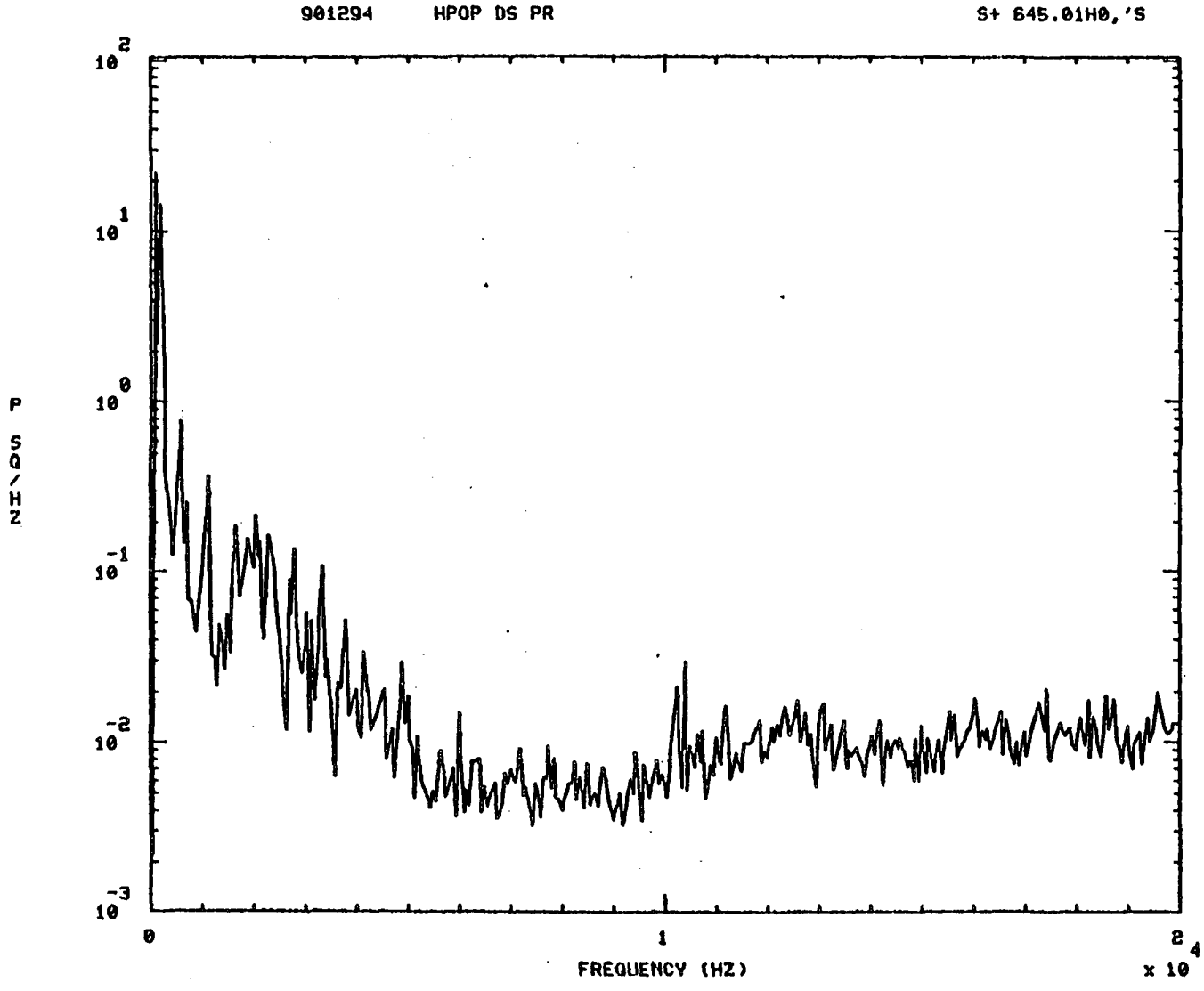
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4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P S Q / H Z
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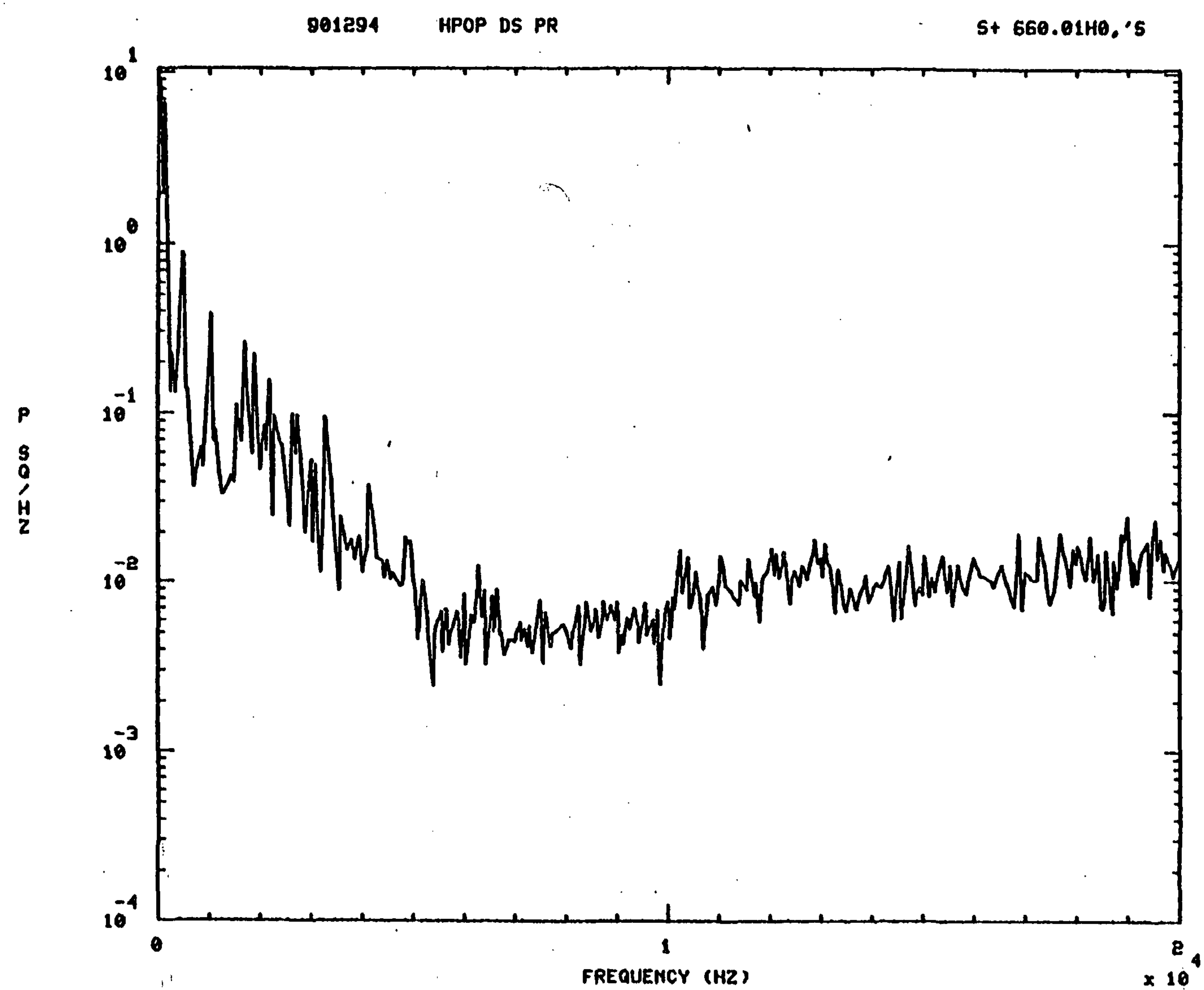
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4



901294 HPOP DS PR
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P SQ/HZ
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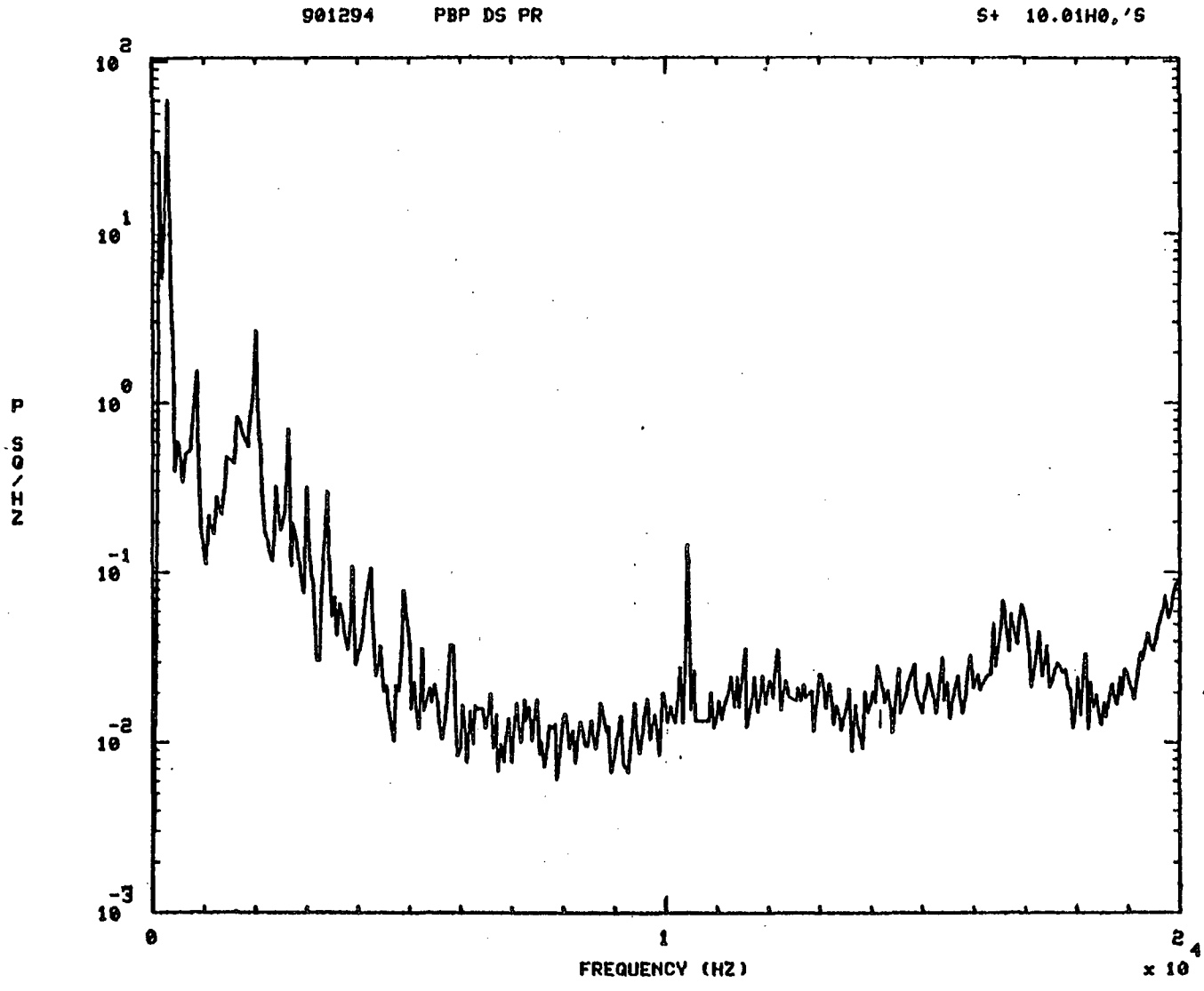
10^{0}
10^{-1}
10^{-2}
10^{-3}
10^{-4}
0
1
2
FREQUENCY (HZ)
x 10^{4}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S+ 10.01H0,'S
P S0\HZ
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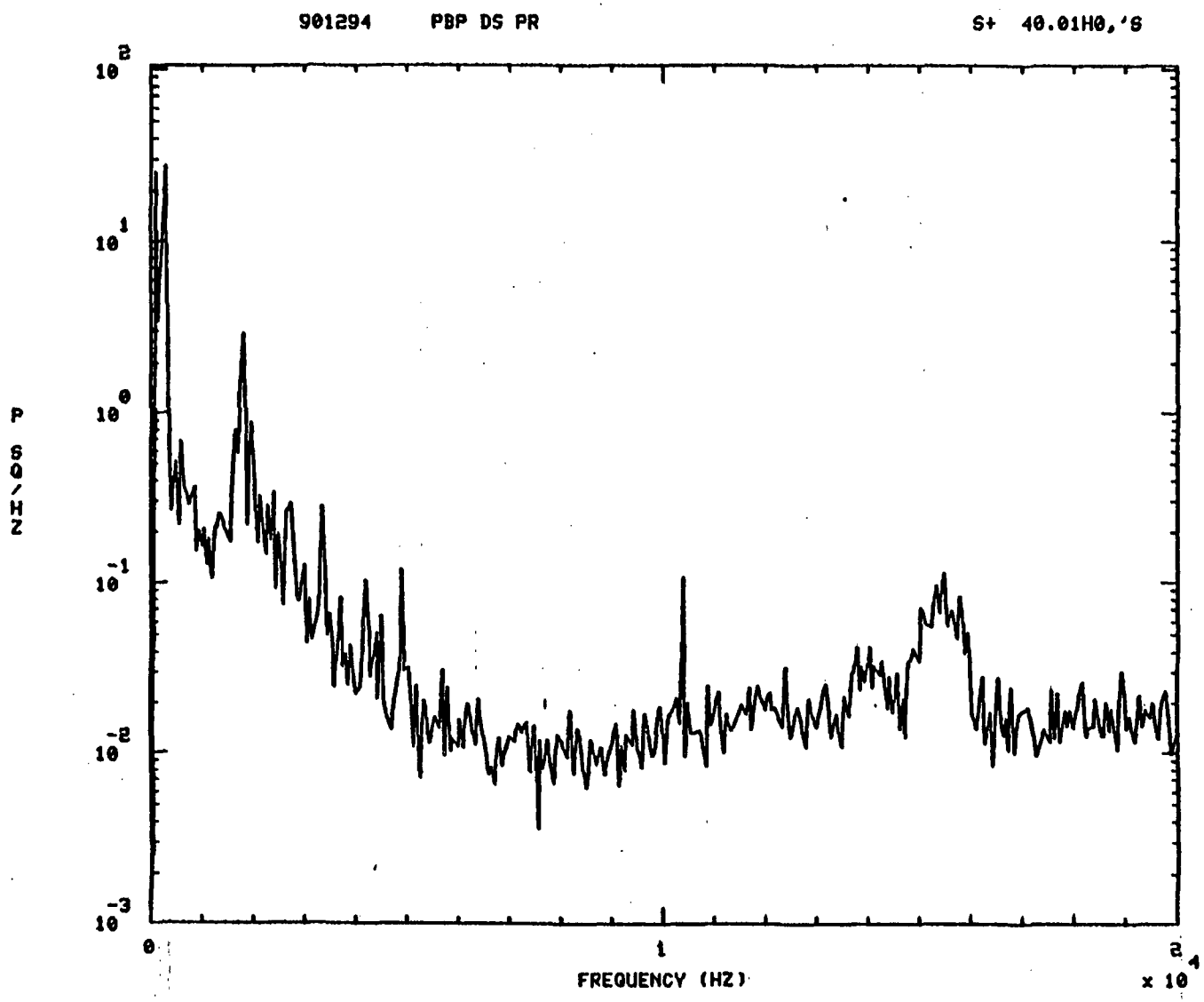
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4


901294 PBP DS PR
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P SQ\HZ
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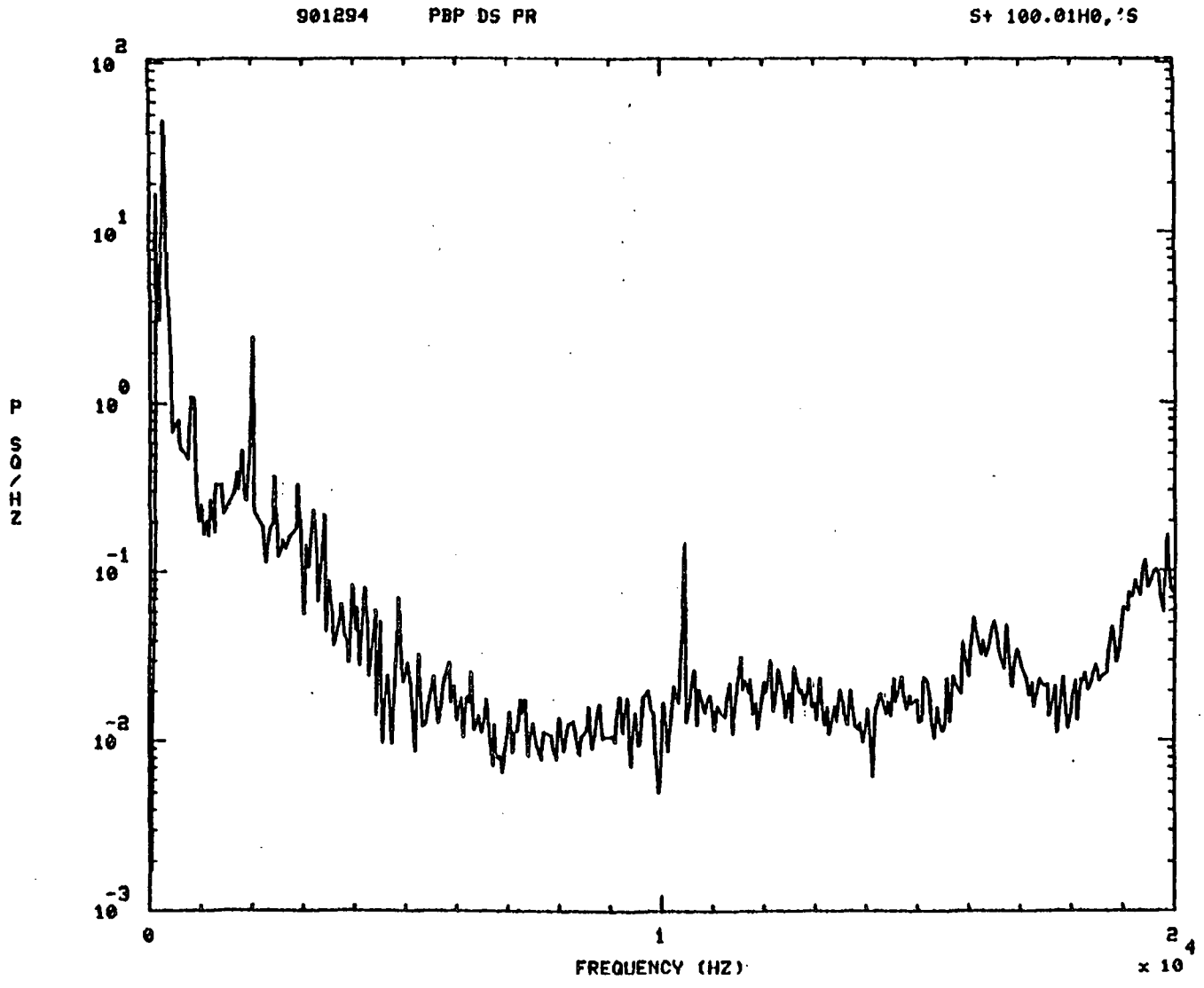
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4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P S0/HZ
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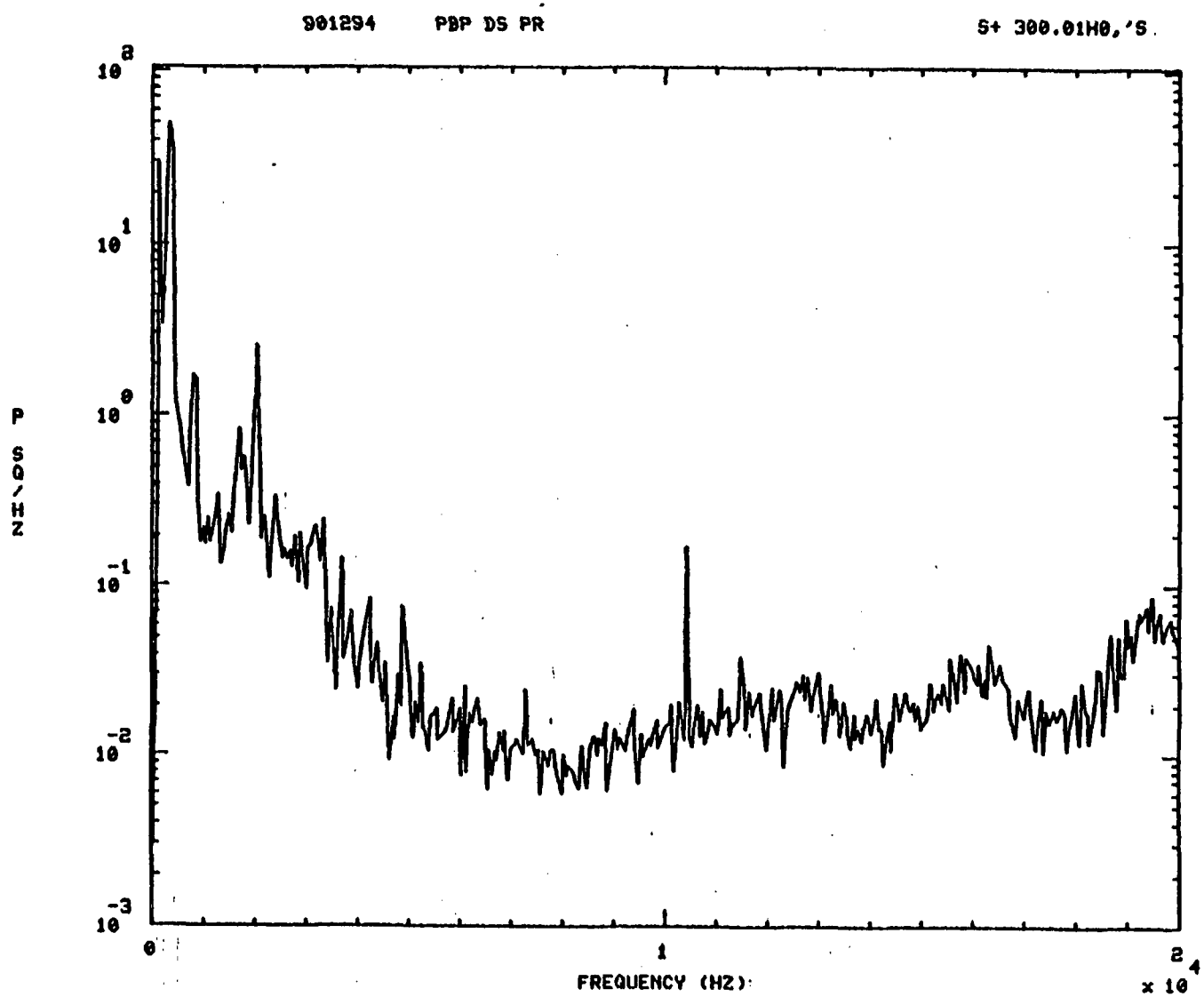
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4


901294 PBP DS PR
S+ 300.01H0,'S
P
SQ\HZ
10^2
10^1
10^0
10^-1
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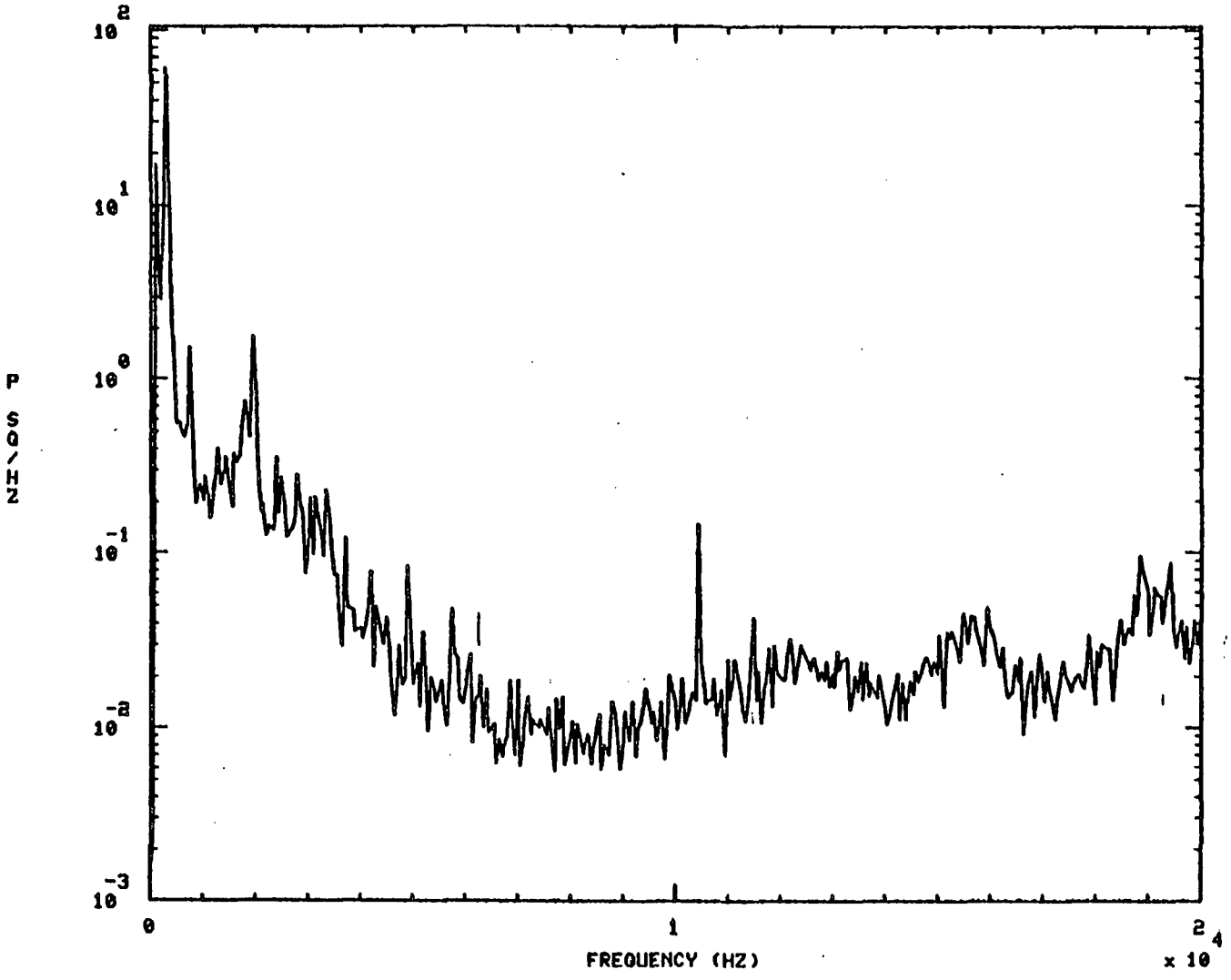
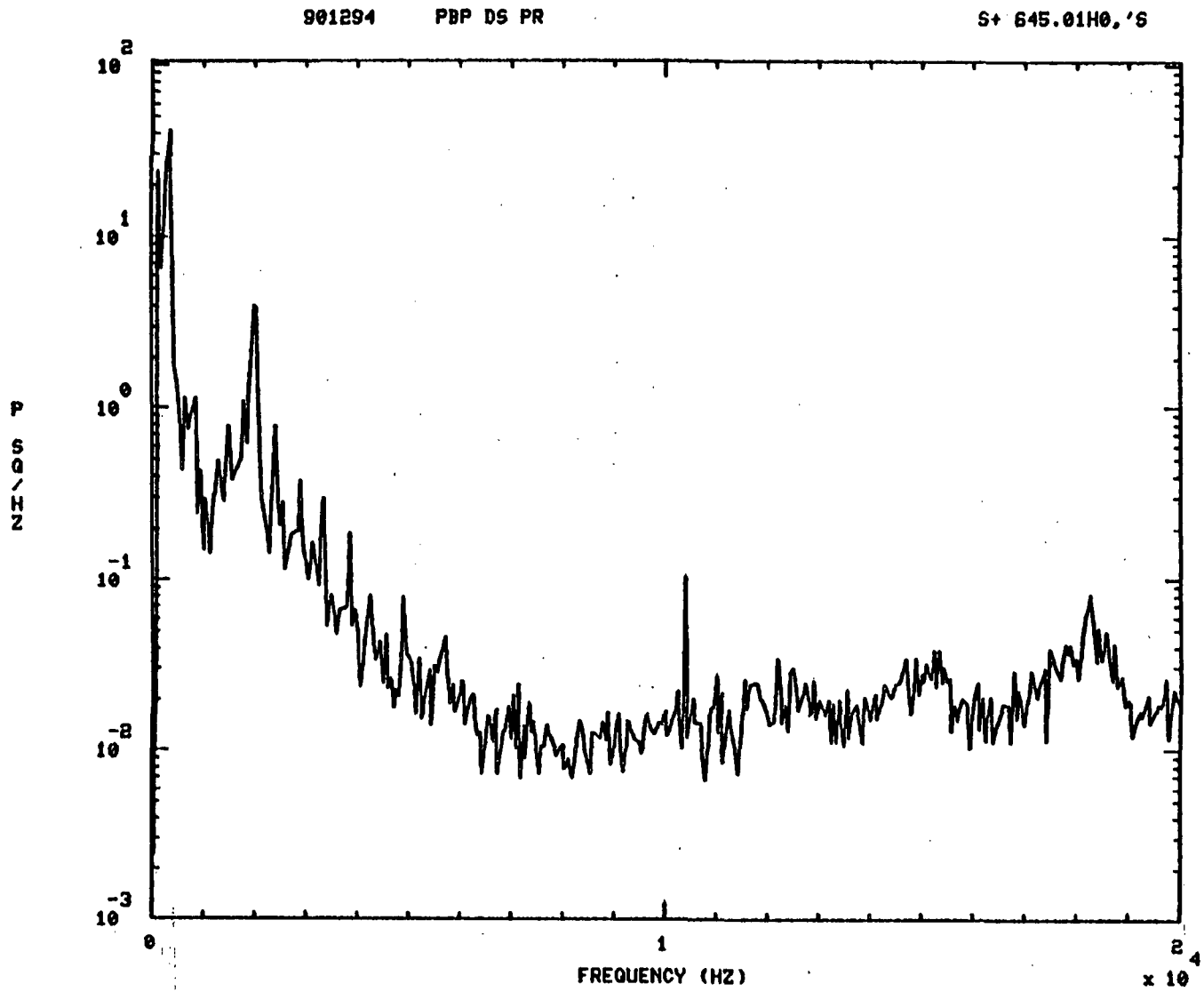
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4

901294 PBP DS PR S+ 500.01H0,'S

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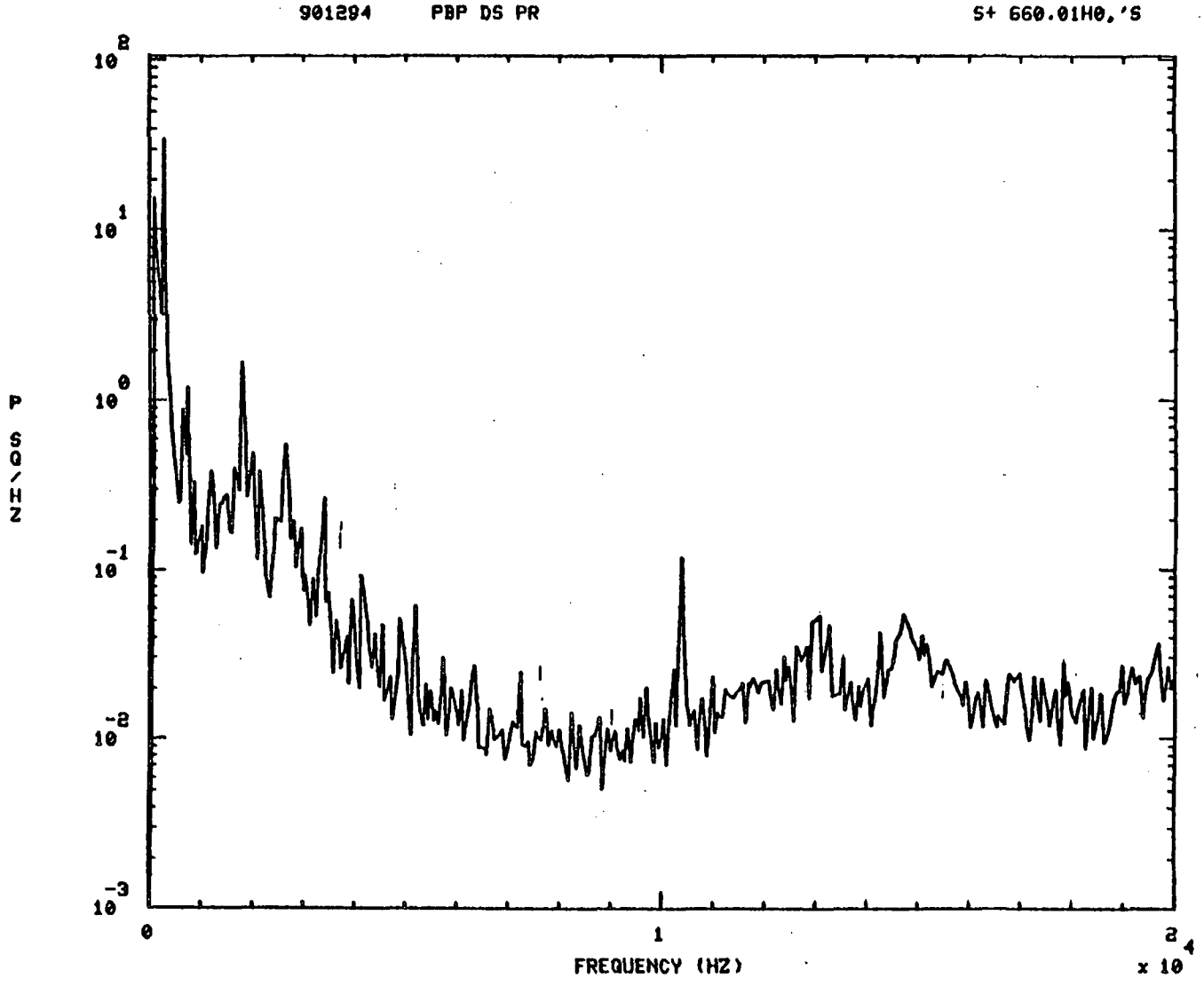
S+ 645.01H0,'S
P SQ/HZ
10^{2}
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-3}
0
1
2
FREQUENCY (HZ)
x 10^{4}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FREQUENCY (HZ)
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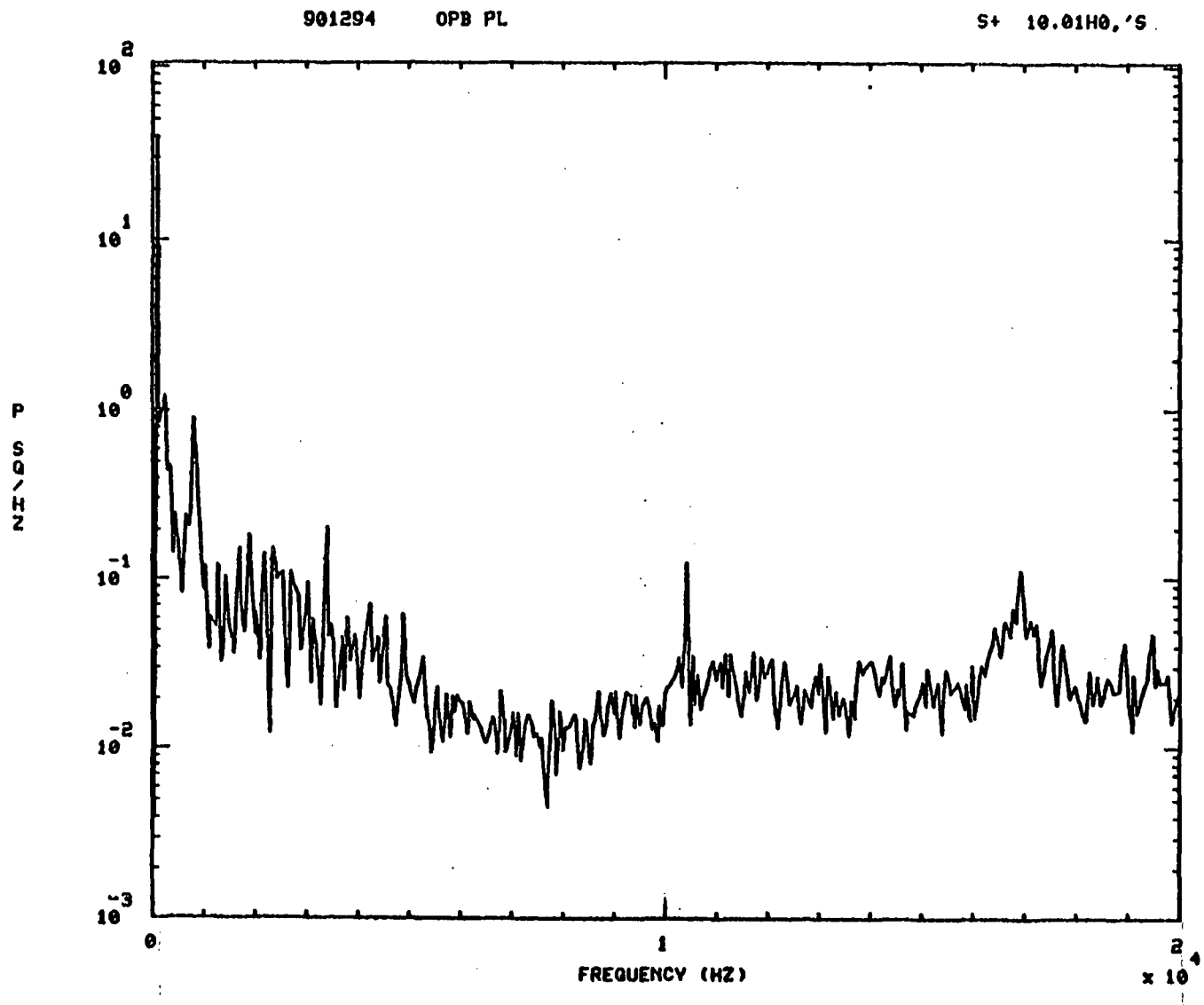
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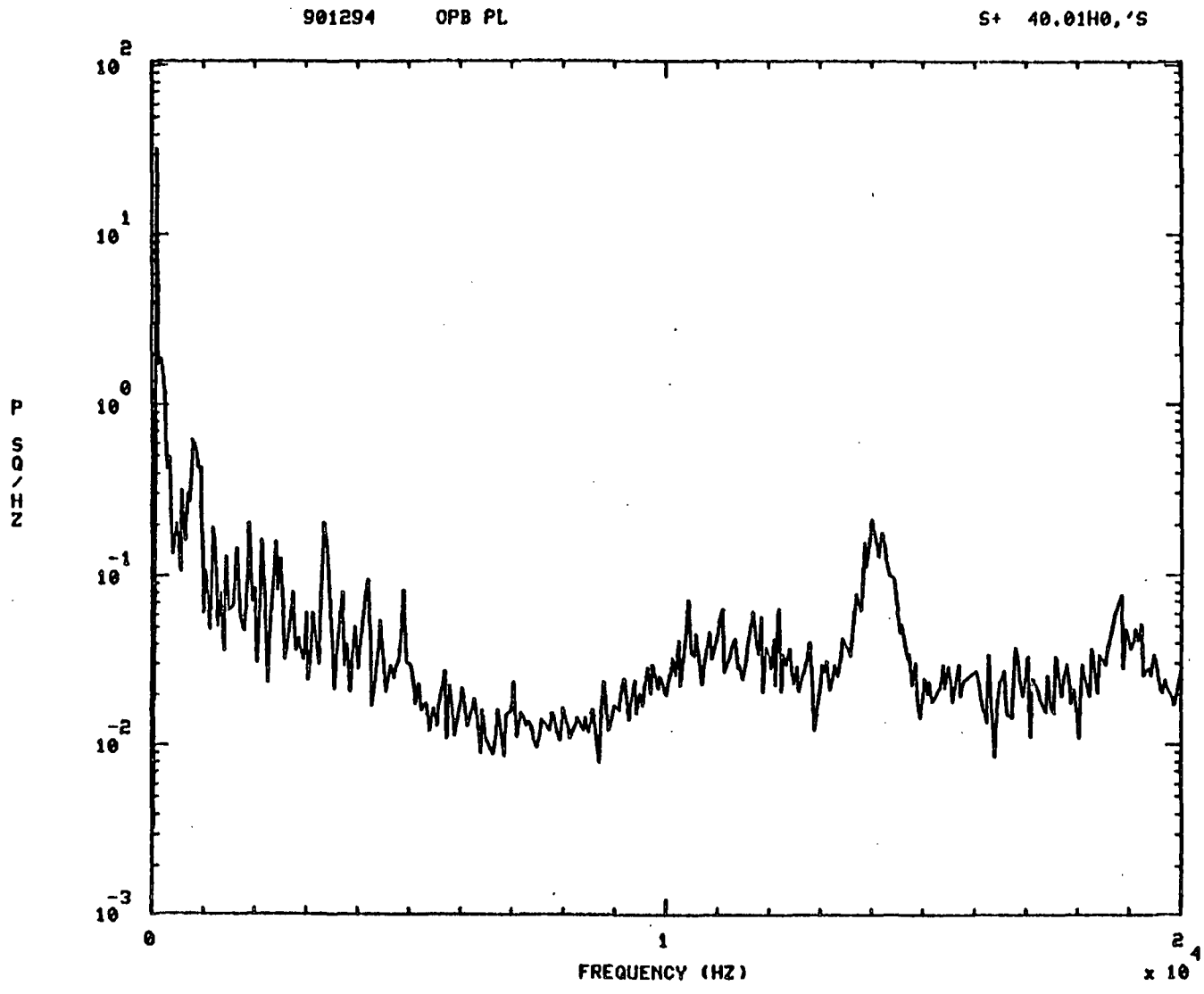
S+ 10.01H0,'S
P S Q \ H Z
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4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P S Q / H Z
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10^0
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10^-2
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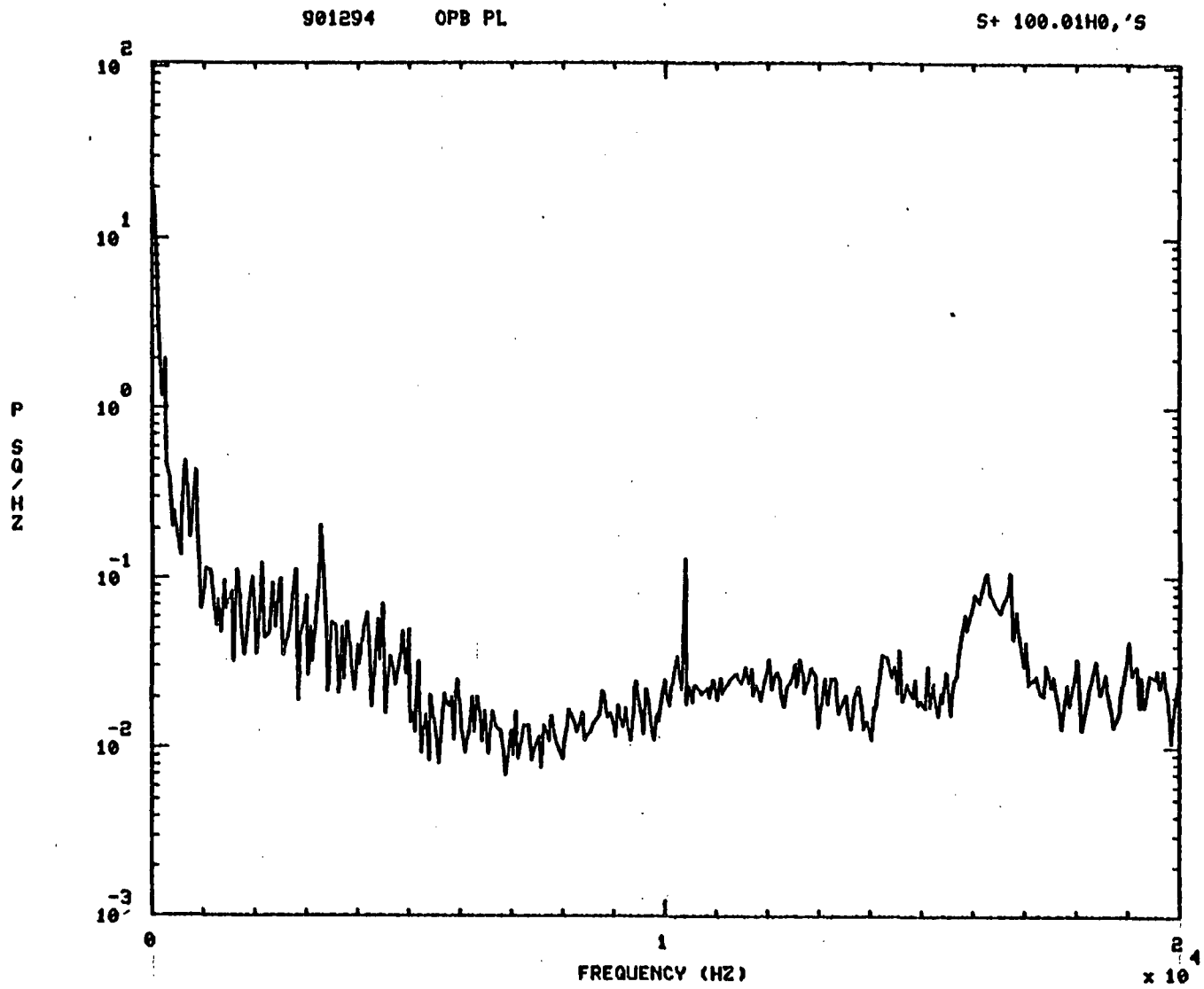
2
FREQUENCY (HZ)
x 10^4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S+ 100.01H0,'S
P S Q / H Z
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10^0
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10^-2
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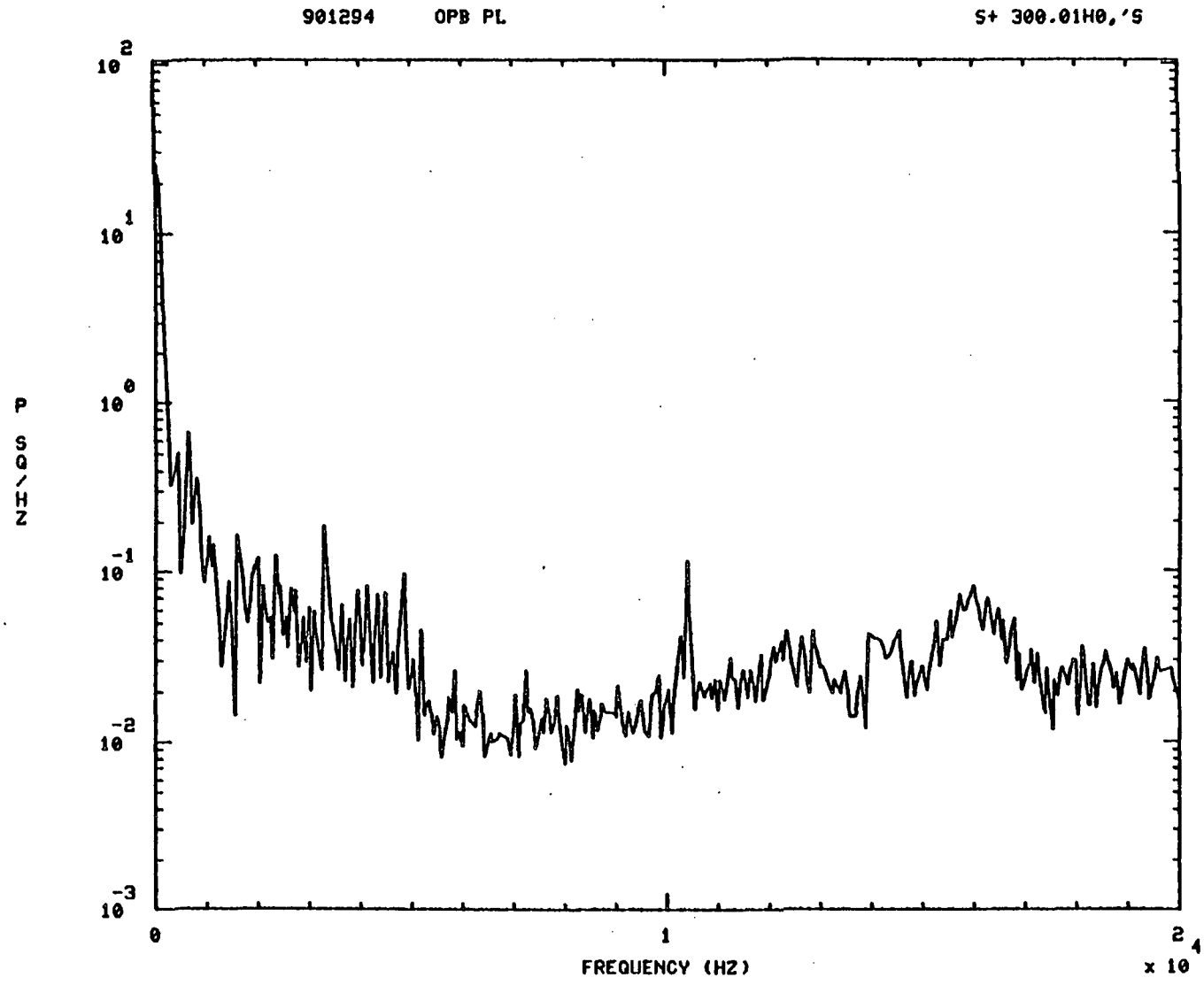
2
FREQUENCY (HZ)
x 10^4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P S Q \ H Z
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10^0
10^-1
10^-2
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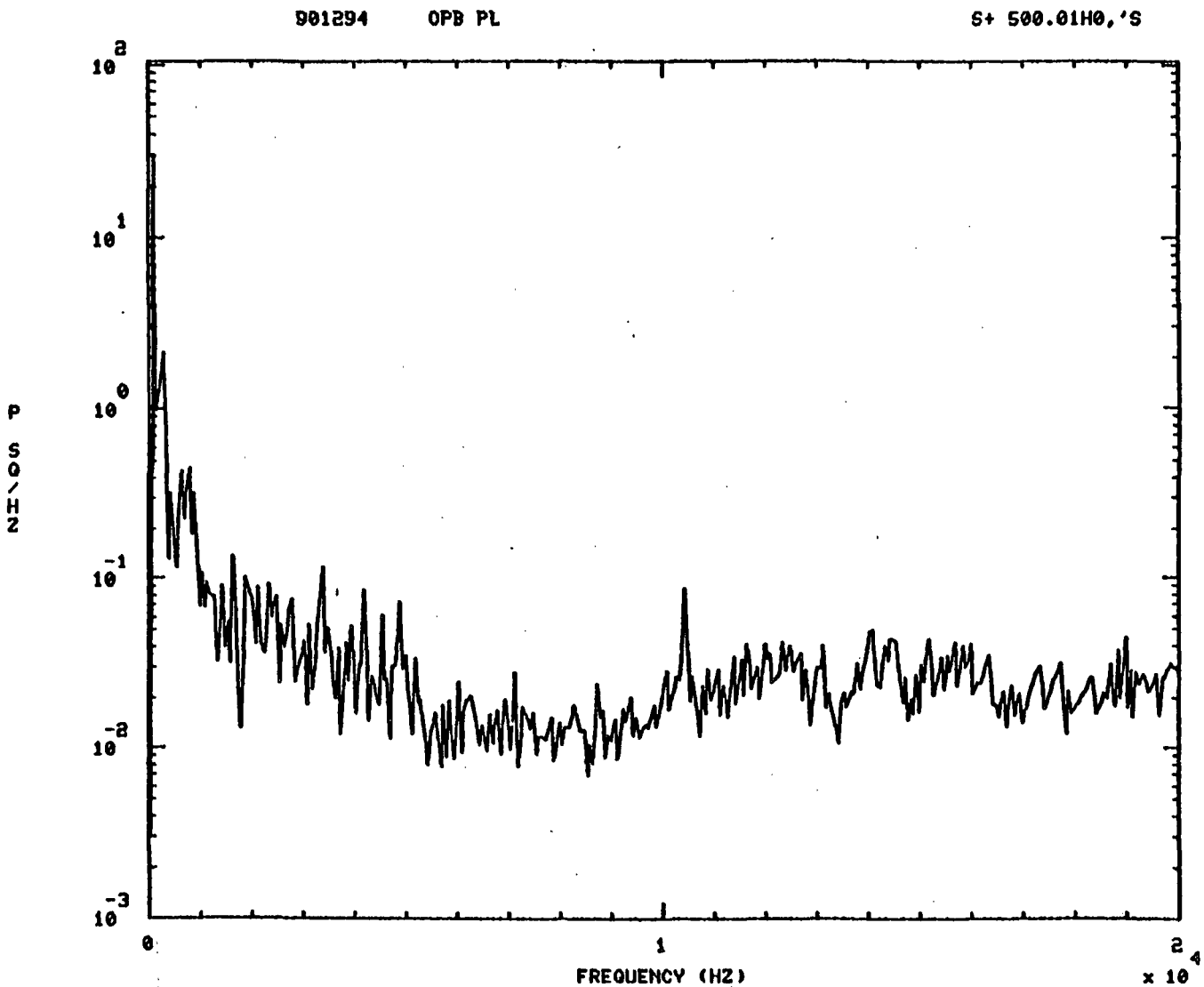
2
FREQUENCY (HZ)
x 10^4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10^-2
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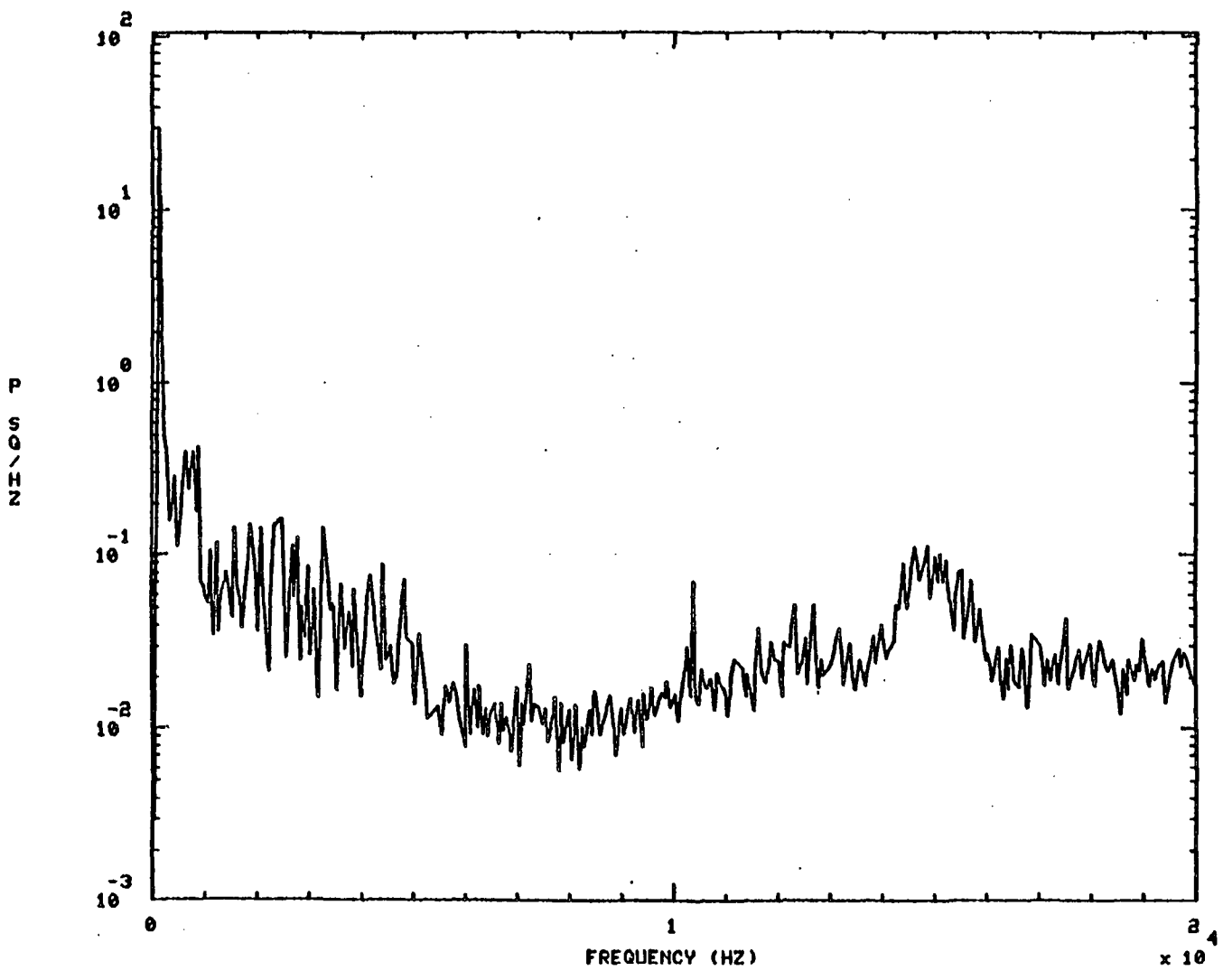
FREQUENCY (HZ)
x 10^4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P S Q/H Z
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10^0
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10^-2
10^-3
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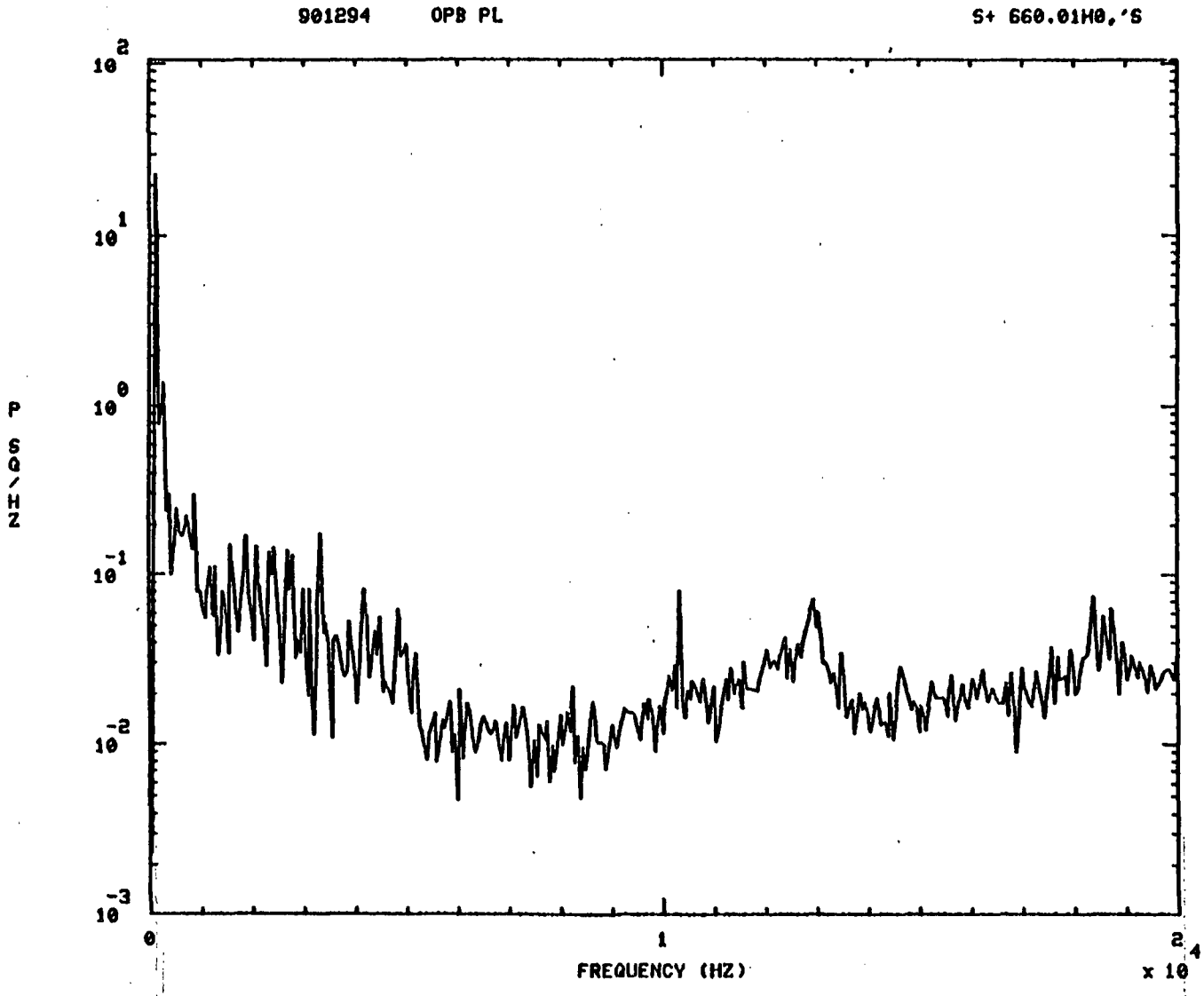
FREQUENCY (HZ)
x 10^4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10^0
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10^-2
10^-3
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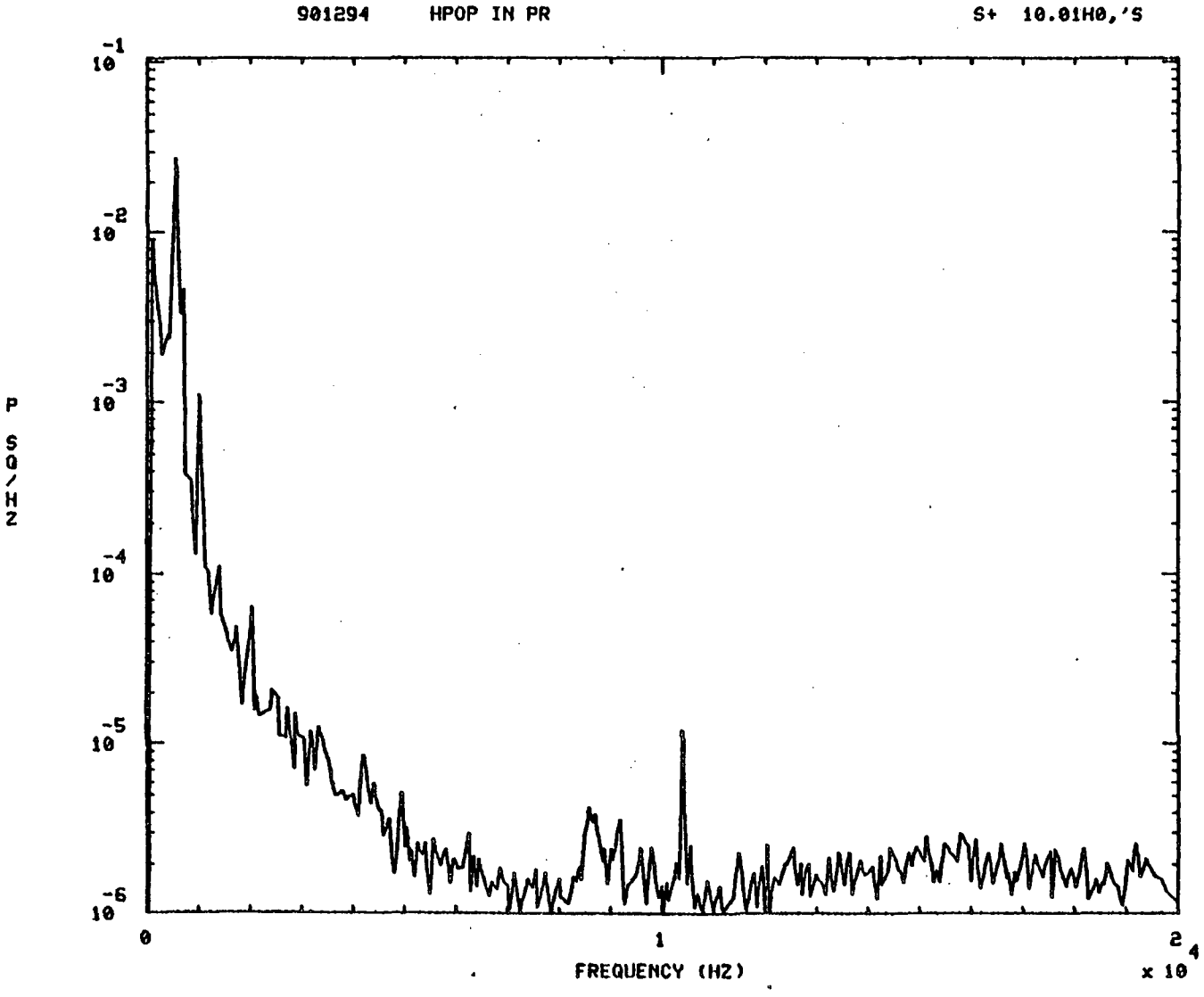
2
FREQUENCY (HZ)
x 10^4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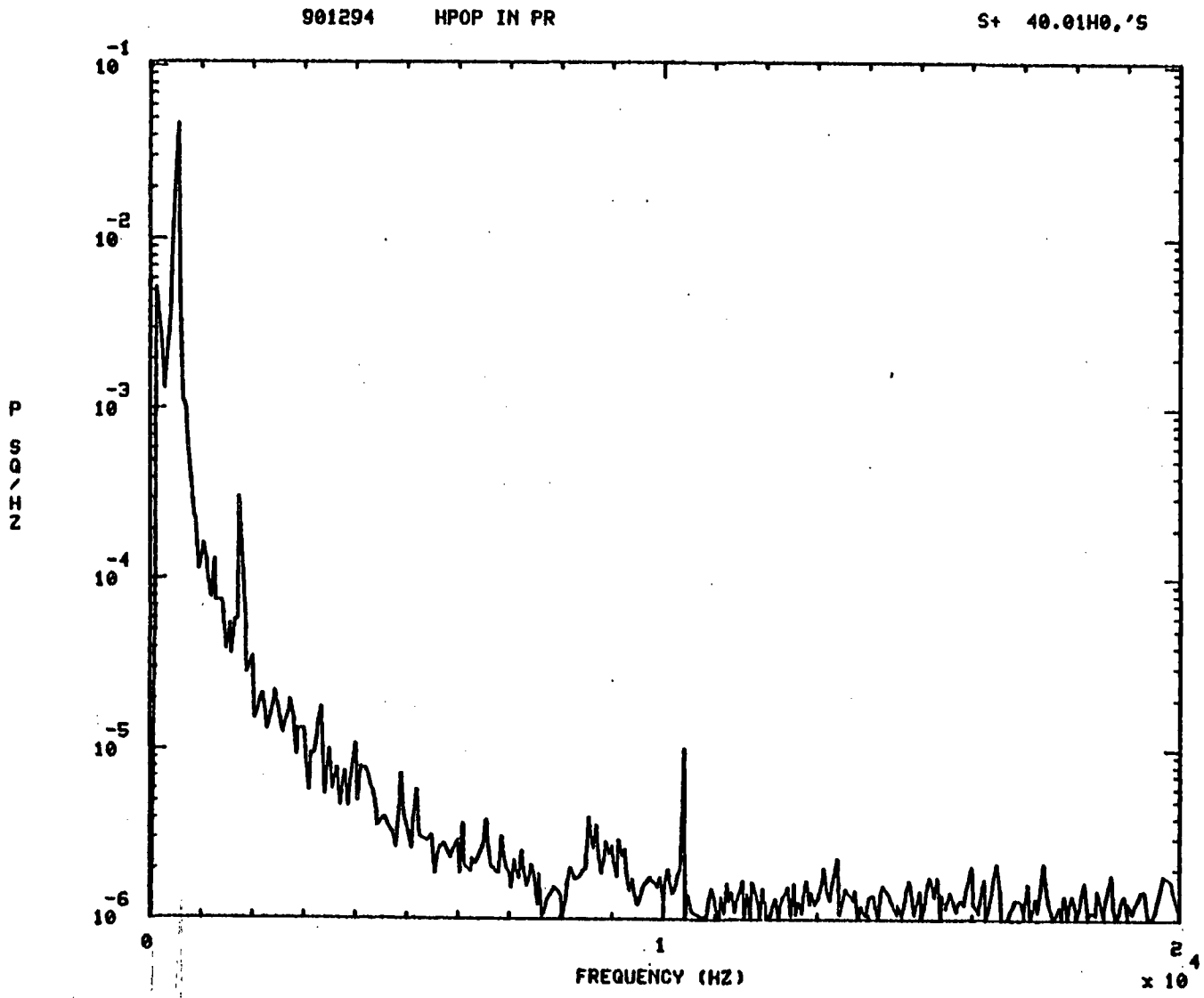
FREQUENCY (HZ)
x 10^4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S
Q
\
H
Z
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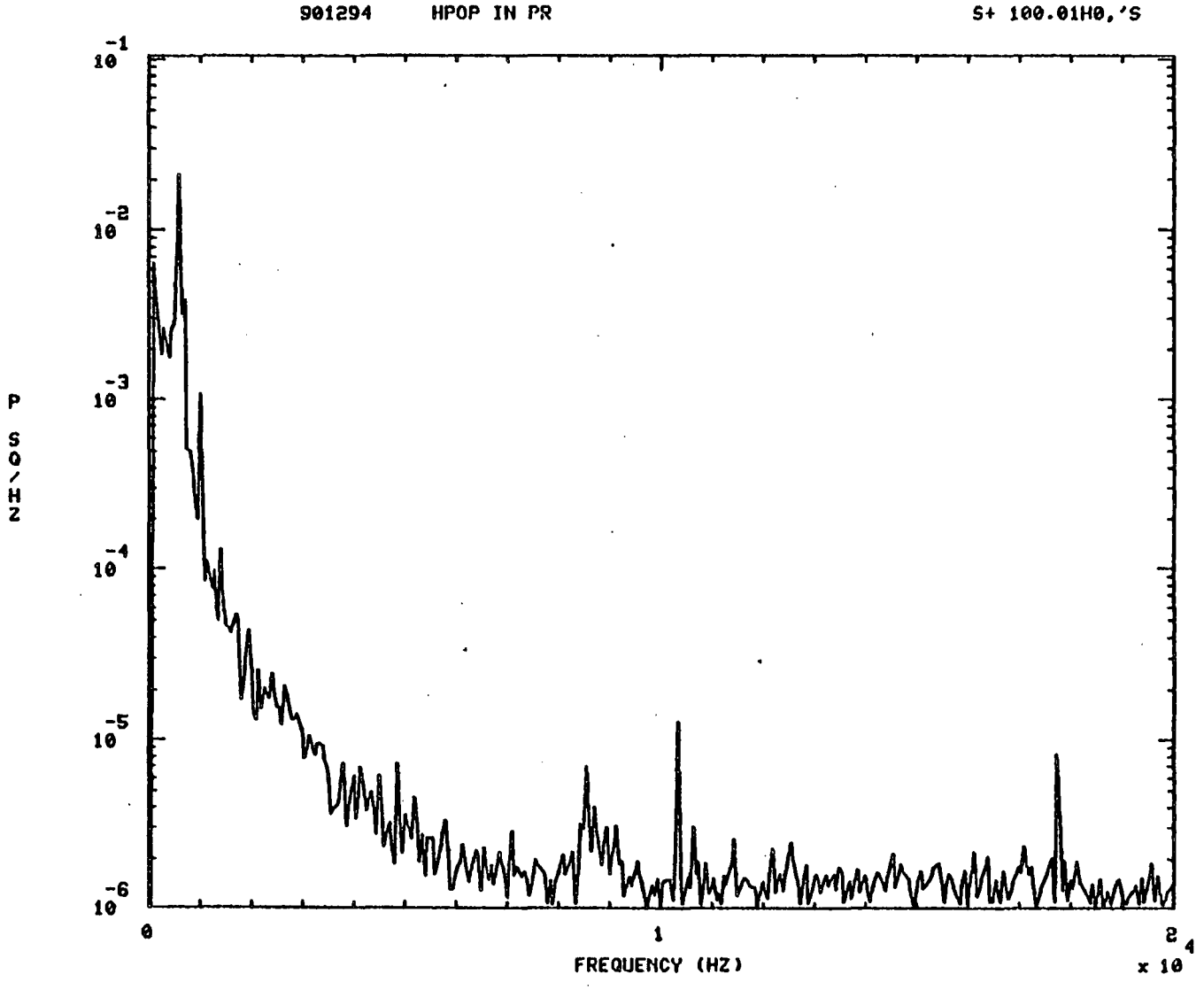
FREQUENCY (HZ)
x 10^4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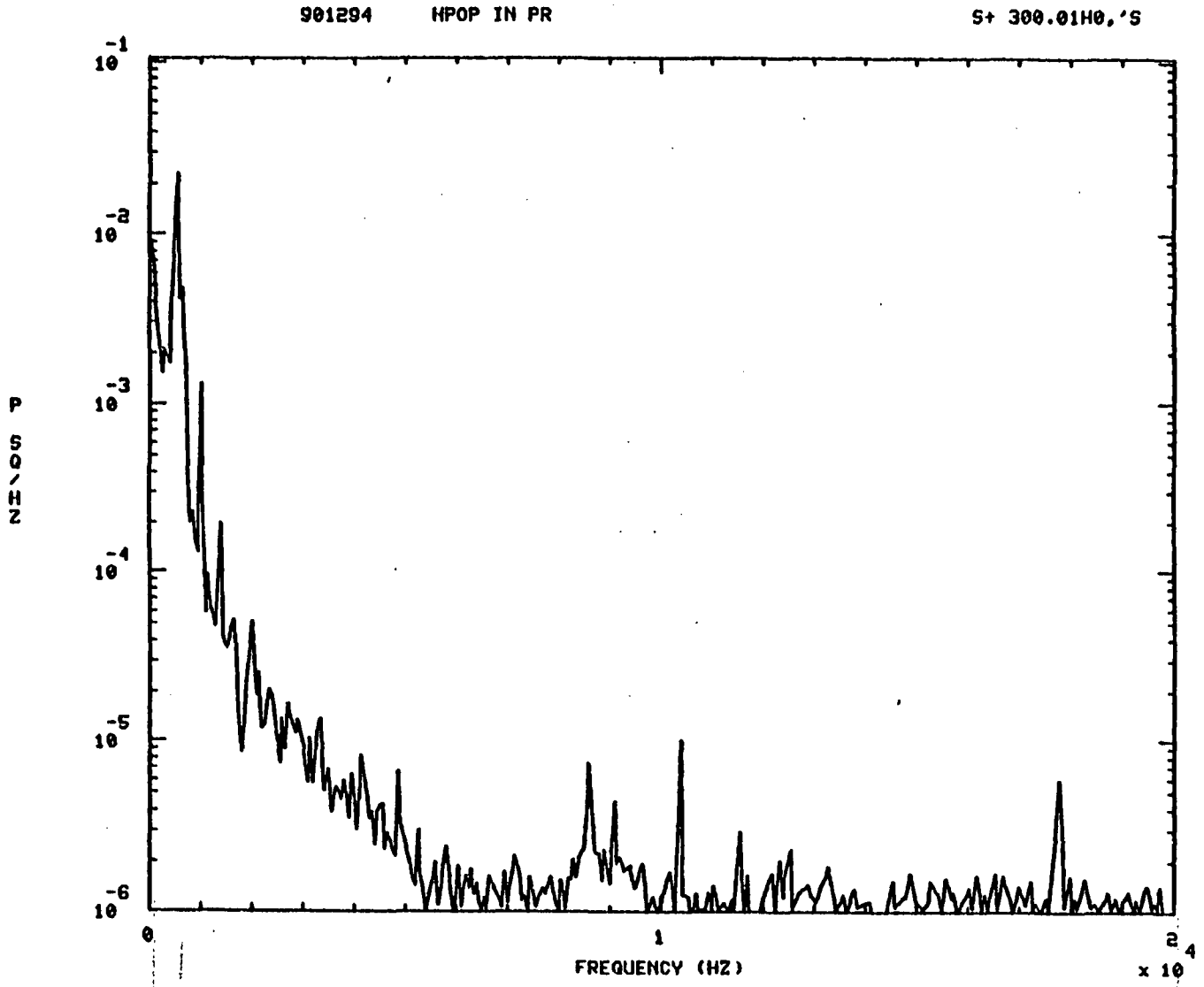
FREQUENCY (HZ)
x 10^4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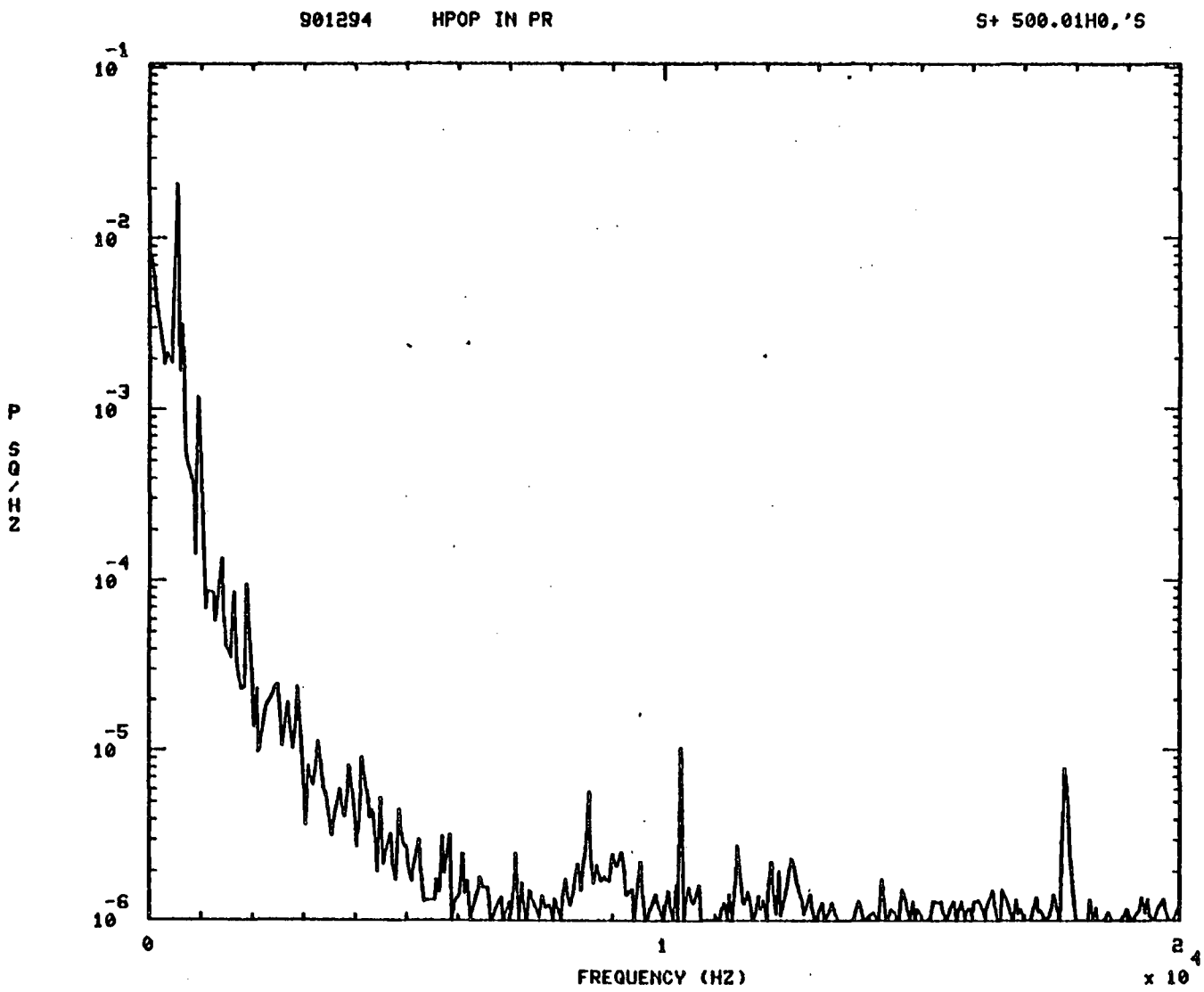
FREQUENCY (HZ)
x 10^4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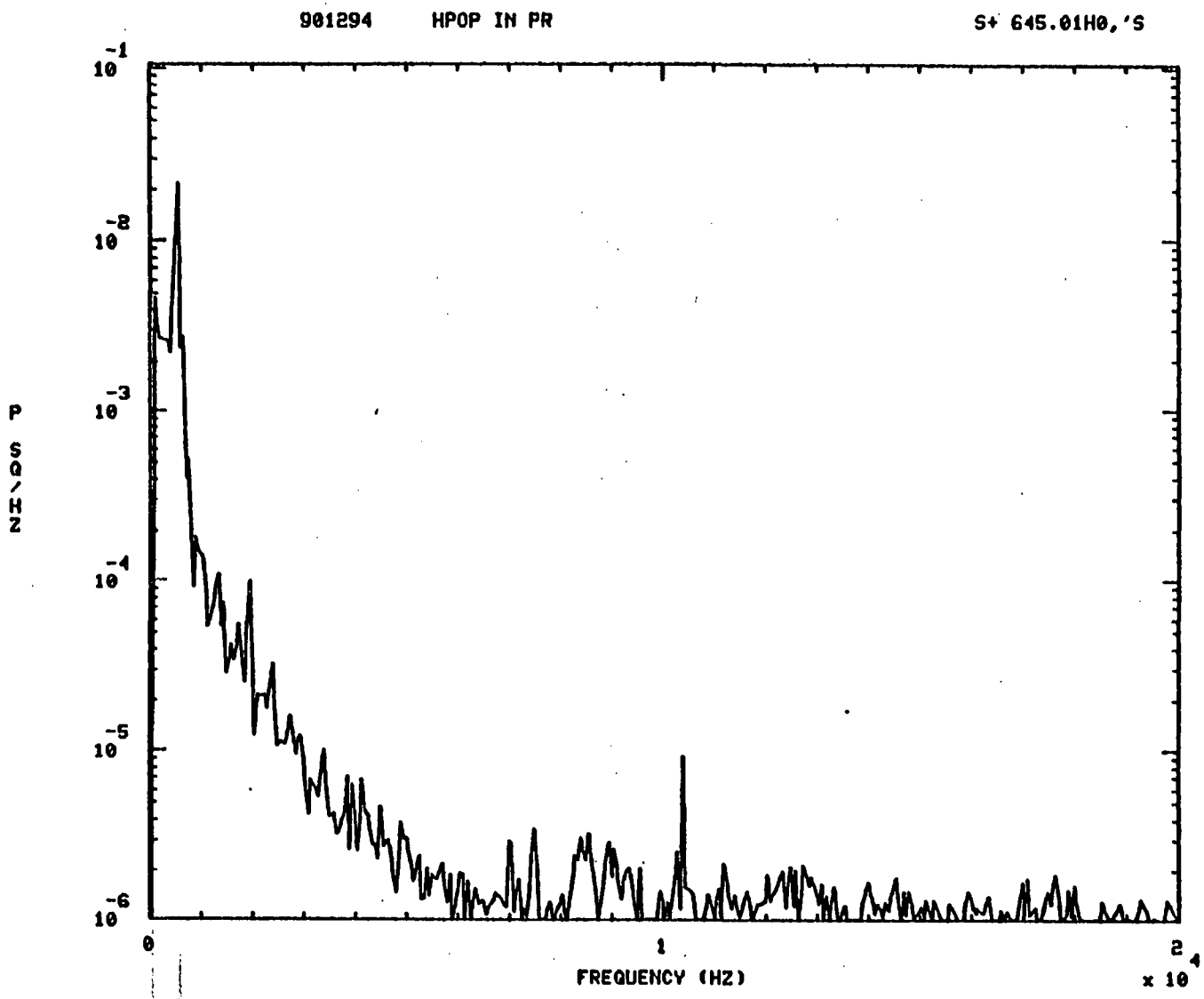
FREQUENCY (HZ)
x 10^4


901294 HPOP IN PR
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P
S
Q
/
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10^-6
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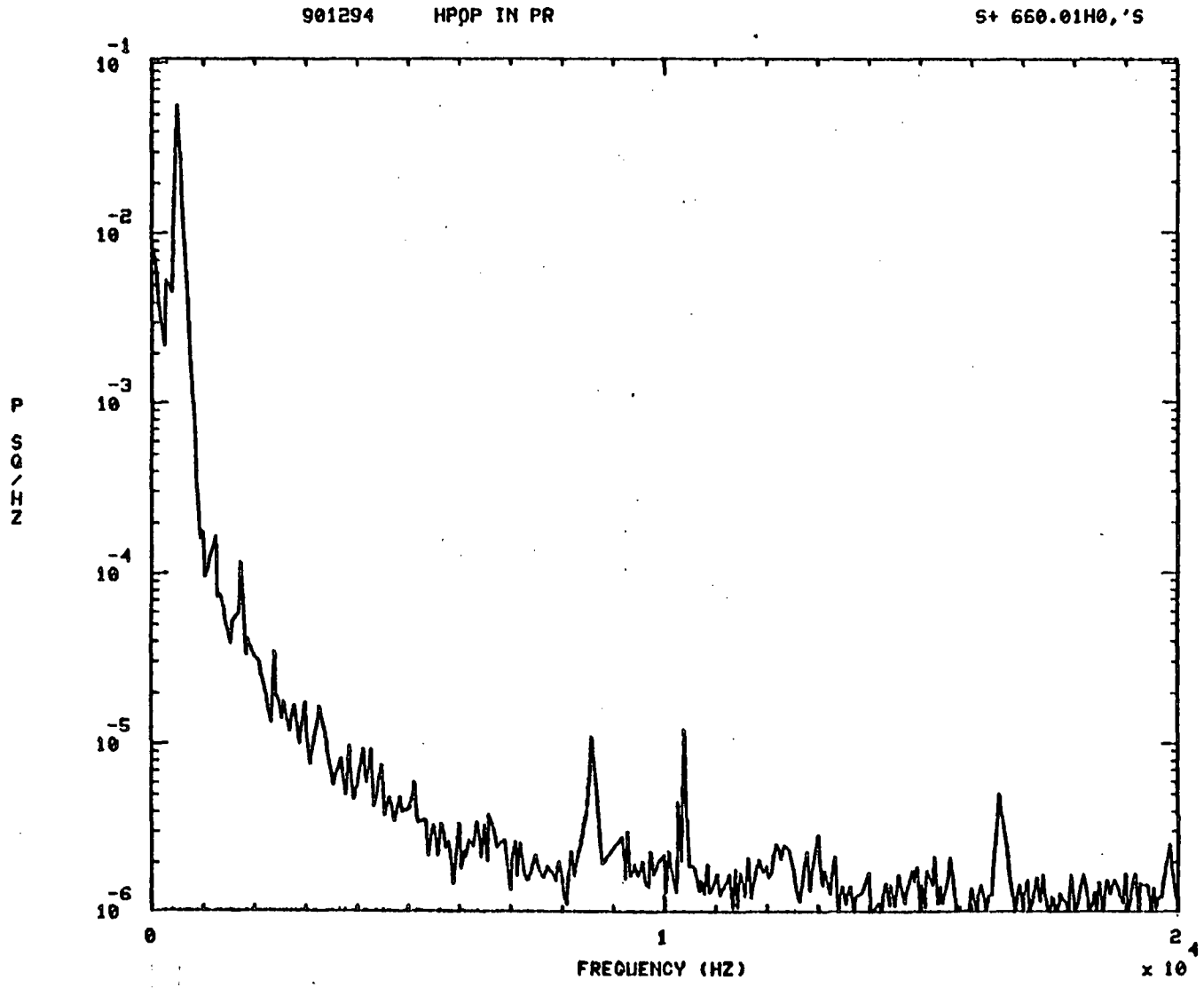
FREQUENCY (HZ)
x 10^4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10^-5
10^-6
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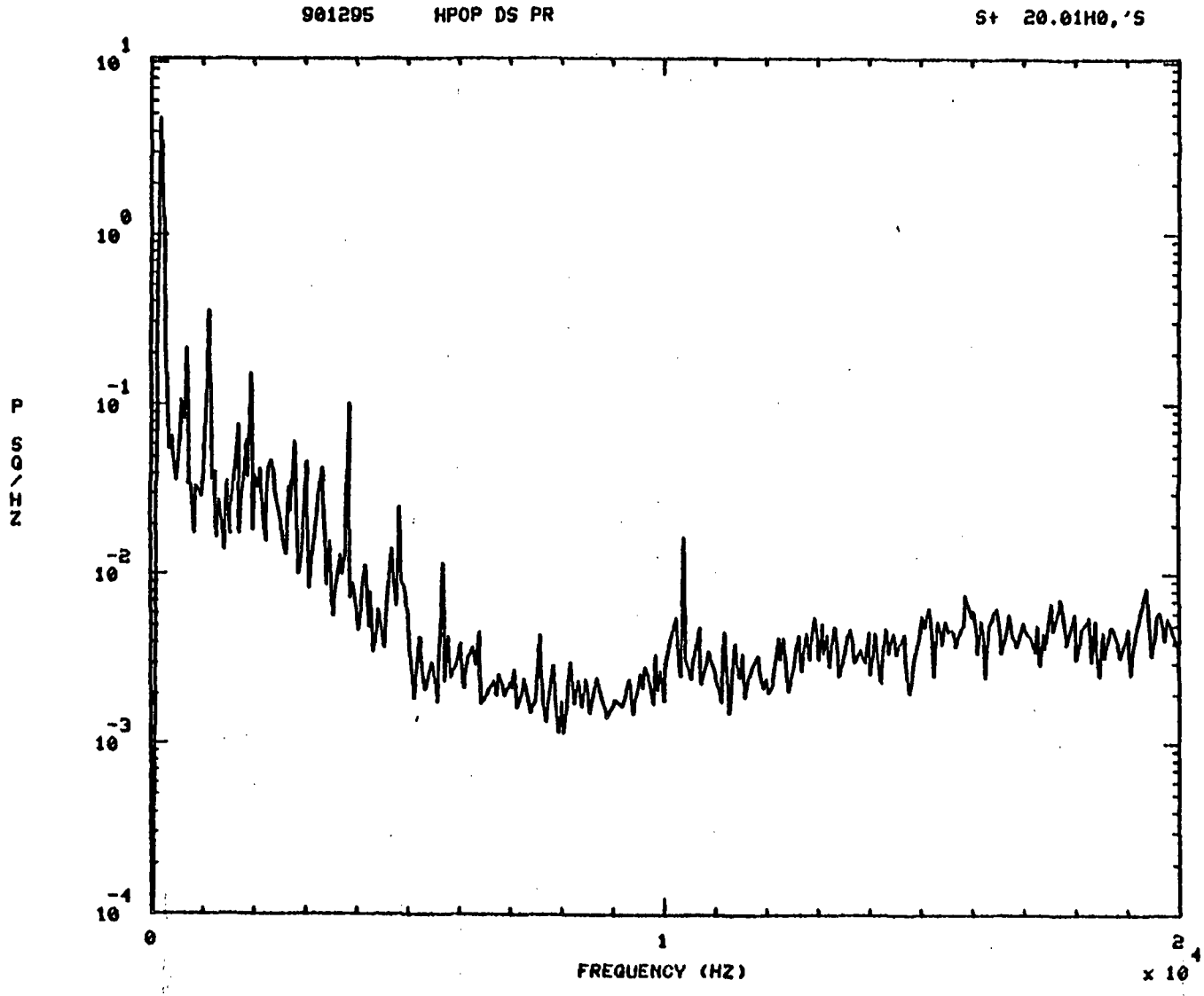
FREQUENCY (HZ)
x 10^4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P S Q / H Z
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10^-1
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10^-3
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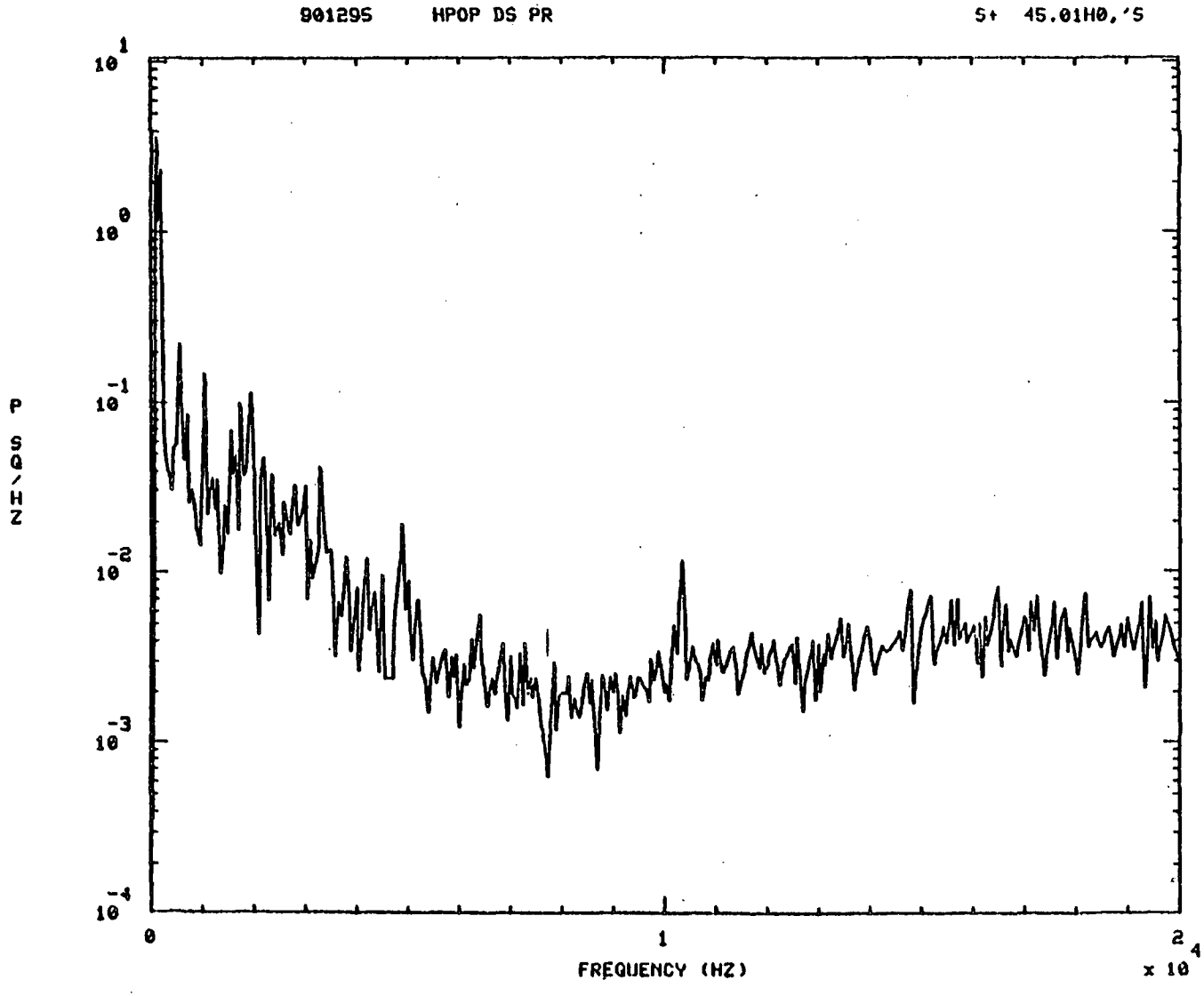
FREQUENCY (HZ)
x 10^4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P SQ/HZ
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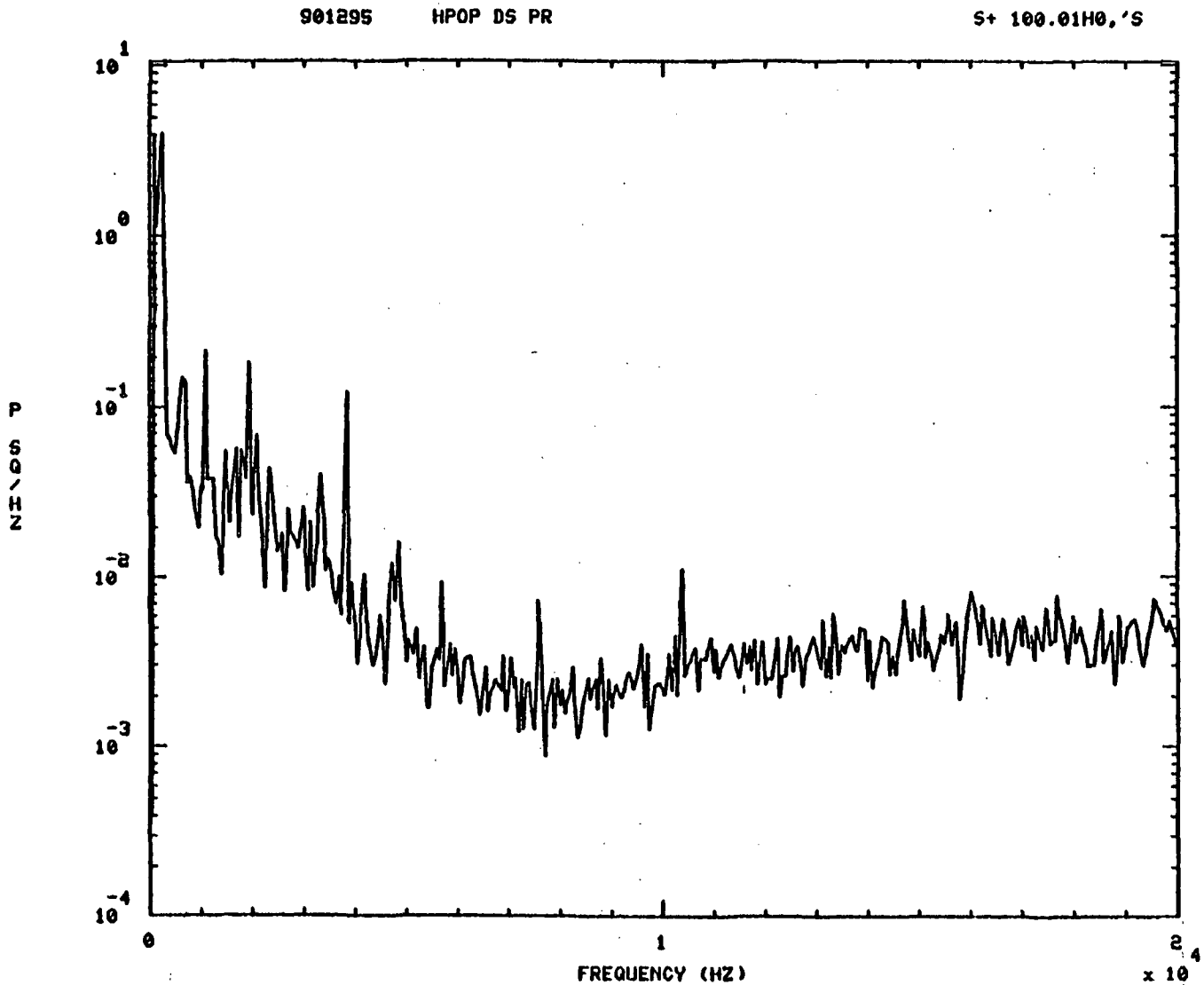
FREQUENCY (HZ)
x 10^4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P S Q \ H Z
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10^-1
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10^-3
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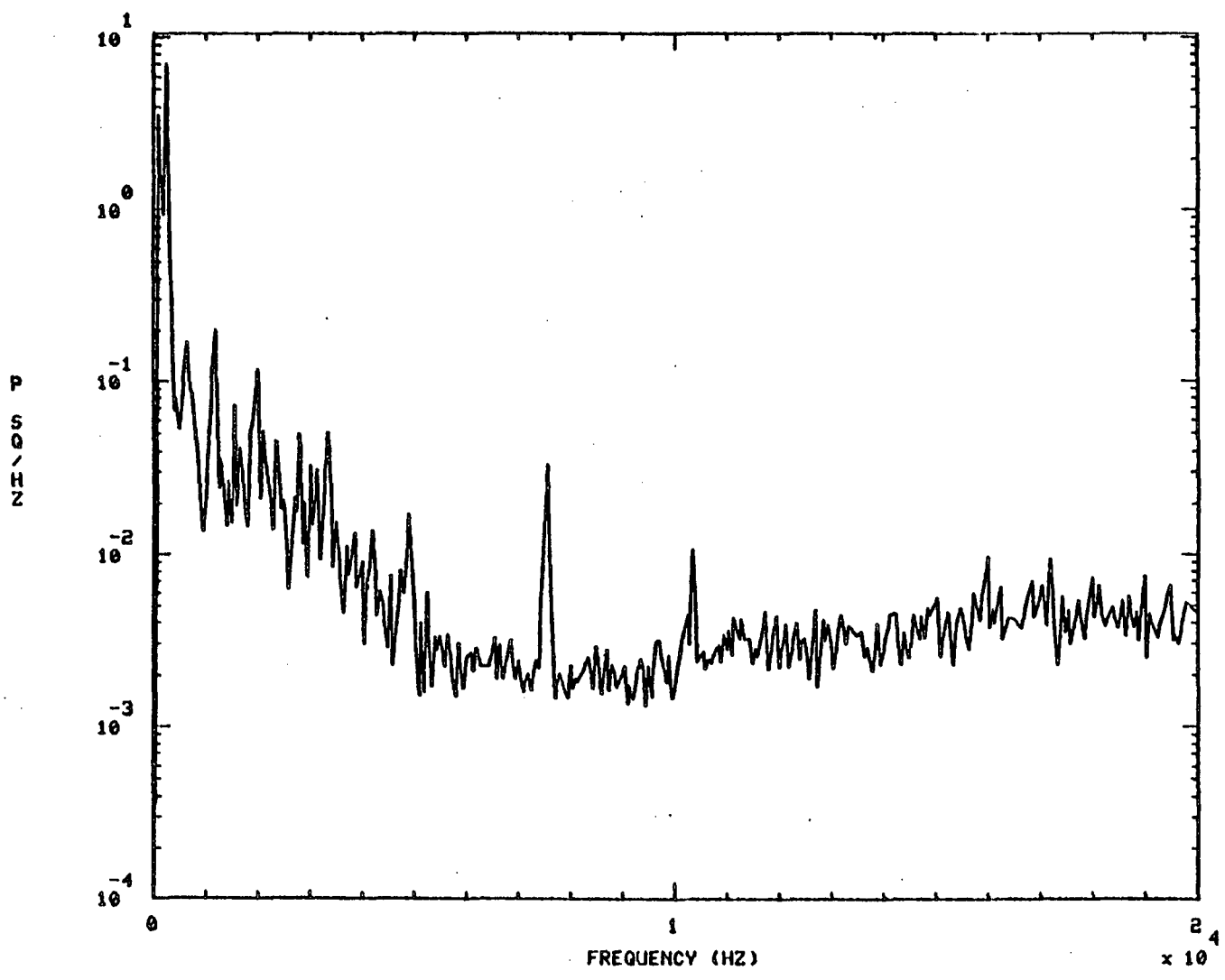
FREQUENCY (HZ)
x 10^4


901295 HPOP DS PR
S+ 300.01H0,'S
P S Q/HZ
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10^-3
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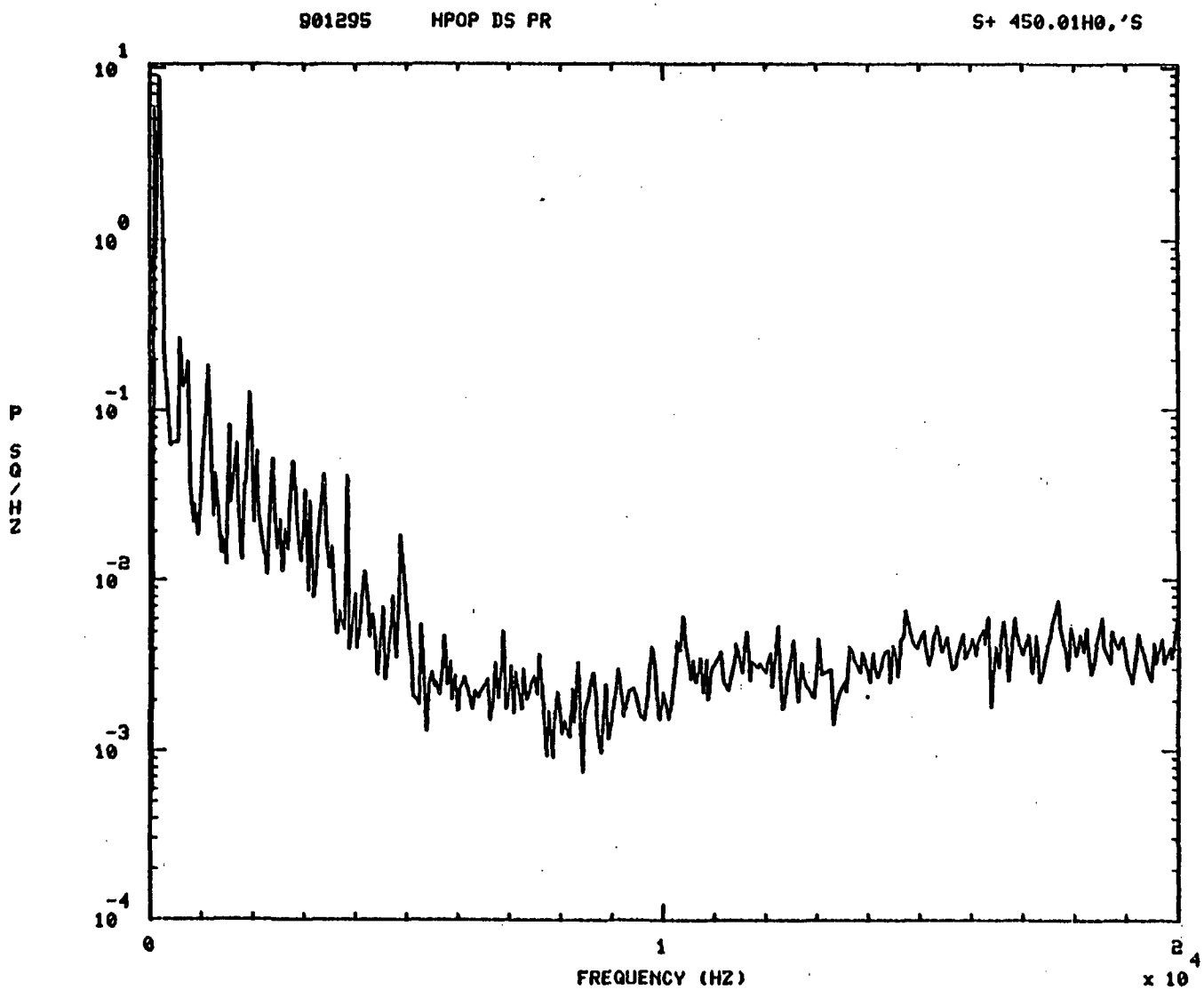
2
FREQUENCY (HZ)
x 10^4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P S Q/HZ
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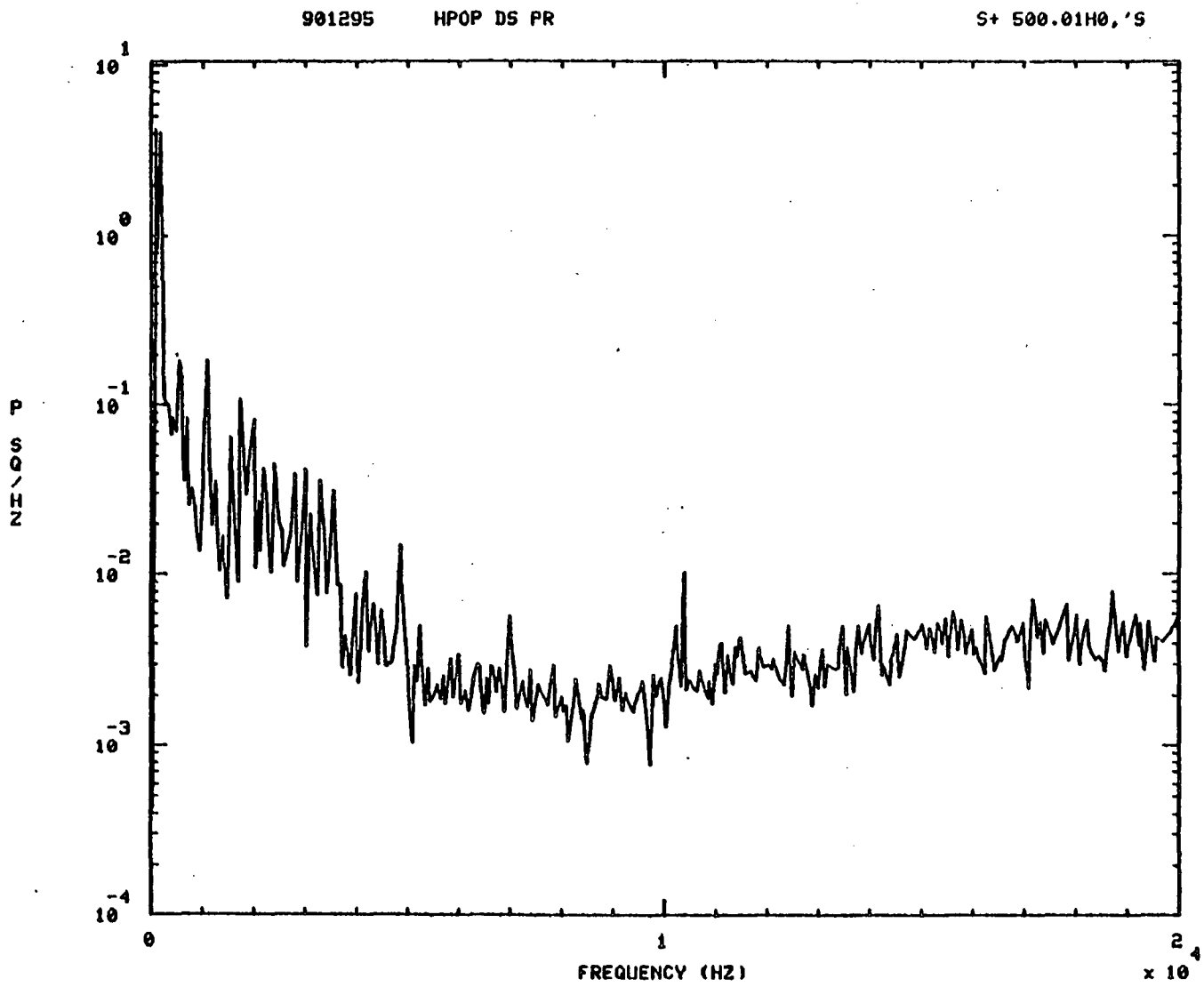
2
FREQUENCY (HZ)
x 10^4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P SQ\HZ
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10^-1
10^-2
10^-3
10^-4
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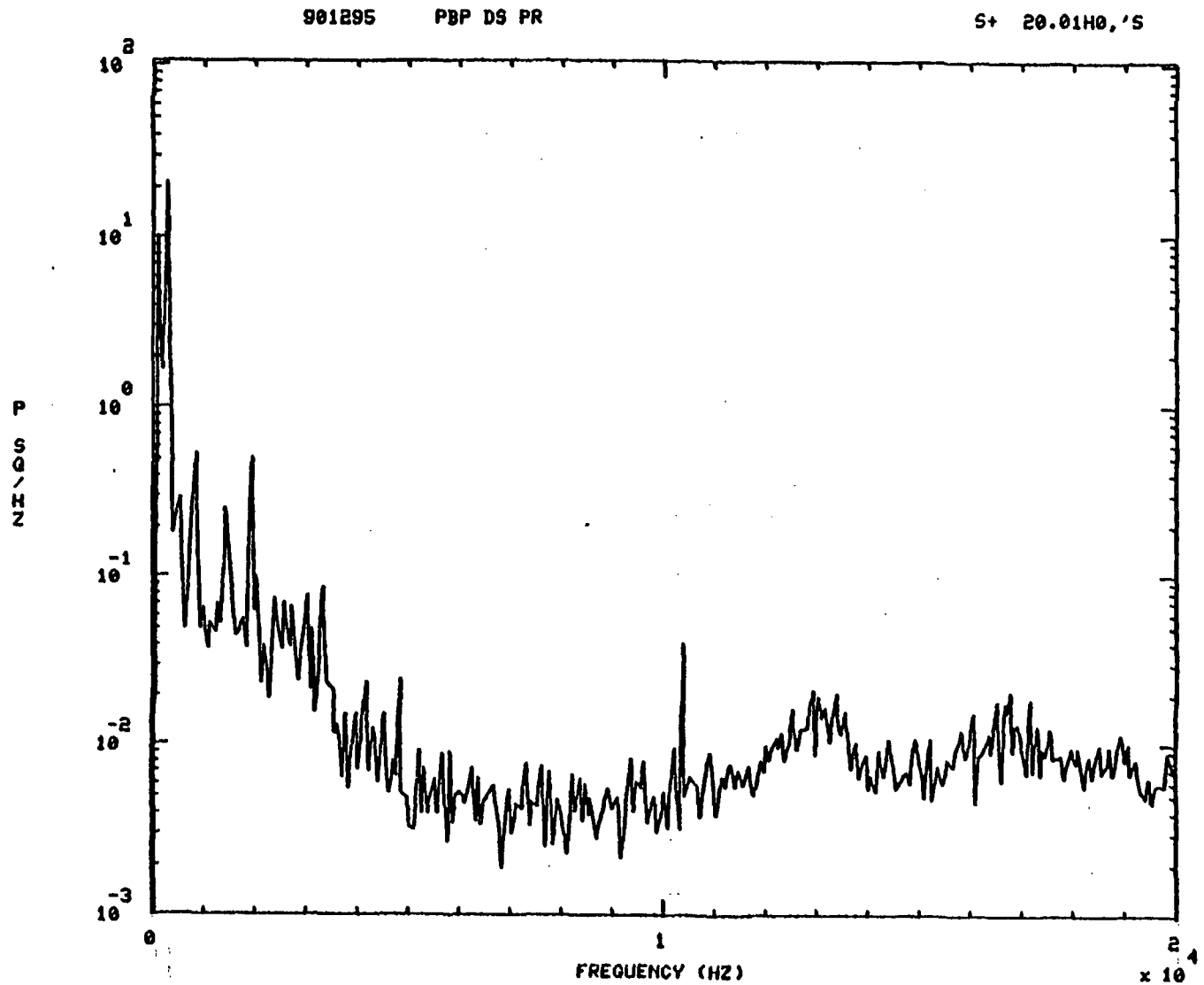
1
2
FREQUENCY (HZ)
x 10^4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P SQ/HZ
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10^0
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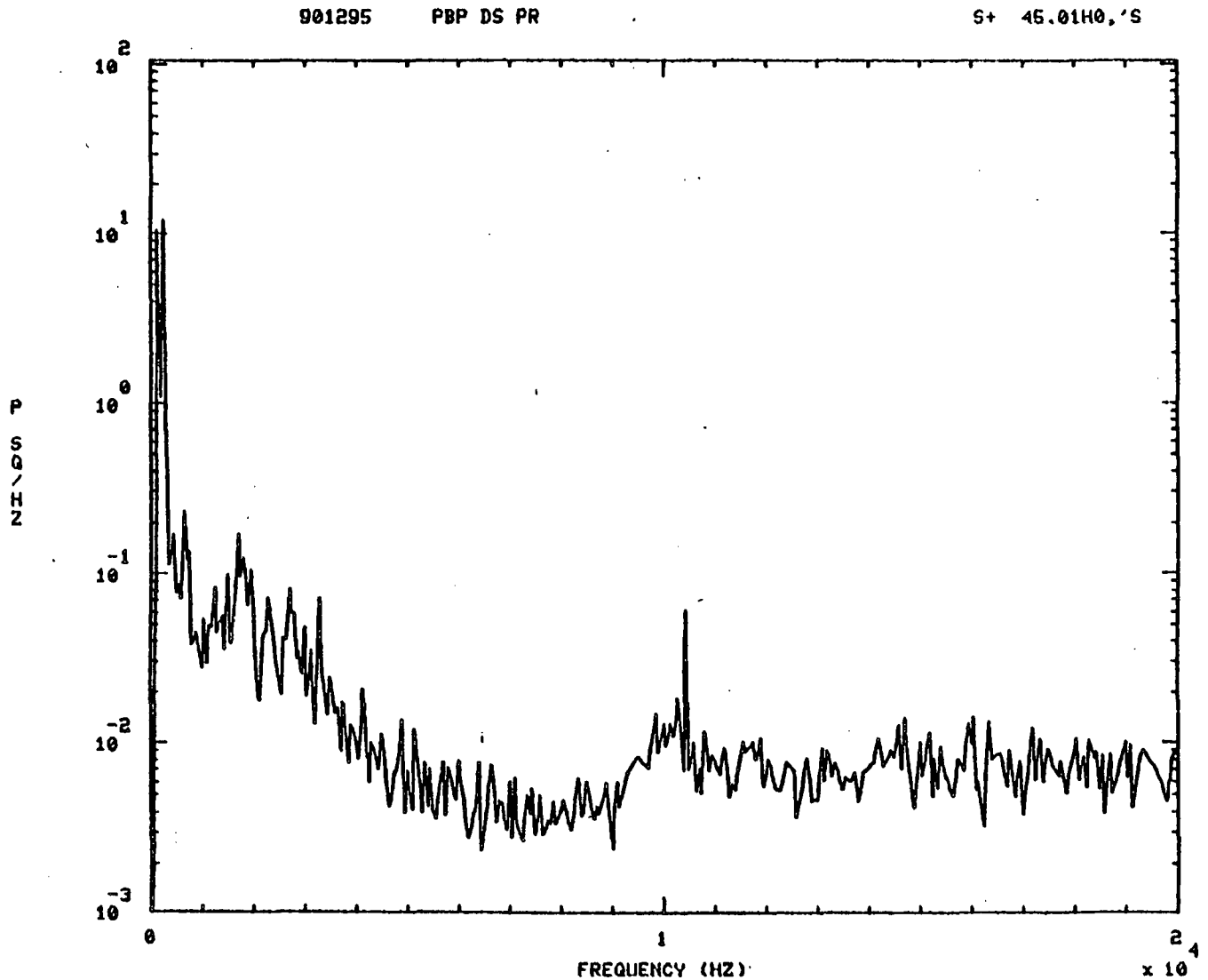
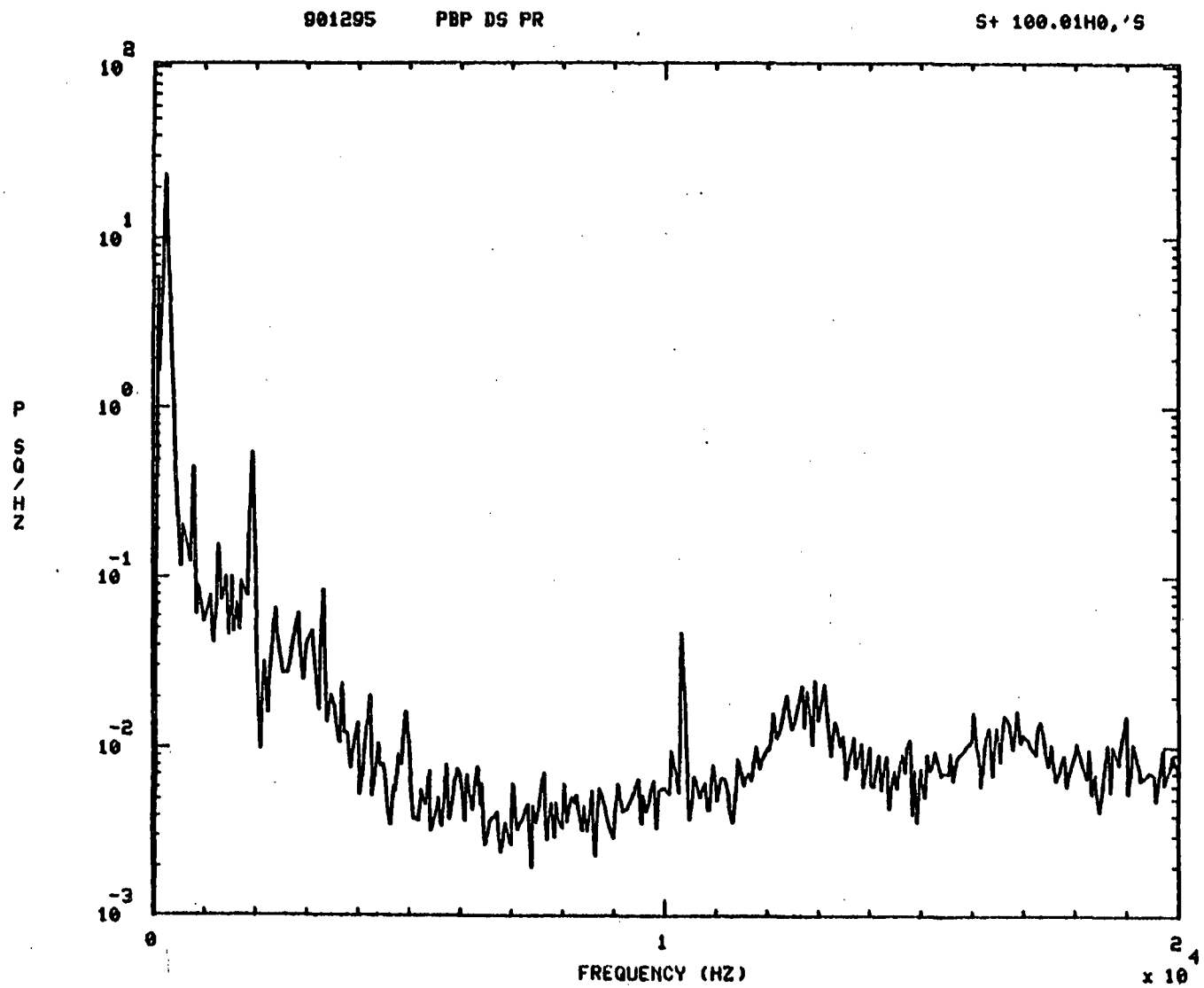
FREQUENCY (HZ)
x 10^4


901295 PBP DS PR
S+ 45.01H0,'S
P S Q \ H Z
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4


901295 PBP DS PR
S+ 100.01H0,'S
P S0/HZ
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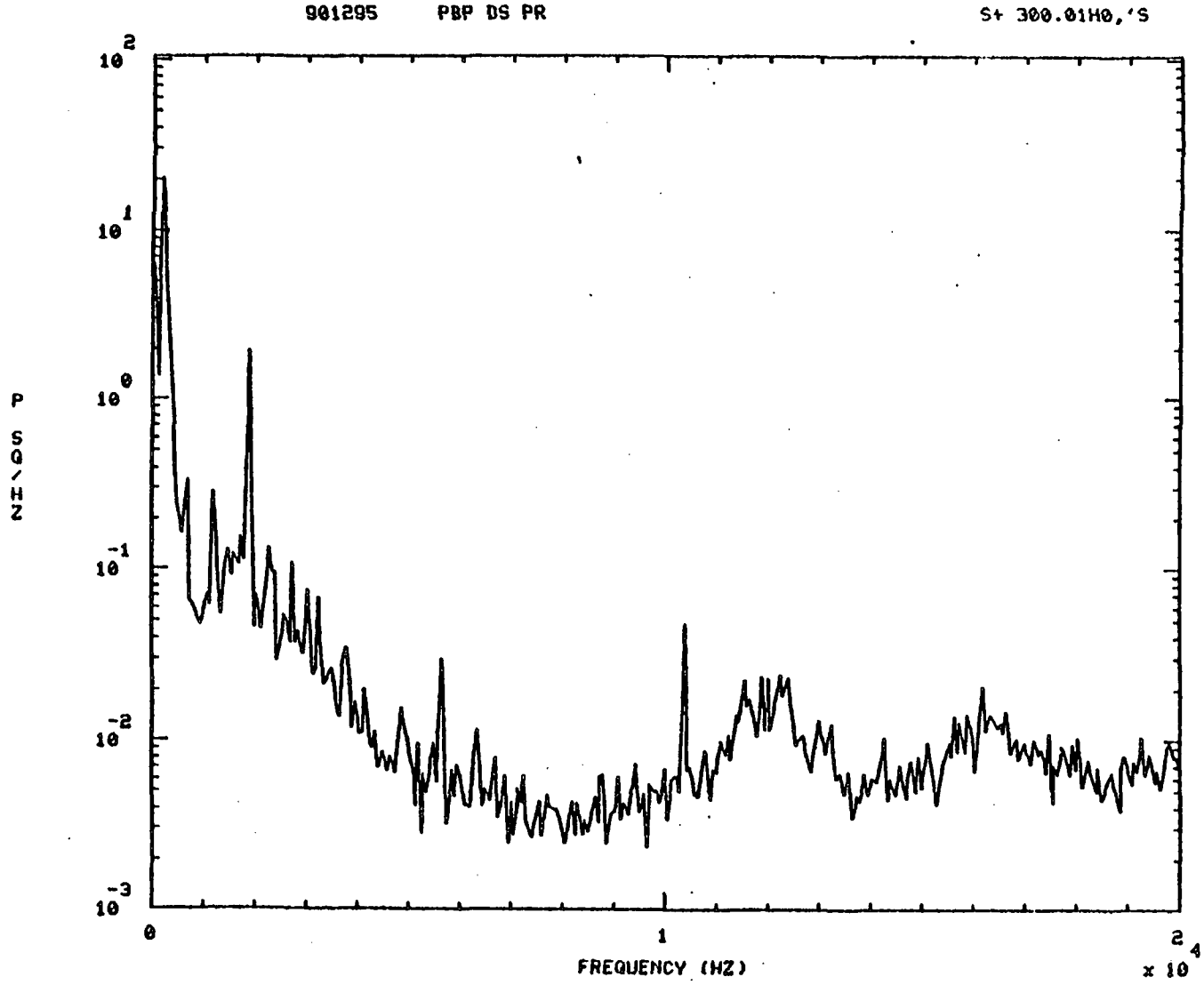
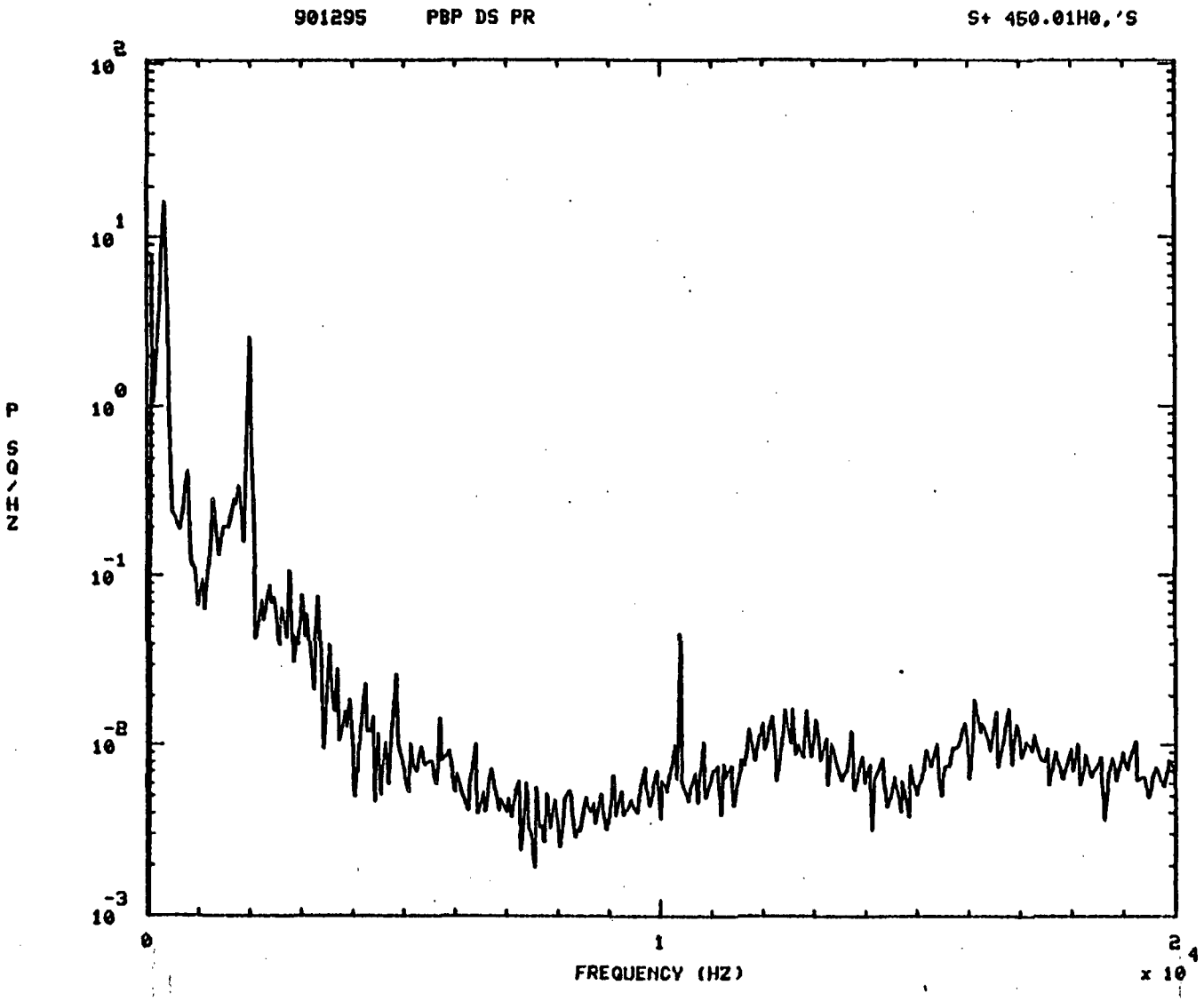
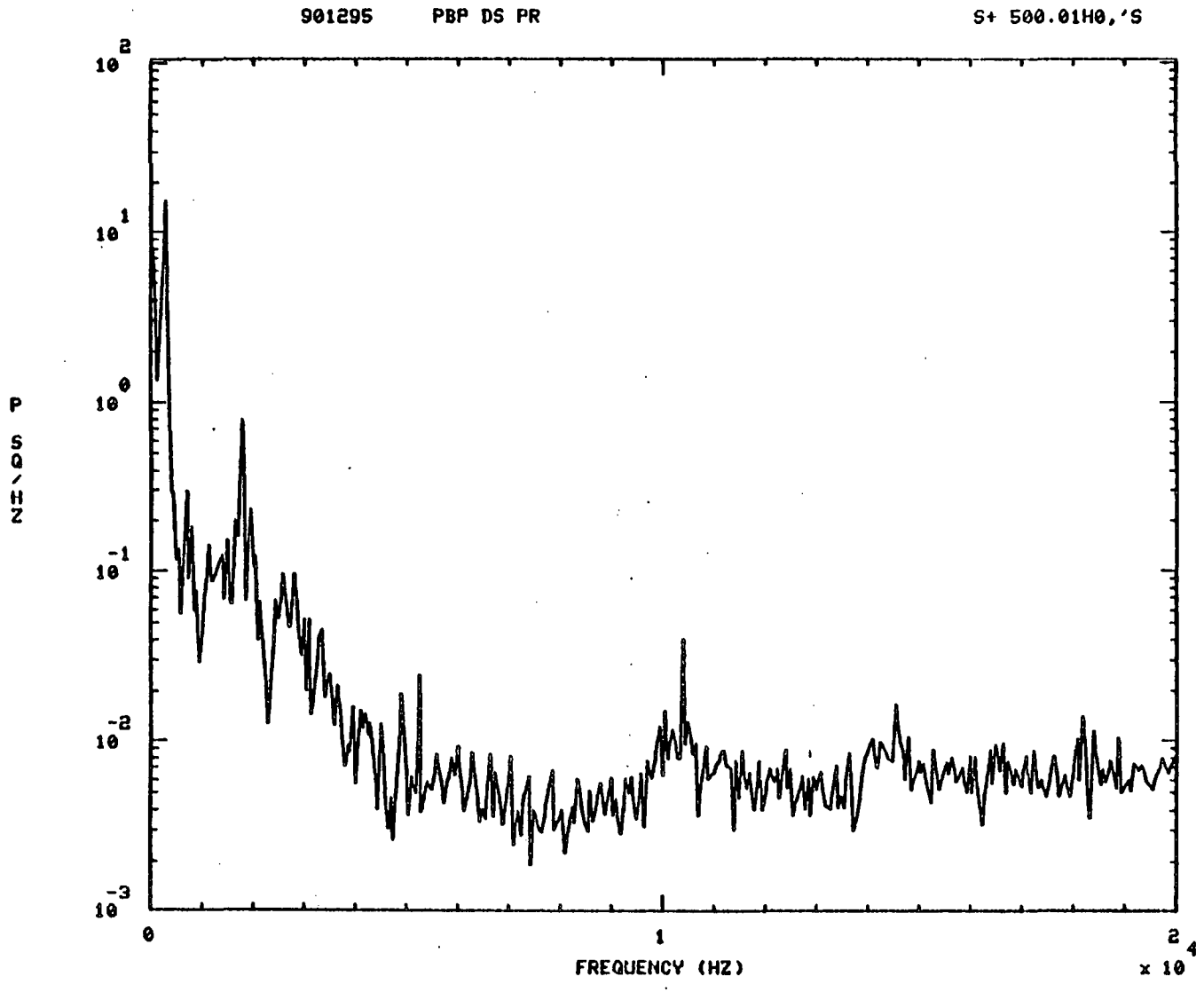
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4


901295 PBP DS PR
S+ 300.01H0,'S
P S Q / H Z
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4


901295 PBP DS PR
S+ 450.01H0,'S
P SQ\HZ
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4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S+ 500.01H0,'S
P S Q / H Z
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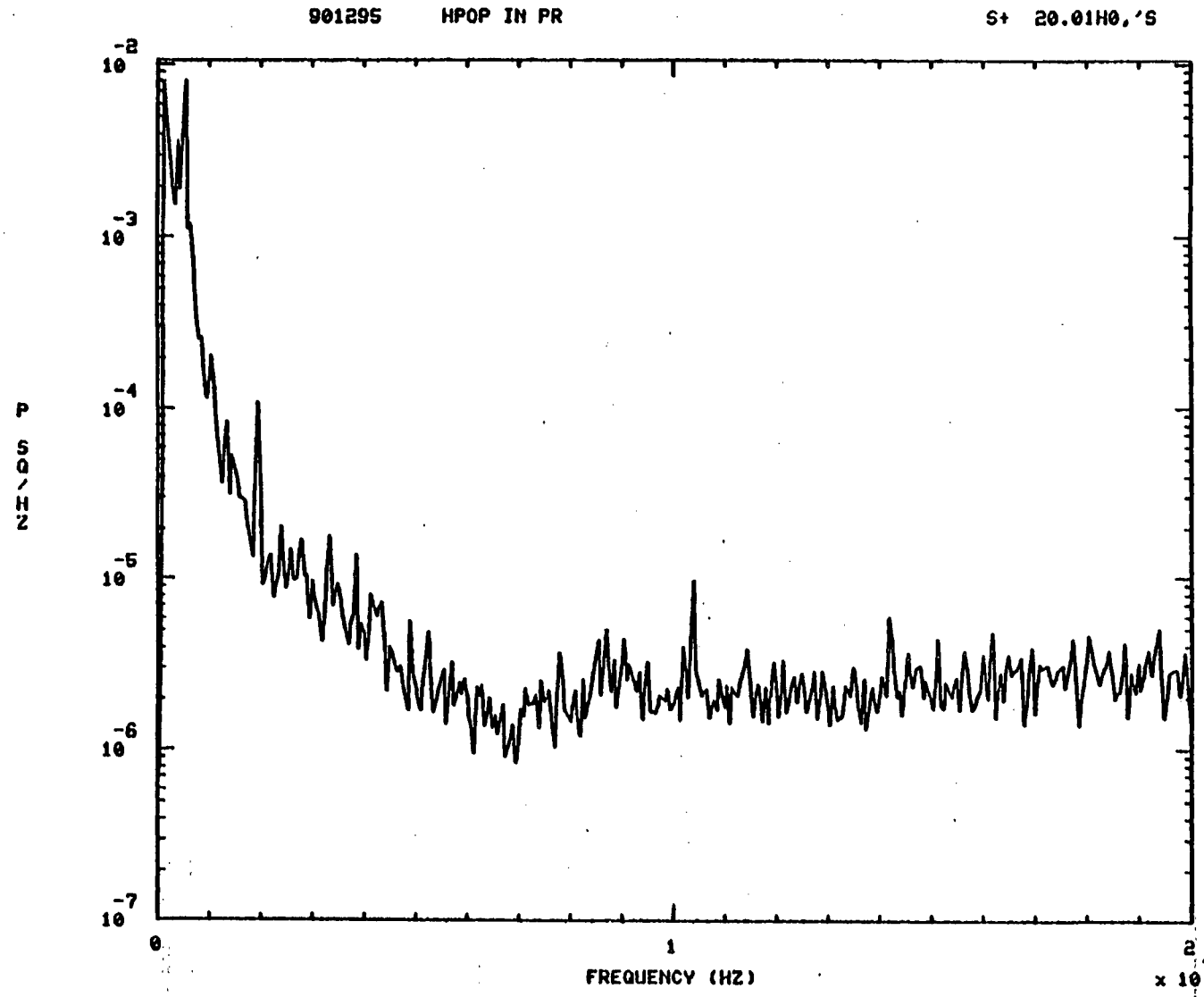
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4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P SQ\HZ
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10^-3
10^-4
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10^-6
10^-7
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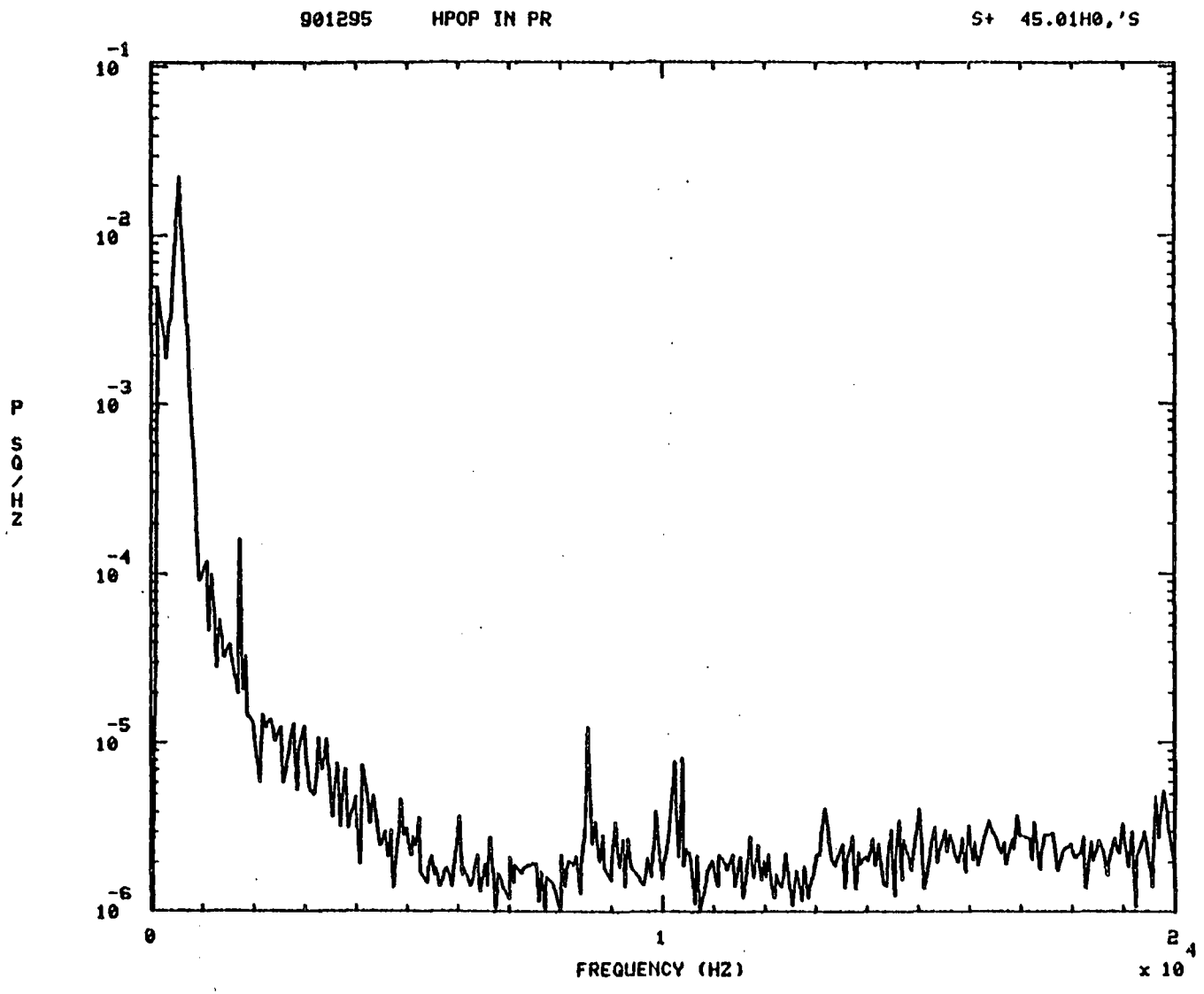
1
2
FREQUENCY (HZ)
x 10^4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S+ 45.01H0,'S
P
S
Q
\
H
Z
10^-1
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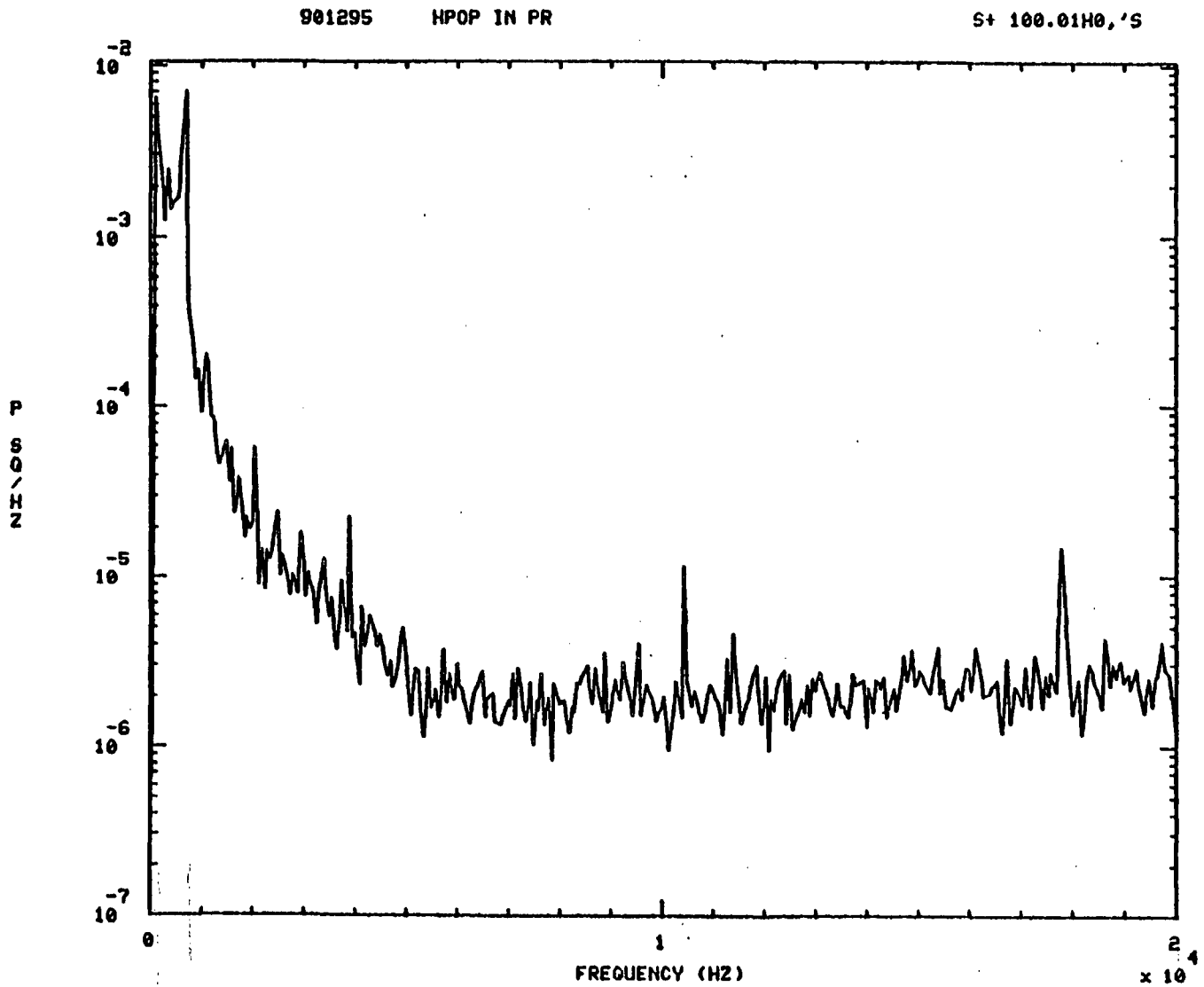
10^-3
10^-4
10^-5
10^-6
0
1
2
FREQUENCY (HZ)
x 10^4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P S Q / H Z
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10^-4
10^-5
10^-6
10^-7
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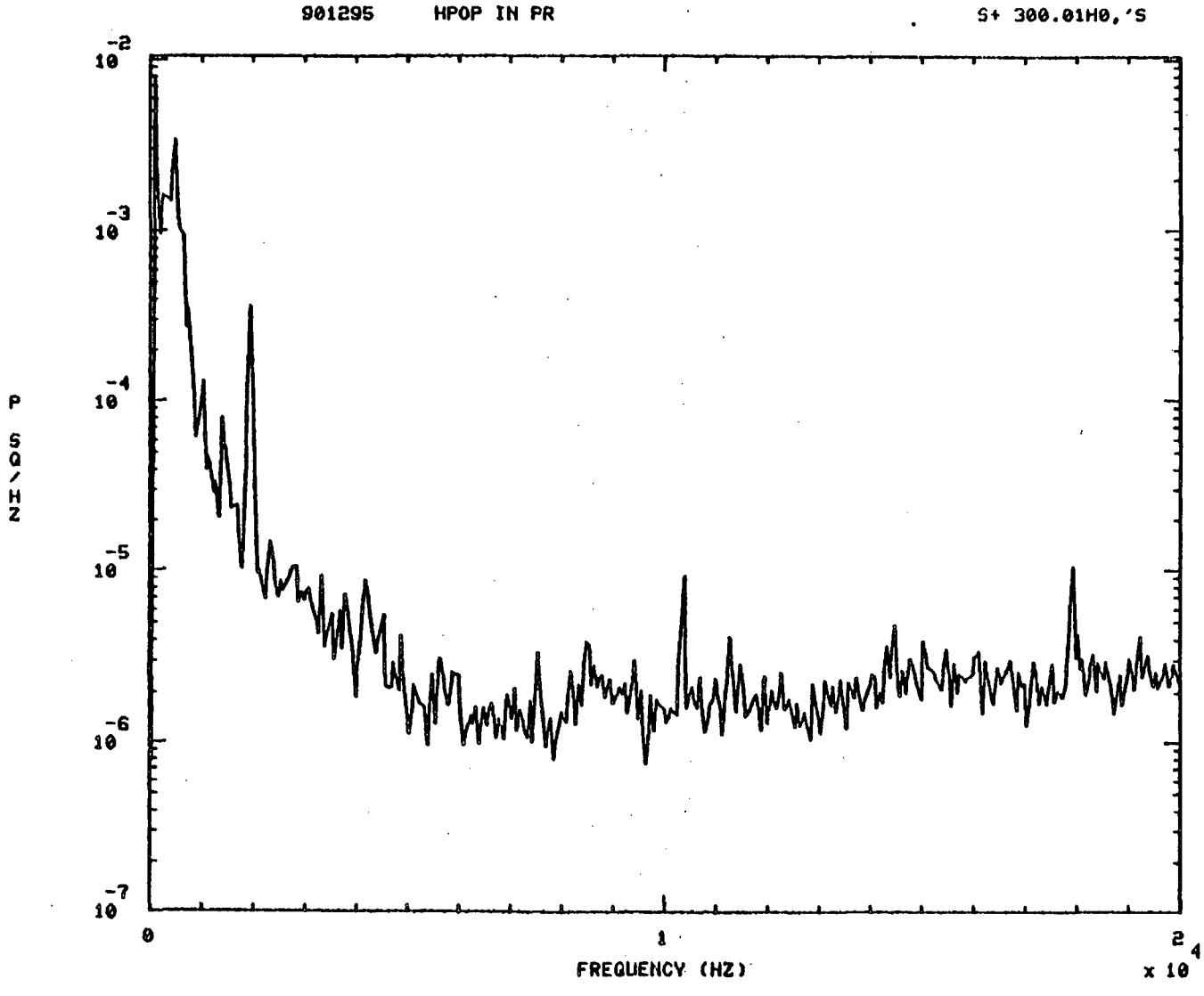
1
2
FREQUENCY (HZ)
x 10^4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S+ 300.01H0,'S
P SQ/HZ
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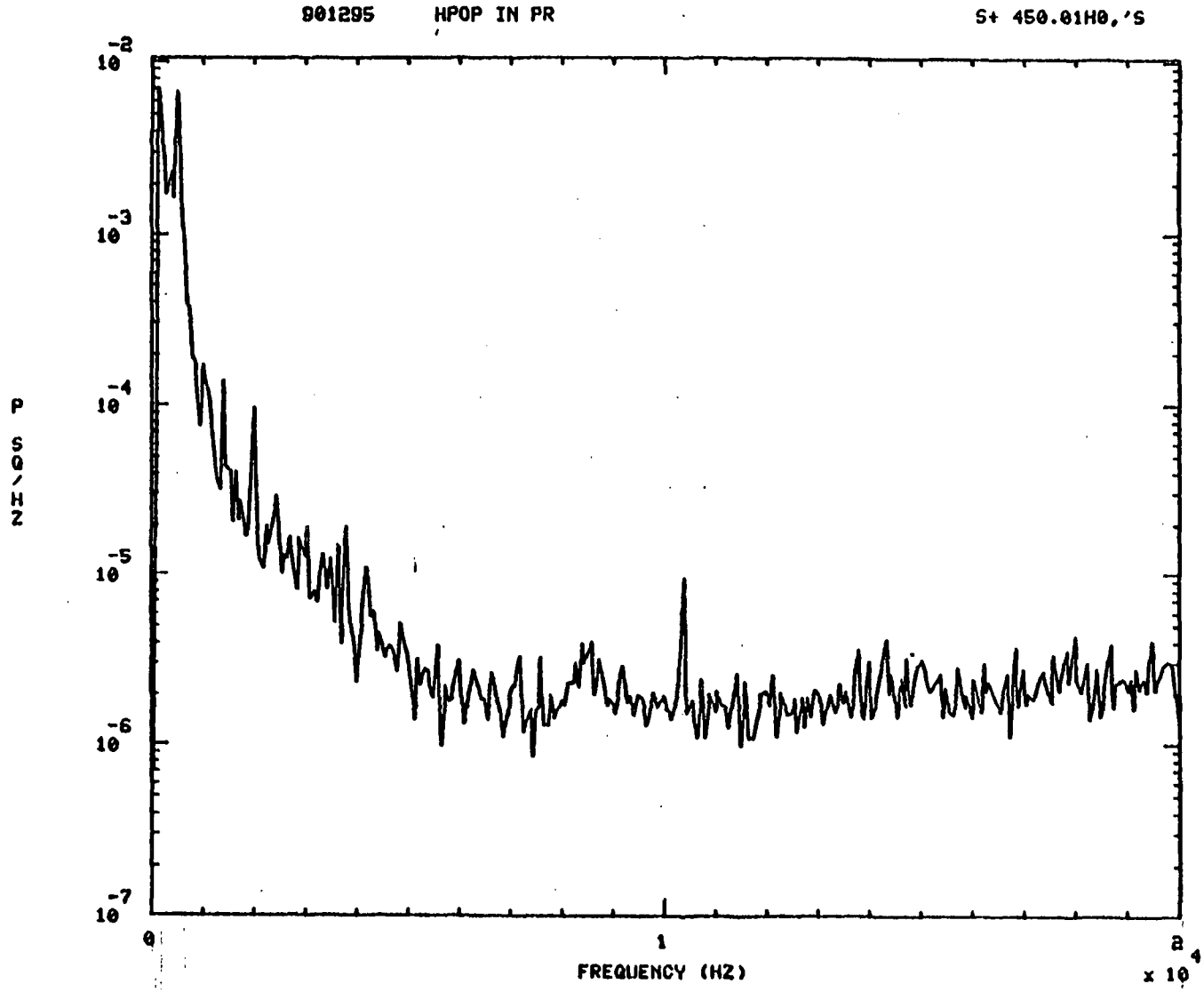
10^-3
10^-4
10^-5
10^-6
10^-7
0
1
2
FREQUENCY (HZ)
x 10^4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S+ 450.01H0,'S
P S Q / H Z
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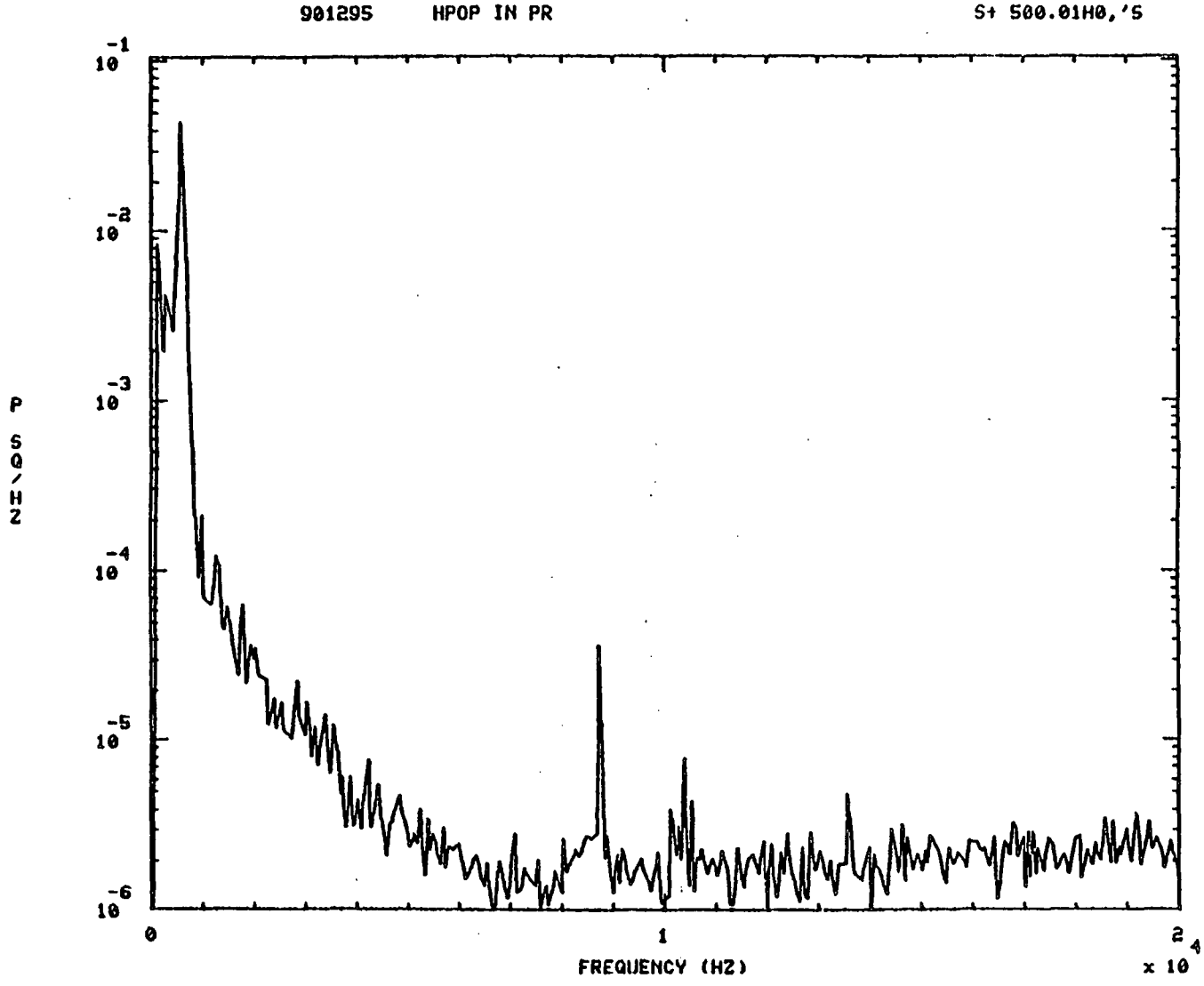
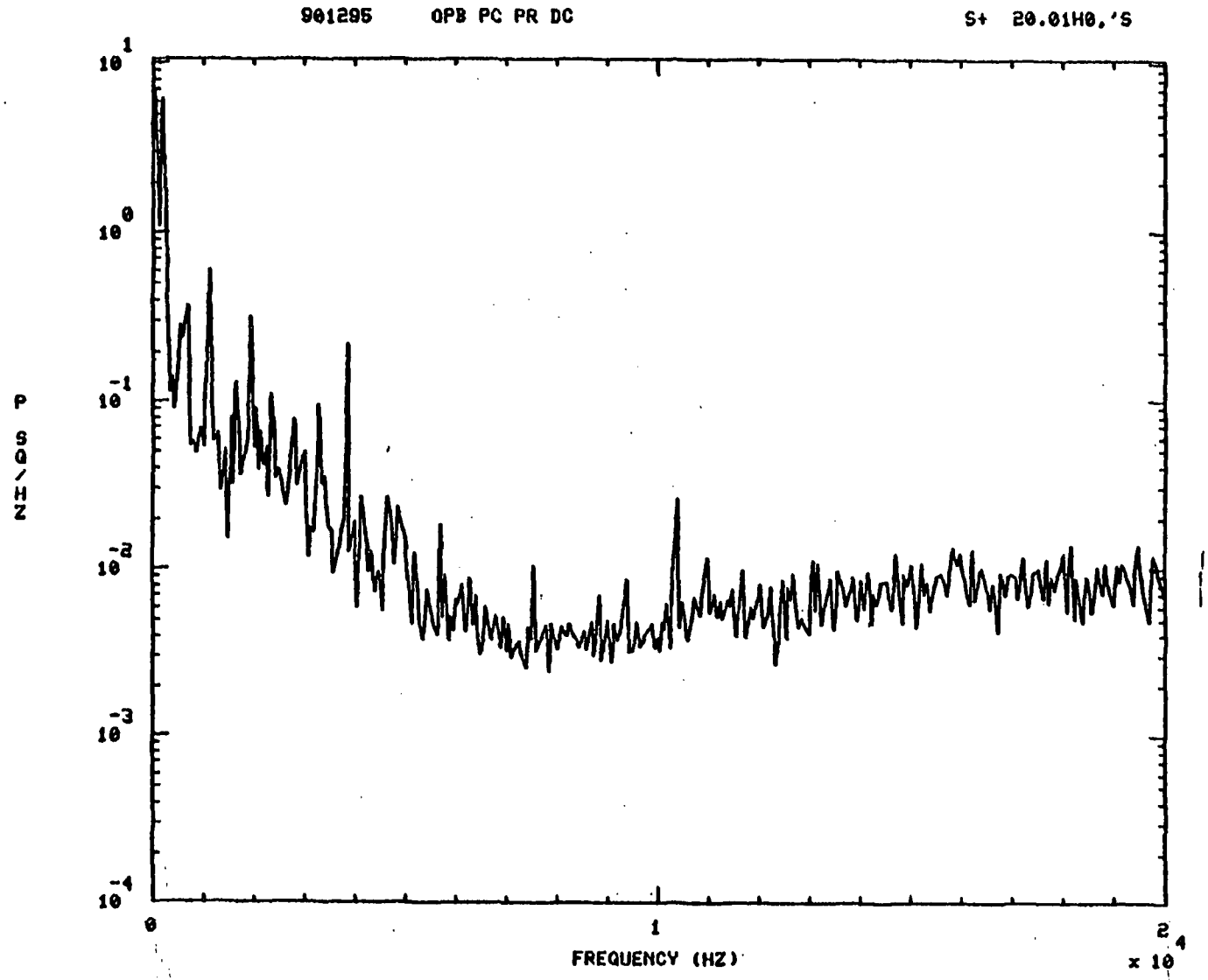
10^-3
10^-4
10^-5
10^-6
10^-7
0
1
2
FREQUENCY (HZ)
x 10^4


901295 HPOP IN PR
S+ 500.01H0,'S
P S0/HZ
10^-1
10^-2
10^-3
10^-4
10^-5
10^-6
0
1
2
FREQUENCY (HZ)
x 10^4


901295 OPB PC PR DC
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P S Q \ H Z
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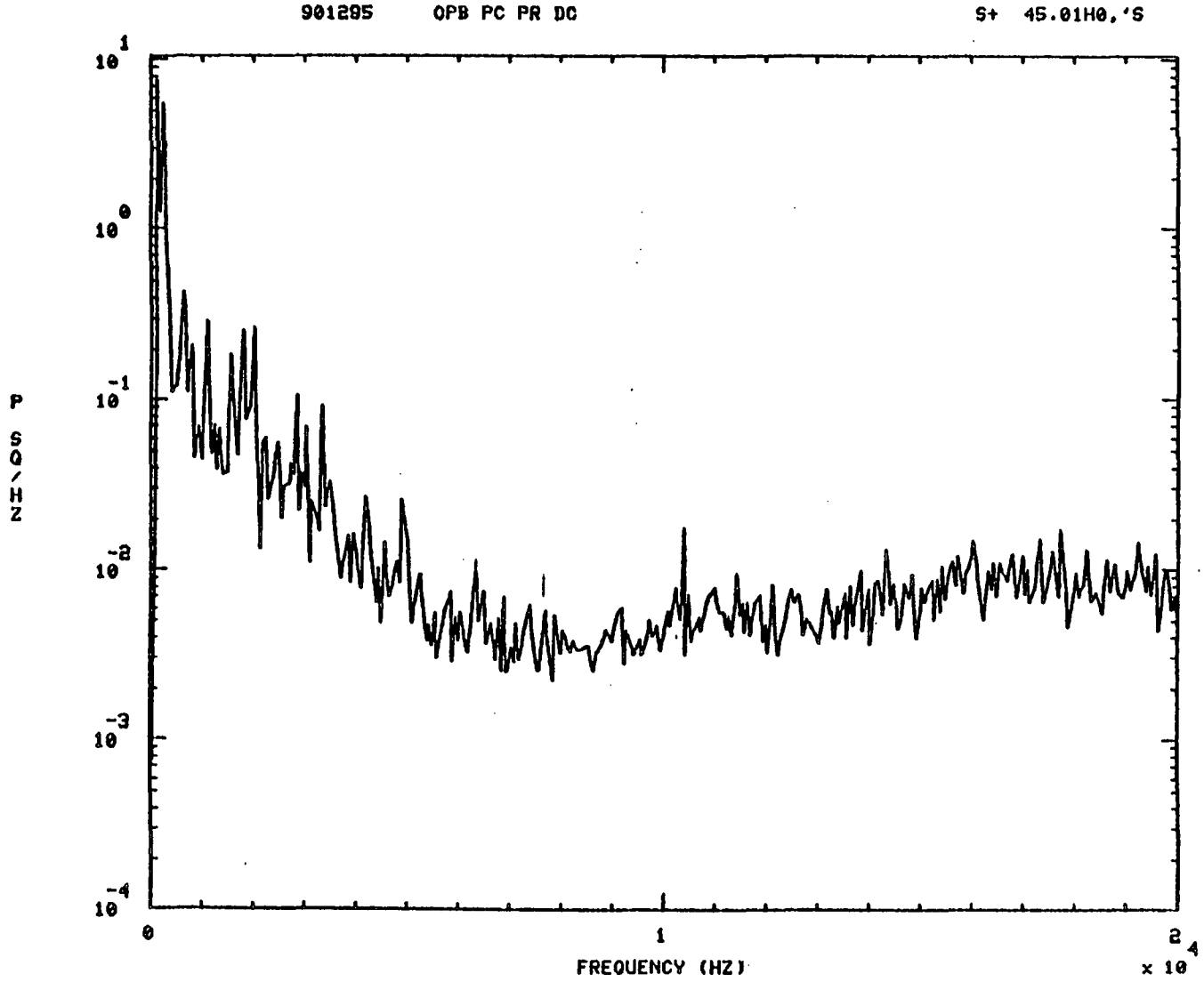
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
FREQUENCY (HZ)
x 10^4


901295 OPB PC PR DC
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P SQ/HZ
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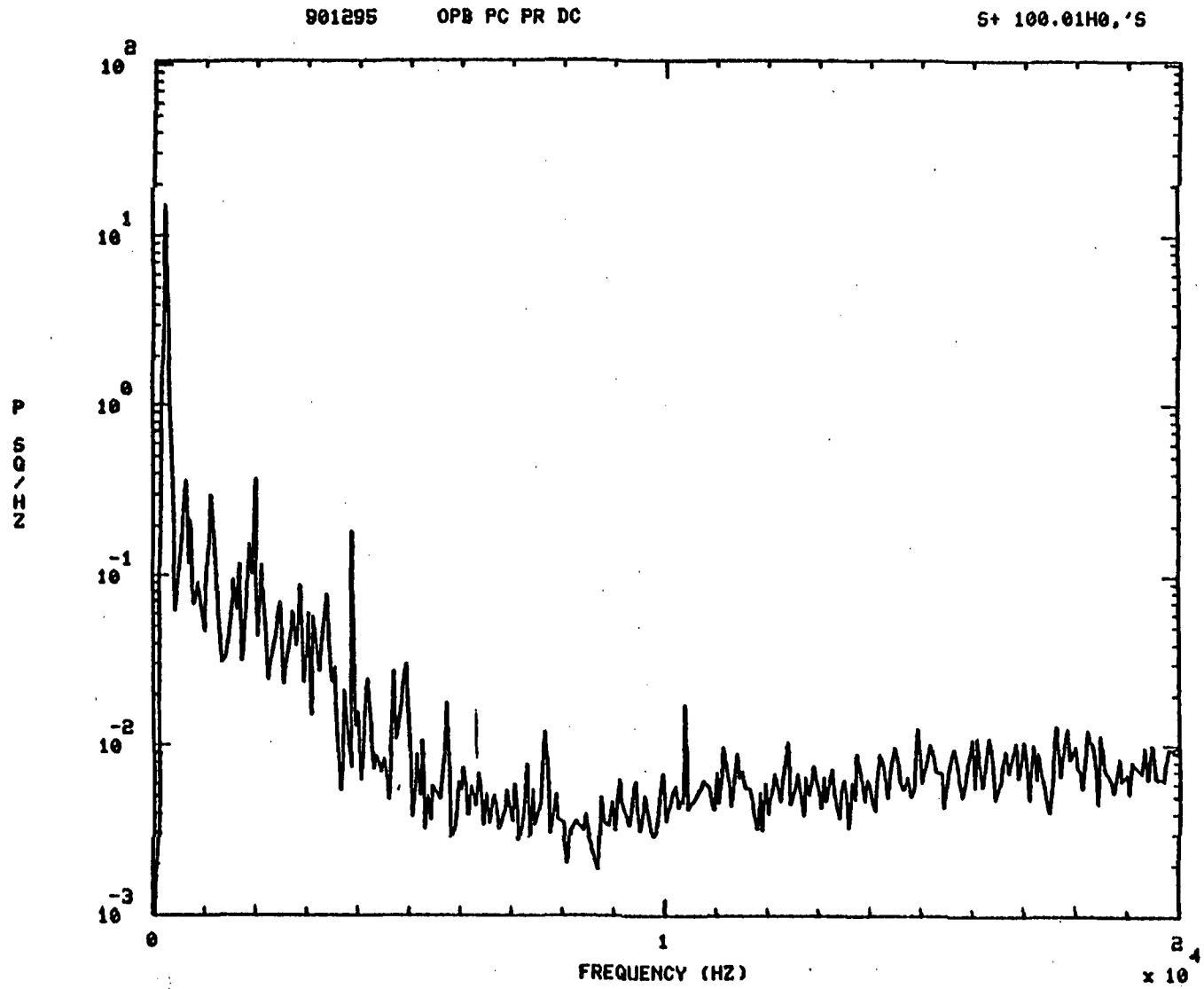
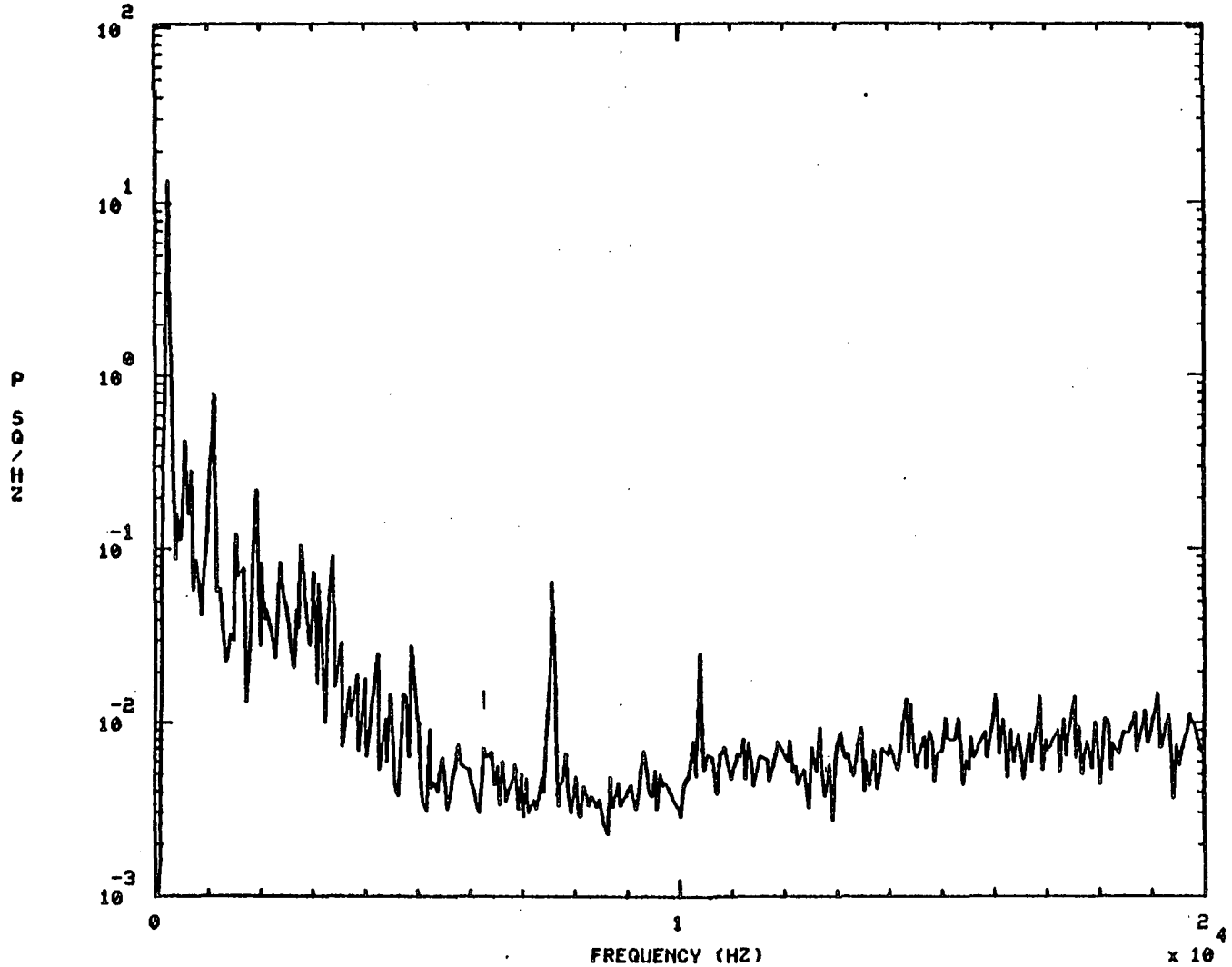
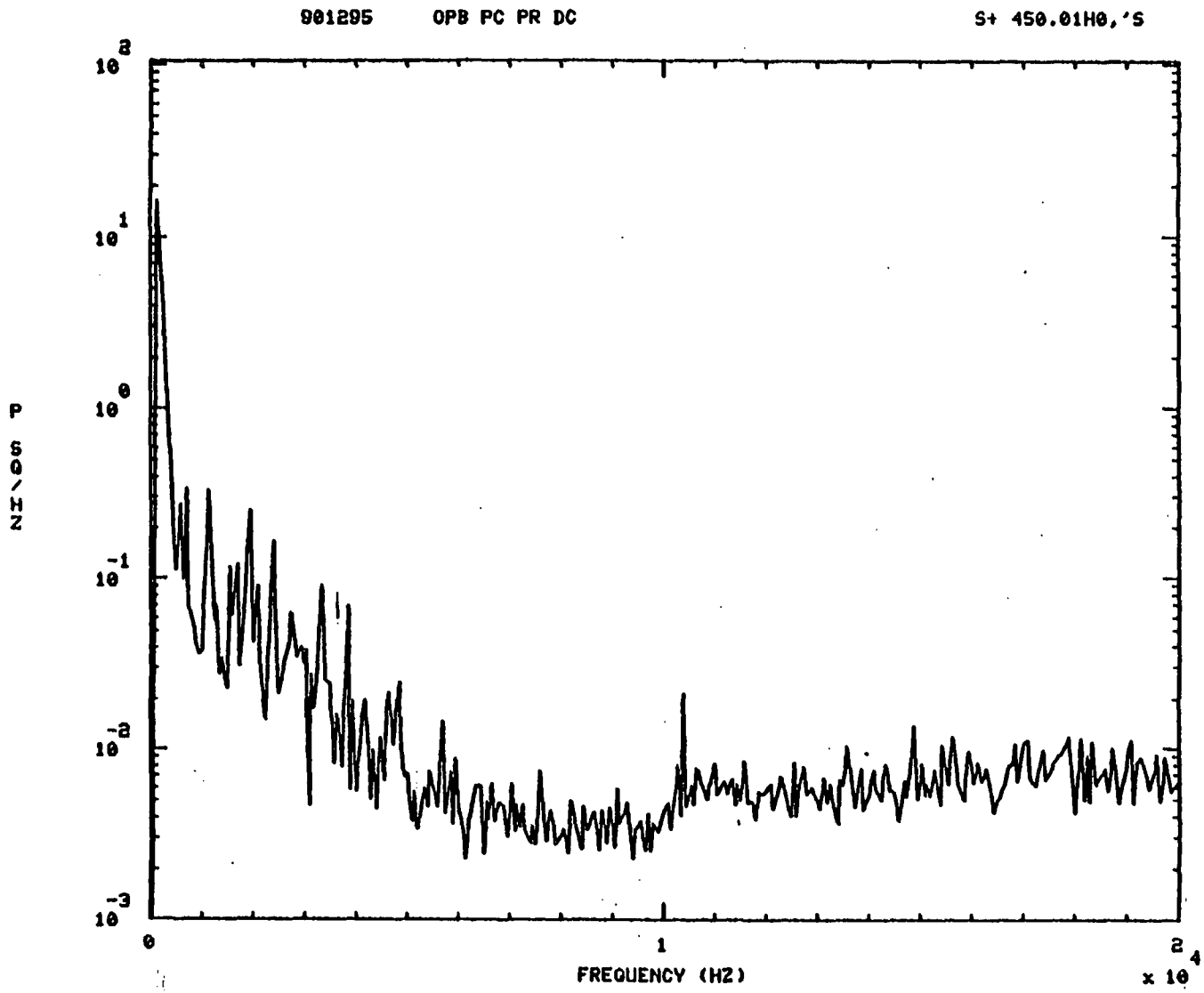
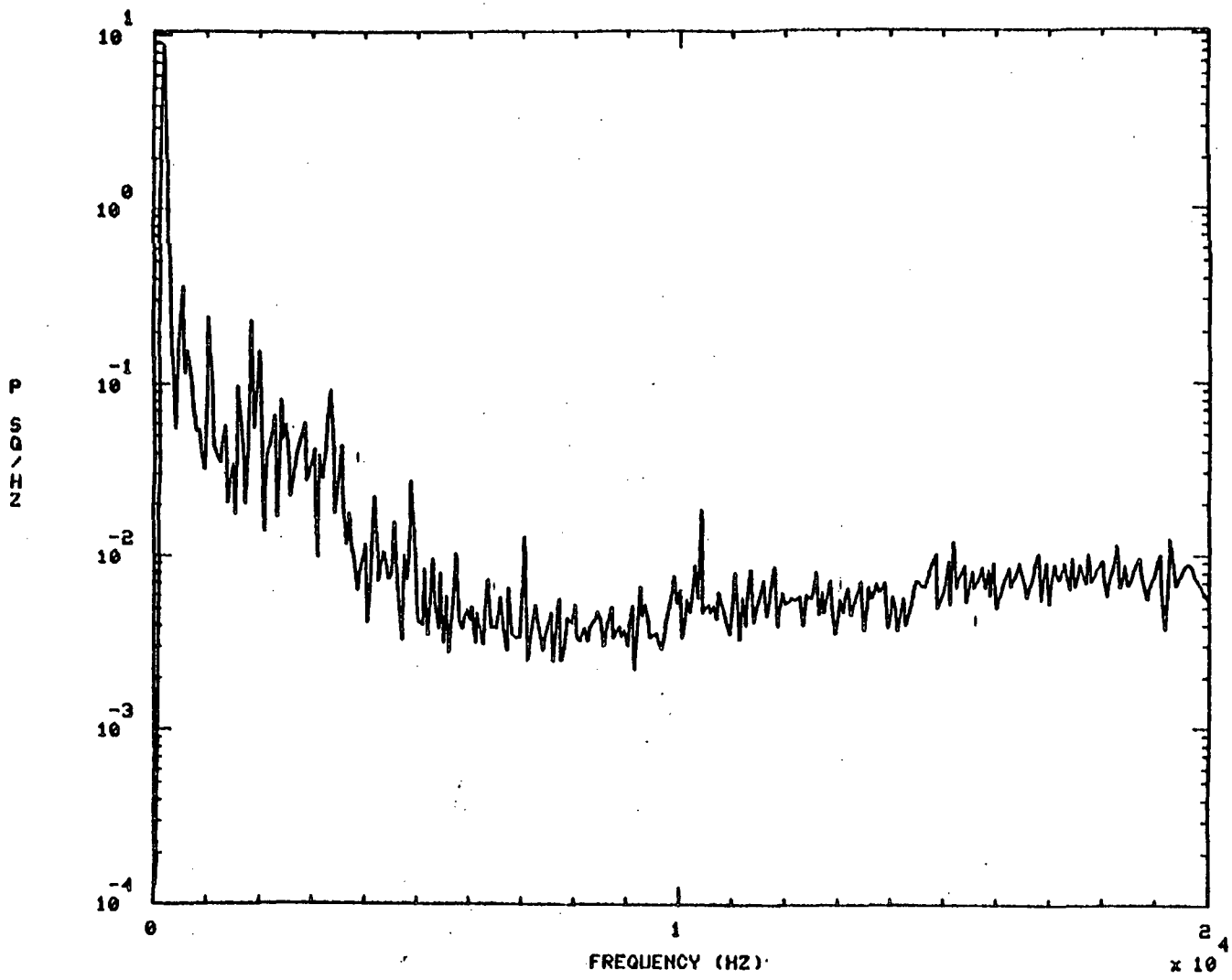
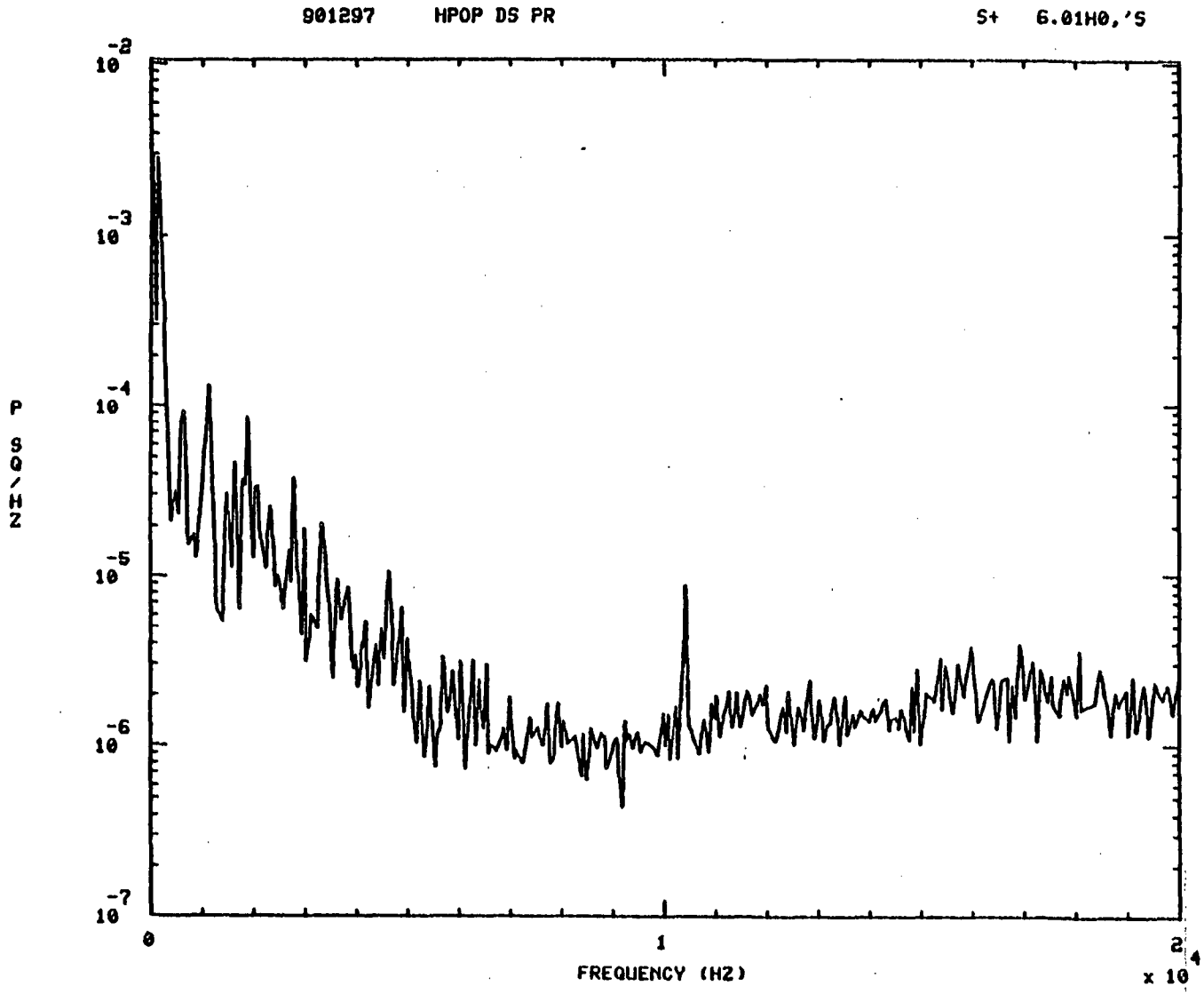
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
FREQUENCY (HZ)
x 10^4

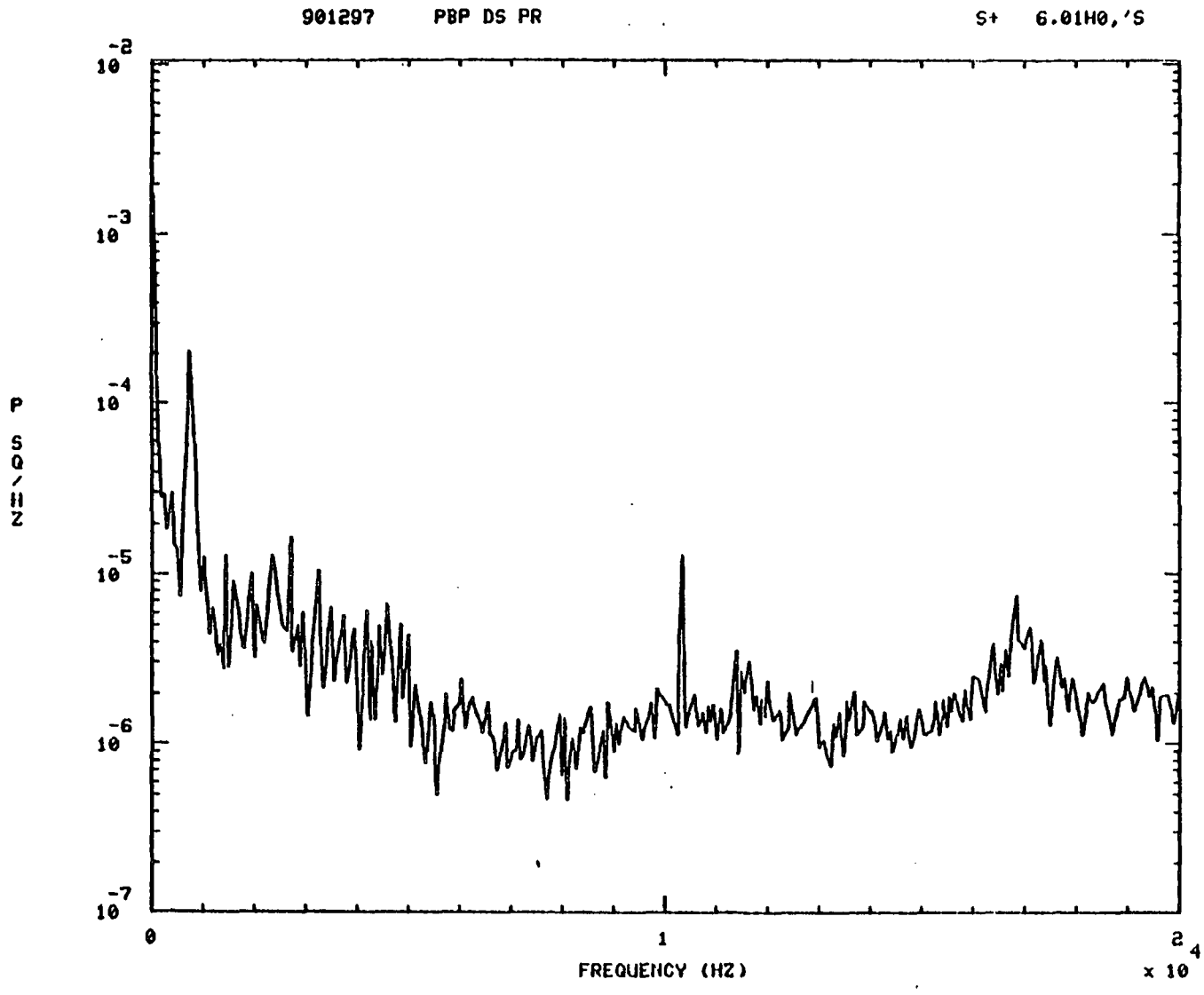

901295 OPB PC PR DC
S+ 100.01H0,'S
P SQ/HZ
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4

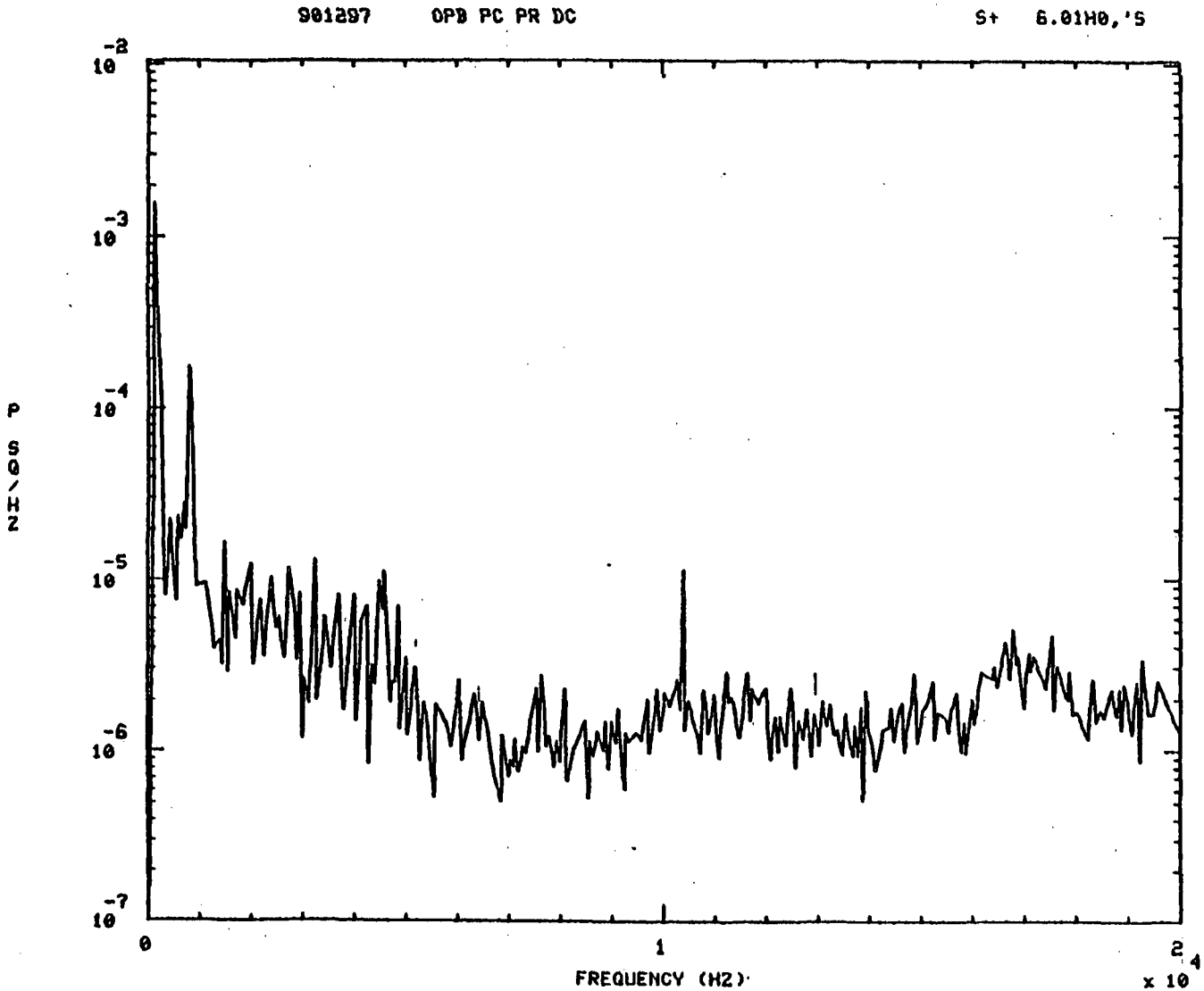

P
S
Q
/
H
Z
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4


901295 OPB PC PR DC
S+ 450.01H0,'S
P SQ/HZ
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4


901295 OPB PC PR DC
S+ 500.01H0,'S
P SQ\HZ
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
4
x 10
FREQUENCY (HZ)


901297 HPOP DS PR
S+ 6.01H0,'S
P S Q / H Z
10^-2
10^-3
10^-4
10^-5
10^-6
10^-7
0
1
2
FREQUENCY (HZ)
x 10^4


901297 PBP DS PR
S+ 6.01H0,'S
P S Q / H Z
10^-2
10^-3
10^-4
10^-5
10^-6
10^-7
0
1
2
FREQUENCY (HZ)
x 10^4


901297 OPB PC PR DC
S+ 6.01H0,'S
P S Q/H Z
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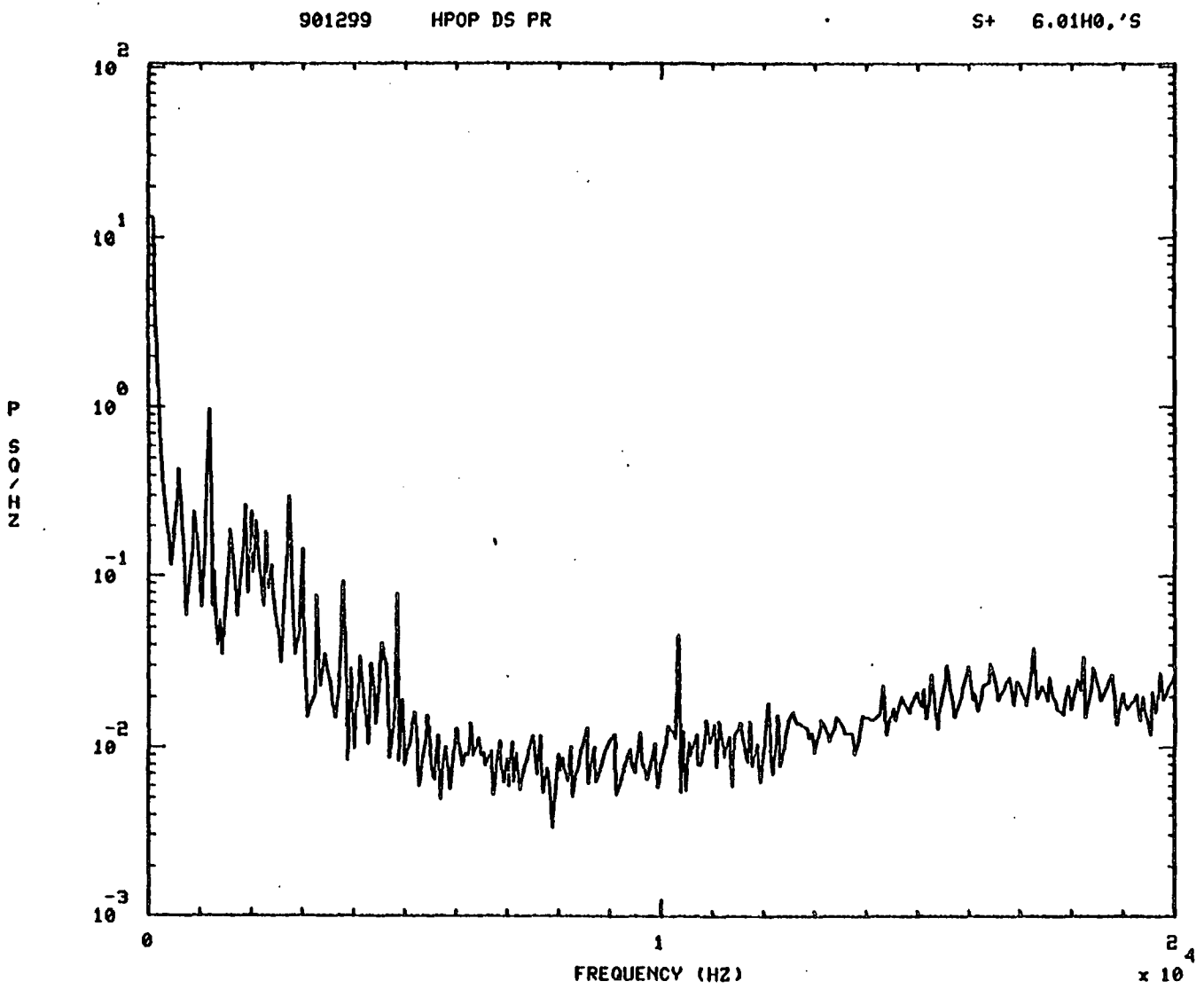
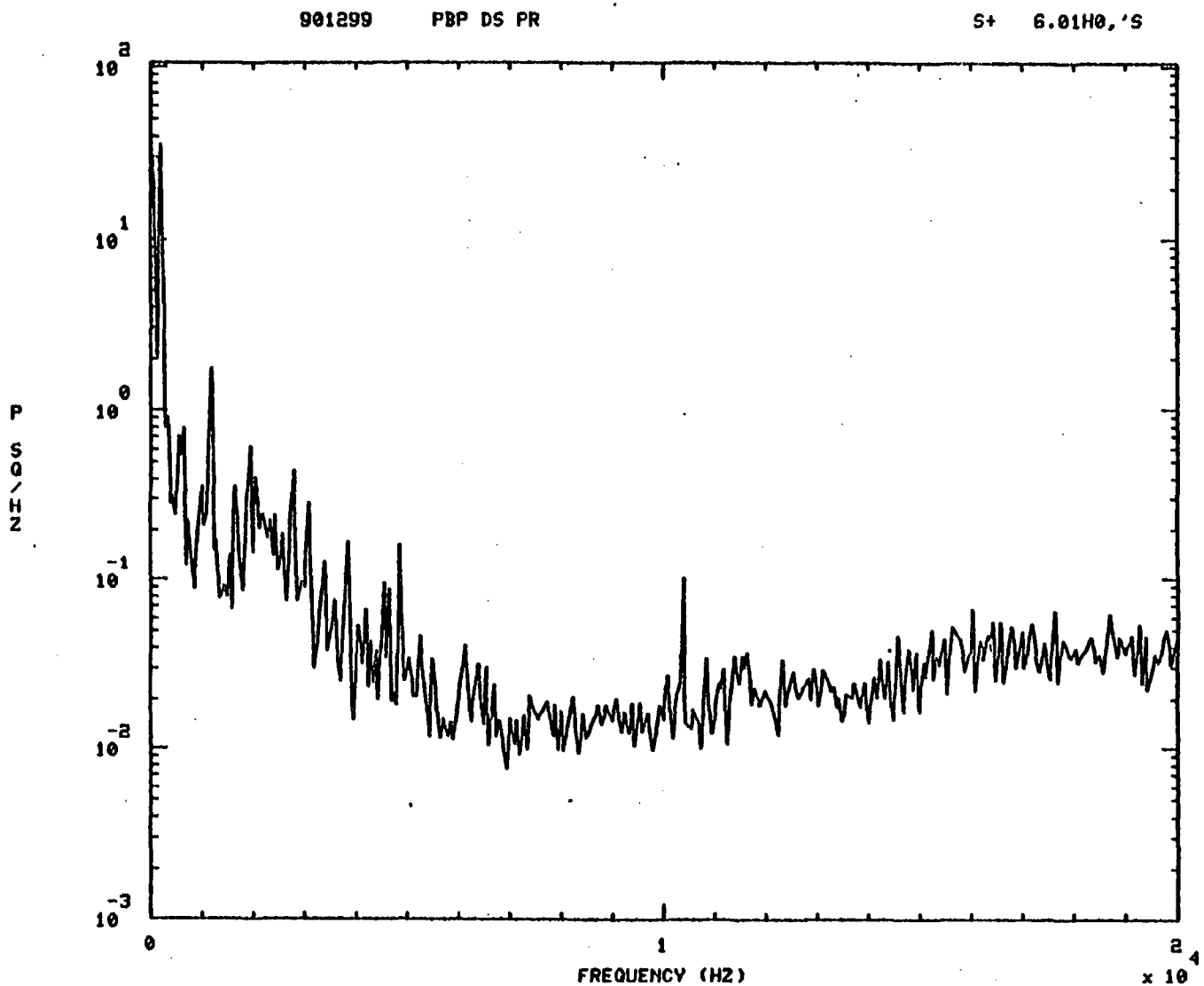
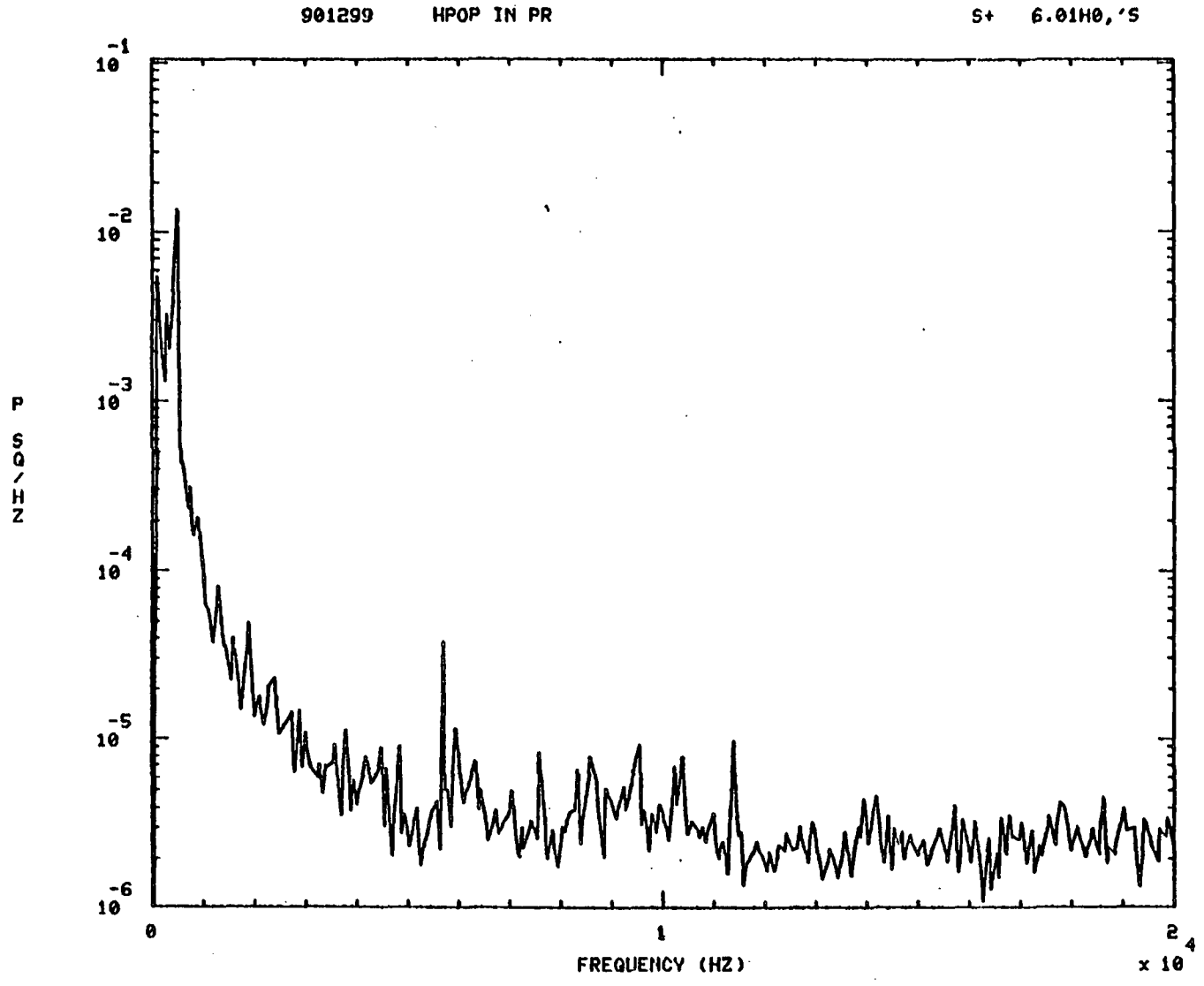
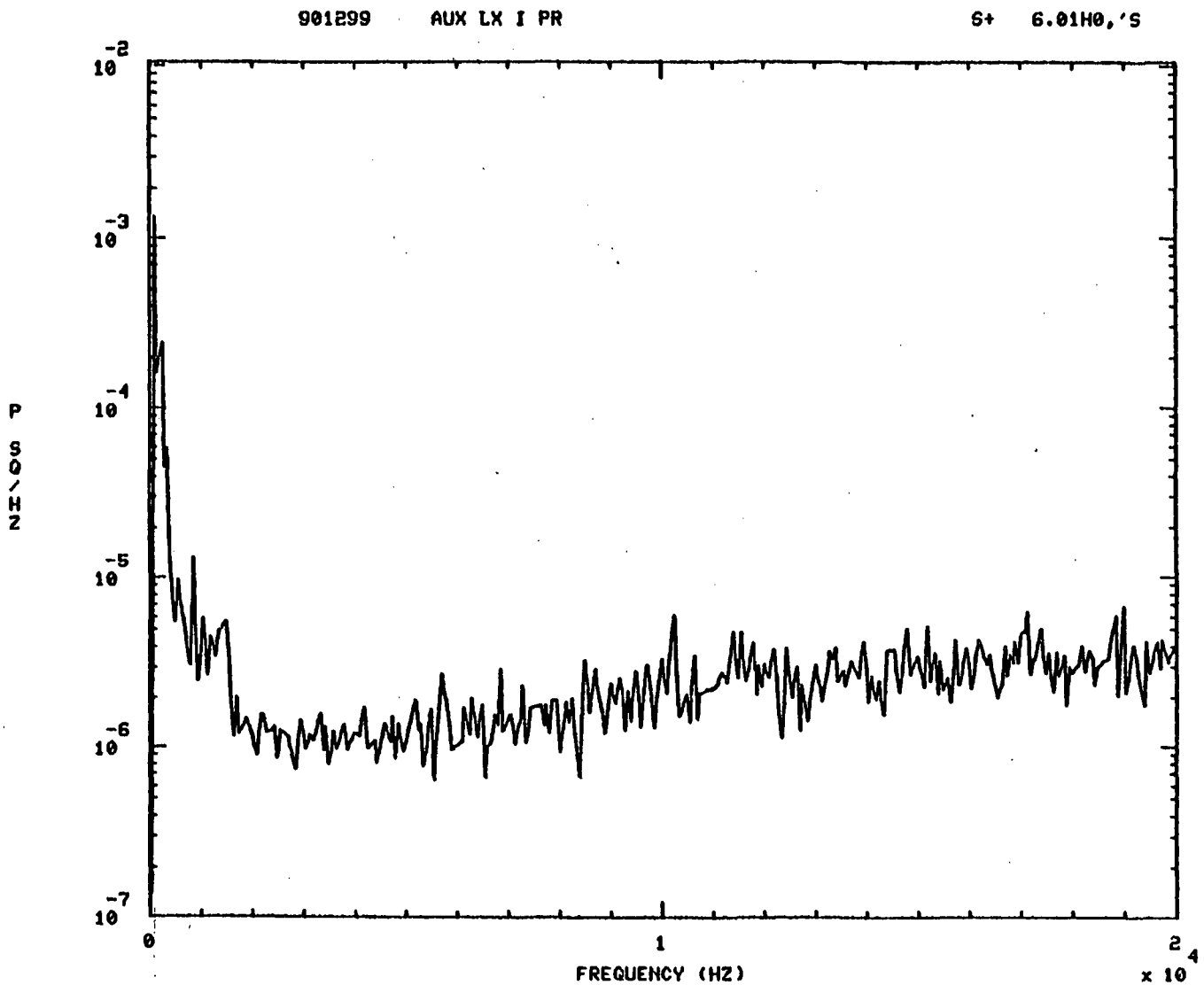
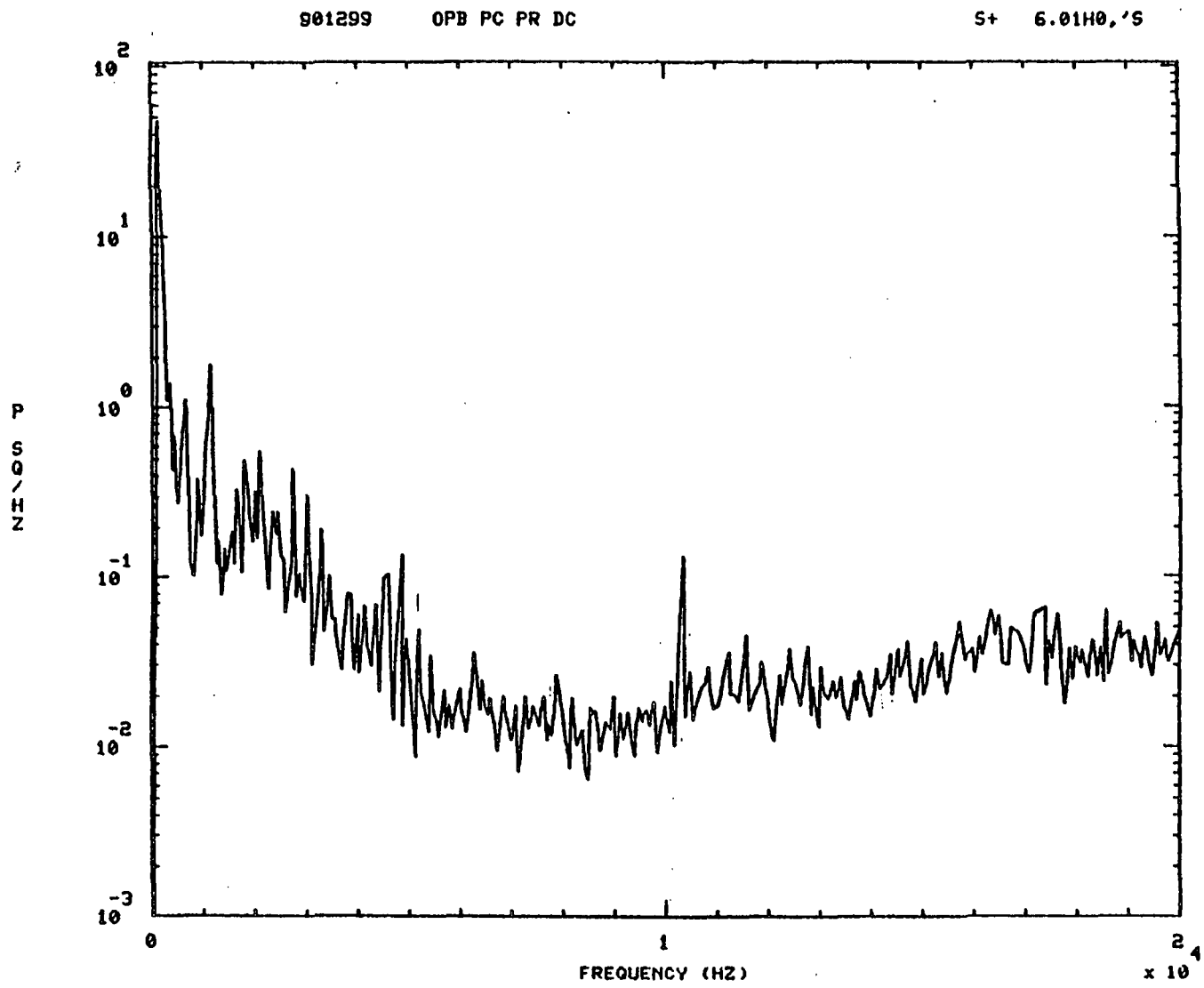
10^-3
10^-4
10^-5
10^-6
10^-7
0
1
2
FREQUENCY (H2)
x 10^4


901299 HPOP DS PR S+ 6.01H0,'S
P SQ\HZ
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4


901299 PBP DS PR
S+ 6.01H0,'S
P S Q \ H Z
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4


901299 HPOP IN PR
S+ 6.01H0,'S
P SQ\HZ
10^-1
10^-2
10^-3
10^-4
10^-5
10^-6
0
1
2
FREQUENCY (HZ)
x 10^4


901299 AUX LX I PR
S+ 6.01H0,'S
P S/√HZ
10^-2
10^-3
10^-4
10^-5
10^-6
10^-7
0
1
2
FREQUENCY (HZ)
x 10^4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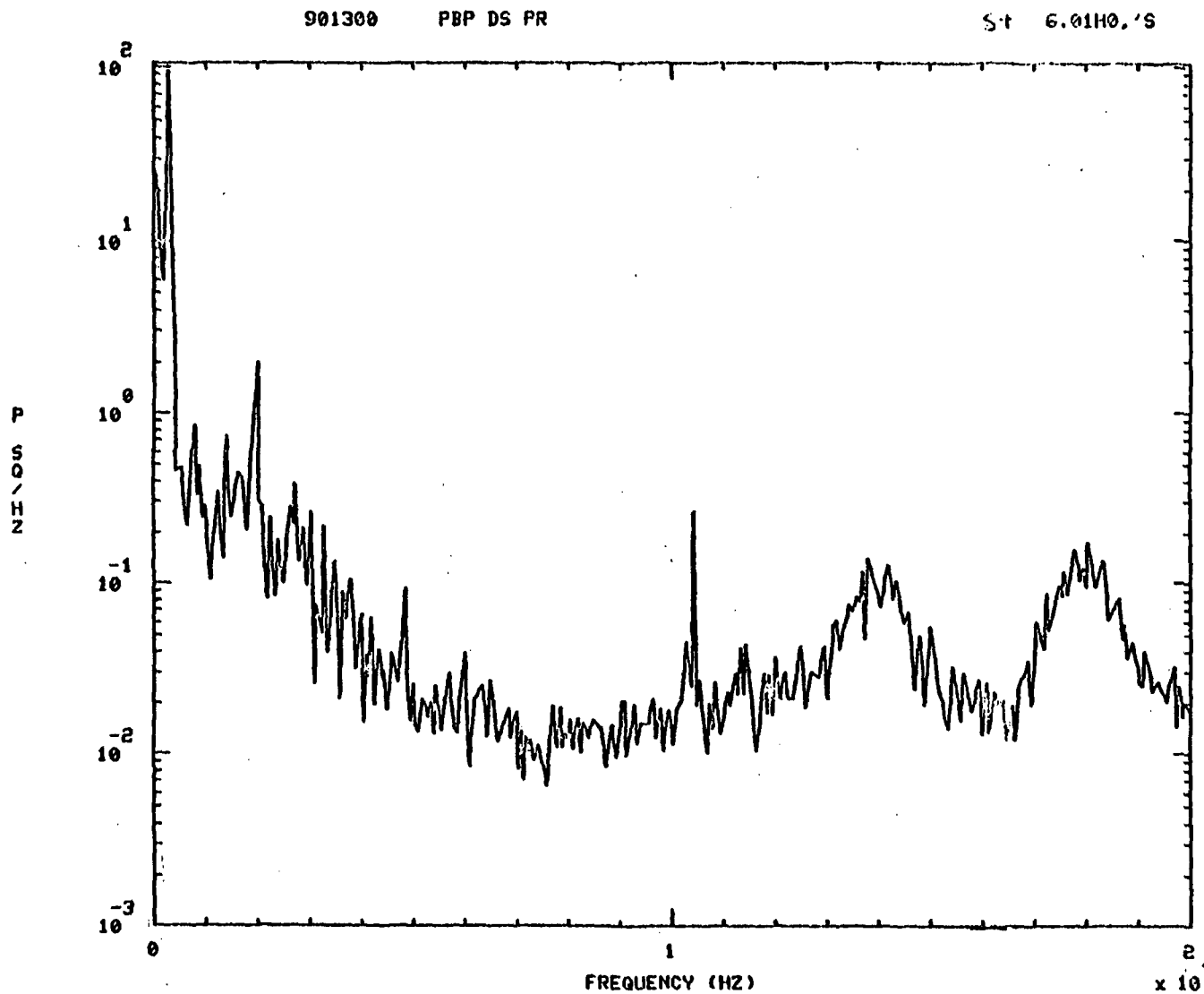
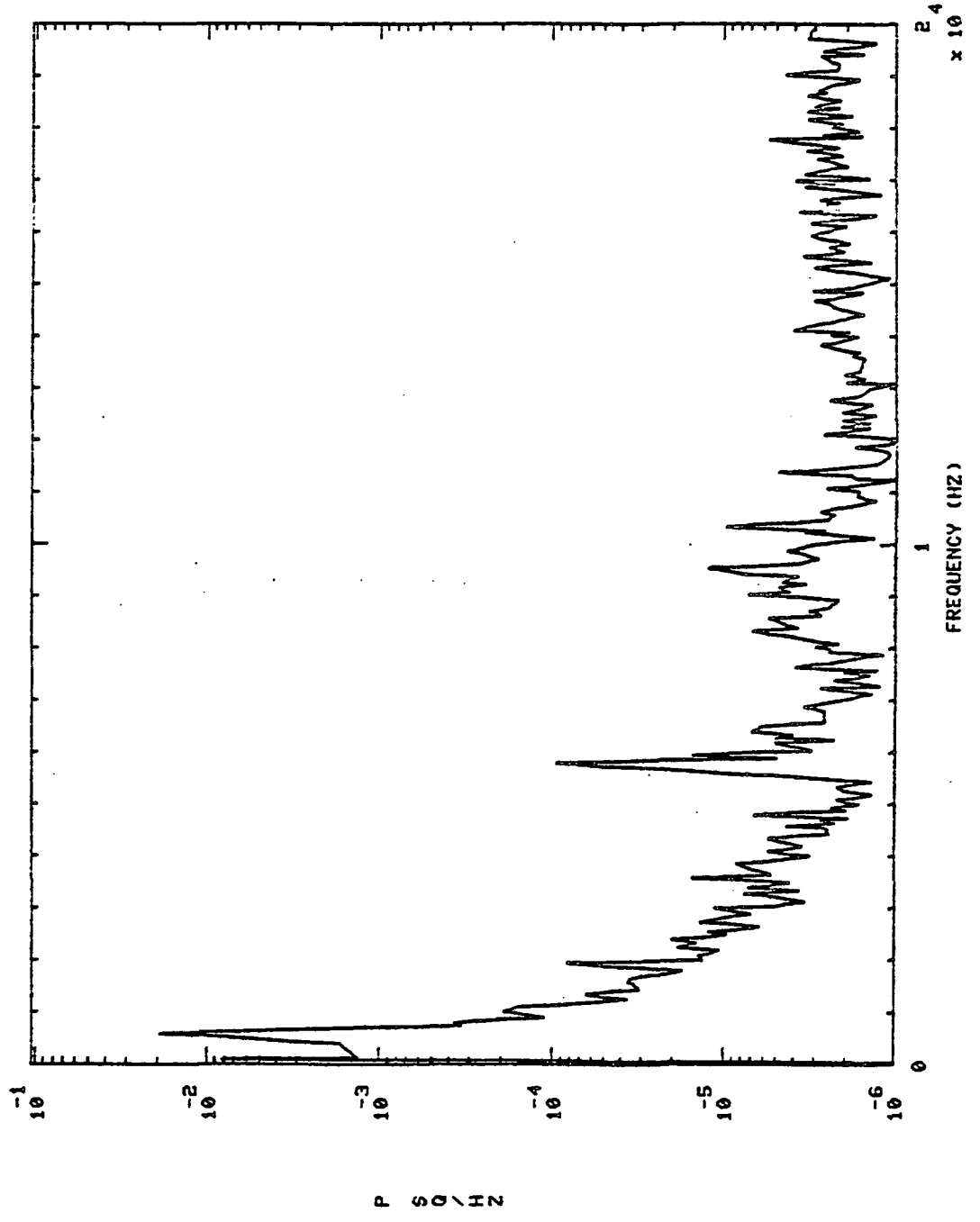
P S Q/H Z
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4


901300 PBP DS PR
S-t 6.01H0.'S
P SQ\HZ
10^{2}
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-3}
0
1
2
FREQUENCY (HZ)
x 10^{4}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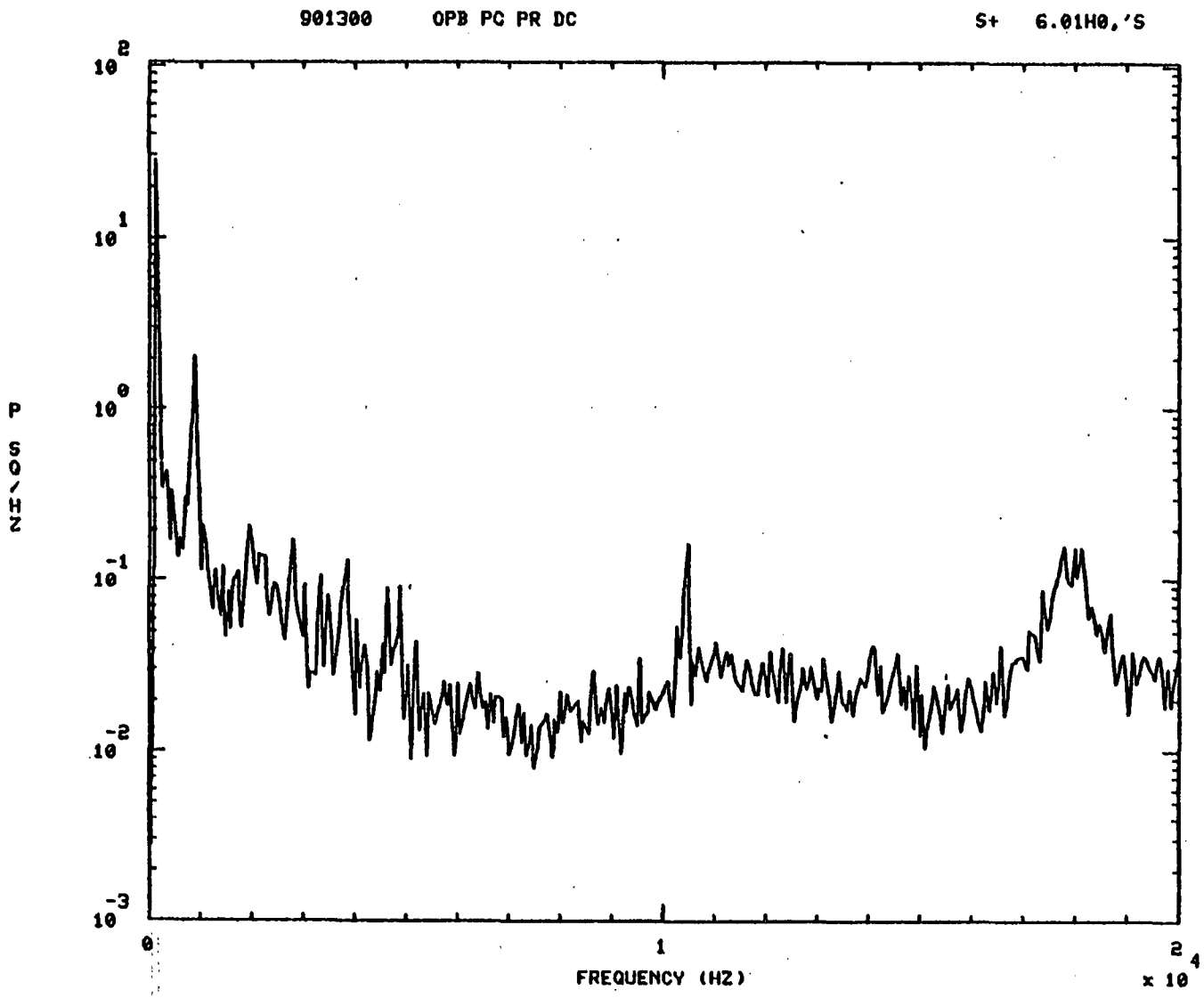
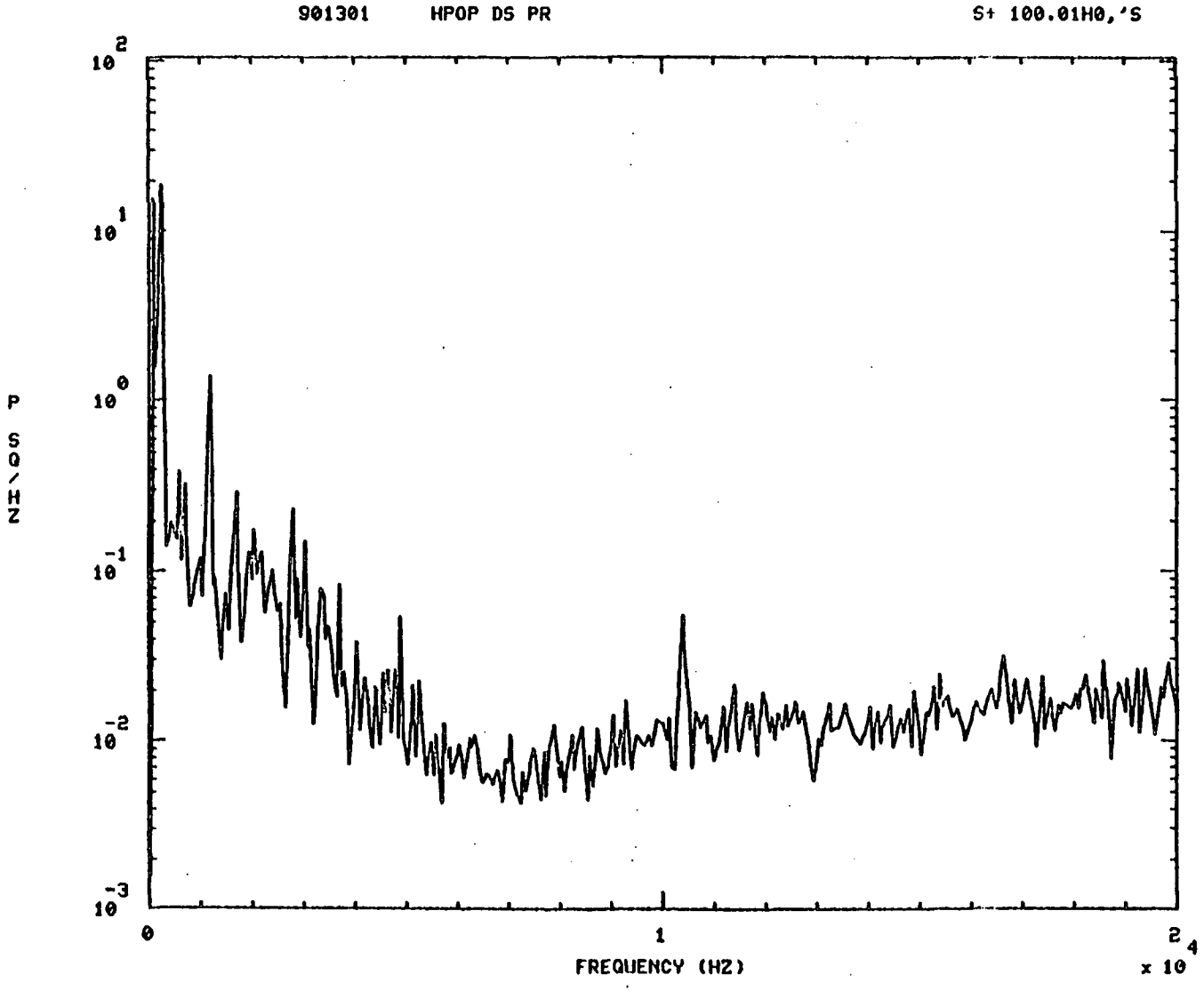
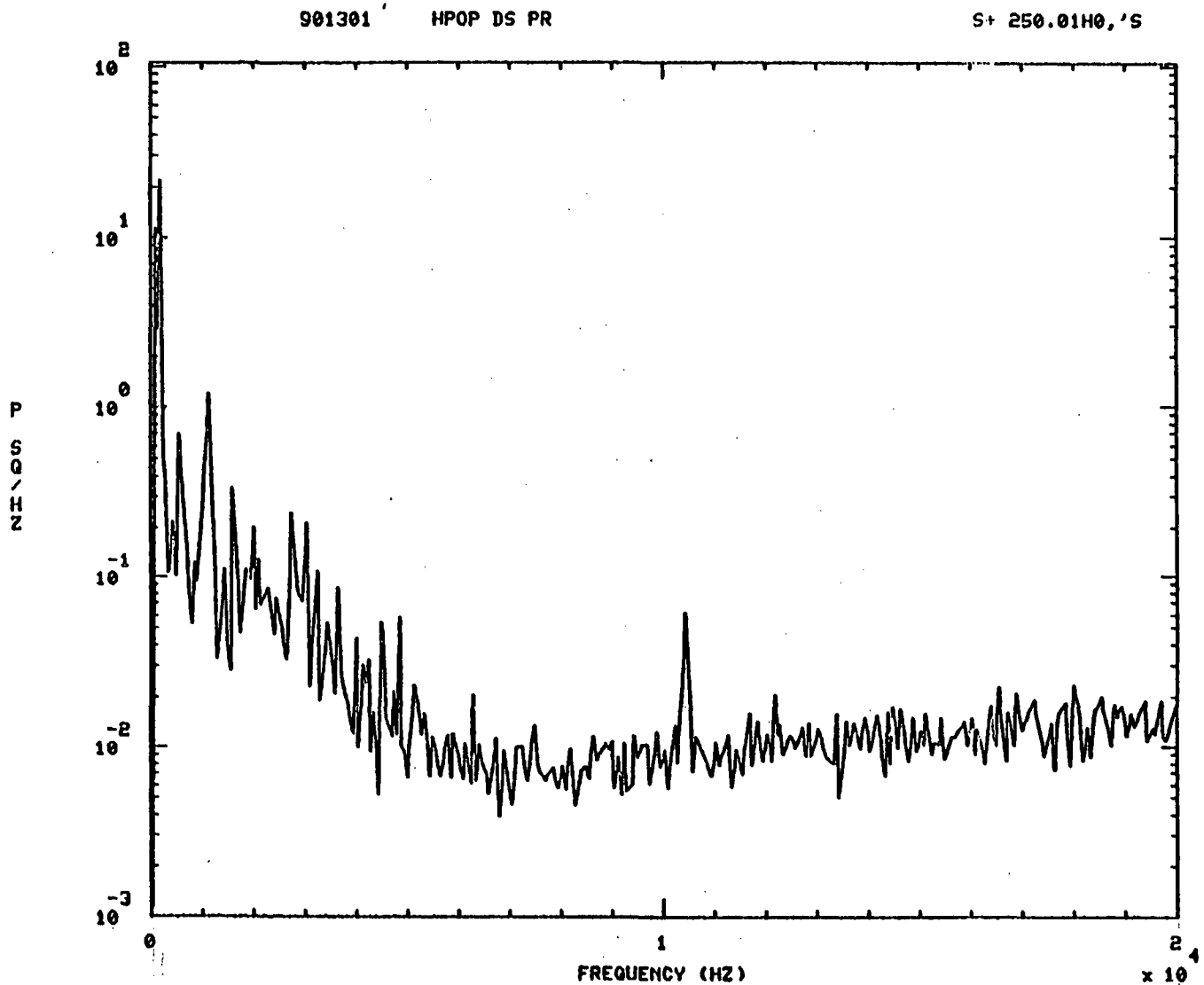
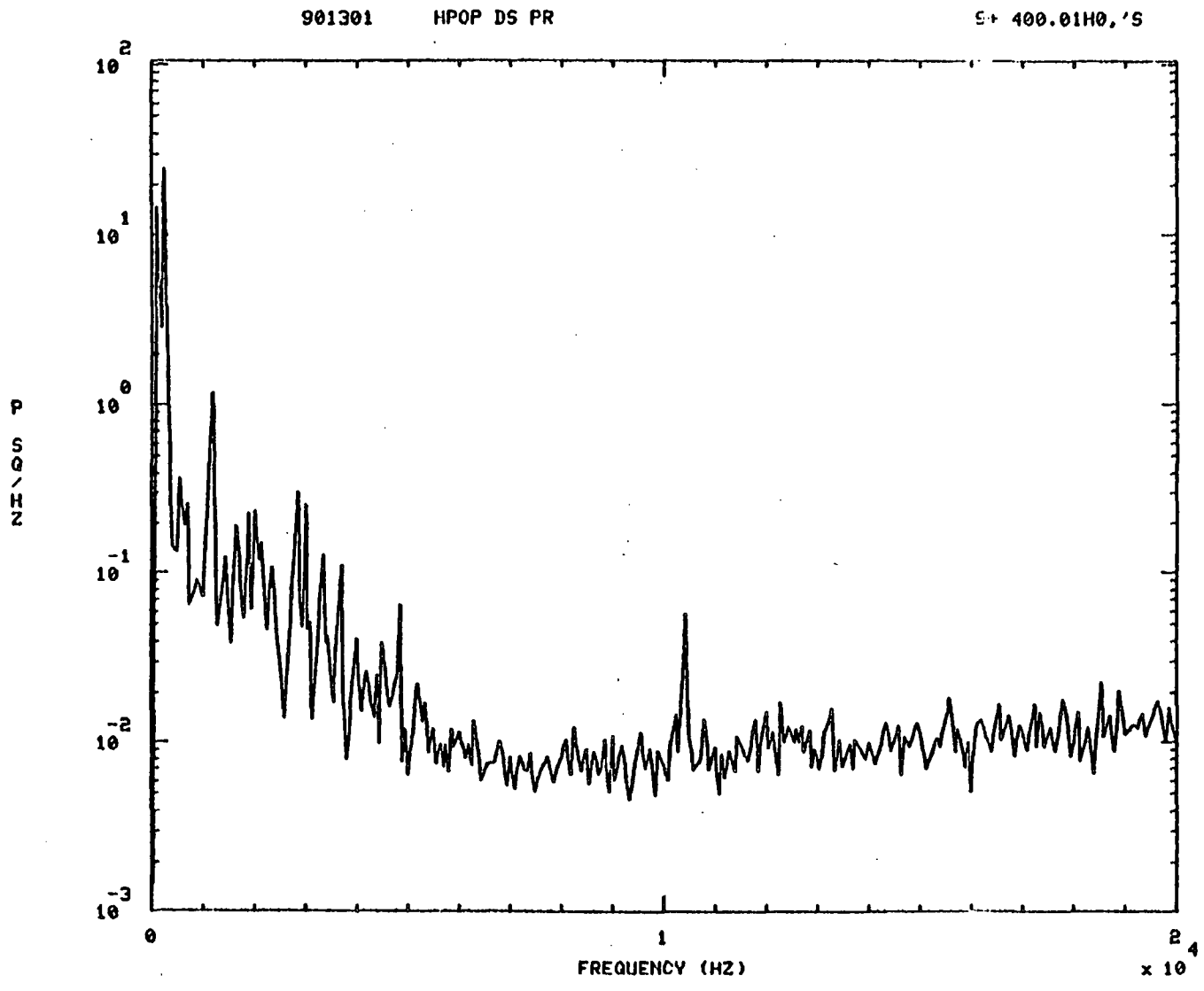
SI 6.01H0,'S
P SD\HZ
FREQUENCY (HZ)
x 10
0
1
2
4
-1
10
-2
10
-3
10
-4
10
-5
10
-6
10

C-2


901300 OPB PC PR DC
S+ 6.01H0,'S
P SQ/HZ
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4


901301 HPOP DS PR
S+ 100.01H0,'S
P S Q \ H Z
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4


901301
HPOP DS PR
S+ 250.01H0,'S
P SQ/HZ
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4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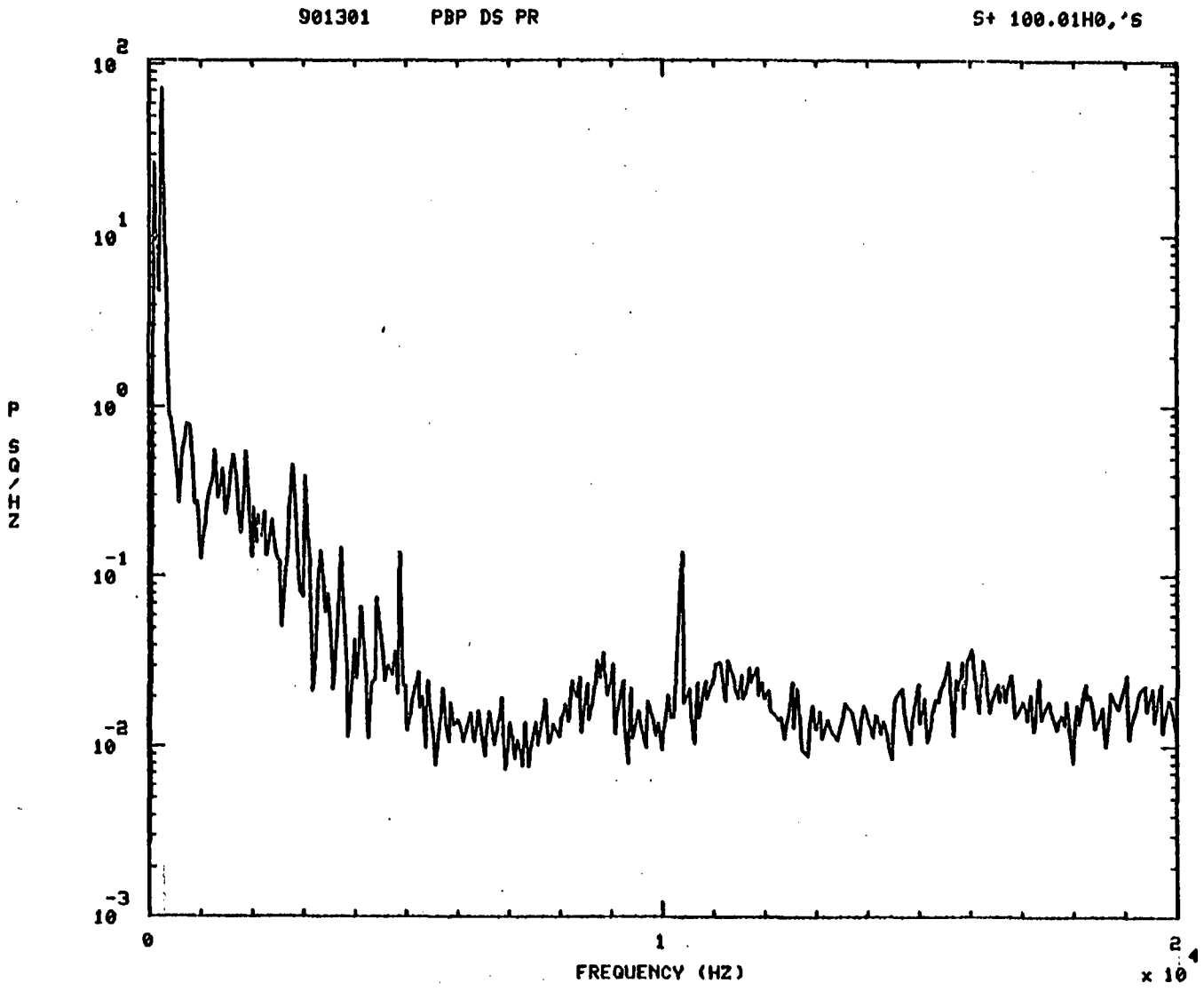
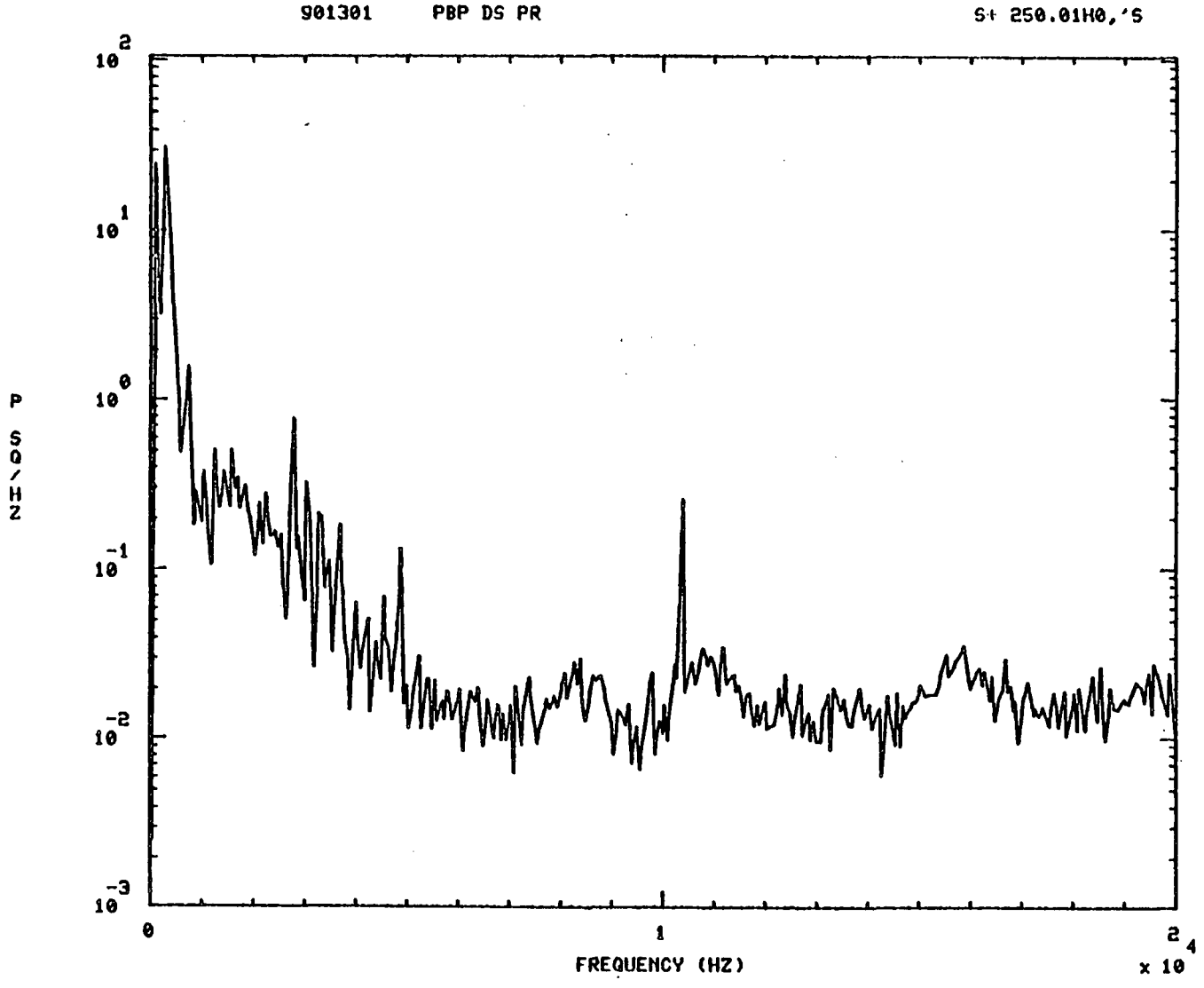
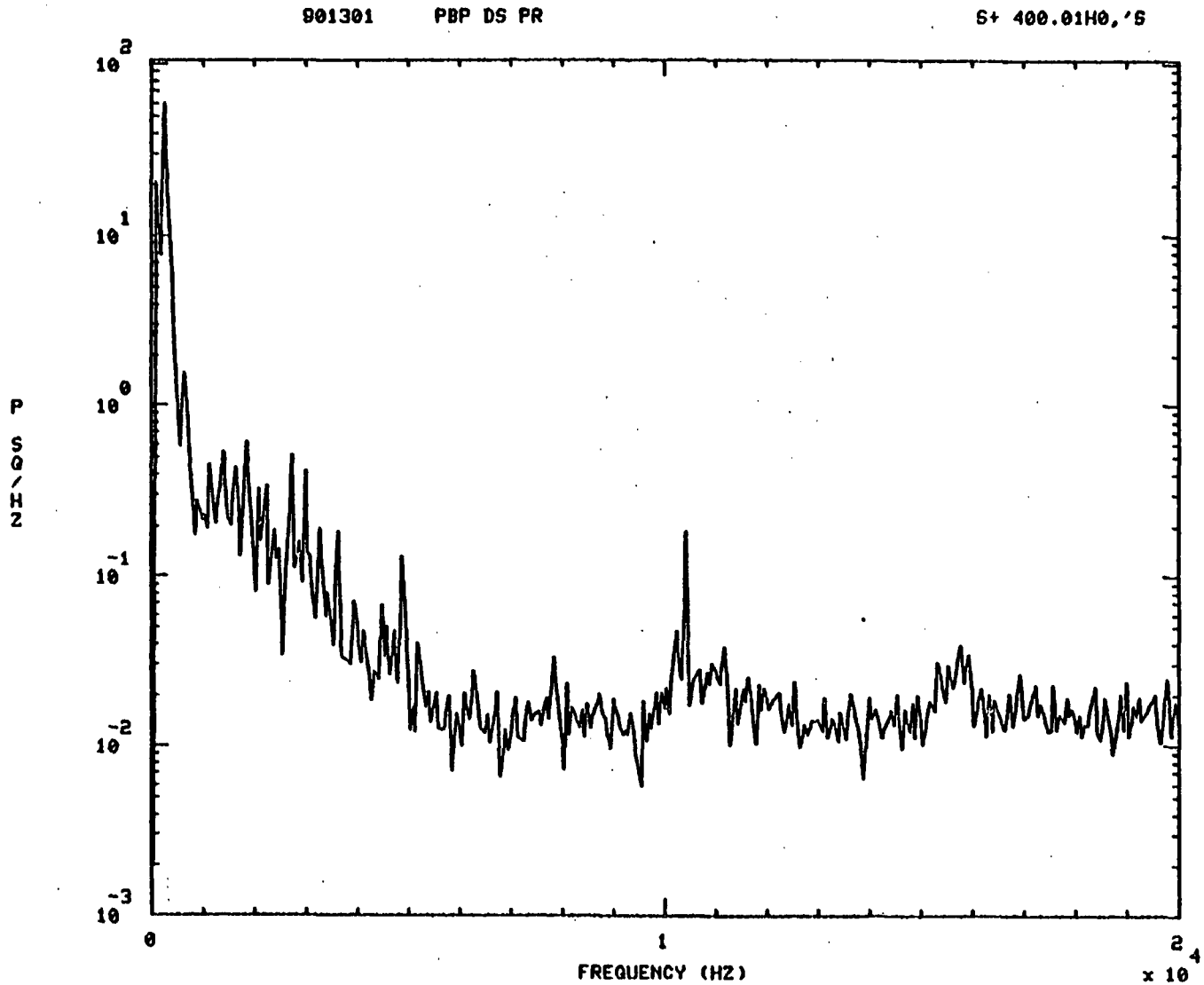
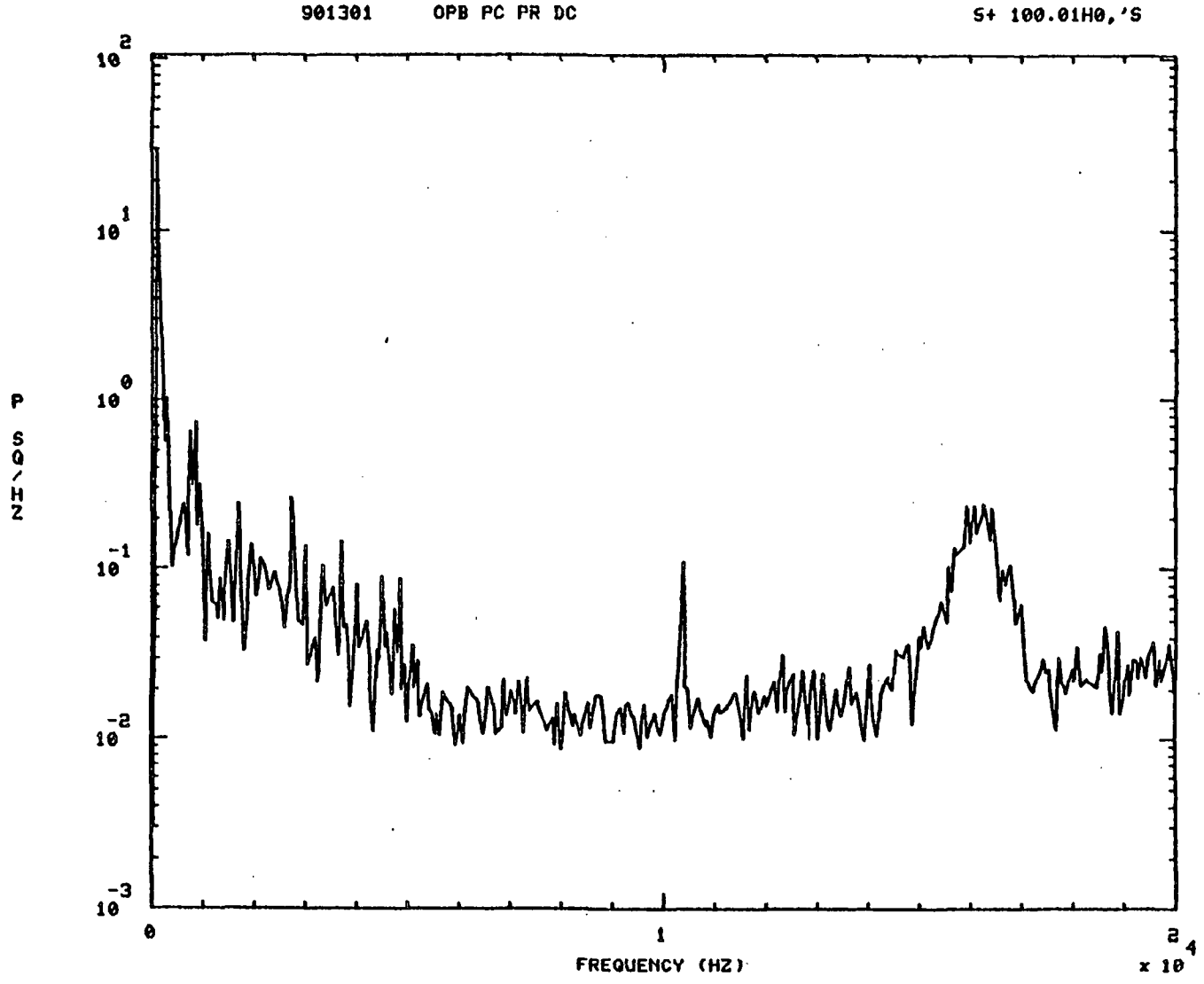
S+ 400.01H0,'S
P SQ\HZ
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4


901301 PBP DS PR
S+ 100.01H0,'S
P S Q \ H Z
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
x 10^4
FREQUENCY (HZ)


901301 PBP DS PR
S+ 250.01H0,'S
P SQ\HZ
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4


901301 PBP DS PR
S+ 400.01H0,'S
10^2
10^1
10^0
10^-1
10^-2
10^-3
P S Q \ H Z
0
1
2
FREQUENCY (HZ)
x 10^4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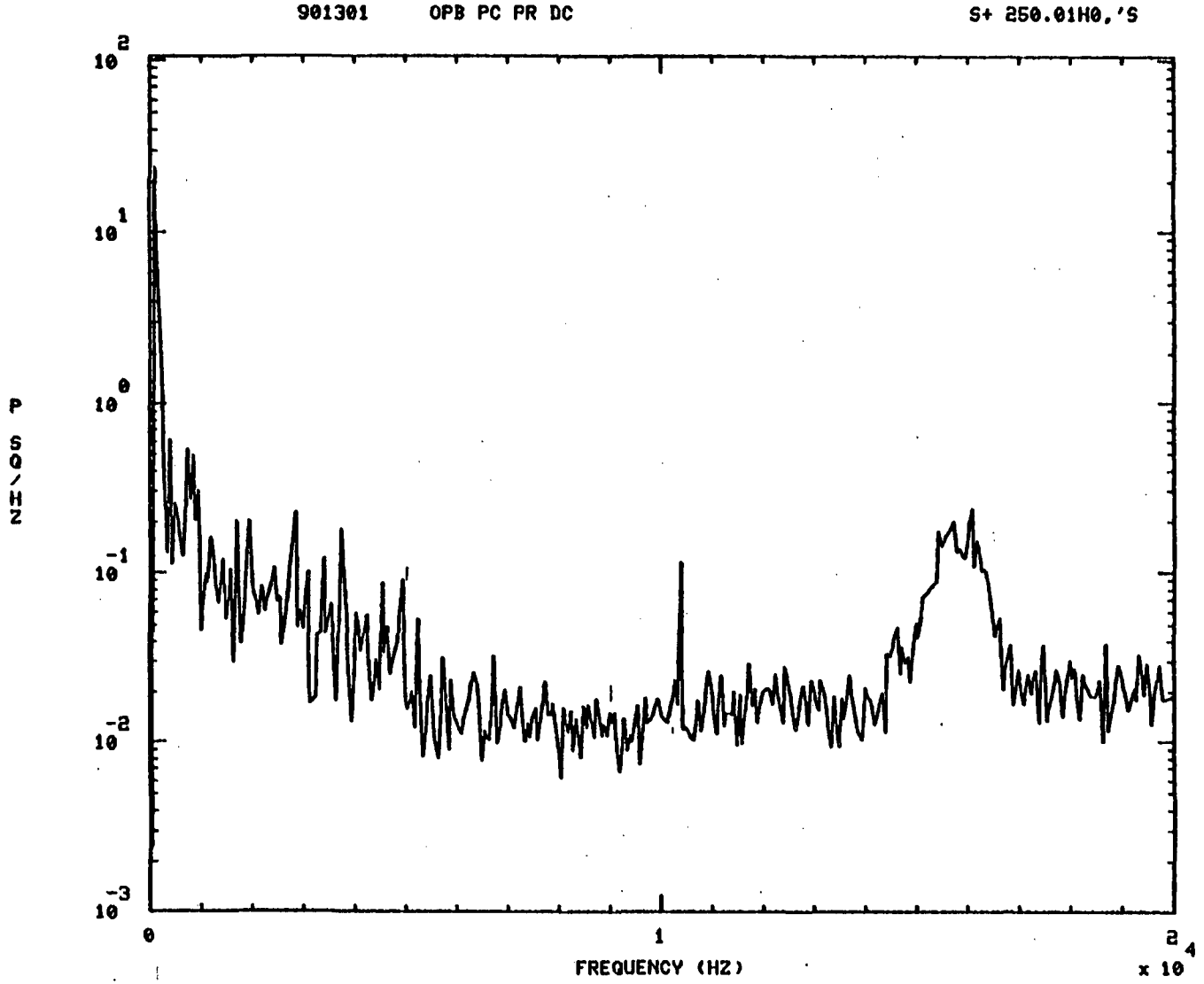
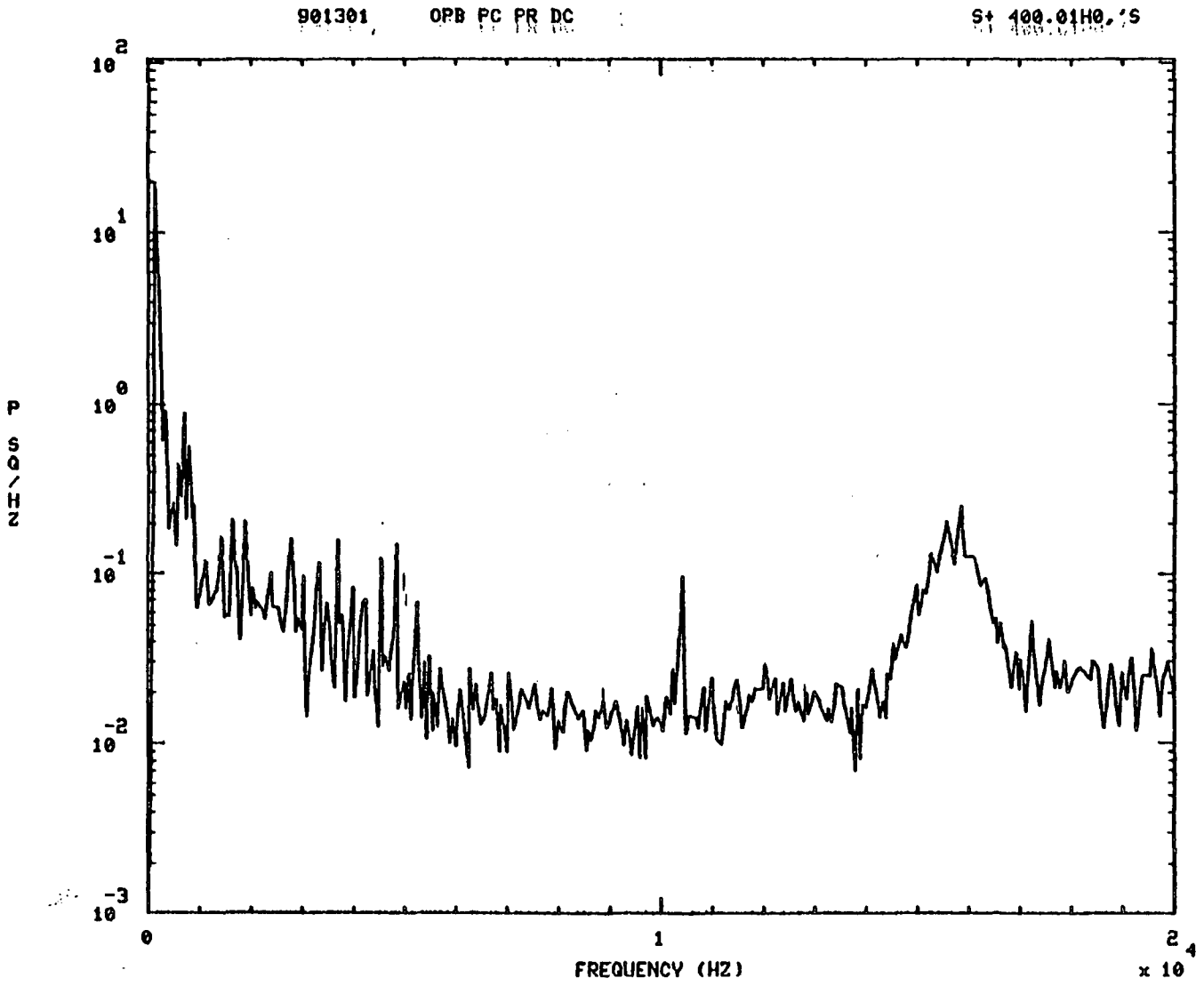
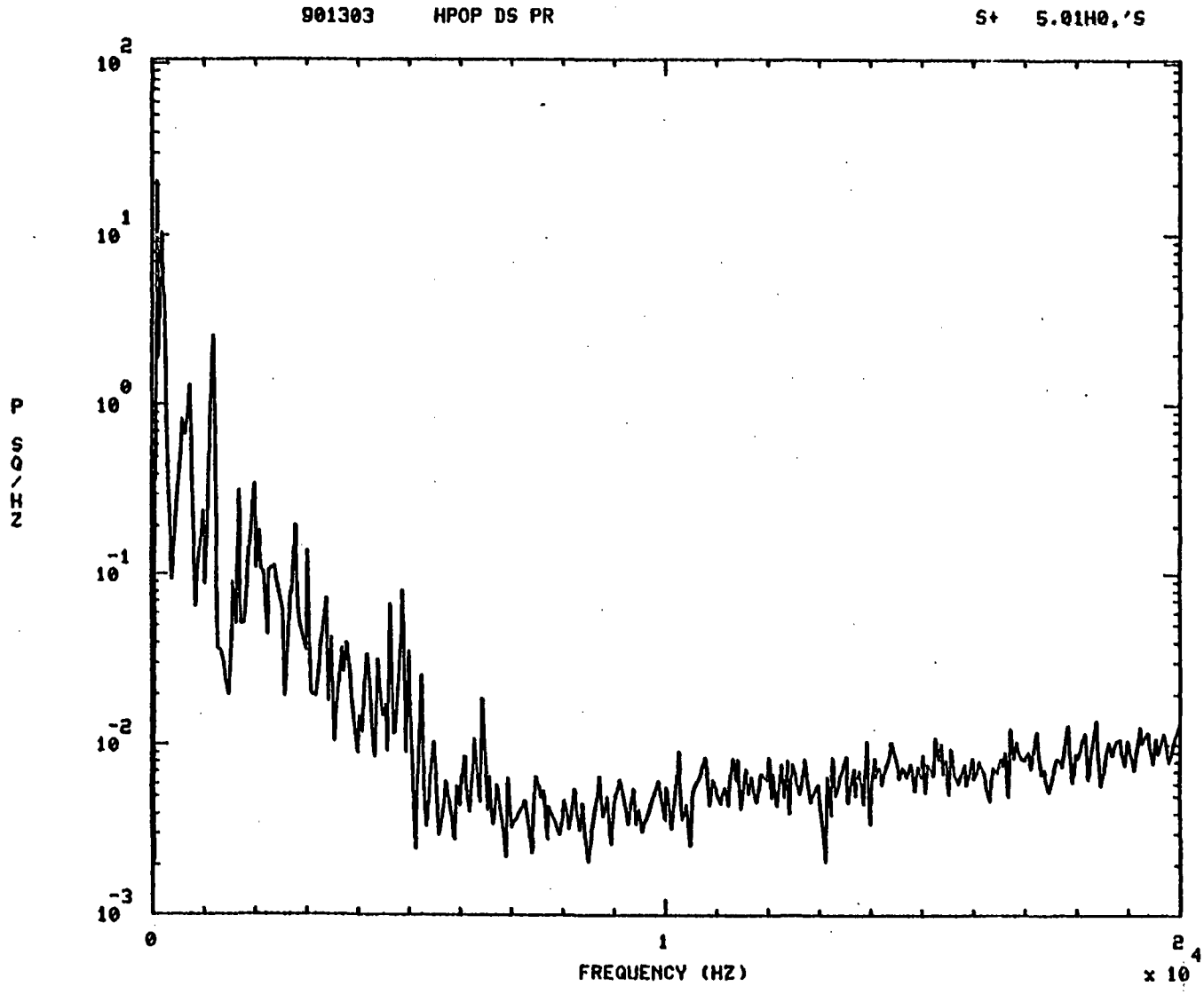
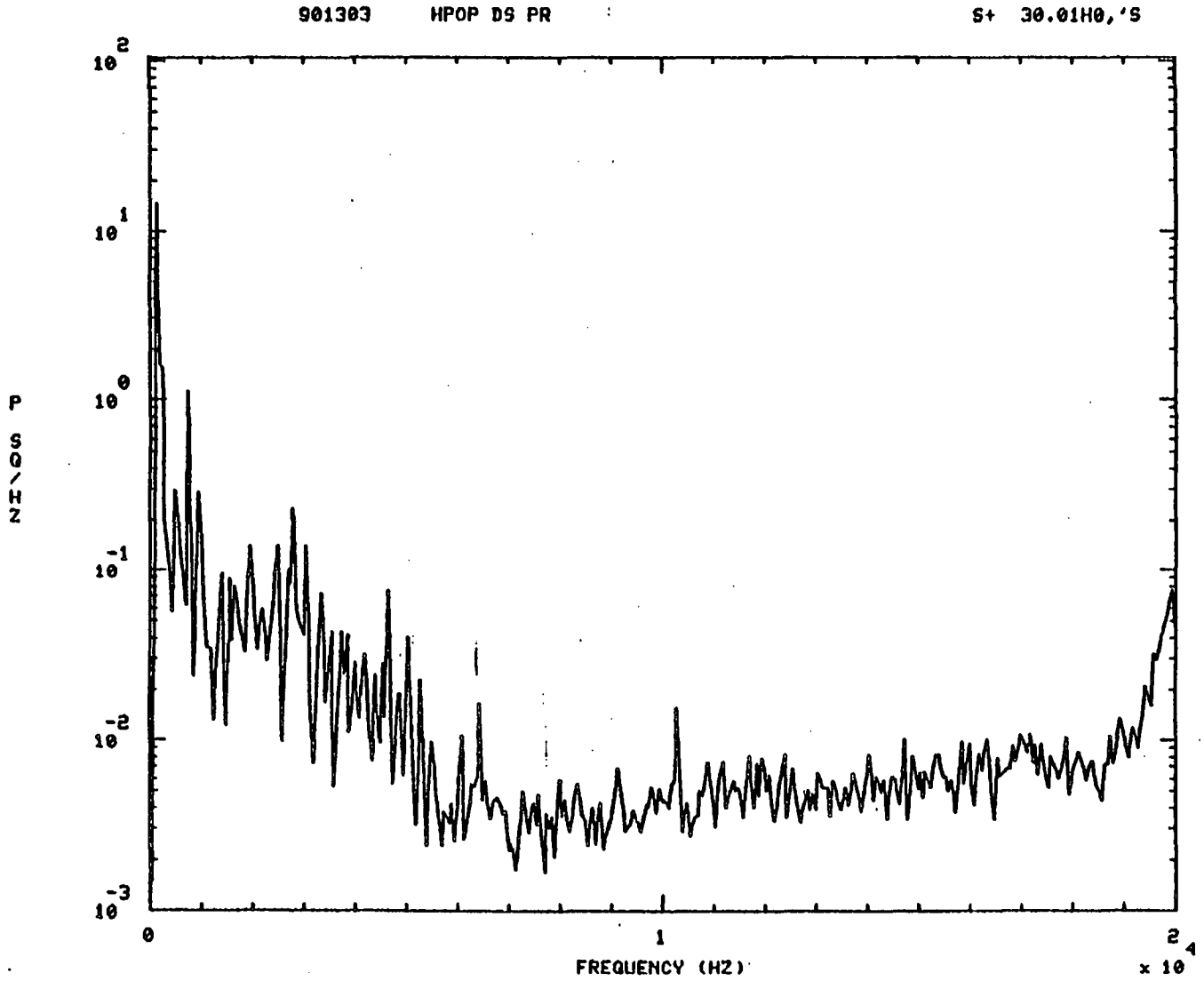
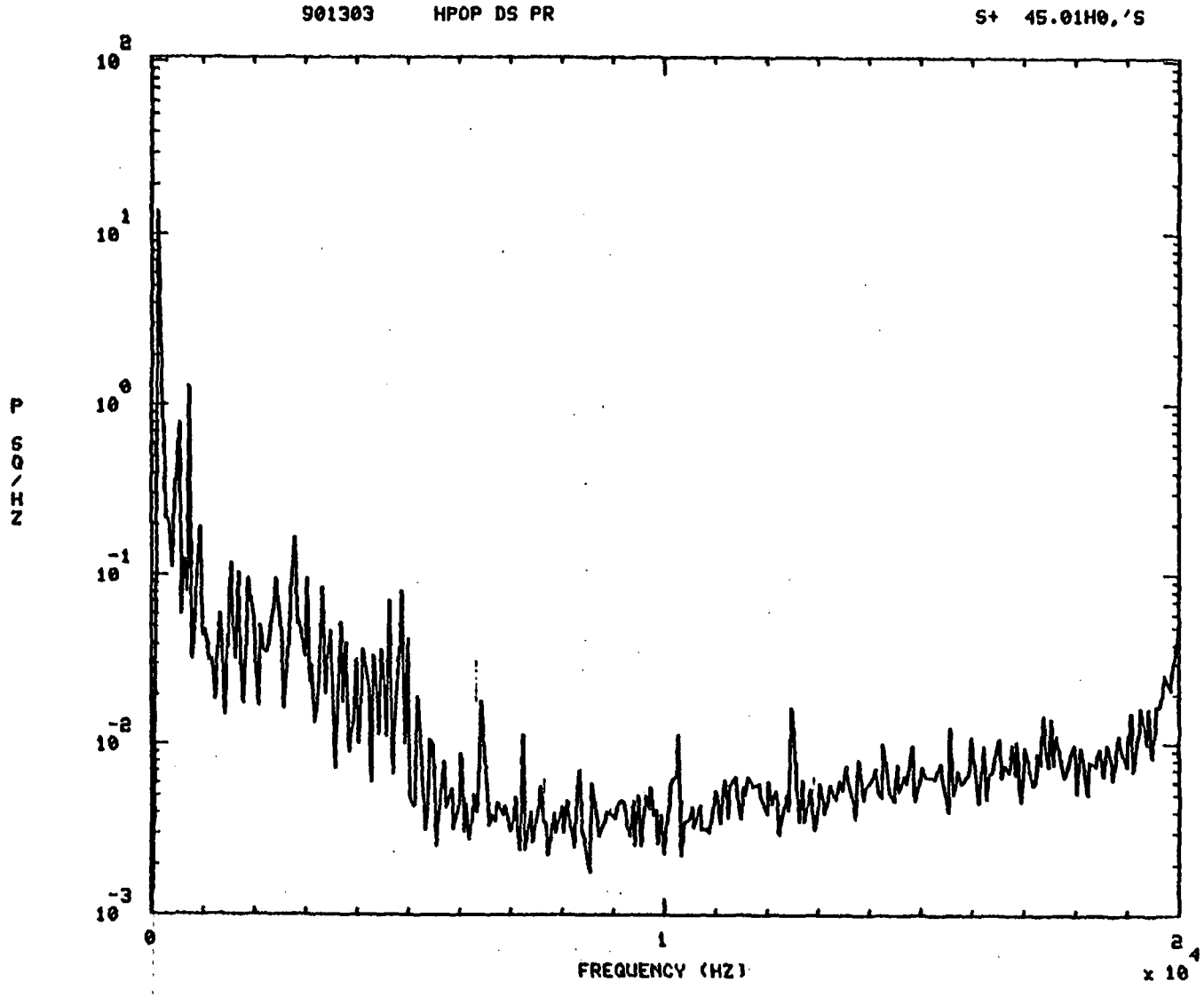
S+ 100.01H0,'S
P S Q / H Z
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4

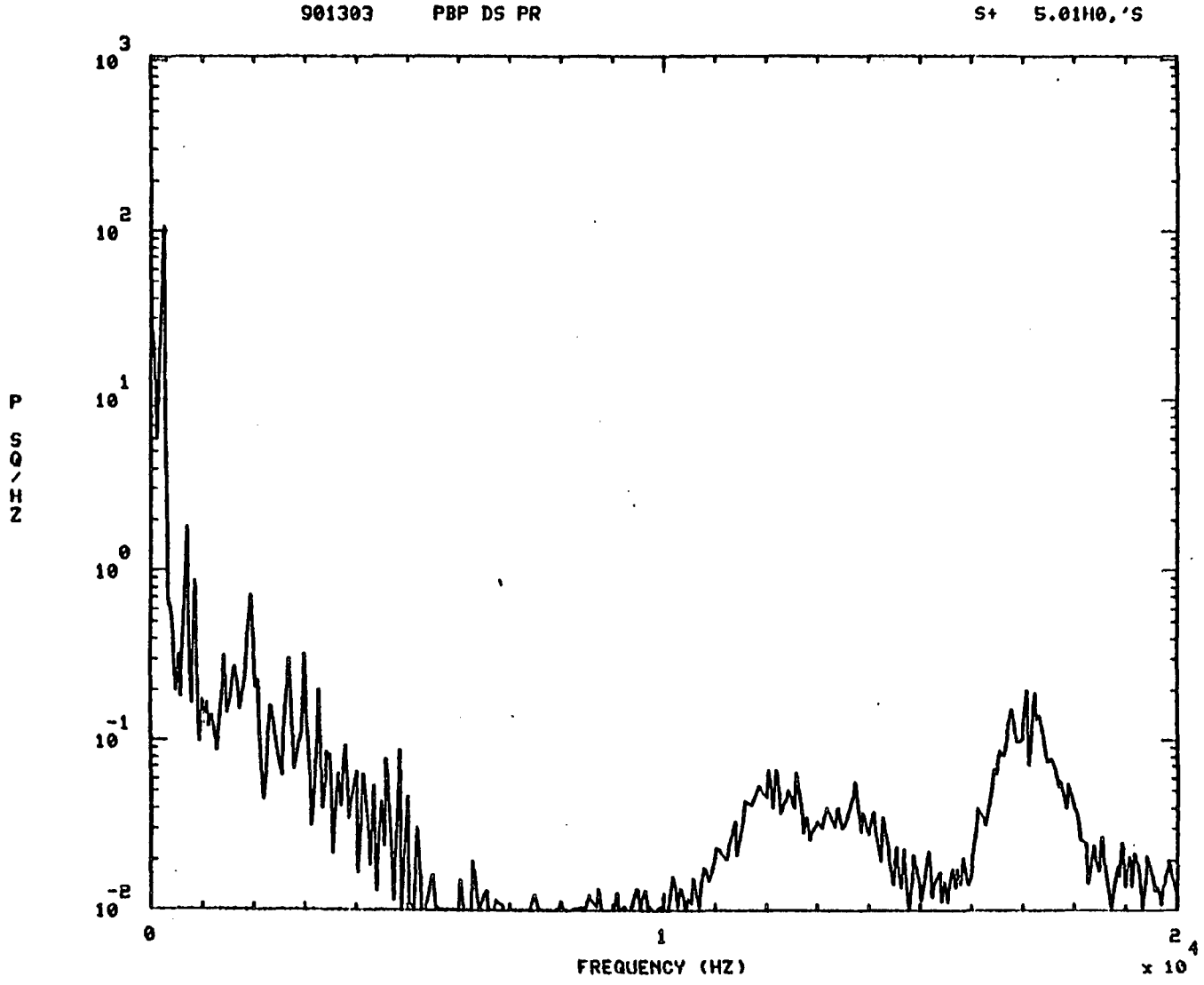

901301 OPB PC PR DC
S+ 250.01H0,'S
P SQ/HZ
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4

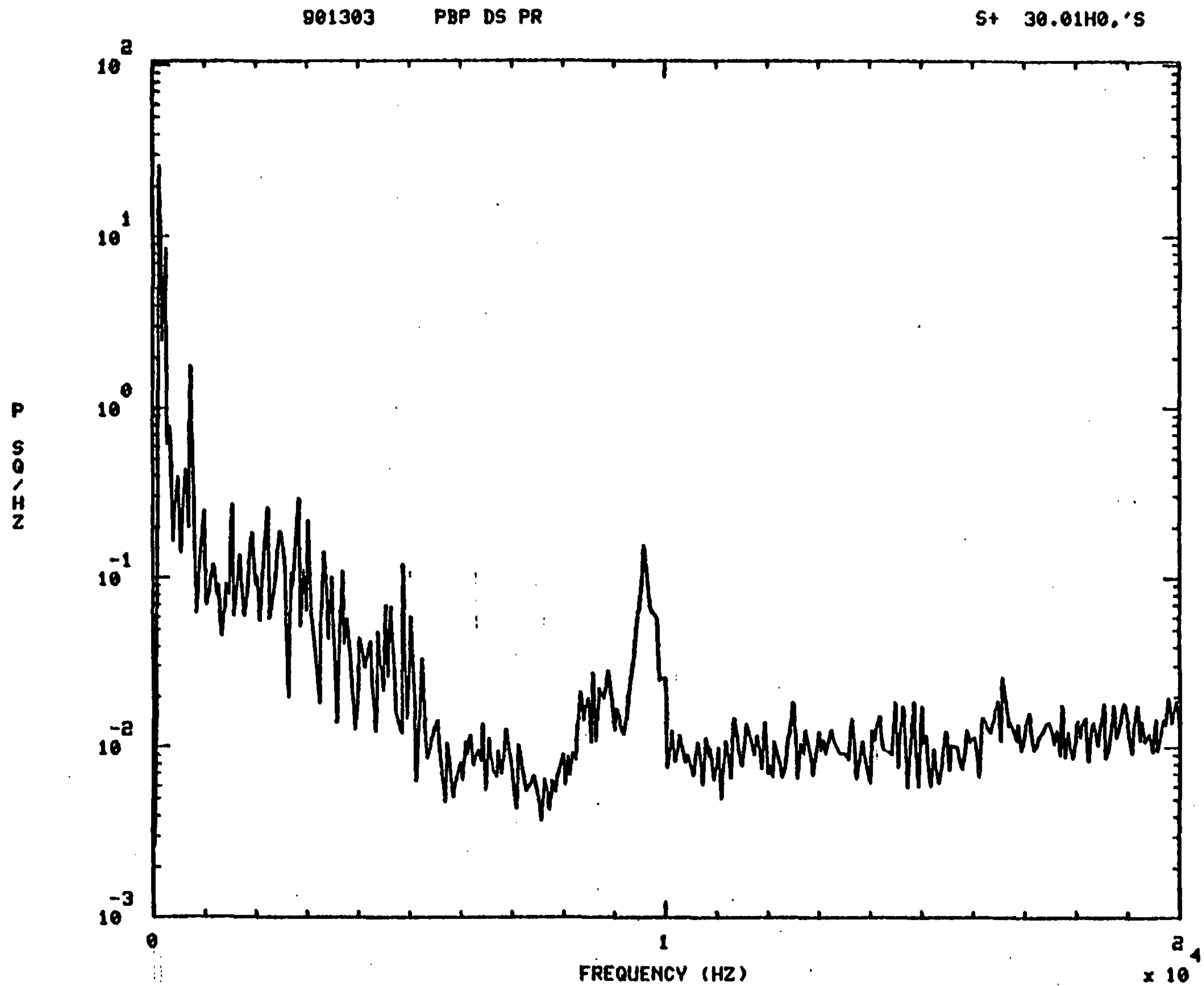

901301 OPB PC PR DC
S+ 400.01H0.'S
P SQ\HZ
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4


901303 HPOP DS PR
S+ 5.01H0,'S
P SQ\HZ
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4

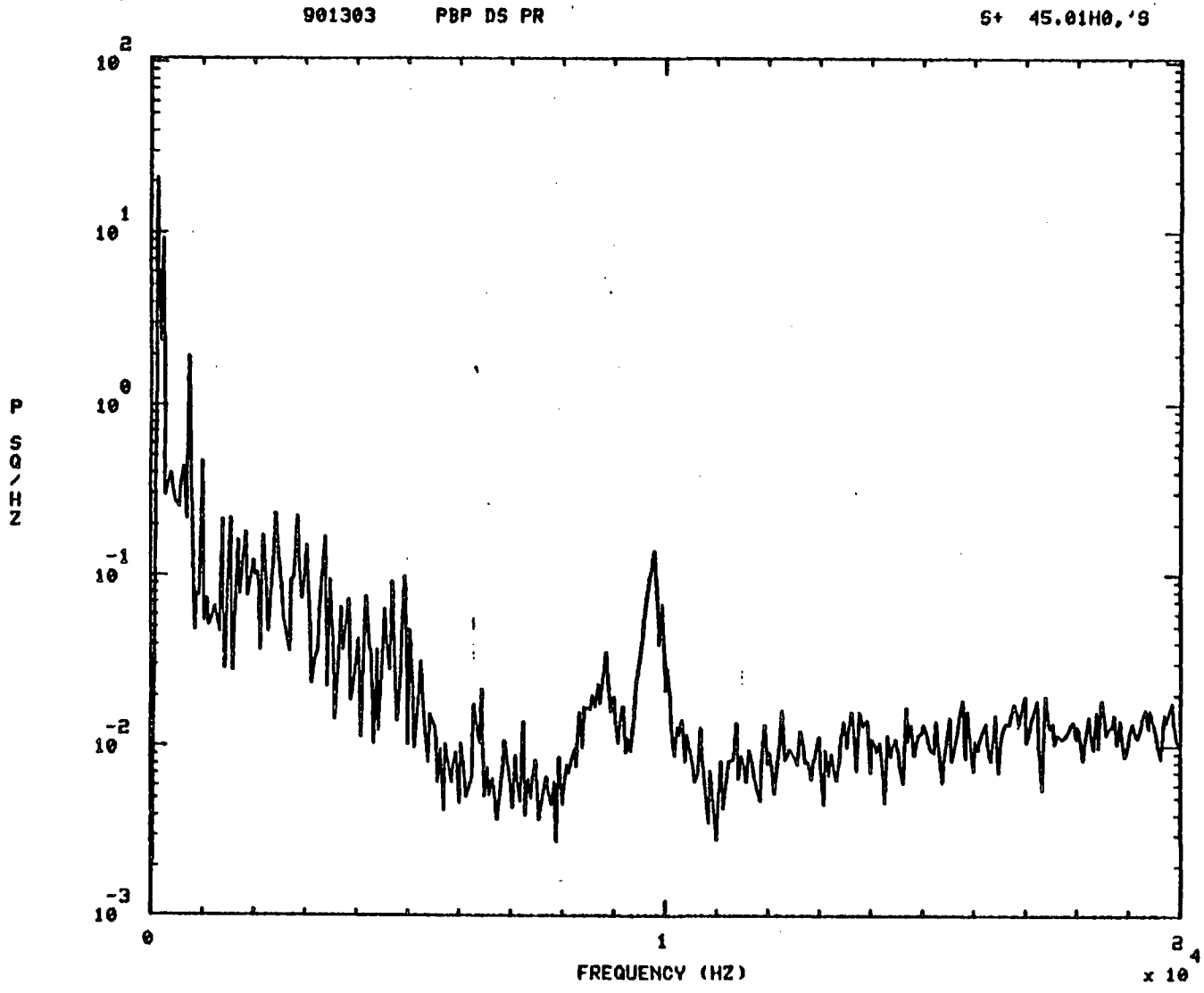

901303 HPOP DS PR
S+ 30.01H0,'S
P SQ\HZ
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4


901303 HPOP DS PR
S+ 45.01H0,'S
10^2
10^1
10^0
10^-1
10^-2
10^-3
P SQ\HZ
0
1
2
FREQUENCY (HZ)
x 10^4


901303 PBP DS PR
S+ 5.01H0,'S
P SQ\HZ
10^3
10^2
10^1
10^0
10^-1
10^-2
0
1
2
FREQUENCY (HZ)
x 10^4



901303 PBP DS PR
S+ 30.01H0,'S
P SQ/HZ
10^{2}
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-3}
0
1
2
FREQUENCY (HZ)
$\times 10^{4}$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S+ 45.01H0,'8
P SQ\HZ
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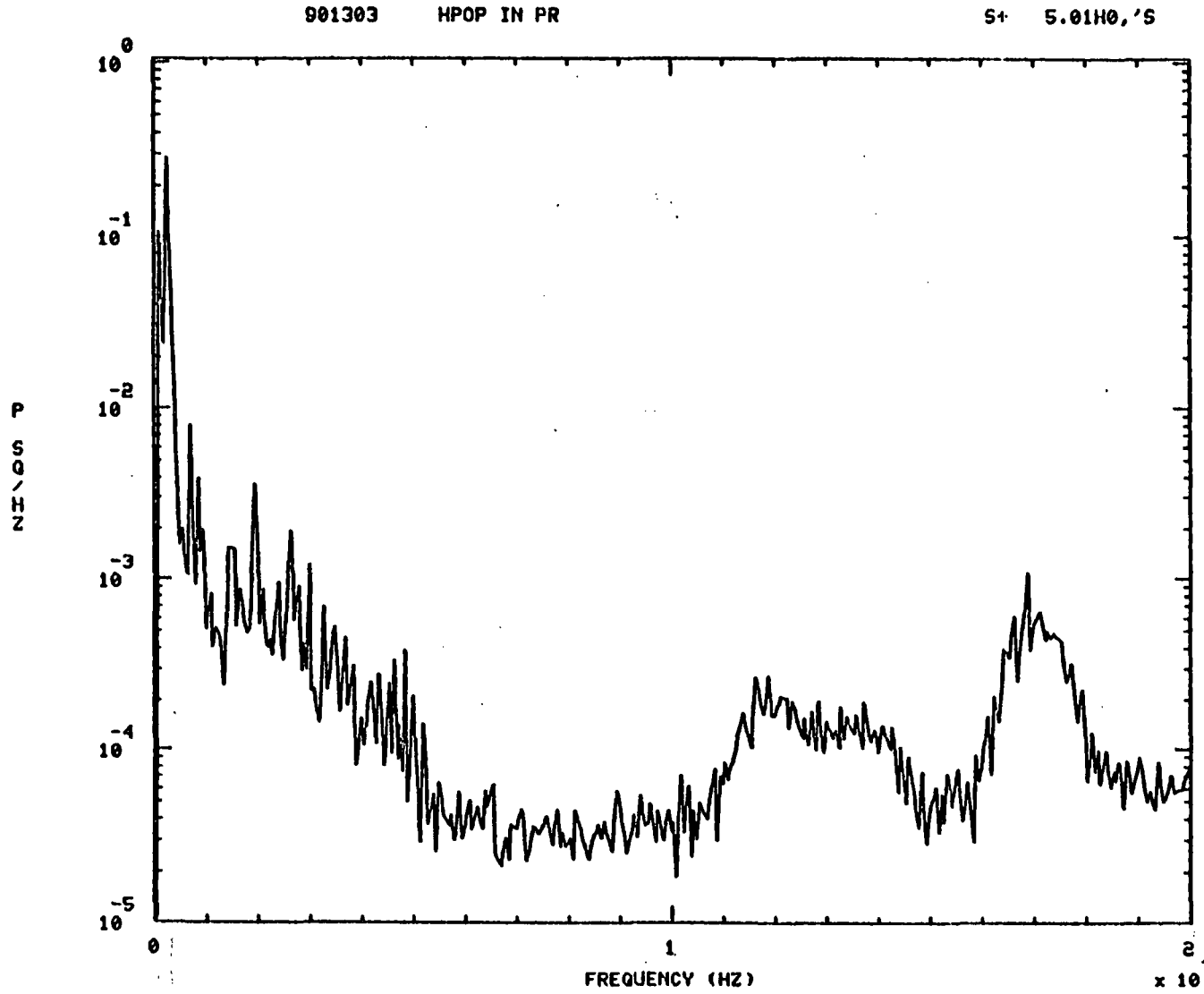
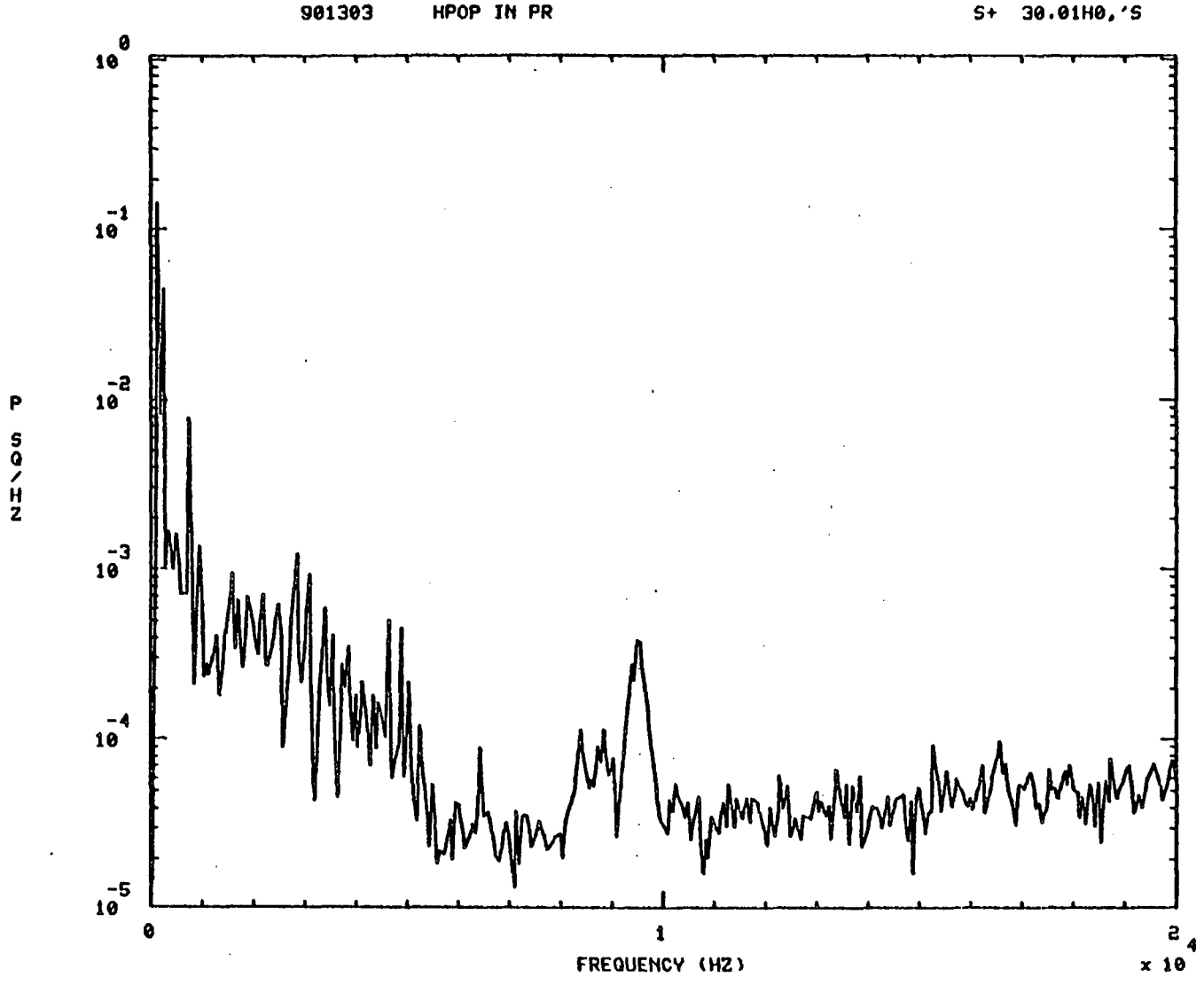
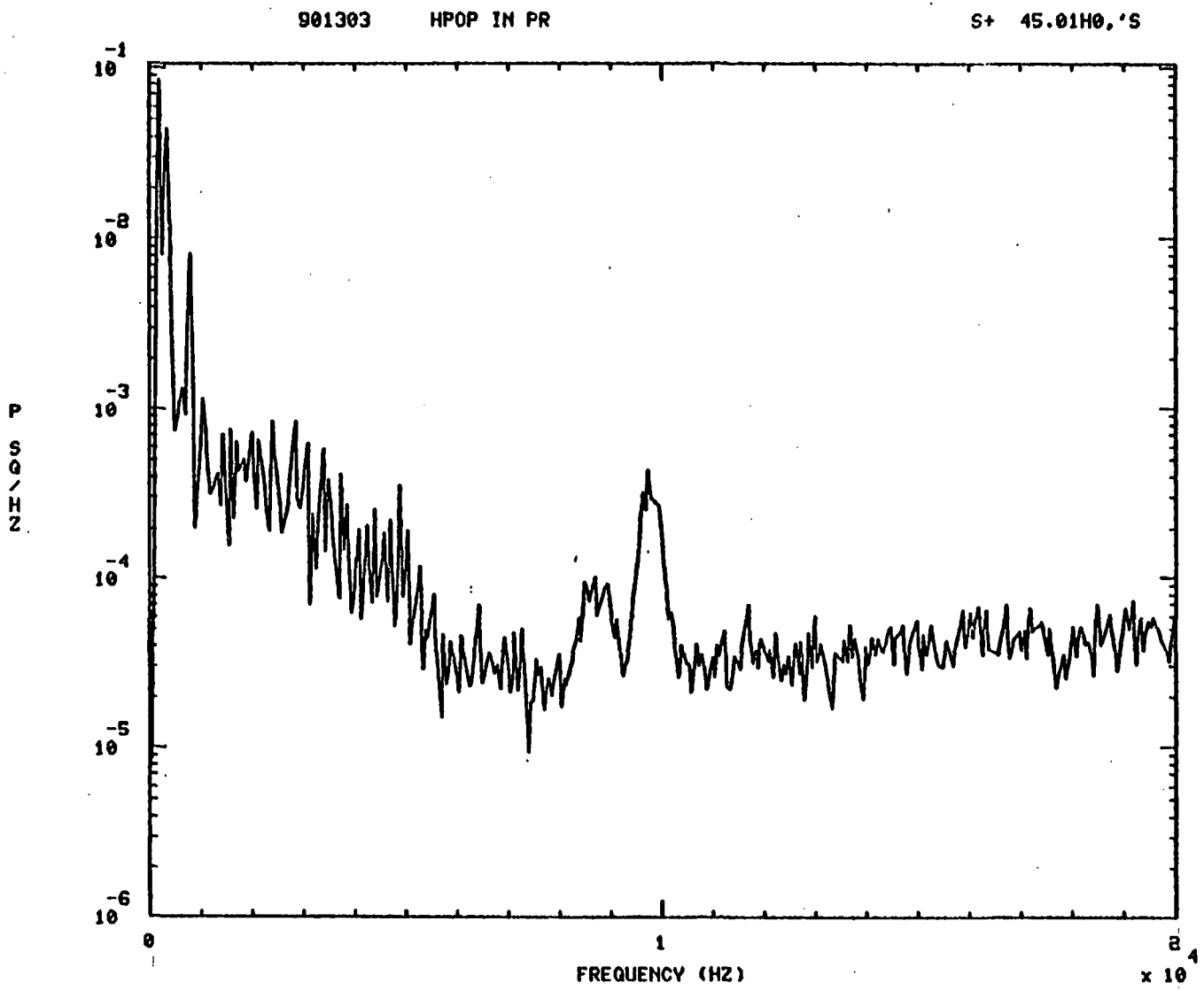
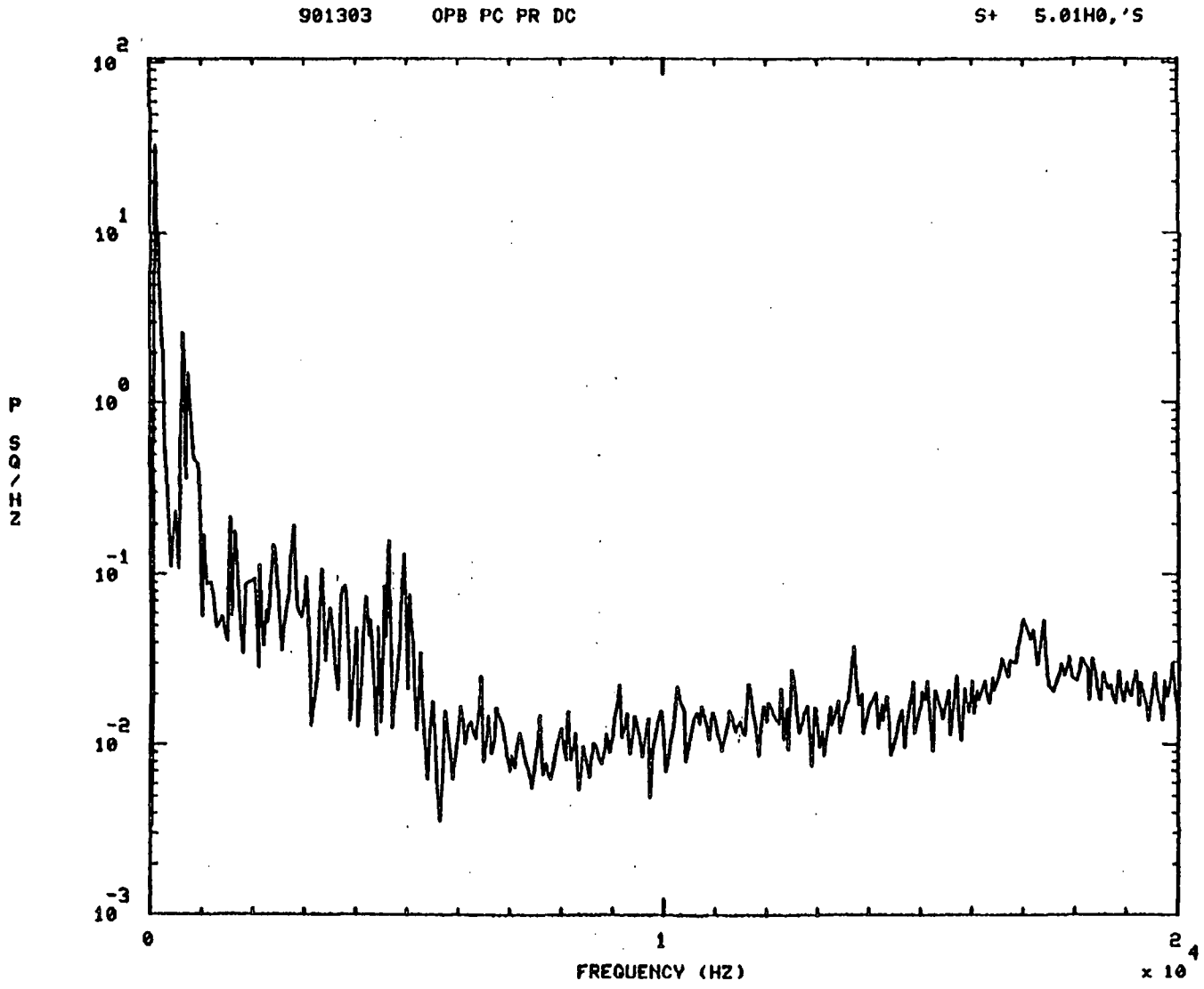
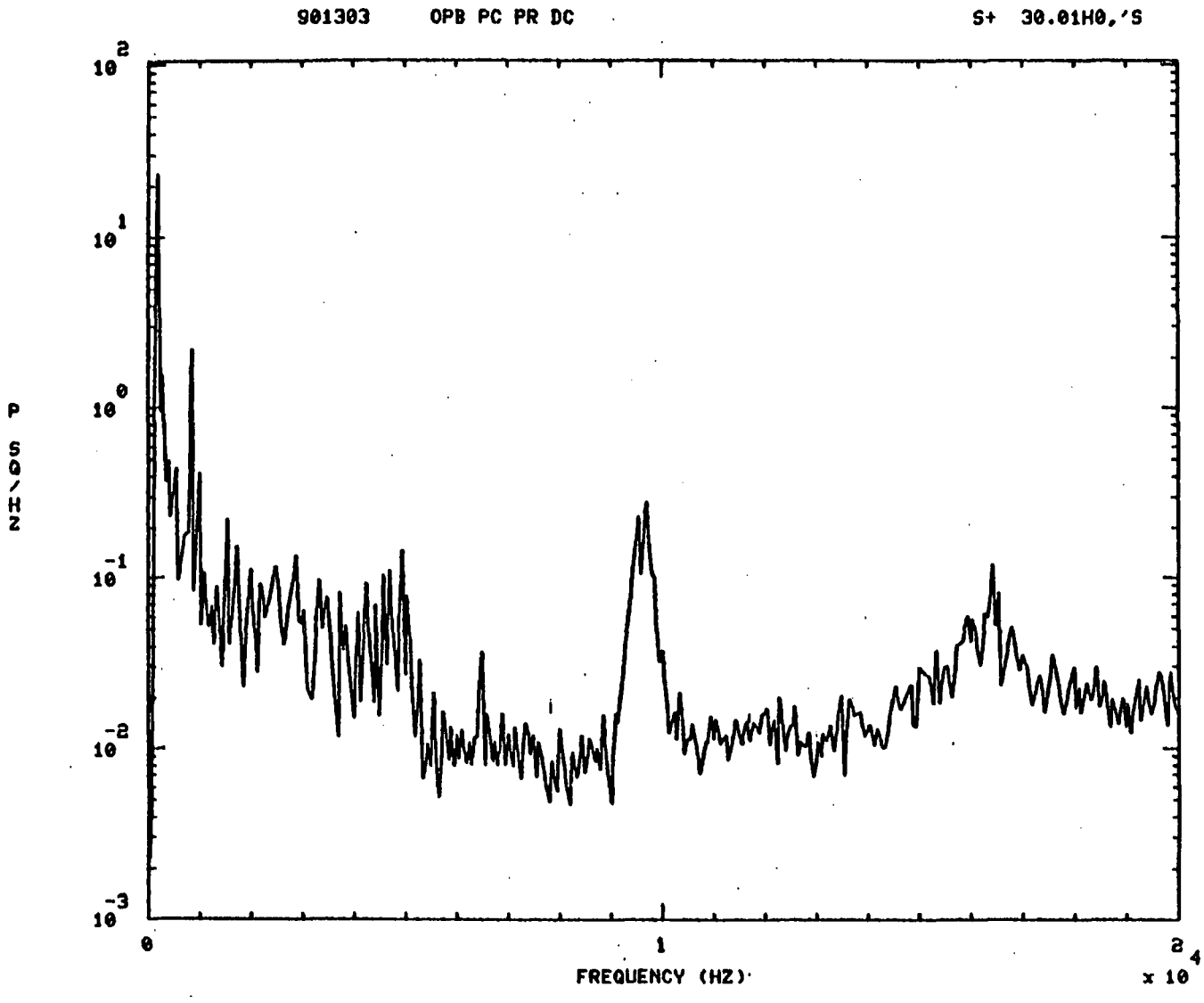
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4

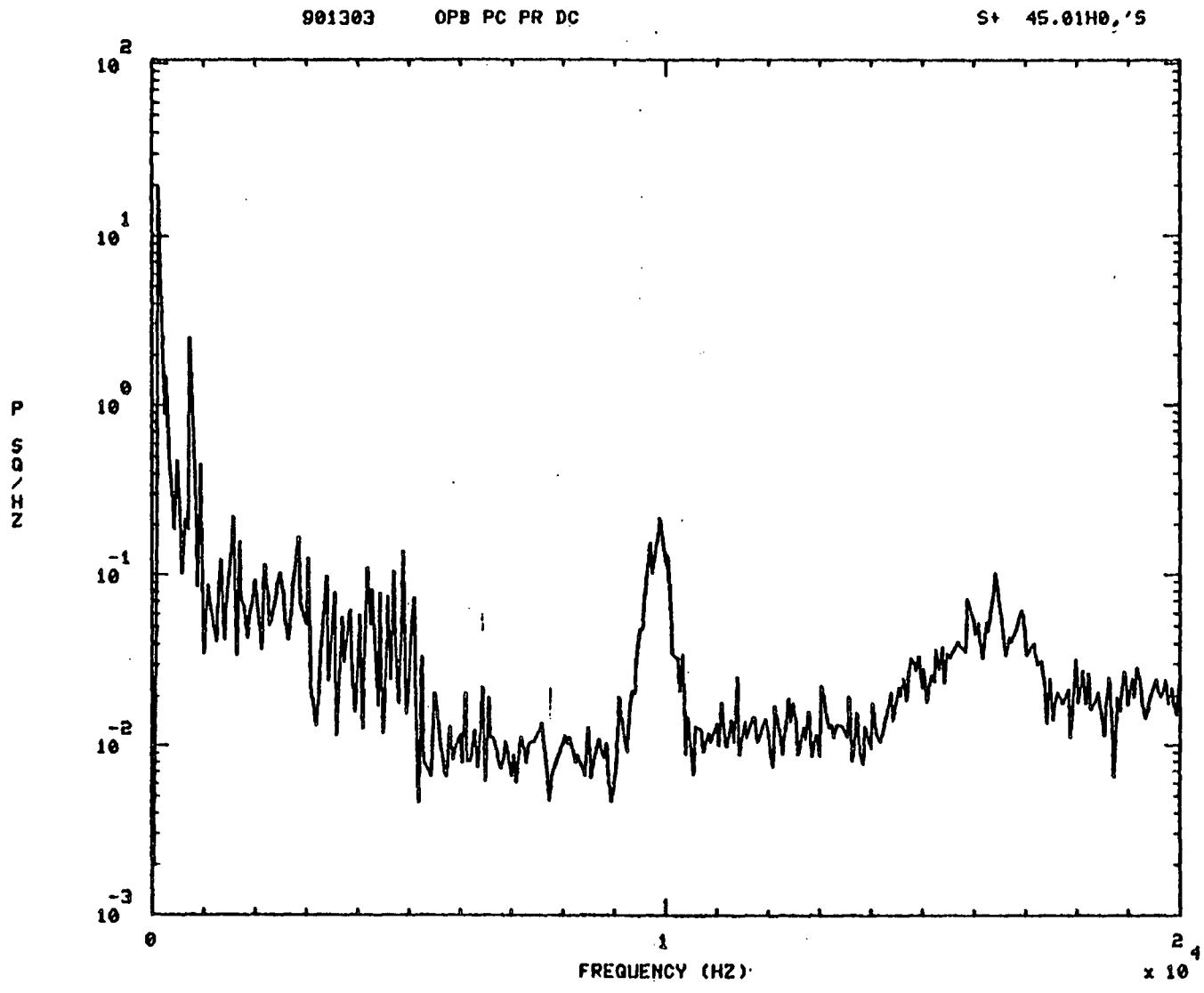

901303 HPOP IN PR
S+ 5.01H0,'S
P S Q \ H Z
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
FREQUENCY (HZ)
x 10^4

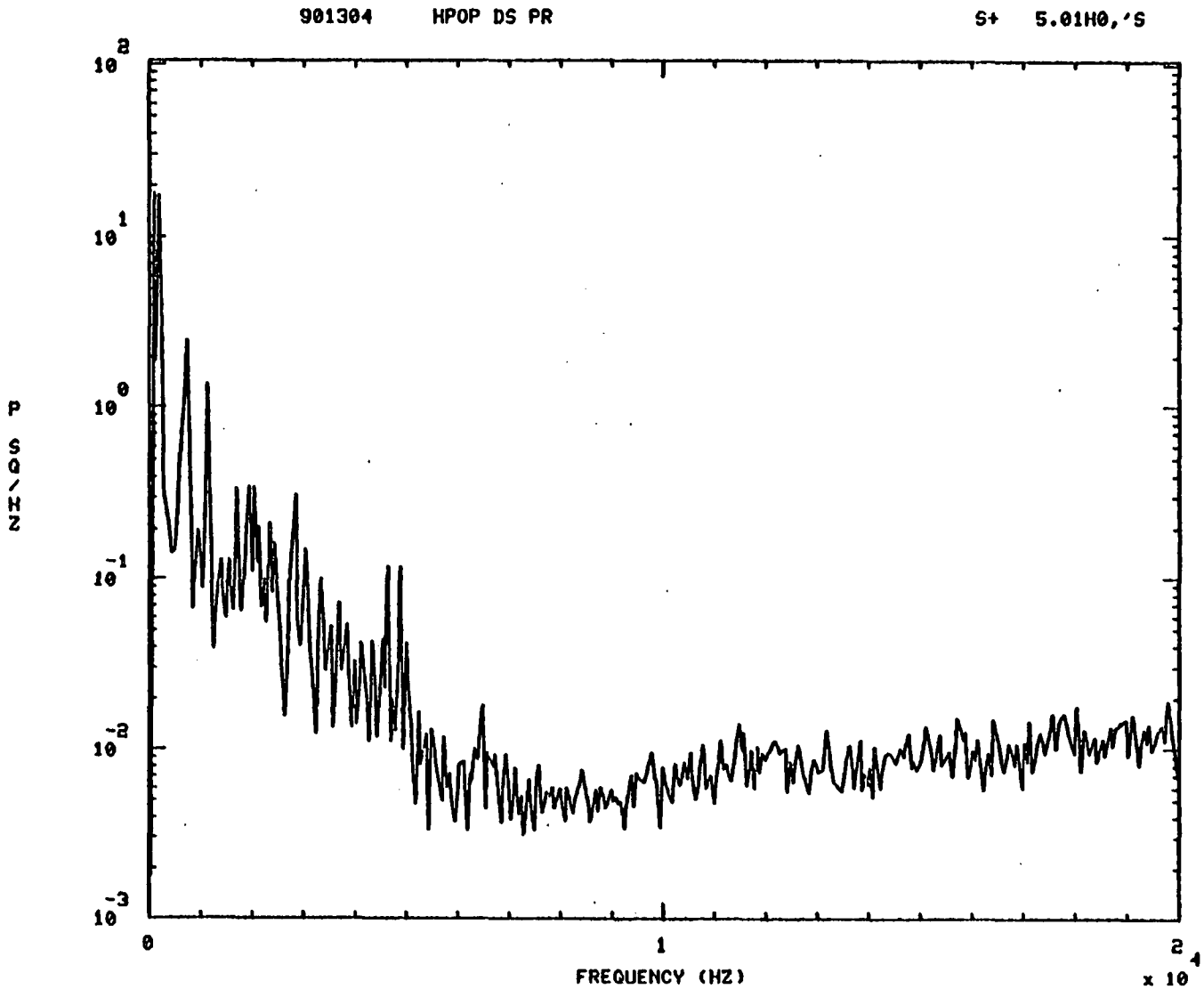

901303 HPOP IN PR
S+ 30.01H0,'S
P
S
Q
/
H
Z
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
FREQUENCY (HZ)
x 10^4

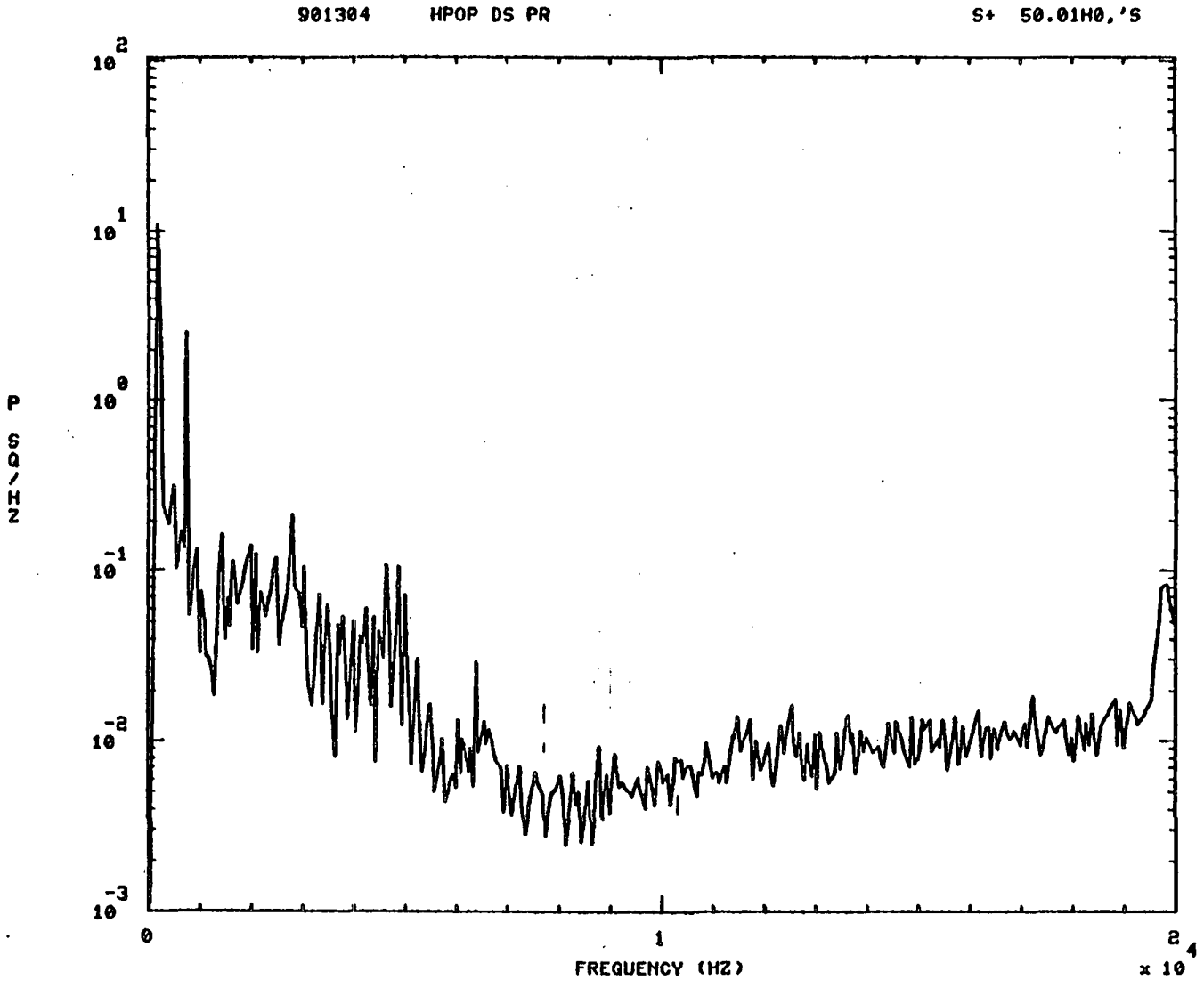

901303 HPOP IN PR
S+ 45.01H0,'S
P
S
Q
/
H
Z
10^-1
10^-2
10^-3
10^-4
10^-5
10^-6
0
1
2
FREQUENCY (HZ)
x 10^4

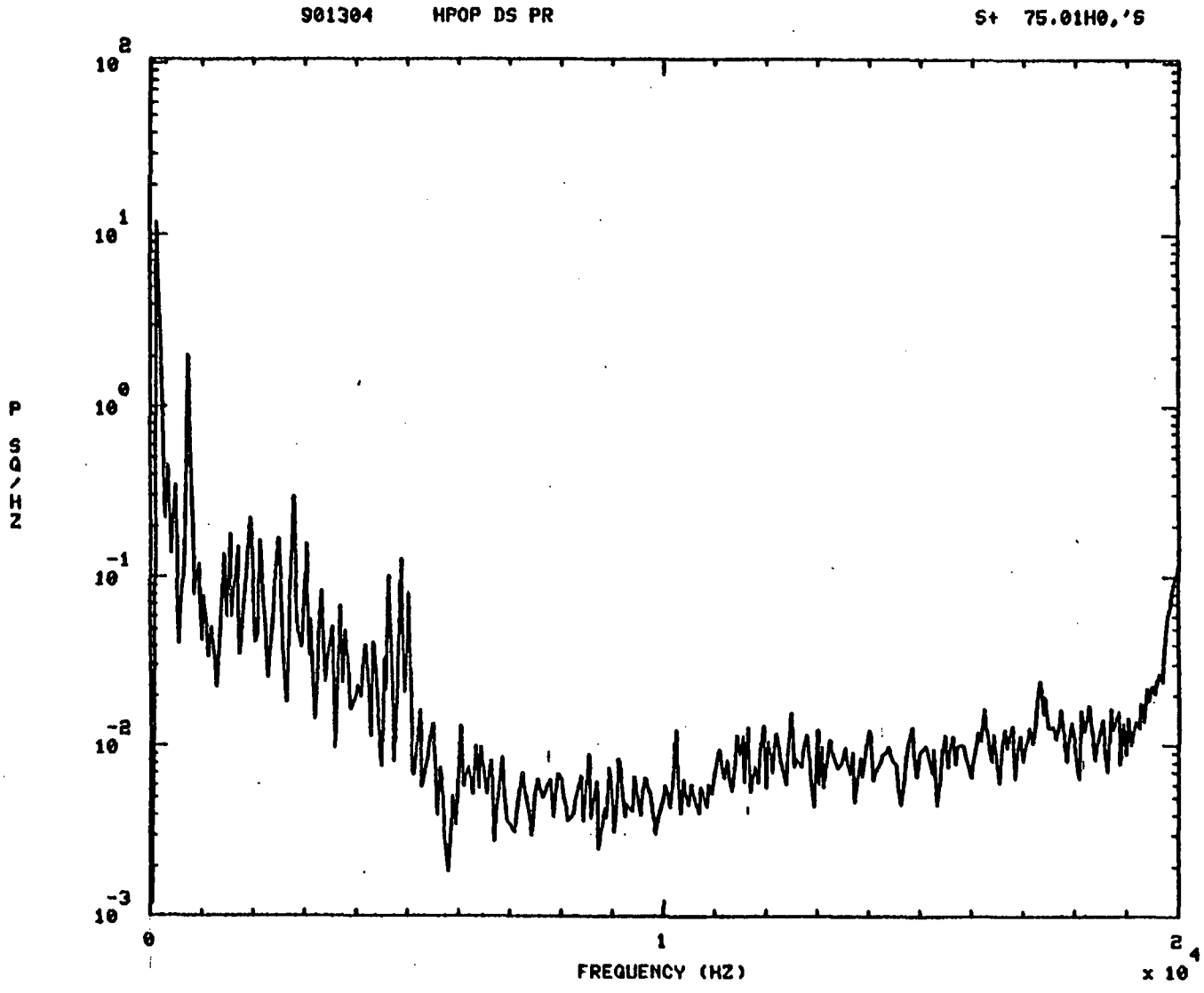

901303 OPB PC PR DC
S+ 5.01H0,'S
P SQ/HZ
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4

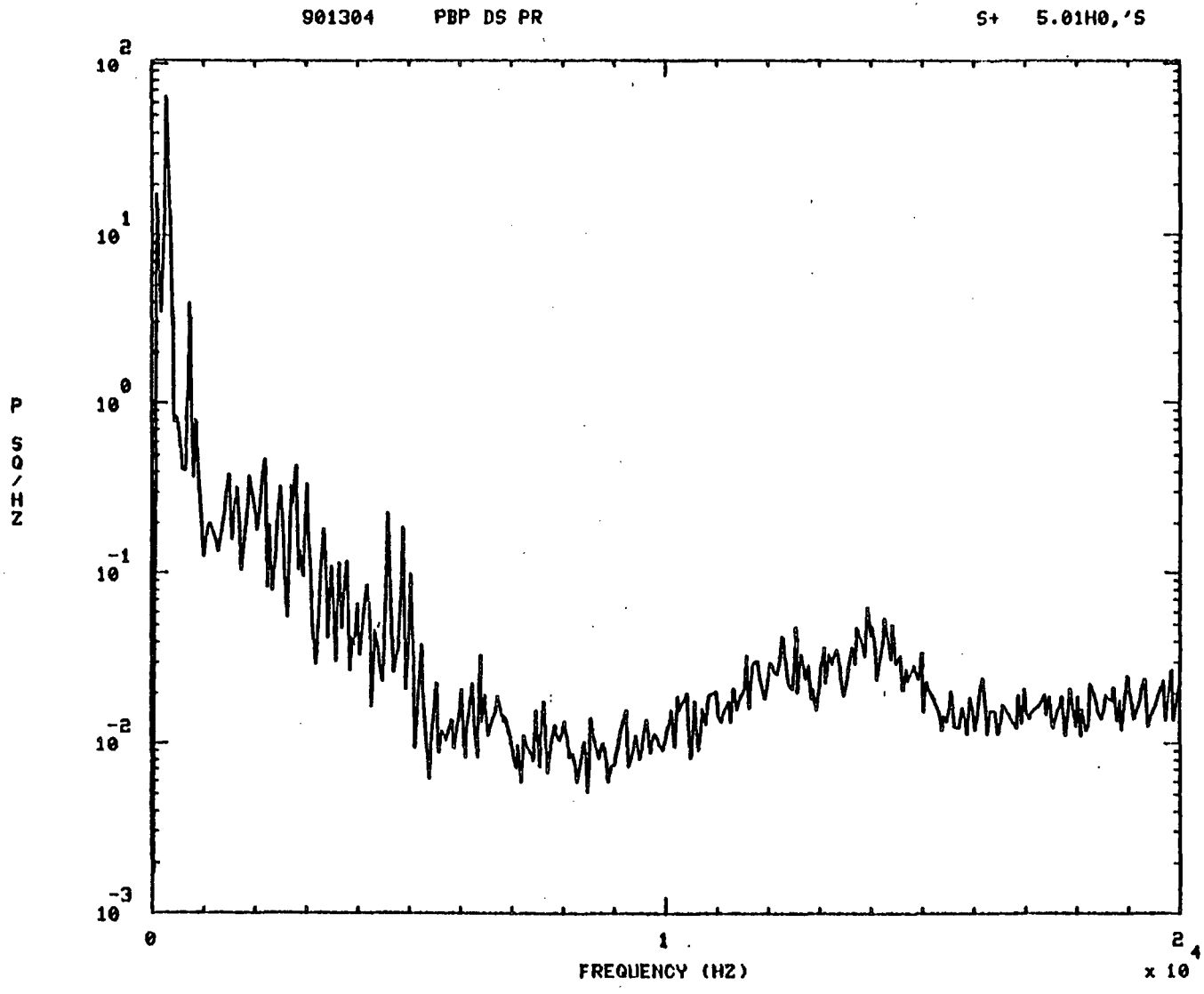

901303 OPB PC PR DC
S+ 30.01H0,'S
P S Q/HZ
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4

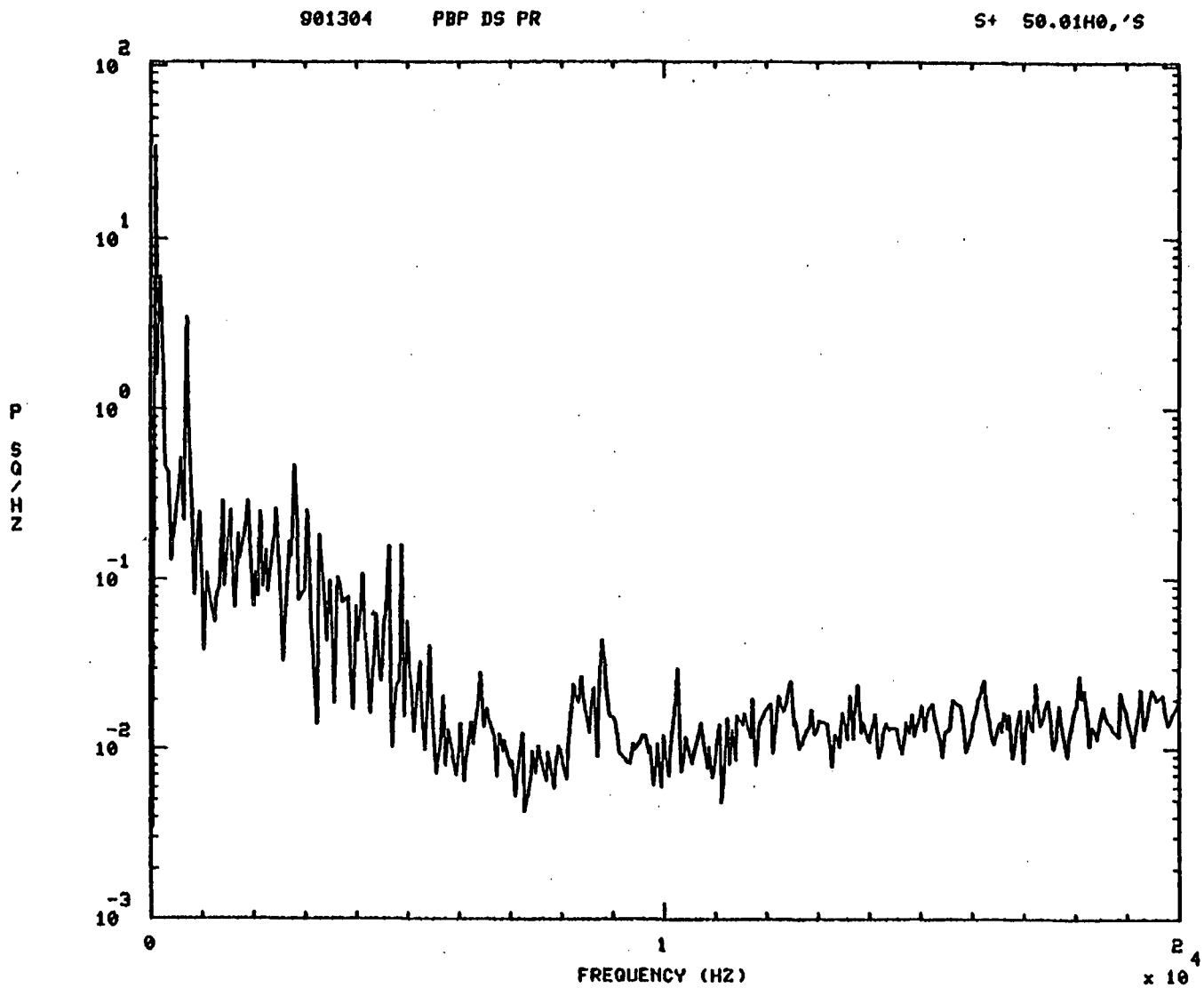

901303 OPB PC PR DC
S+ 45.01H0,'S
P
S
Q
\
H
Z
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4

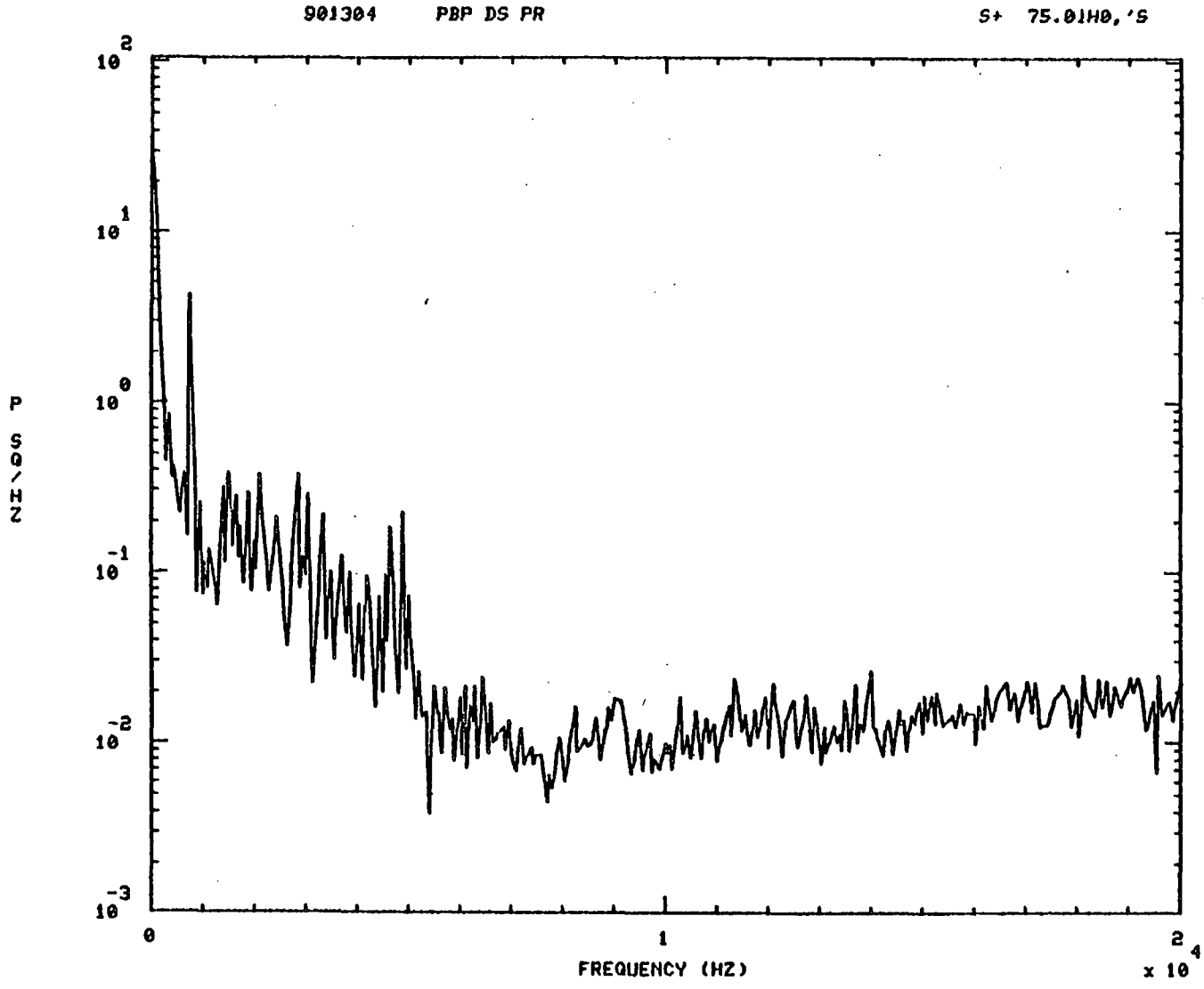

901304 HPOP DS PR
S+ 5.01H0,'S
10^2
10^1
10^0
10^-1
10^-2
10^-3
P S Q/HZ
0
1
2
FREQUENCY (HZ)
x 10^4

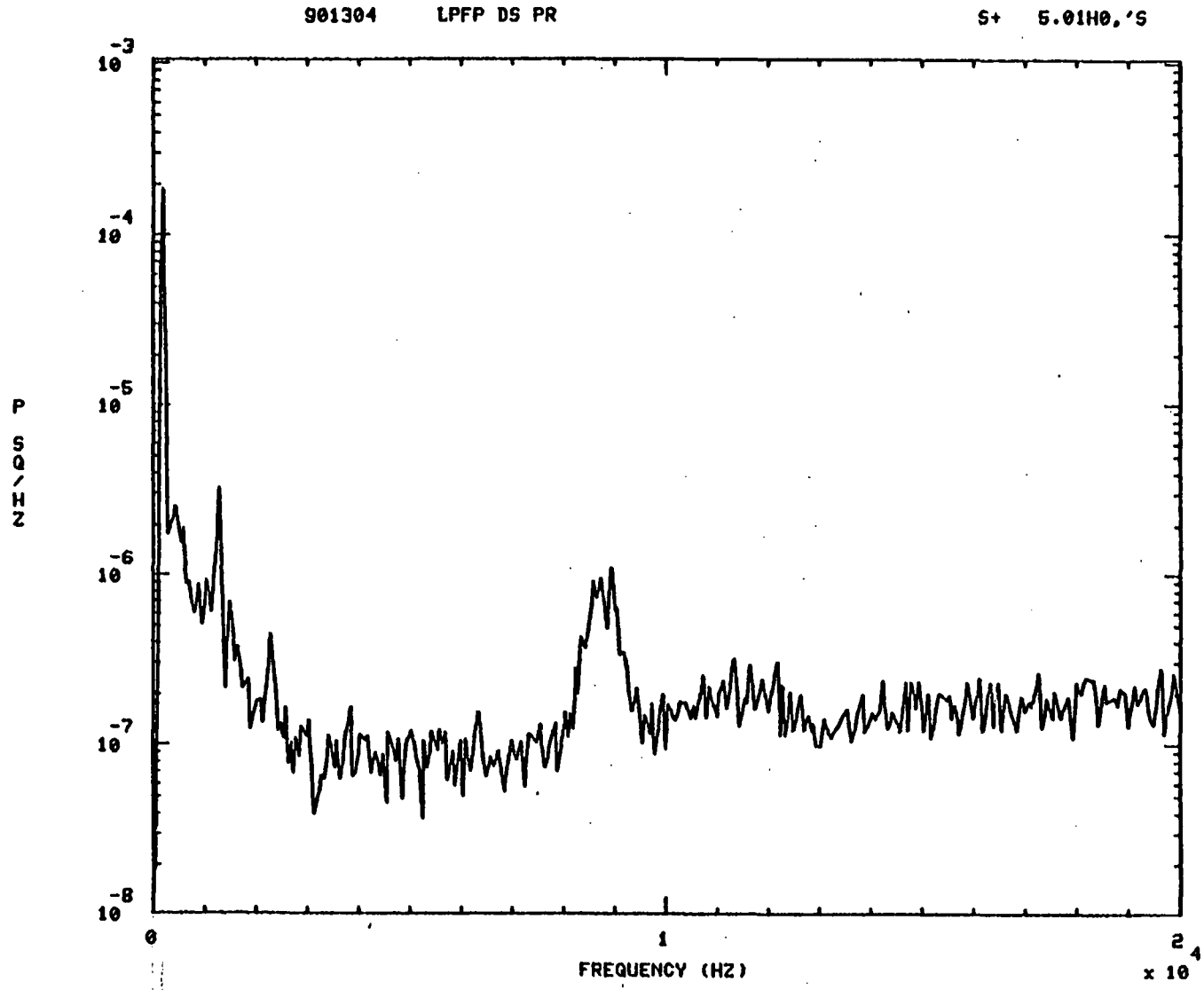

901304 HPOP DS PR
S+ 50.01H0,'S
P
S
Q
/
H
Z
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4

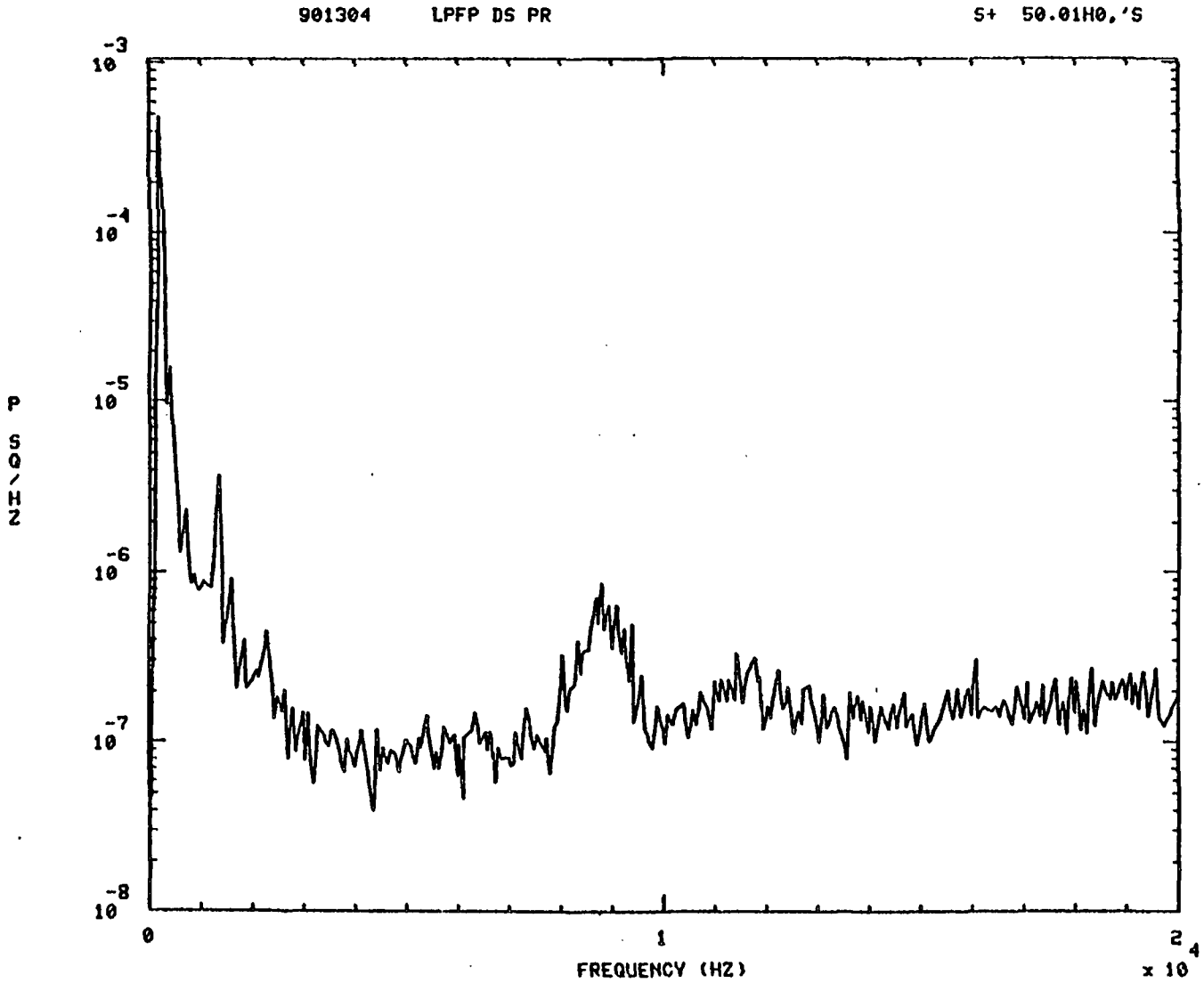

901304 HPOP DS PR
S+ 75.01H0,'S
P SQ\HZ
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4

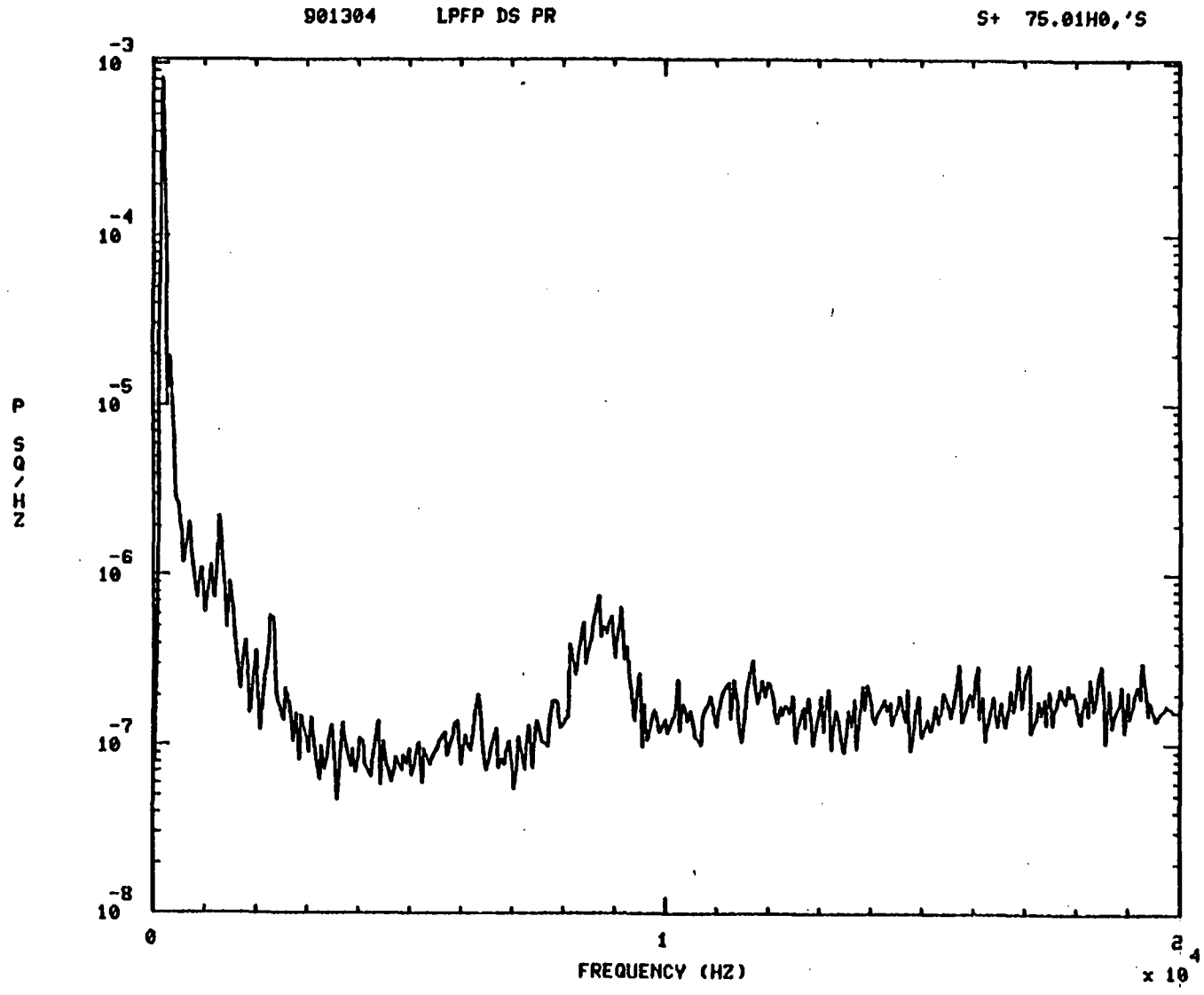

901304 PBP DS PR
S+ 5.01H0,'S
P SQ/HZ
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4

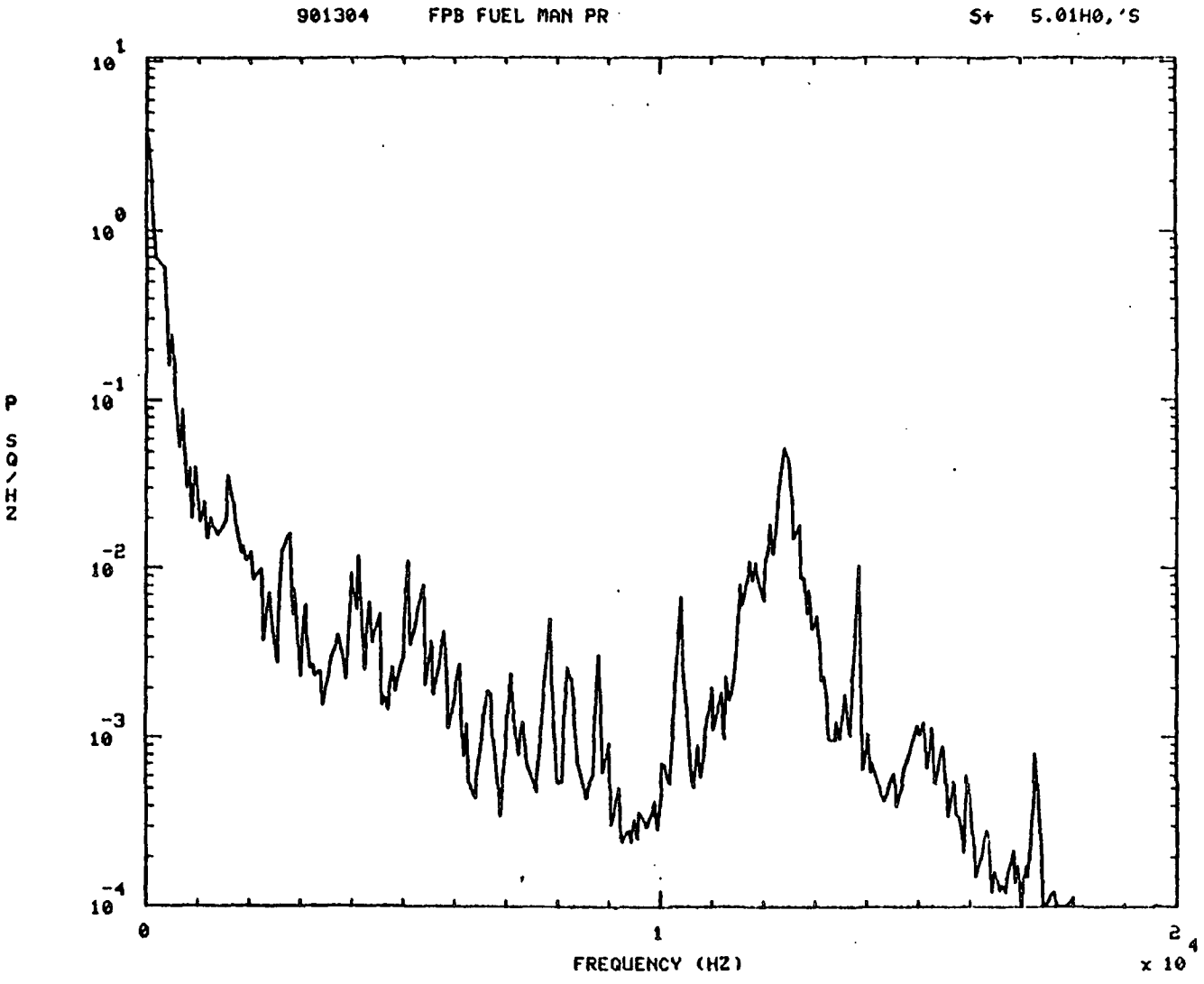

901304 PBP DS PR
S+ 50.01H0,'S
P S Q / H Z
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4

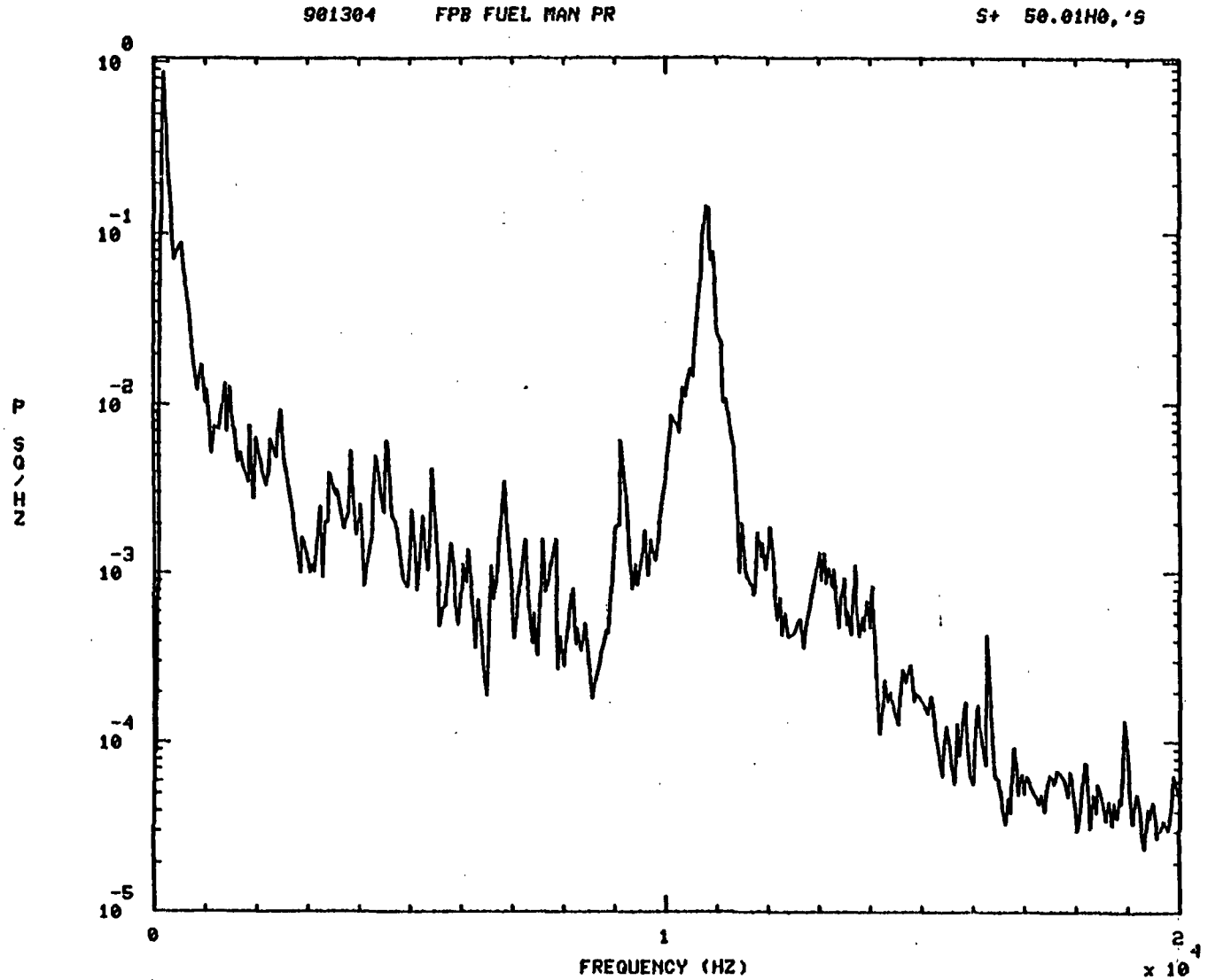

901304 PBP DS PR
S+ 75.01H0,'S
P S0/HZ
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
4
x 10
FREQUENCY (HZ)

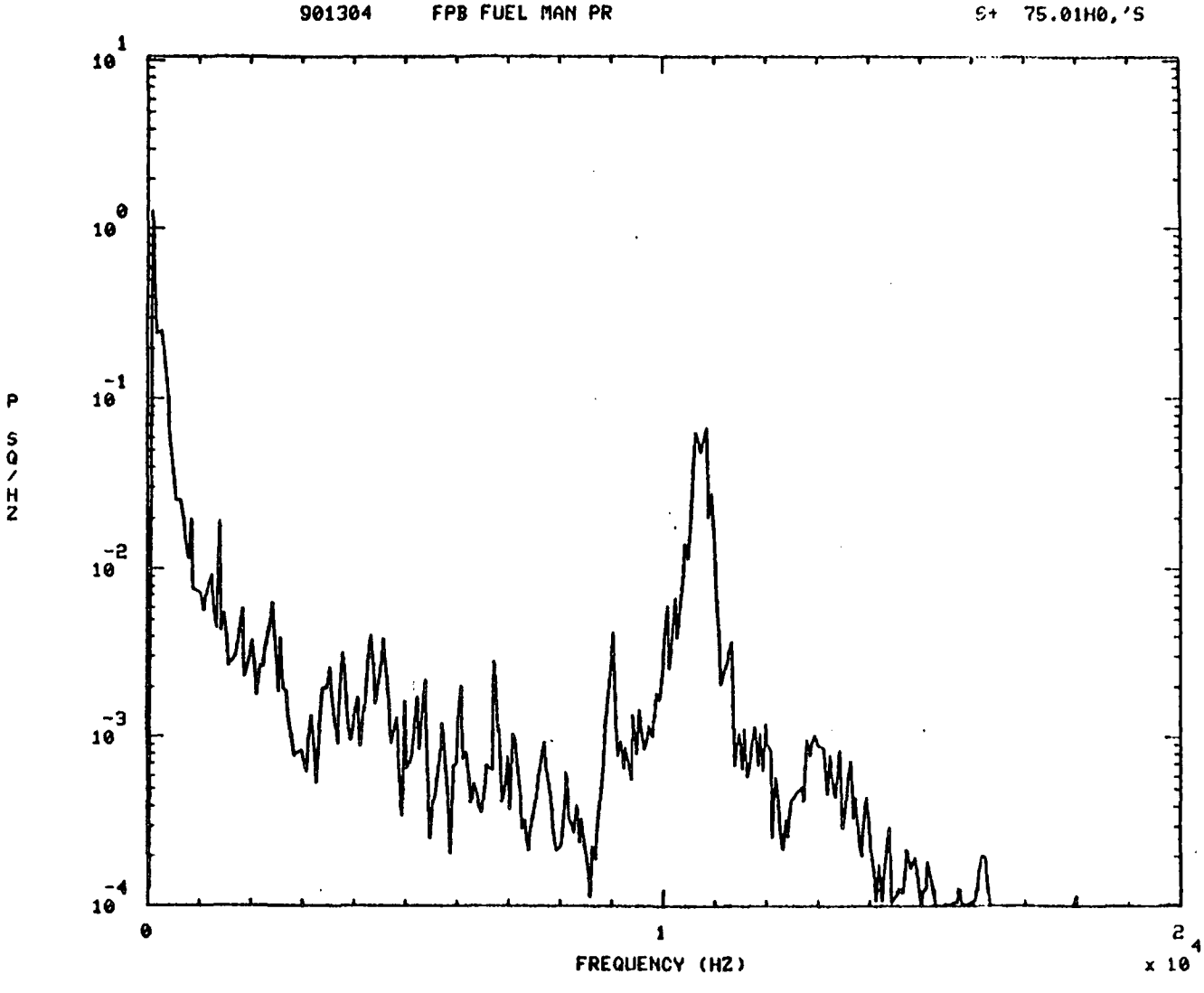

901304 LPFP DS PR
S+ 5.01H0,'S
P SQ/HZ
10^-3
10^-4
10^-5
10^-6
10^-7
10^-8
0
1
2
FREQUENCY (HZ)
x 10^4

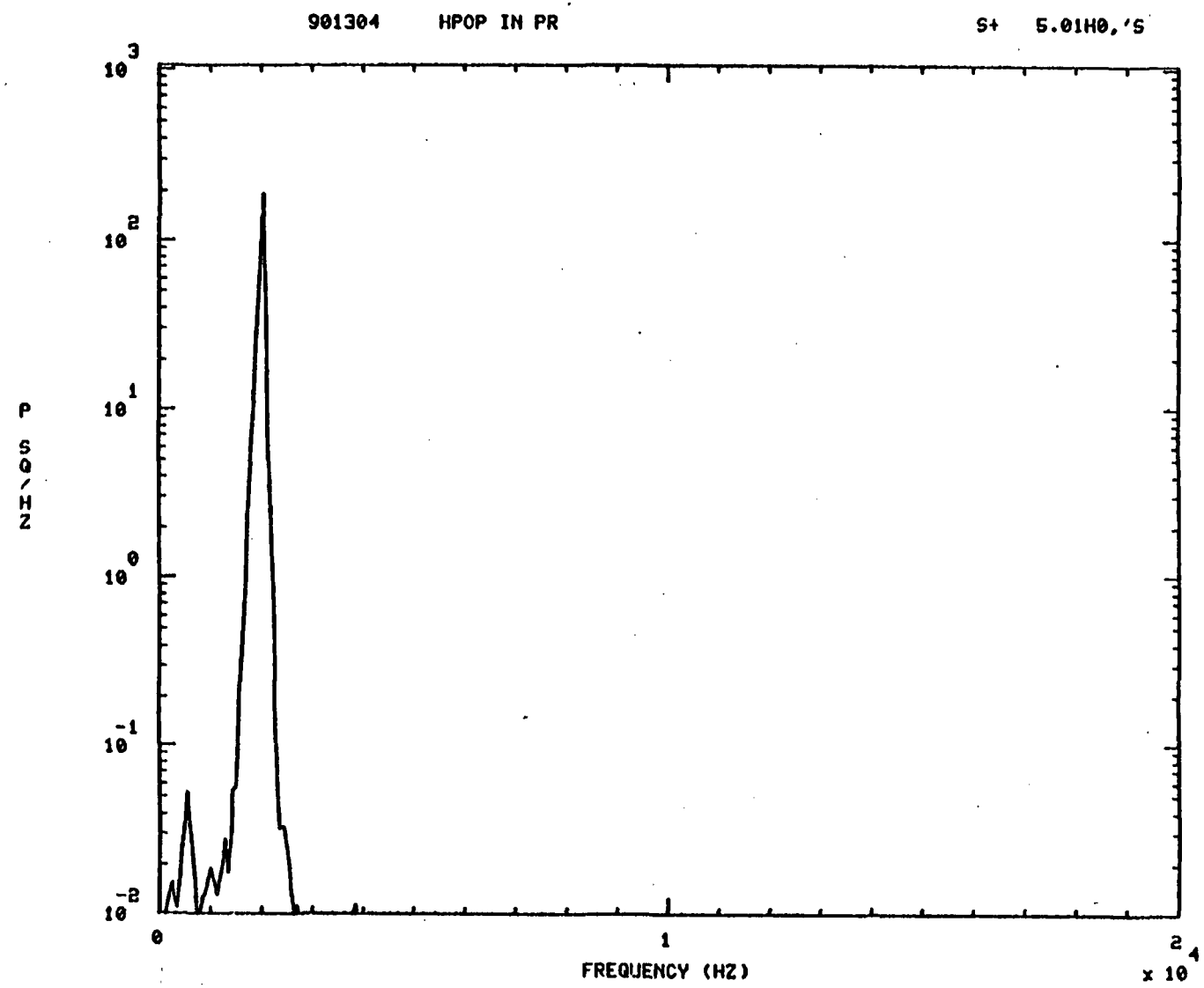

901304 LPFP DS PR
S+ 50.01H0,'S
P SQ\HZ
10^-3
10^-4
10^-5
10^-6
10^-7
10^-8
0
1
2
FREQUENCY (HZ)
x 10^4

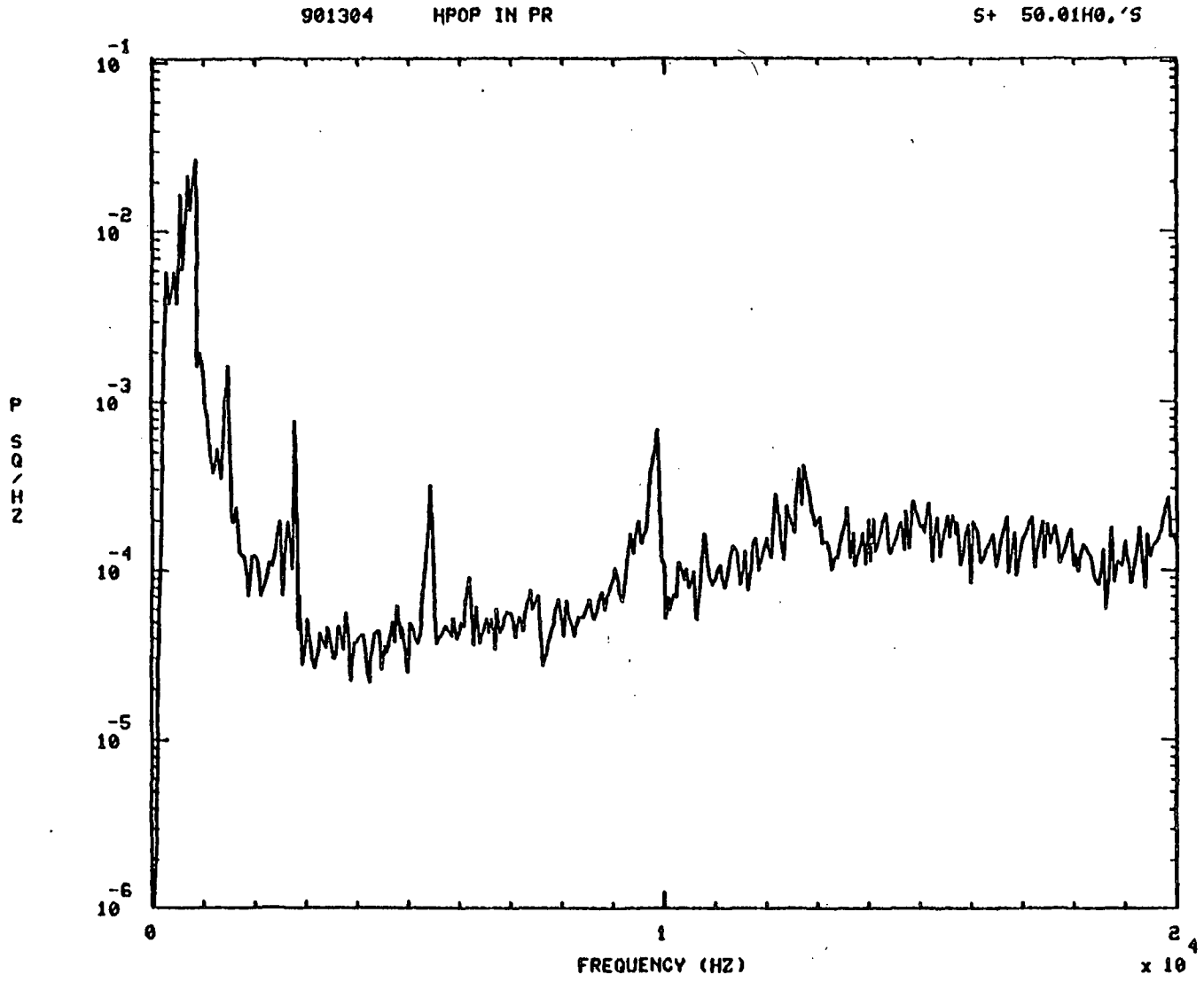

901304 LPFP DS PR
S+ 75.01H0,'S
P
S
Q
/
H
Z
10^-3
10^-4
10^-5
10^-6
10^-7
10^-8
0
1
2
FREQUENCY (HZ)
x 10^4

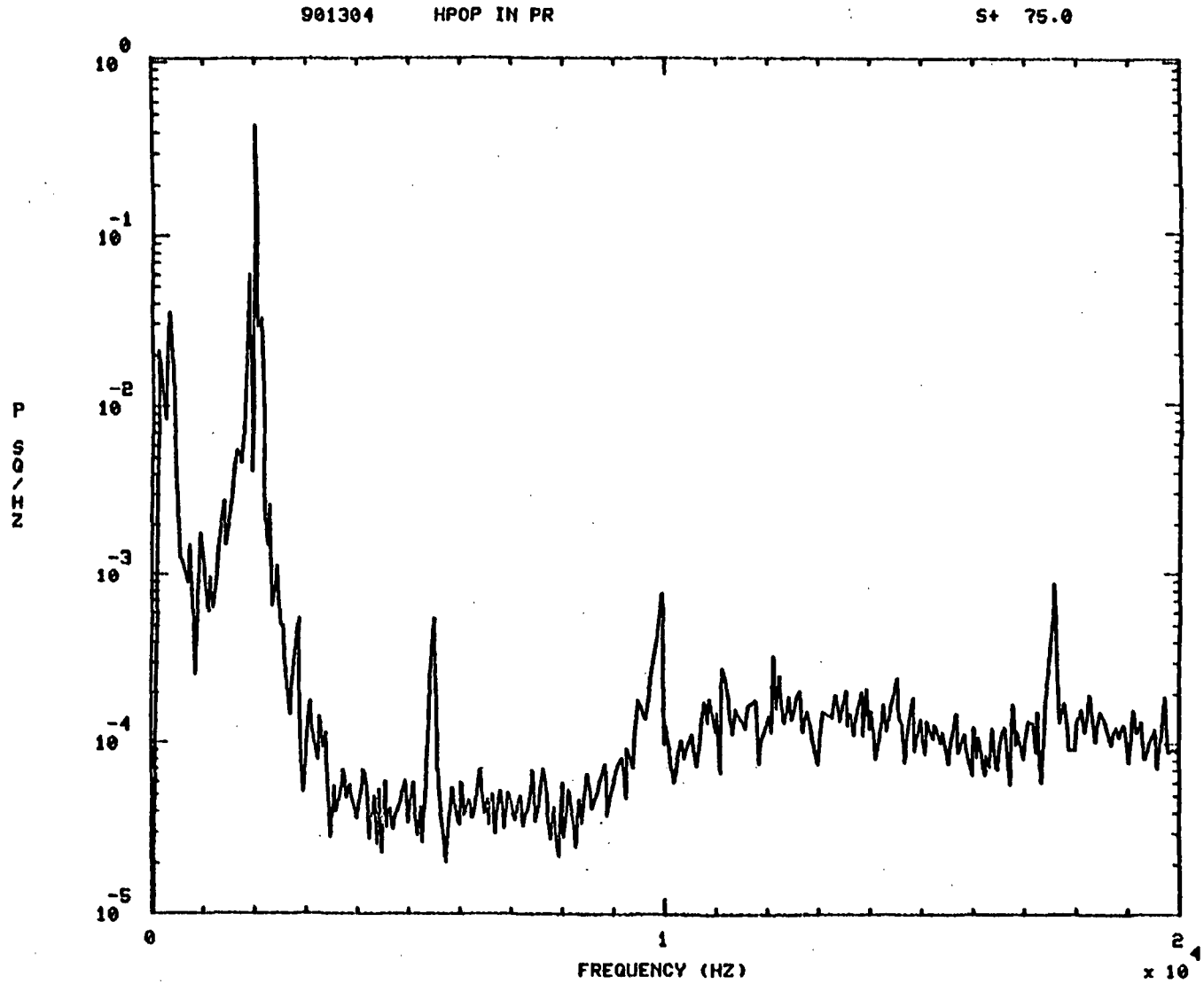

901304 FPB FUEL MAN PR
S+ 5.01H0,'S
P SQ\HZ
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
4
x 10
FREQUENCY (HZ)

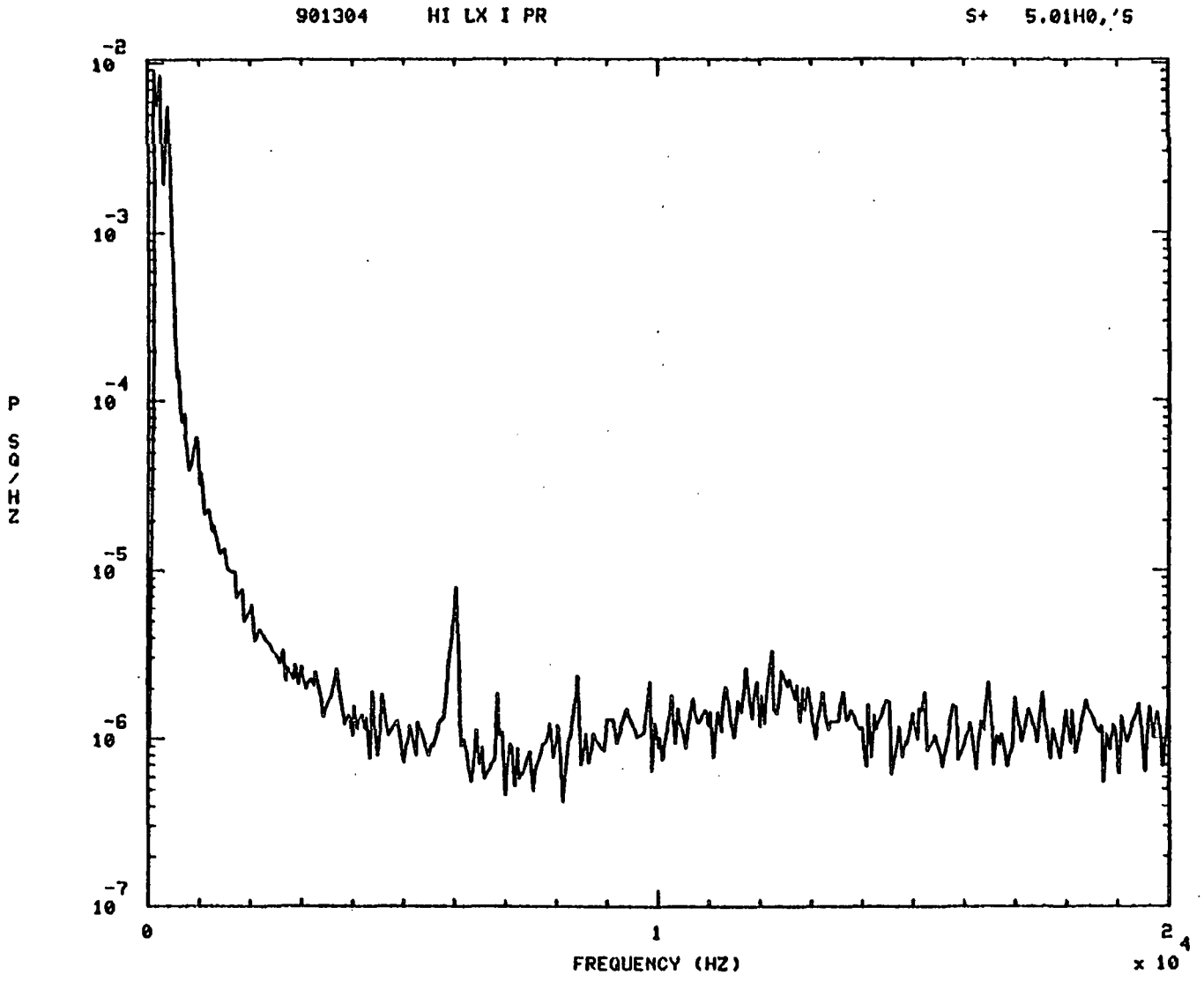

901304 FPB FUEL MAN PR
S+ 50.01H0,'S
P SQ\HZ
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
FREQUENCY (HZ)
x 10^-1

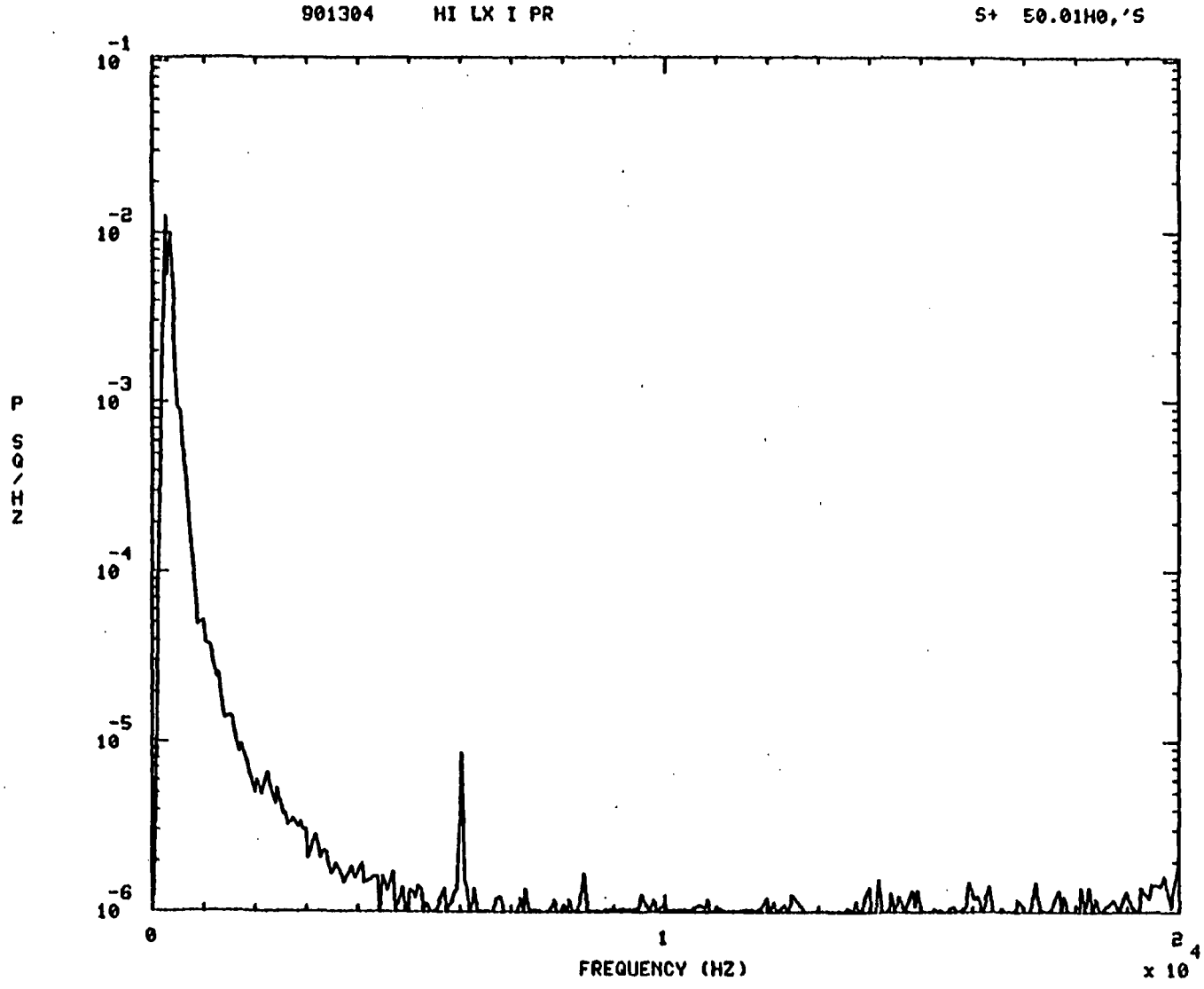

901304 FPB FUEL MAN PR
S+ 75.01H0,'S
P S Q / H Z
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
FREQUENCY (HZ)
x 10^4

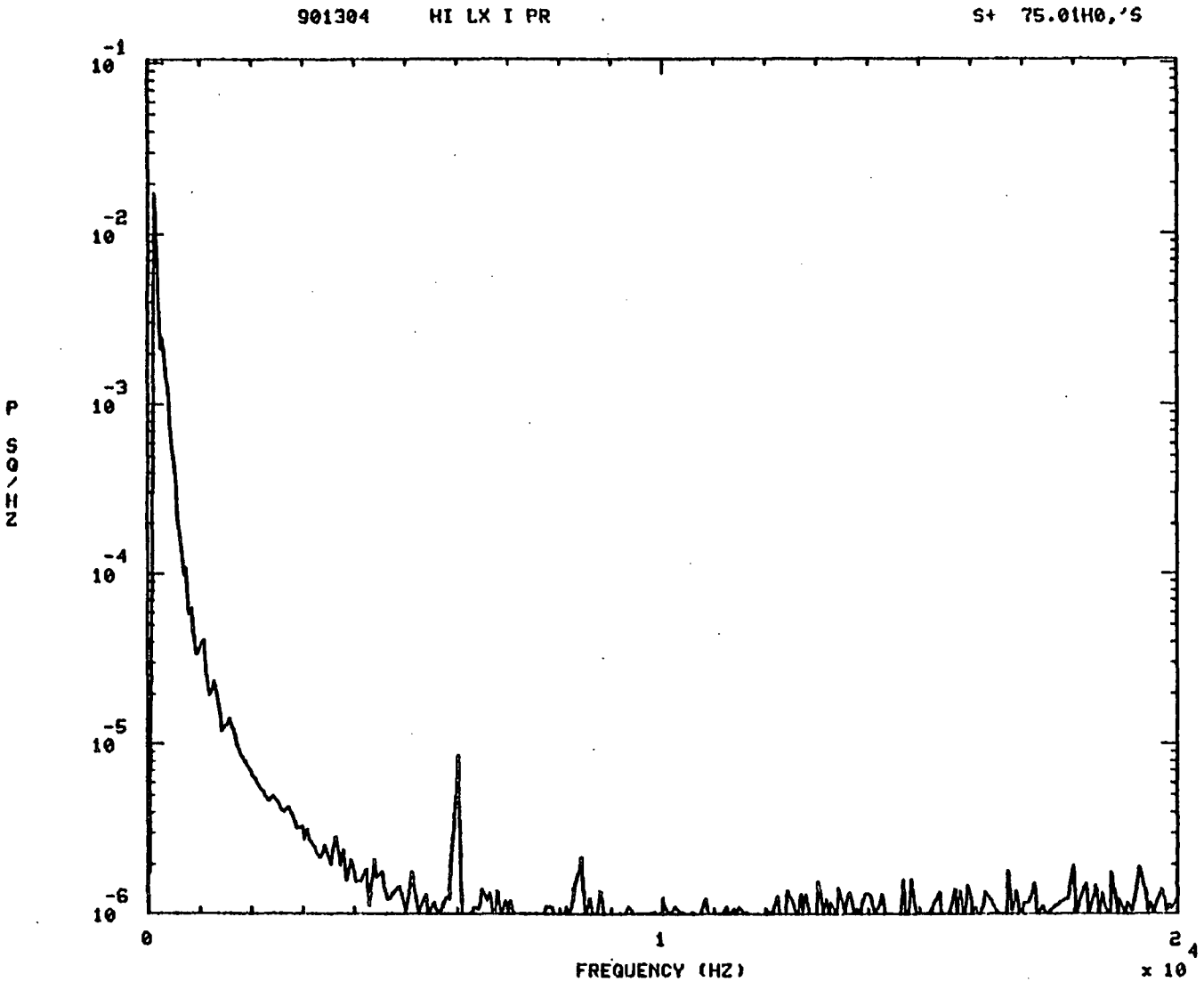

901304 HPOP IN PR
S+ 5.01H0,'S
P S Q / H Z
10 3
10 2
10 1
10 0
10 -1
10 -2
0
1
2
FREQUENCY (HZ)
x 10 4

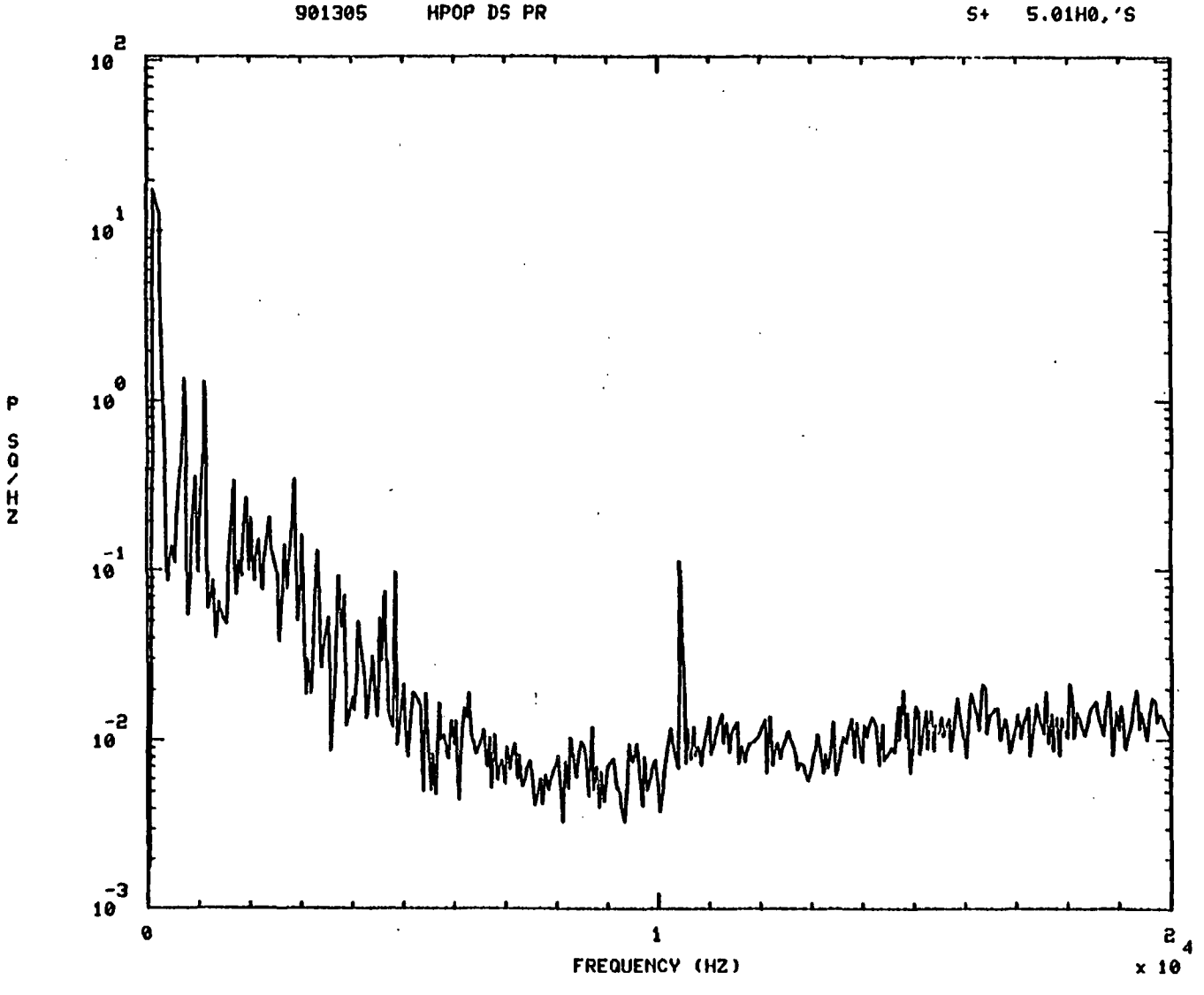

901304 HPOP IN PR
S+ 50.01H0,'S
P S Q \ H Z
10^-1
10^-2
10^-3
10^-4
10^-5
10^-6
0
1
2
FREQUENCY (HZ)
x 10^4

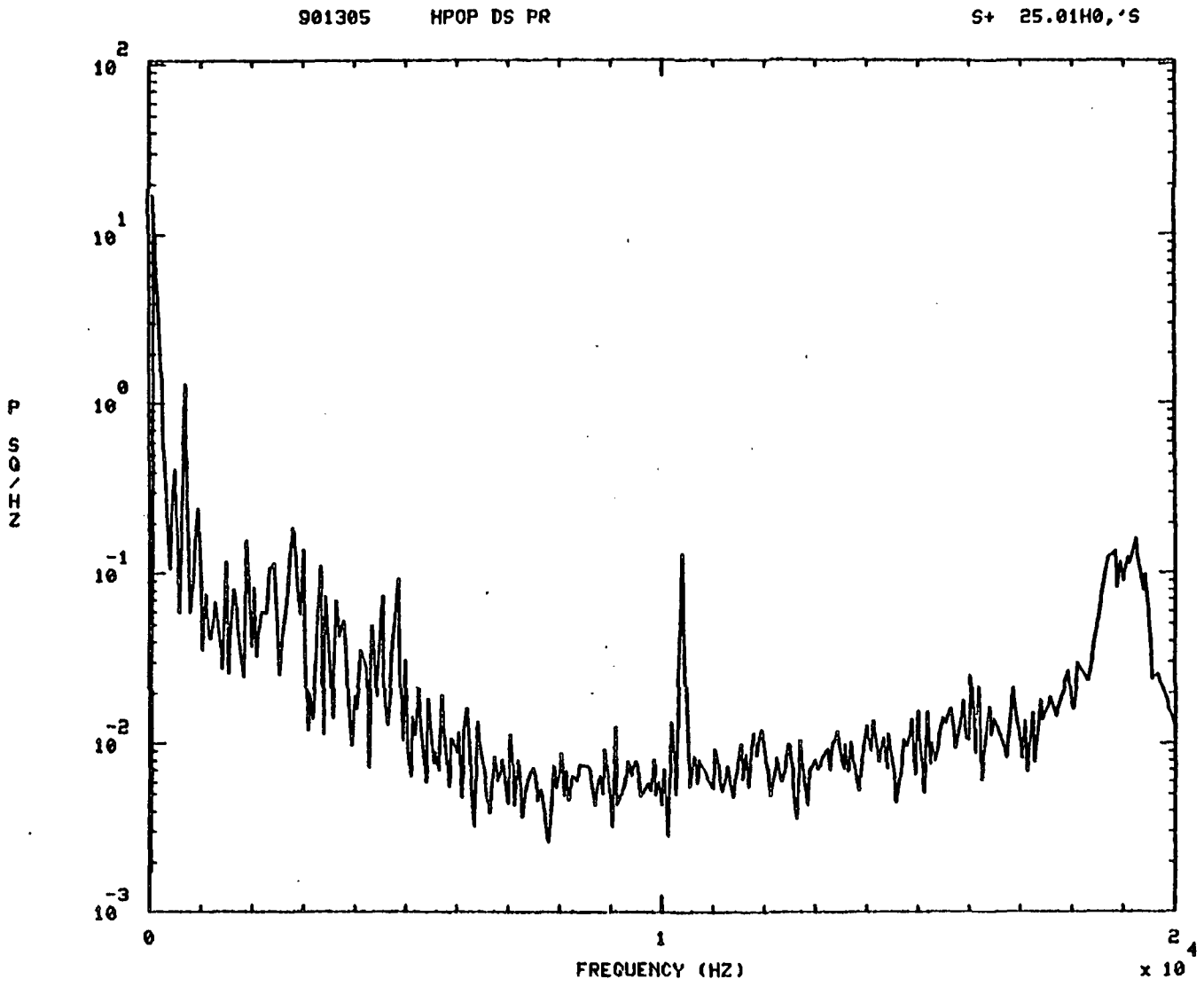

901304 HPOP IN PR
S+ 75.0
P SQ\HZ
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
FREQUENCY (HZ)
x 10^4

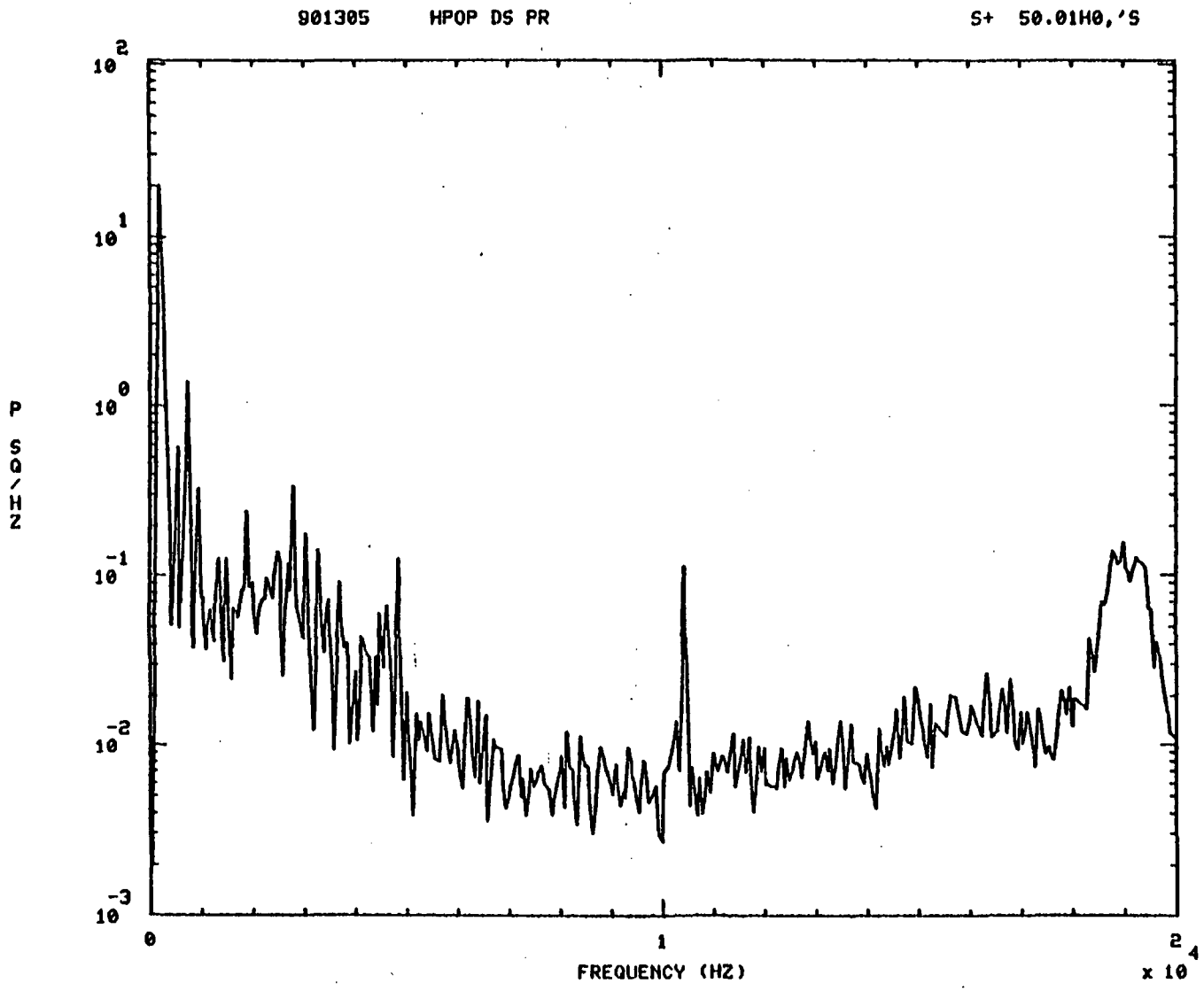

901304 HI LX I PR
S+ 5.01H0,'S
P S Q / H Z
10^-2
10^-3
10^-4
10^-5
10^-6
10^-7
0
1
2
FREQUENCY (HZ)
x 10^4

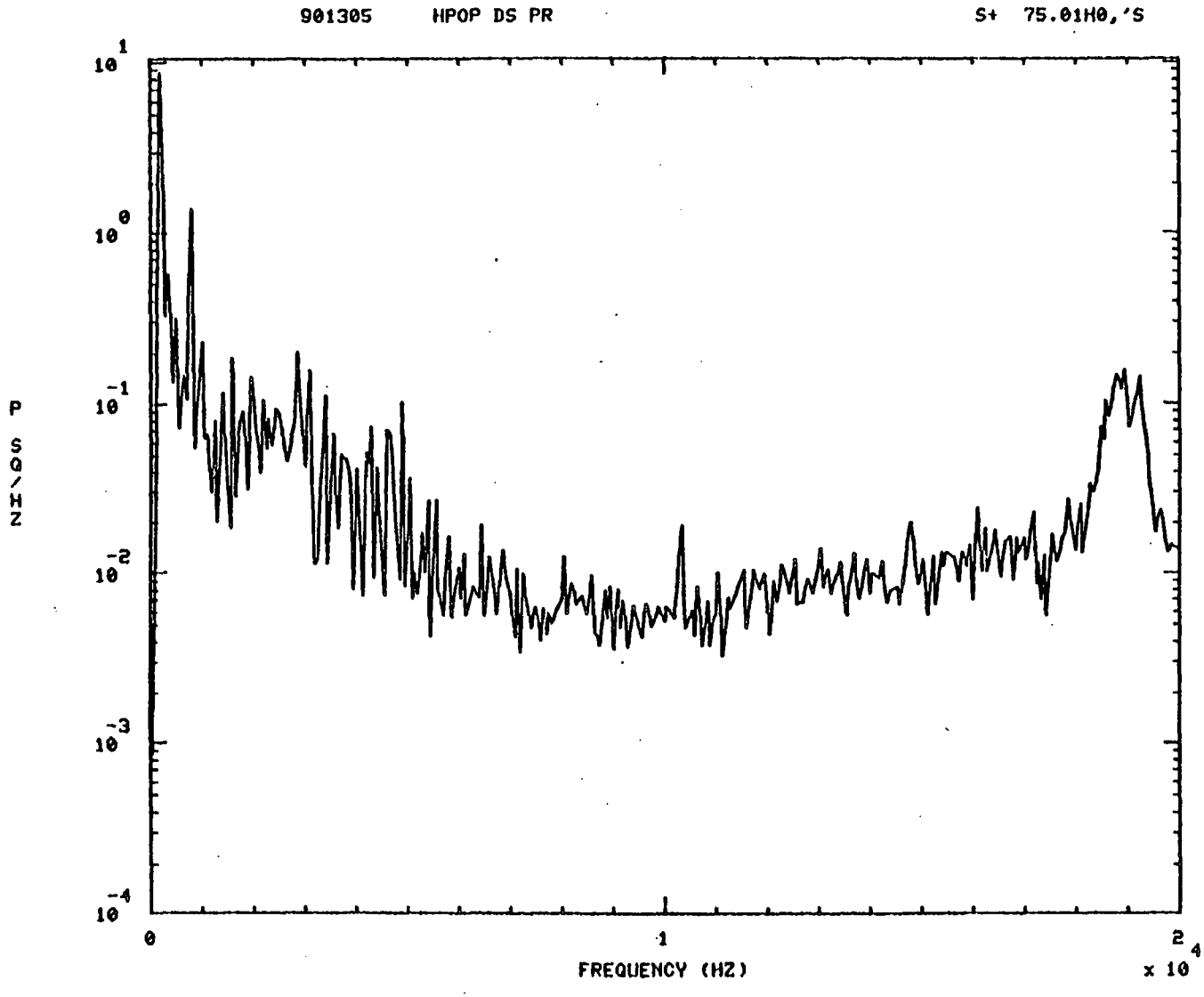

901304 HI LX I PR
S+ 50.01H0,'S
P SQ/HZ
10^-1
10^-2
10^-3
10^-4
10^-5
10^-6
0
1
2
FREQUENCY (HZ)
x 10^4

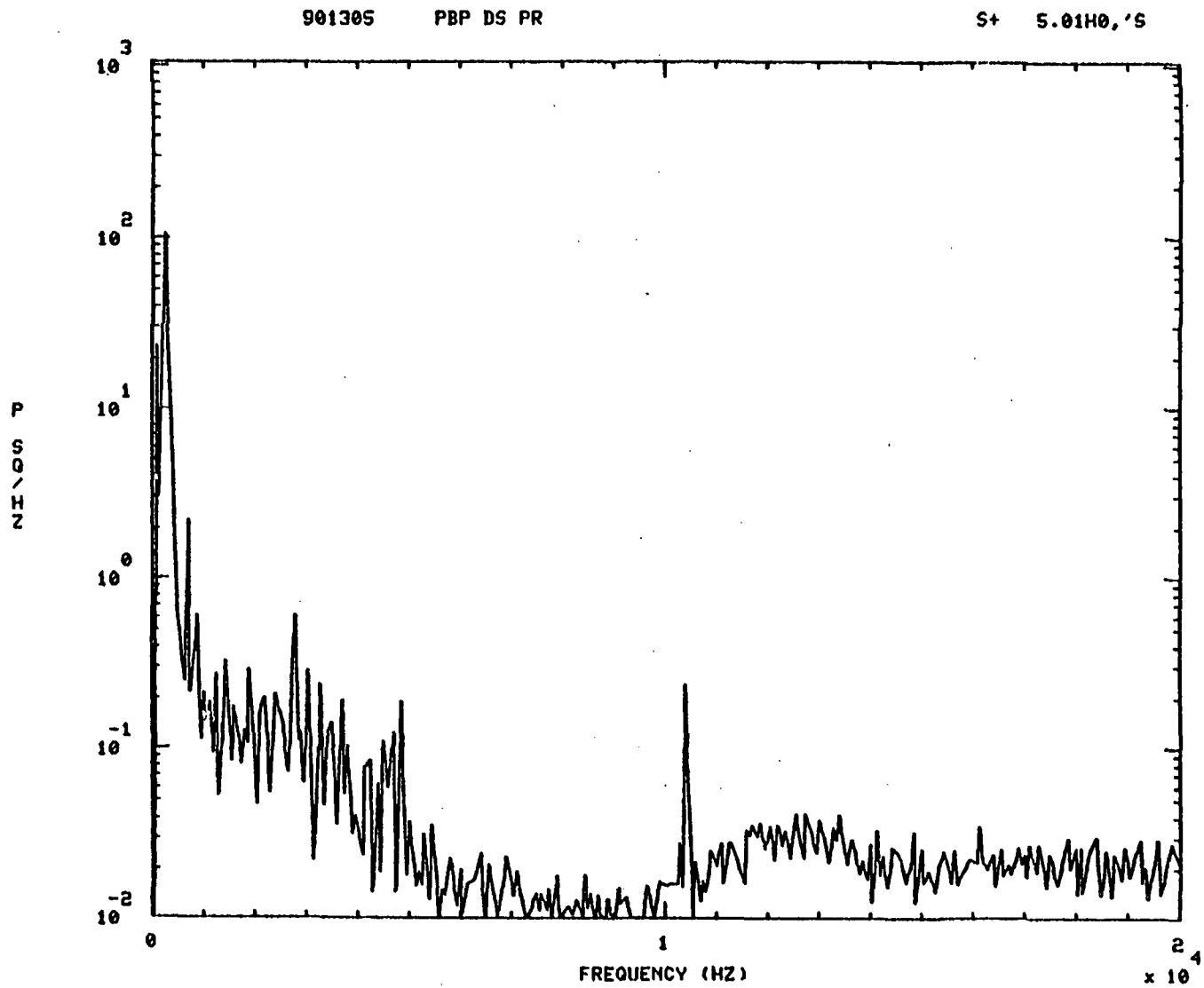

901304 HI LX I PR
S+ 75.01H0,'S
P
S
Q
/
H
Z
10^-1
10^-2
10^-3
10^-4
10^-5
10^-6
0
1
2
FREQUENCY (HZ)
x 10^4

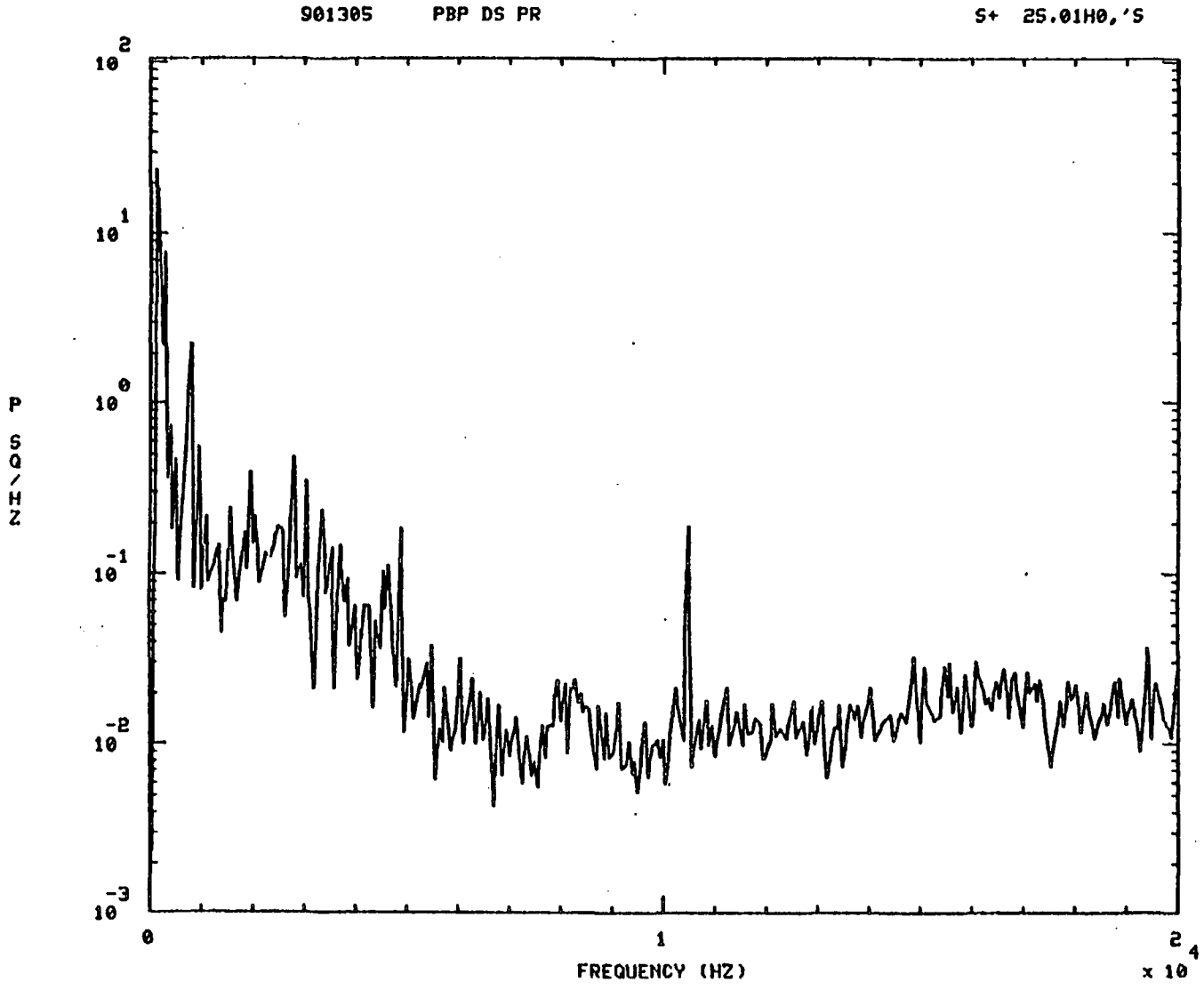

901305 HPOP DS PR
S+ 5.01H0,'S
P S0\HZ
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4

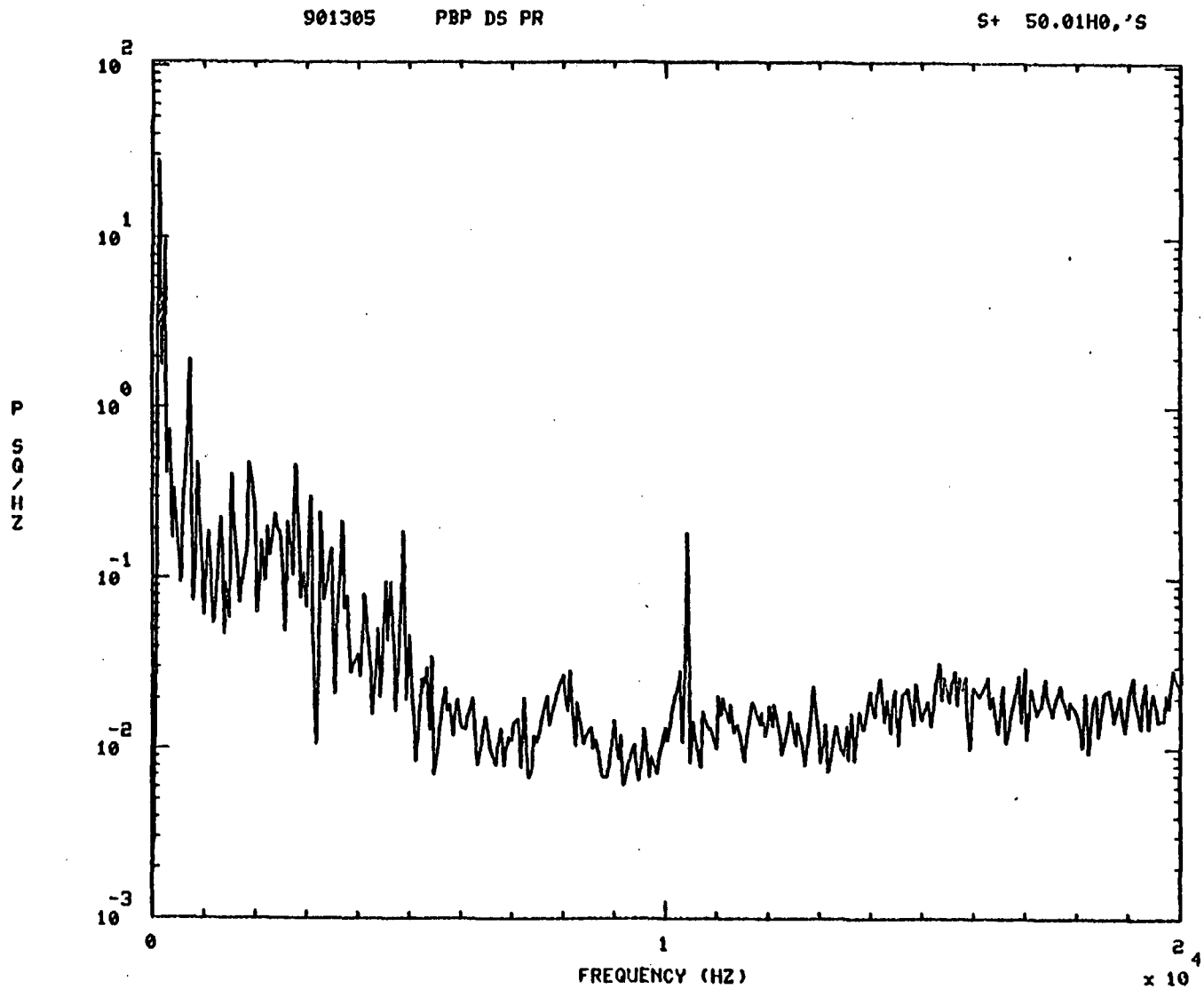

901305 HPOP DS PR
S+ 25.01H0,'S
P S0\HZ
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4

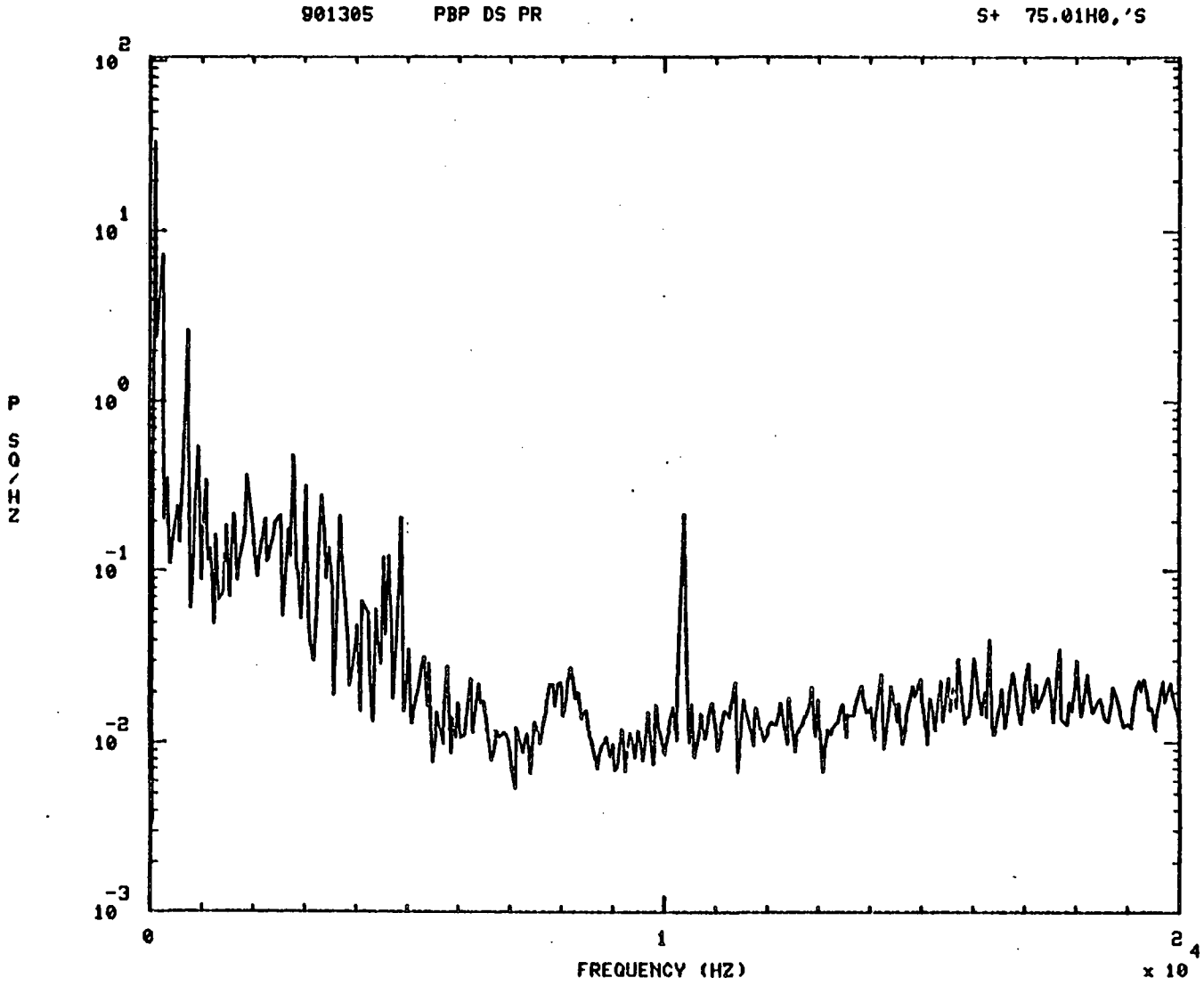

901305 HPOP DS PR
S+ 50.01H0,'S
P S Q / H Z
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4

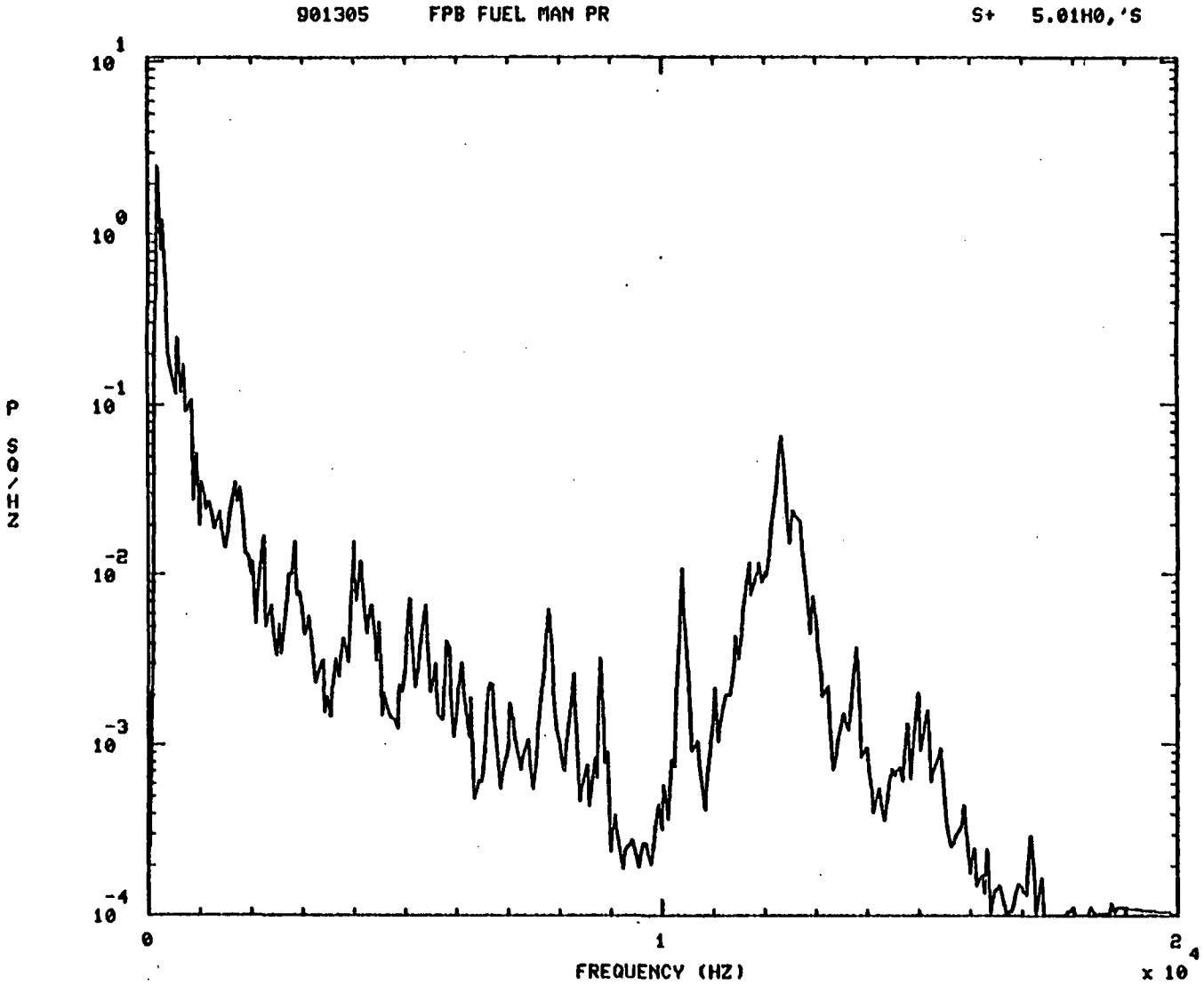

901305 HPOP DS PR
S+ 75.01H0,'S
P SQ\HZ
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
4
x 10
FREQUENCY (HZ)

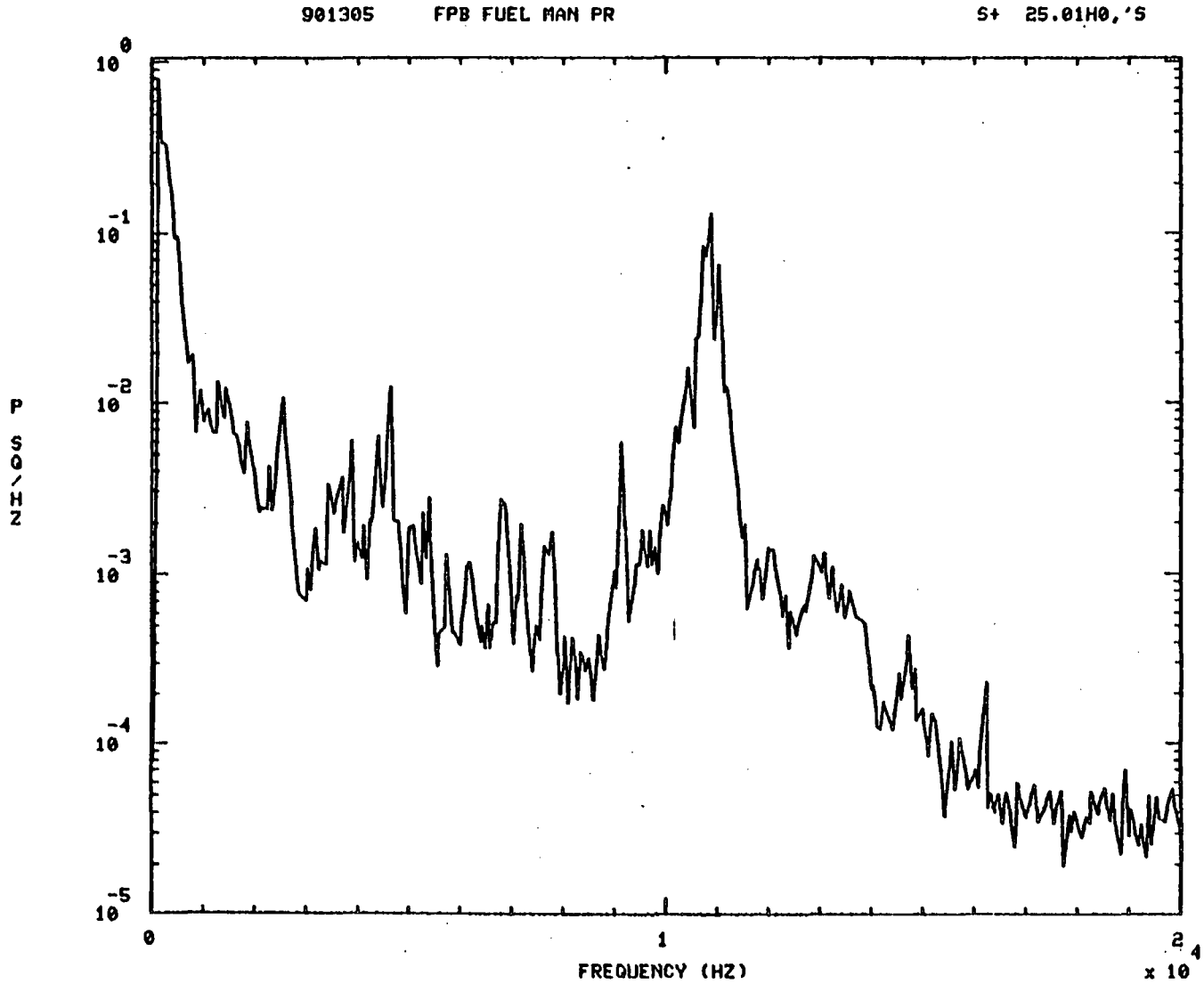

90130S PBP DS PR
S+ 5.01H0,'S
10^3
10^2
10^1
10^0
10^{-1}
10^{-2}
P
S
Q
/
H
Z
0
1
2
FREQUENCY (HZ)
x 10^4


901305 PBP DS PR
S+ 25.01H0,'S
P S Q / H Z
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4


901305 PBP DS PR
S+ 50.01H0,'S
P S Q / H Z
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4


901305 PBP DS PR
S+ 75.01H0,'S
P
S
Q
/
H
Z
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4


901305 FPB FUEL MAN PR
S+ 5.01H0,'S
P SQ/HZ
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
FREQUENCY (HZ)
x 10^4


901305 FPB FUEL MAN PR
S+ 25.01H0,'S
P SQ\HZ
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10^-1
10^-2
10^-3
10^-4
10^-5
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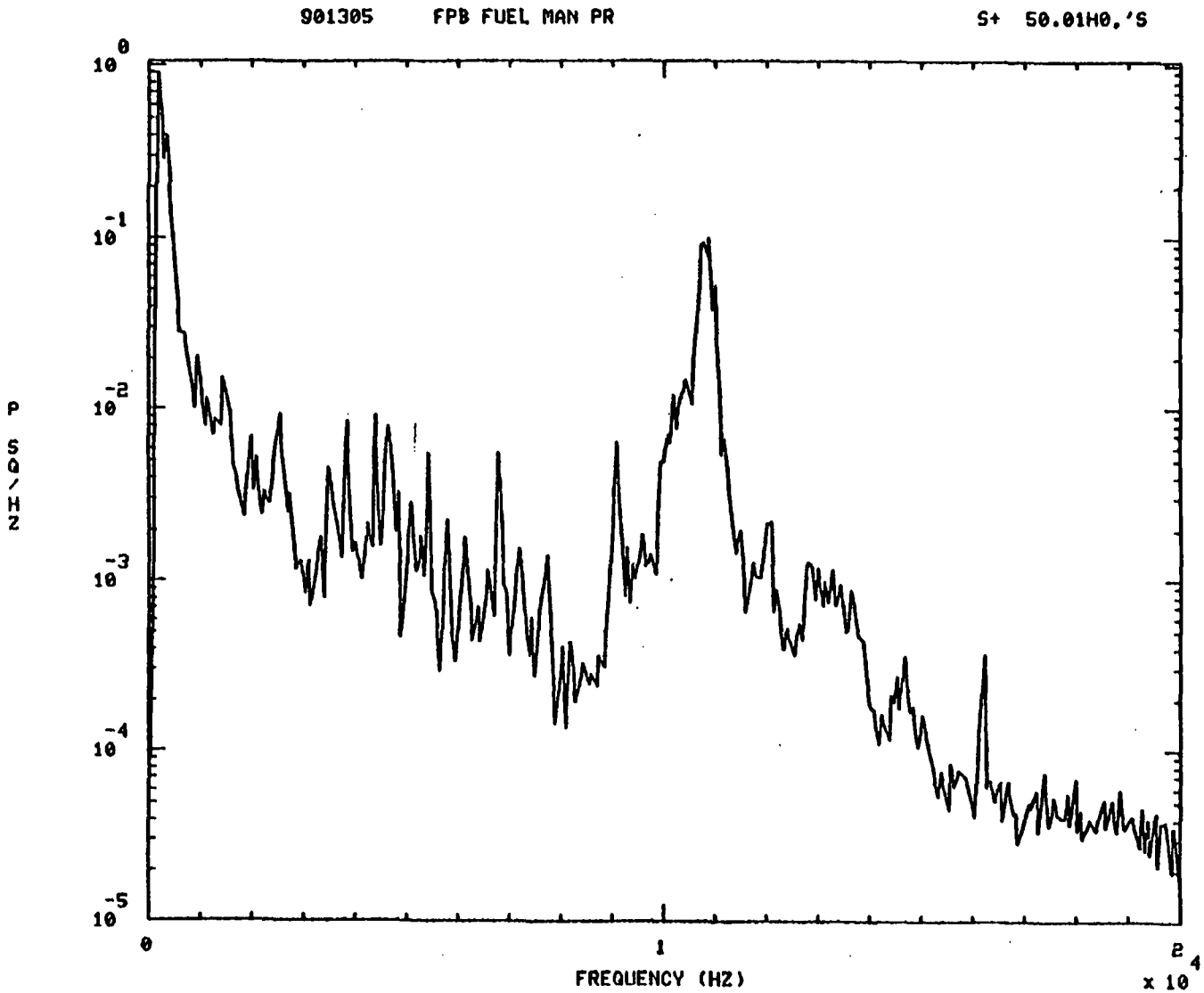
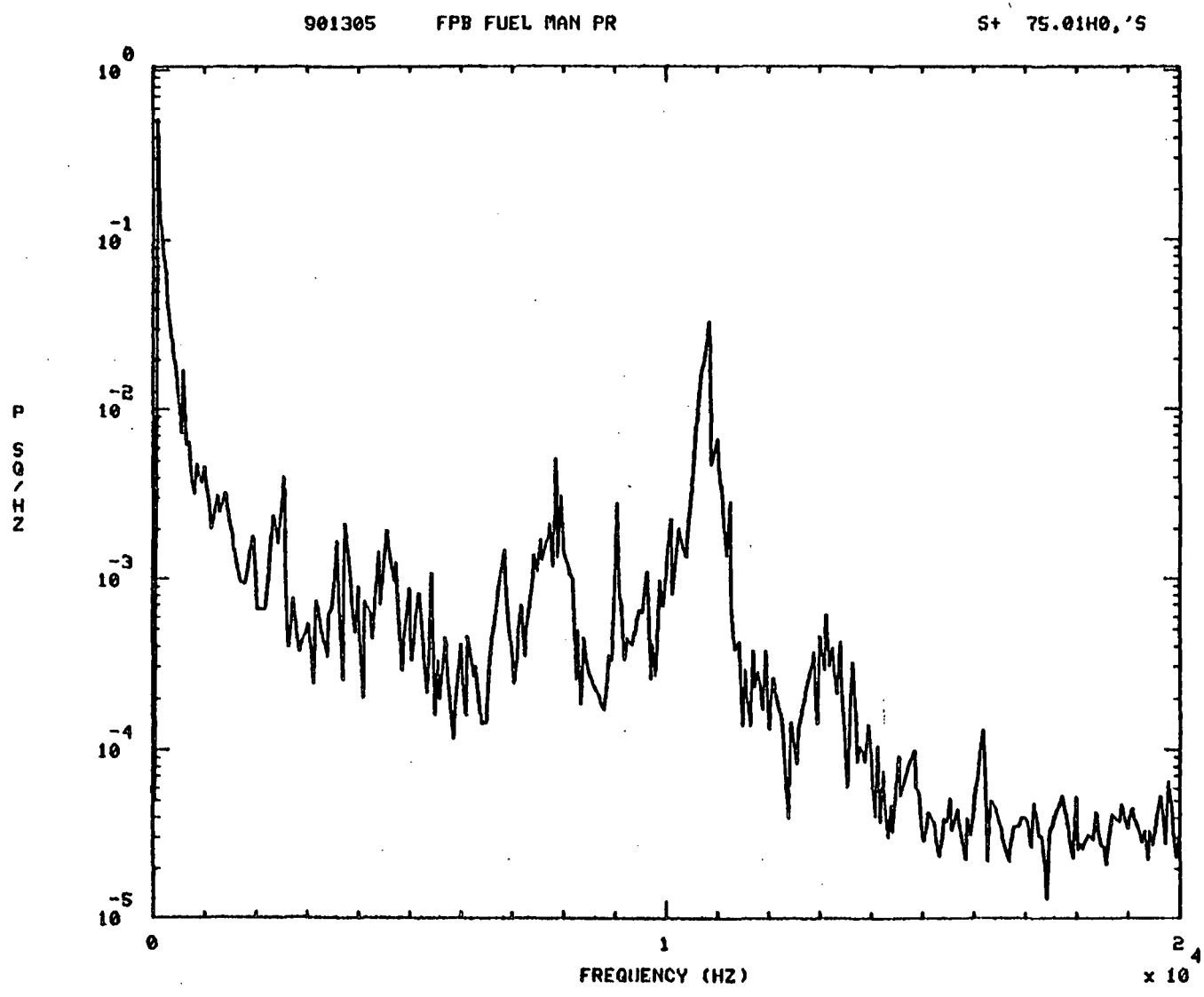
1
2
FREQUENCY (HZ)
x 10^4


901305 FPB FUEL MAN PR
S+ 50.01H0,'S
P SQ\HZ
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
FREQUENCY (HZ)
x 10^4


901305 FPB FUEL MAN PR
S+ 75.01H0,'S
PSD/HZ
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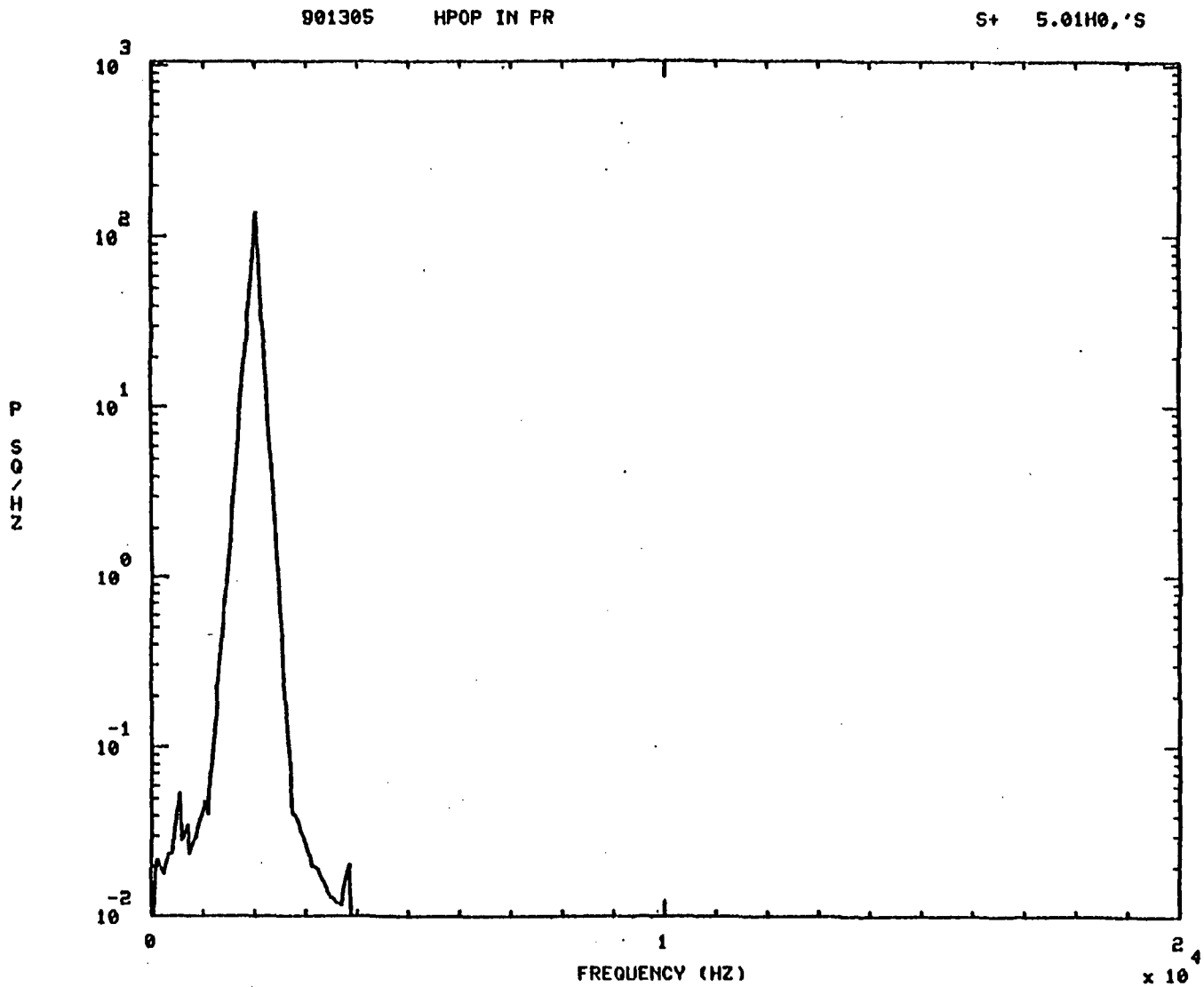
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
FREQUENCY (HZ)
x 10^4


901305 HPOP IN PR
S+ 5.01H0,'S
P S Q / H Z
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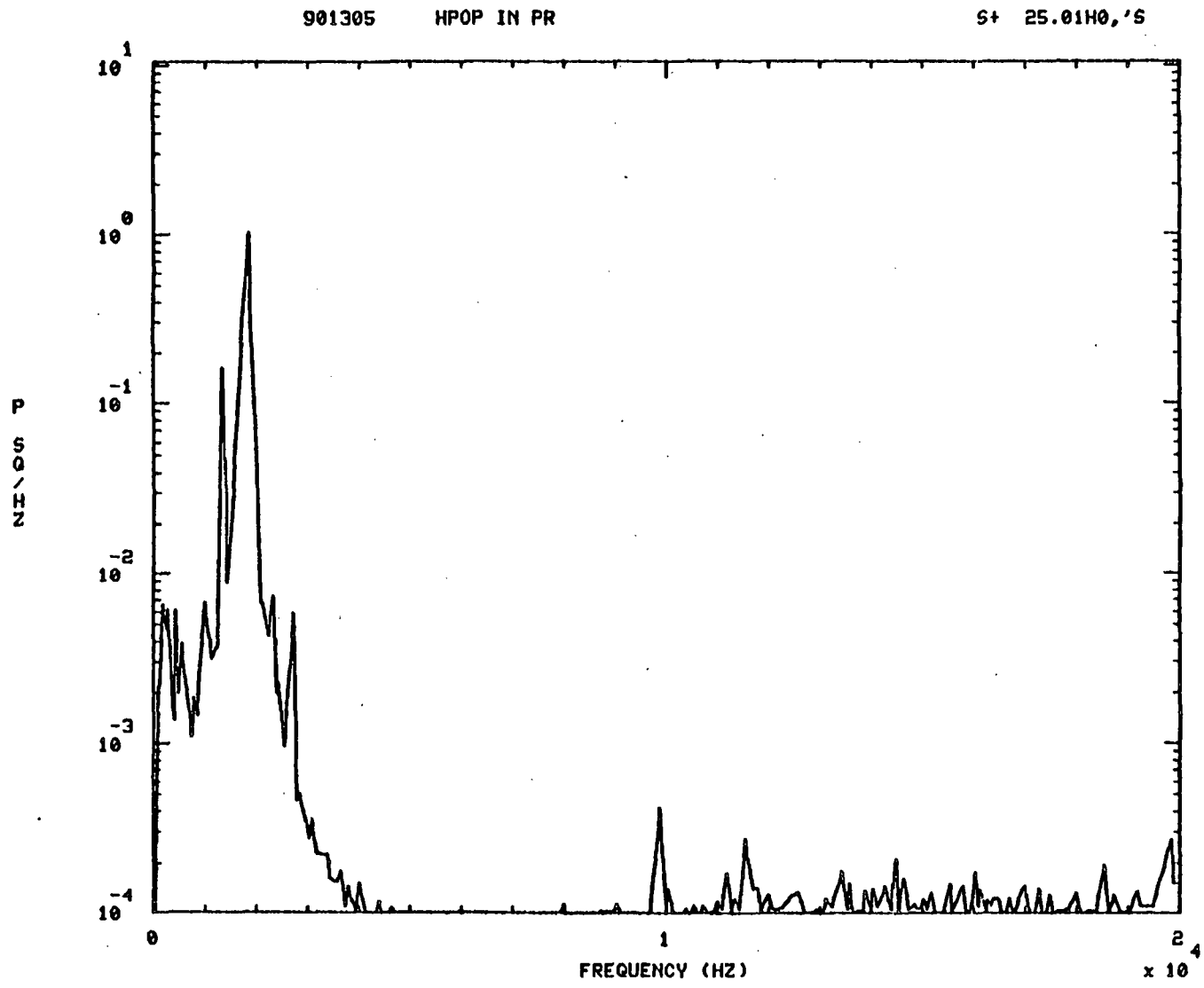
10^2
10^1
10^0
10^-1
10^-2
0
1
2
FREQUENCY (HZ)
x 10^4


901305 HPOP IN PR
S+ 25.01H0,'S
P SQ\HZ
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10^0
10^-1
10^-2
10^-3
10^-4
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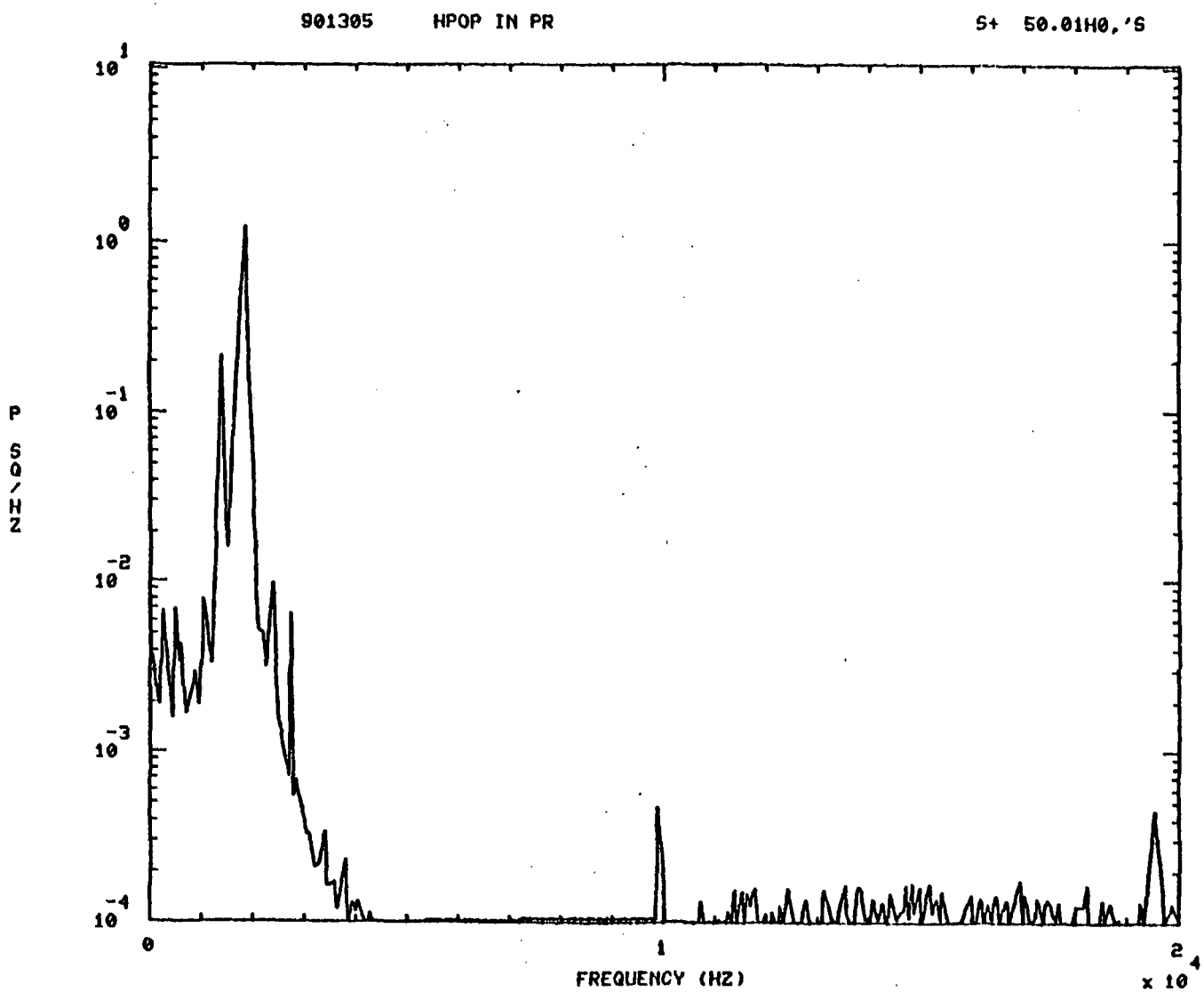
1
2
4
FREQUENCY (HZ)
x 10


901305 HPOP IN PR
S+ 50.01H0,'S
P S Q / H Z
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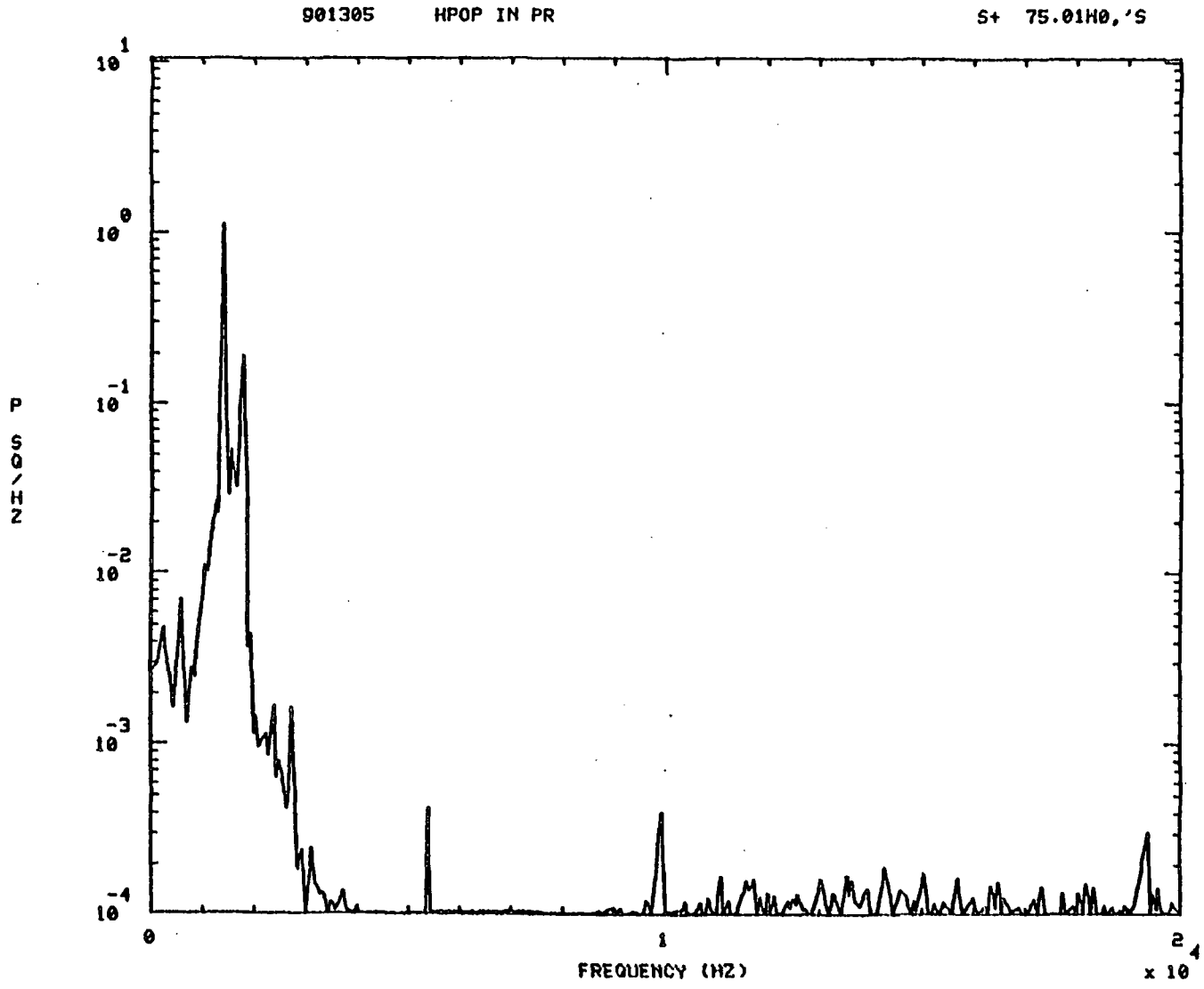
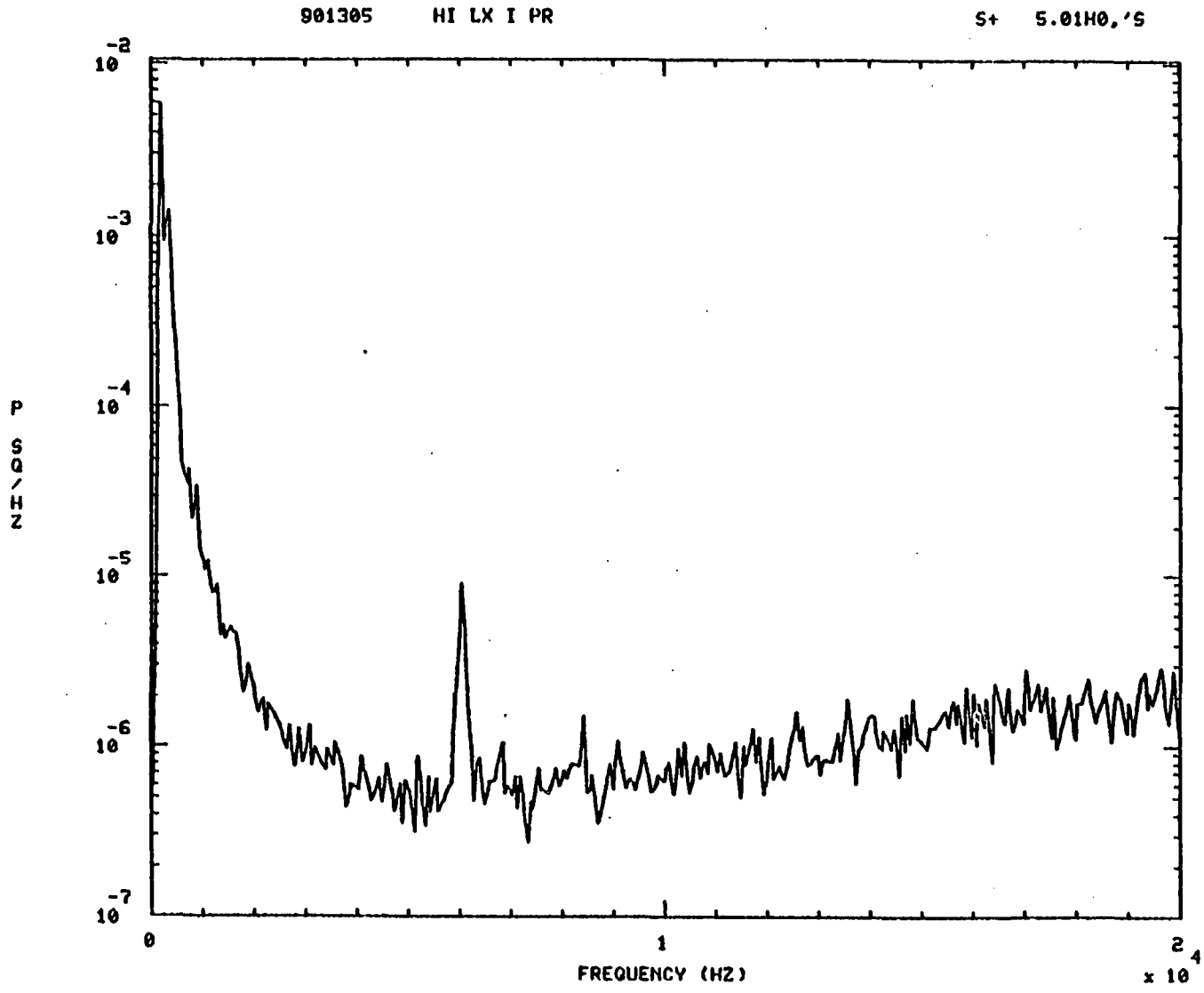
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
FREQUENCY (HZ)
x 10^4


901305 HPOP IN PR
S+ 75.01H0,'S
P S Q / H Z
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
FREQUENCY (HZ)
x 10^4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P SQ\HZ
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10^-3
10^-4
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10^-6
10^-7
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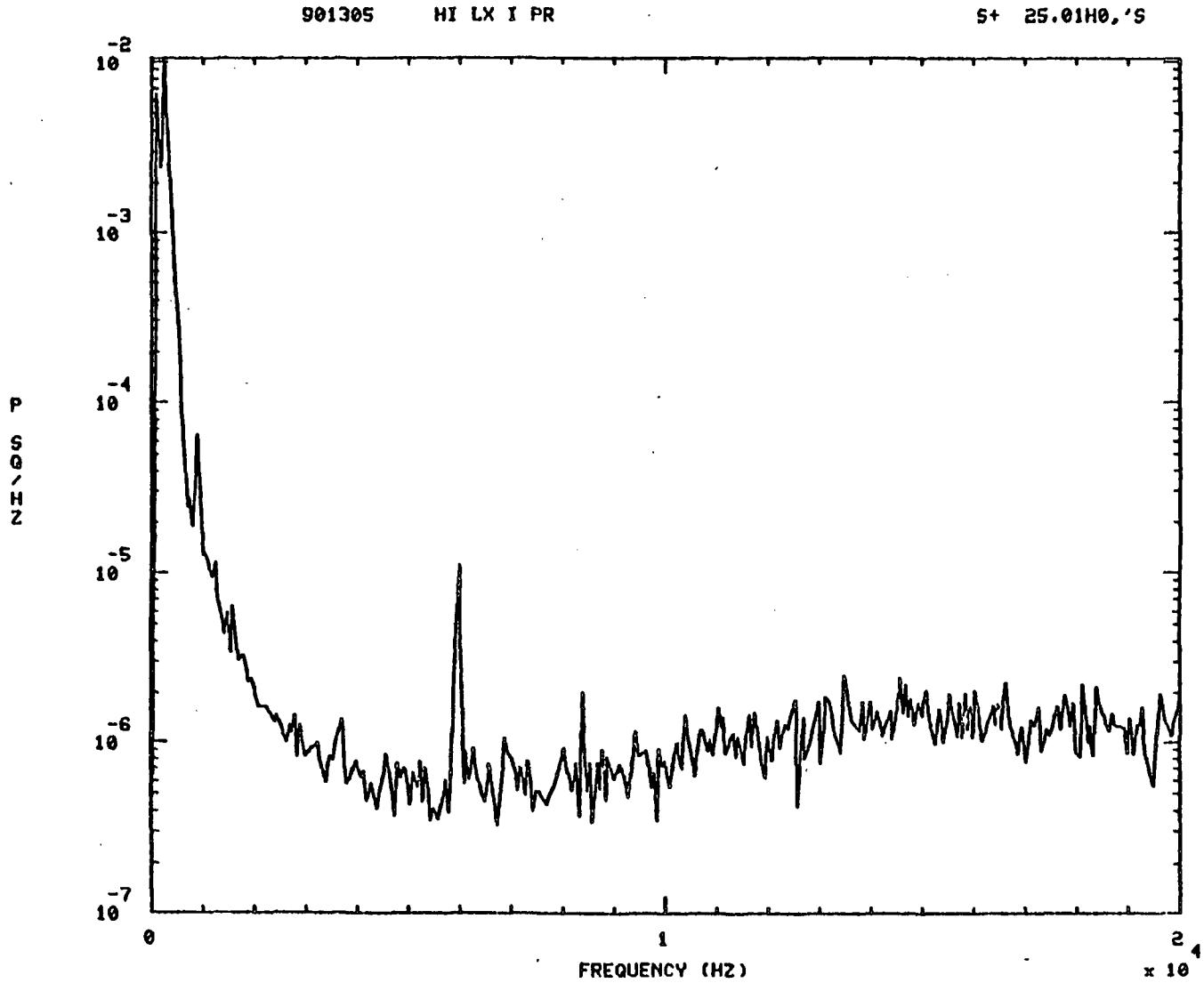
FREQUENCY (HZ)
x 10^4


901305 HI LX I PR
S+ 25.01H0,'S
P
S
Q
/
H
Z
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10^-4
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10^-6
10^-7
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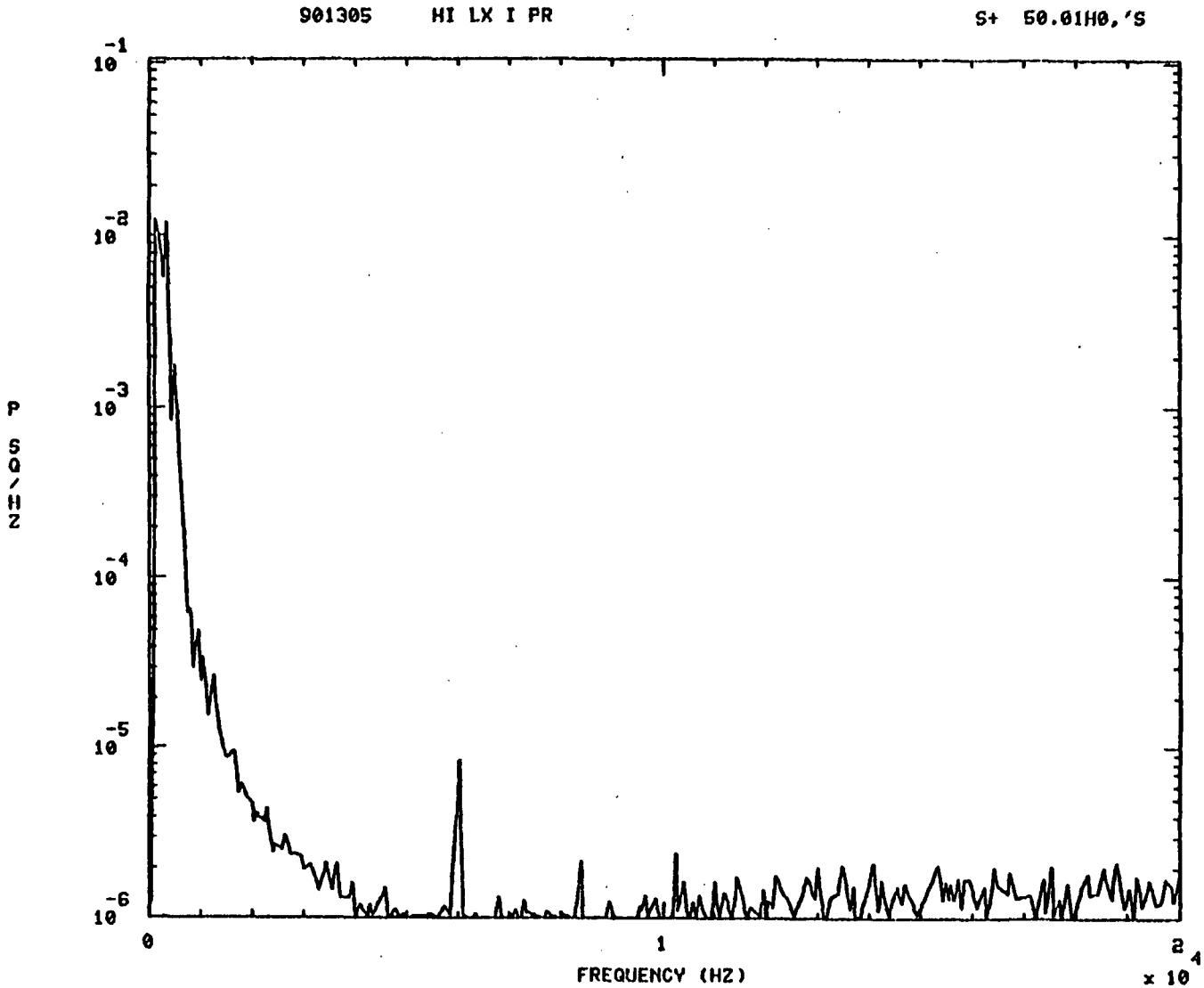
1
2
FREQUENCY (HZ)
x 10^4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S+ 50.01H0,'S
P SQ/HZ
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10^-2
10^-3
10^-4
10^-5
10^-6
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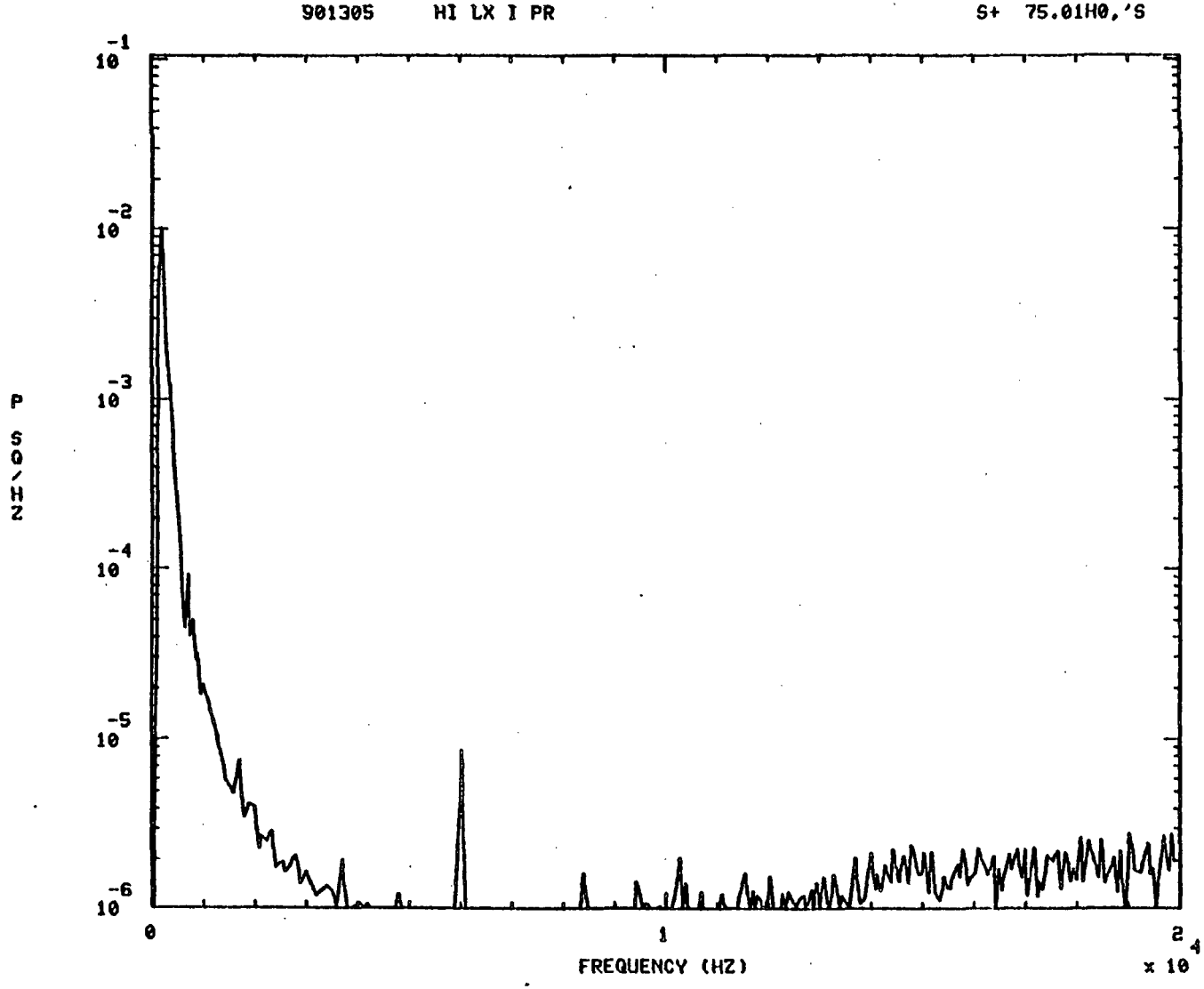
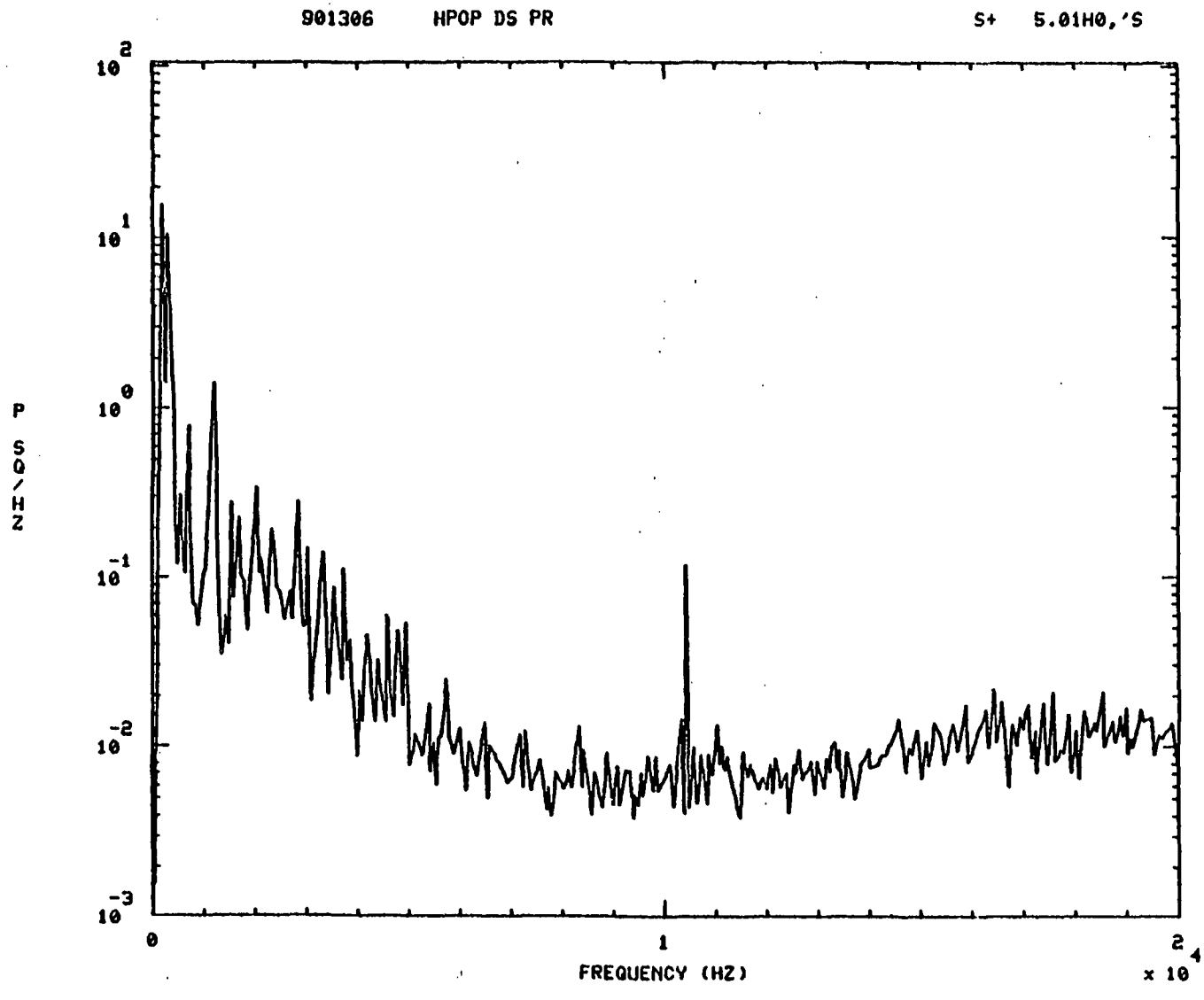
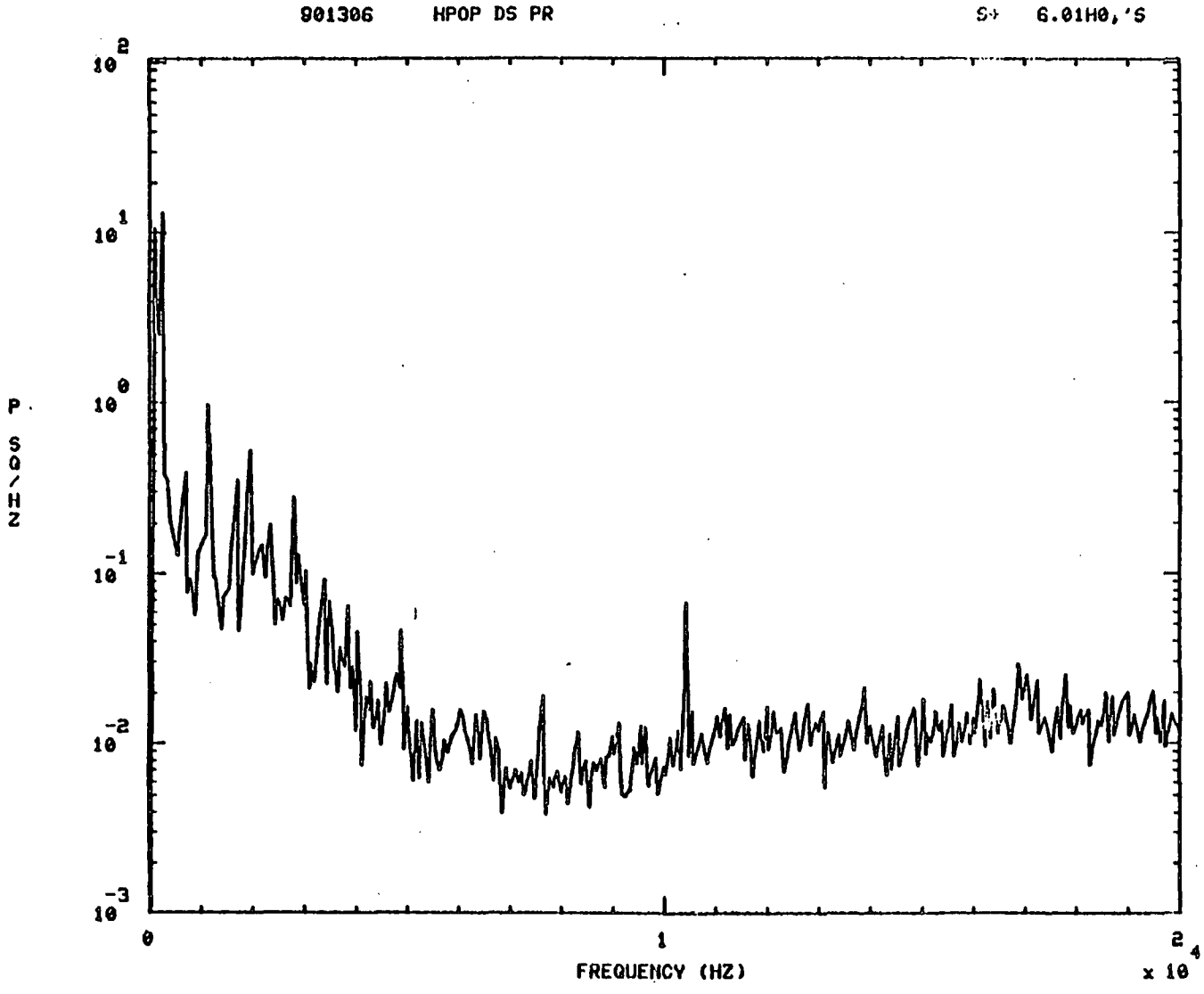
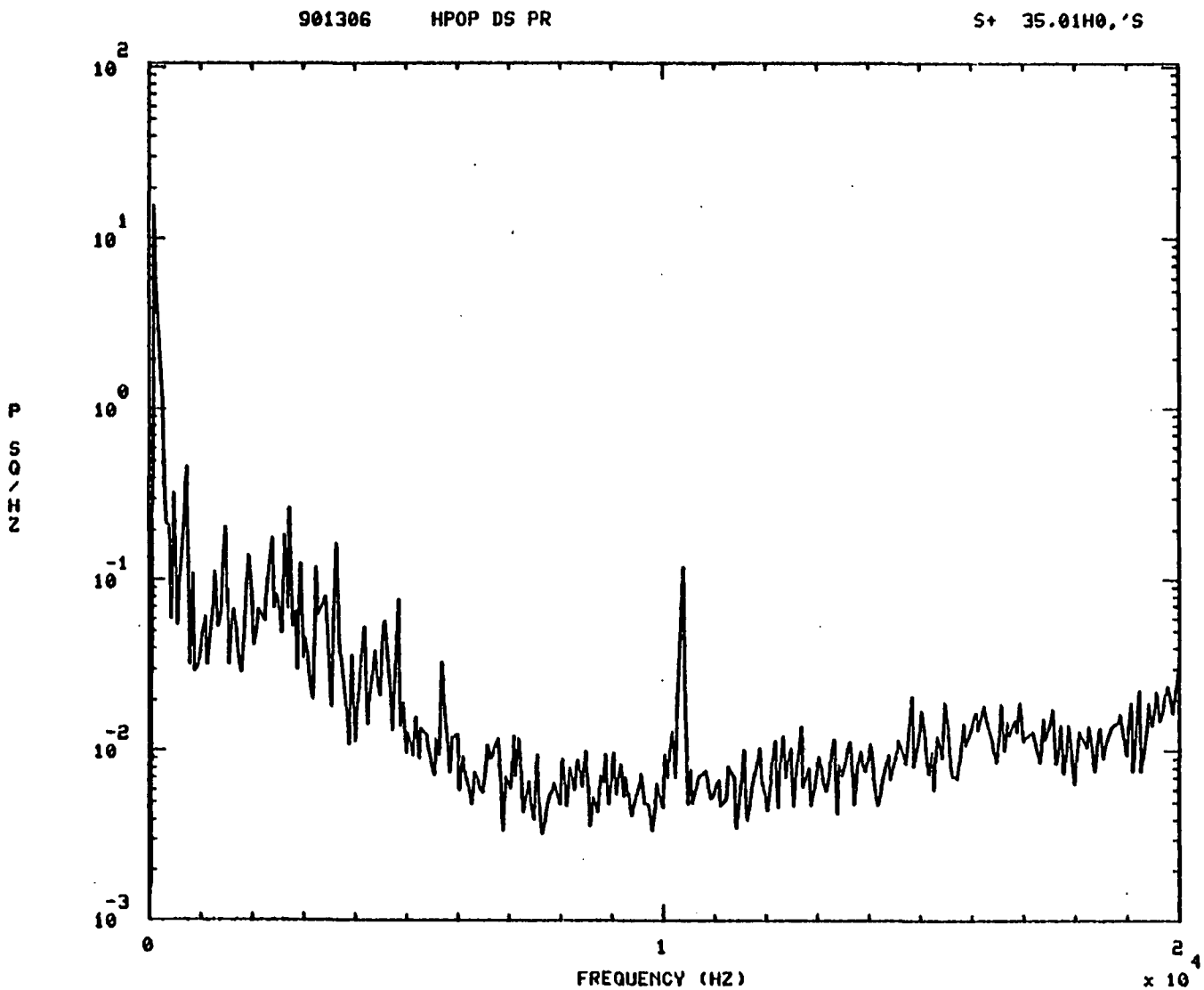
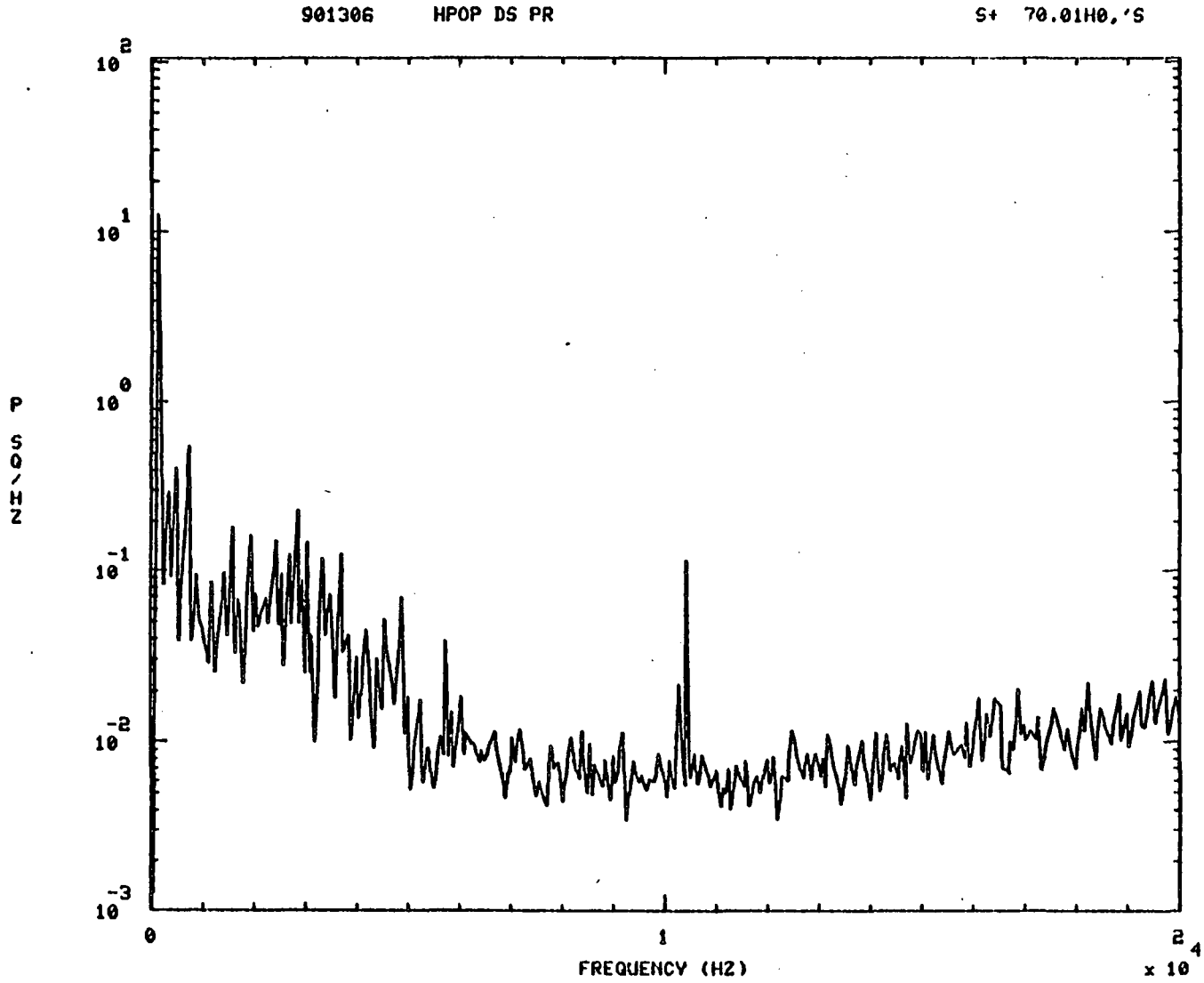
1
2
FREQUENCY (HZ)
x 10^4

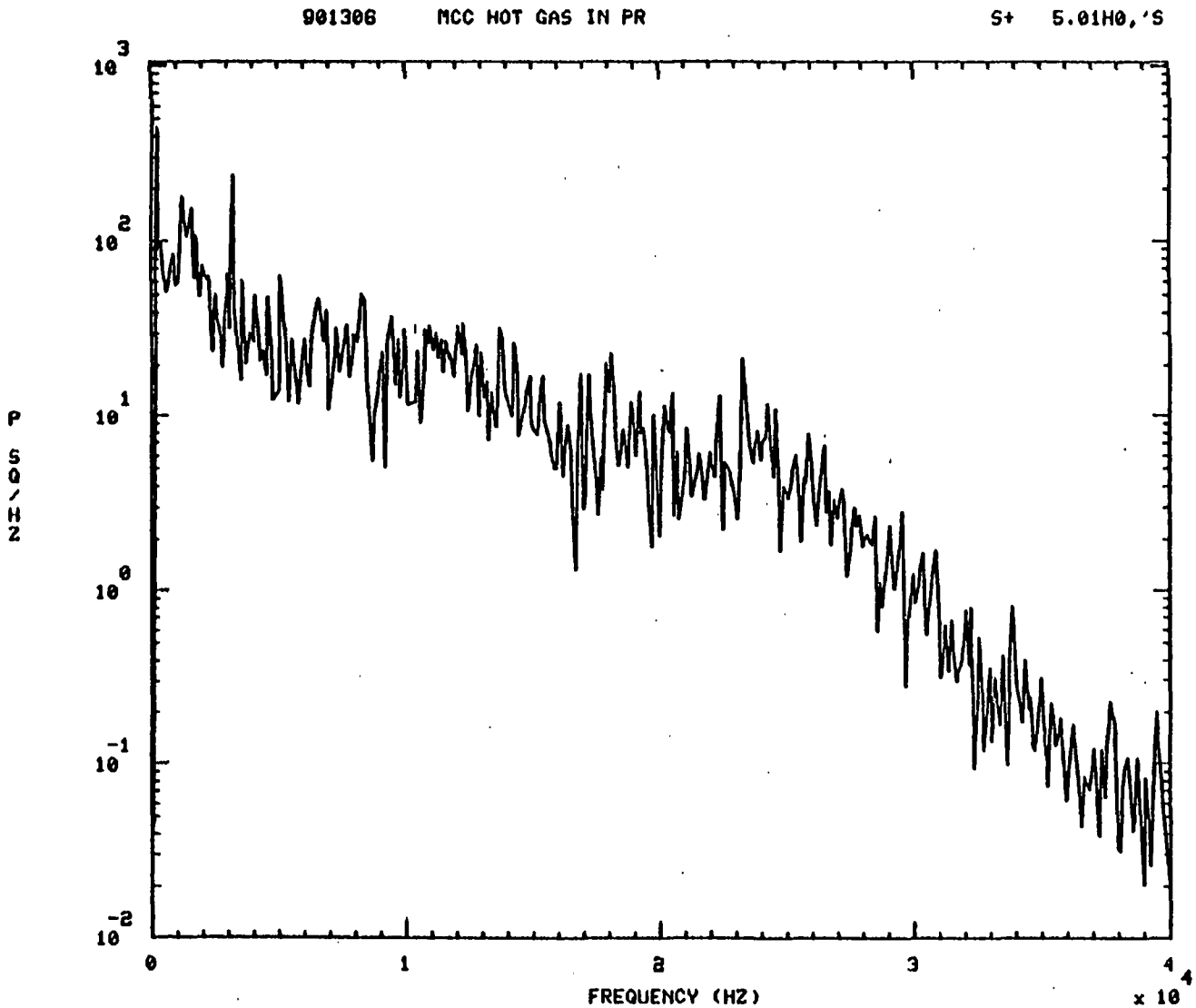

901305 HI LX I PR
S+ 75.01H0,'S
P S0\HZ
10^-1
10^-2
10^-3
10^-4
10^-5
10^-6
0
1
2
FREQUENCY (HZ)
x 10^4

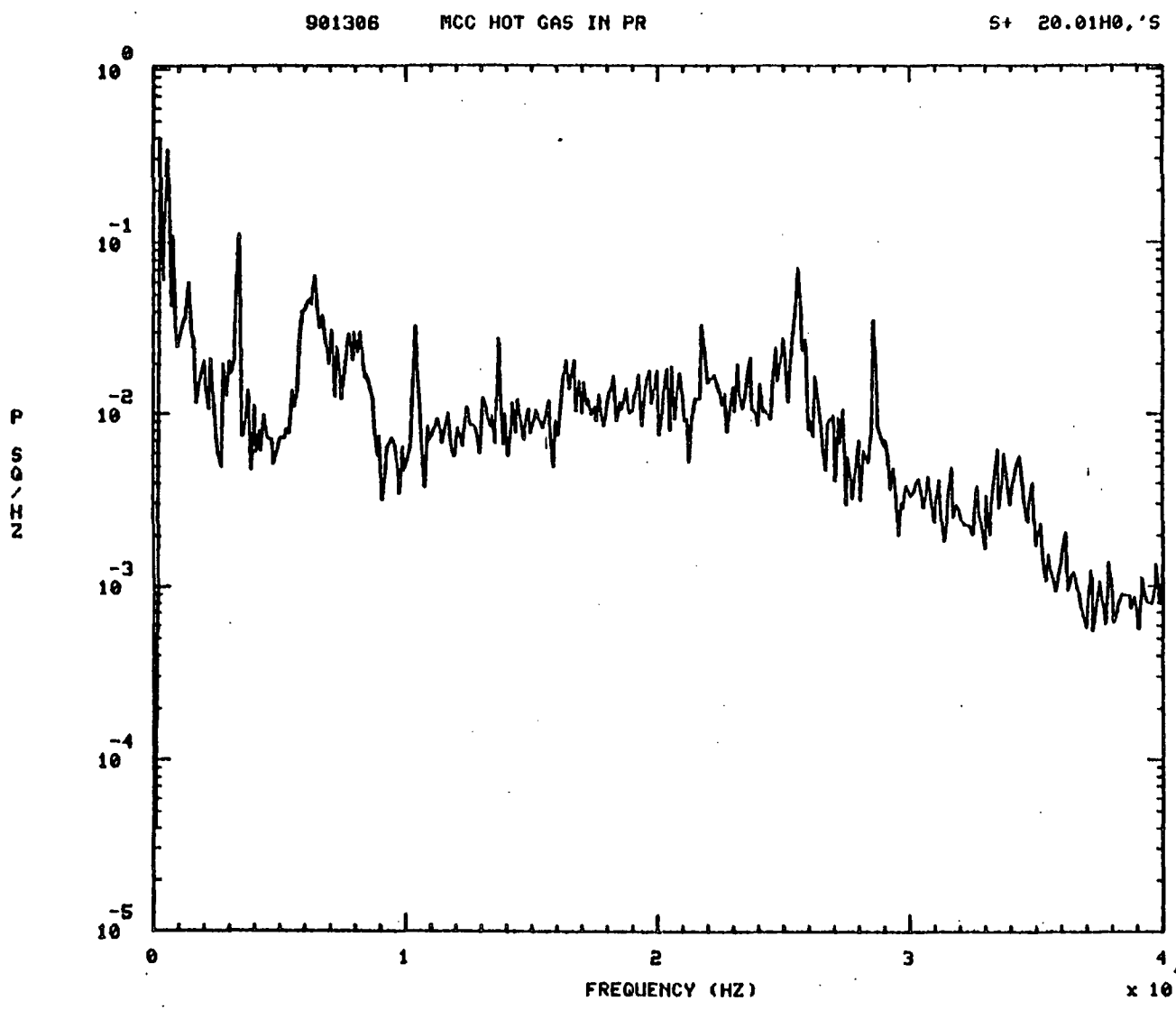

901306 HPOP DS PR
S+ 5.01H0,'S
P S Q \ H Z
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4

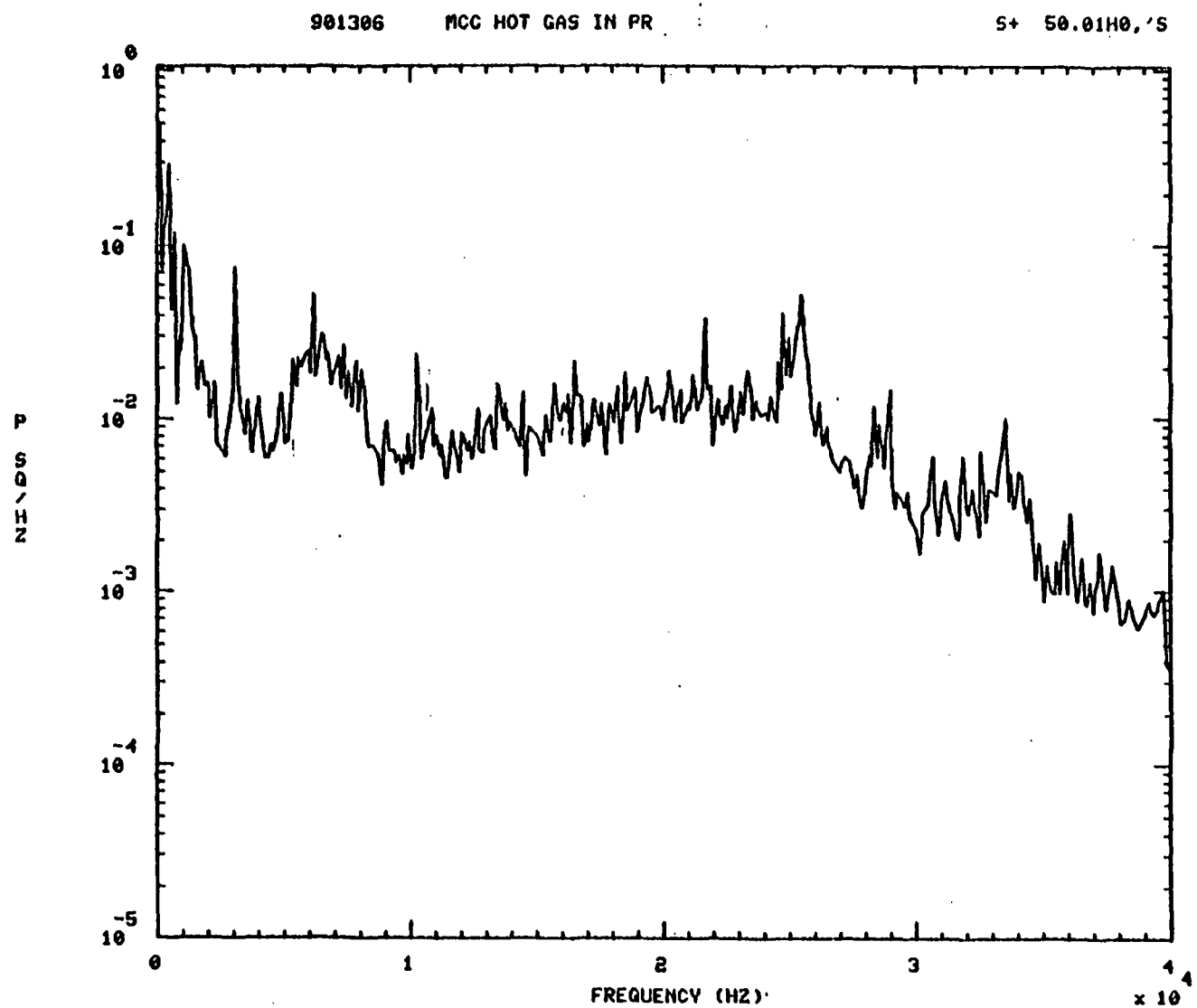

901306 HPOP DS PR
S→ 6.01H0,'S
P
S
Q
\
H
Z
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4

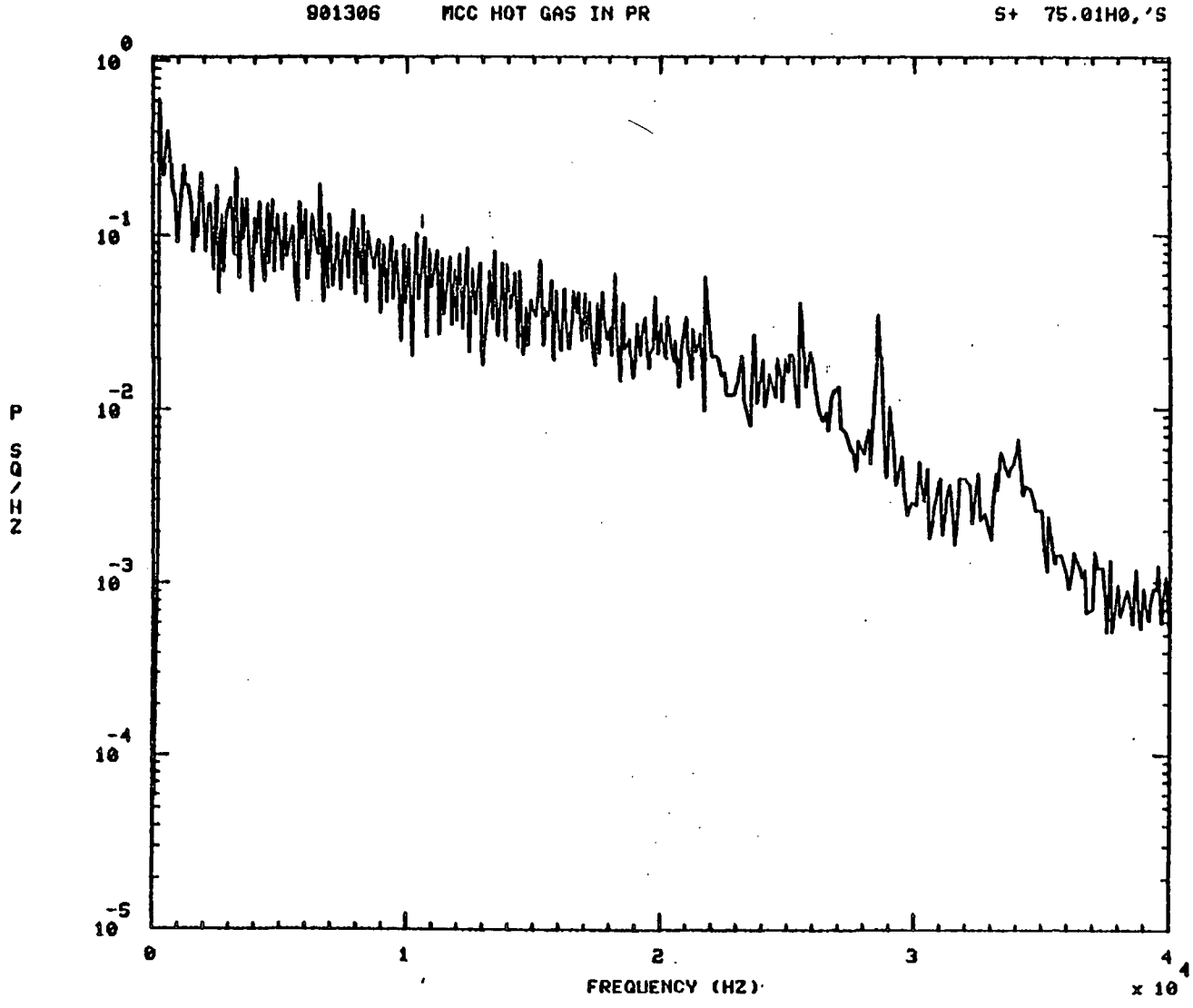

901306 HPOP DS PR
S+ 35.01H0,'S
P S Q \ H Z
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4

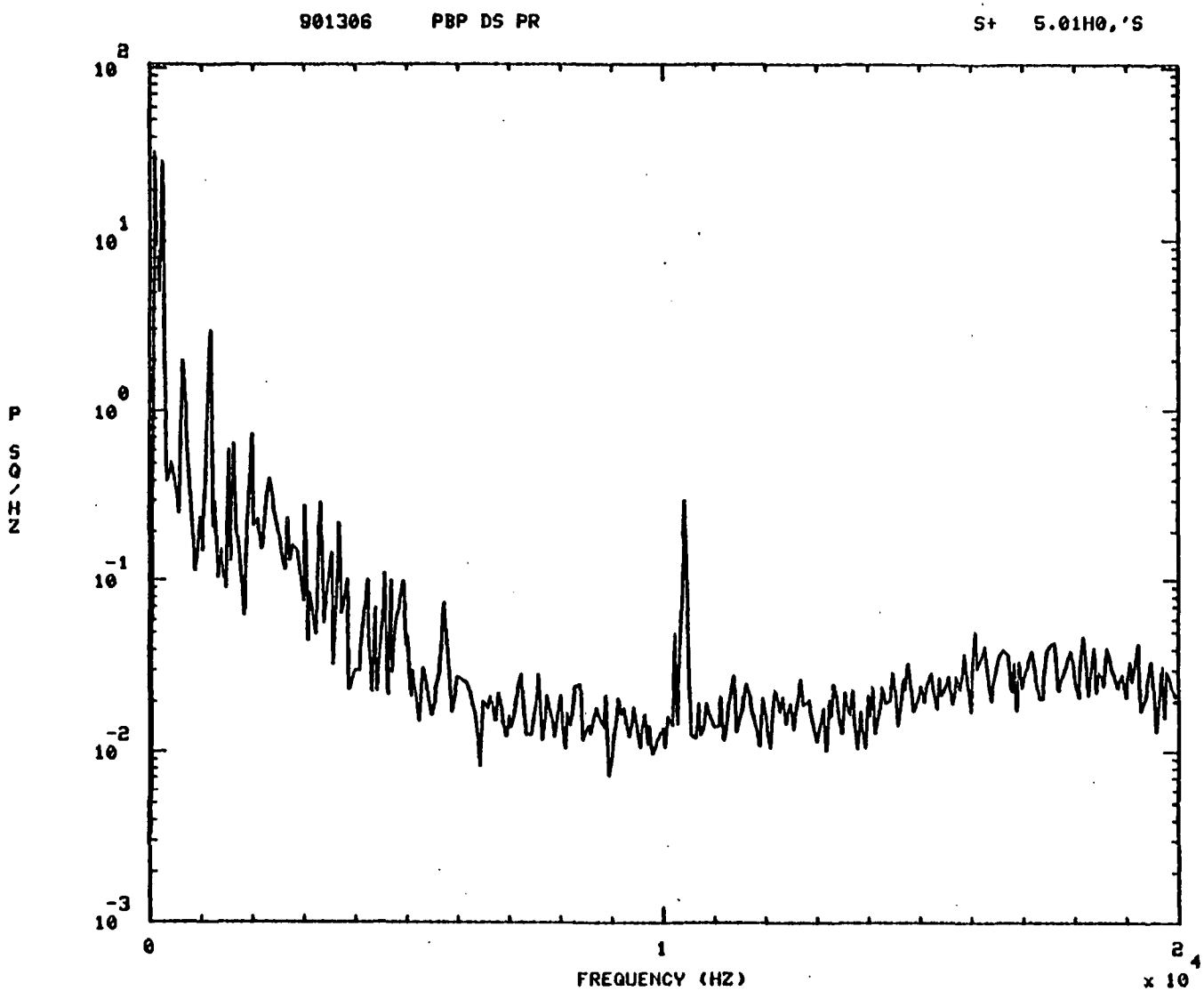

901306 HPOP DS PR
S+ 70.01H0,'S
P
S
Q
/
H
Z
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4


901306 MCC HOT GAS IN PR
S+ 5.01H0,'S
P SQ/HZ
10^3
10^2
10^1
10^0
10^-1
10^-2
0
1
2
3
4
FREQUENCY (HZ)
x 10^4


901306 MCC HOT GAS IN PR
S+ 20.01H0,'S
P S Q \ H Z
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
3
4
FREQUENCY (HZ)
x 10^4


901306 MCC HOT GAS IN PR
S+ 50.01H0,'S
P SQ\HZ
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
3
4
FREQUENCY (HZ)
x 10^4


901306 MCC HOT GAS IN PR
S+ 75.01H0,'S
P SQ\HZ
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
3
4
FREQUENCY (HZ)
x 10^4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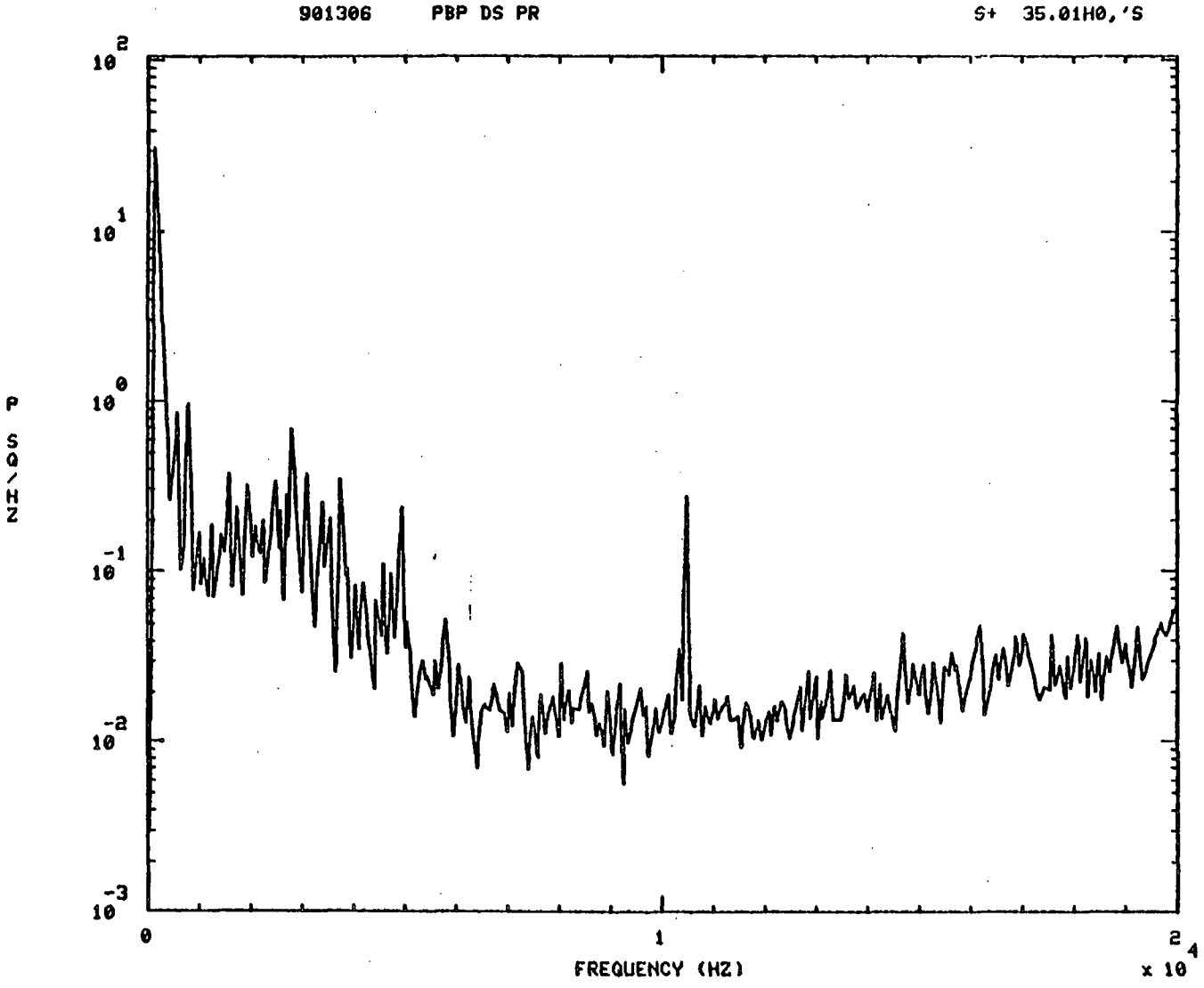
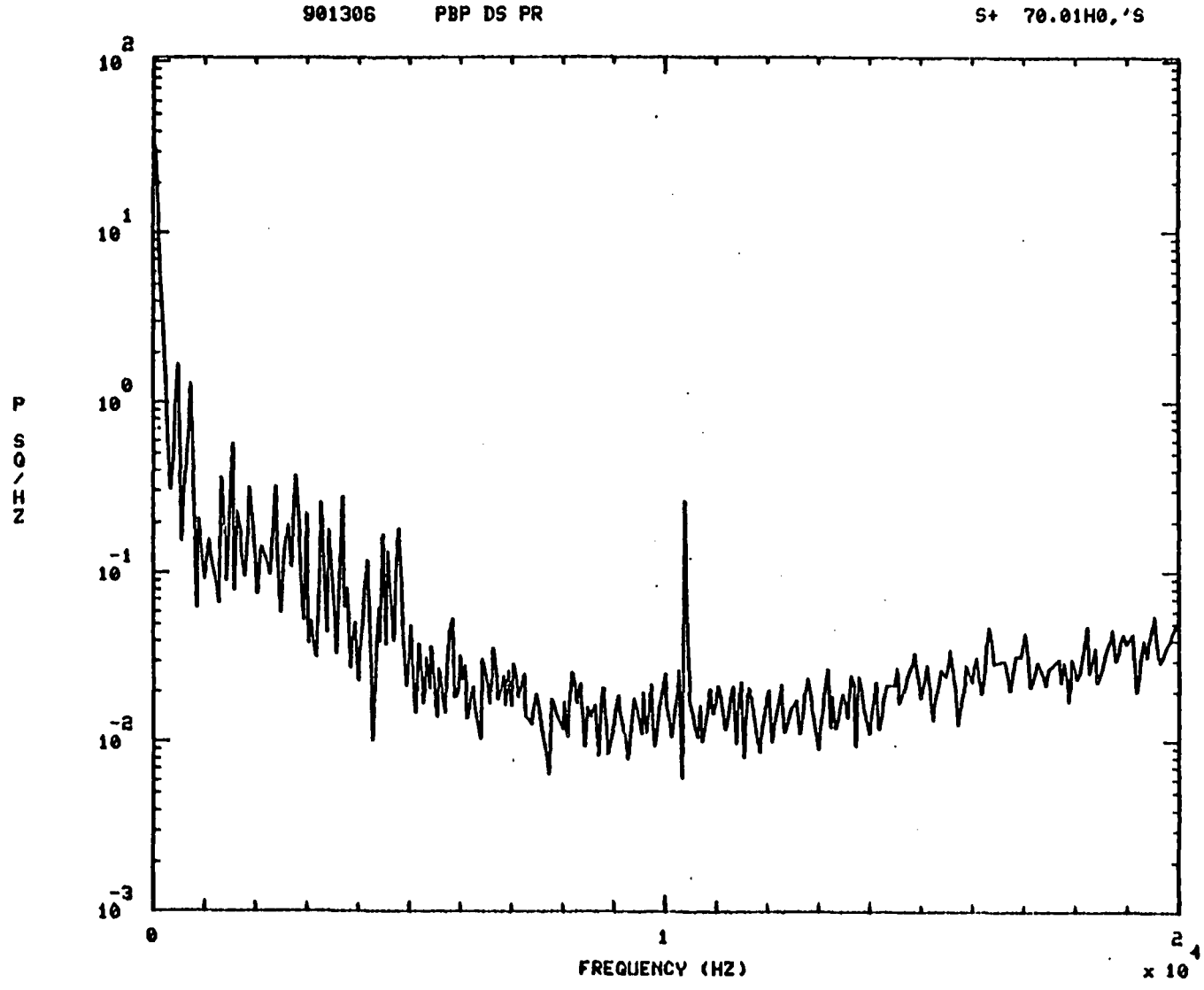
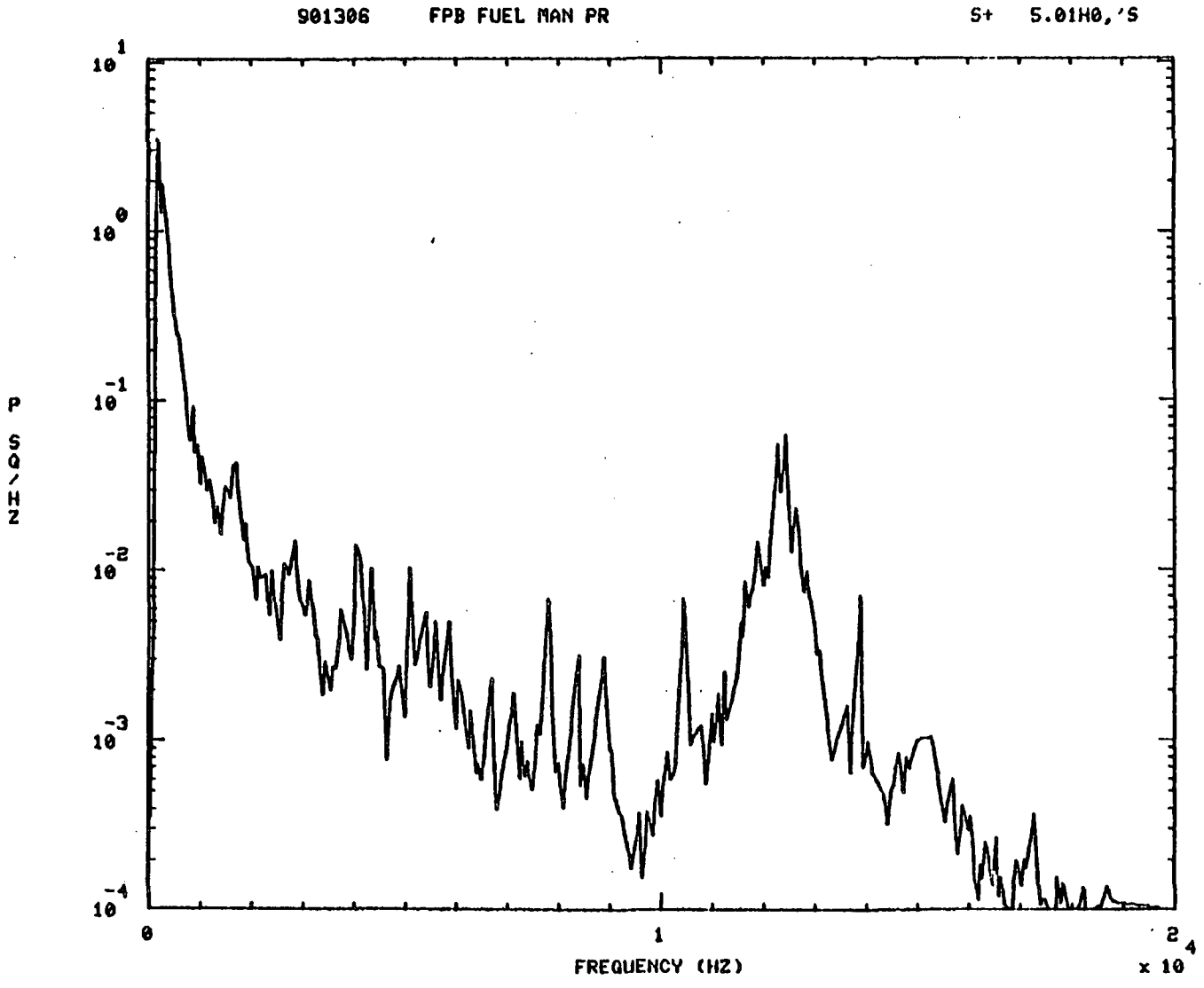
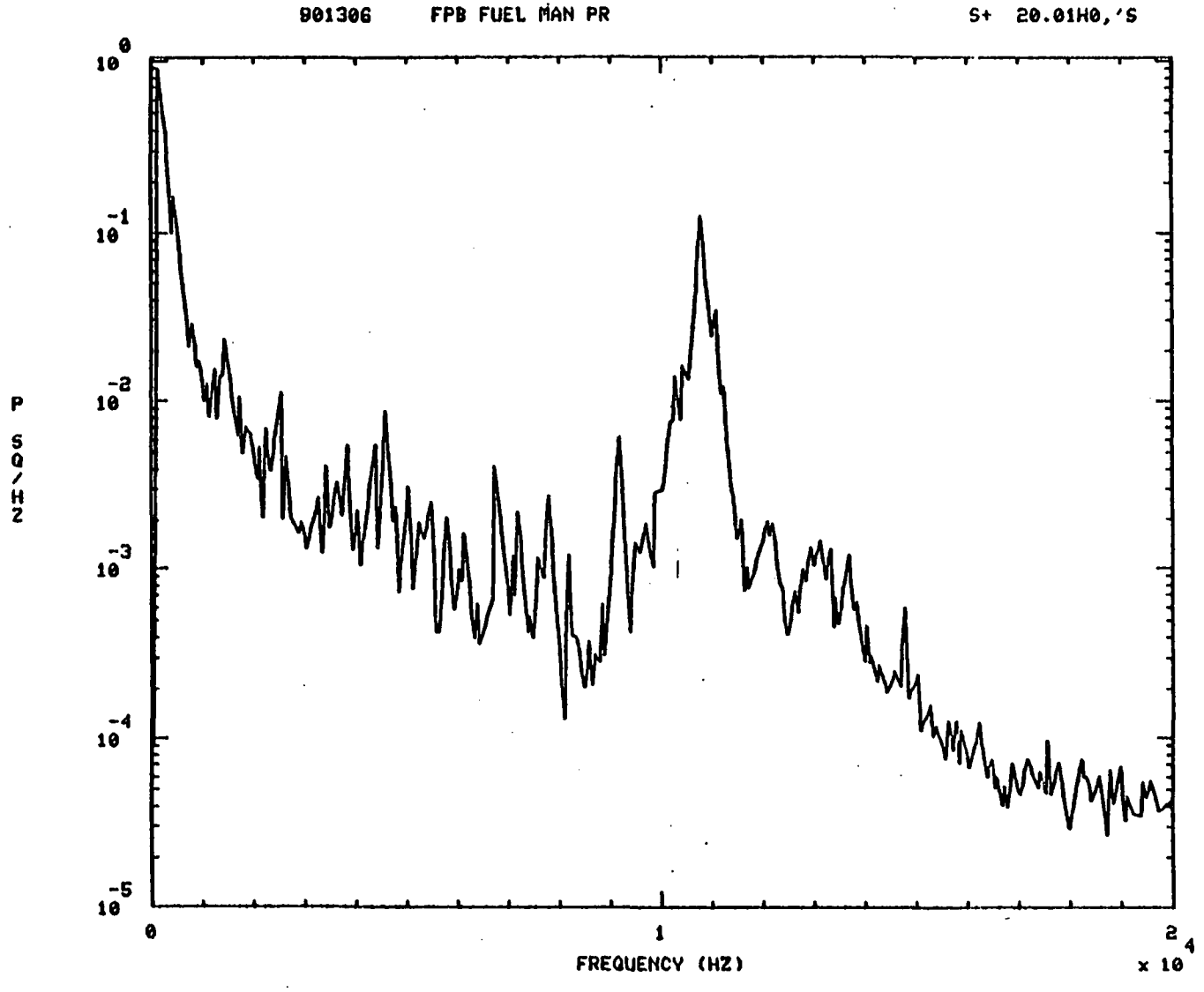
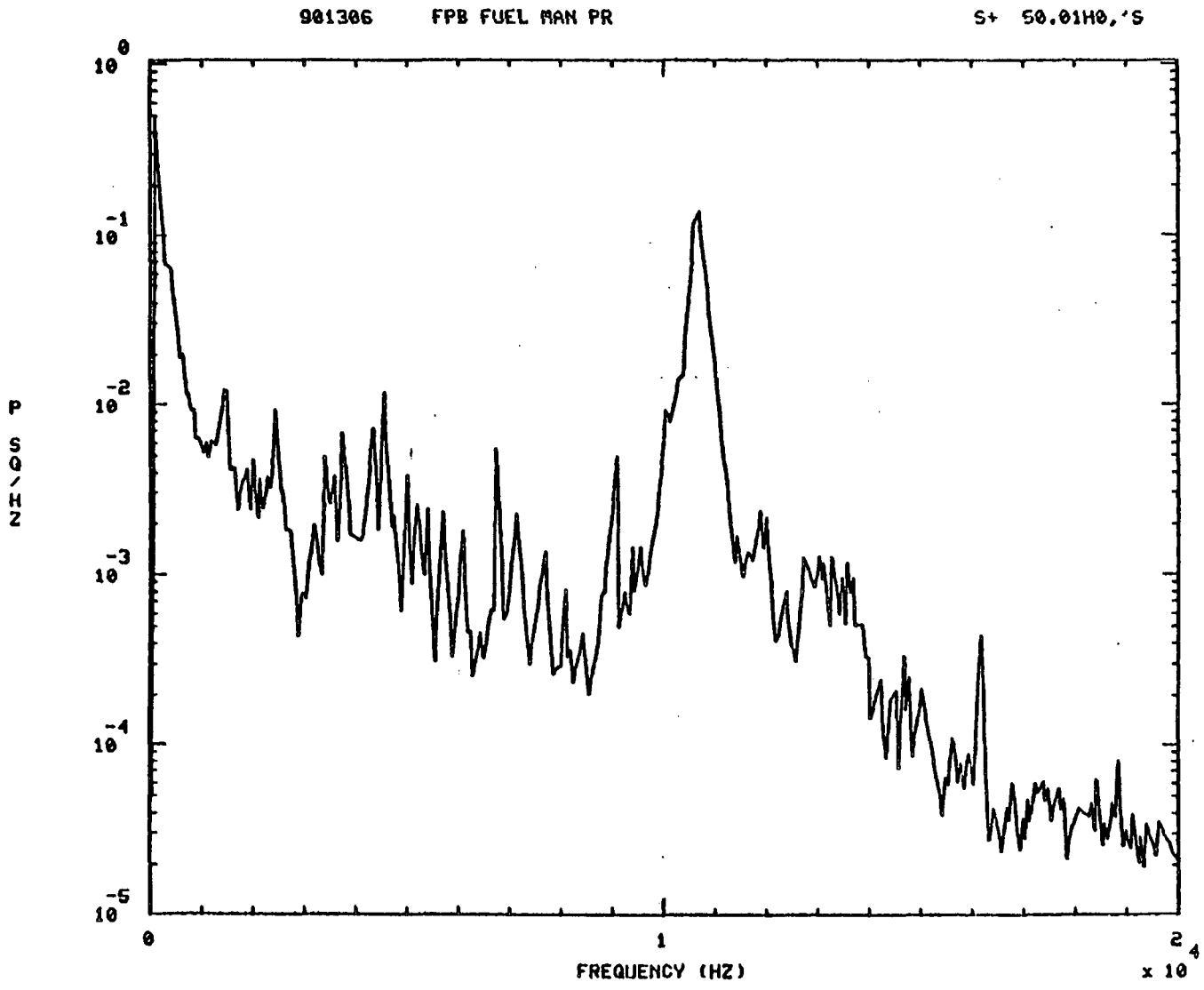
S+ 5.01H0,'S
P SQ\HZ
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4

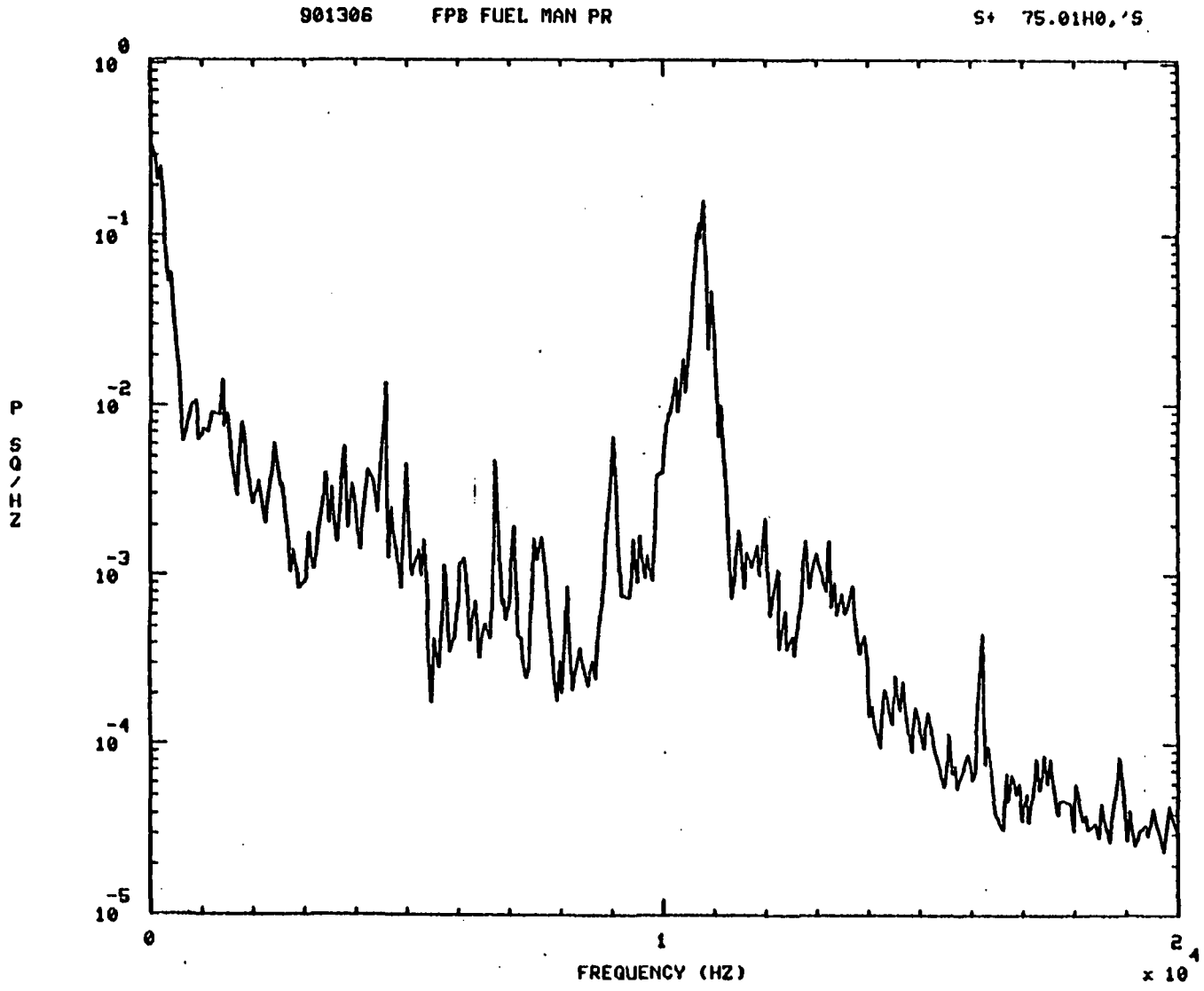

901306 PBP DS PR
S+ 35.01H0,'S
P SQ\HZ
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4


901306 PBP DS PR
S+ 70.01H0,'S
P SQ\HZ
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4


901306 FPB FUEL MAN PR
S+ 5.01H0,'S
P SQ\HZ
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
FREQUENCY (HZ)
x 10^4


901306 FPB FUEL MAN PR
S+ 20.01H0,'S
P SQ/HZ
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
FREQUENCY (HZ)
x 10^4


901306 FPB FUEL MAN PR
S+ 50.01H0,'S
P SQ\HZ
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
FREQUENCY (HZ)
x 10^4


901306 FPB FUEL MAN PR
S+ 75.01H0,'S
P SQ\HZ
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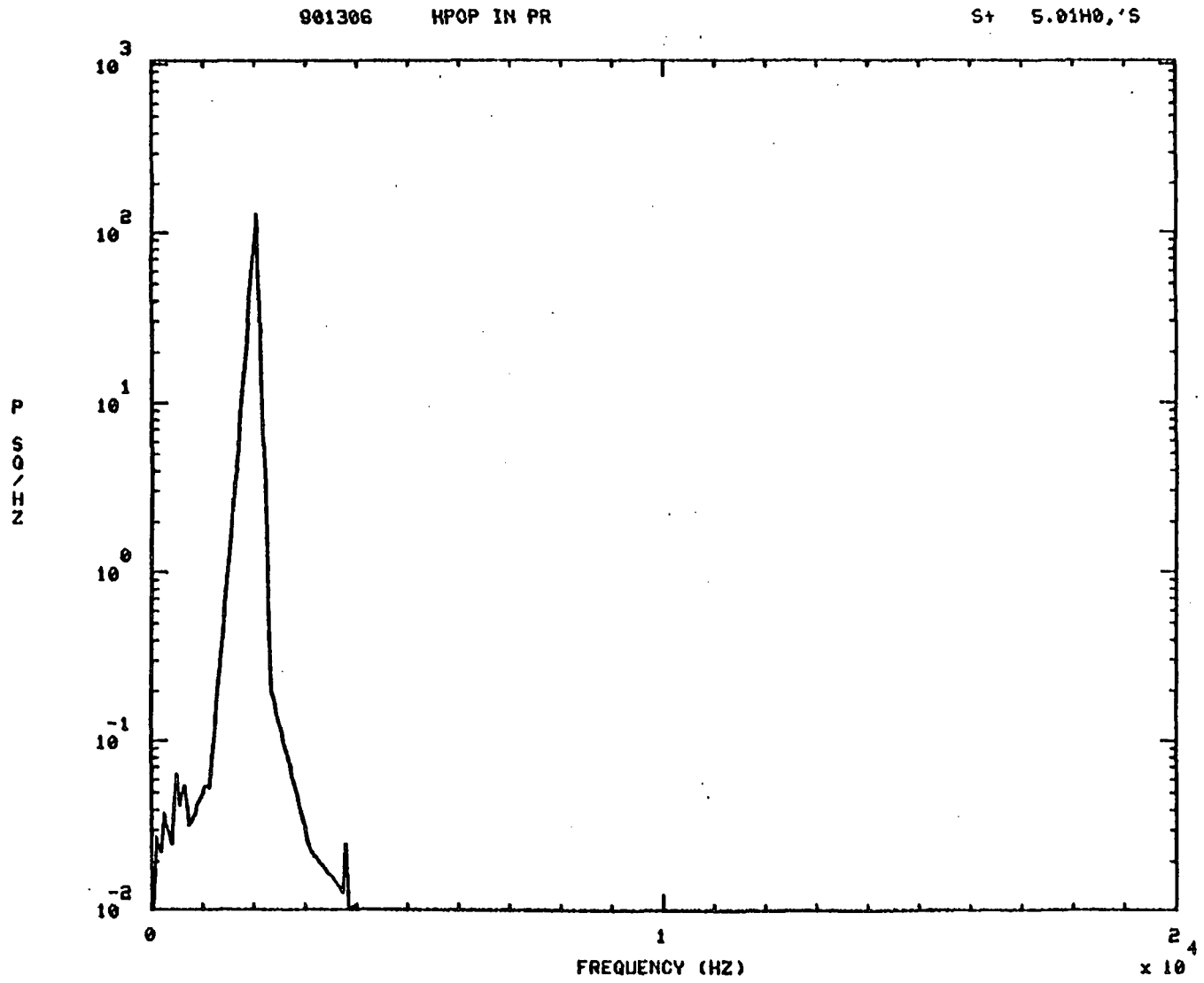
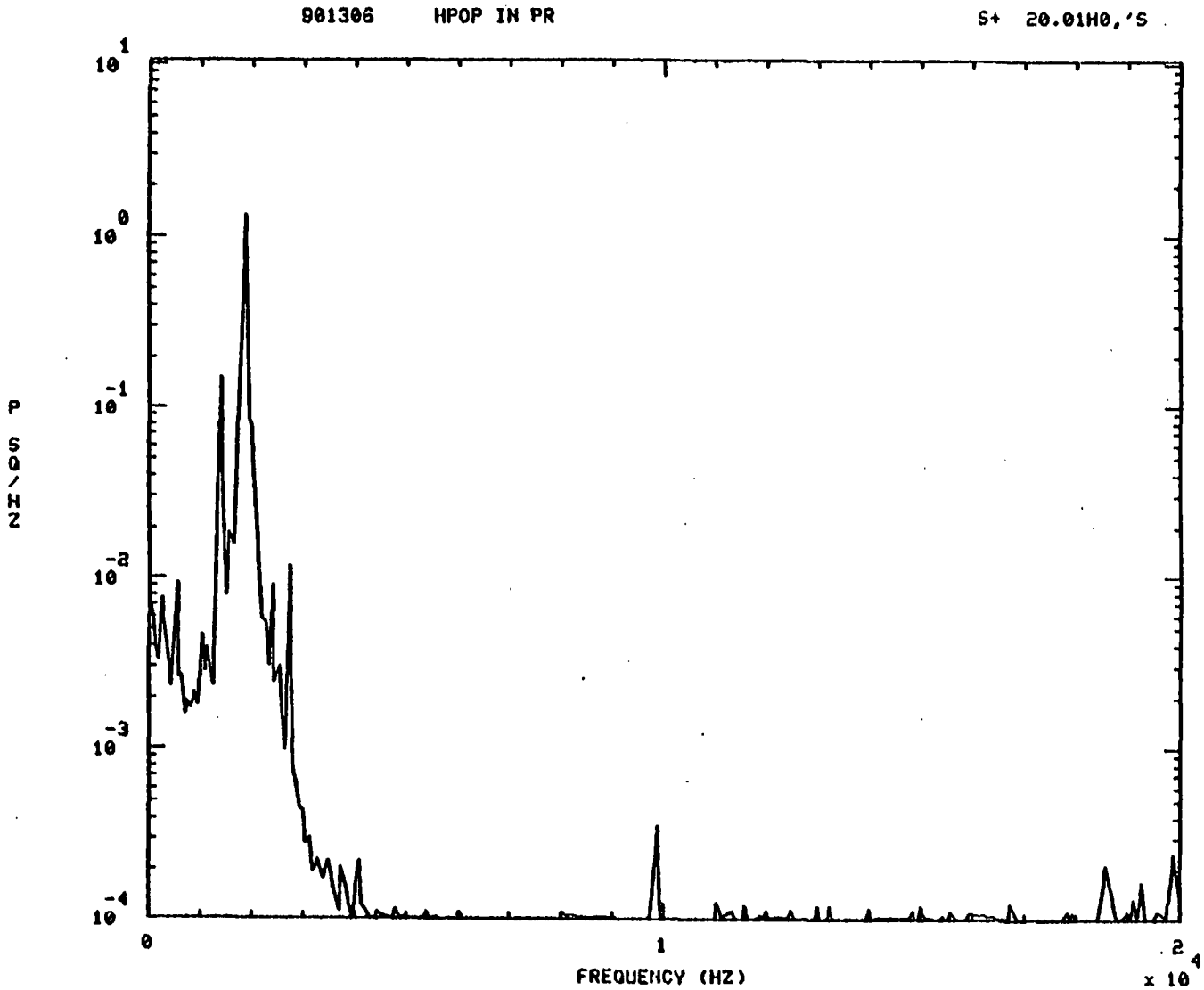
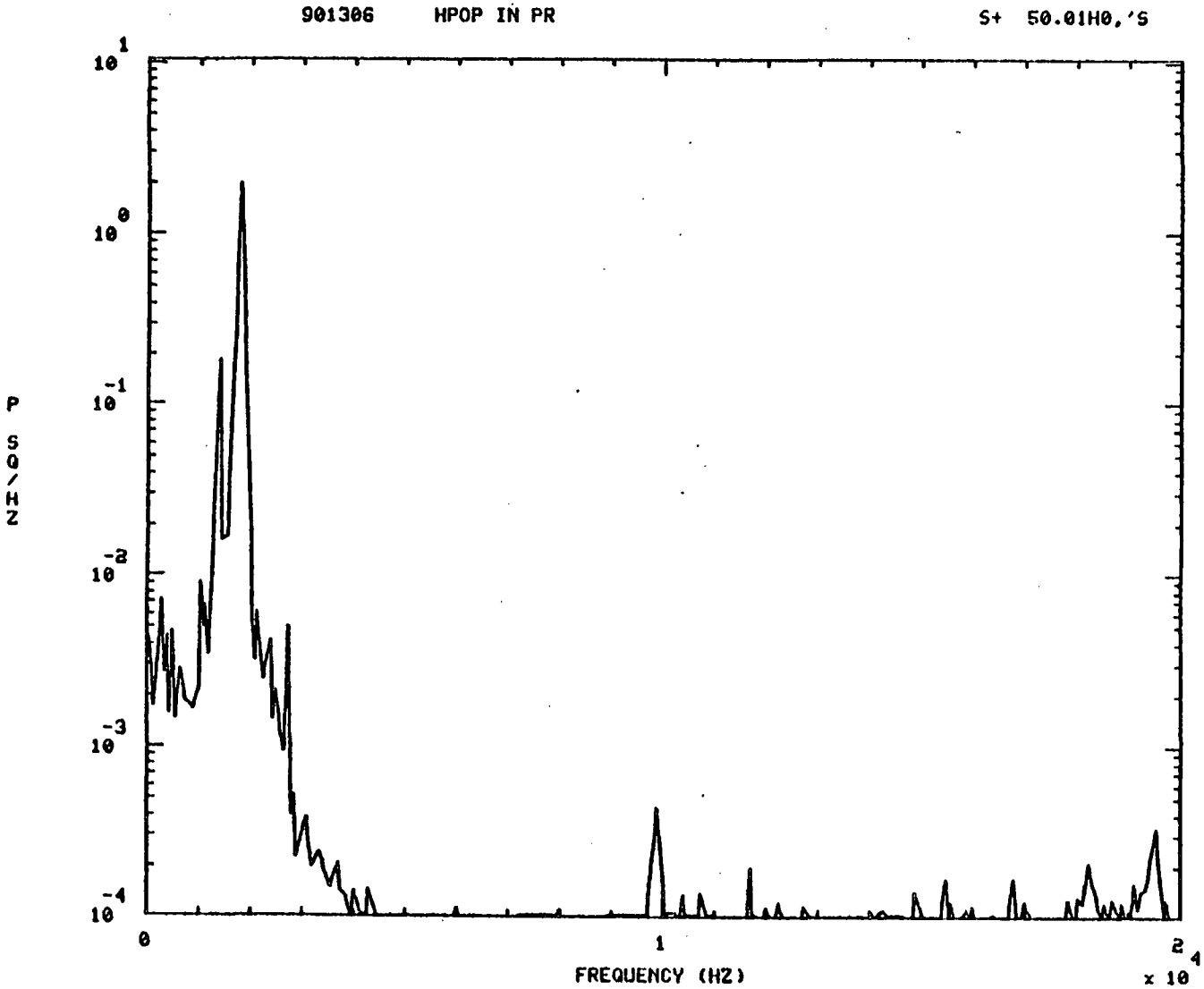
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
FREQUENCY (HZ)
x 10^4


901306 HPOP IN PR
S+ 5.01H0,'S
P SQ\HZ
10^3
10^2
10^1
10^0
10^-1
10^-2
0
1
2
FREQUENCY (HZ)
x 10^4


901306 HPOP IN PR
S+ 20.01H0,'S
10^1
10^0
10^-1
10^-2
10^-3
10^-4
P SQ\HZ
0
1
2
FREQUENCY (HZ)
x 10^4


901306 HPOP IN PR
S+ 50.01H0,'S
P S Q \ H Z
10^1
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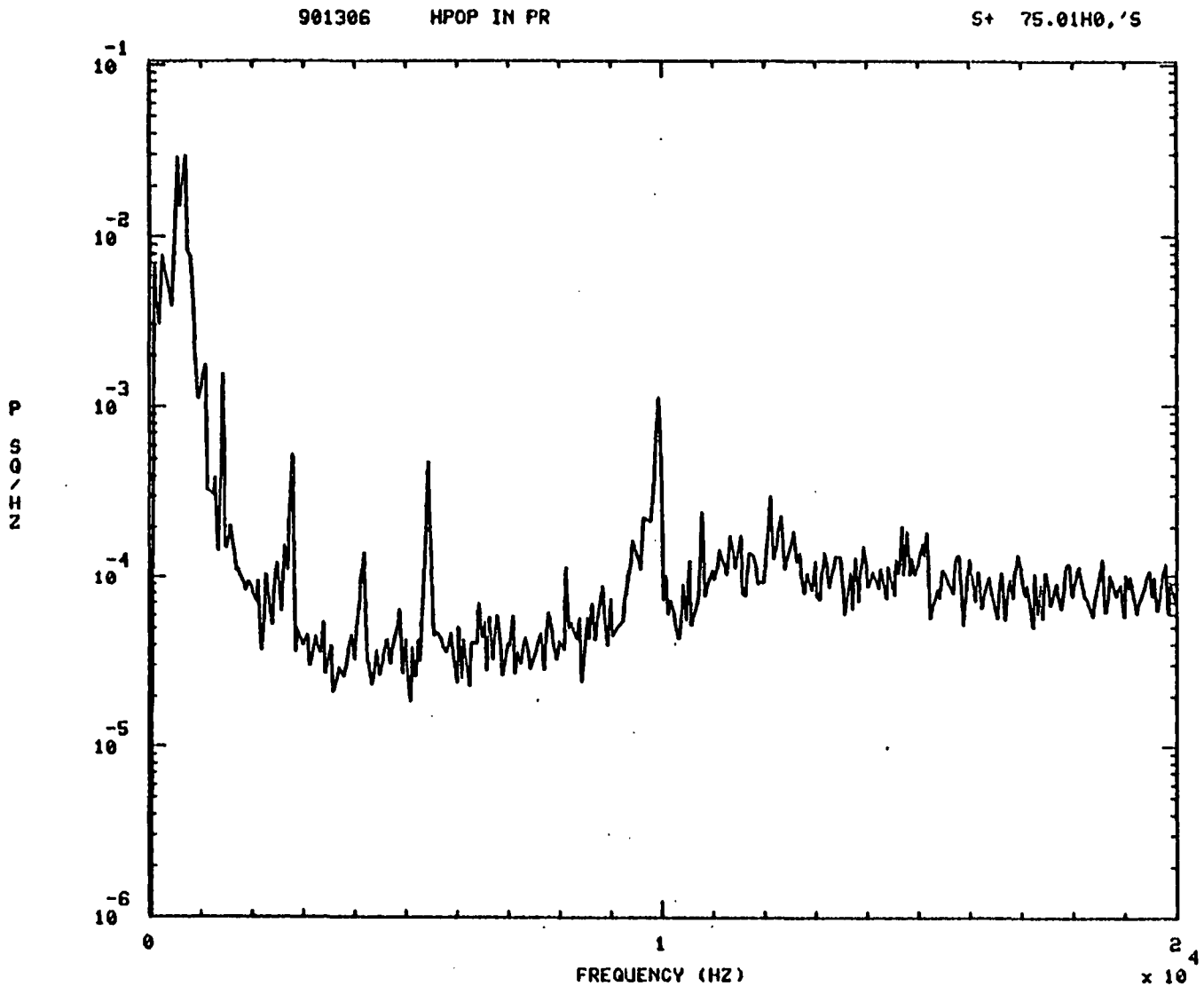
10^-1
10^-2
10^-3
10^-4
0
1
2
FREQUENCY (HZ)
x 10^4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P SQ/HZ
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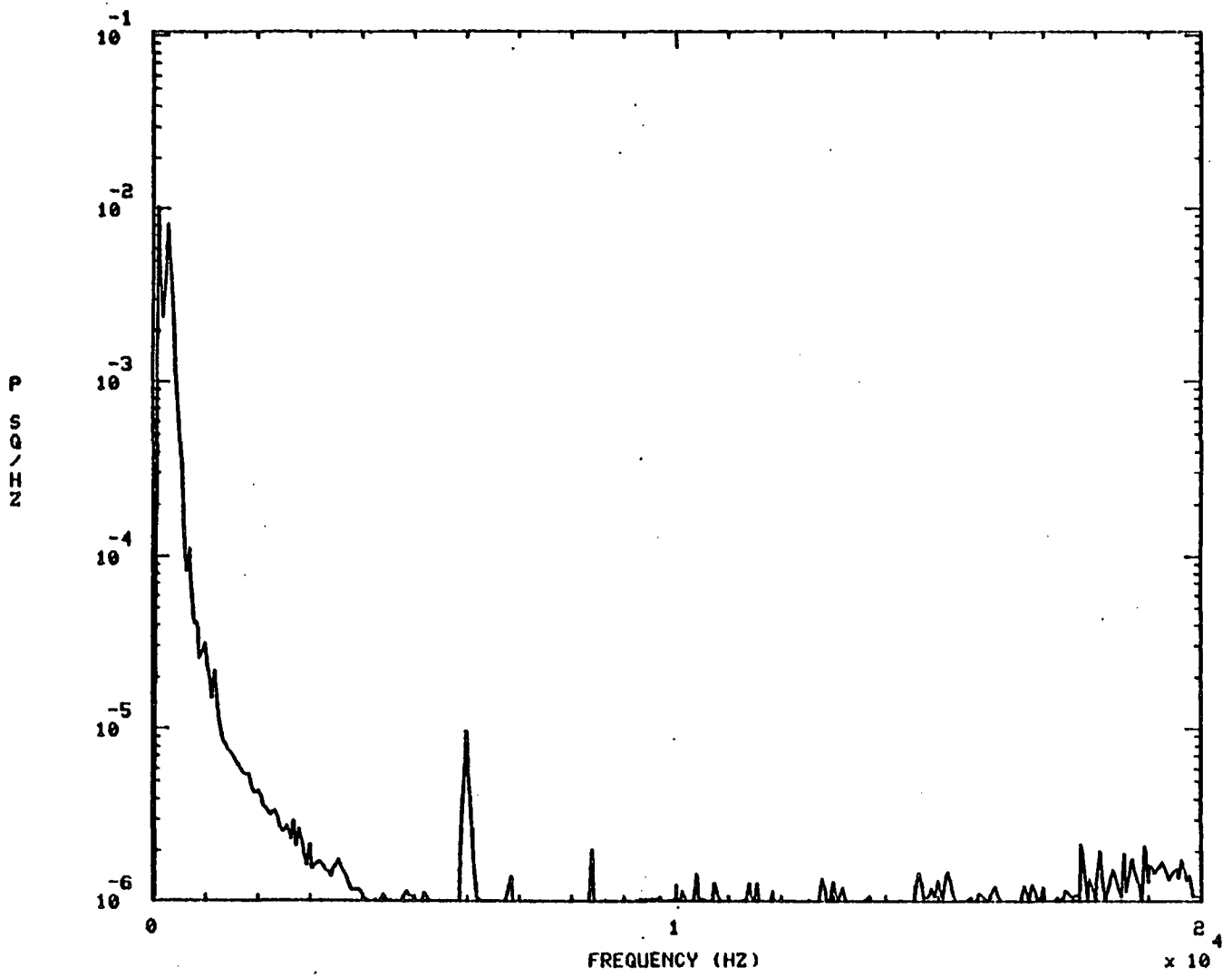
10^-2
10^-3
10^-4
10^-5
10^-6
0
1
2
FREQUENCY (HZ)
x 10^4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P S/HZ
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10^-3
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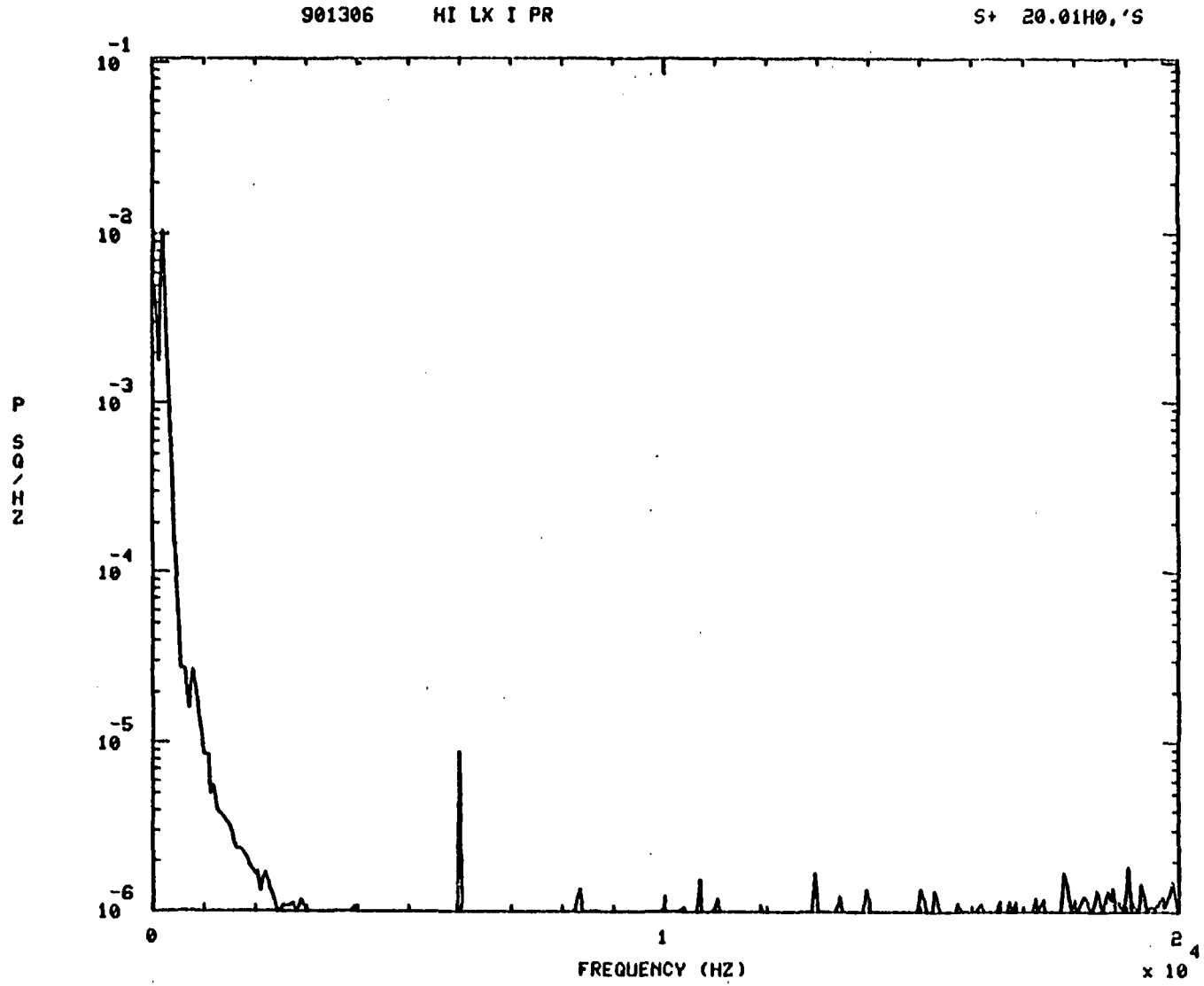
10^-5
10^-6
0
1
2
FREQUENCY (HZ)
x 10^4


901306 HI LX I PR
S+ 20.01H0,'S
P
S
Q
/
H
Z
10^-1
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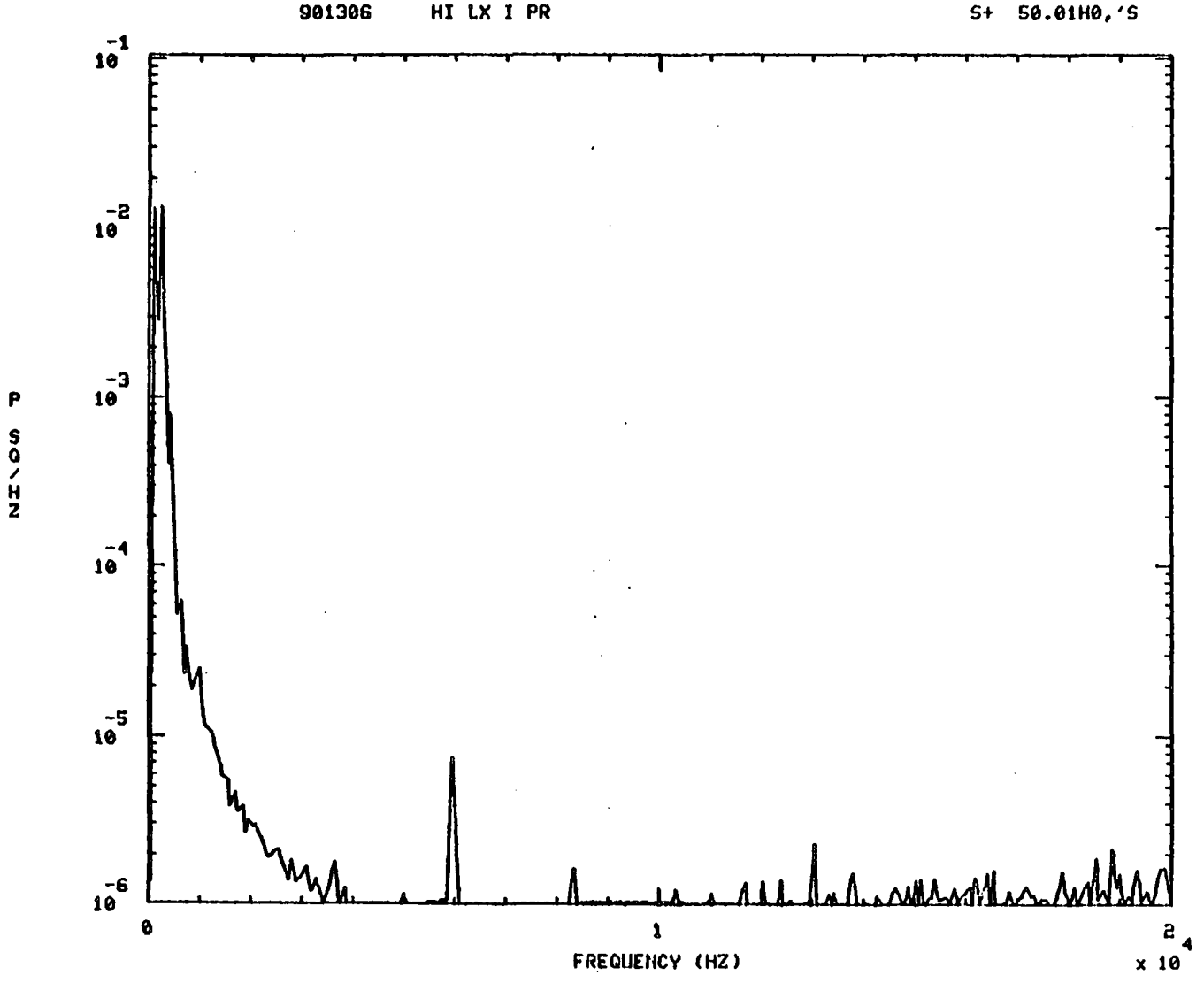
10^-5
10^-6
0
1
2
FREQUENCY (HZ)
x 10^4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S+ 50.01H0,'S
P SQ\HZ
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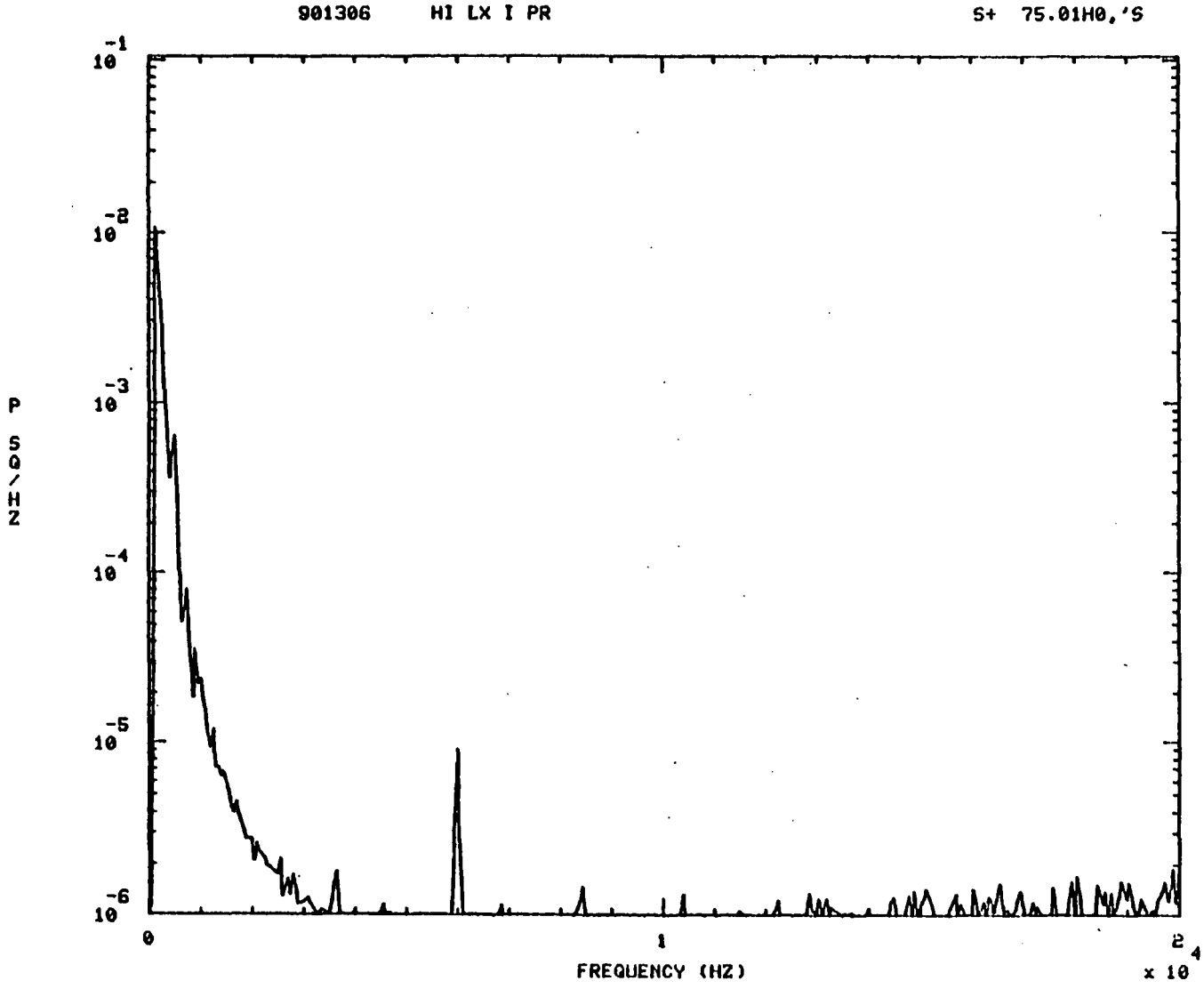
10^-4
10^-5
10^-6
0
1
2
FREQUENCY (HZ)
x 10^4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S+ 75.01H0,'S
P
S
Q
/
H
Z
10^-1
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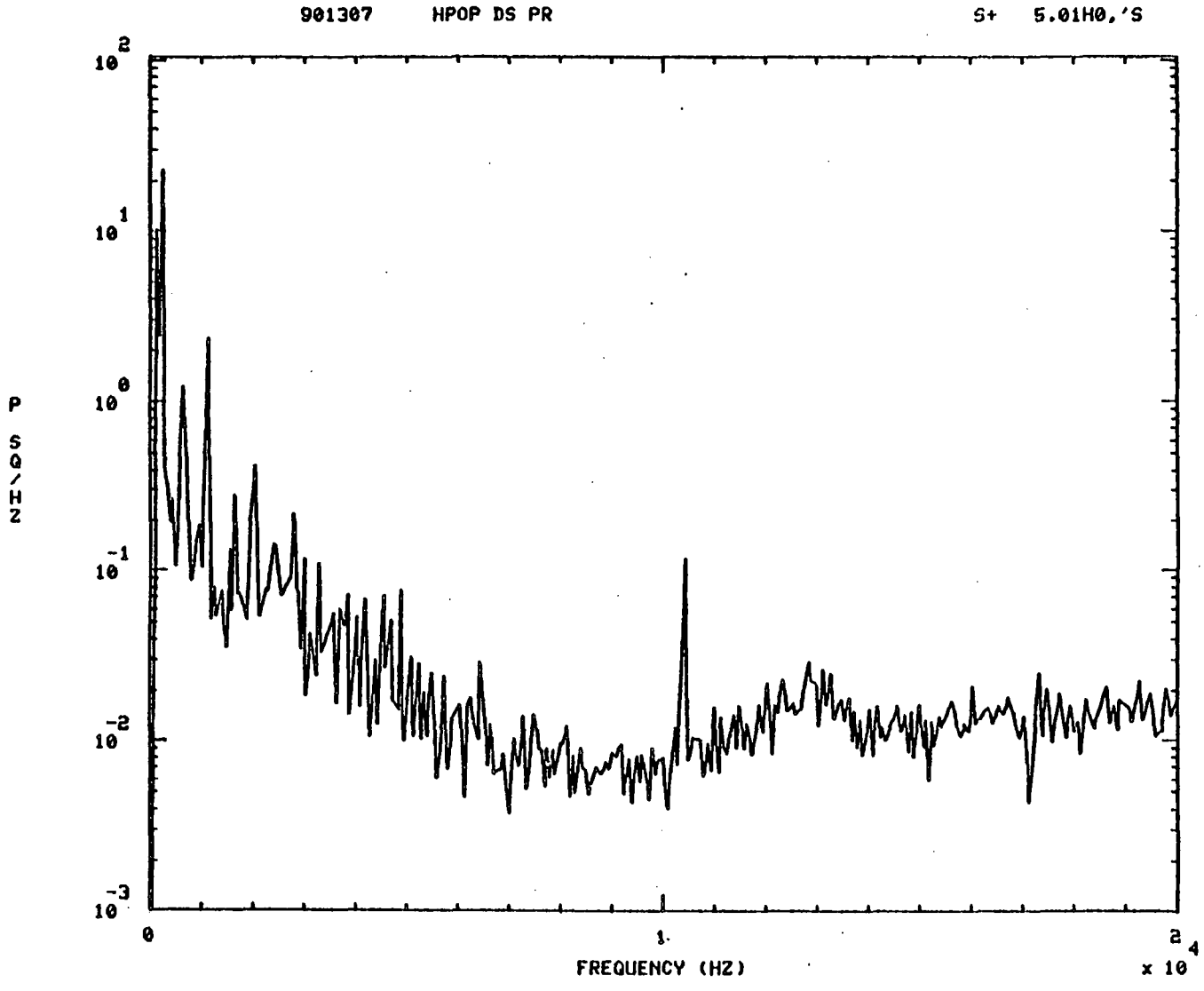
10^-3
10^-4
10^-5
10^-6
0
1
2
FREQUENCY (HZ)
x 10^4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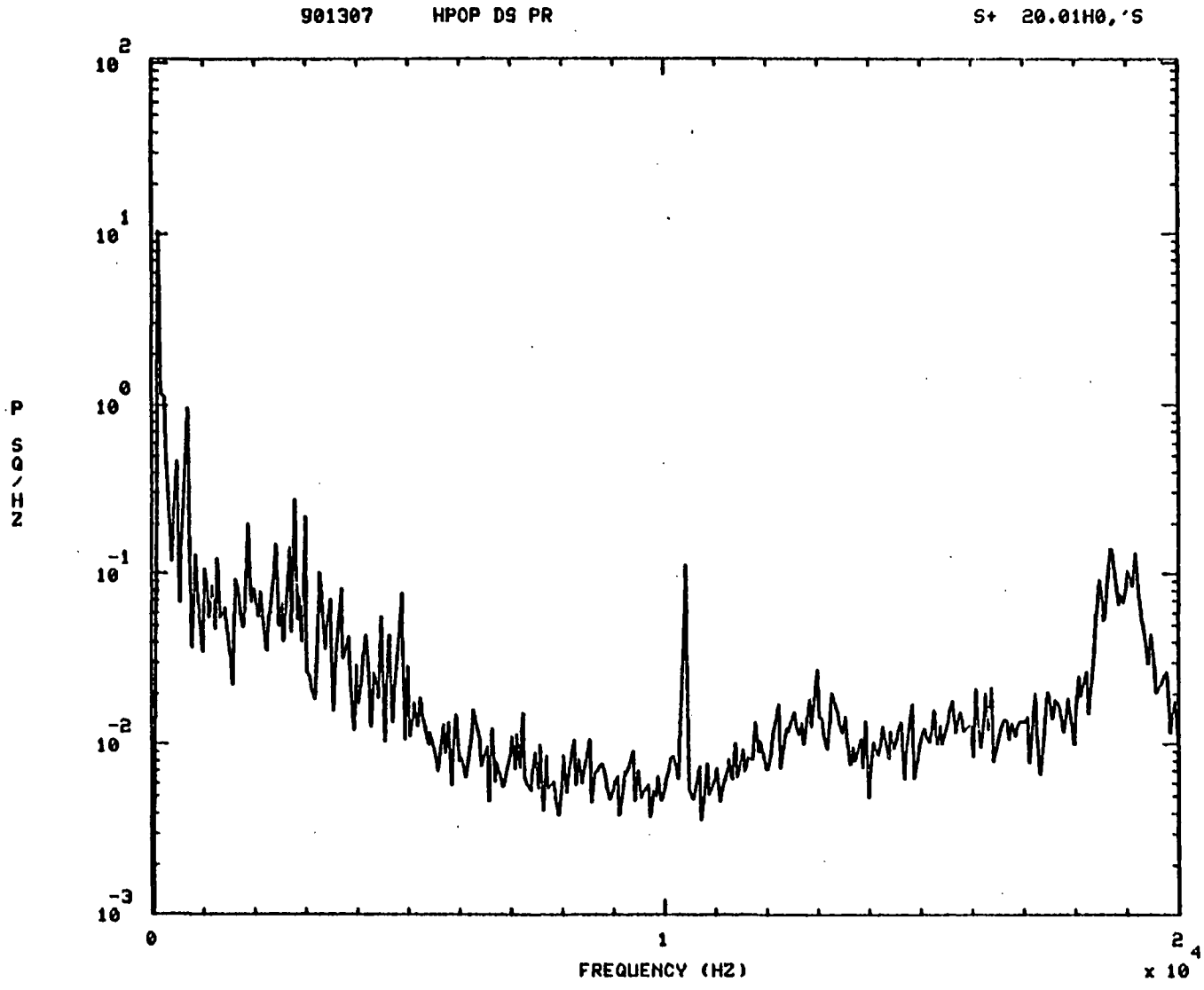
S+ 5.01H0,'S
P S Q / H Z
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4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S+ 20.01H0,'S
P S Q/H Z
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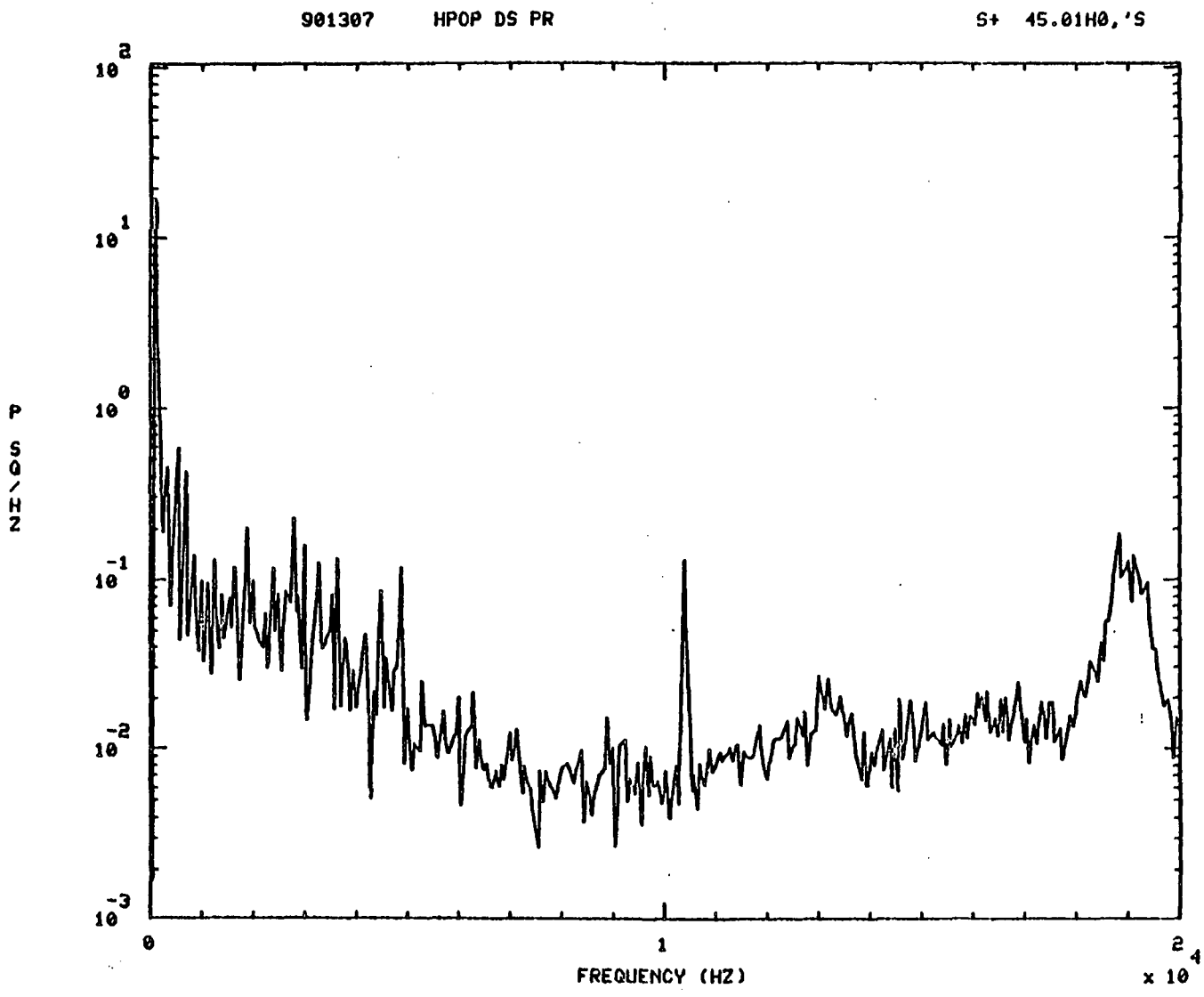
10 1
10 0
10 -1
10 -2
10 -3
0
1
2
FREQUENCY (HZ)
x 10 4


901307 HPOP DS PR
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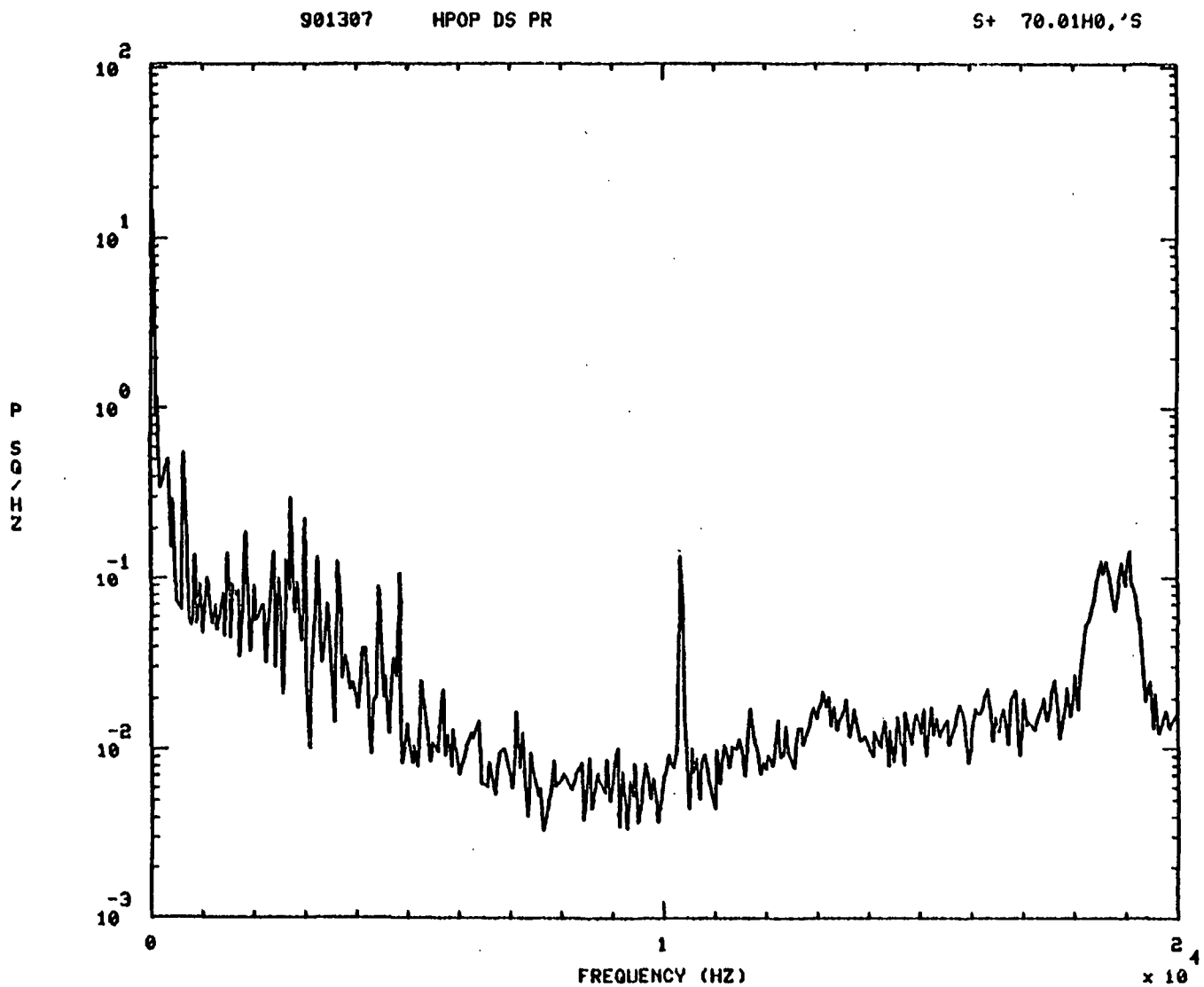
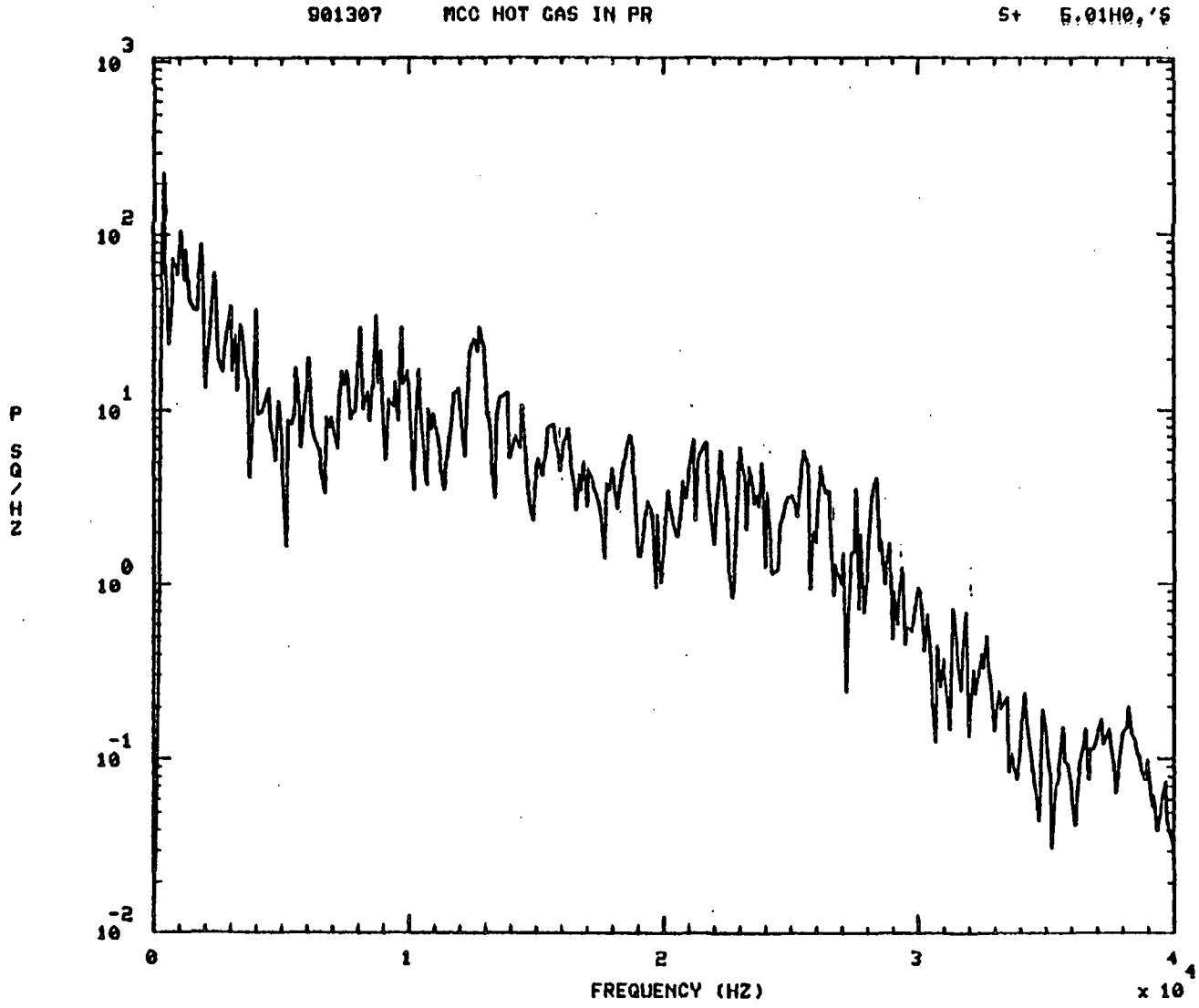
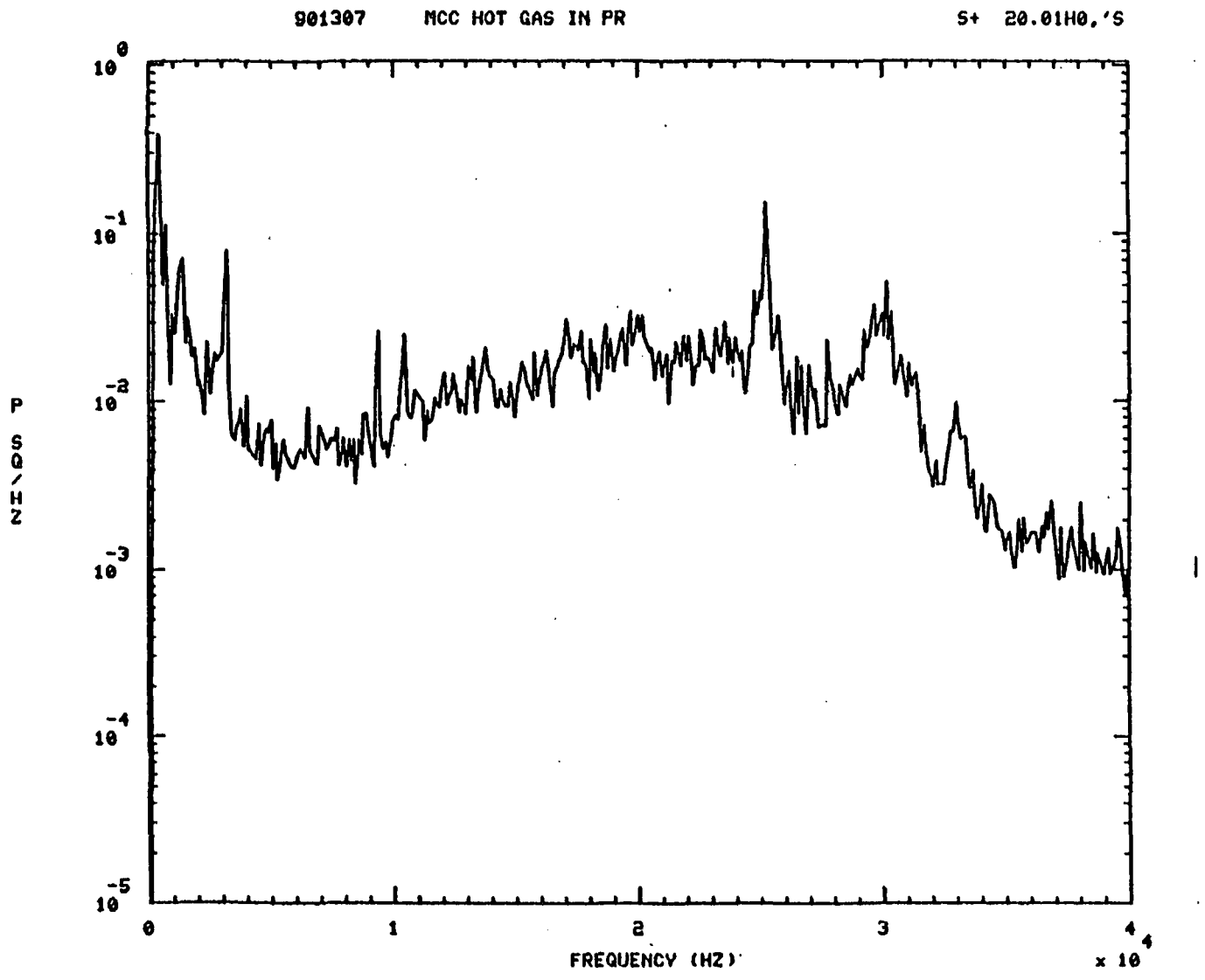
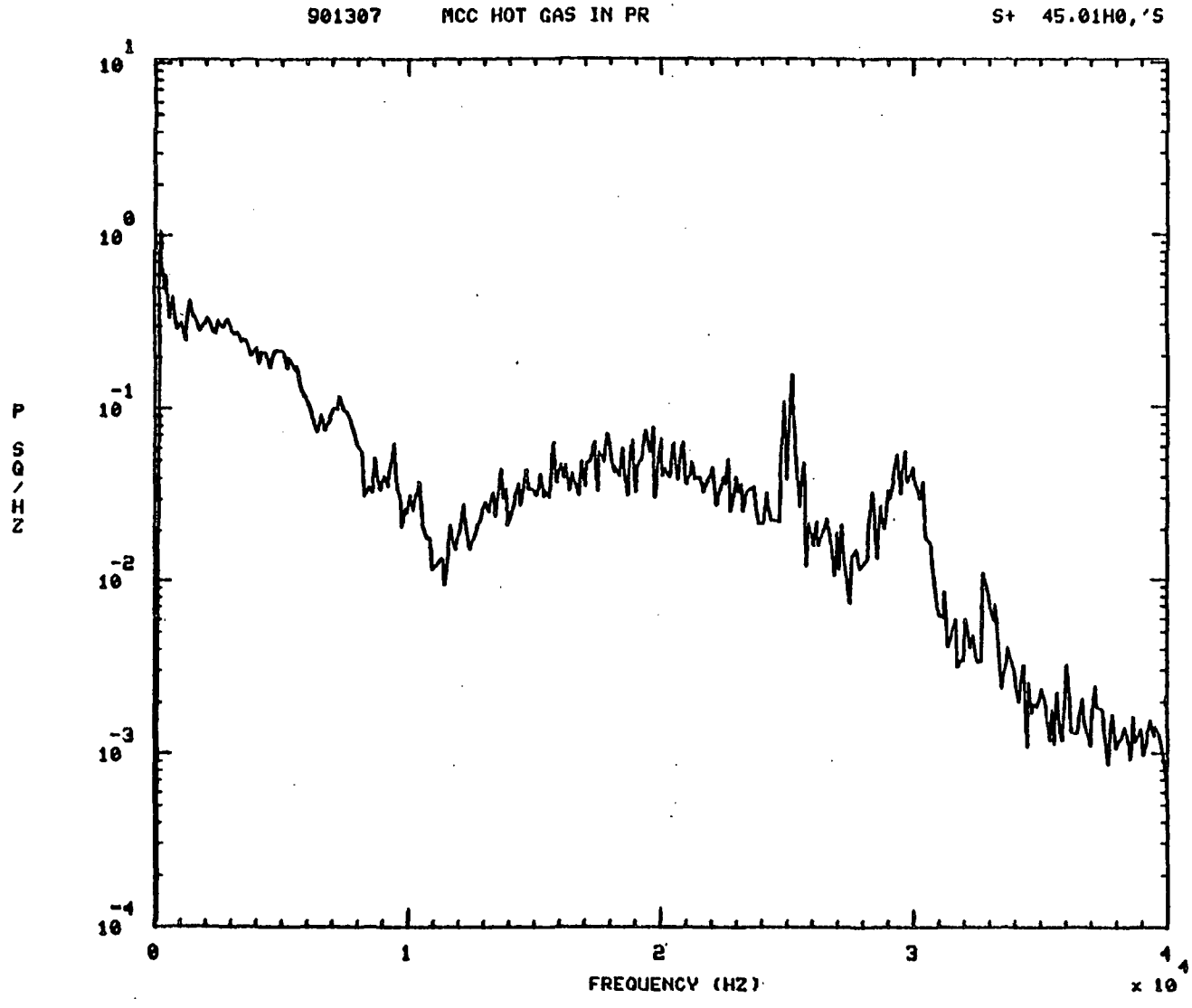
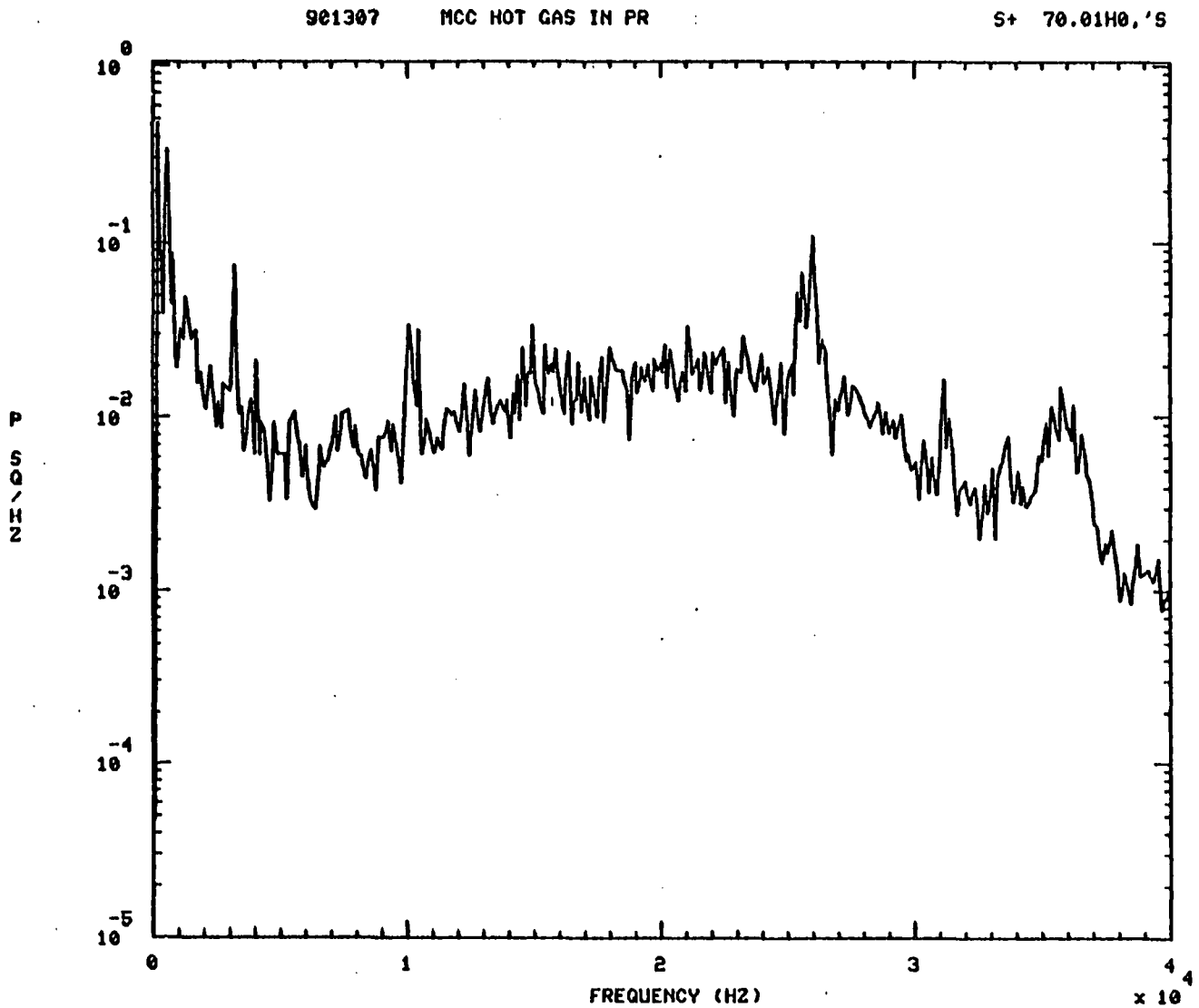
P SQ/HZ
10^{2}
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-3}
0
1
2
FREQUENCY (HZ)
x 10^{4}

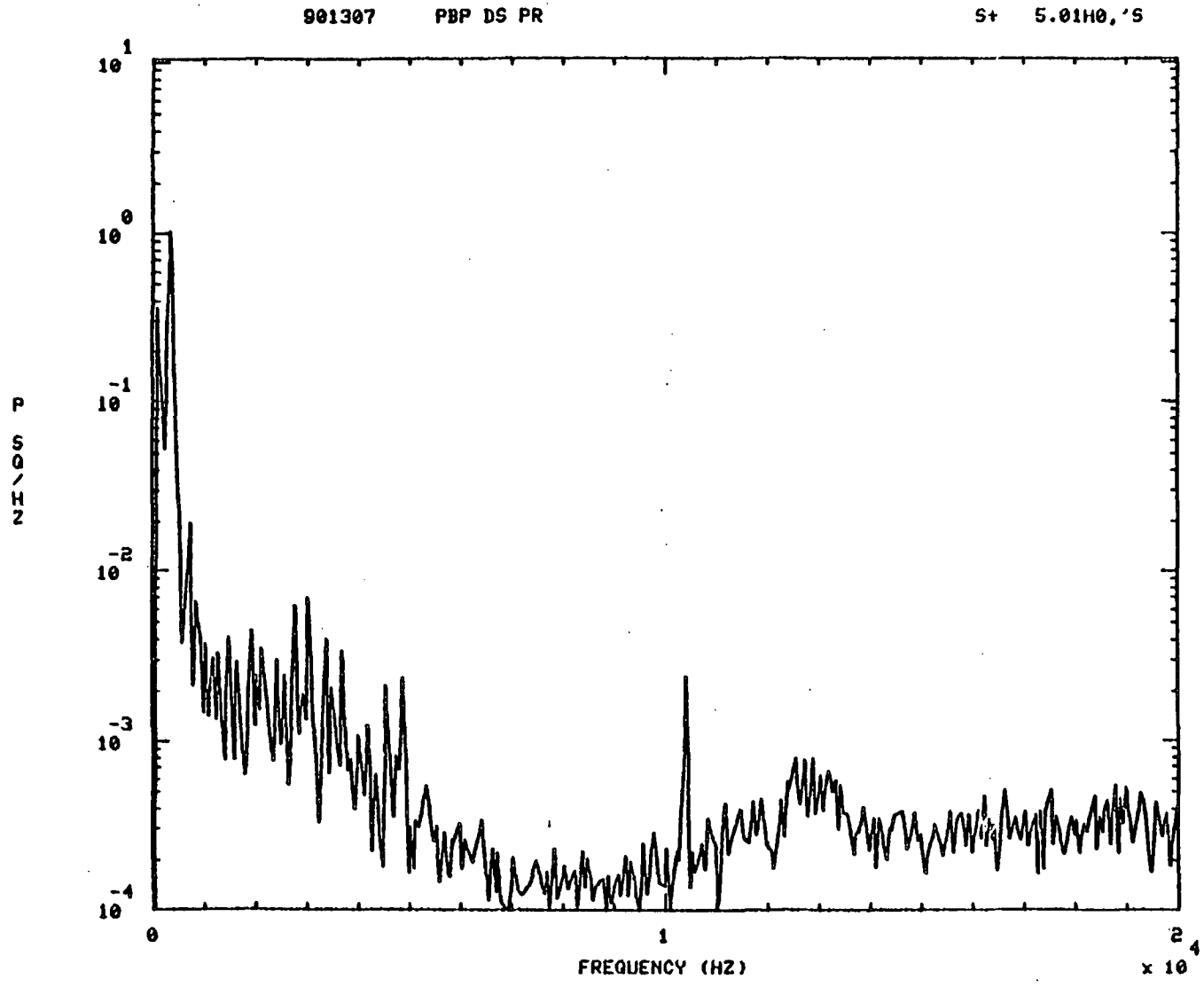

901307 HPOP DS PR
S+ 70.01H0,'S
P
SQ/HZ
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4

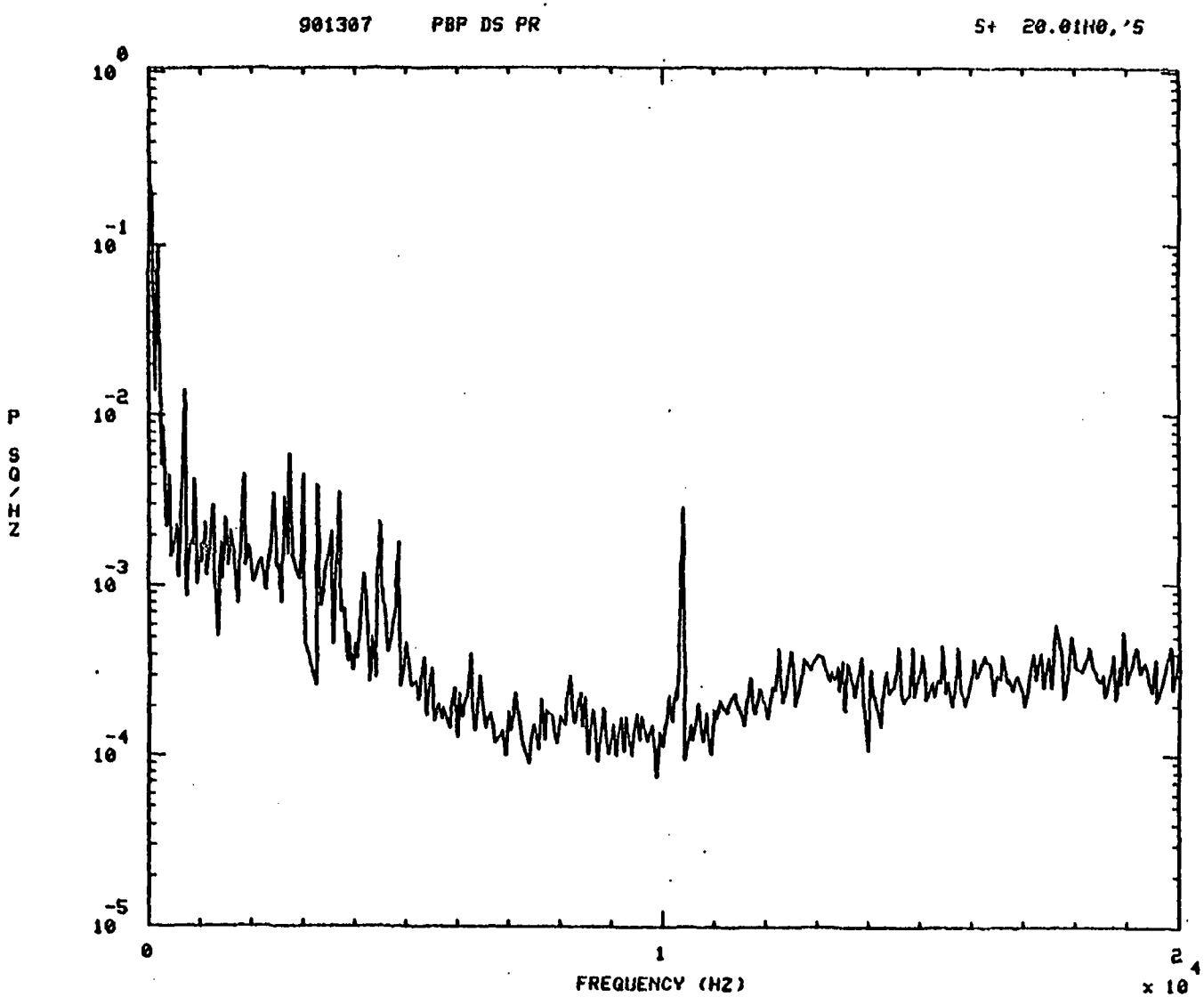

901307 MCC HOT GAS IN PR
S+ 5.01H0,'S
P S Q / H Z
10^3
10^2
10^1
10^0
10^-1
10^-2
0
1
2
3
4
FREQUENCY (HZ)
x 10^4

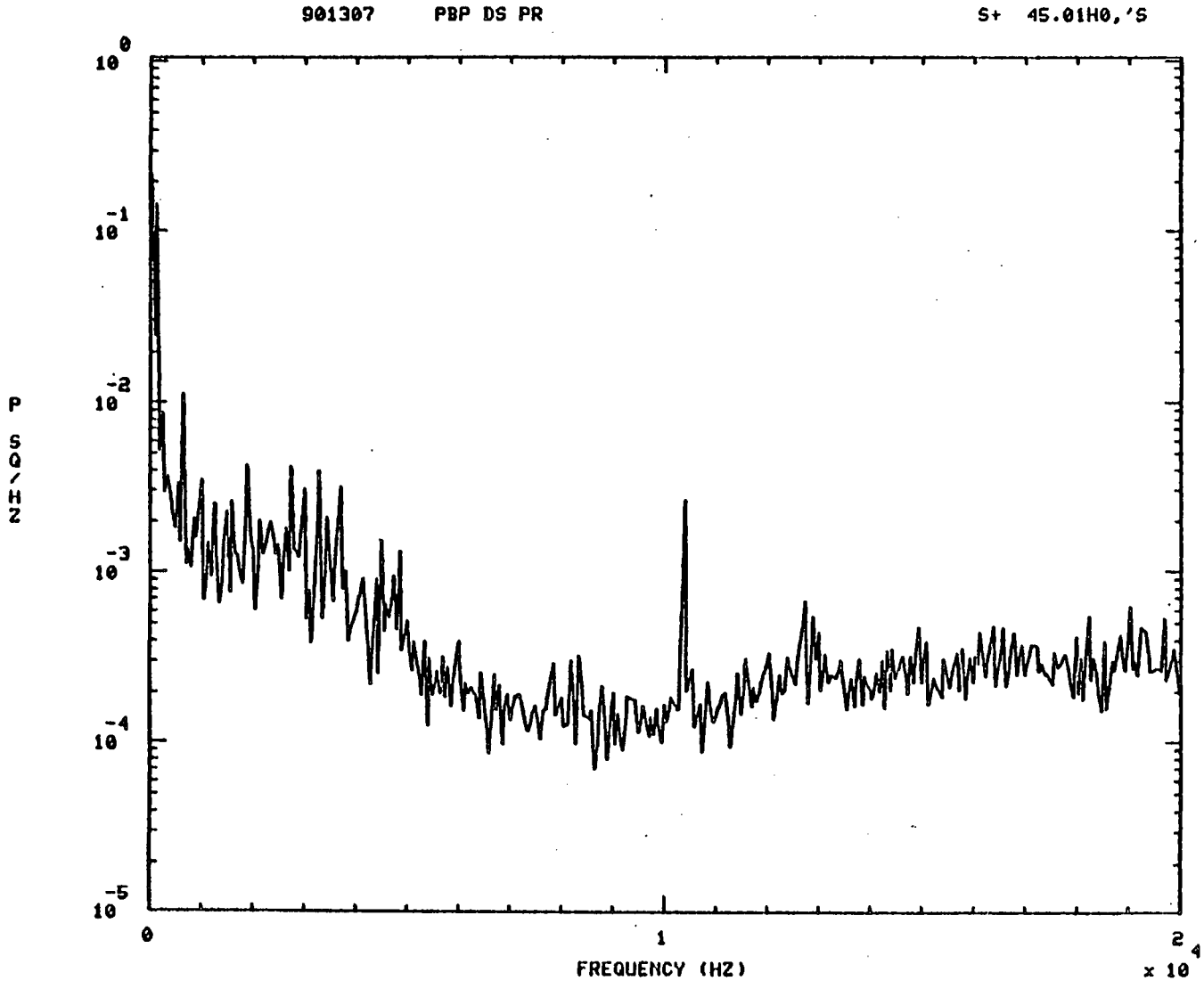

901307 MCC HOT GAS IN PR
S+ 20.01H0,'S
P S Q / H Z
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
3
4
FREQUENCY (HZ)
x 10^4

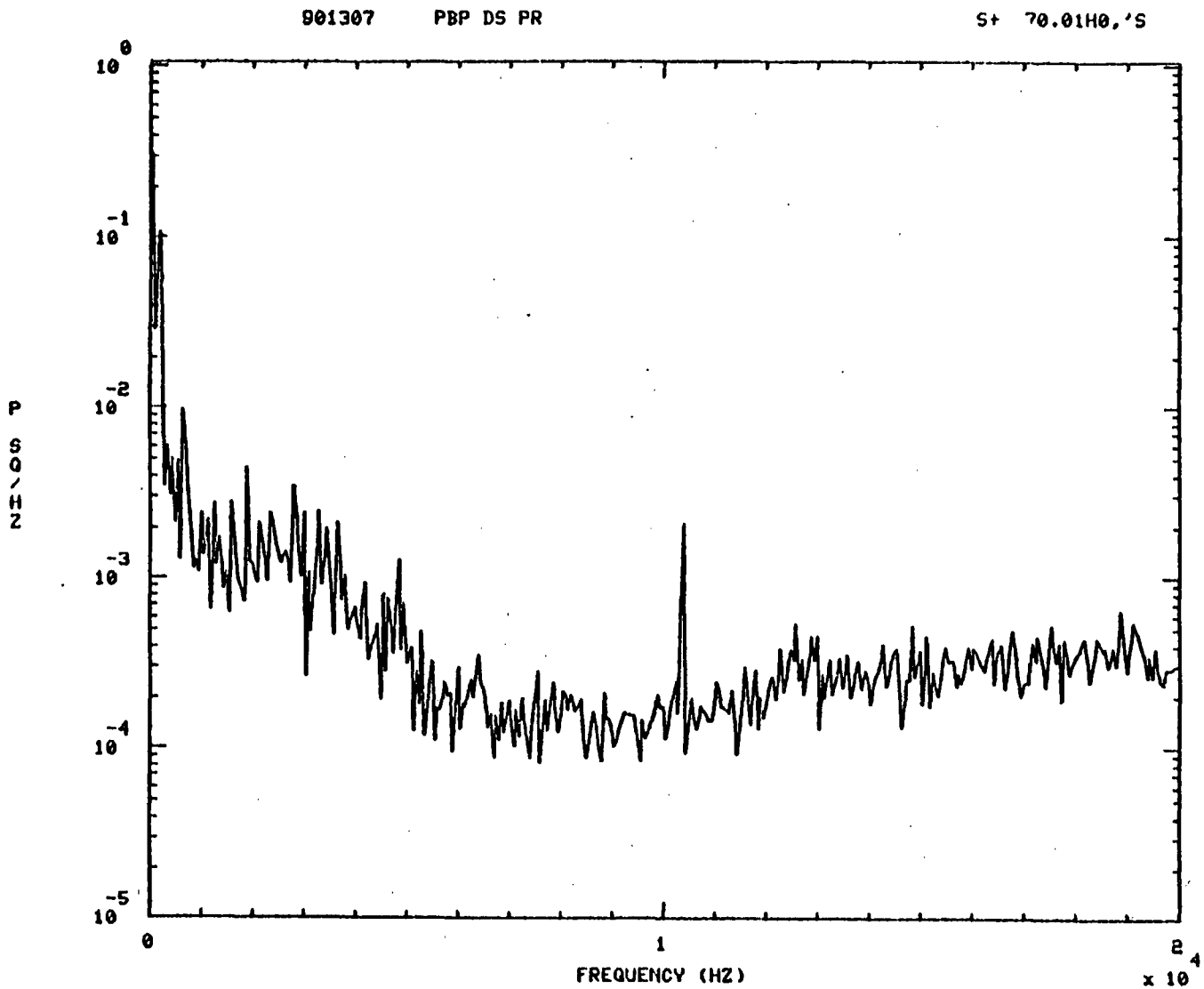

901307 MCC HOT GAS IN PR
S+ 45.01H0,'S
P SQ/HZ
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
3
4
FREQUENCY (HZ)
x 10^4

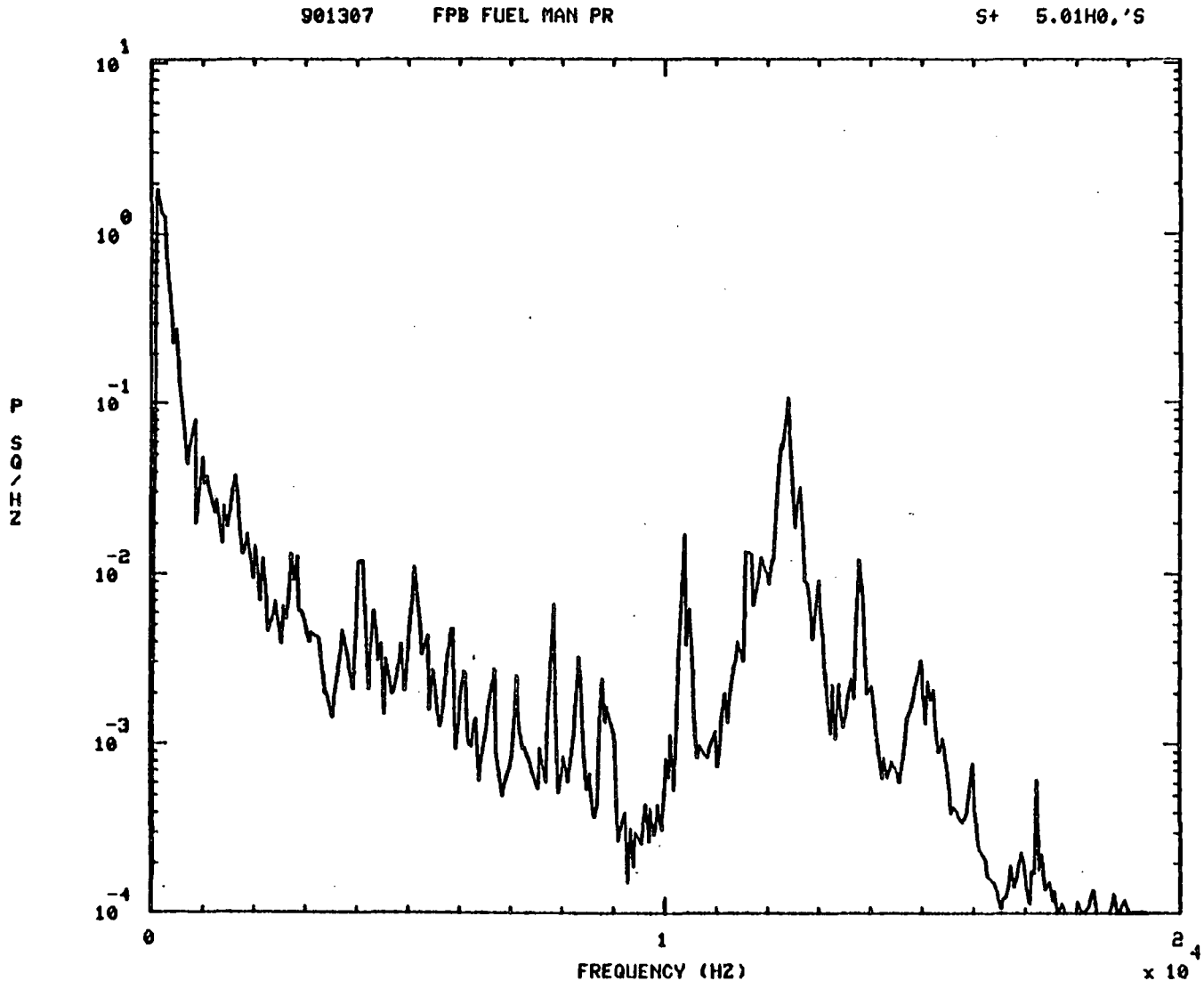

901307 MCC HOT GAS IN PR
S+ 70.01H0,'S
P
S
Q
/
H
Z
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
3
4
FREQUENCY (HZ)
x 10^4

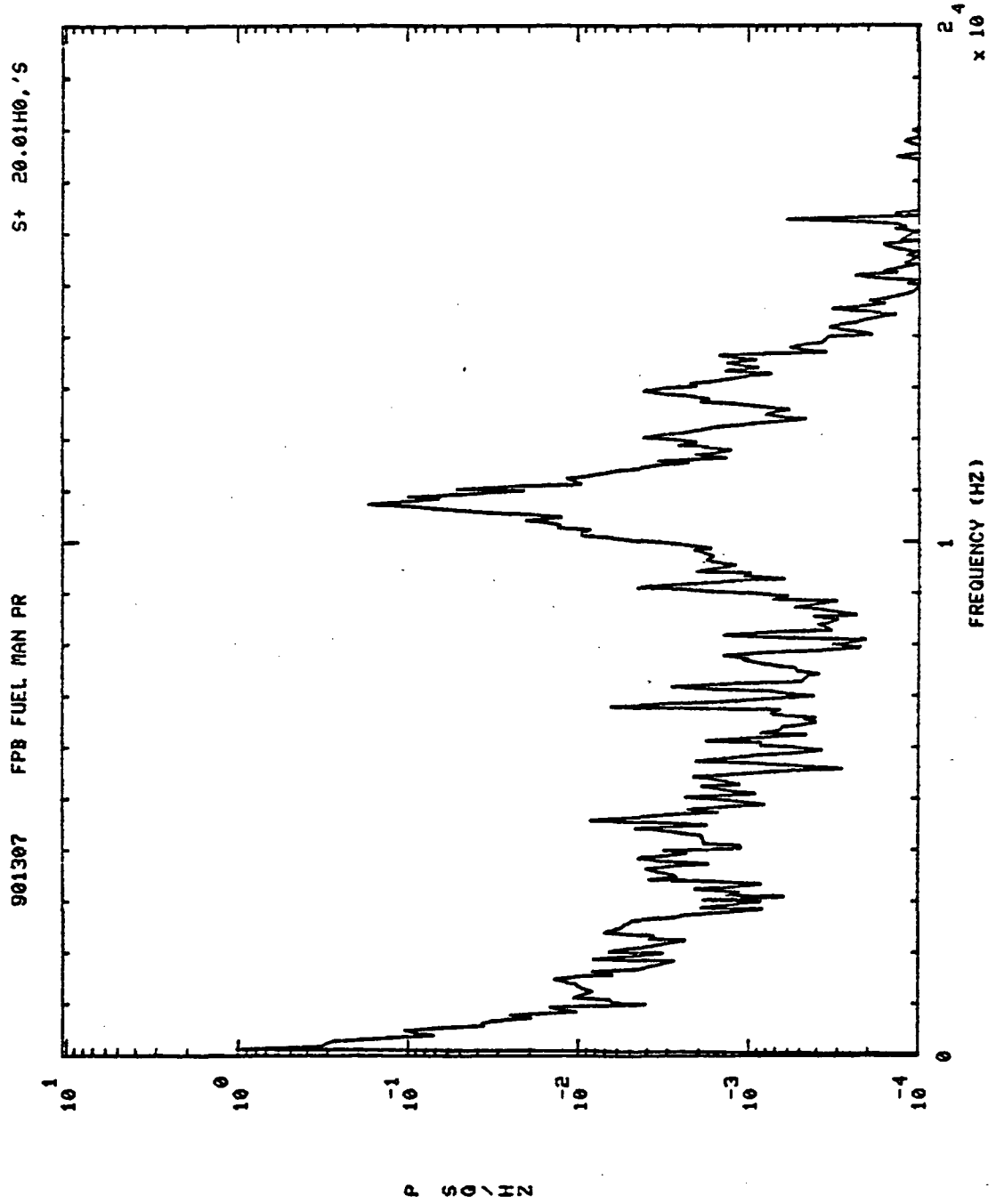

901307 PBP DS PR
S+ 5.01H0,'S
P SQ/HZ
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
FREQUENCY (HZ)
x 10^4


901307 PBP DS PR
S+ 20.01H0,'S
P S Q \ H Z
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
4
x 10
FREQUENCY (HZ)

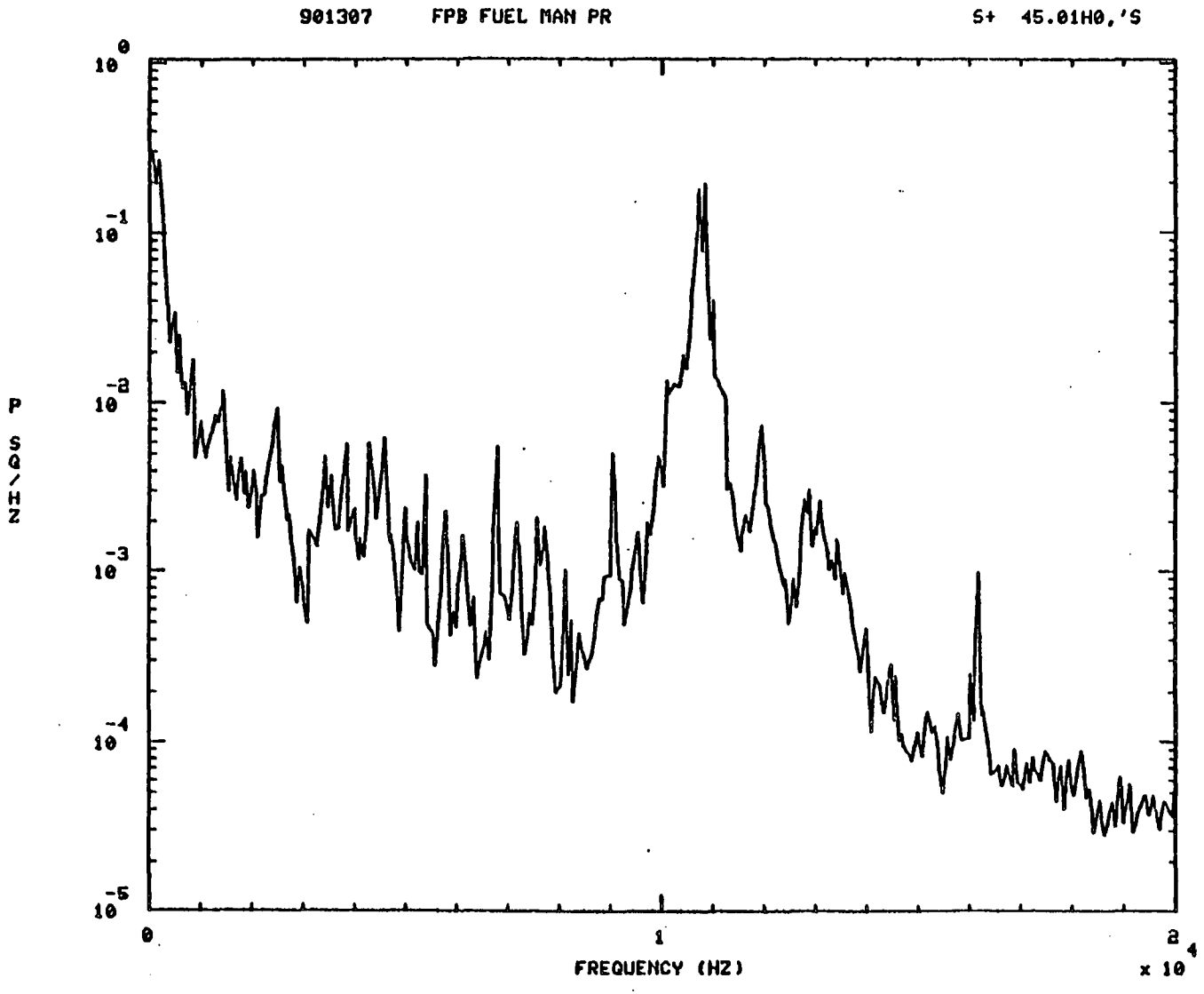

901307 PBP DS PR
S+ 45.01H0,'S
P
S
Q
\
H
Z
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
4
x 10
FREQUENCY (HZ)

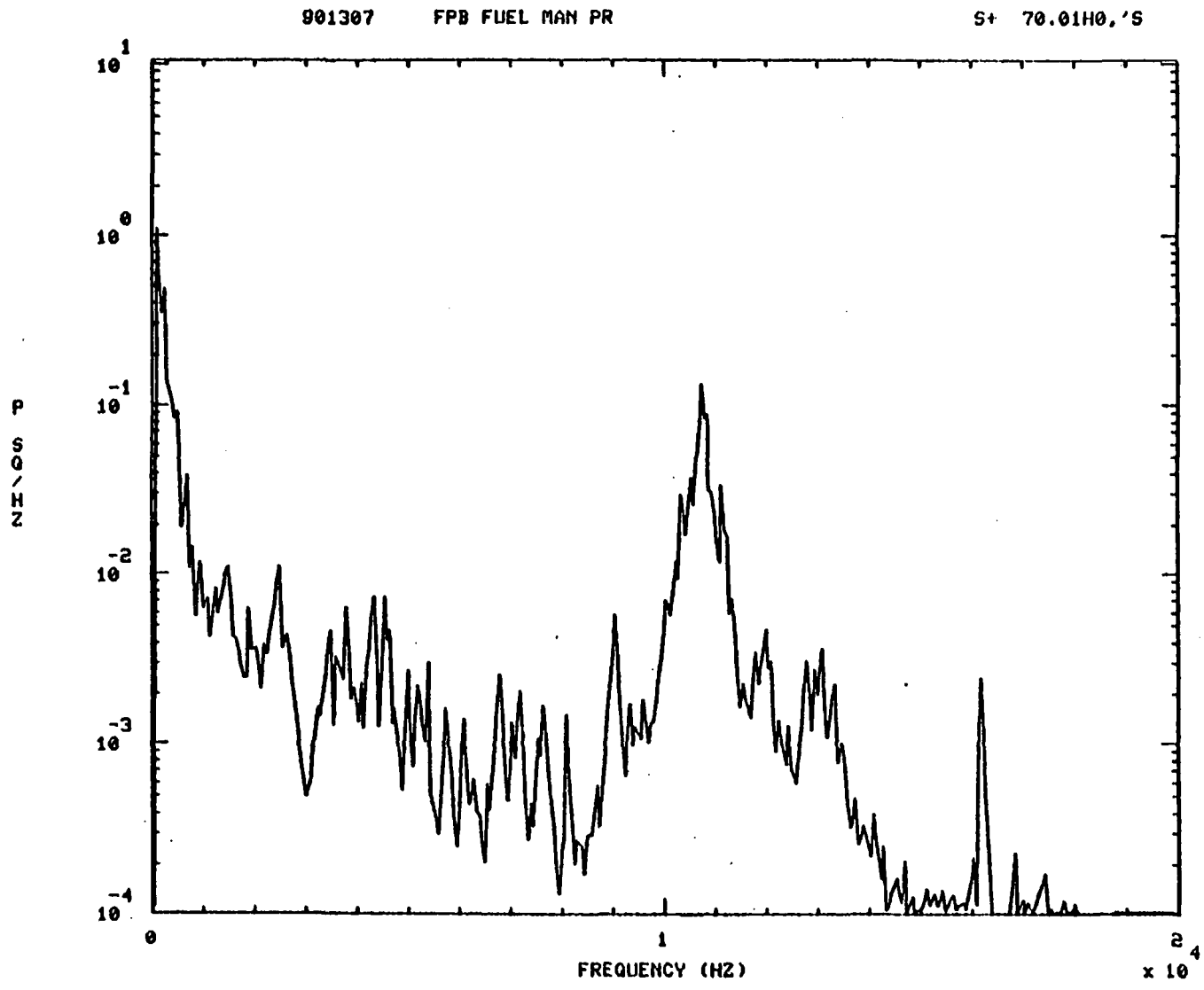

901307 PBP DS PR
S+ 70.01H0,'S
P S Q \ H Z
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
FREQUENCY (HZ)
x 10^4

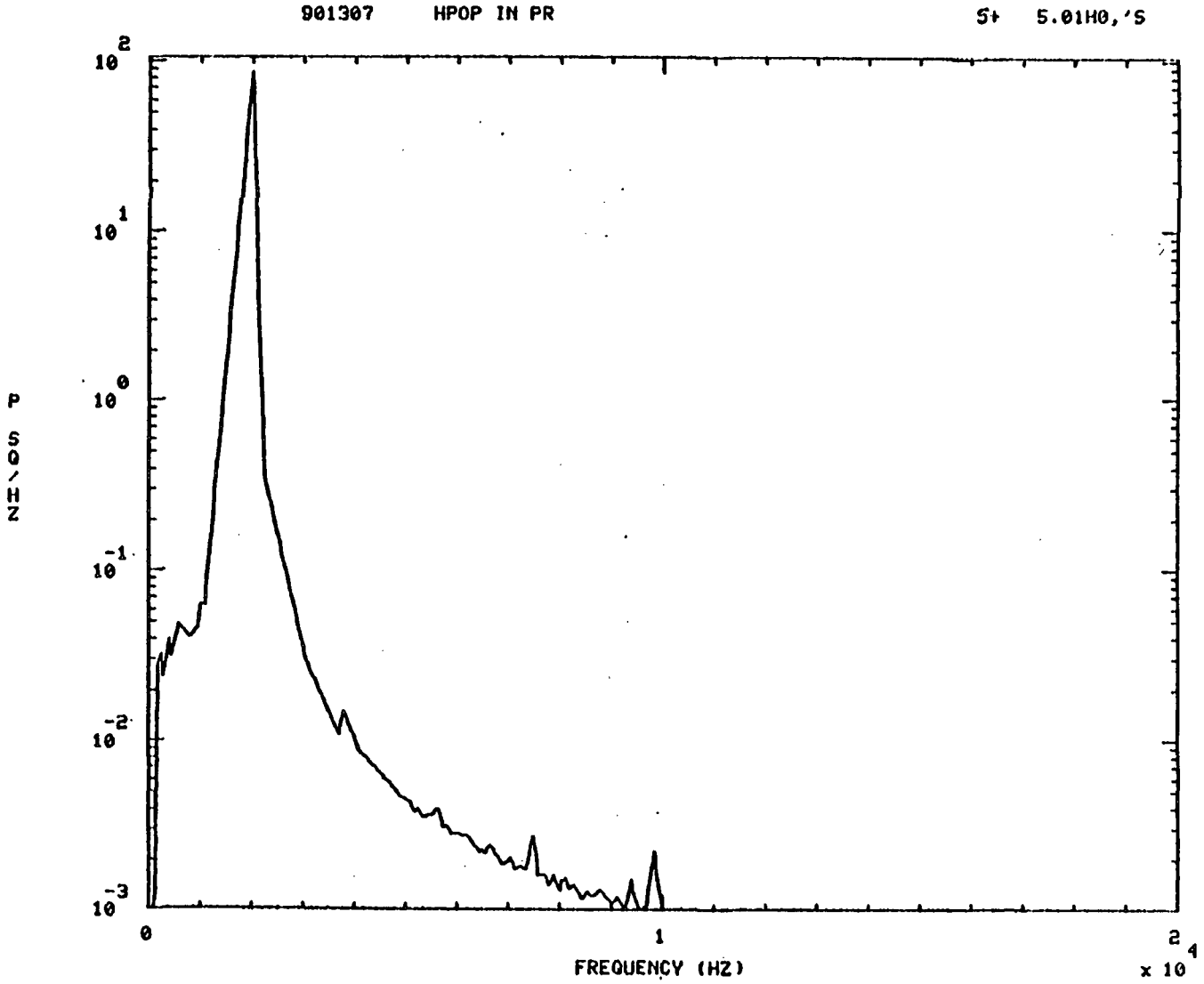

901307 FPB FUEL MAN PR
S+ 5.01H0,'S
P S Q / H Z
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
x 10^4
FREQUENCY (HZ)

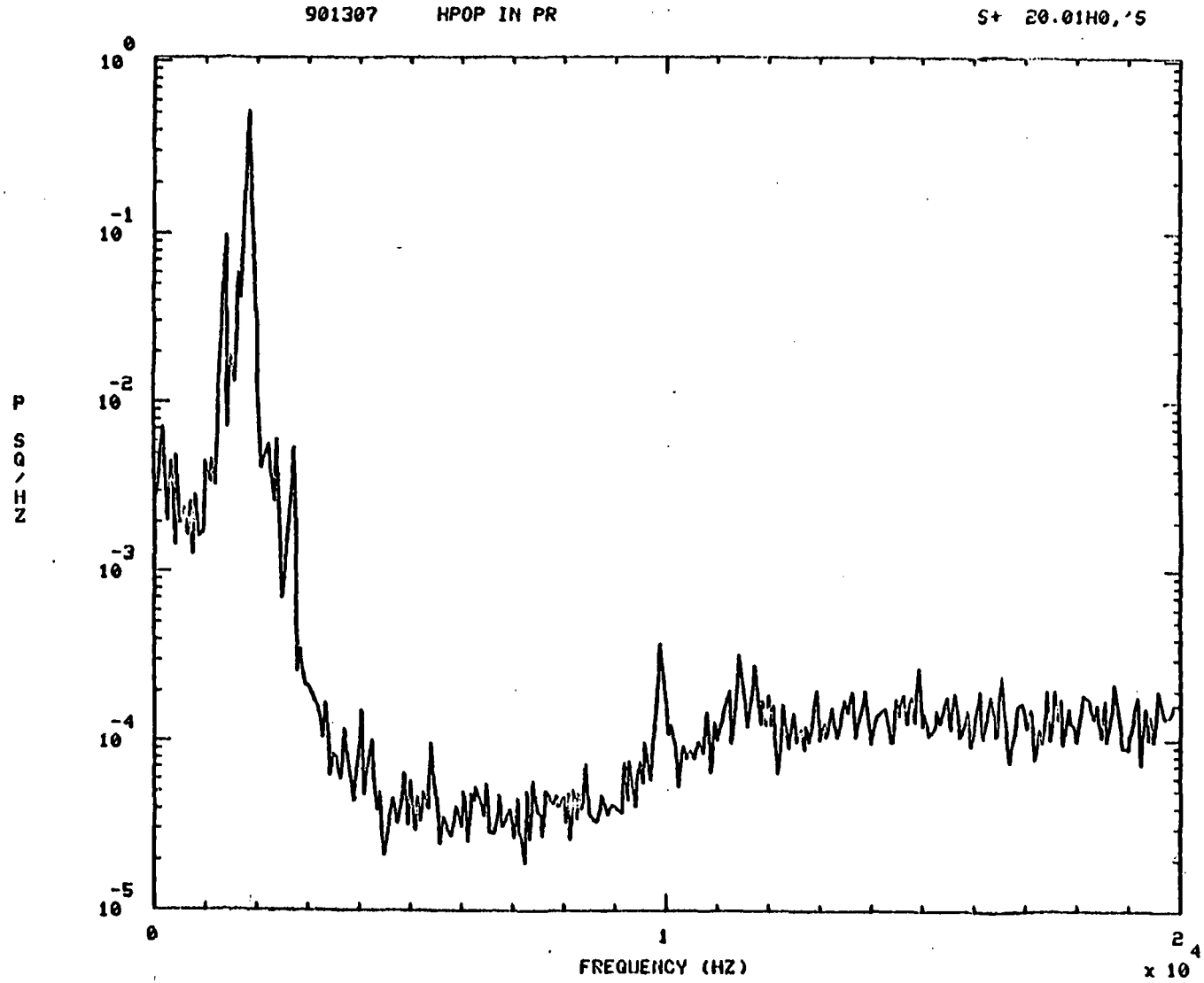

901307 FPB FUEL MAN PR
S+ 20.01H0,'S
PSD\HZ
FREQUENCY (HZ)
x 10^4
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2

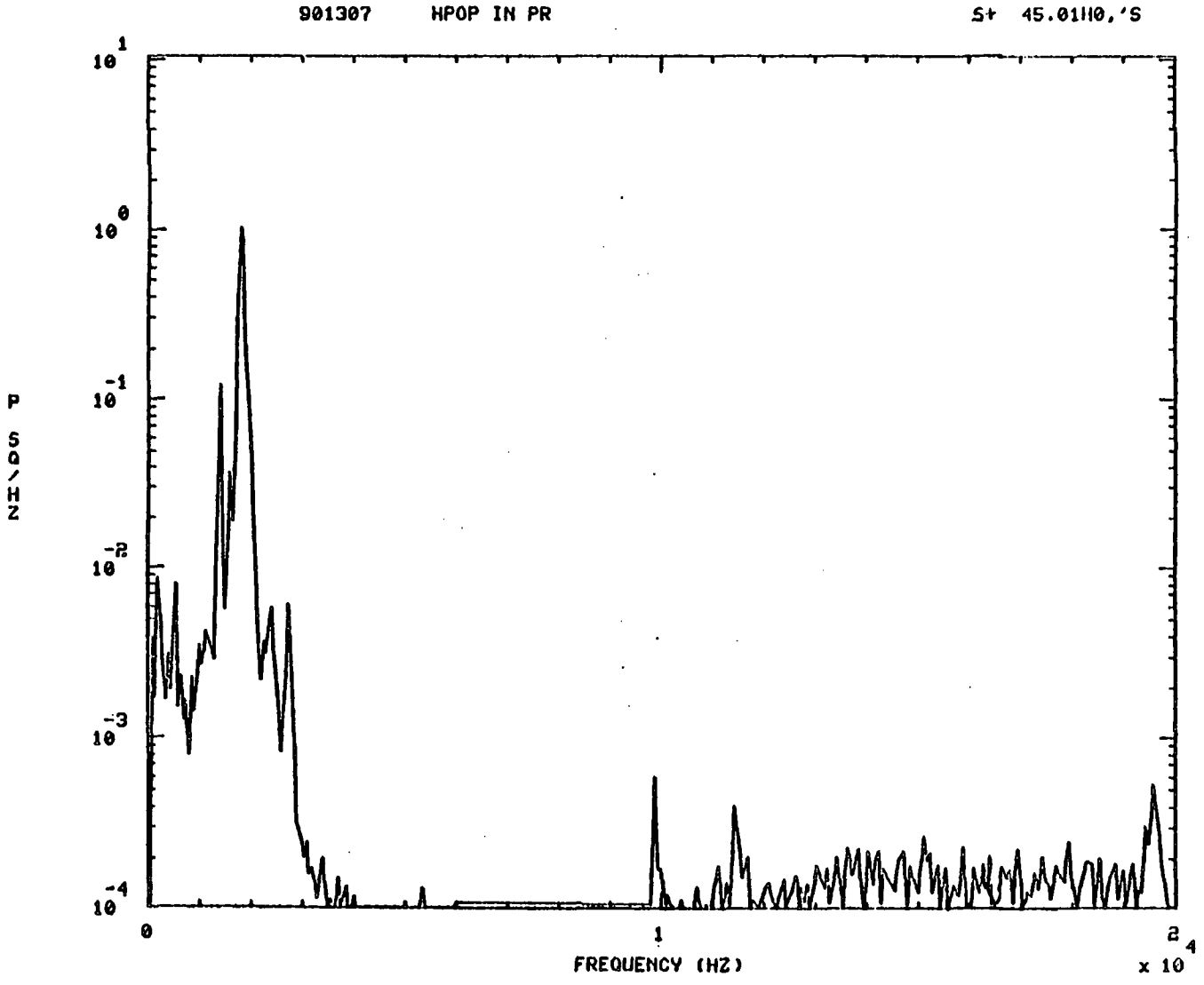
C-3

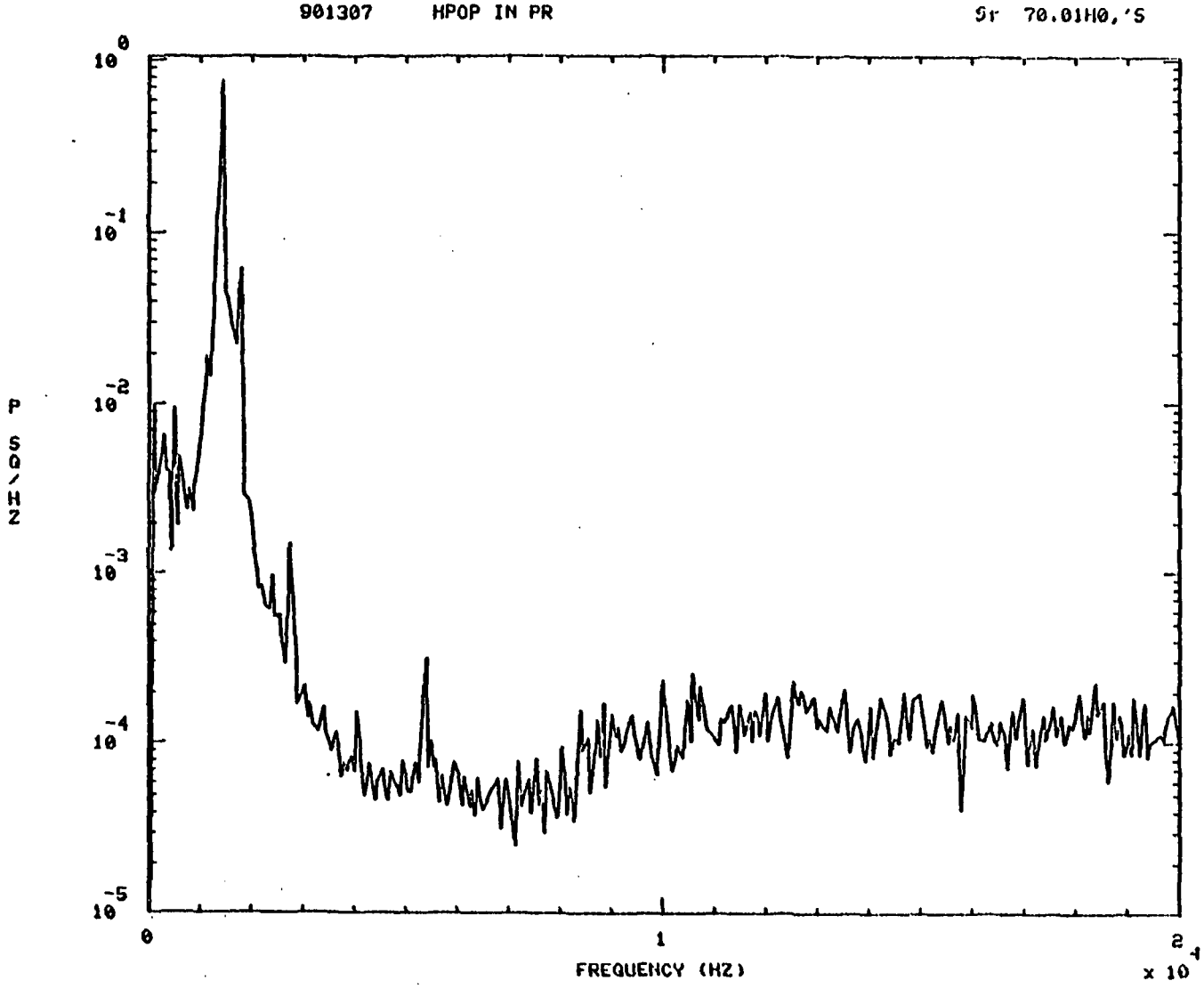

901307 FPB FUEL MAN PR
S+ 45.01H0,'S
P SQ\HZ
FREQUENCY (HZ)
x 10^4

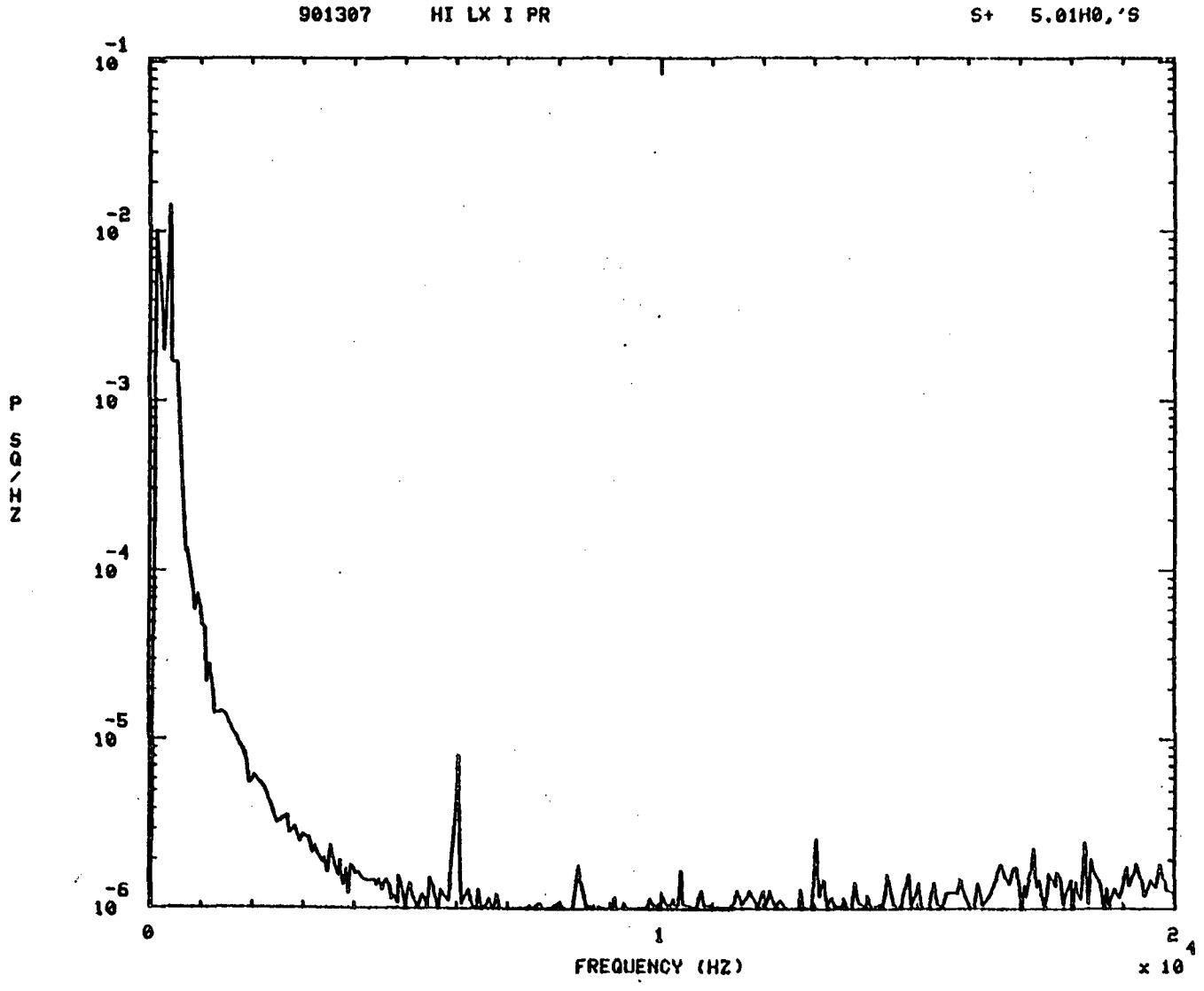

901307 FPB FUEL MAN PR
S+ 70.01H0,'S
P S Q/HZ
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
FREQUENCY (HZ)
x 10^4

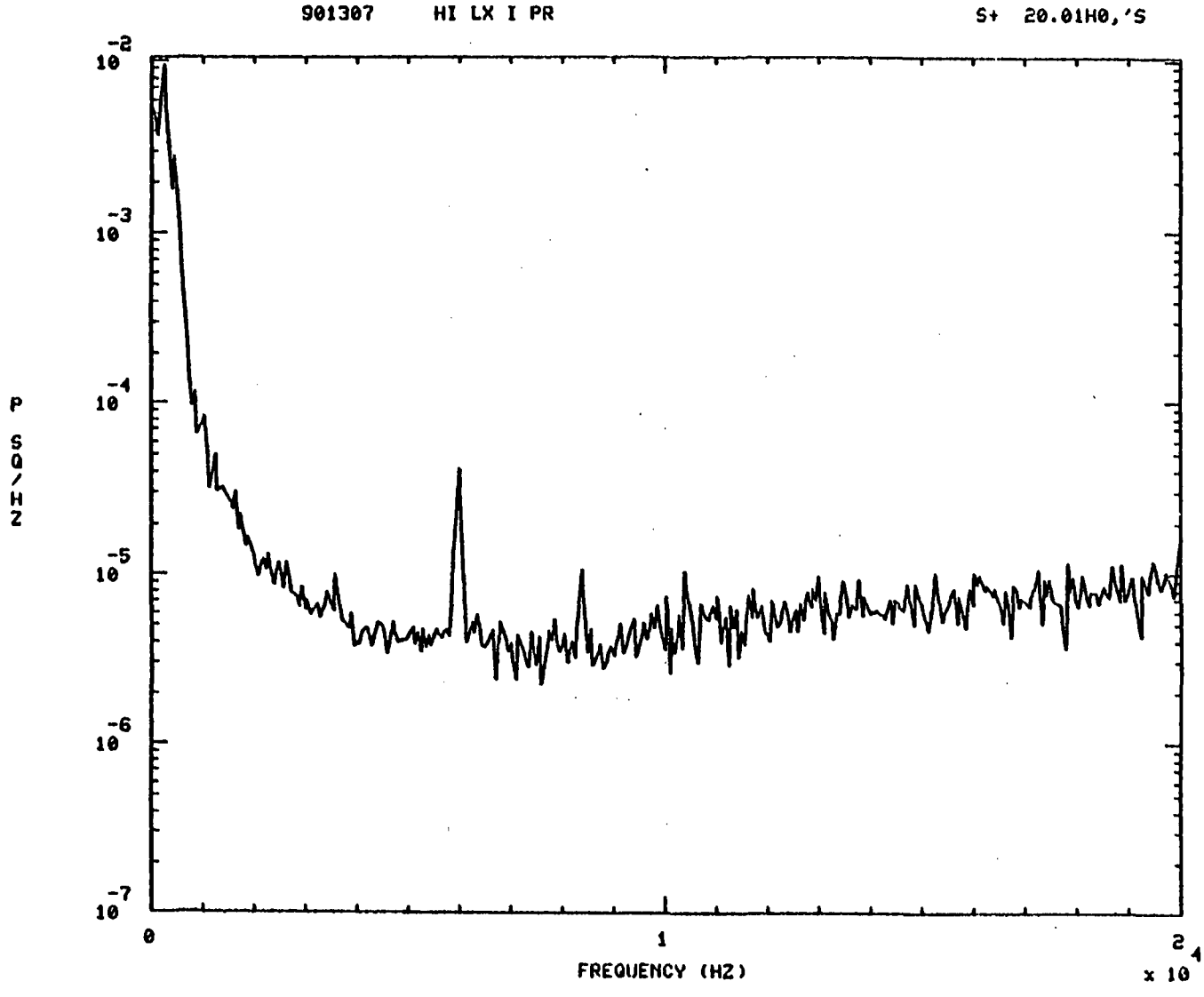

901307 HPOP IN PR
S+ 5.01H0,'S
P SQ\HZ
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4

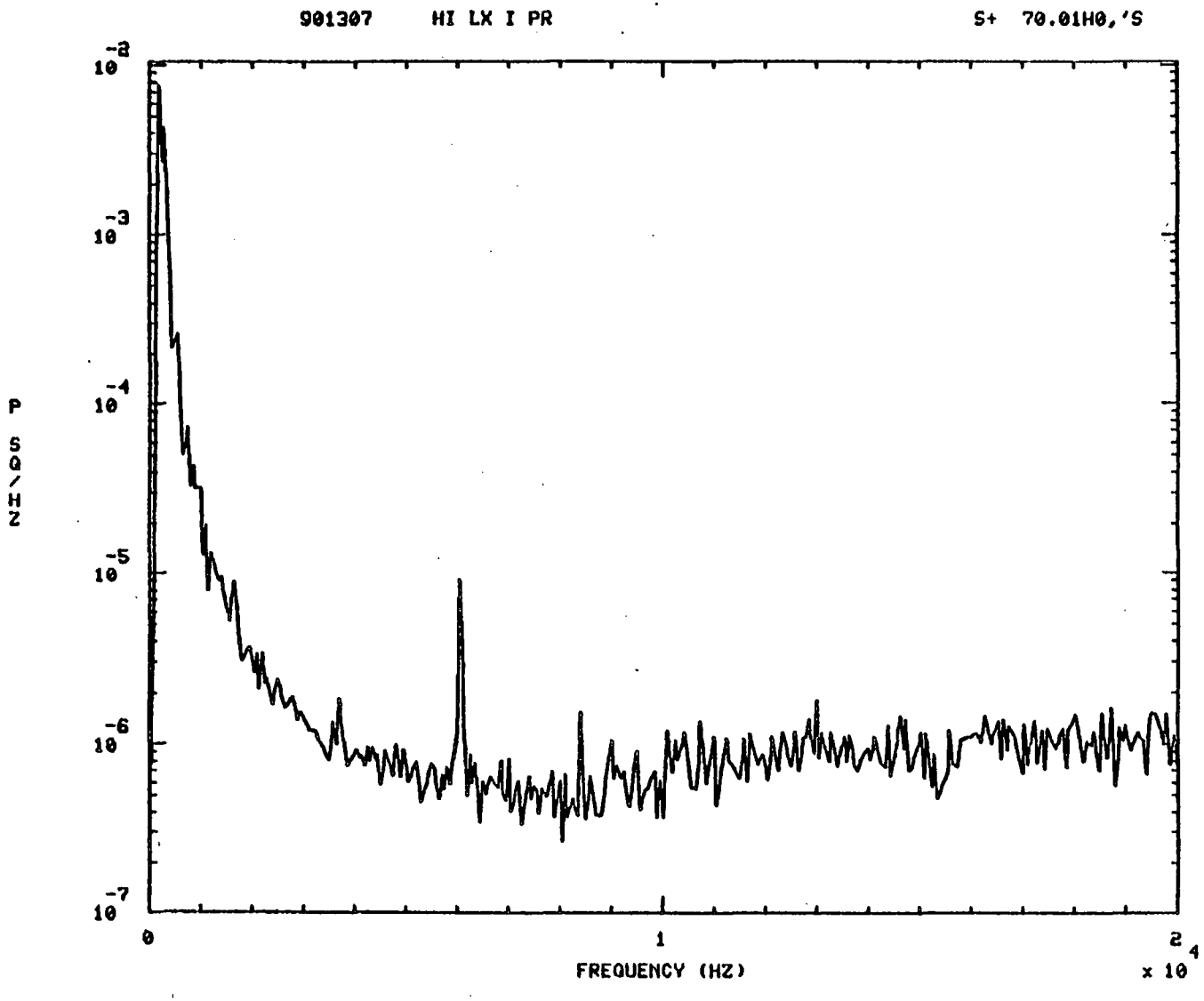

901307 HPOP IN PR
S+ 20.01H0,'5
P S Q / H Z
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
FREQUENCY (HZ)
x 10^4

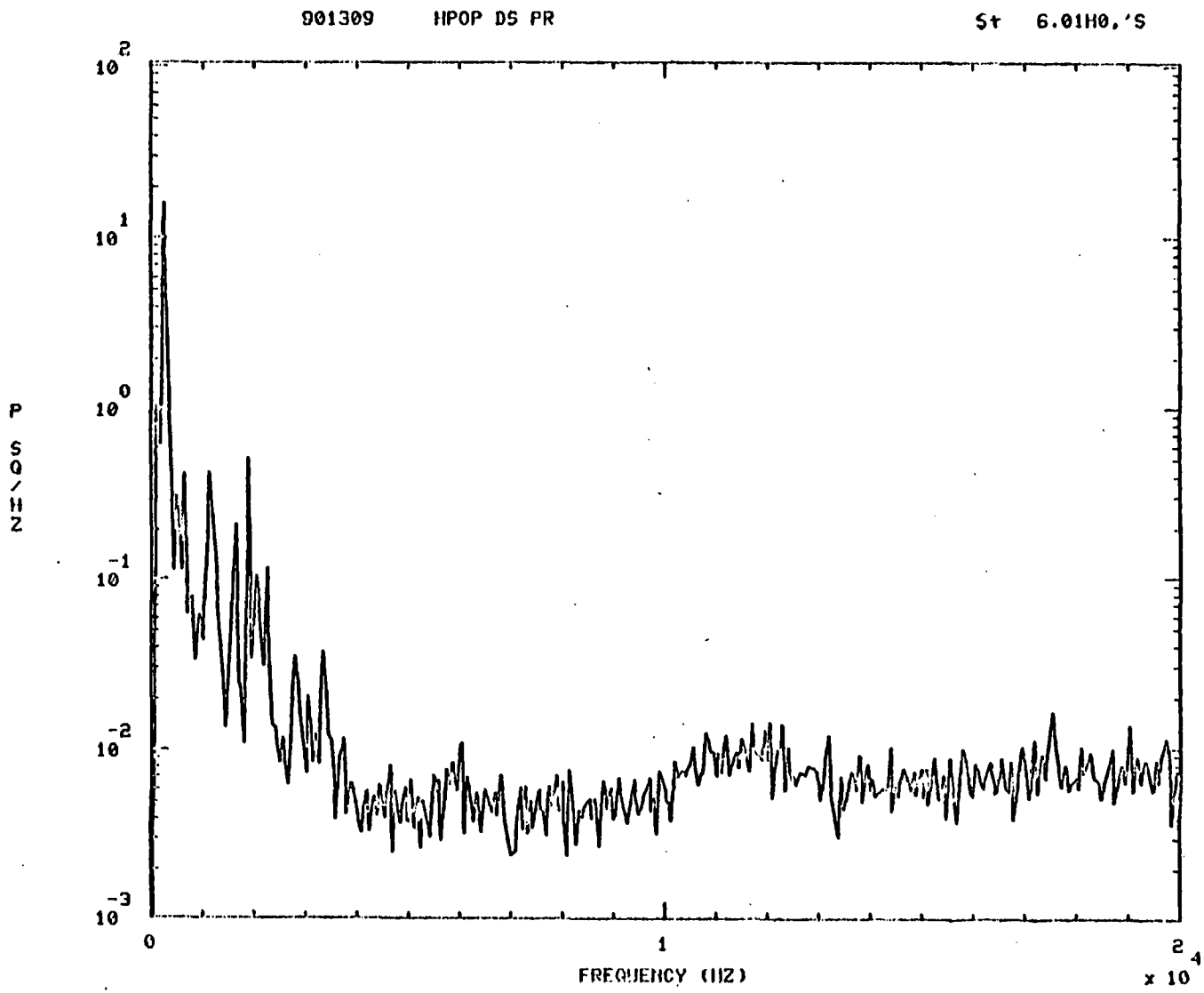

901307 HPOP IN PR
St 45.01H0,'S
P SQ\HZ
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
FREQUENCY (HZ)
x 10^4

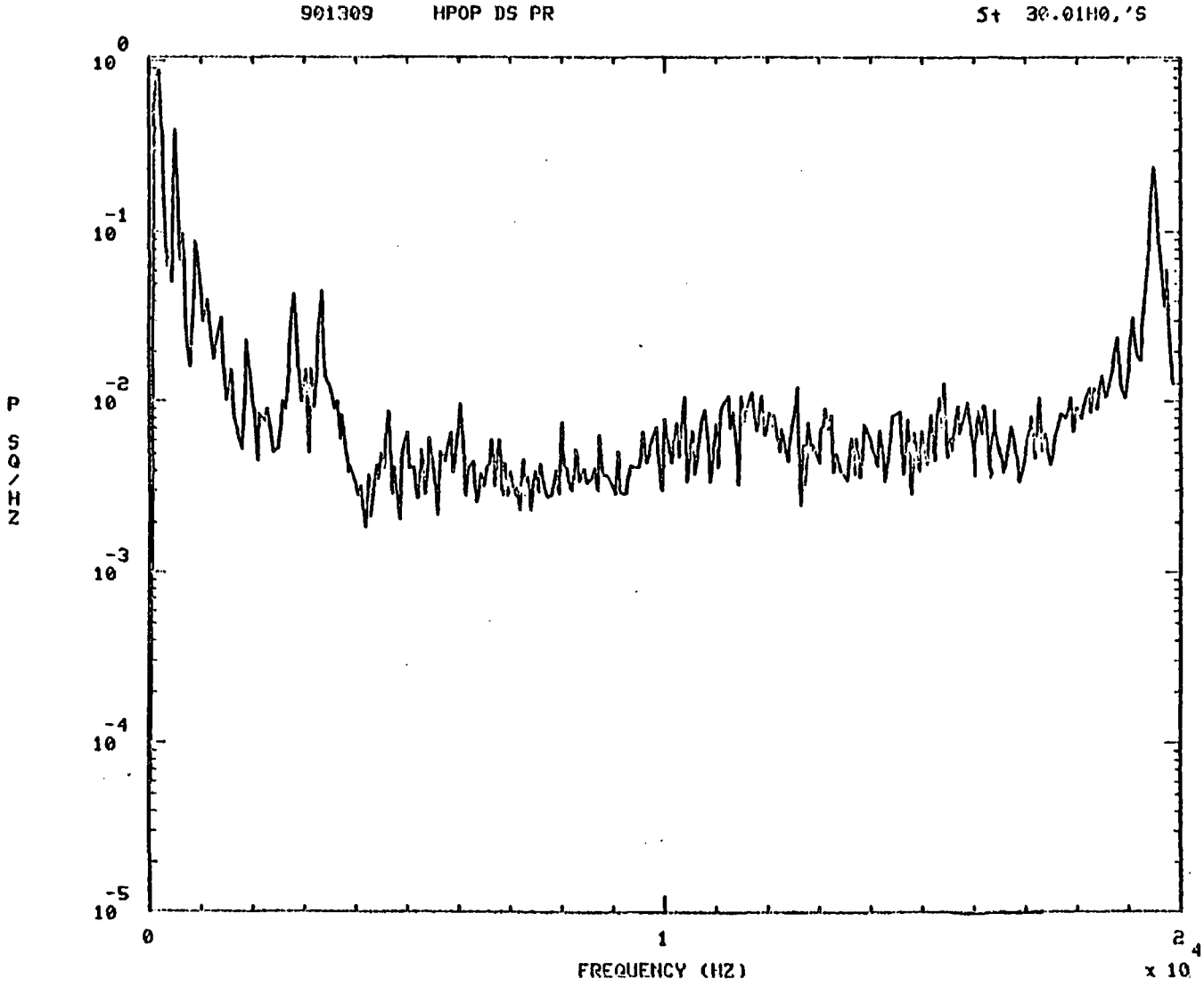

901307 HPOP IN PR
Gr 70.01H0,'S
P SQ\HZ
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
FREQUENCY (HZ)
x 10^-1

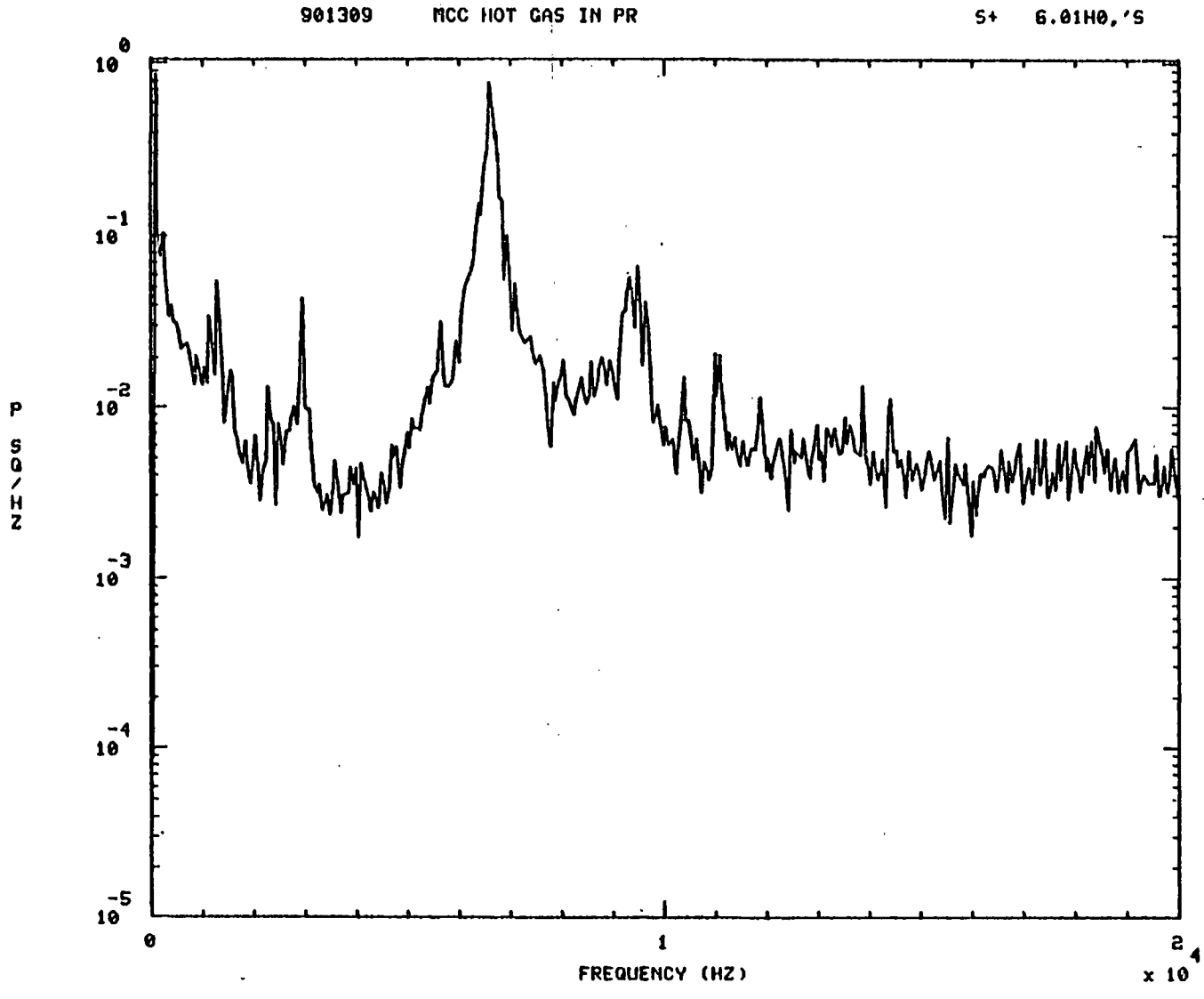

901307 HI LX I PR
S+ 5.01H0,'S
P SQ/HZ
10^-1
10^-2
10^-3
10^-4
10^-5
10^-6
0
1
2
FREQUENCY (HZ)
x 10^4

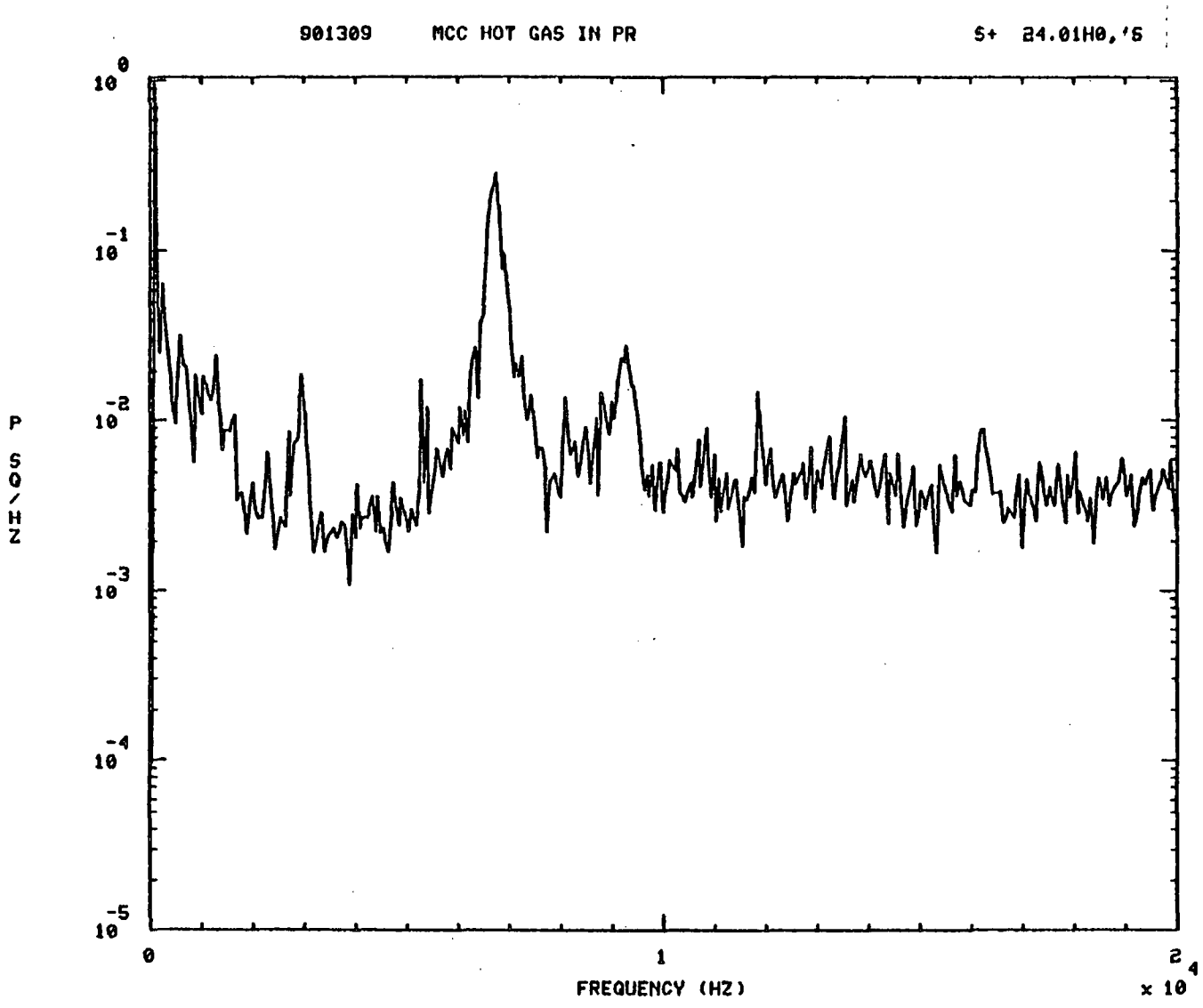

901307 HI LX I PR
S+ 20.01H0,'S
P S Q / H Z
10^-2
10^-3
10^-4
10^-5
10^-6
10^-7
0
1
2
FREQUENCY (HZ)
x 10^4

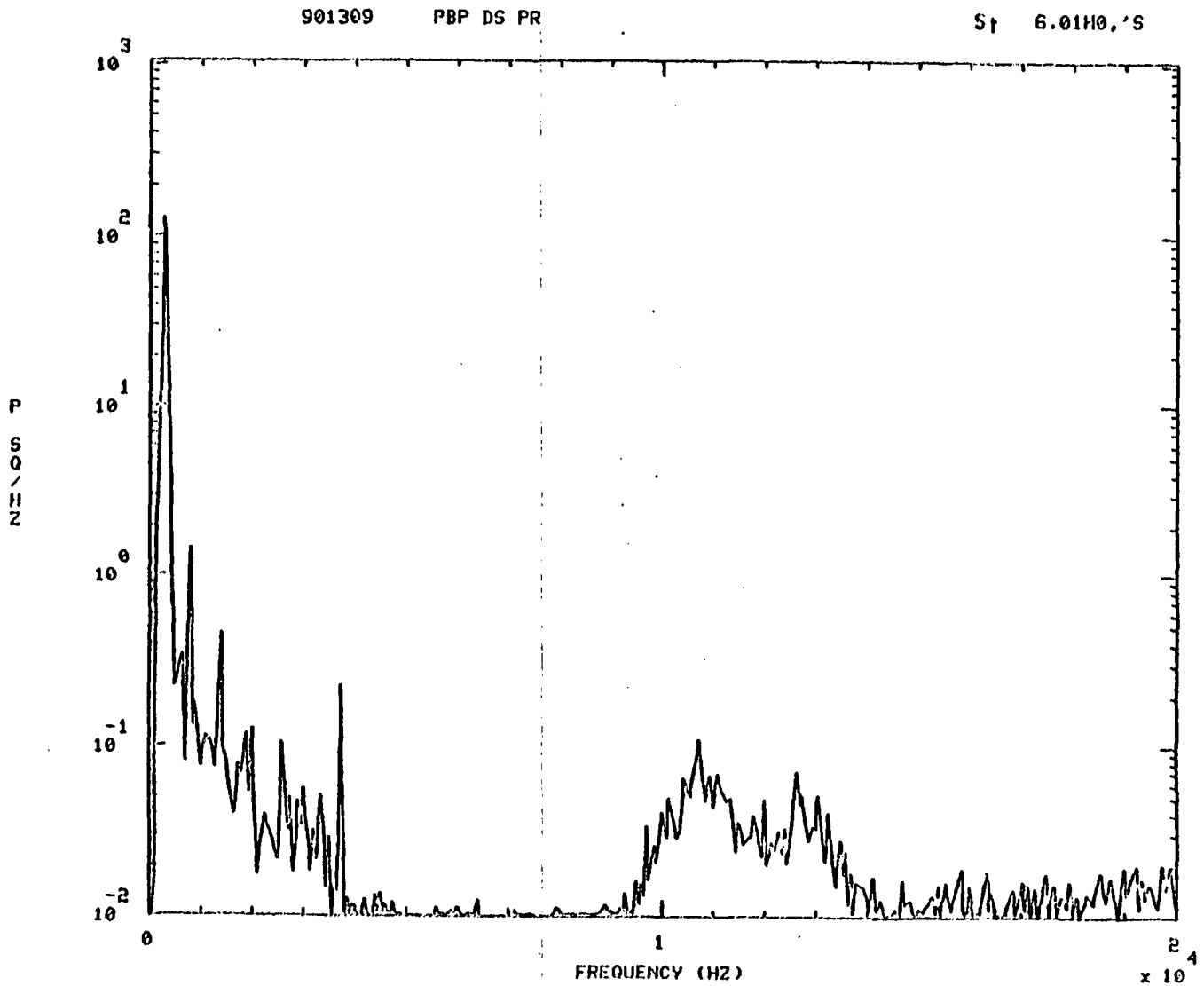

901307 HI LX I PR
S+ 70.01H0,'S
P SQ\HZ
10^-2
10^-3
10^-4
10^-5
10^-6
10^-7
0
1
2
FREQUENCY (HZ)
x 10^4

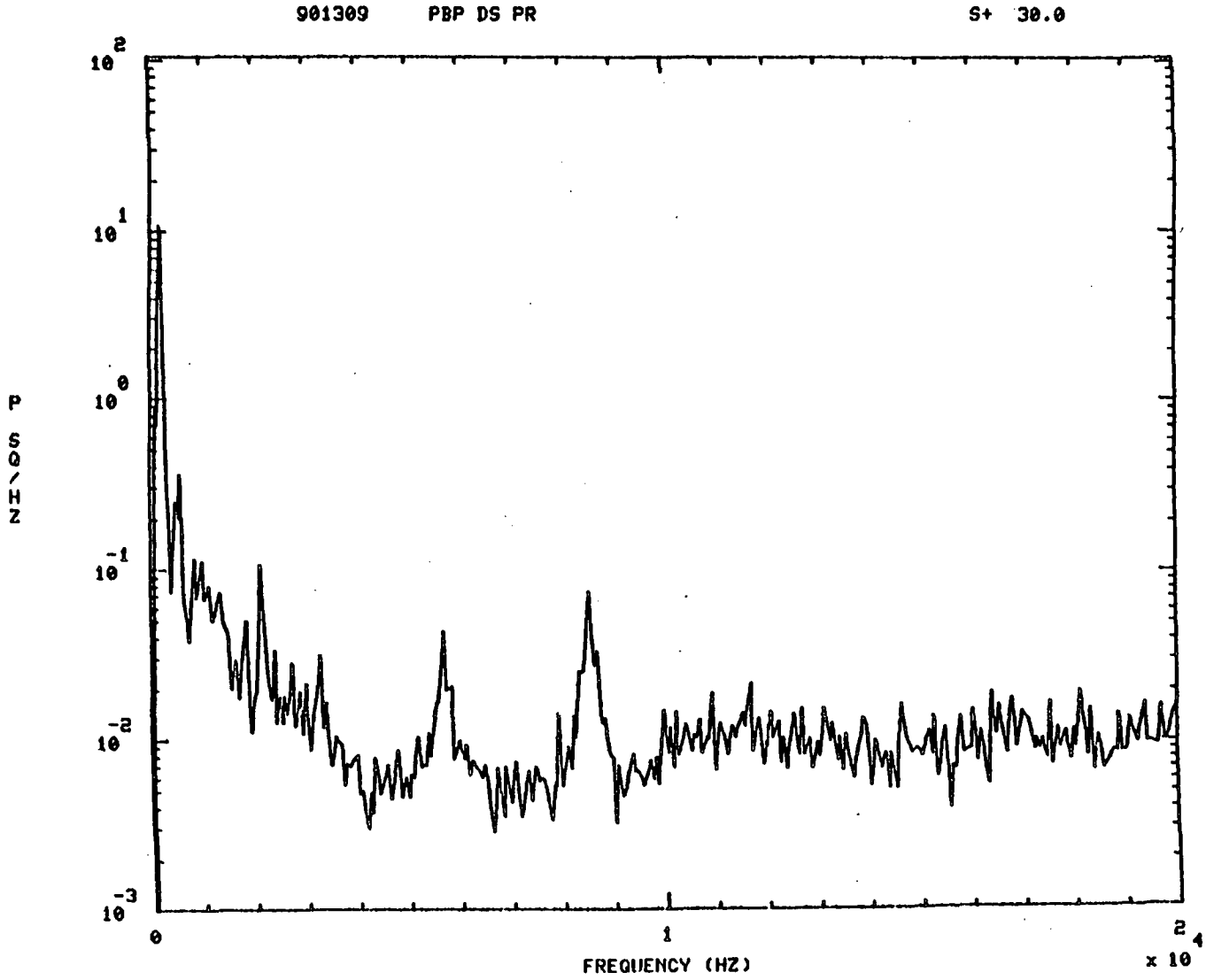

901309 HPOP DS PR
St 6.01H0,'S
P
S
Q
/
H
Z
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4

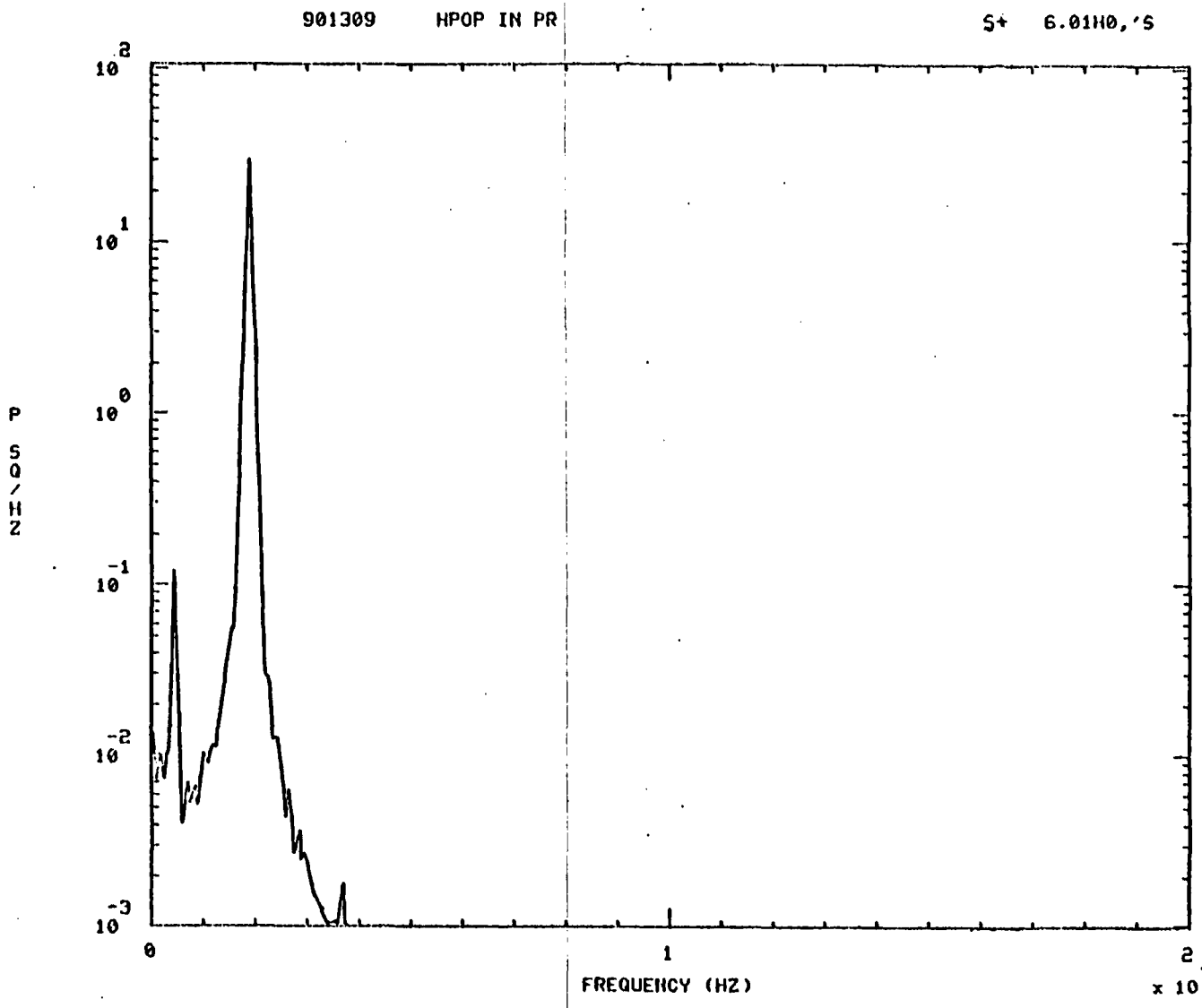

901309 HPOP DS PR
St 30.01H0,'S
P SQ/HZ
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
FREQUENCY (HZ)
x 10^4

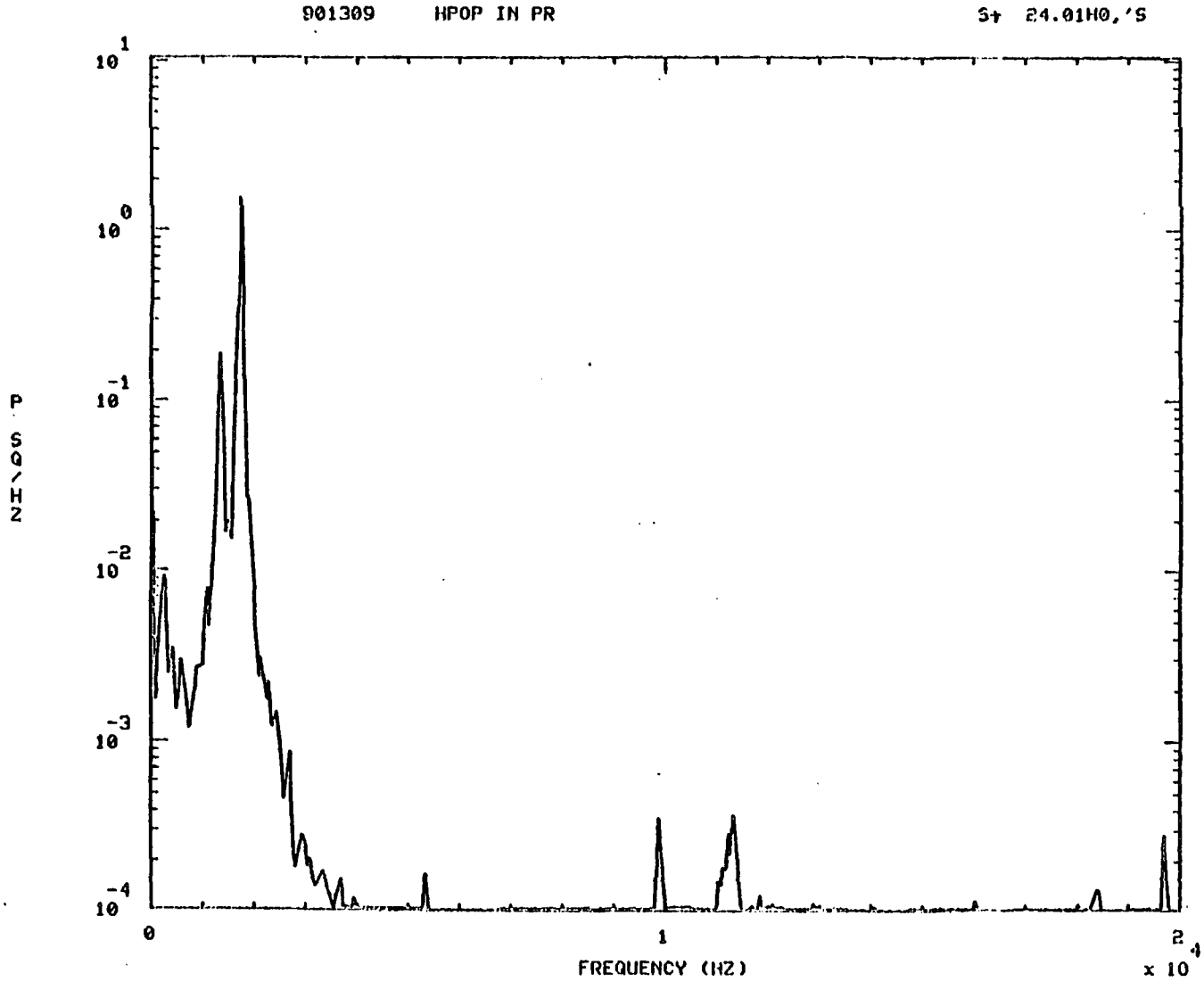

901309 MCC HOT GAS IN PR S+ 6.01H0,'S
P SQ\HZ
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
FREQUENCY (HZ)
x 10^4

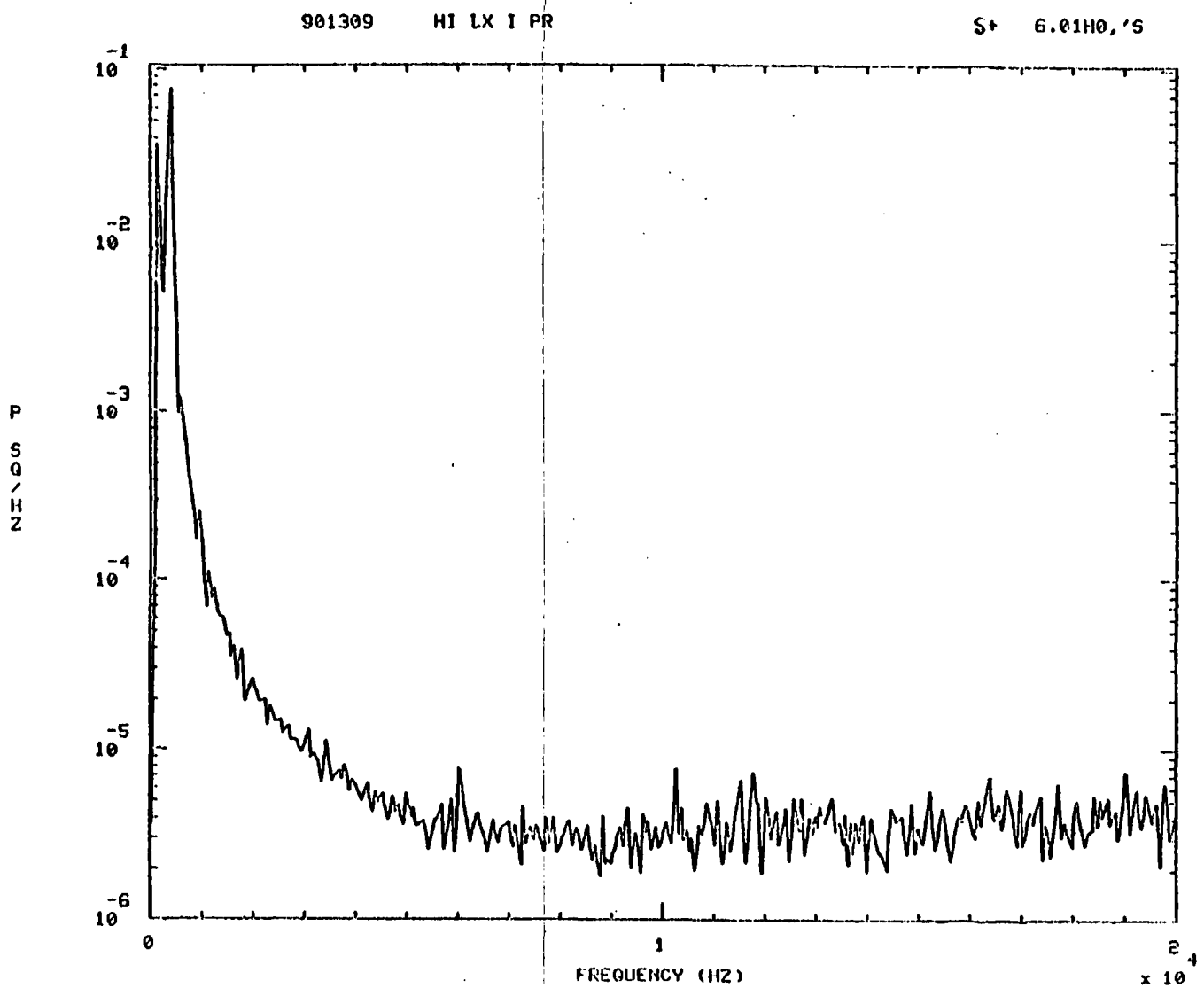

901309 MCC HOT GAS IN PR
S+ 24.01H0,'6
P SQ\HZ
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
FREQUENCY (HZ)
x 10^4

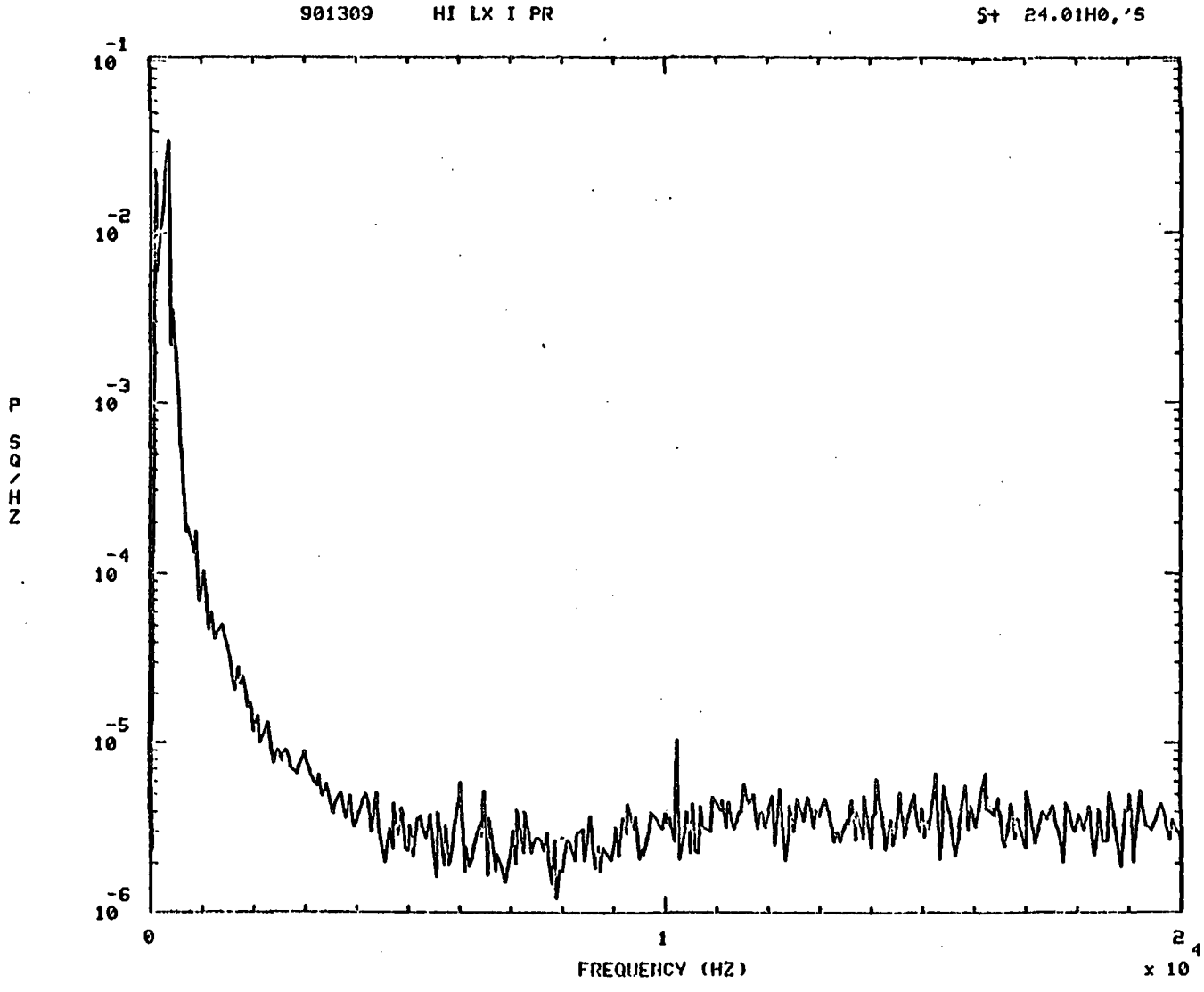

901309 PBP DS PR
S↑ 6.01H0,'S
P S Q/H2
10^3
10^2
10^1
10^0
10^-1
10^-2
0
1
2
FREQUENCY (HZ)
x 10^4

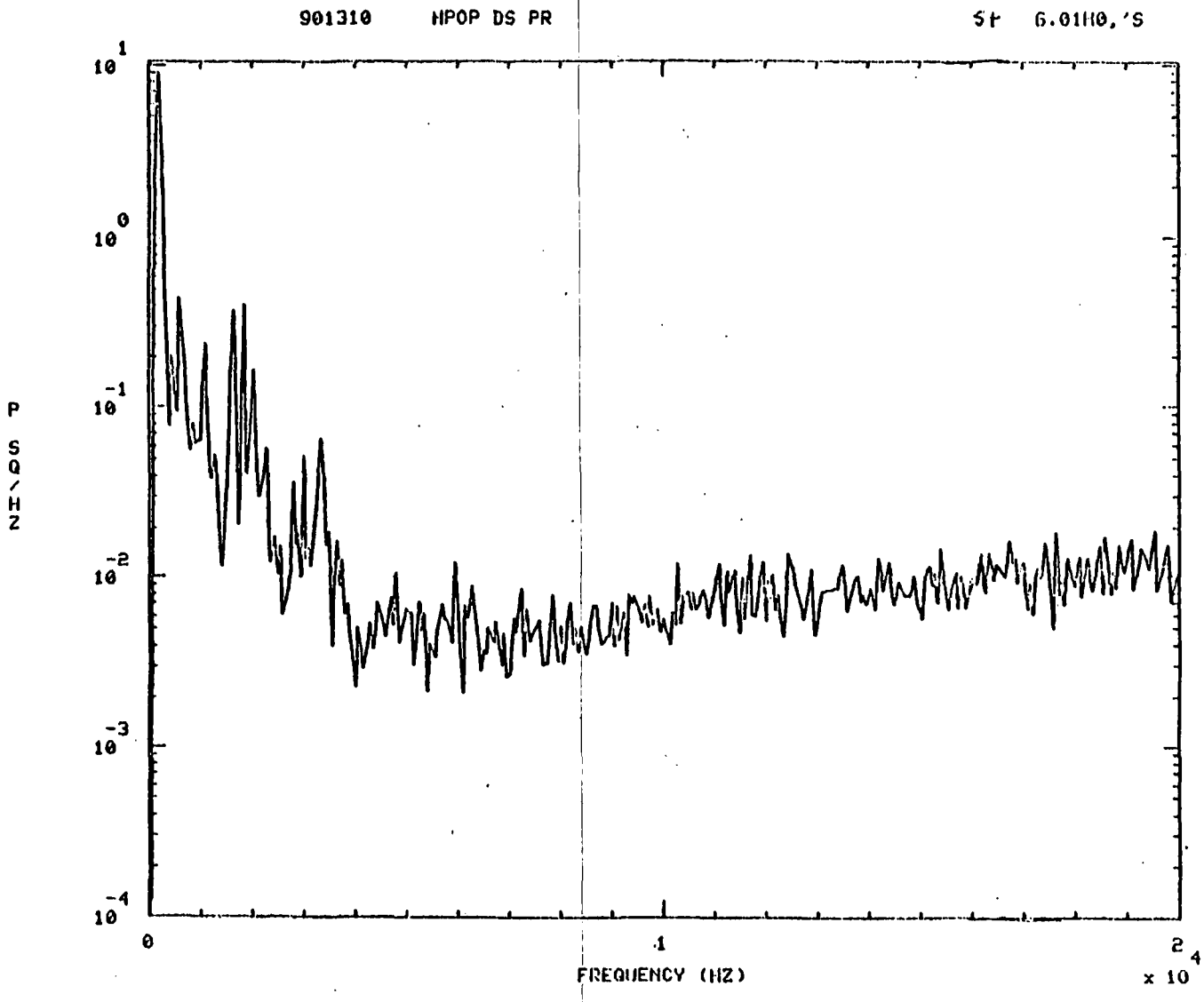

901309 PBP DS PR
S+ 30.0
P SQ/HZ
10^{2}
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-3}
0
1
2
FREQUENCY (HZ)
x 10^{4}

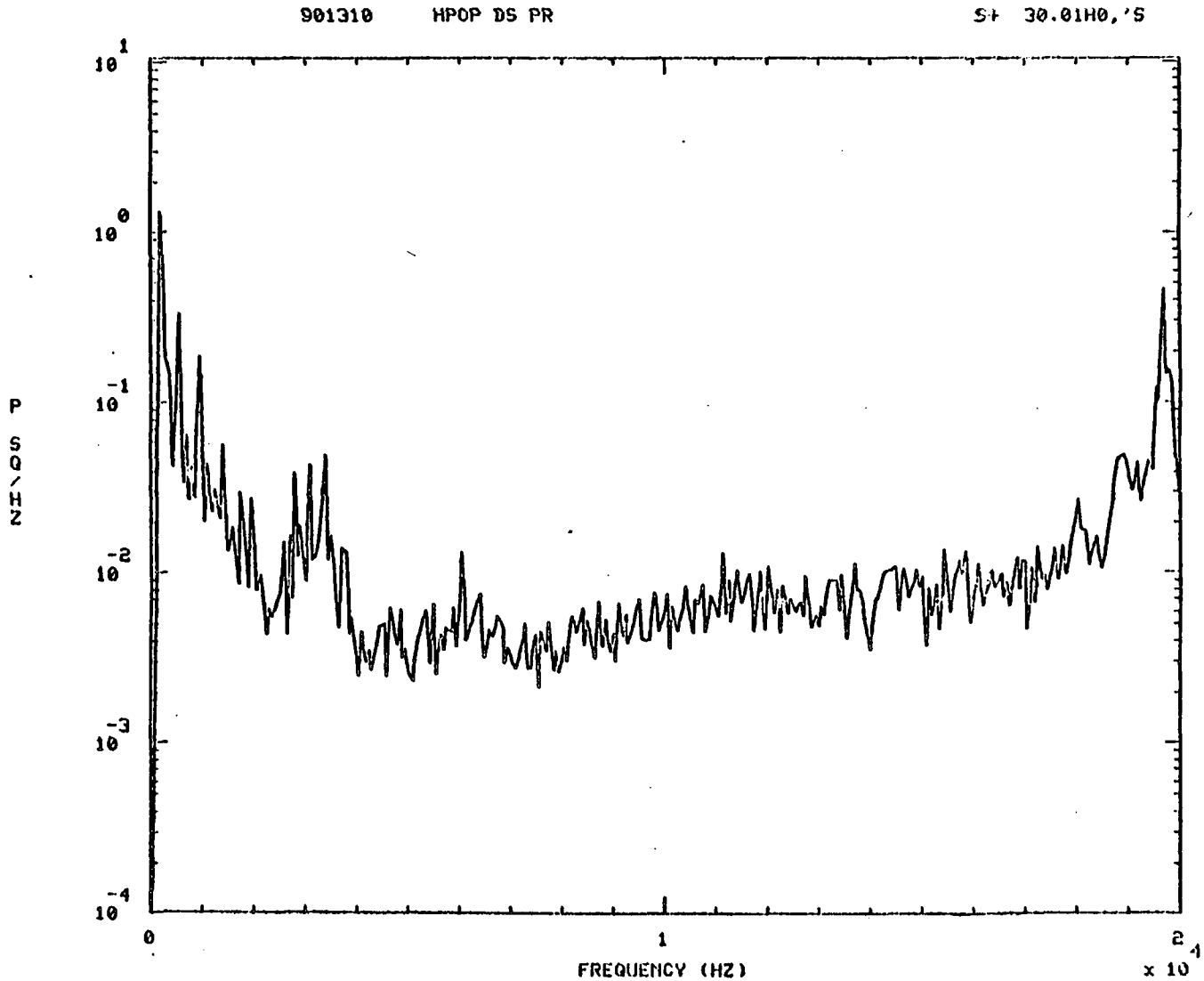

901309 HPOP IN PR
S+ 6.01H0,'S
P S Q / H Z
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4

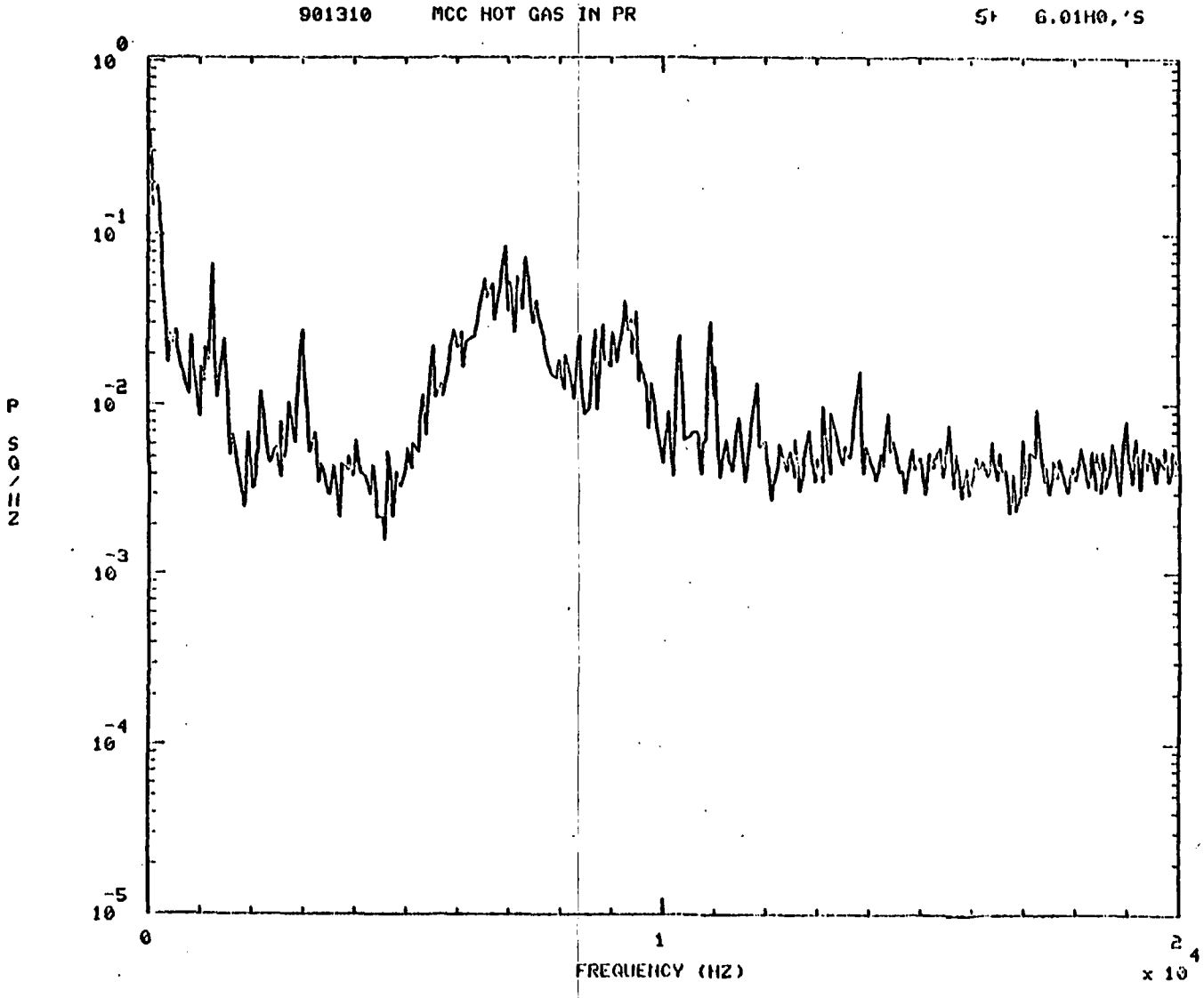

901309 HPOP IN PR
S+ 24.01H0,'S
P SQ\HZ
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
FREQUENCY (HZ)
x 10^4

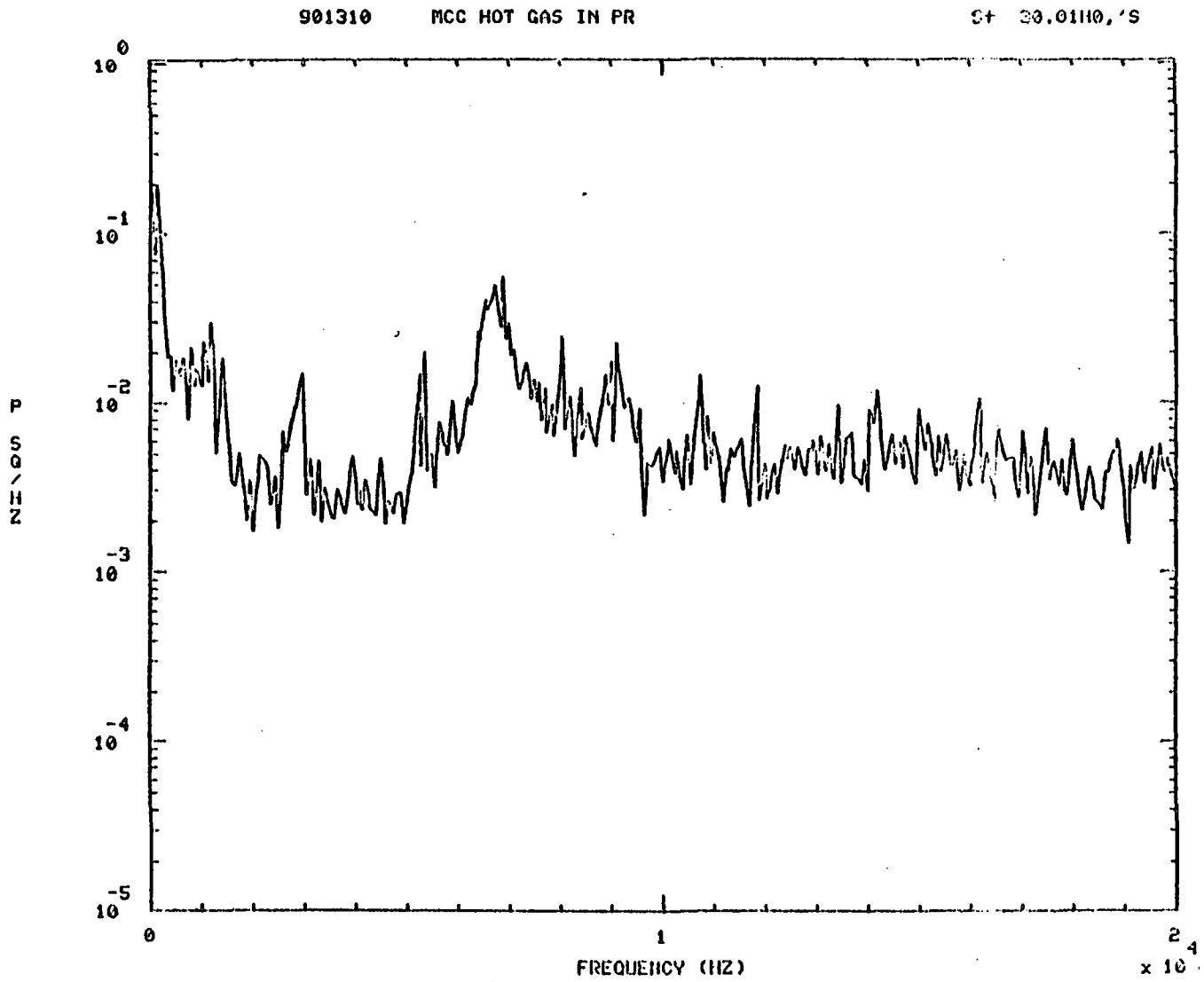

901309 HI LX I PR
S+ 6.01H0,'S
P S Q / H Z
10^-1
10^-2
10^-3
10^-4
10^-5
10^-6
0
1
2
FREQUENCY (HZ)
x 10^4

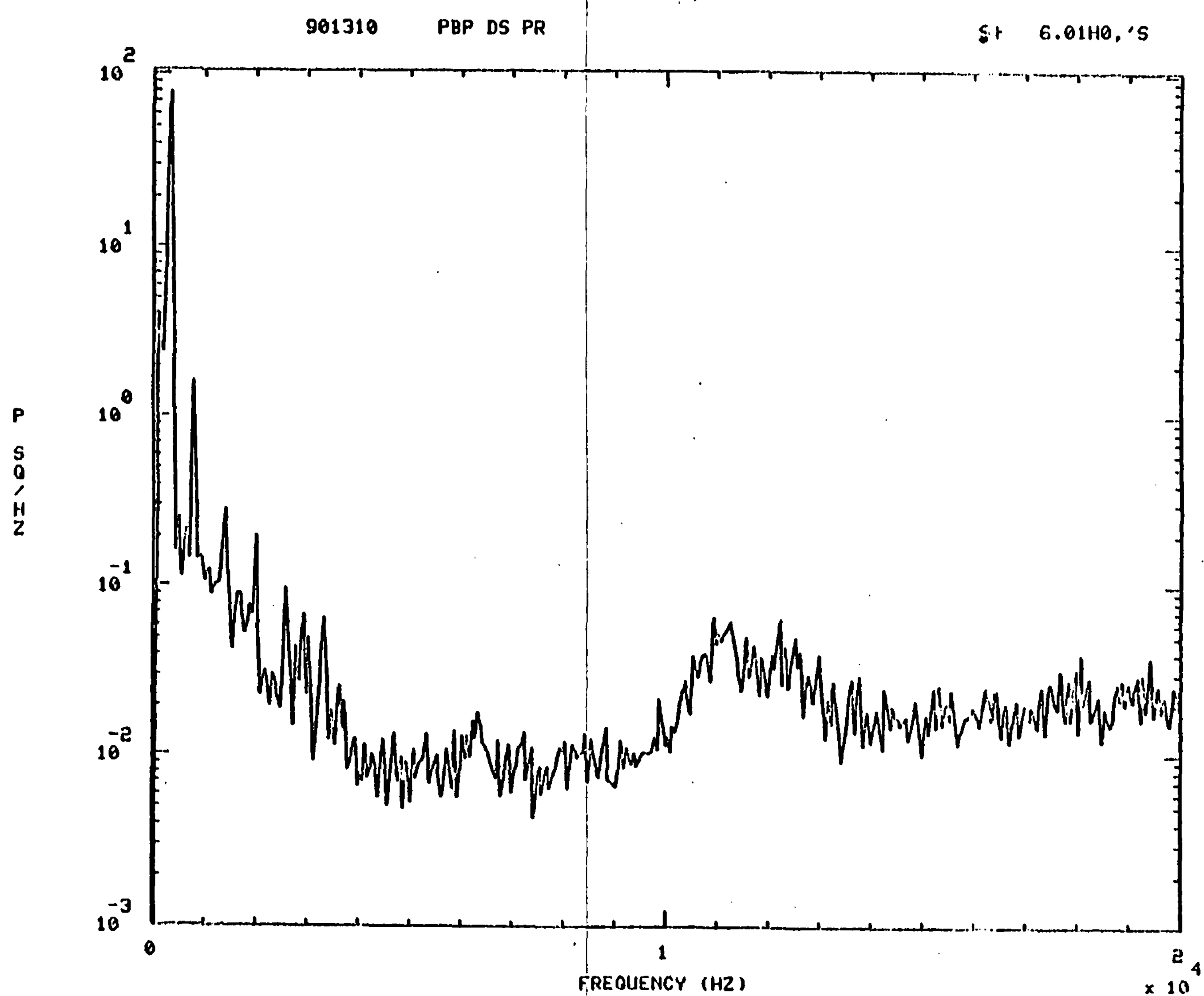

901309 HI LX I PR
S+ 24.01H0,'S
P S Q \ H Z
10^-1
10^-2
10^-3
10^-4
10^-5
10^-6
0
1
2
FREQUENCY (HZ)
x 10^4


901310 HPOP DS PR
10^1
10^0
10^-1
10^-2
10^-3
10^-4
P SQ/HZ
0
.1
2
4
x 10
FREQUENCY (HZ)

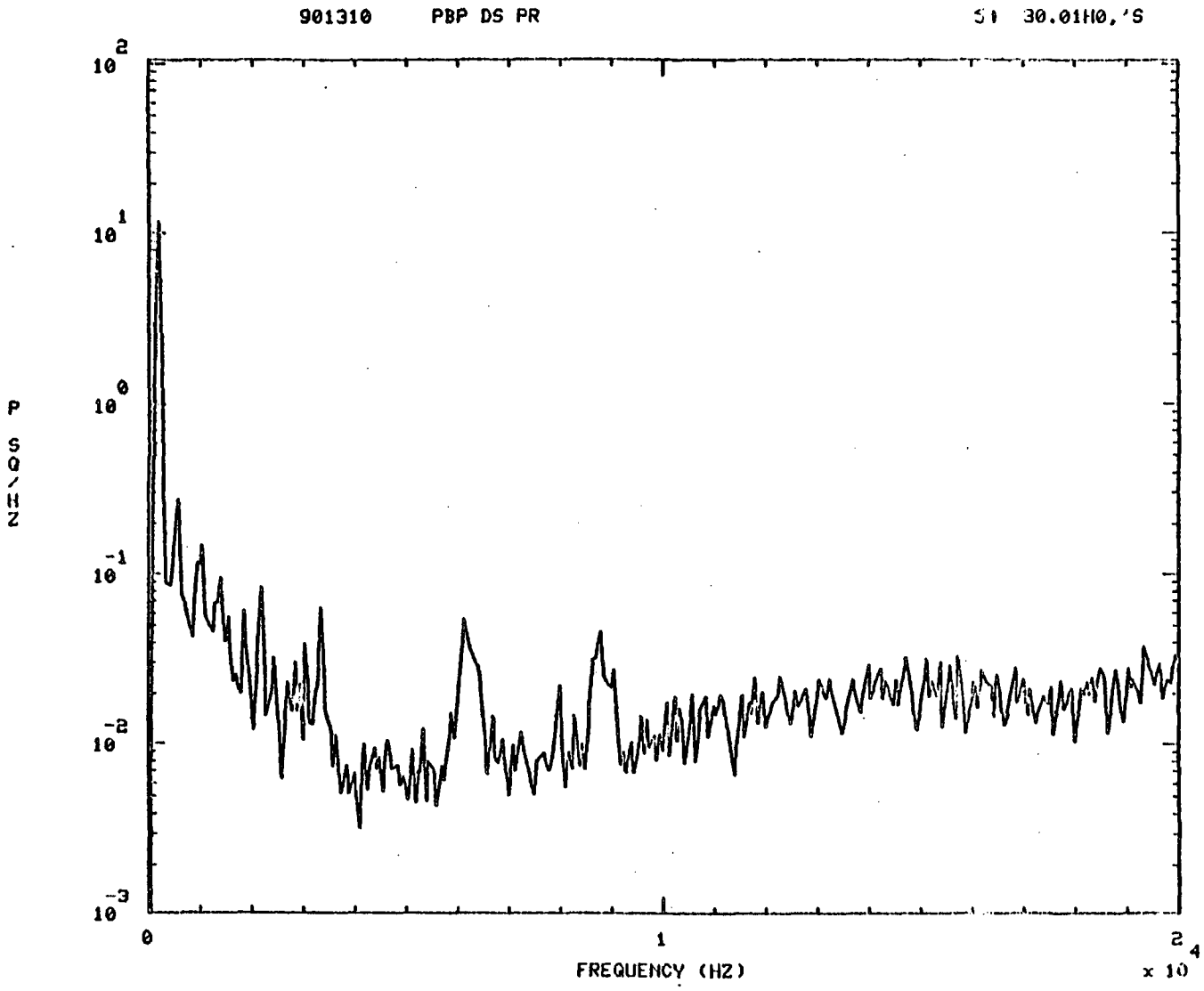

901310 HPOP DS PR
SI 30.01H0,'S
P S Q \ H Z
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
FREQUENCY (HZ)
x 10^-1

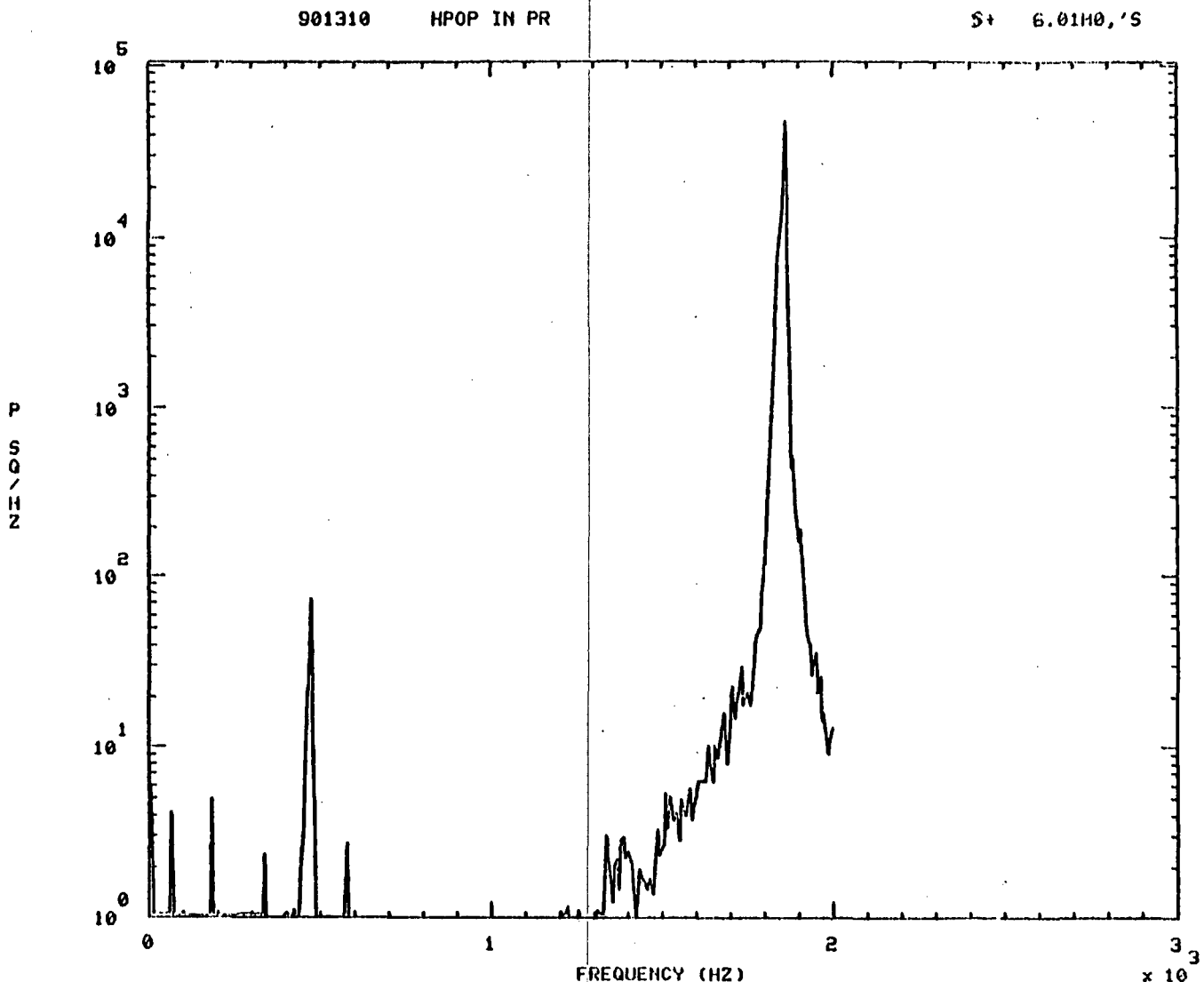

901310 MCC HOT GAS IN PR
5+ G.01H0,'S
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
P S Q \ H Z
0
1
2
FREQUENCY (HZ)
x 10^4

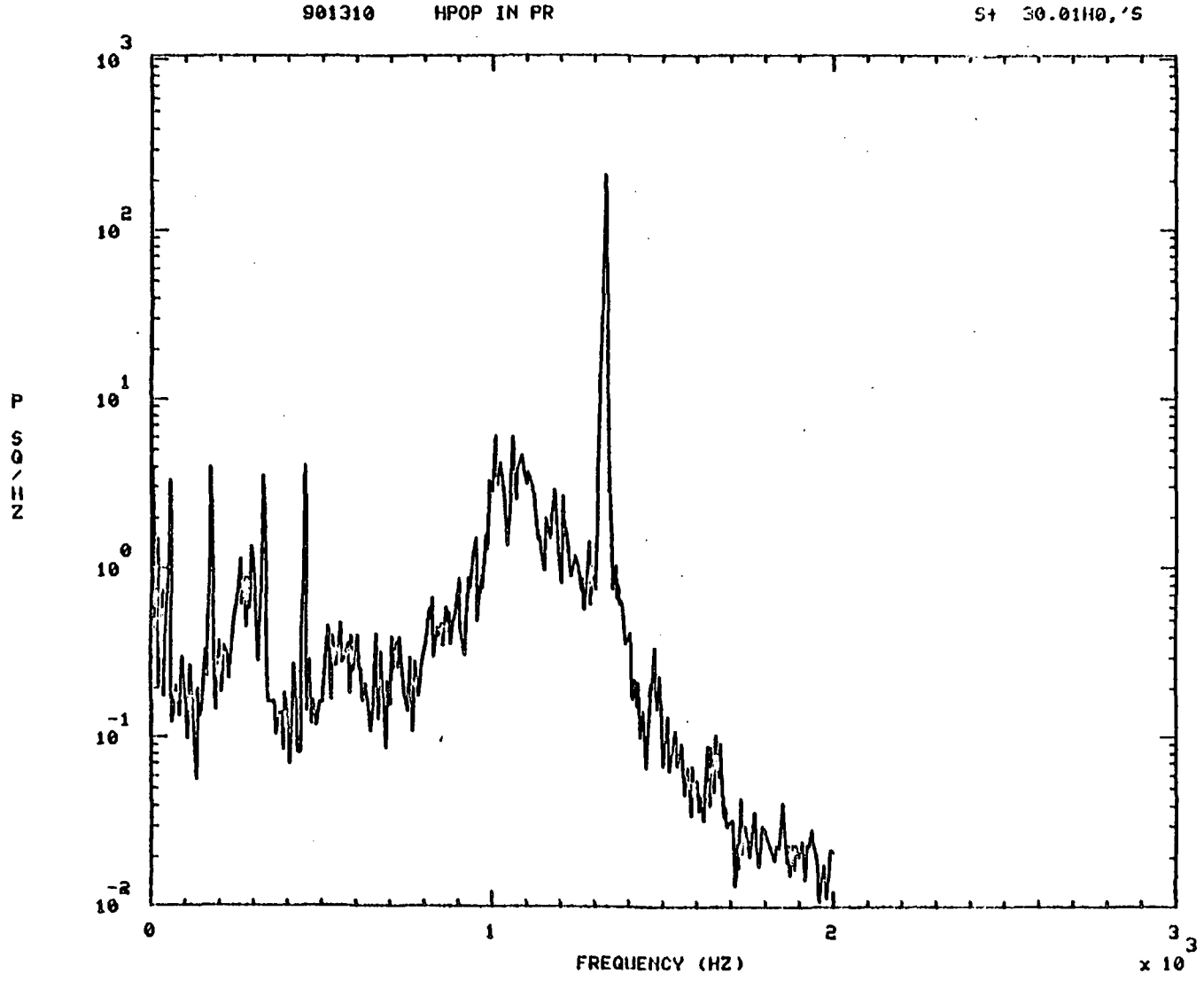

901310 MCC HOT GAS IN PR
P SQ/HZ
FREQUENCY (HZ)
x 10^4

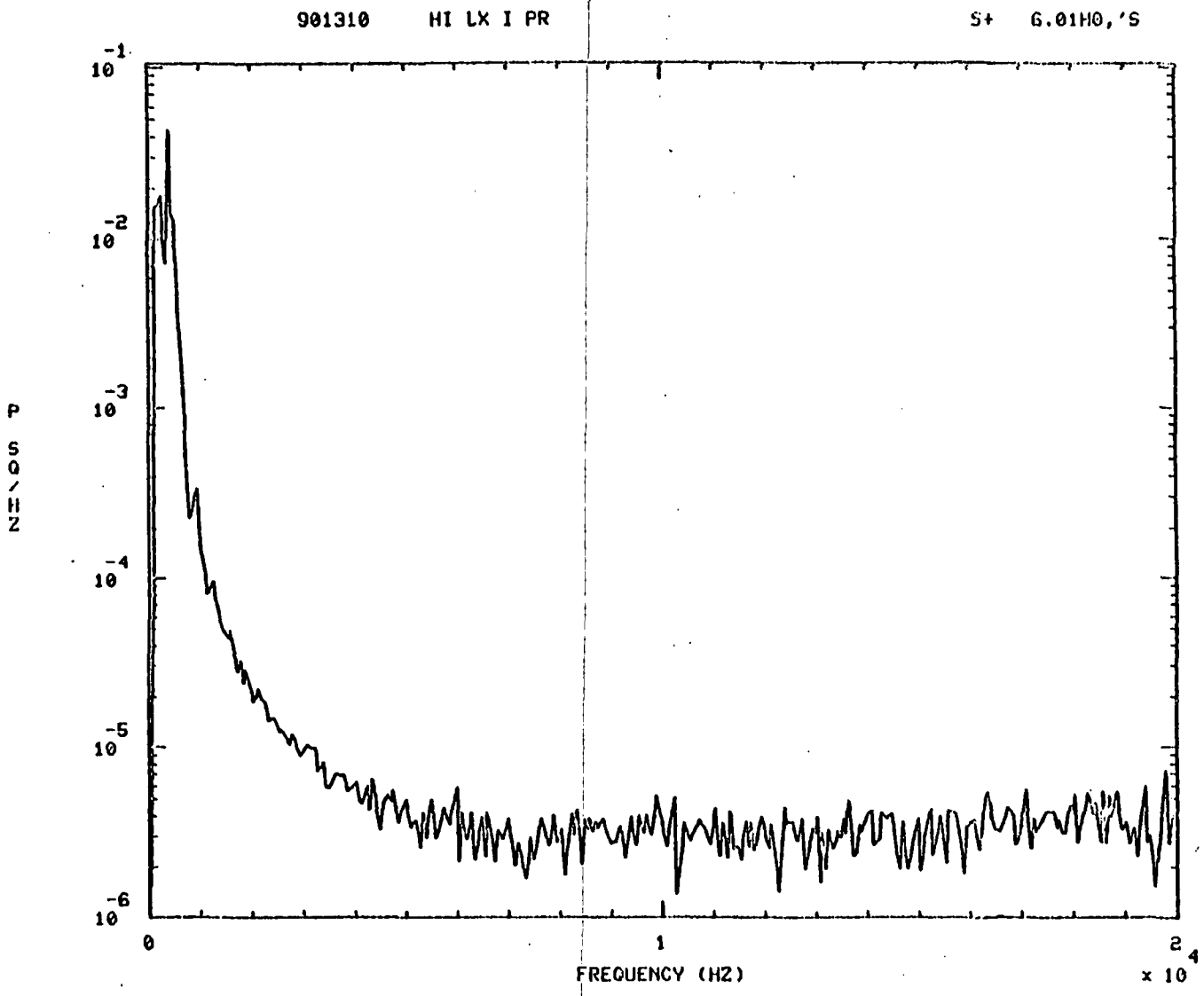


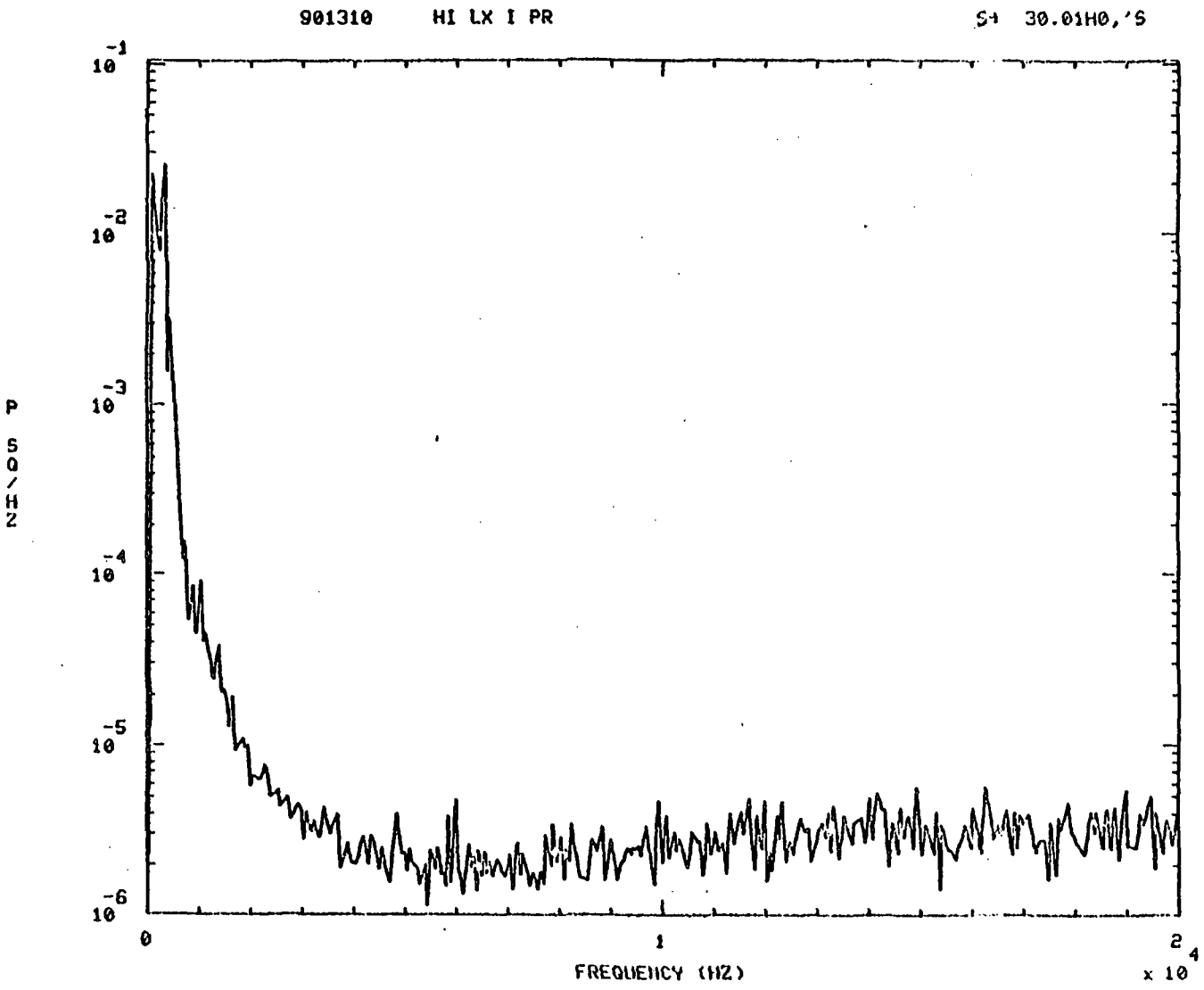
901310 PBP DS PR
6.01H0,'S
P SQ/HZ
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4

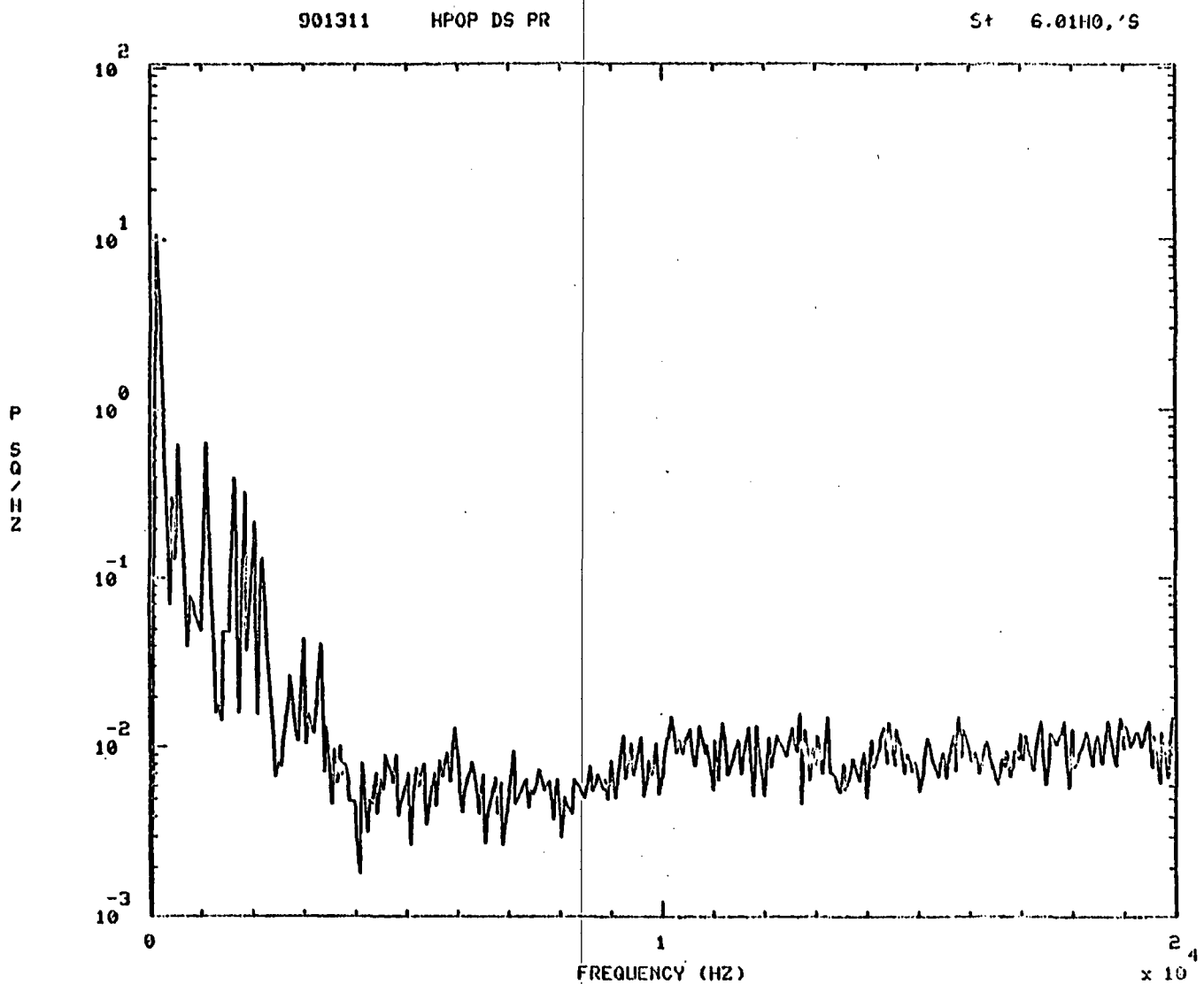

901310 PBP DS PR
51 30.01H0,'S
P SQ\HZ
10^{2}
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-3}
0
1
2
FREQUENCY (HZ)
x 10^{4}

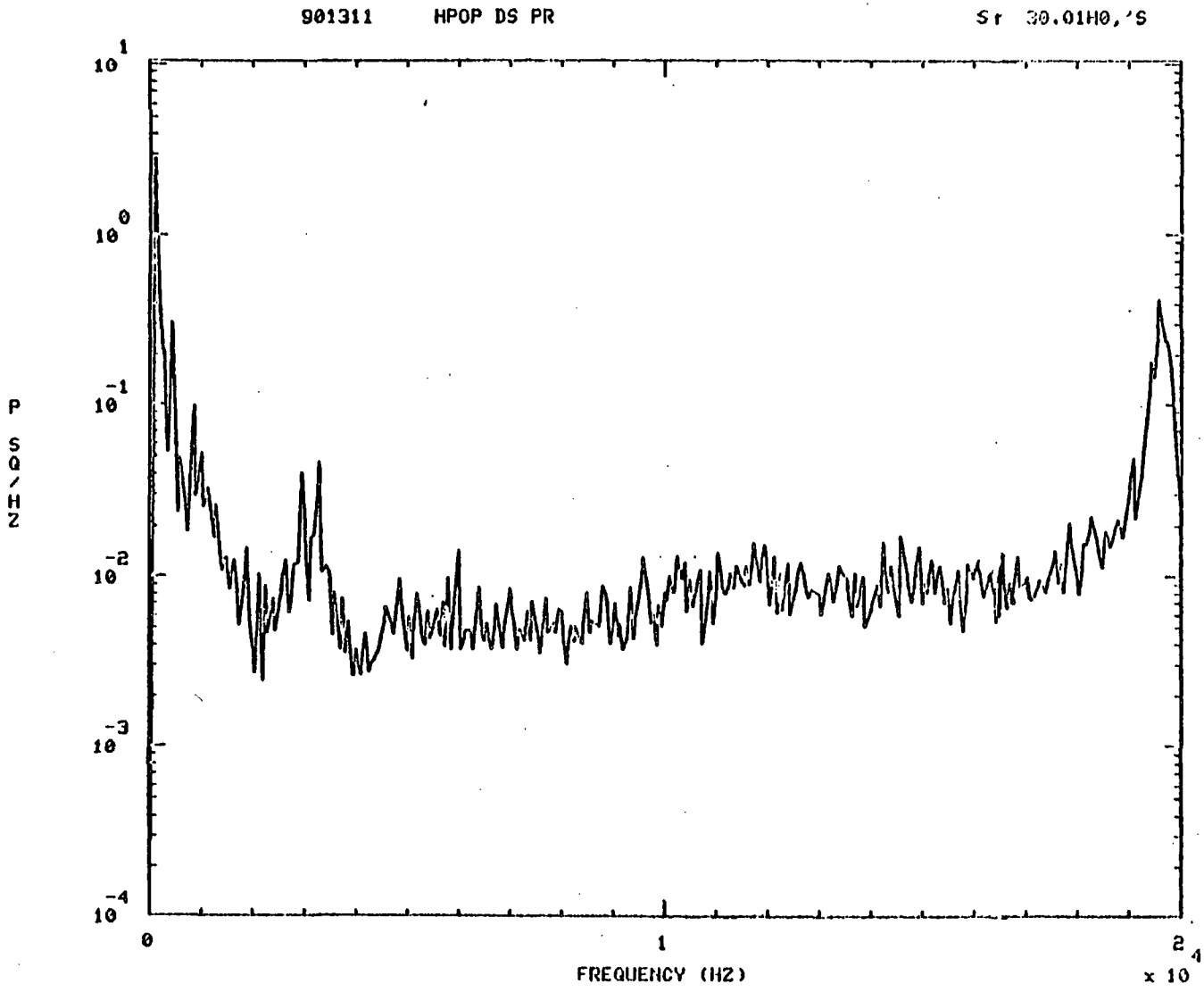

901310 HPOP IN PR
S+ 6.01H0,'S
10^5
10^4
10^3
10^2
10^1
10^0
P
SQ/HZ
0
1
2
3
FREQUENCY (HZ)
x 10^3

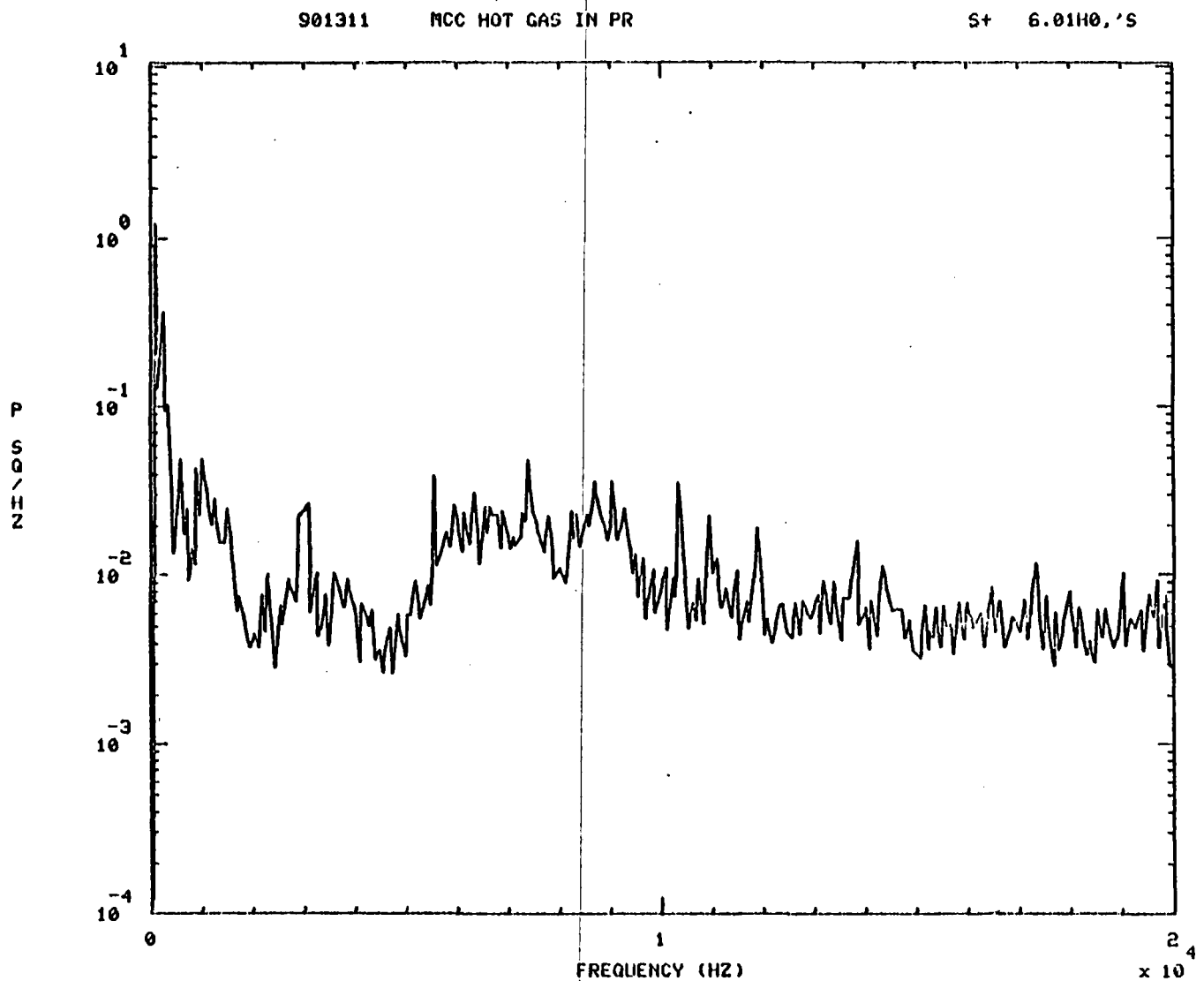

901310 HPOP IN PR
S+ 30.01H0,'S
P S Q / H Z
10^3
10^2
10^1
10^0
10^-1
10^-2
0
1
2
3
FREQUENCY (HZ)
x 10^3

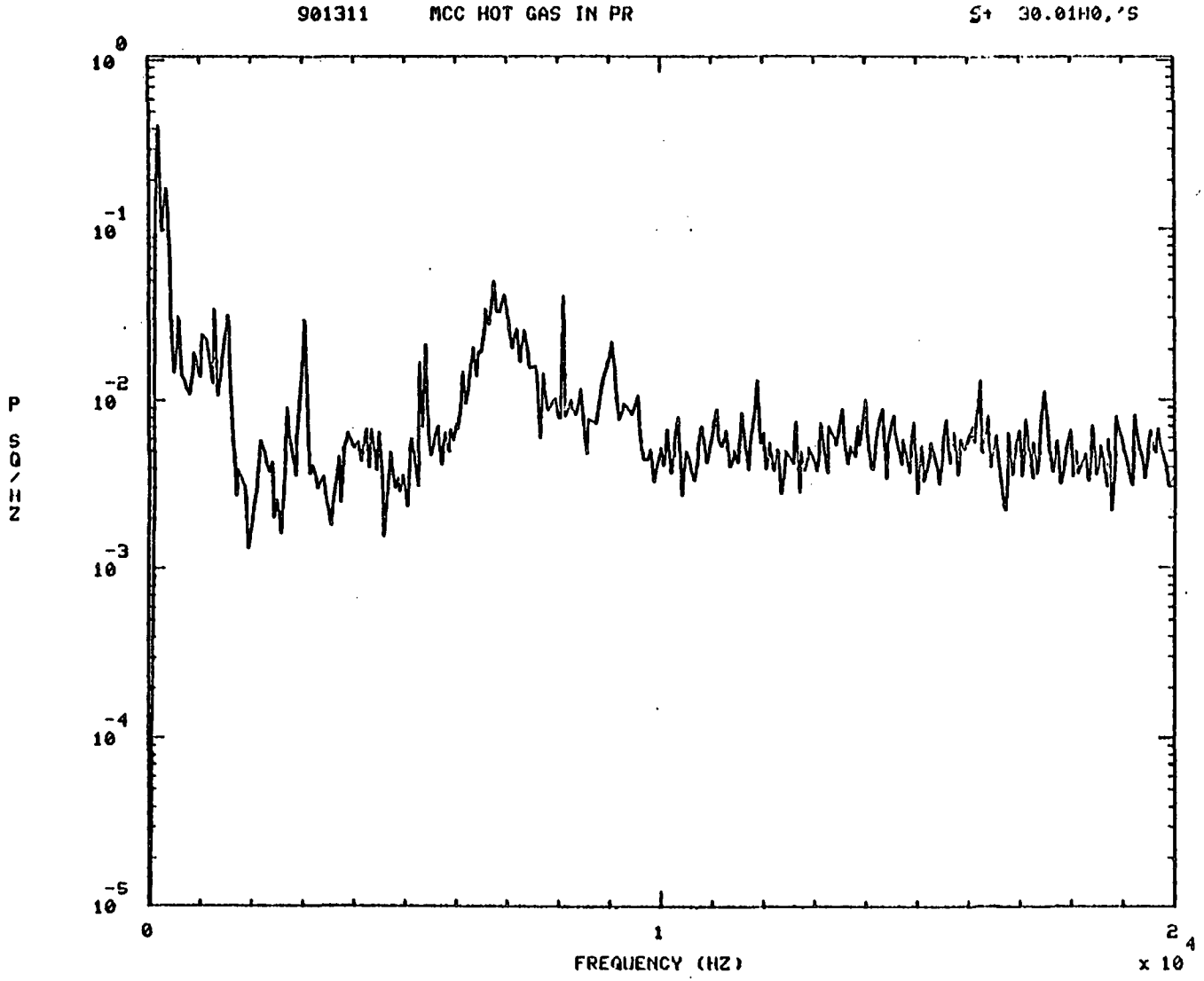

901310 HI LX I PR
S+ G.01H0,'S
P
S
Q
/
H
Z
10^-1
10^-2
10^-3
10^-4
10^-5
10^-6
0
1
2
FREQUENCY (HZ)
x 10^4

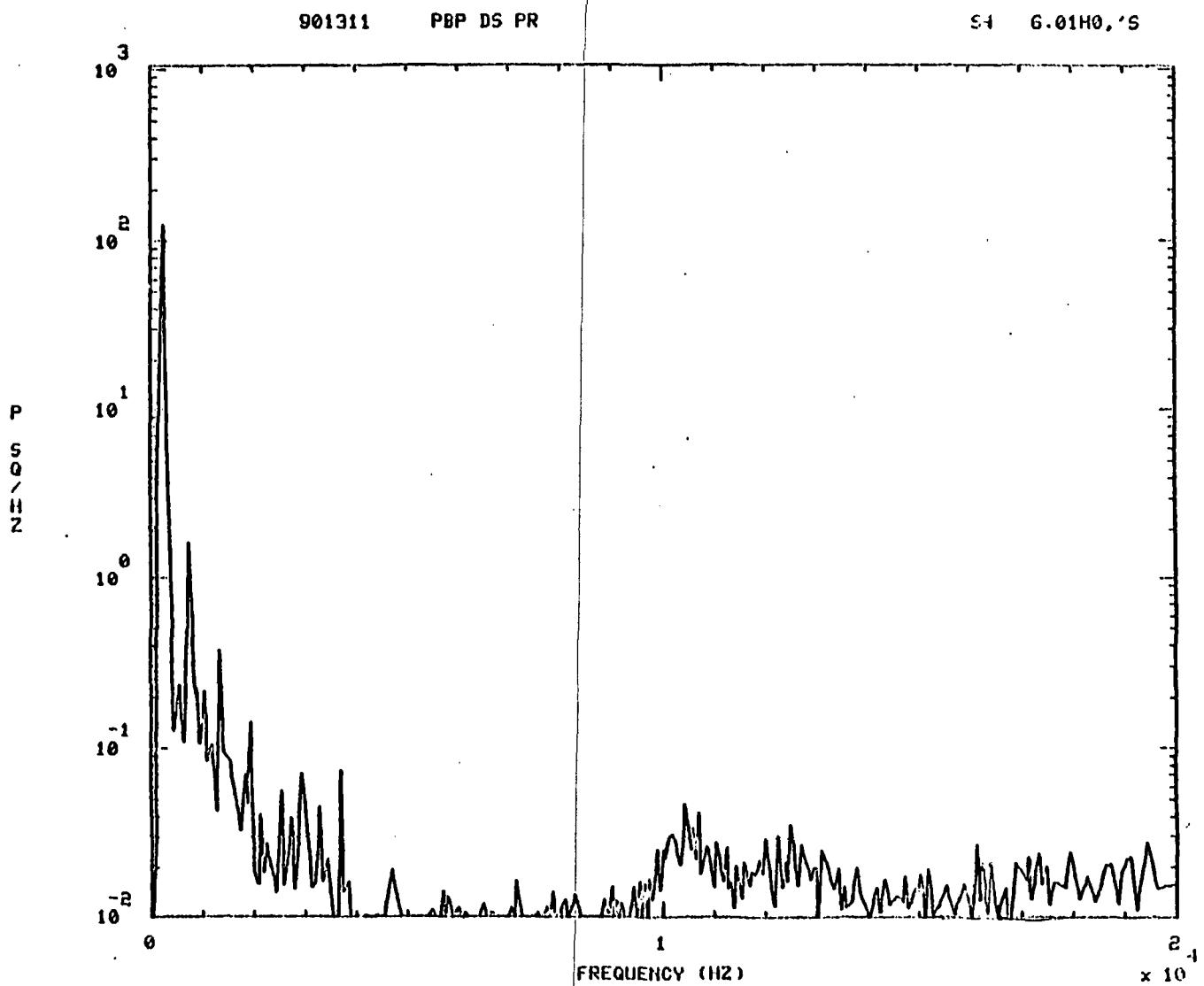

901310 HI LX I PR
S+ 30.01H0,'S
P
S
Q
/
H
Z
10^-1
10^-2
10^-3
10^-4
10^-5
10^-6
0
1
2
FREQUENCY (HZ)
x 10^4

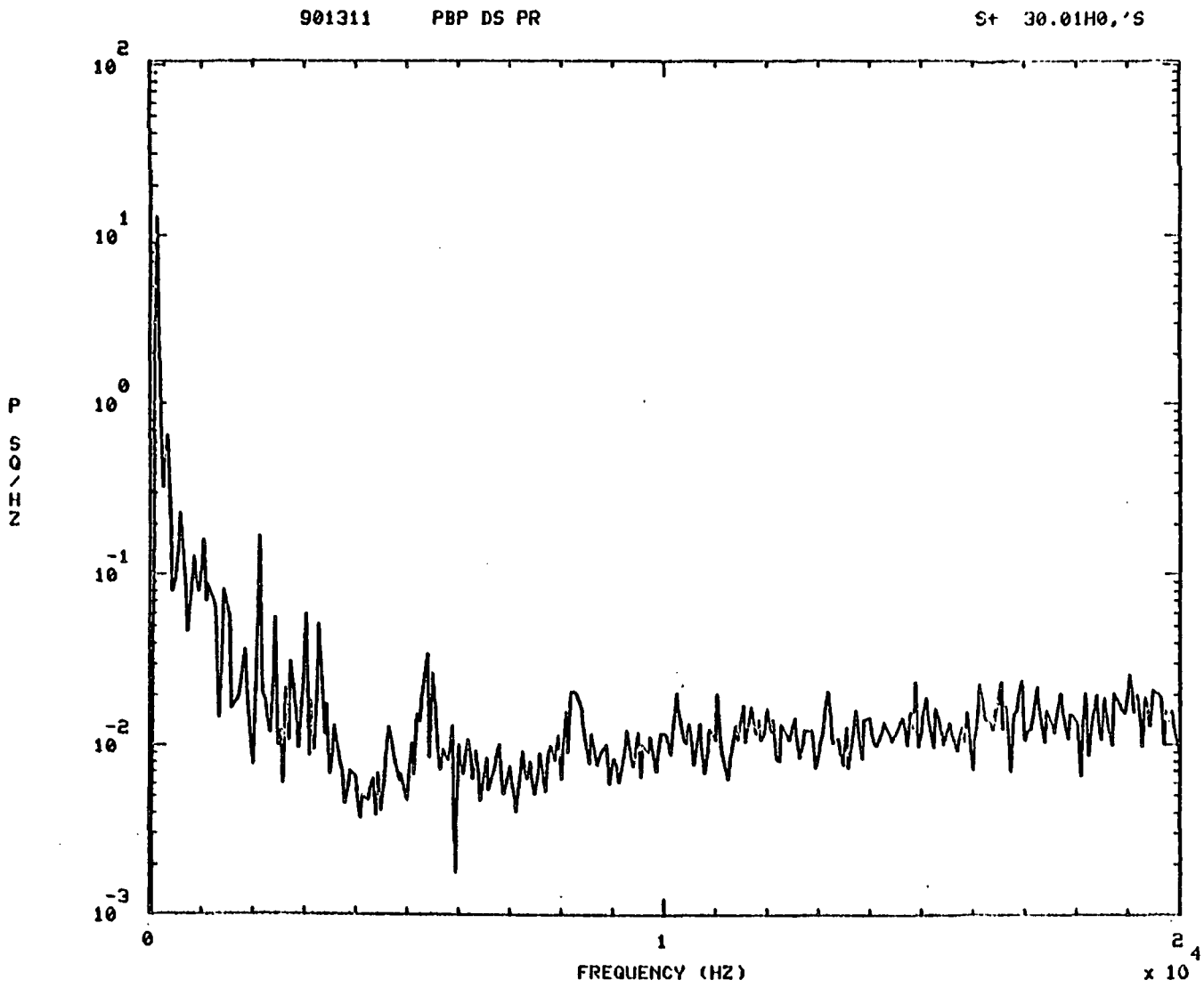

901311 HPOP DS PR
S+ 6.01H0,'S
P SQ/HZ
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4

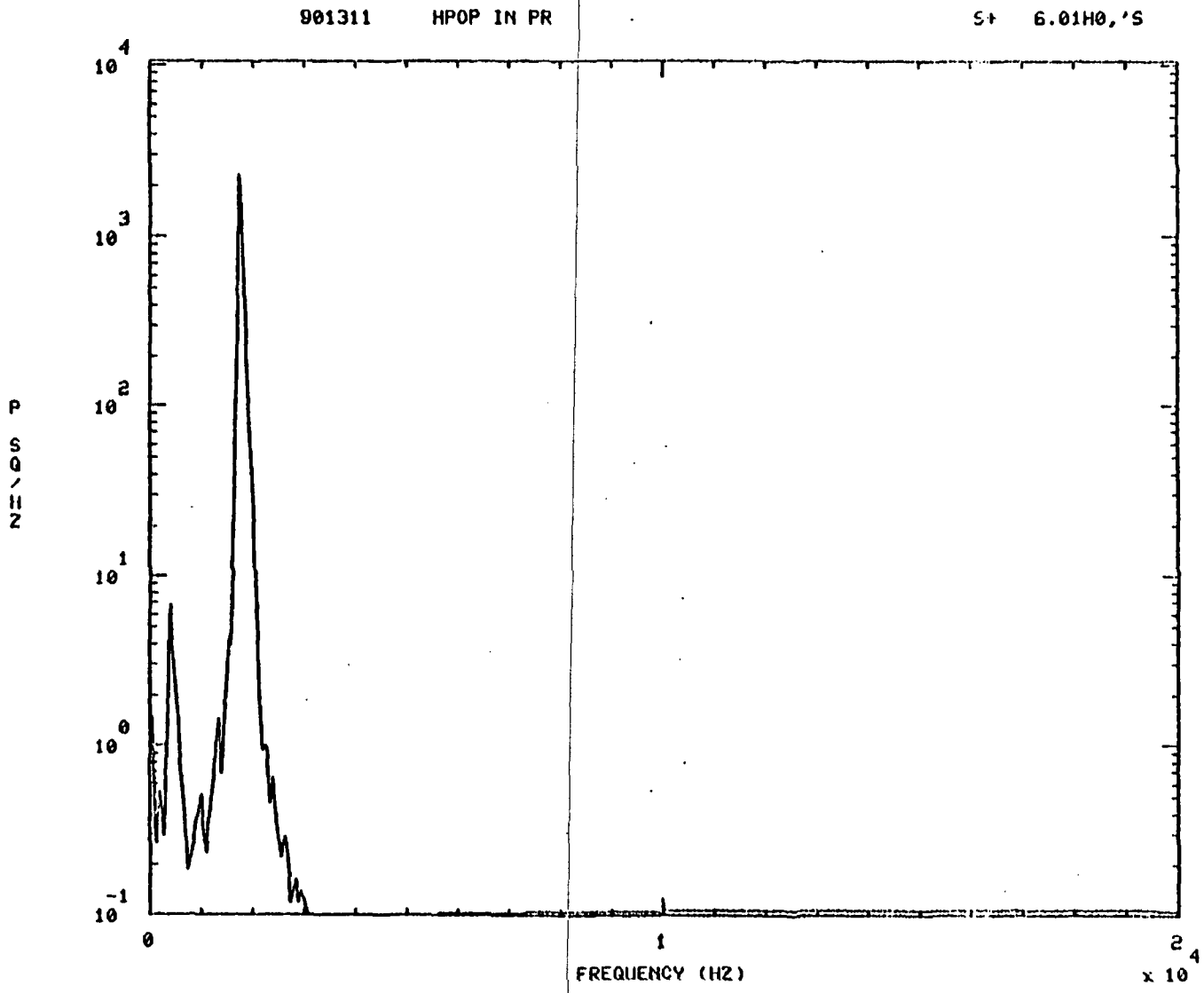

901311 HPOP DS PR
Sr 30.01H0,'S
P SQ/HZ
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
FREQUENCY (HZ)
x 10^4

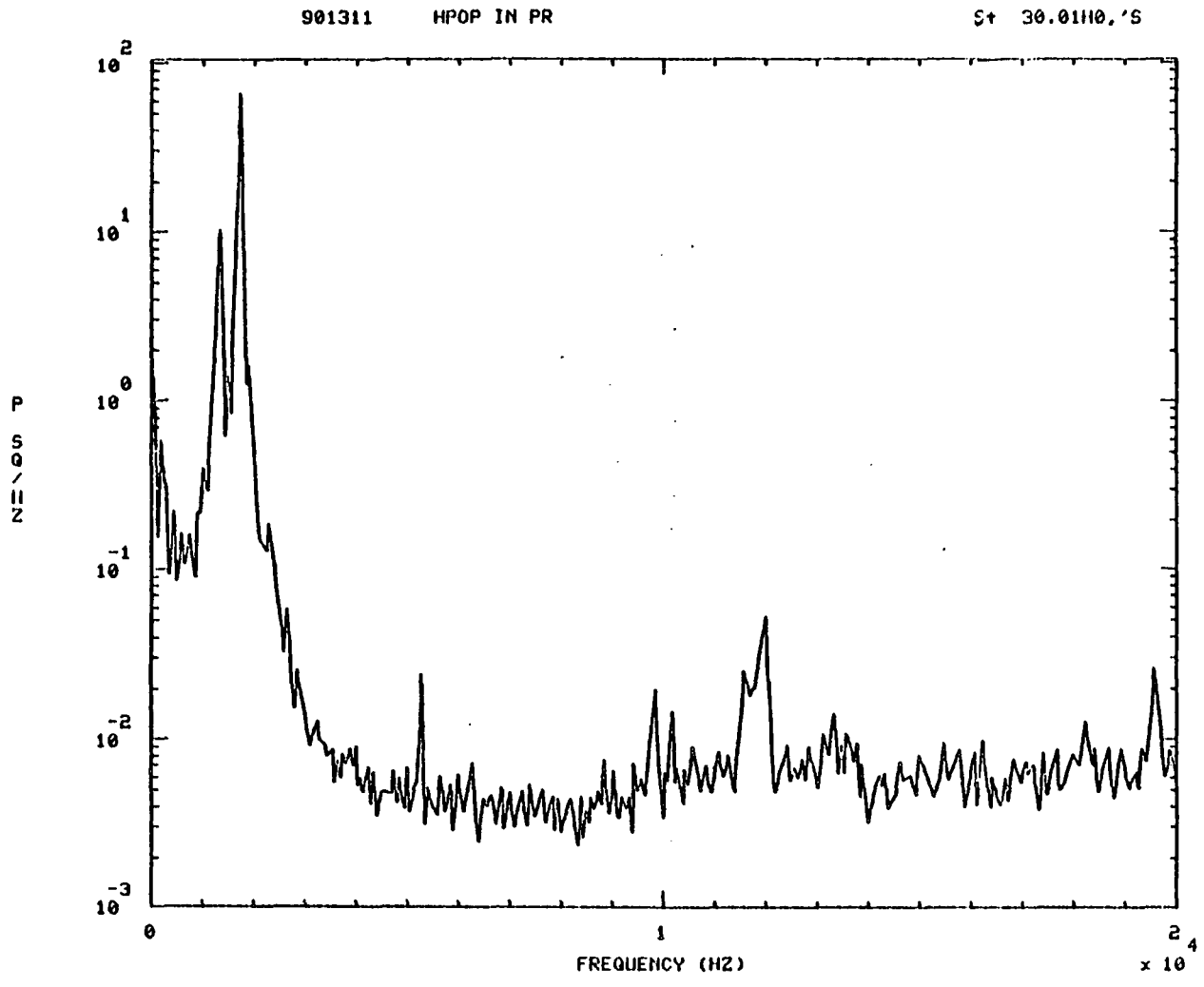

901311 MCC HOT GAS IN PR
S+ 6.01H0,'S
P SQ/HZ
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
4
x 10
FREQUENCY (HZ)

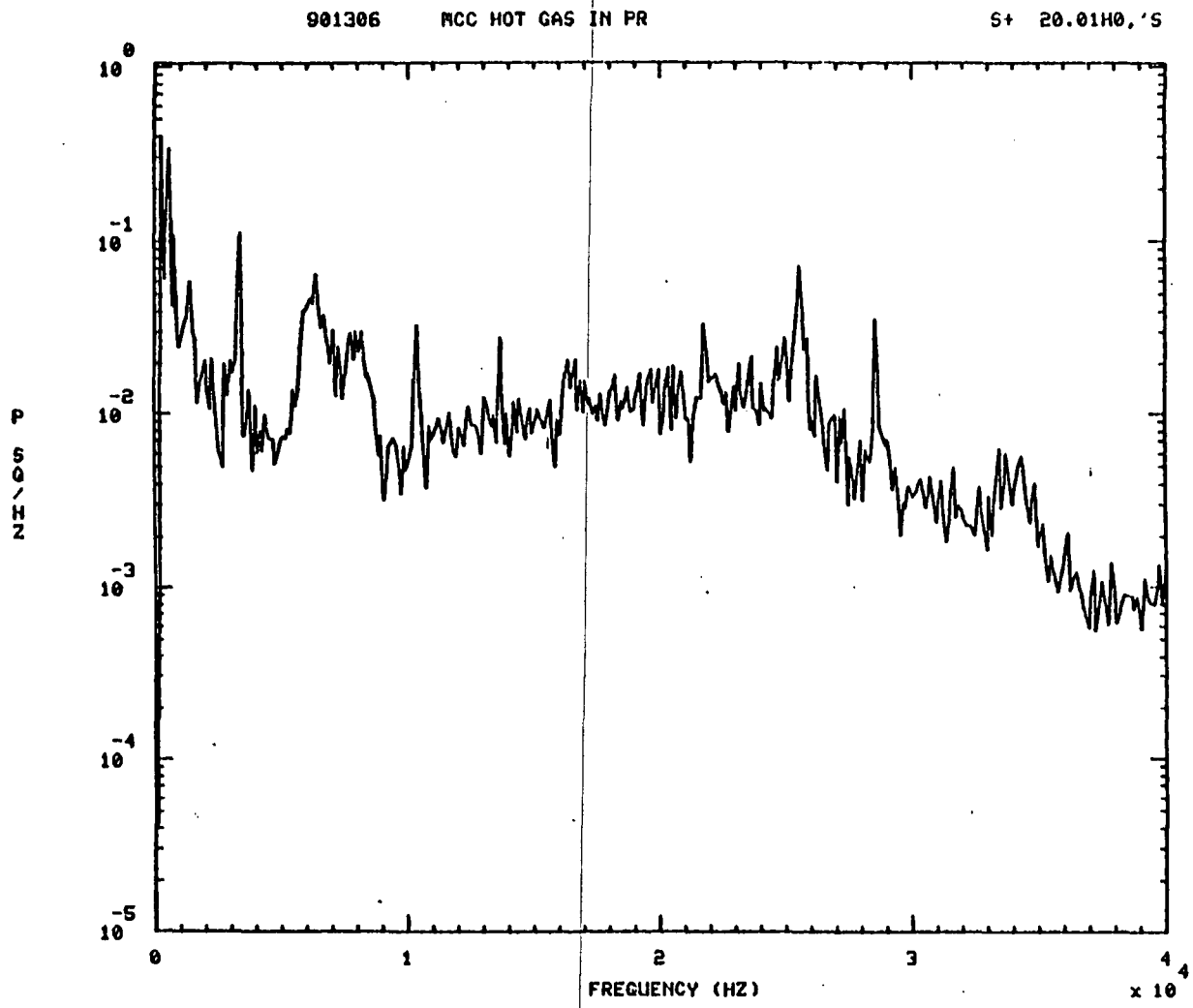

901311 MCC HOT GAS IN PR
S+ 30.01H0,'S
P S Q/HZ
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
FREQUENCY (HZ)
x 10^4

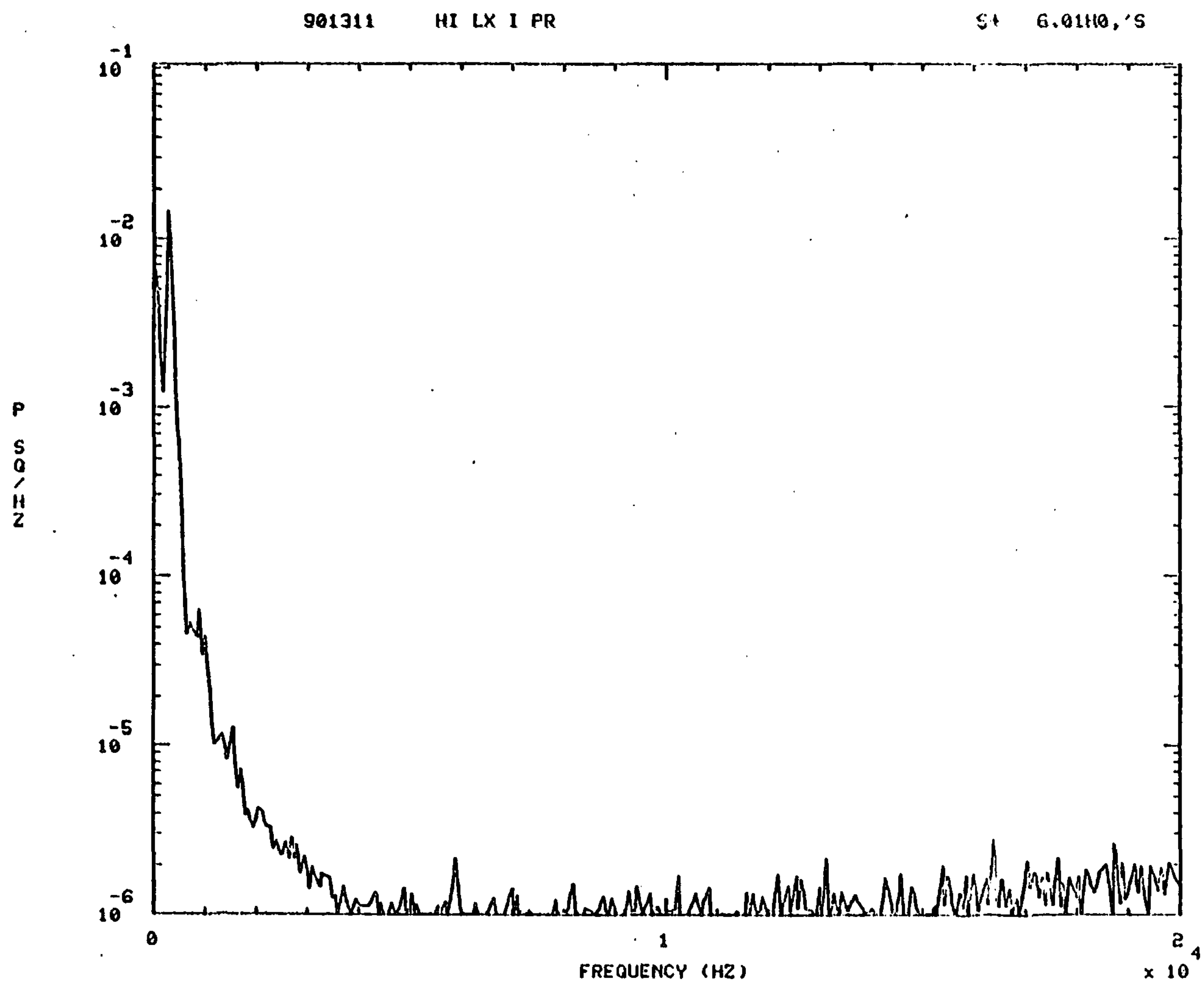

901311 PBP DS PR
S-1 6.01H0,'S
P S Q / H Z
10 3
10 2
10 1
10 0
10 -1
10 -2
0
1
2
FREQUENCY (HZ)
x 10 -1

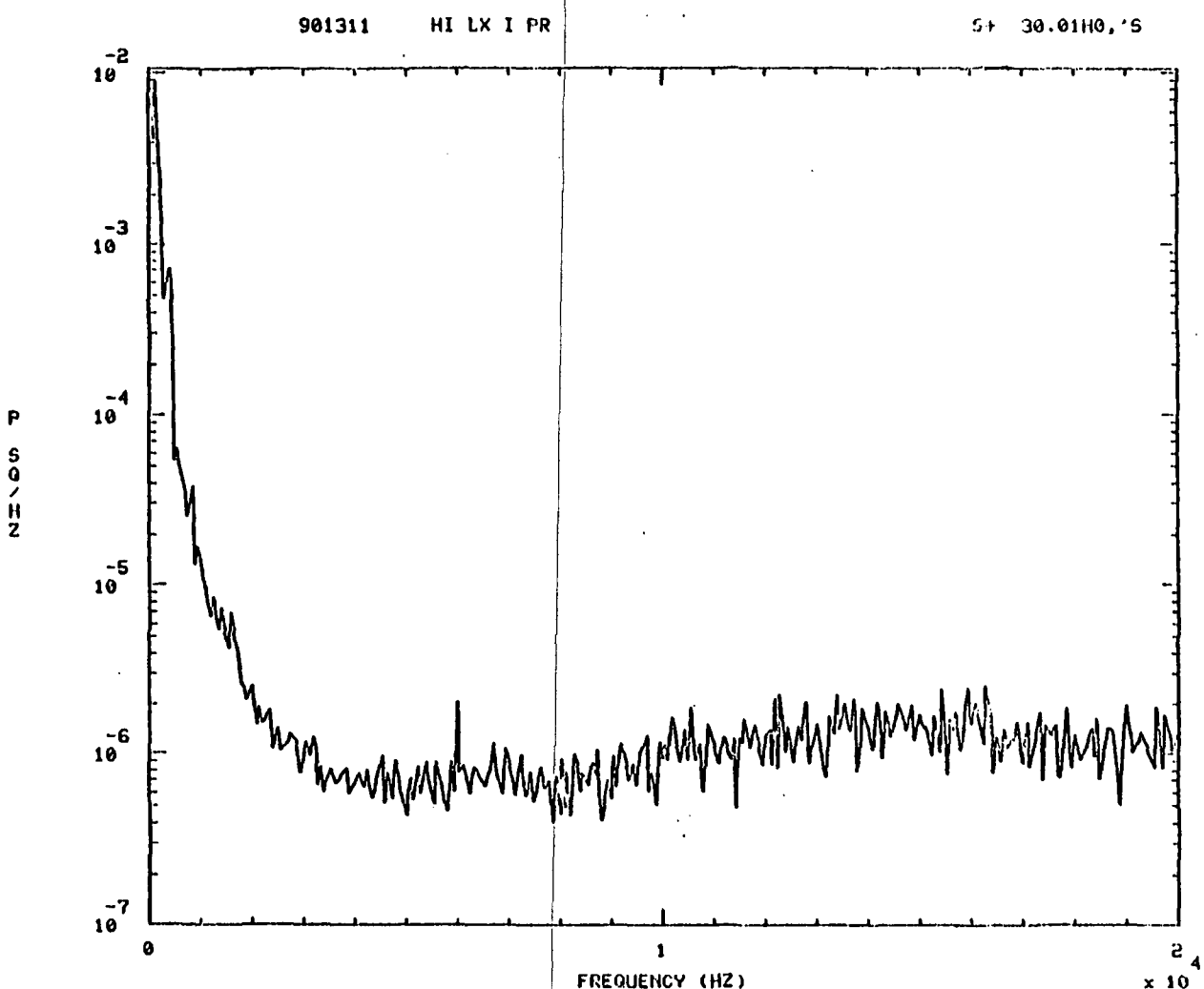

901311 PBP DS PR
S+ 30.01H0,'S
P S Q \ H Z
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4

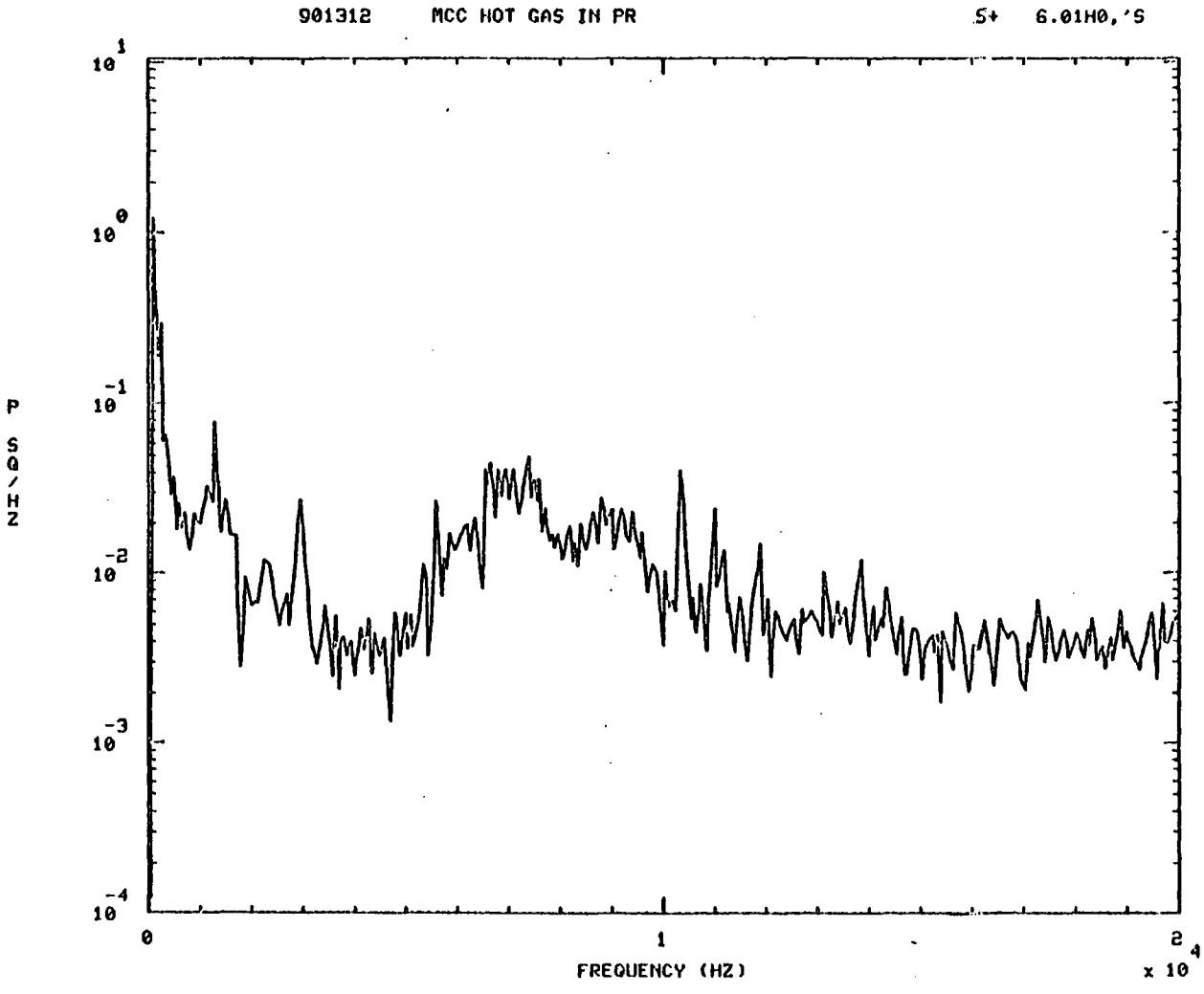

901311 HPOP IN PR
S+ 6.01H0,'S
P S Q \ H Z
10^4
10^3
10^2
10^1
10^0
10^-1
0
1
2
FREQUENCY (HZ)
x 10^4

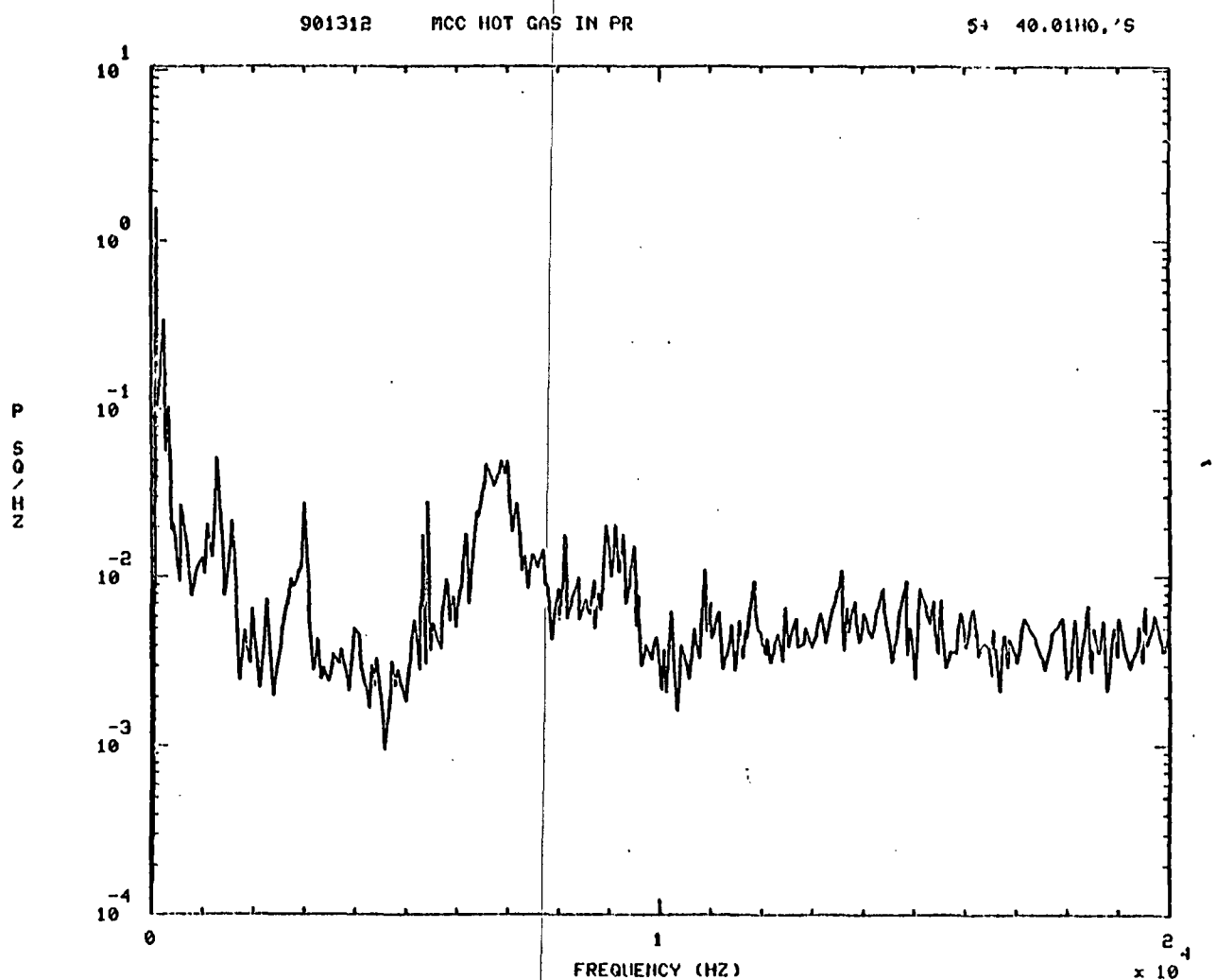

901311 HPOP IN PR
$+ 30.01H0,'S
P S Q / H Z
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
4
x 10
FREQUENCY (HZ)

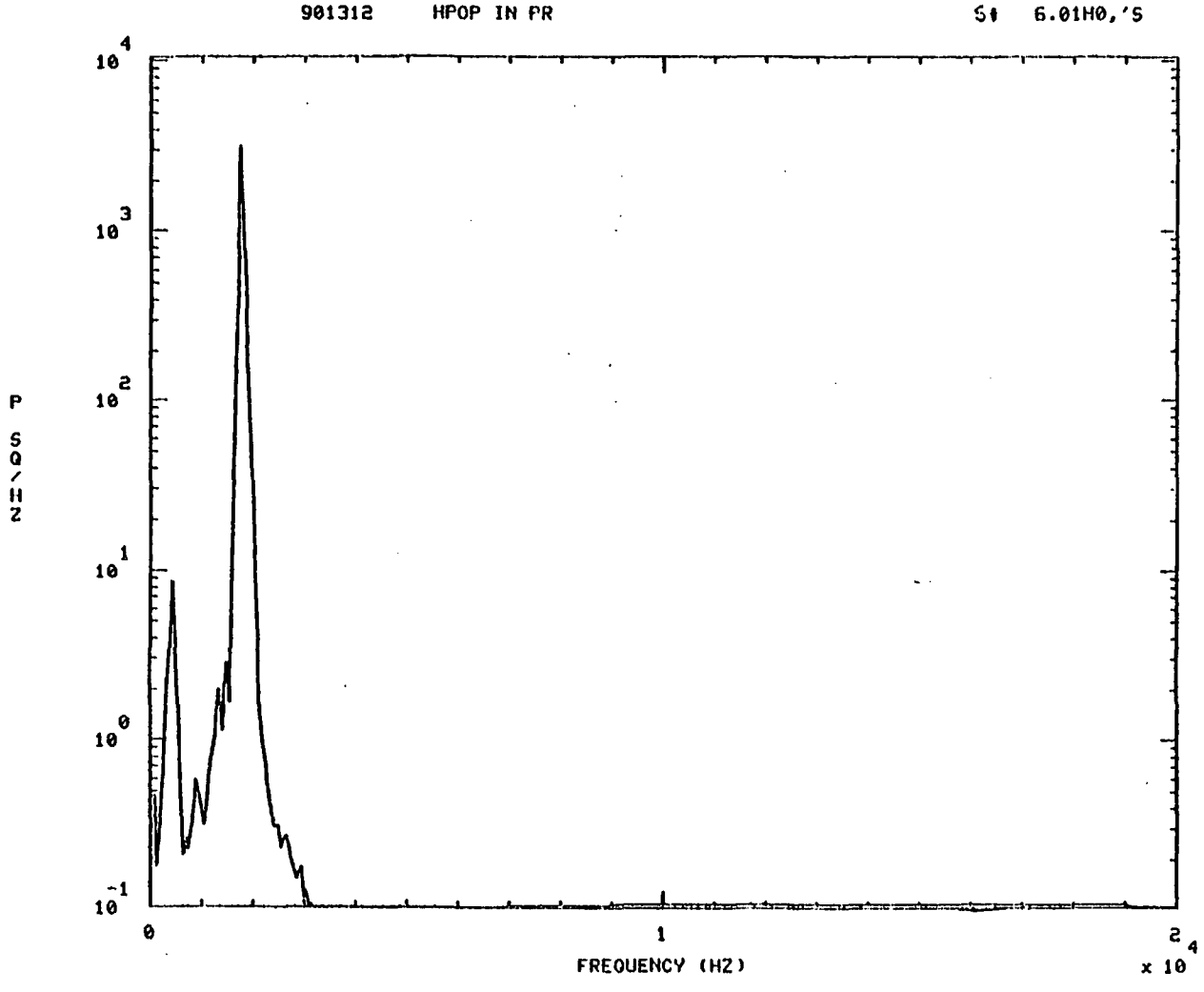

901306 MCC HOT GAS IN PR
S+ 20.01H0,'S
P S Q\HZ
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
3
4
FREQUENCY (HZ)
x 10^4

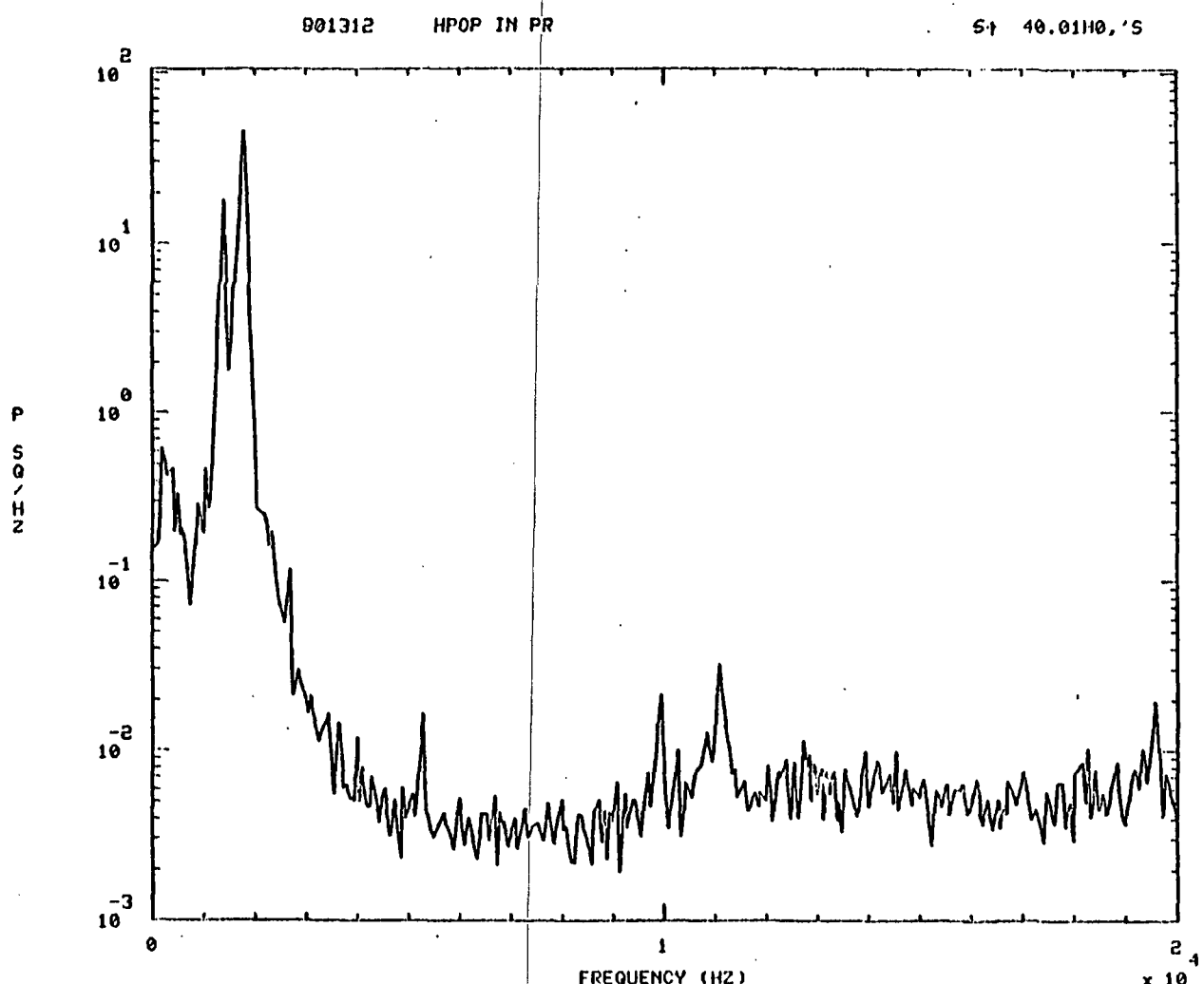

901311 HI LX I PR
S+ 6.01H0,'S
P SQ/HZ
10^-1
10^-2
10^-3
10^-4
10^-5
10^-6
0
1
2
FREQUENCY (HZ)
x 10^4

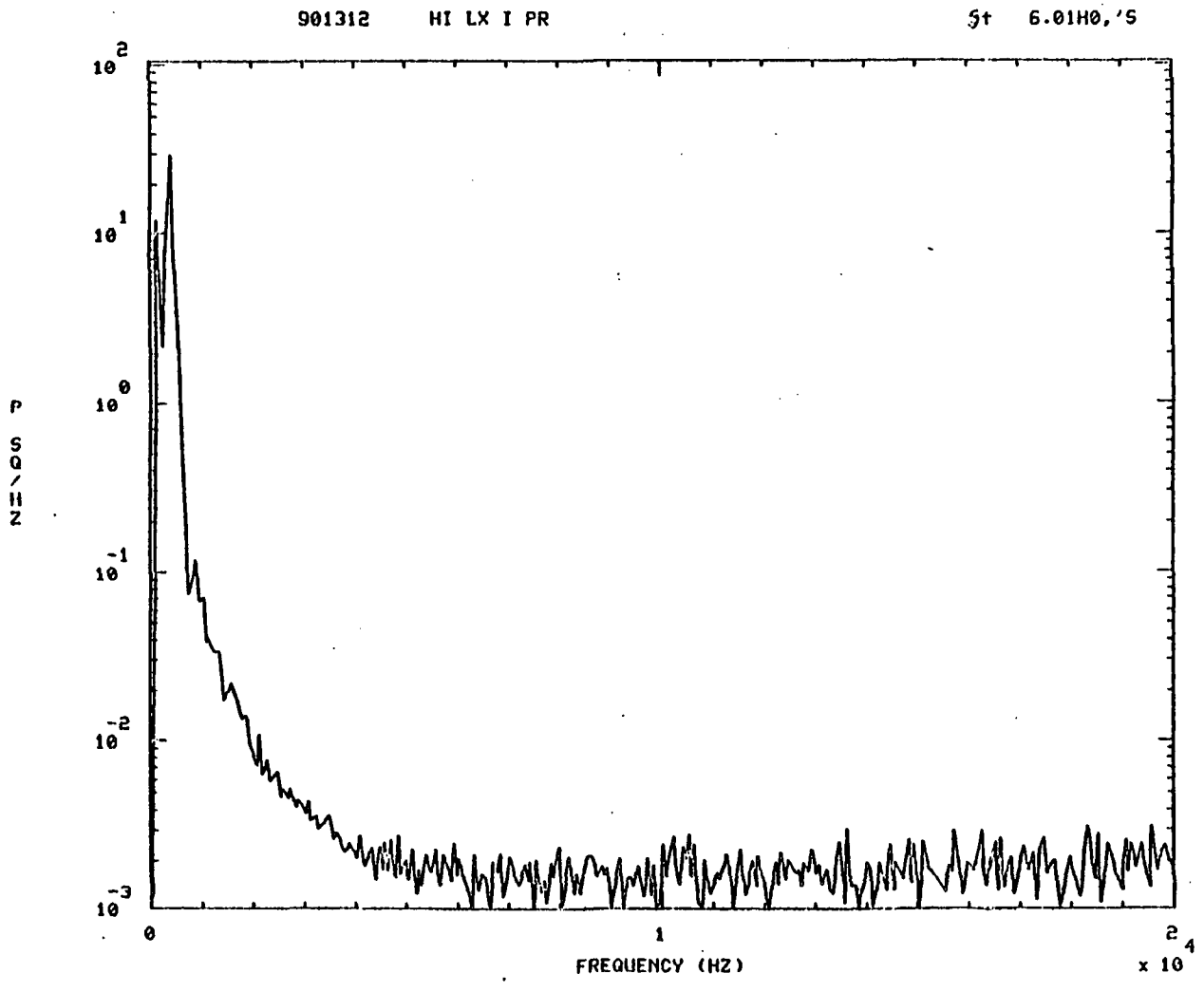

901311 HI LX I PR
S+ 30.01H0,'S
P
S
Q
/
H
Z
10^-2
10^-3
10^-4
10^-5
10^-6
10^-7
0
1
2
4
x 10
FREQUENCY (HZ)

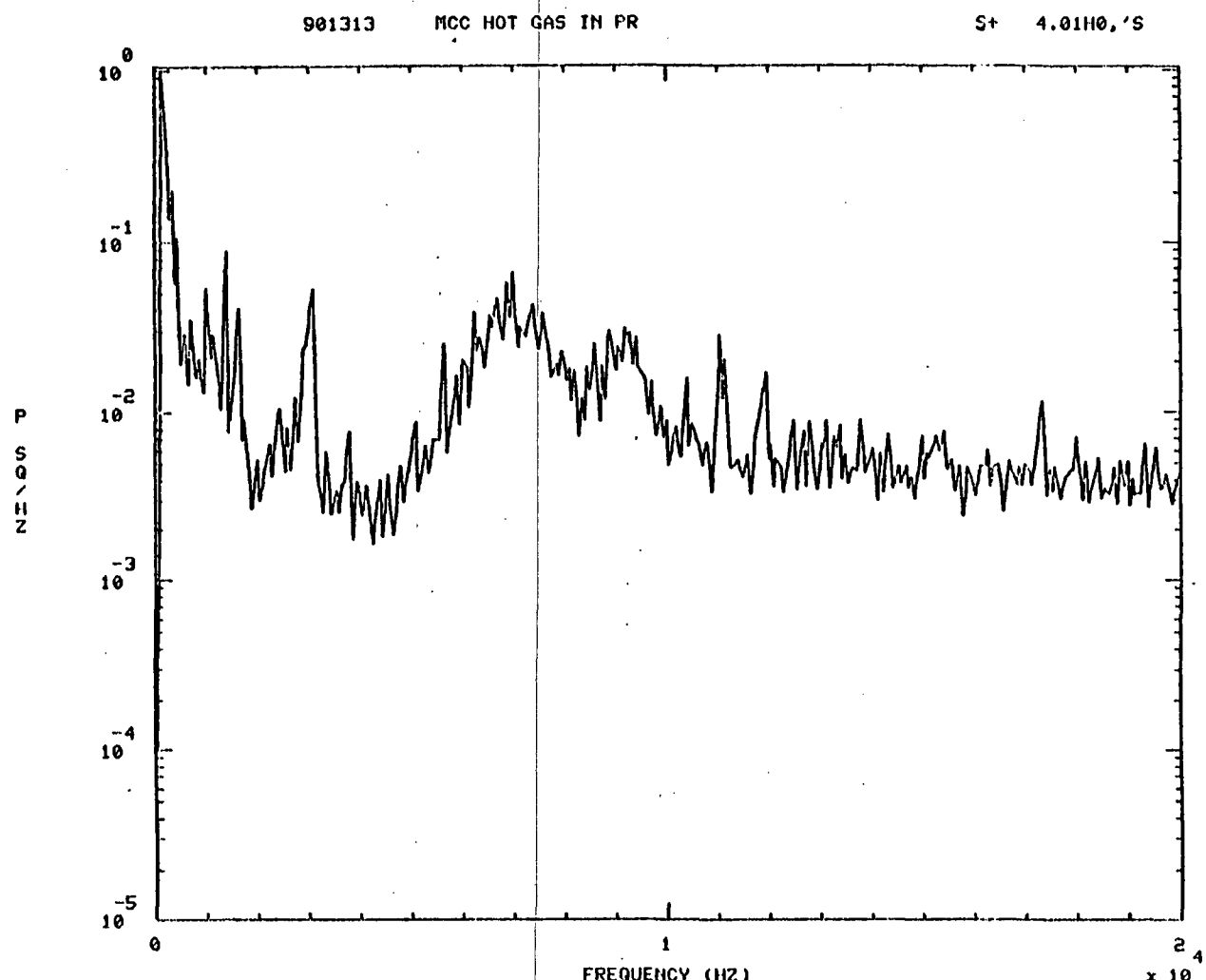

901312 MCC HOT GAS IN PR
S+ 6.01H0,'S
P
S
Q
/
H
Z
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
FREQUENCY (HZ)
x 10^4

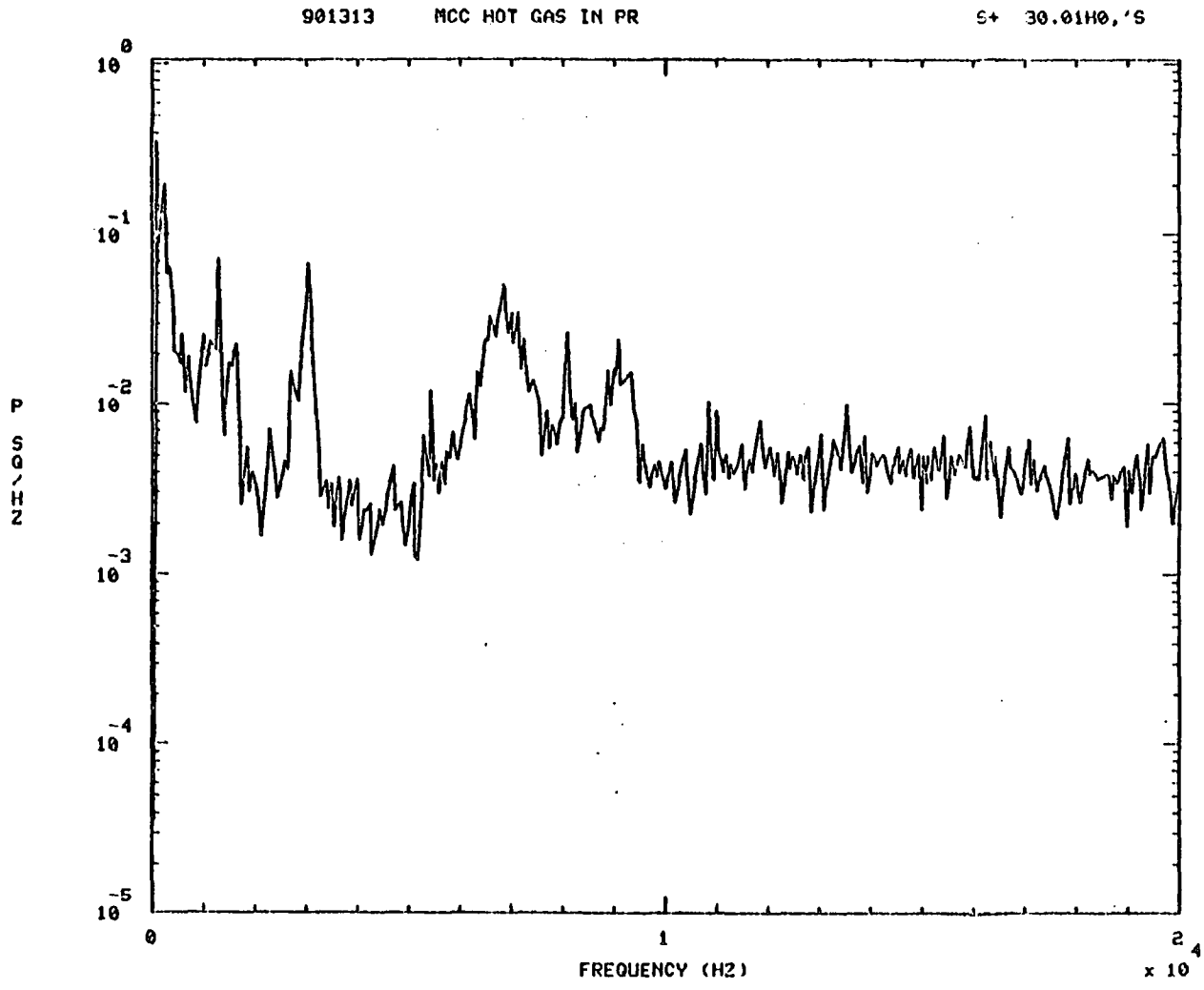

901312 MCC HOT GAS IN PR
5+ 40.01H0.'S
P S0/HZ
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
FREQUENCY (HZ)
x 10^4

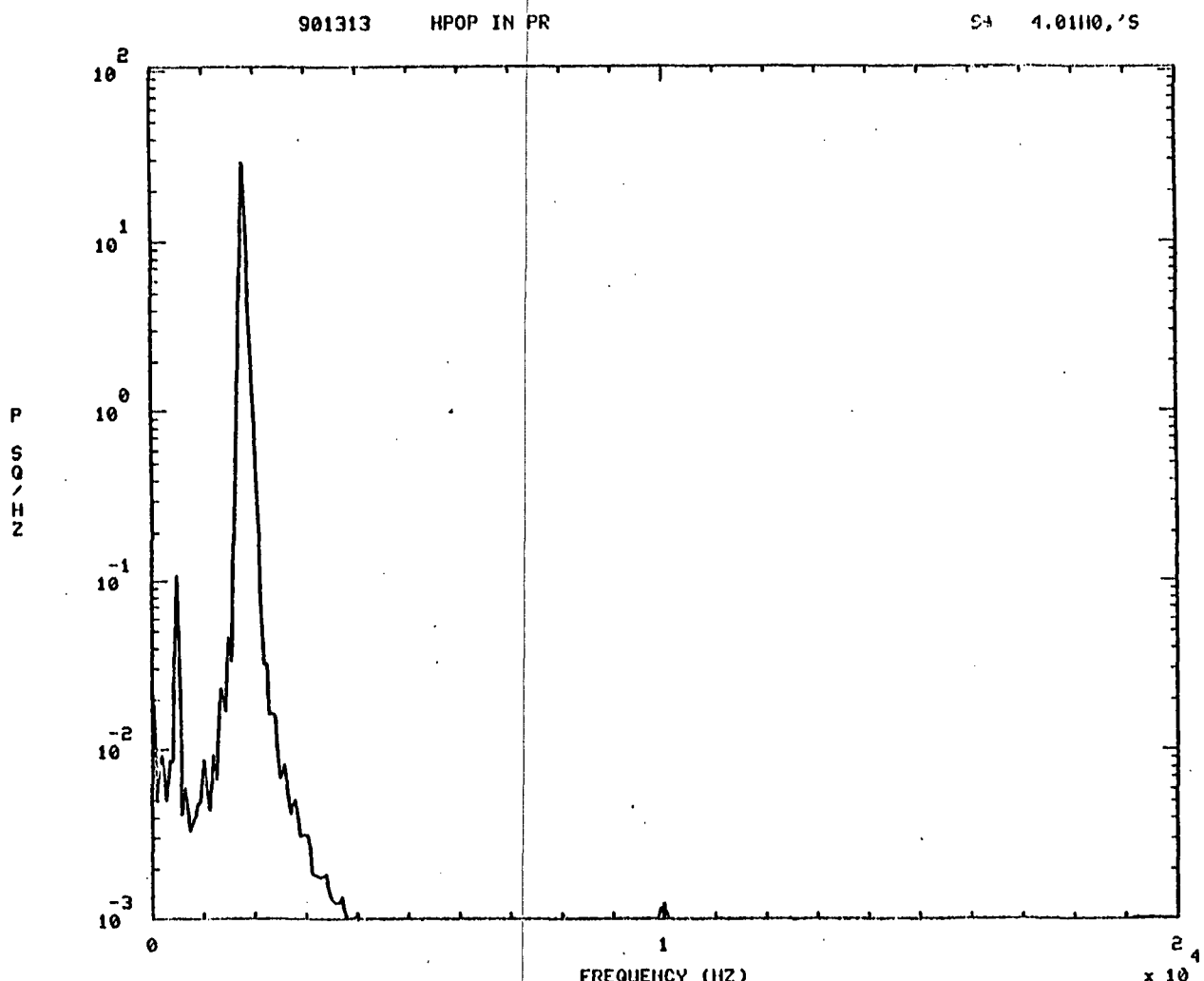

901312 HPOP IN PR
S1 6.01H0,'S
P S Q / H Z
10^4
10^3
10^2
10^1
10^0
10^-1
0
1
2
FREQUENCY (HZ)
x 10^4

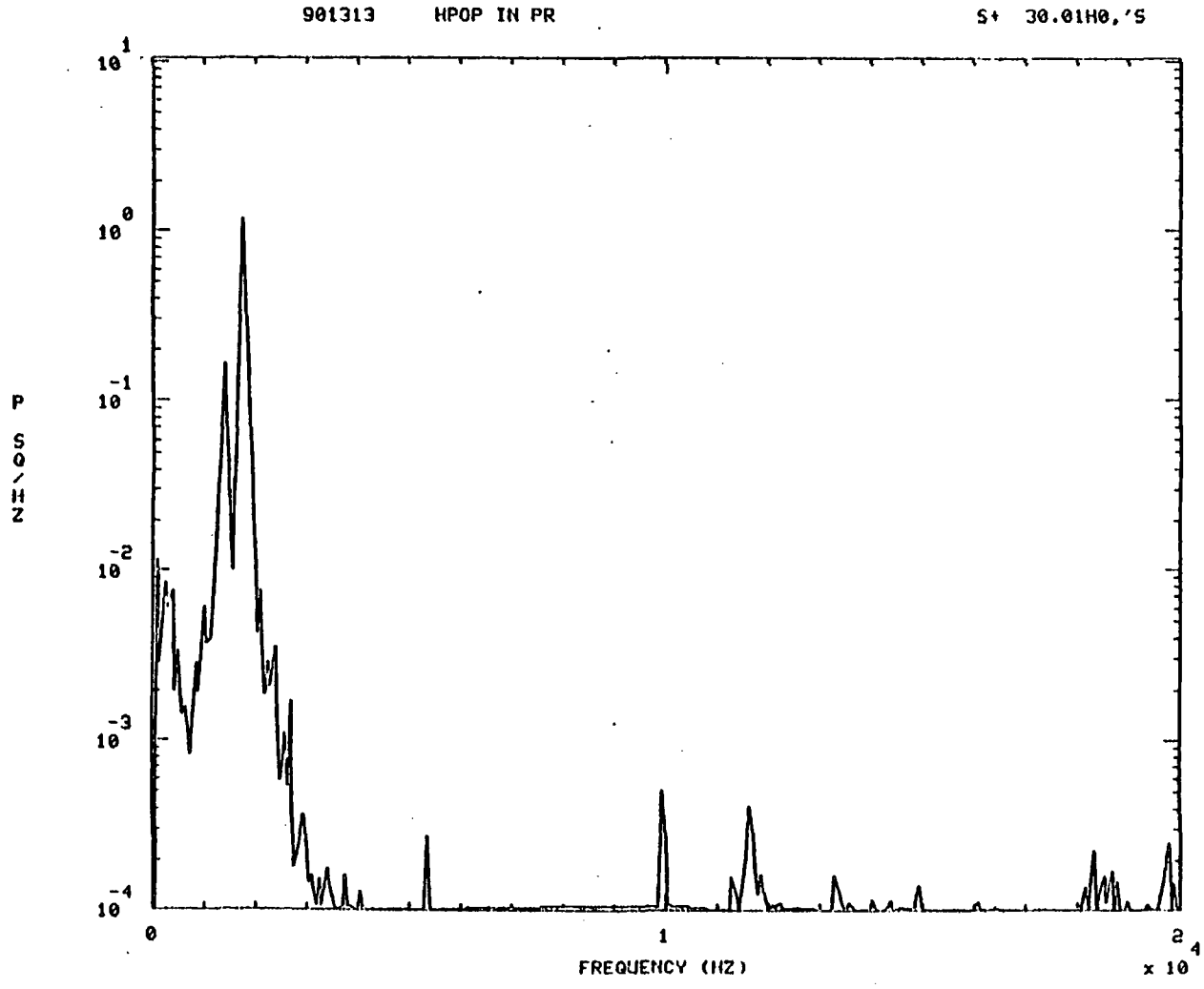

901312 HPOP IN PR
S↑ 40.01H0,'S
P S Q \ H Z
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4

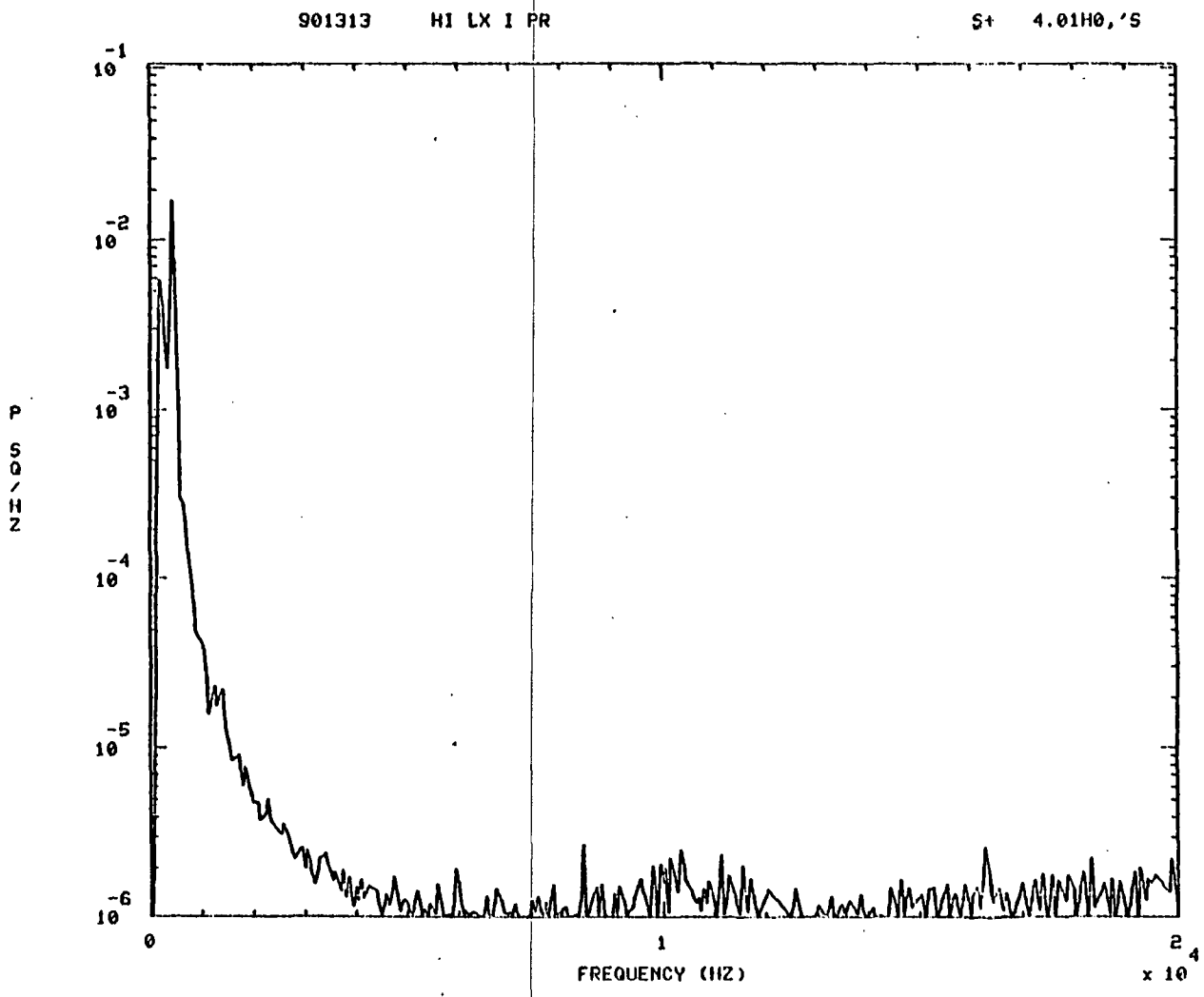

901312 HI LX I PR
6.01H0,'S
P S Q / H Z
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4

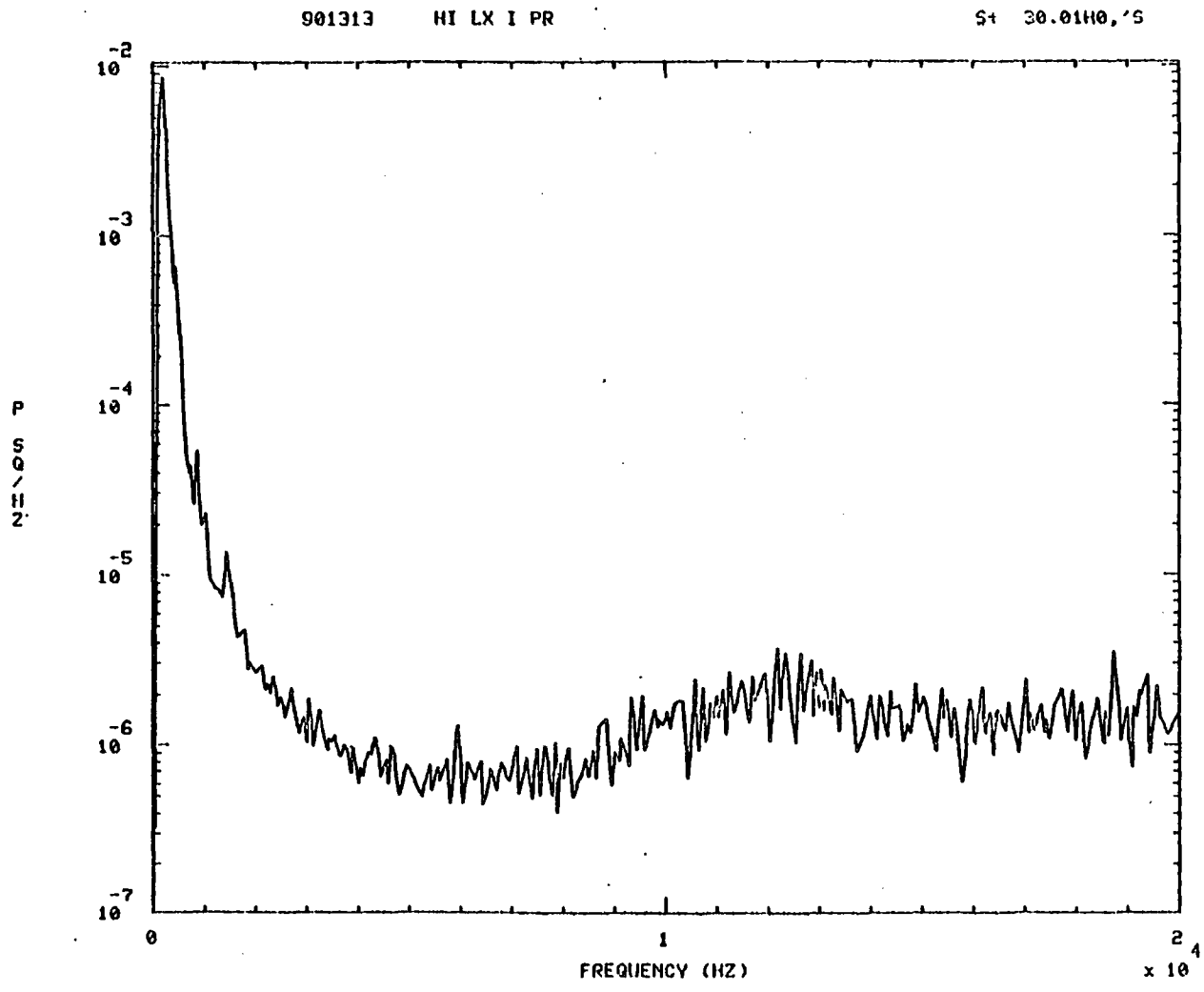

901313 MCC HOT GAS IN PR
S+ 4.01H0,'S
P SQ\HZ
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
FREQUENCY (HZ)
x 10^4

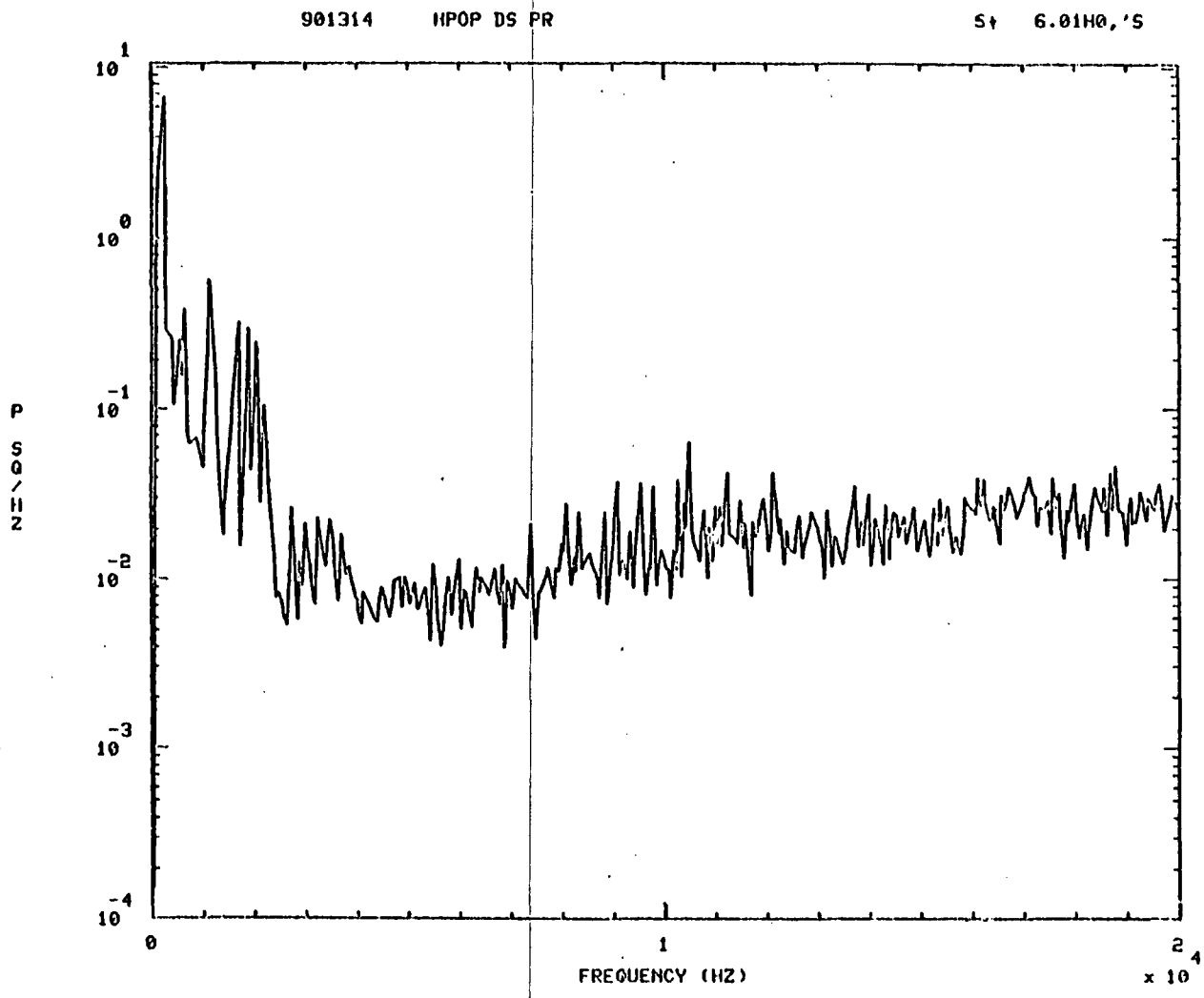

901313 MCC HOT GAS IN PR
S+ 30.01H0,'S
P SQ/HZ
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
FREQUENCY (H2)
x 10^4

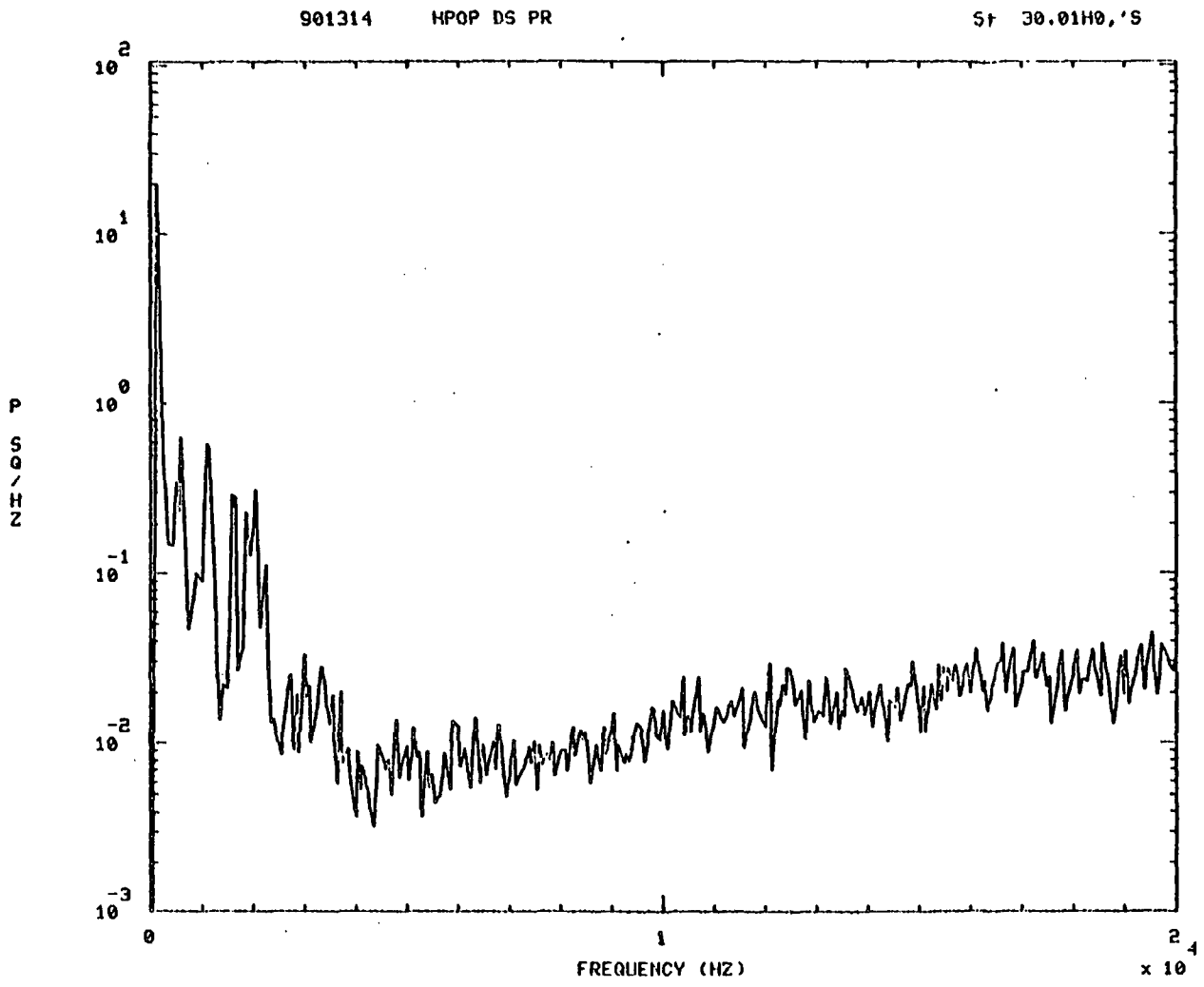

901313 HPOP IN PR
S4 4.01110,'S
P S Q / H Z
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4

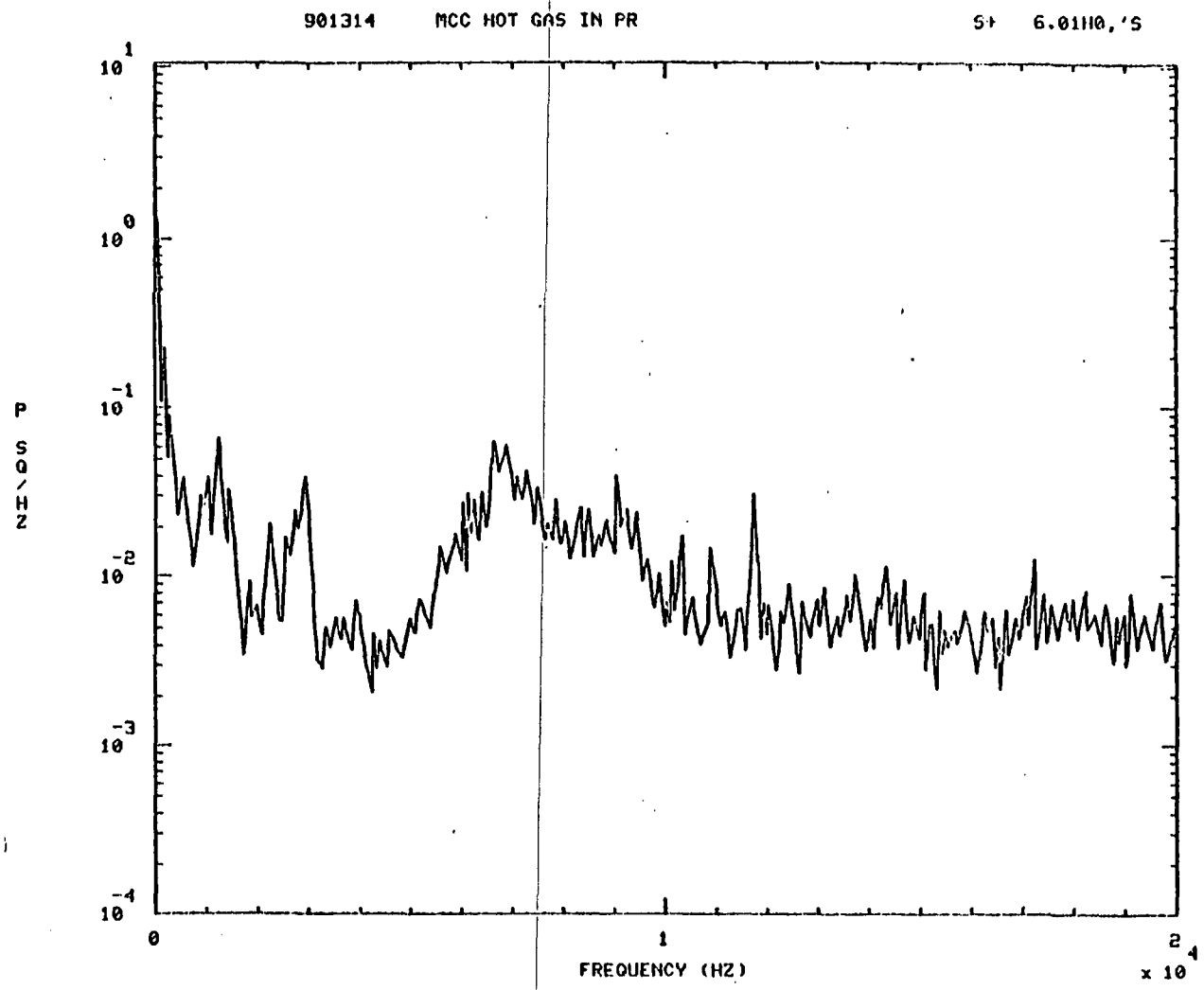

901313 HPOP IN PR
S+ 30.01H0,'S
P S Q \ H Z
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
FREQUENCY (HZ)
x 10^4

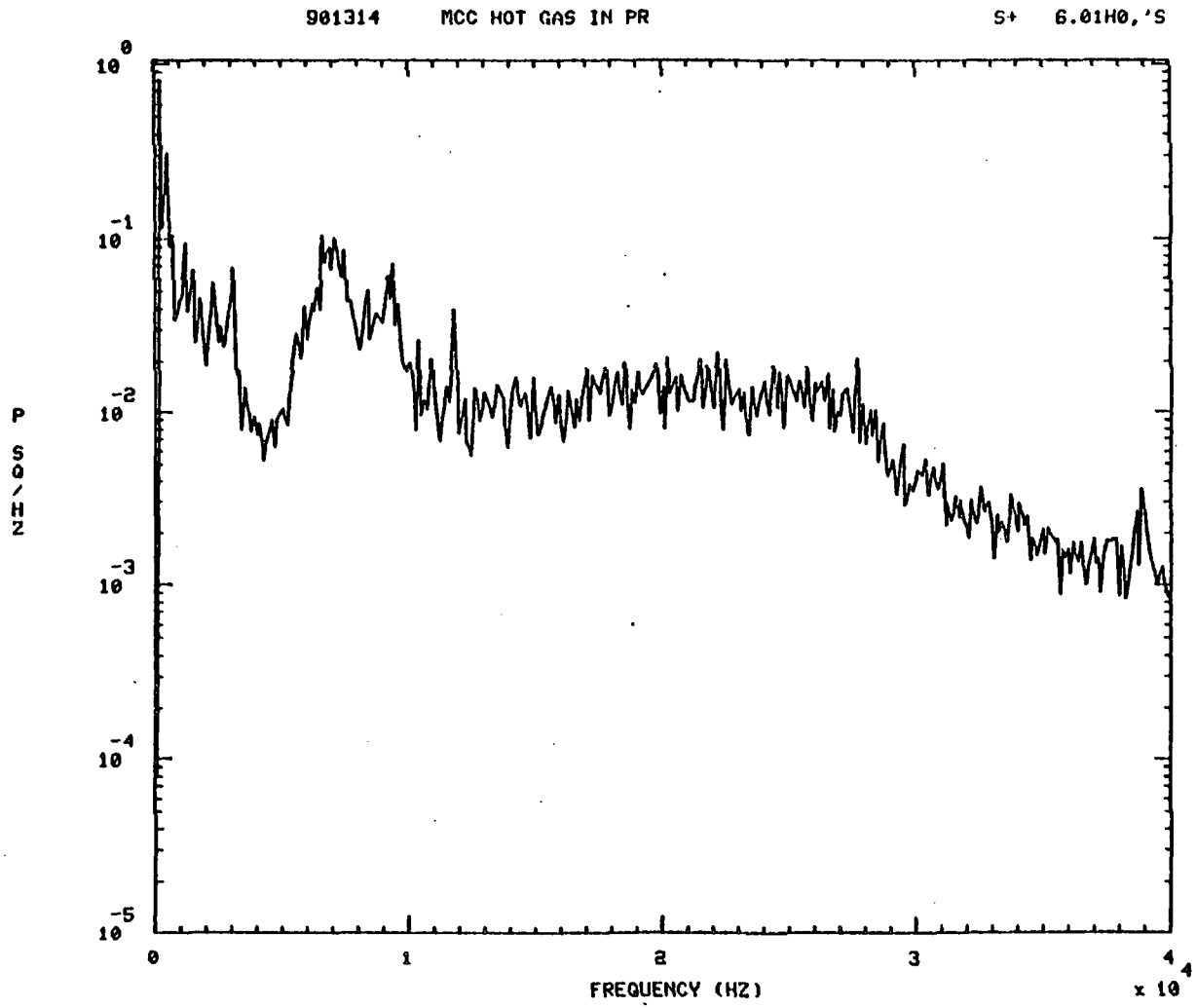

901313 HI LX I PR
S+ 4.01H0,'S
P
S
Q
/
H
Z
10^-1
10^-2
10^-3
10^-4
10^-5
10^-6
0
1
2
FREQUENCY (HZ)
x 10^4

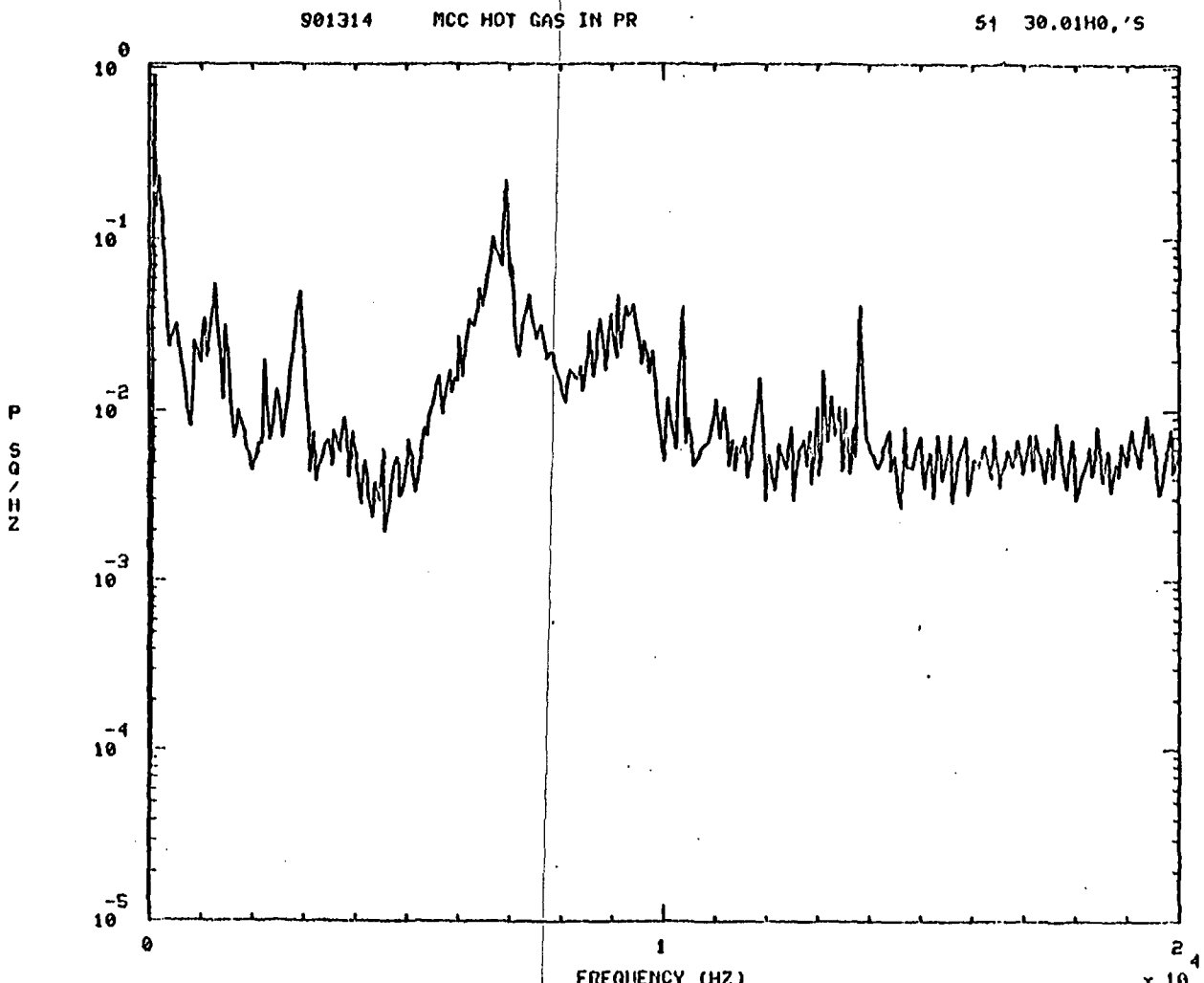

901313 HI LX I PR
St 30.01H0,'S
P
SQ/HZ
10^-2
10^-3
10^-4
10^-5
10^-6
10^-7
0
1
2
FREQUENCY (HZ)
x 10^4

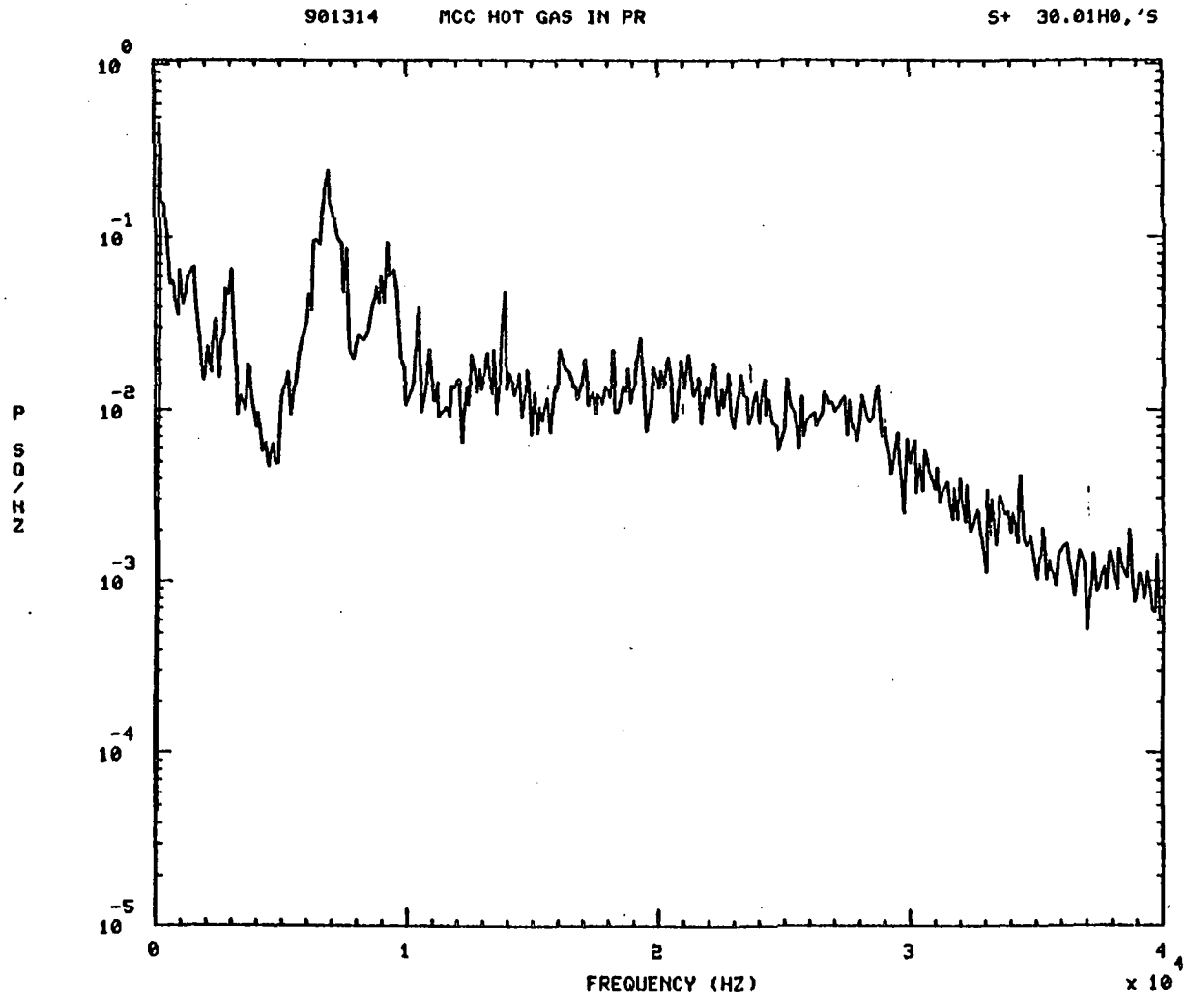

901314 HPOP DS PR
S+ 6.01H0,'S
P
S
Q
/
H
Z
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
FREQUENCY (HZ)
x 10^4

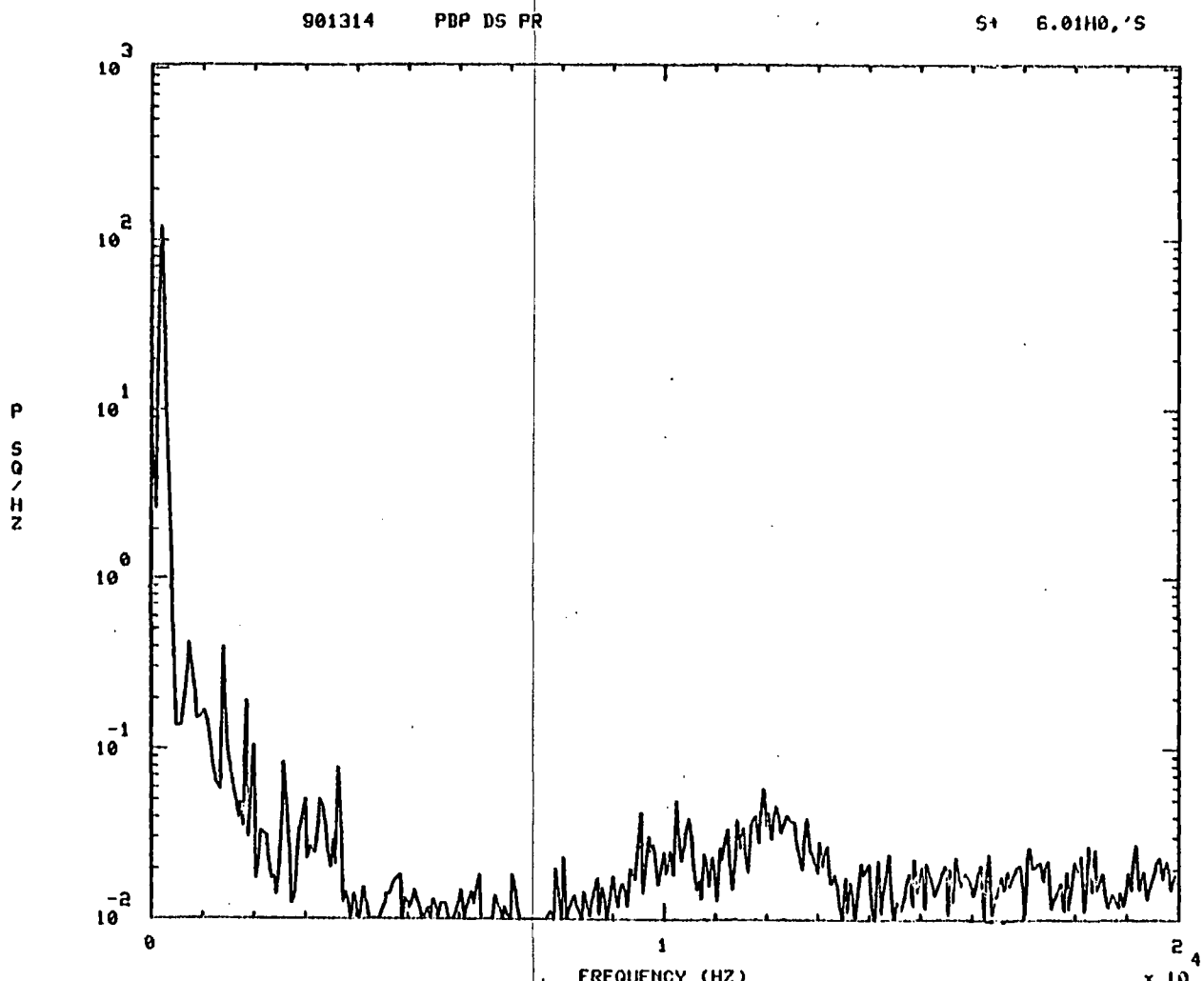

901314 HPOP DS PR
St 30.01H0,'S
P
S
Q
/
H
Z
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4

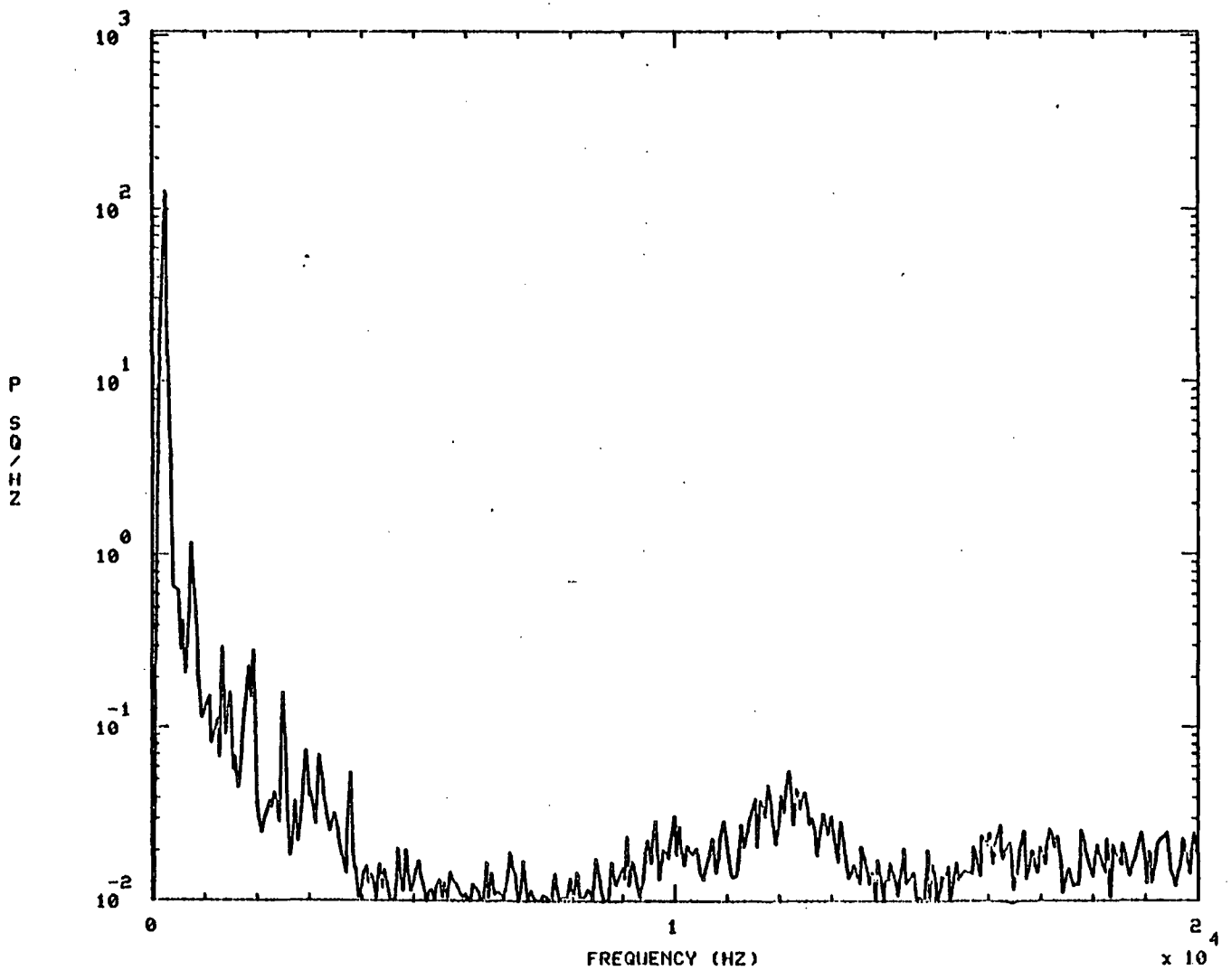

901314 MCC HOT GAS IN PR
S+ 6.01H0,'S
P
S
Q
/
H
Z
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
FREQUENCY (HZ)
x 10^4

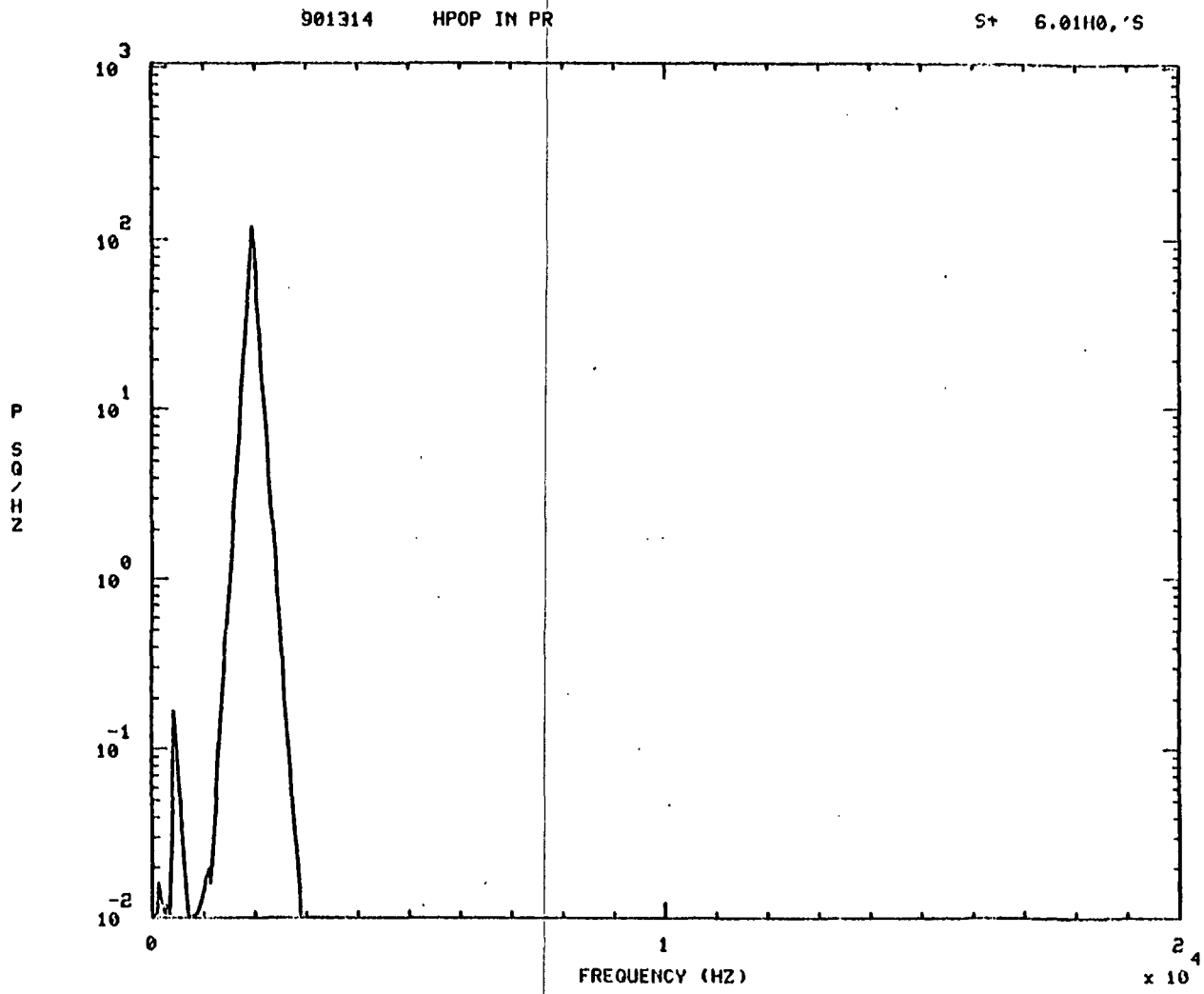

901314 MCC HOT GAS IN PR
S+ 6.01H0,'S
P SQ/HZ
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
3
4
FREQUENCY (HZ)
x 10^4

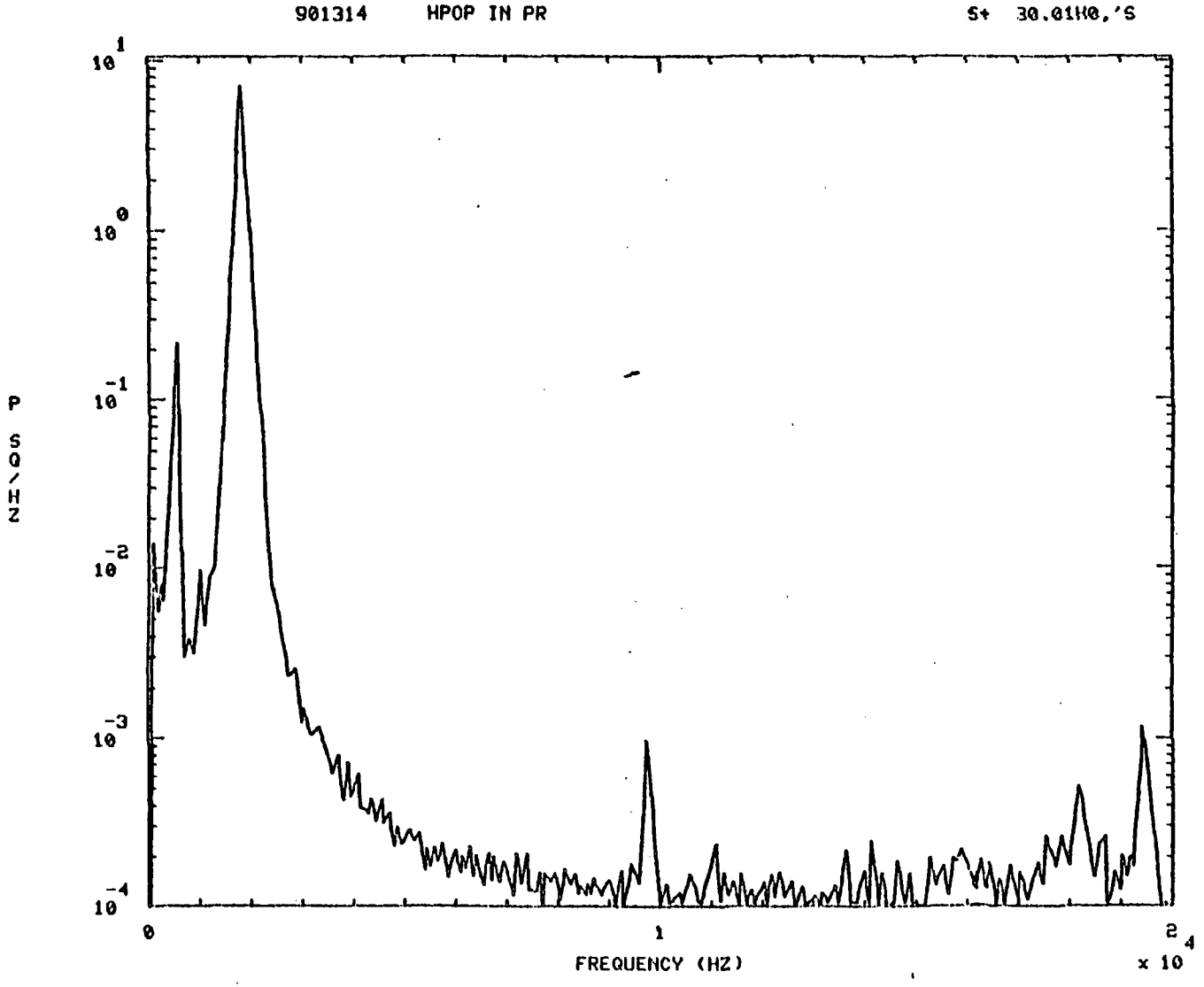

901314 MCC HOT GAS IN PR
51 30.01H0,'S
P S Q / H Z
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
FREQUENCY (HZ)
x 10^4

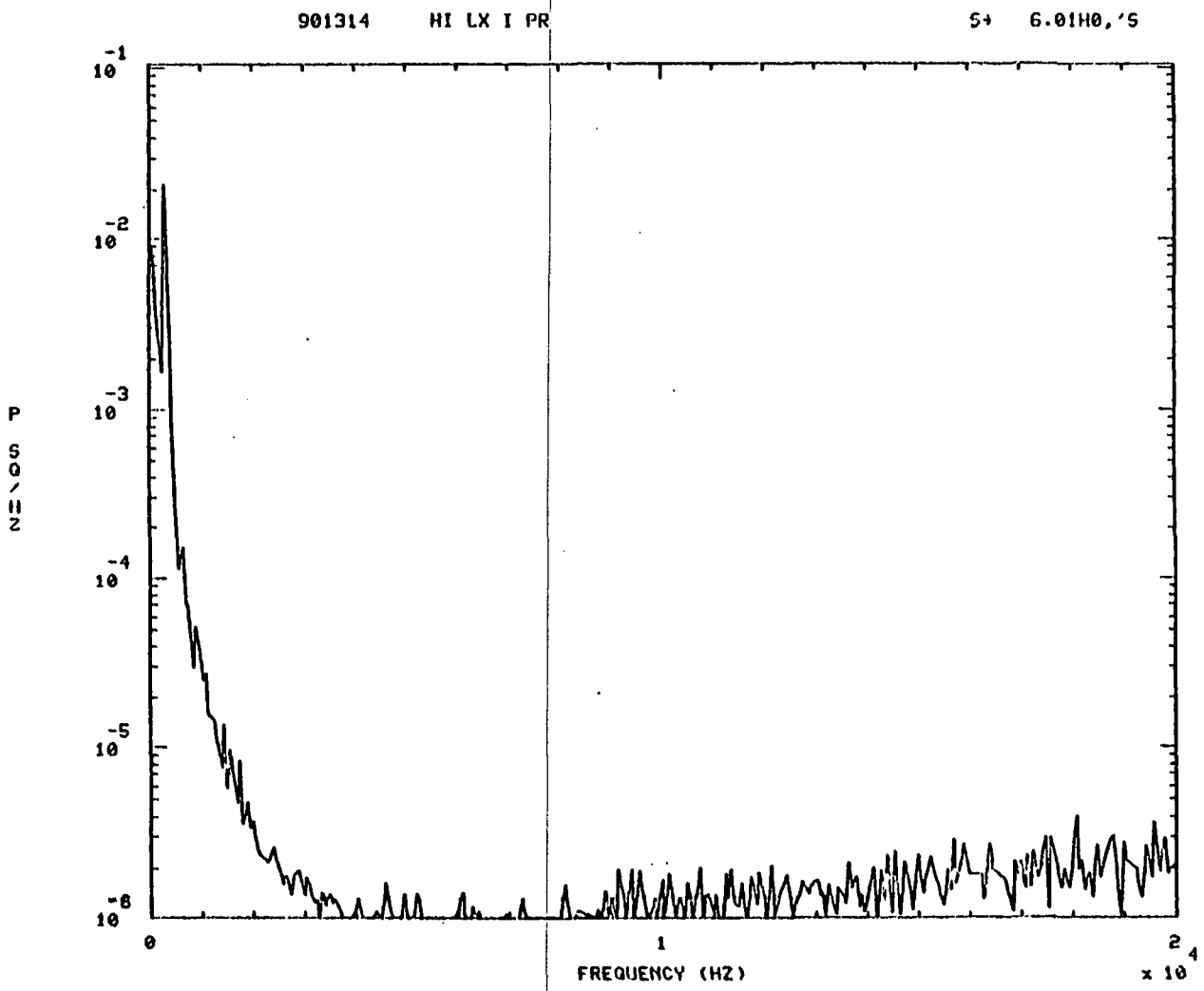

901314 MCC HOT GAS IN PR
S+ 30.01H0,'S
P SQ/HZ
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
3
4
FREQUENCY (HZ)
x 10^4

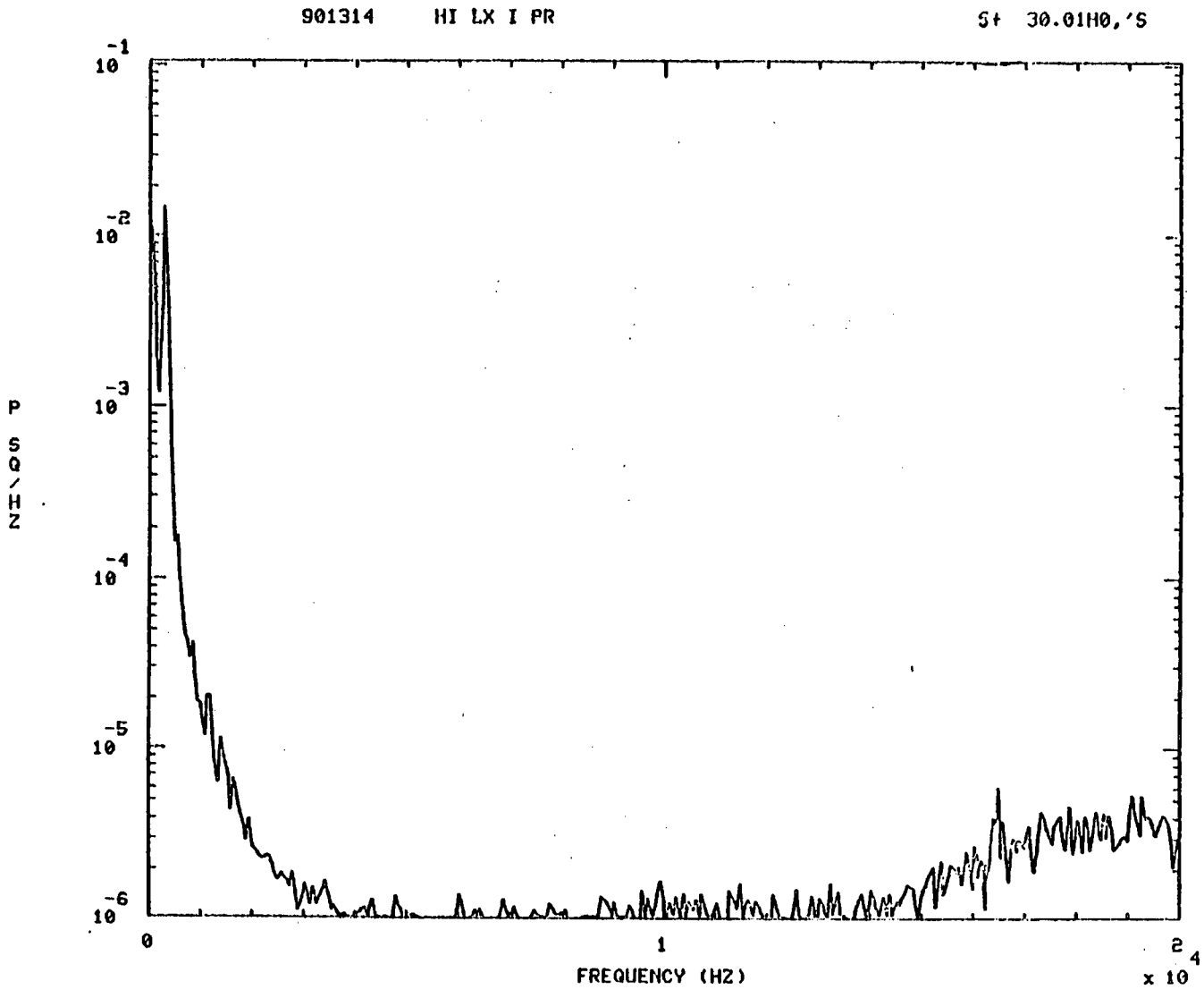

901314 PDP DS PR
S+ 6.01H0,'S
P SQ/HZ
10^3
10^2
10^1
10^0
10^-1
10^-2
0
1
2
FREQUENCY (HZ)
x 10^4

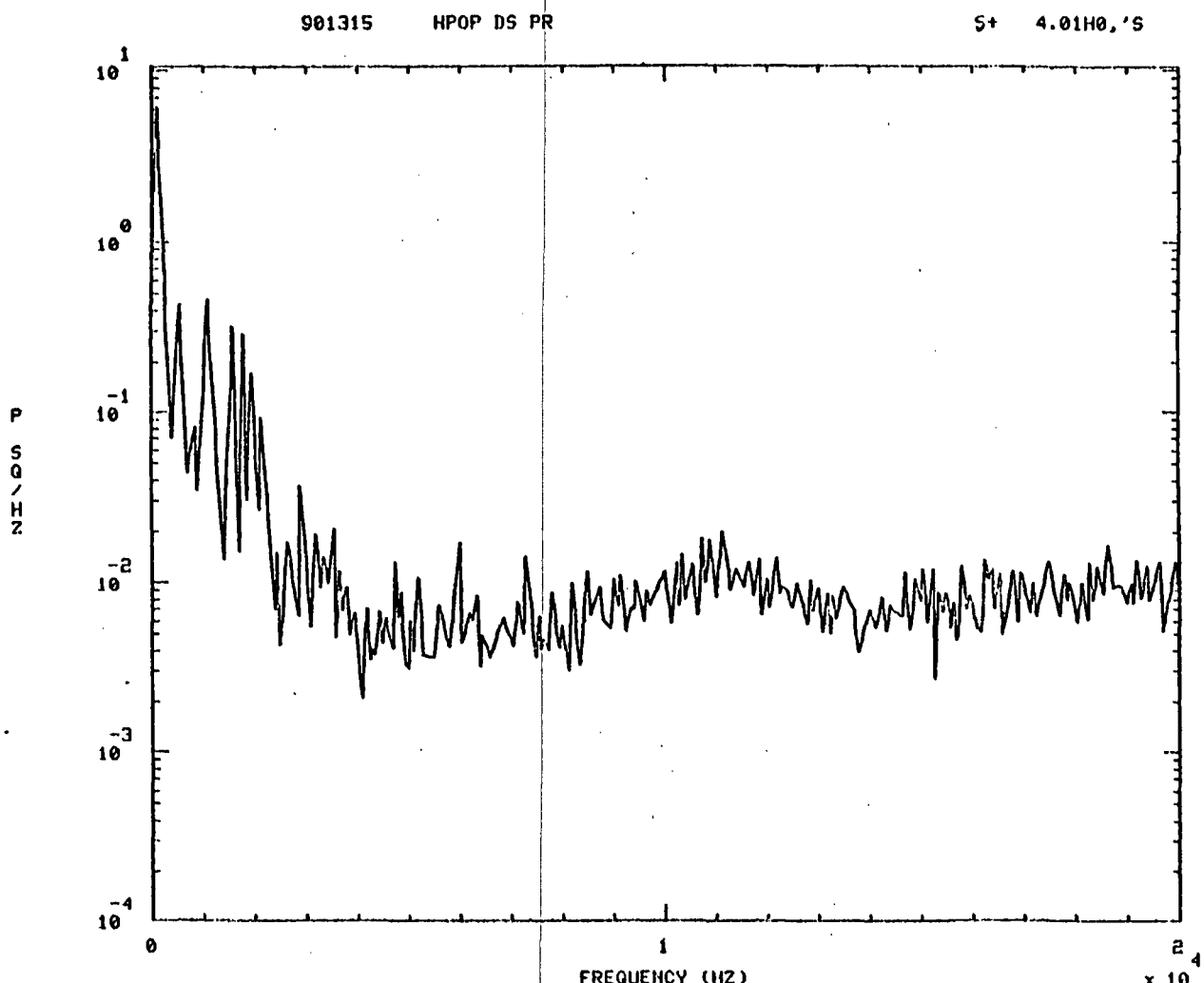

901314 PBP DS PR
S+ 30.01H0,'S
P S Q / H Z
10^3
10^2
10^1
10^0
10^-1
10^-2
0
1
2
FREQUENCY (HZ)
x 10^4

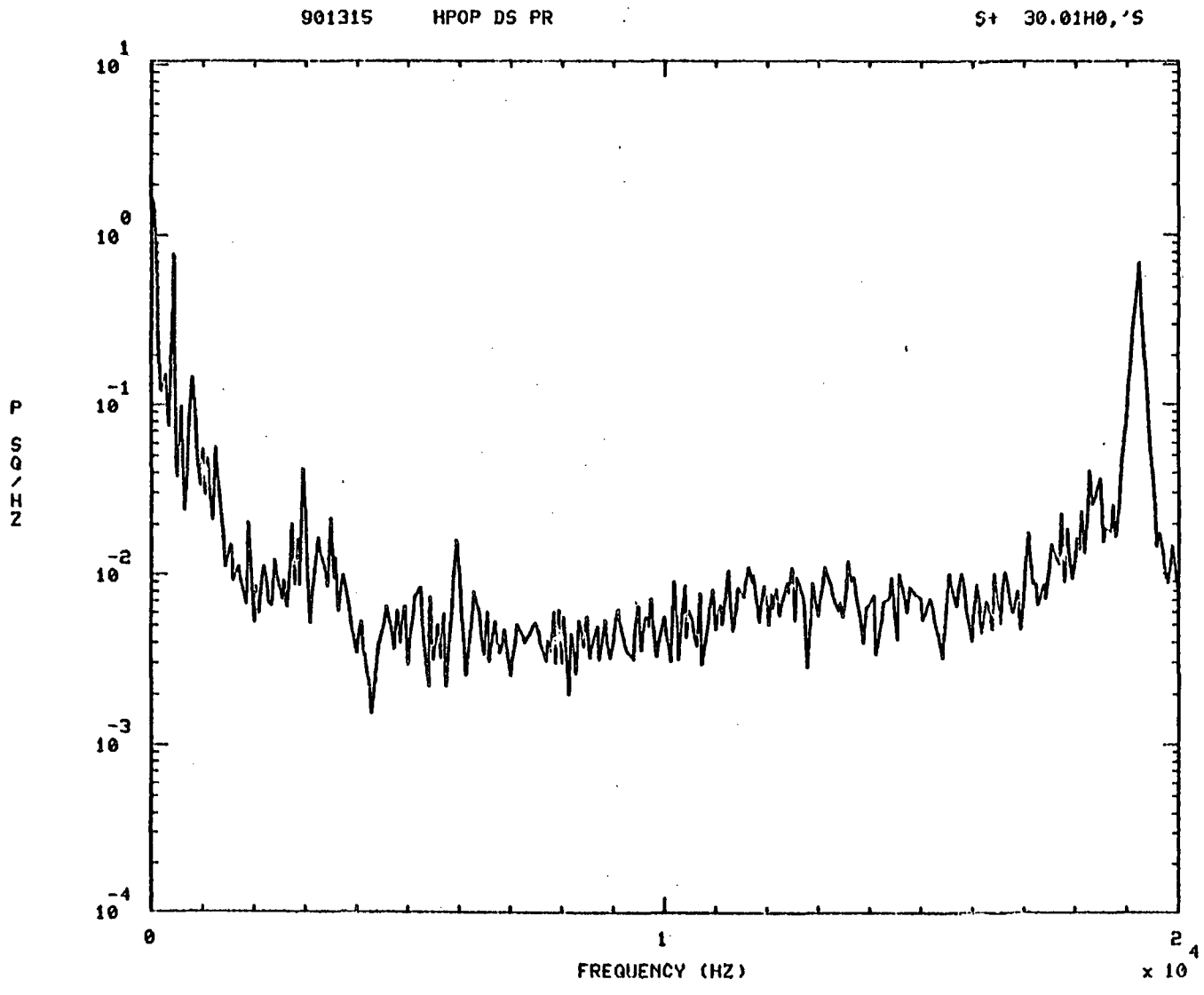

901314 HPOP IN PR
S+ 6.01H0,'S
P S Q \ H Z
10^3
10^2
10^1
10^0
10^-1
10^-2
0
1
2
FREQUENCY (HZ)
x 10^4

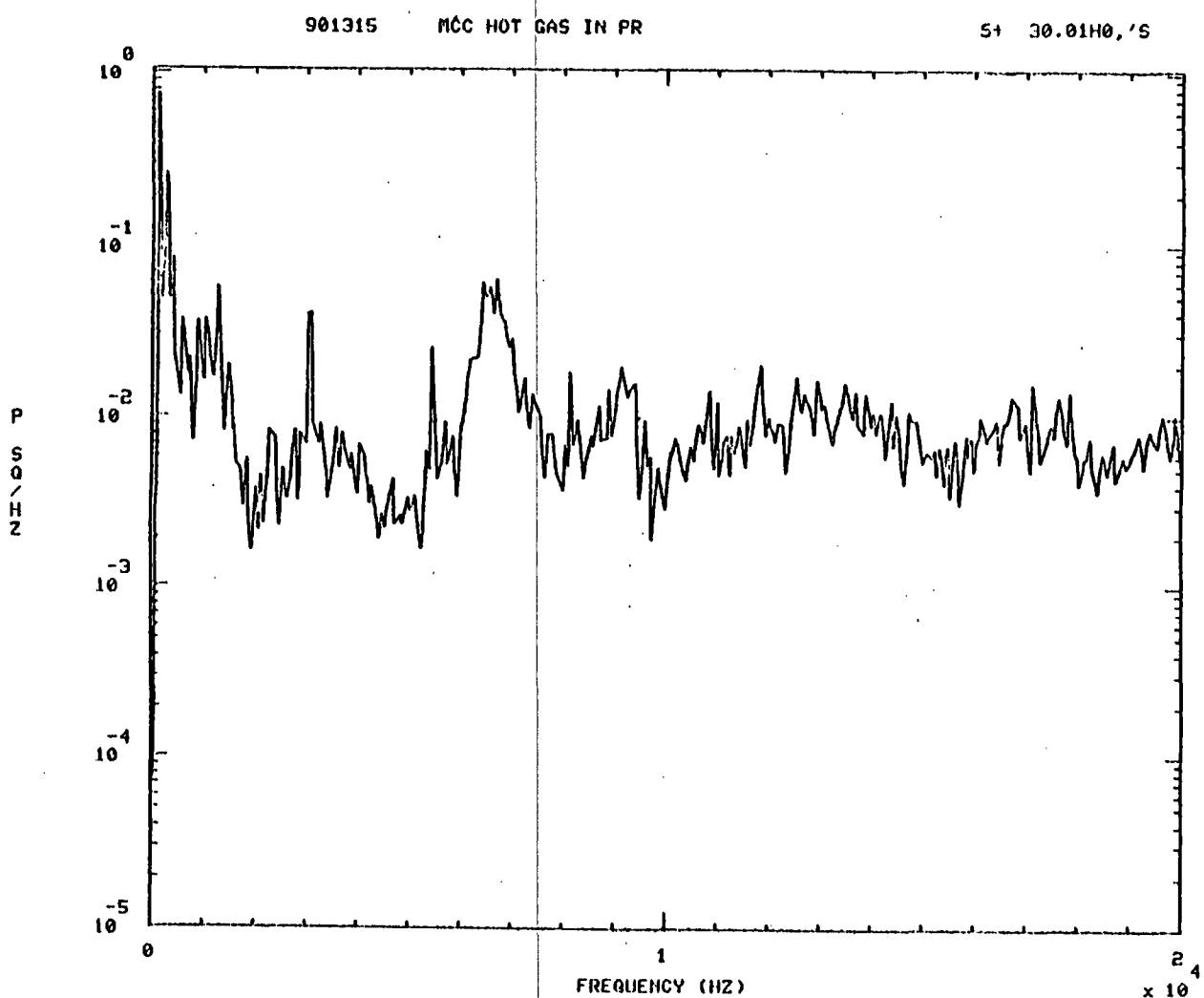

901314 HPOP IN PR
S+ 30.01HQ,'S
P SQ\HZ
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
FREQUENCY (HZ)
x 10^4


901314 HI LX I PR
S+ 6.01H0,'S
P S Q N Z
10^-1
10^-2
10^-3
10^-4
10^-5
10^-6
0
1
2
FREQUENCY (HZ)
x 10^4


901314 HI LX I PR
St 30.01H0,'S
P
S
Q
/
H
Z
10^-1
10^-2
10^-3
10^-4
10^-5
10^-6
0
1
2
FREQUENCY (HZ)
x 10^4


901315 HPOP DS PR
S+ 4.01H0,'S
P
S
Q
\
H
Z
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
FREQUENCY (HZ)
x 10^4


901315 HPOP DS PR
S+ 30.01H0,'S
P S Q / H Z
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
FREQUENCY (HZ)
x 10^4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S+ 30.01H0,'S
P S0\HZ
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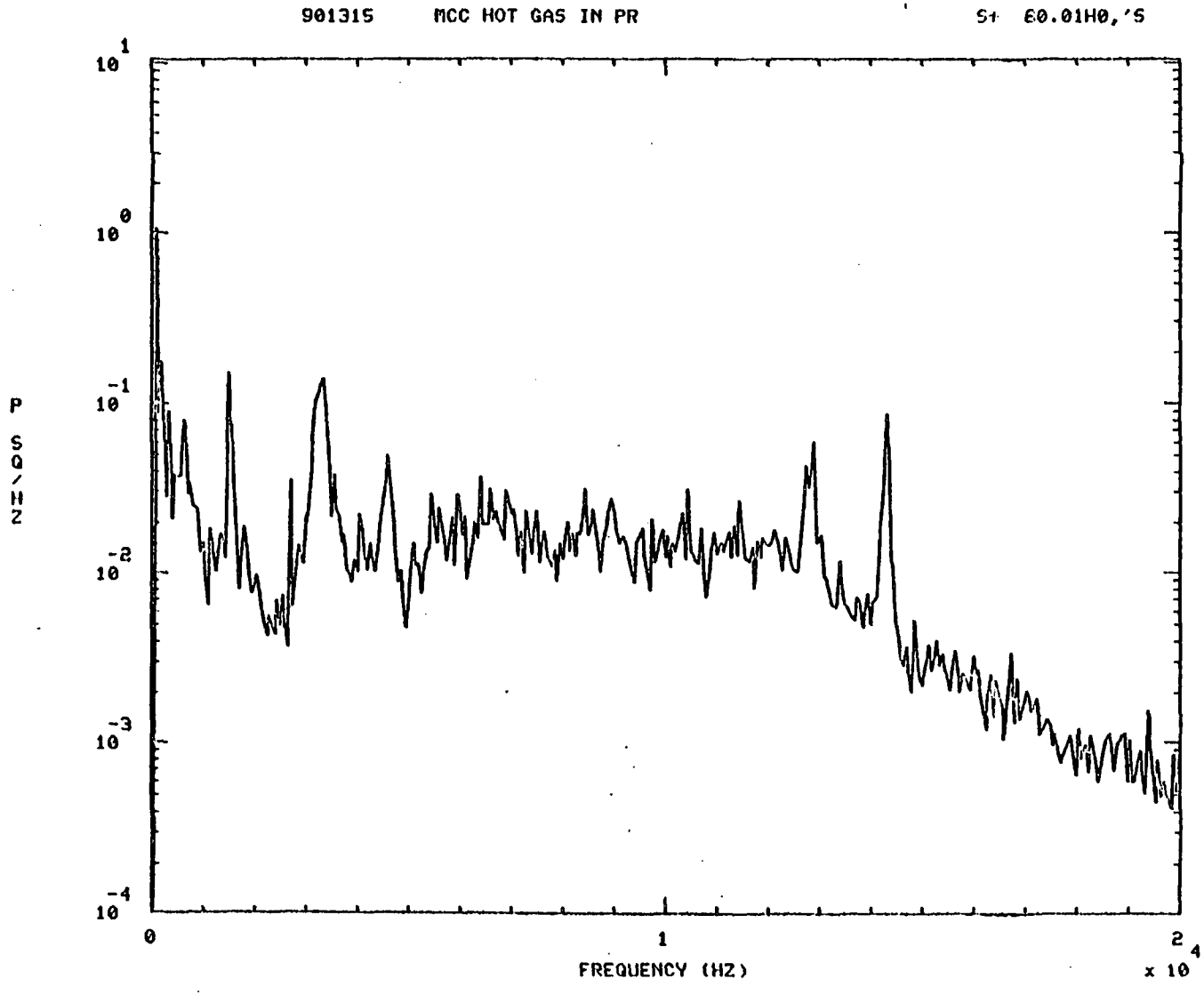
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
FREQUENCY (HZ)
x 10^4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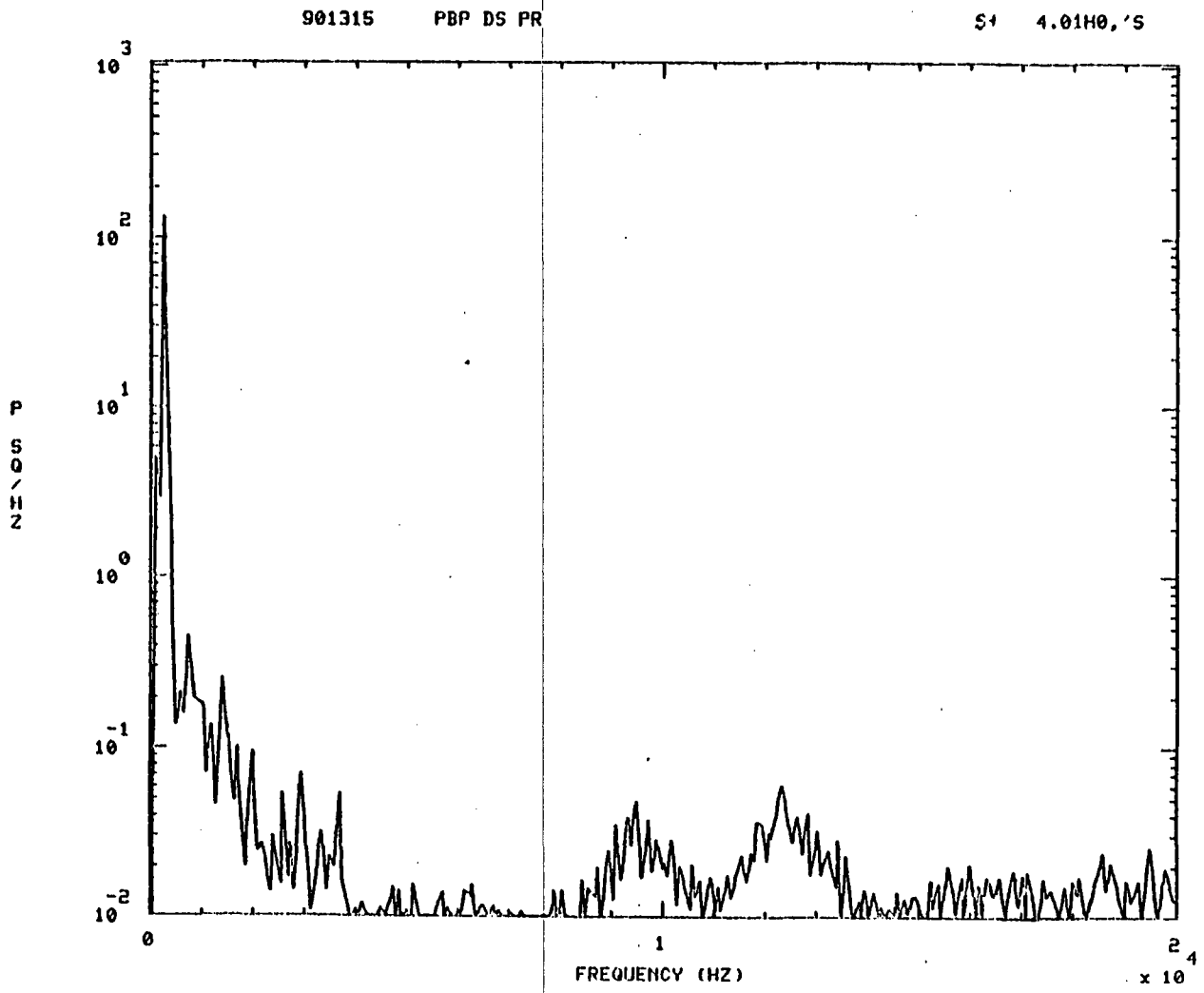
S+ £0.01H0,'S
P SQ\HZ
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
FREQUENCY (HZ)
x 10^4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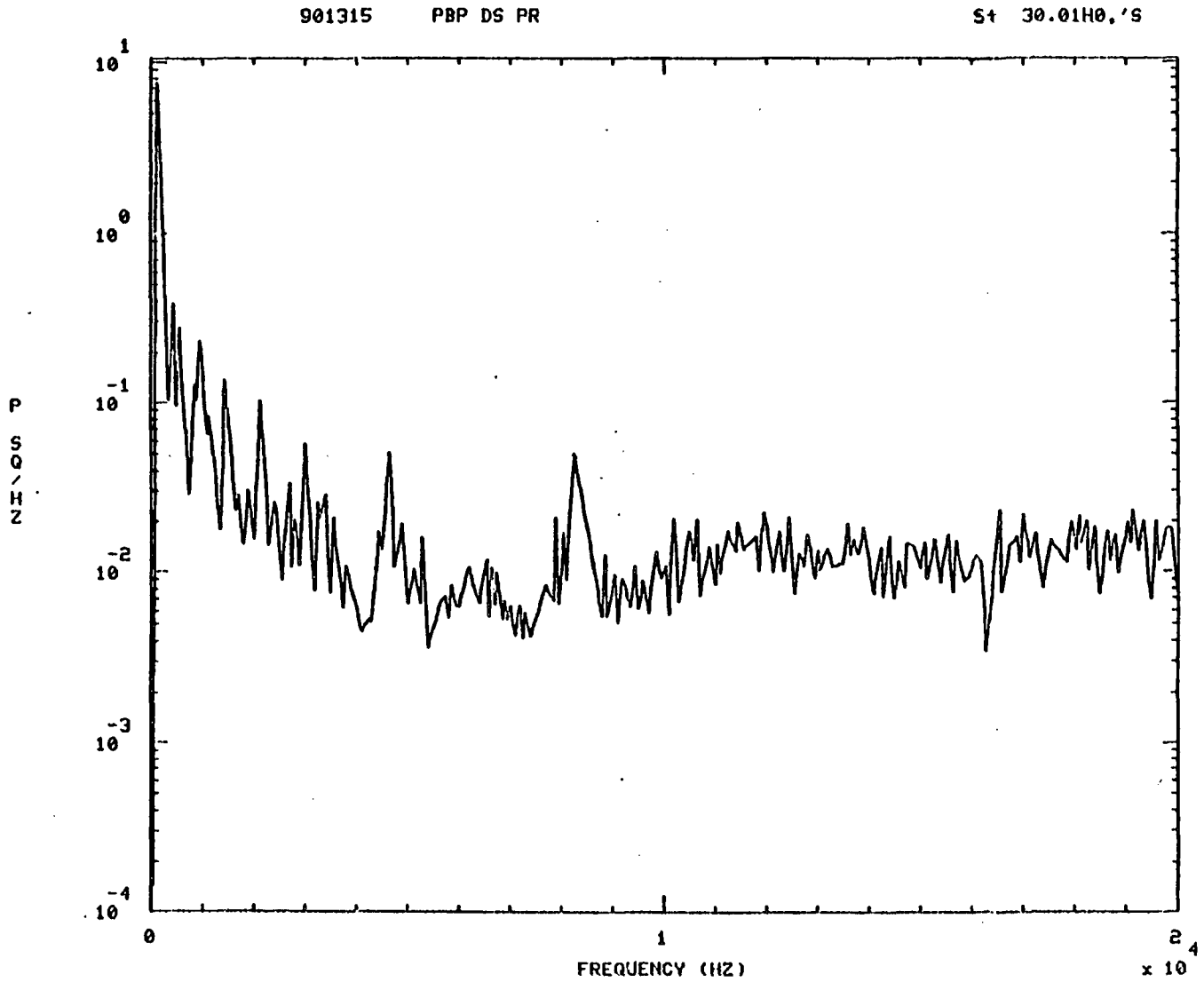
S1 4.01H0,'S
10^3
10^2
10^1
10^0
10^{-1}
10^{-2}
P
S
Q
\
H
Z
0
1
2
4
x 10
FREQUENCY (HZ)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St 30.01H0,'S
P S Q / H Z
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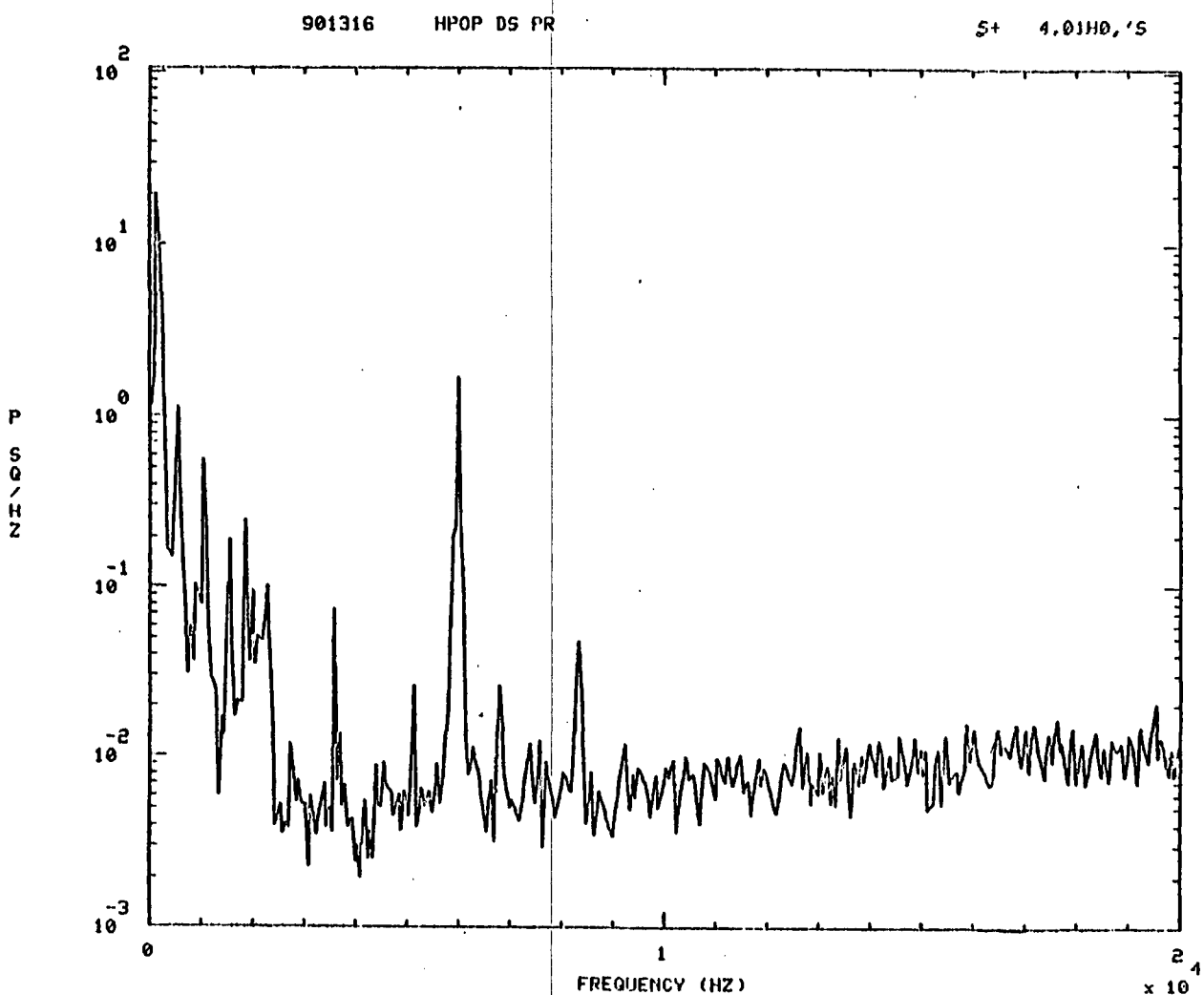
10 0
10 -1
10 -2
10 -3
10 -4
0
1
2
FREQUENCY (HZ)
x 10 4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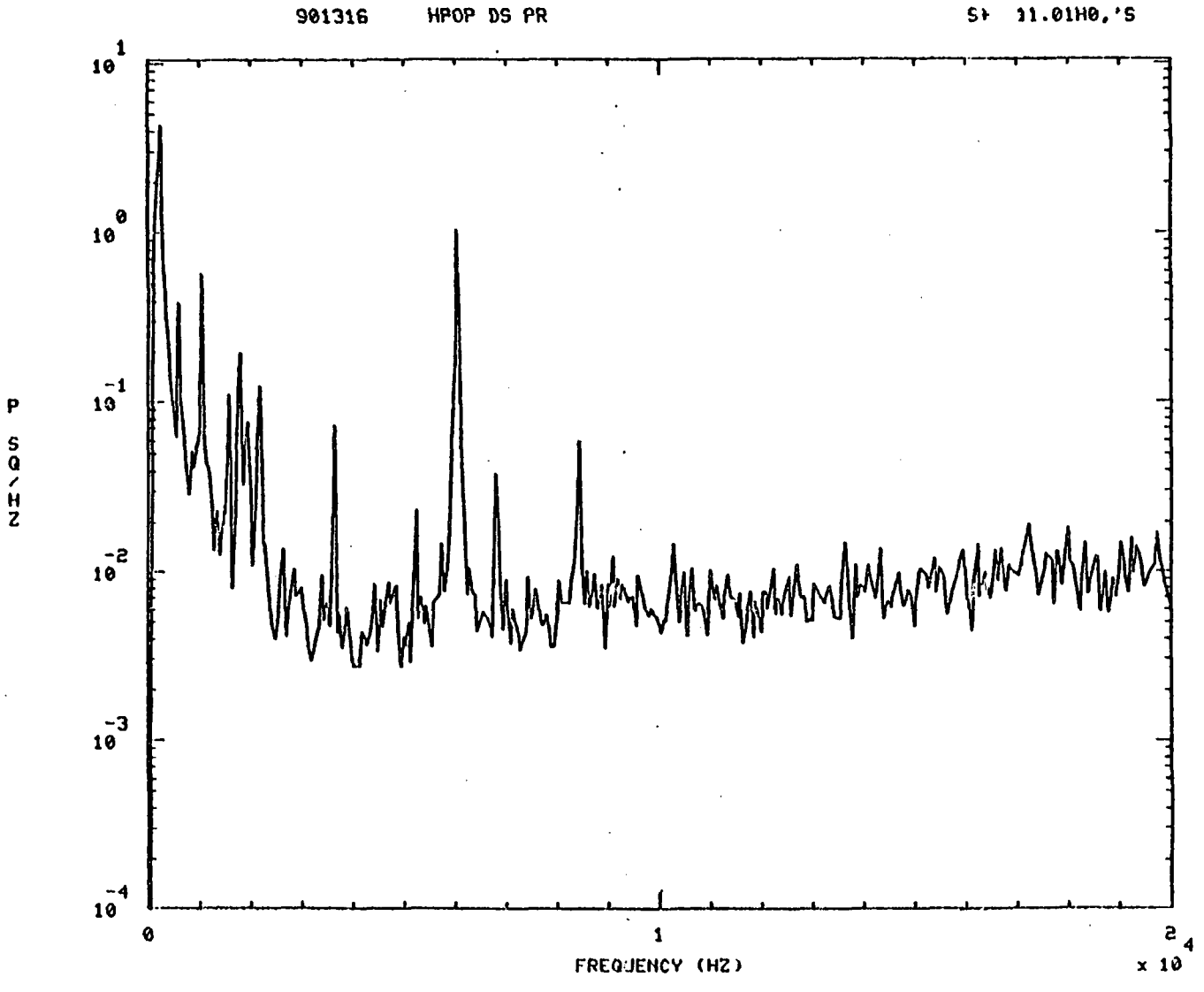
S+ 4.01H0,'S
P S Q / H Z
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4


901316 HPOP DS PR
S+ 11.01H0,'S
P S Q \ H Z
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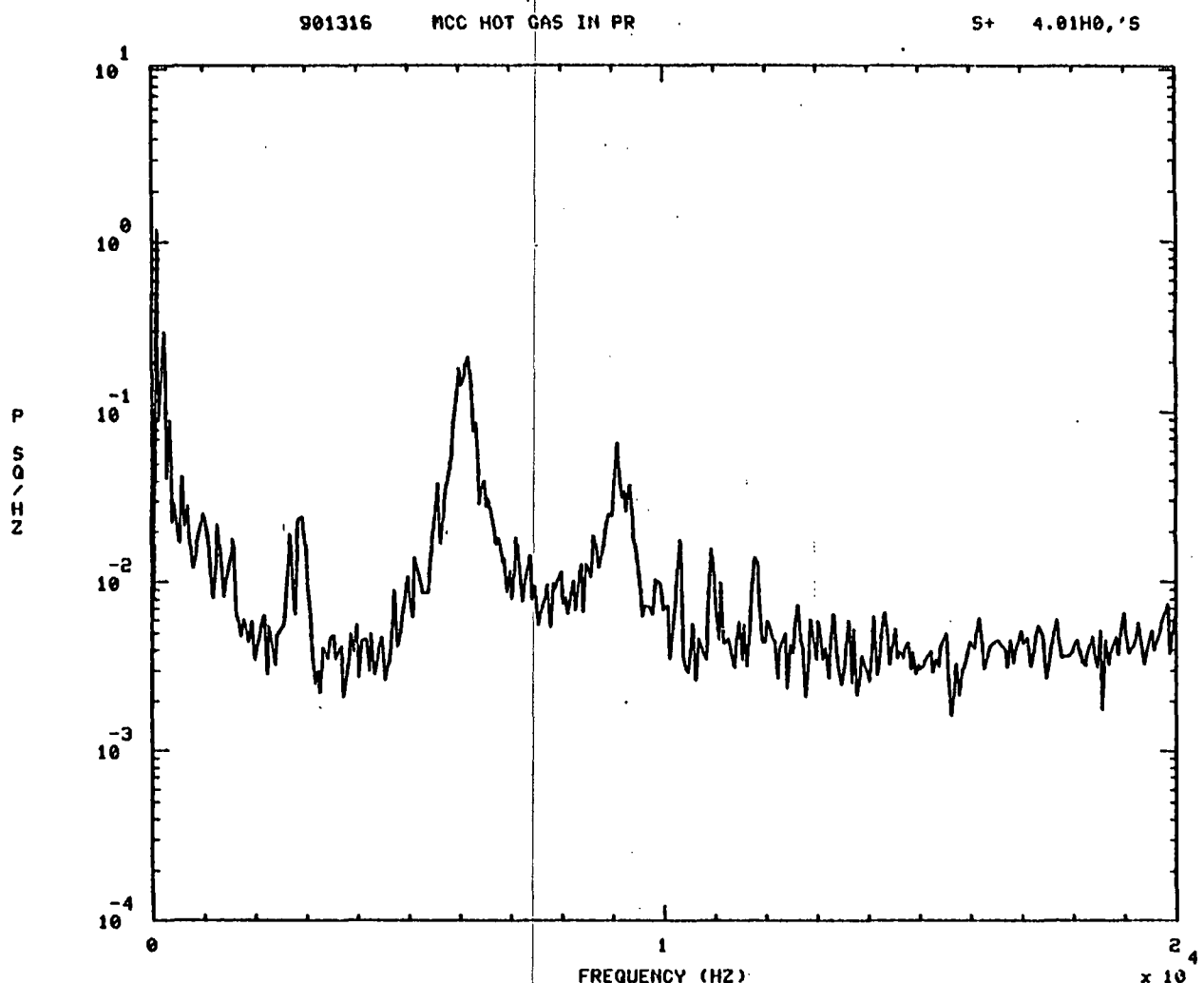
10 0
10 -1
10 -2
10 -3
10 -4
0
1
2
FREQUENCY (HZ)
x 10 4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S+ 4.01H0,'S
P SQ/HZ
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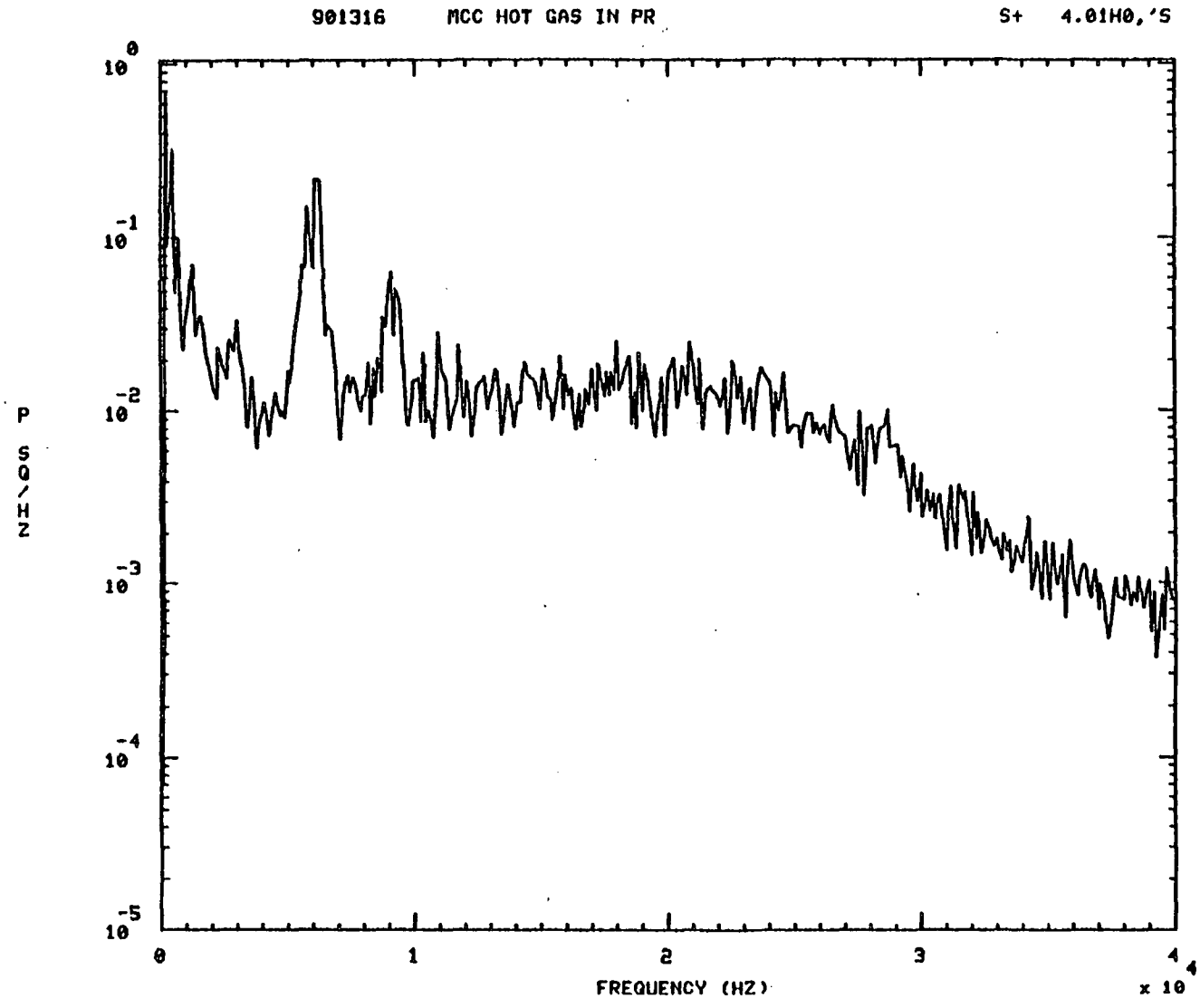
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
FREQUENCY (HZ)
x 10^4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S+ 4.01H0,'S
P S Q / H Z
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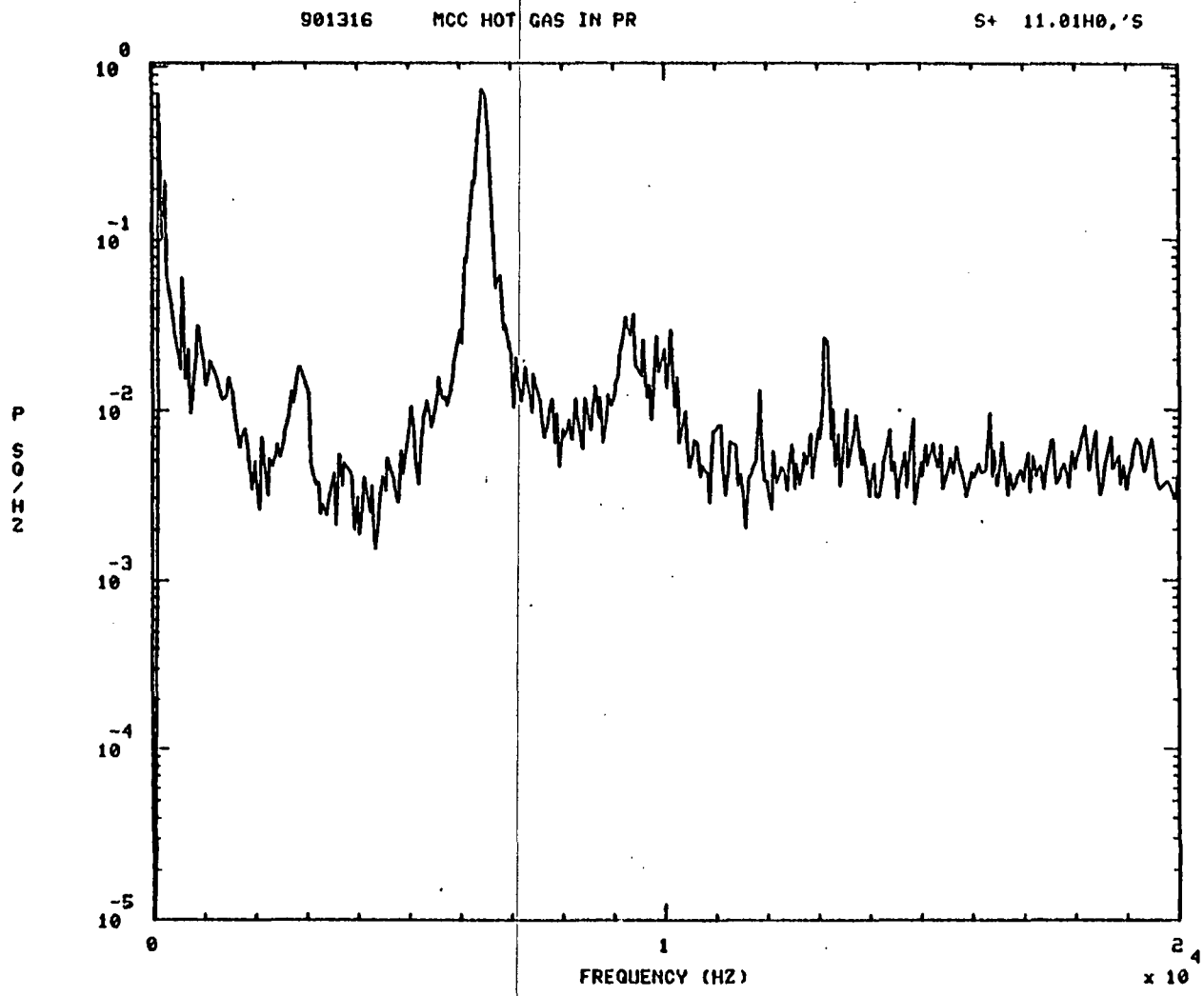
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
3
4
FREQUENCY (HZ)
x 10^4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S+ 11.01H0,'S
P S0/HZ
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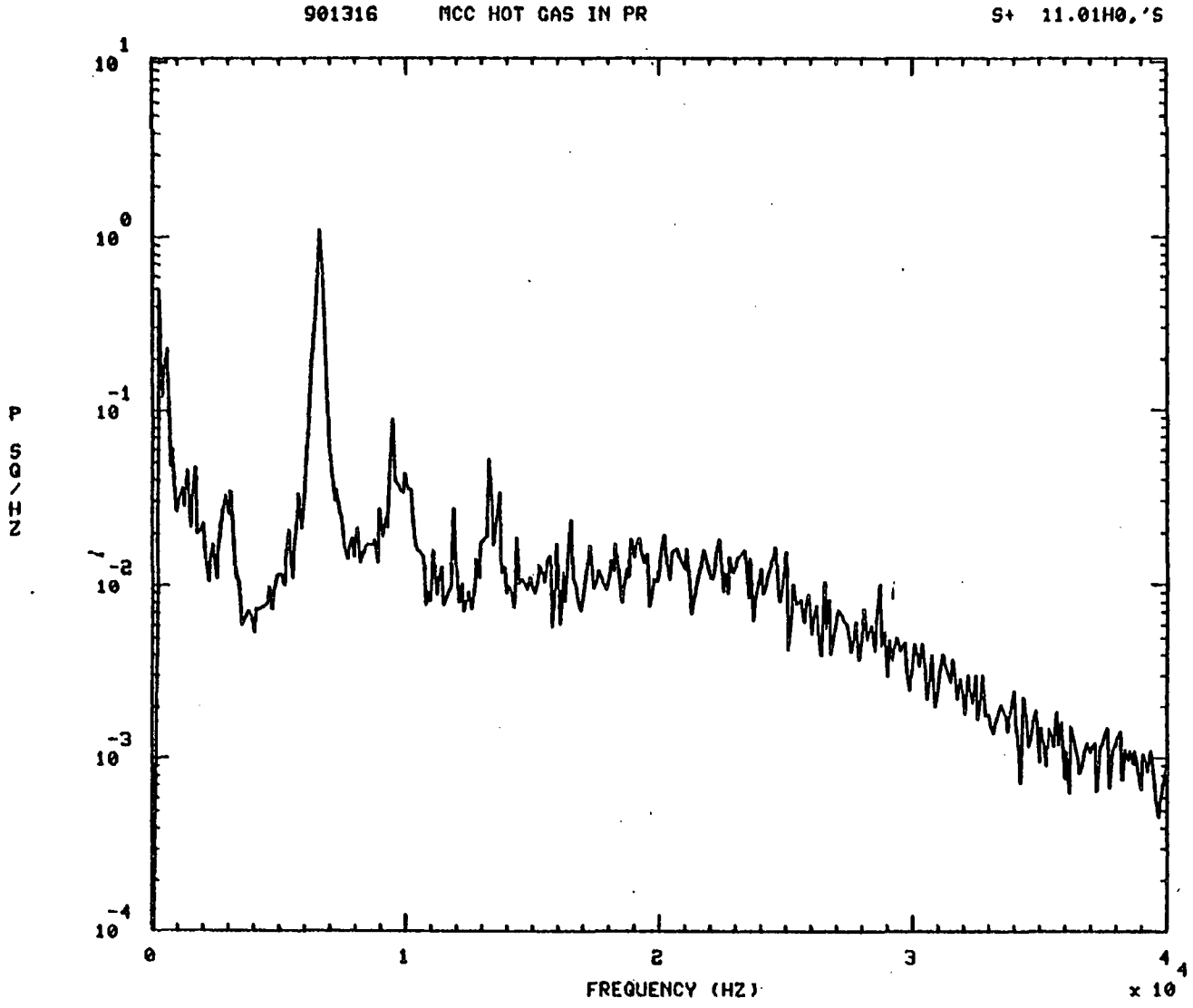
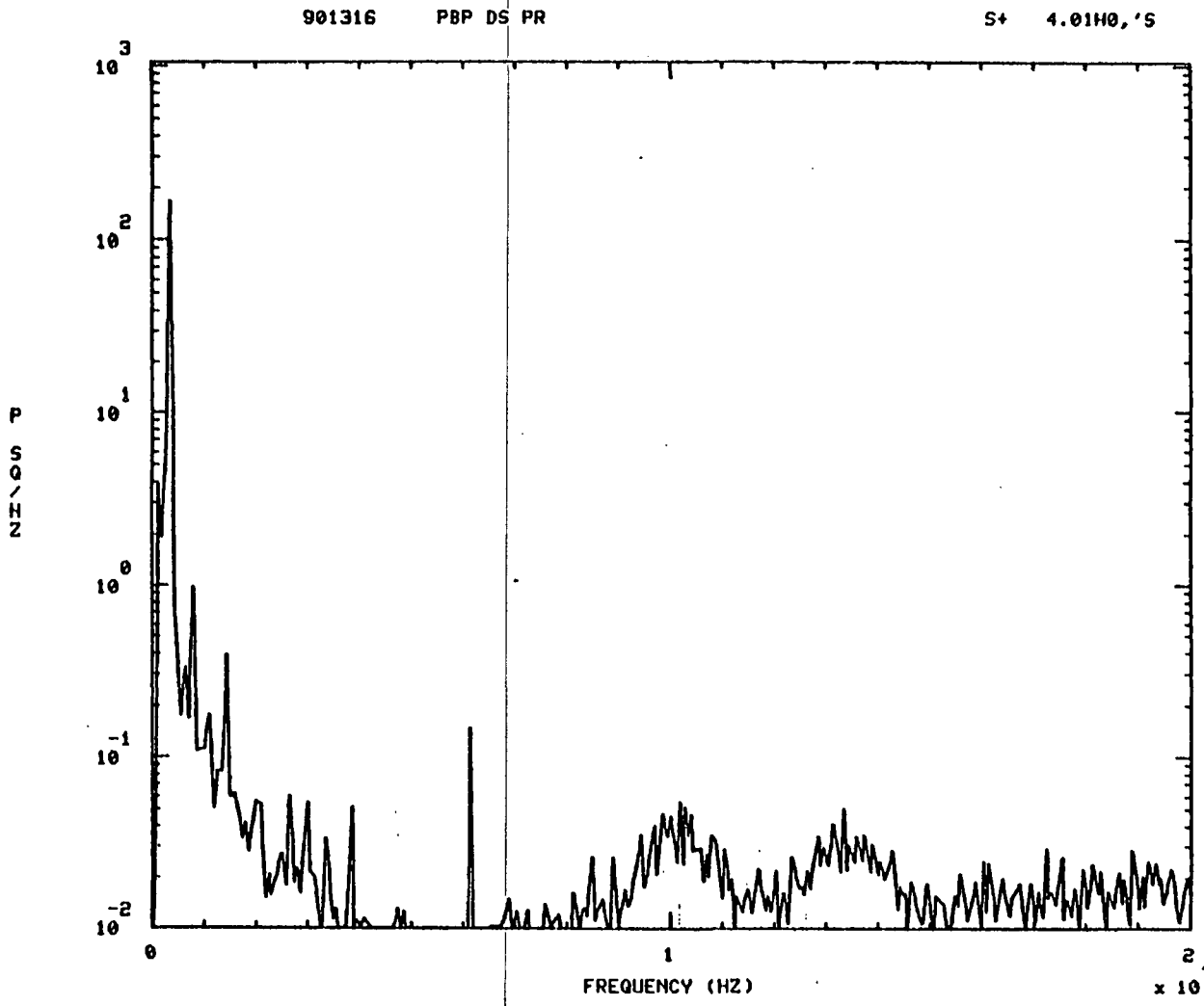
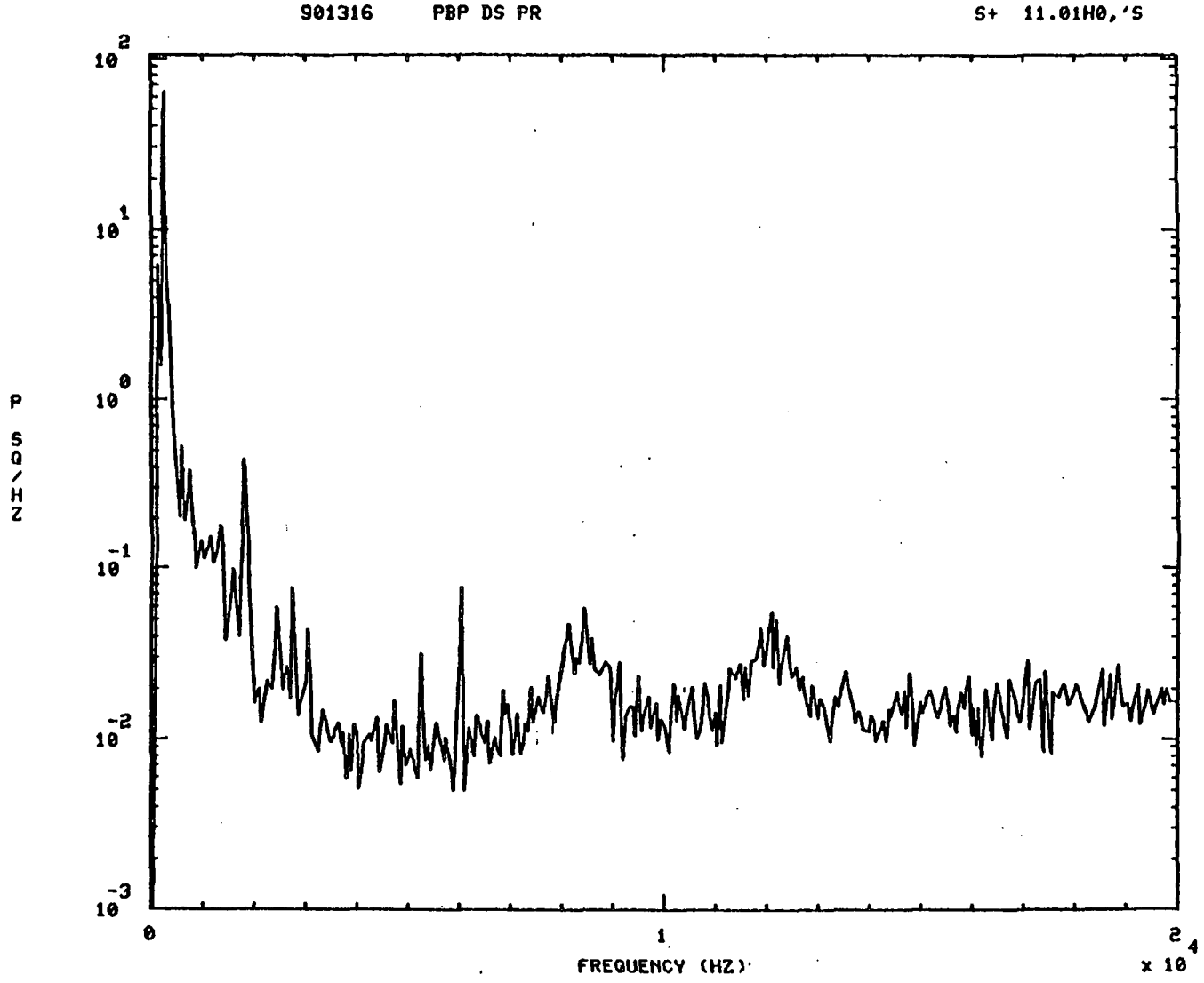
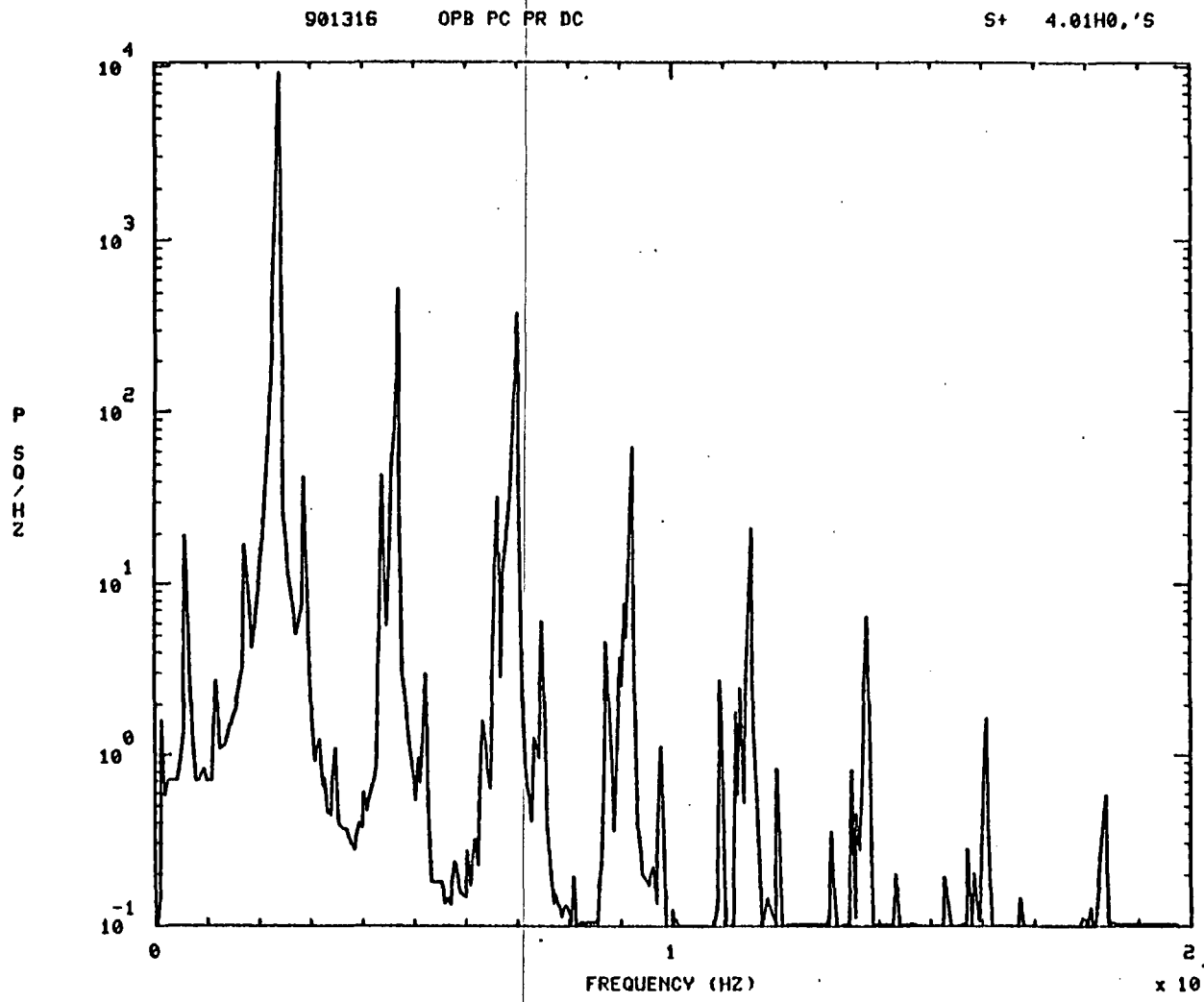
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
4
x 10
FREQUENCY (HZ)


901316 MCC HOT GAS IN PR
S+ 11.01H0,'S
P
SQ/HZ
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
3
4
FREQUENCY (HZ)
x 10^4


901316 PBP DS PR
S+ 4.01H0,'S
P S Q \ H Z
10^3
10^2
10^1
10^0
10^-1
10^-2
0
1
2
4
FREQUENCY (HZ)
x 10


901316 PBP DS PR
S+ 11.01H0,'S
P SQ\HZ
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4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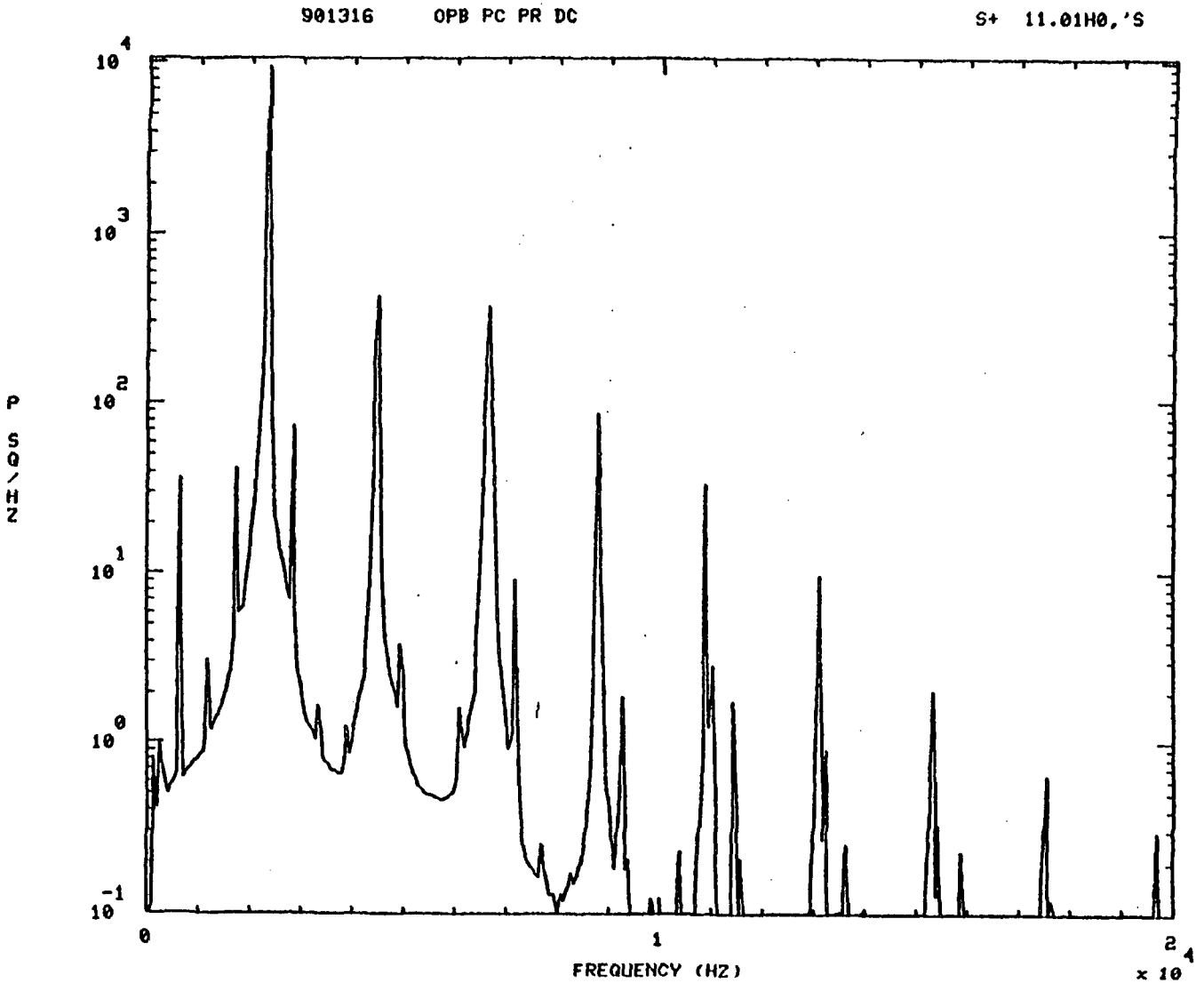
S+ 4.01H0,'S
P S Q/H Z
10^4
10^3
10^2
10^1
10^0
10^-1
0
1
2
4
x 10
FREQUENCY (HZ)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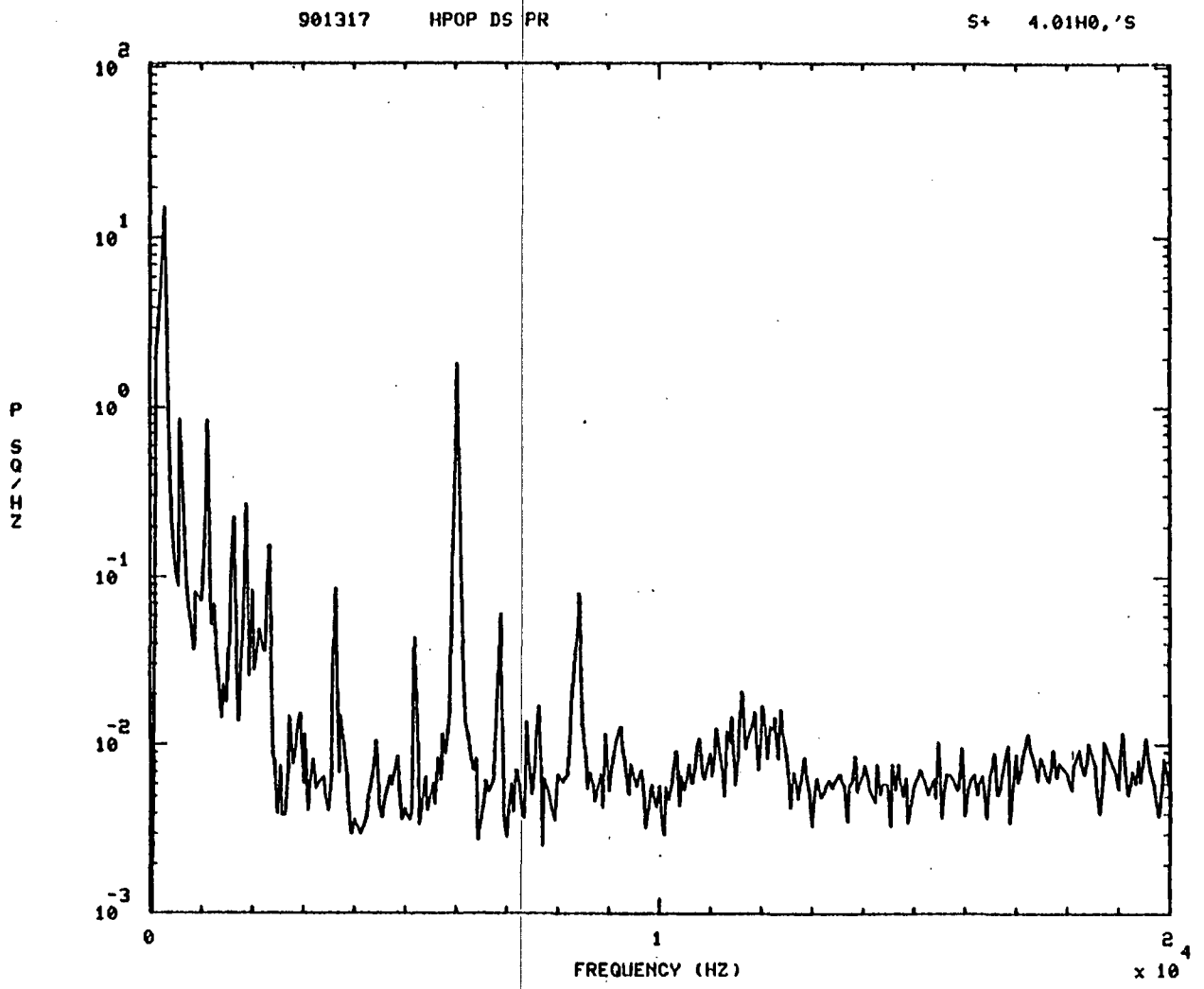
S+ 11.01H0,'S
P SQ\HZ
10^4
10^3
10^2
10^1
10^0
10^-1
0
1
2
FREQUENCY (HZ)
x 10^4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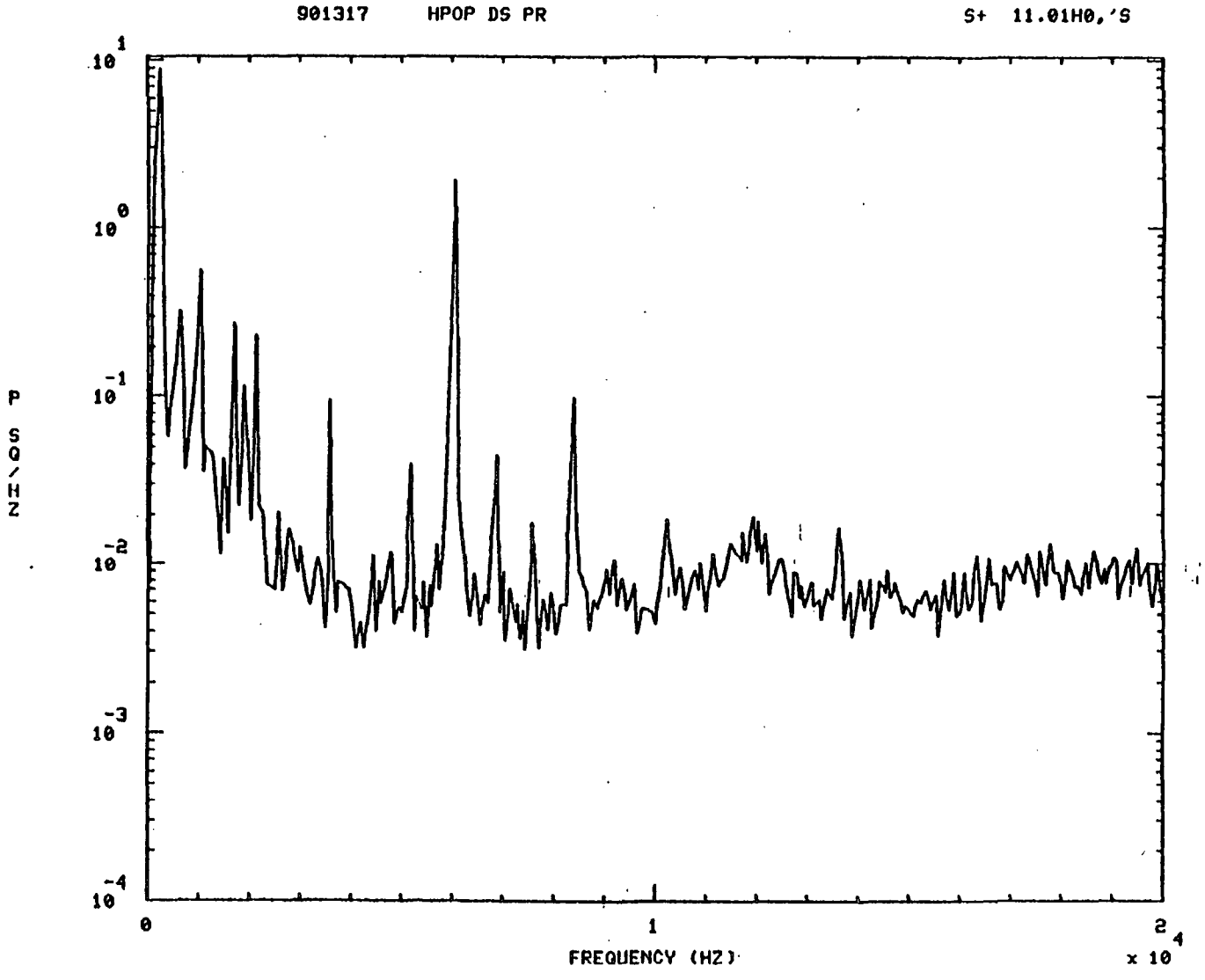
S+ 4.01H0,'S
P S Q / H Z
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4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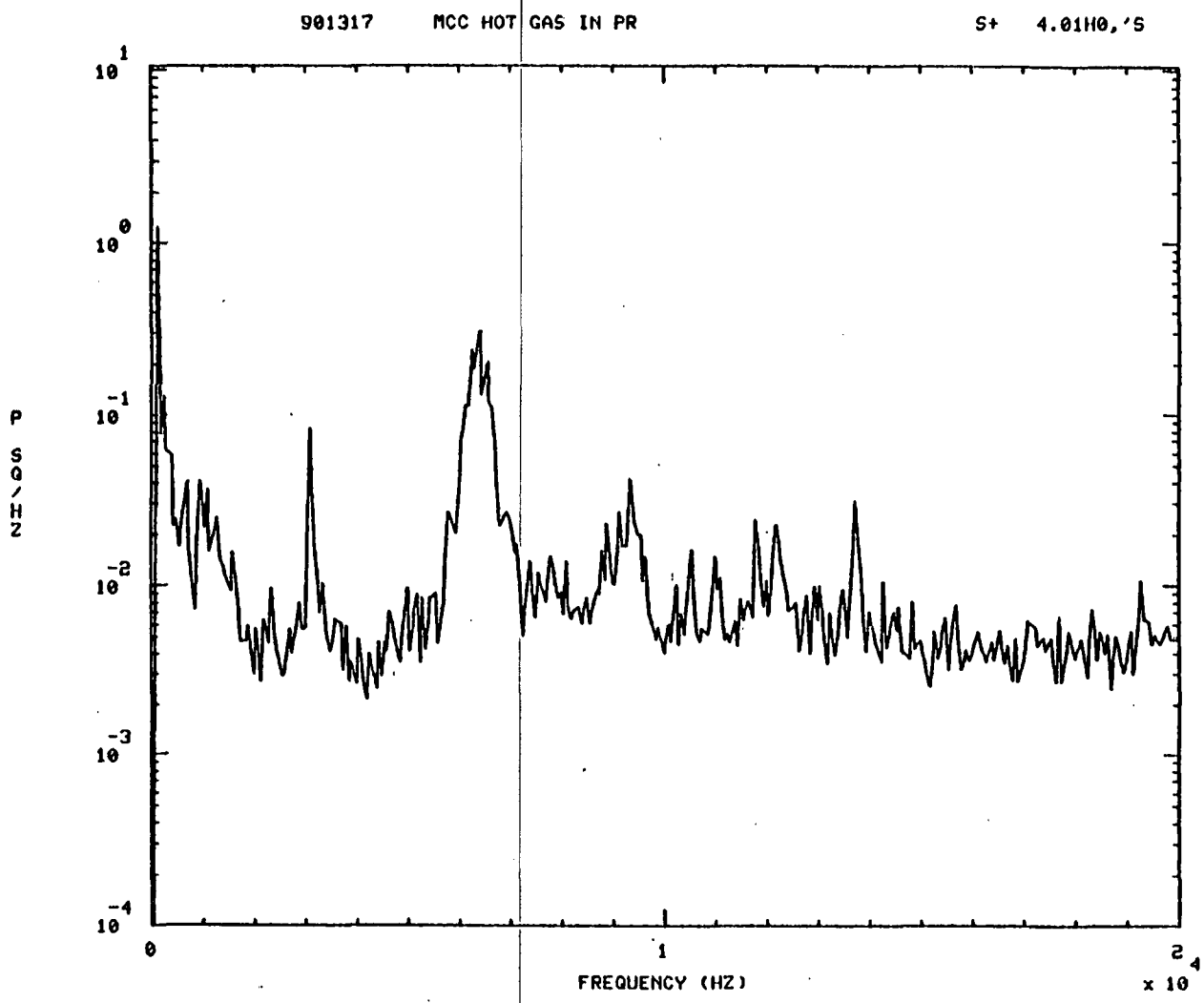
S+ 11.01H0,'S
P S Q / H Z
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
FREQUENCY (HZ)
x 10^4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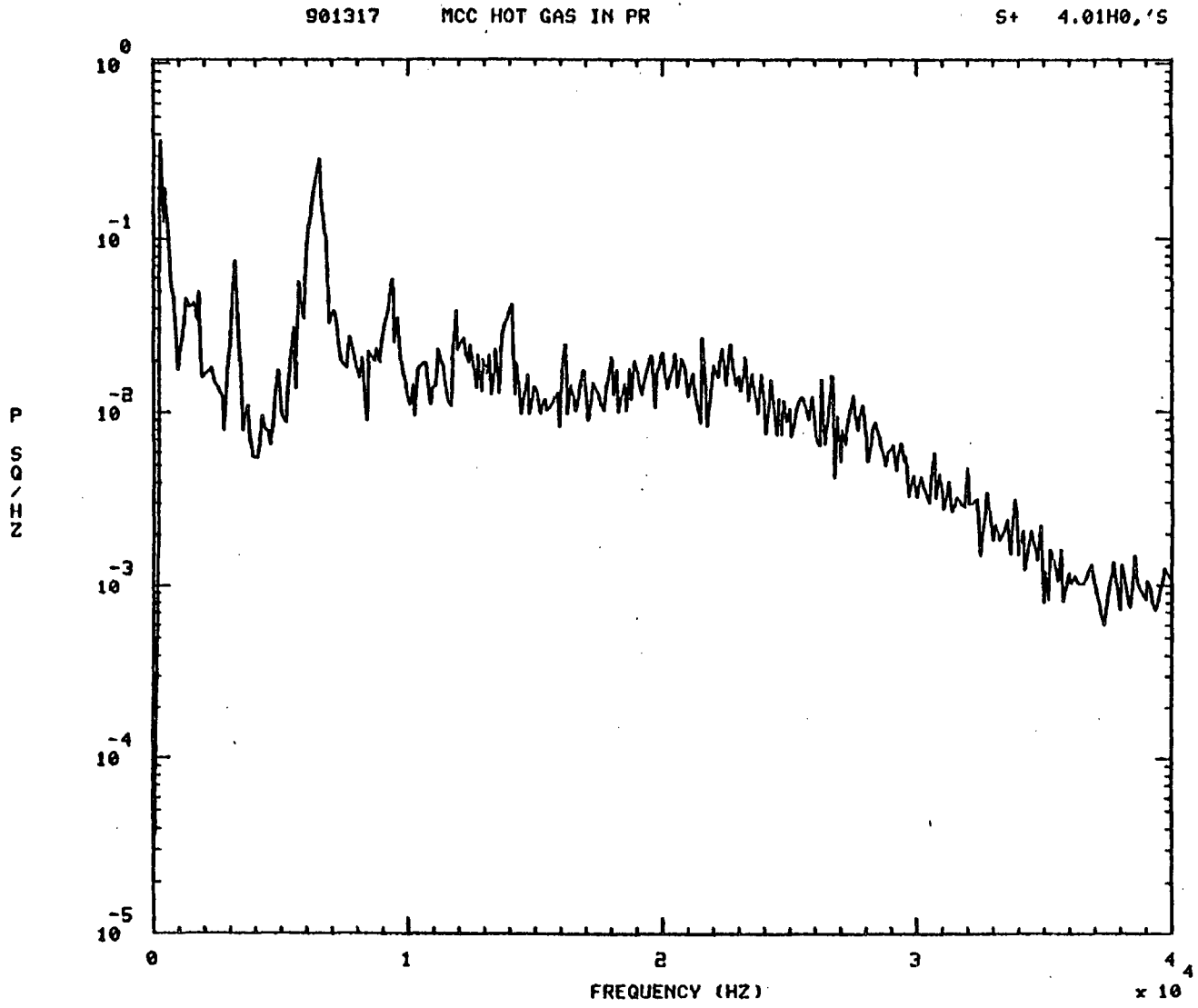
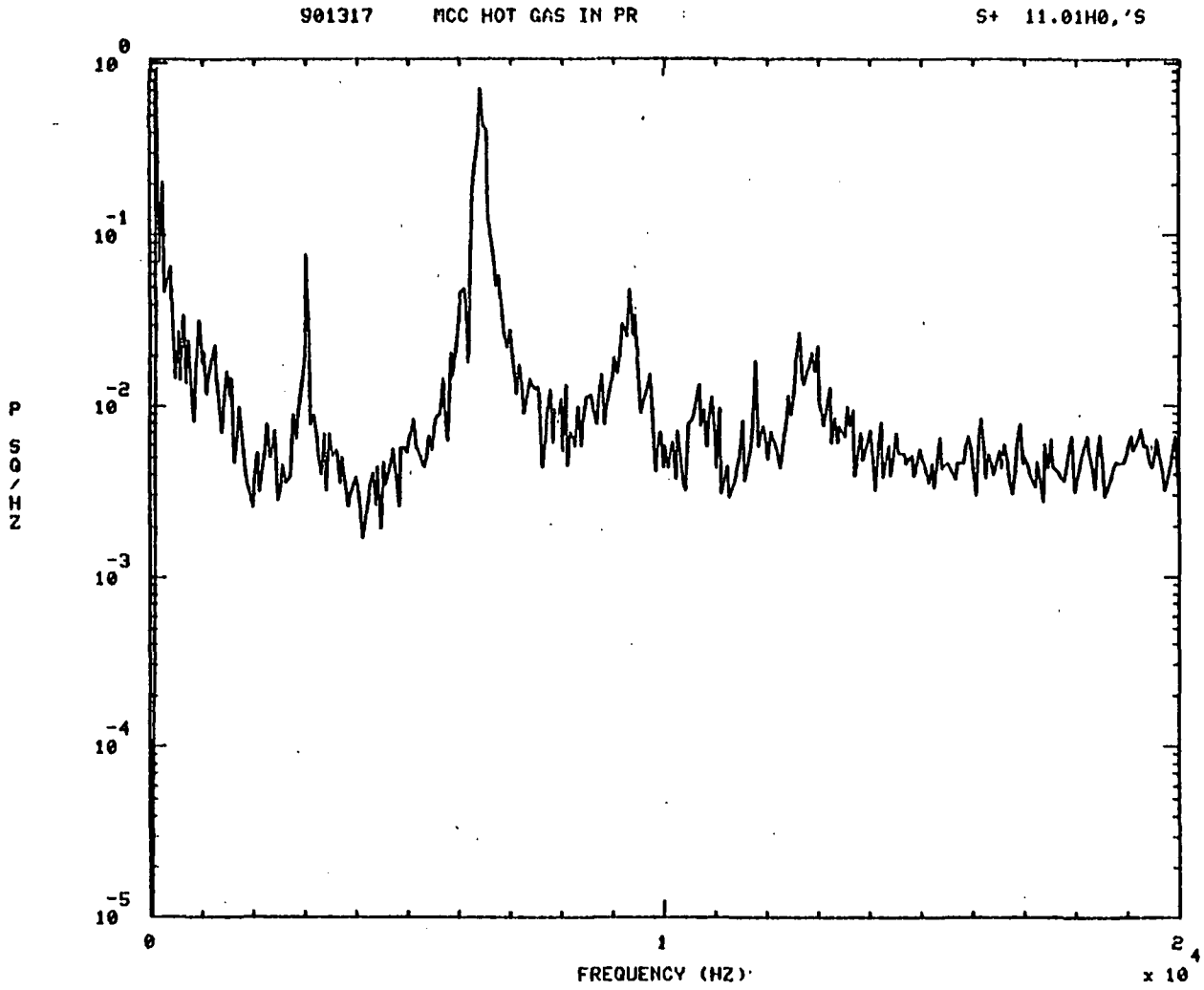
S+ 4.01H0,'S
P SQ/HZ
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
4
x 10
FREQUENCY (HZ)


901317 MCC HOT GAS IN PR
S+ 4.01H0,'S
P S Q / H Z
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
3
4
FREQUENCY (HZ)
x 10^4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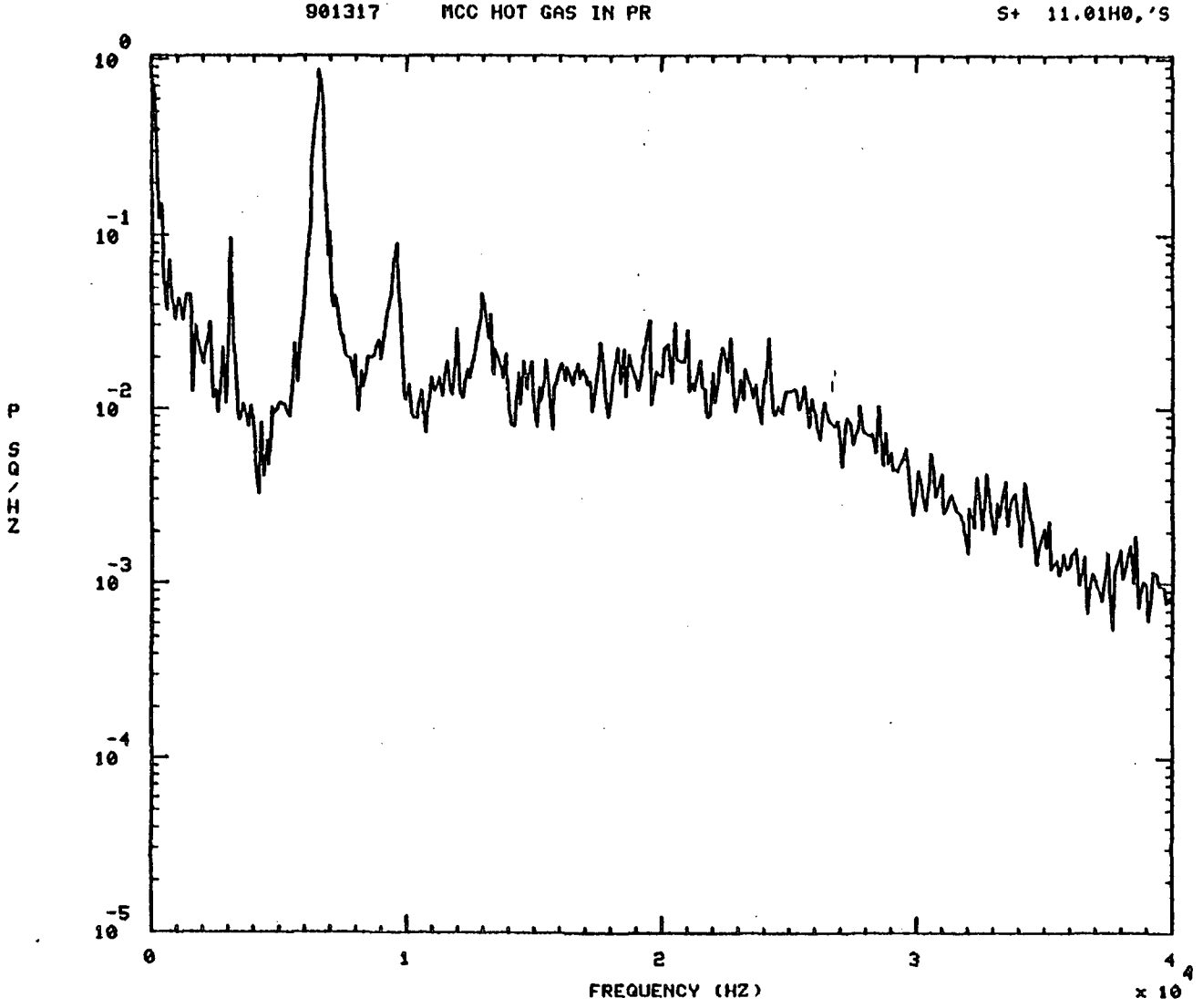
S+ 11.01H0,'S
P S Q / H Z
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
4
x 10
FREQUENCY (HZ)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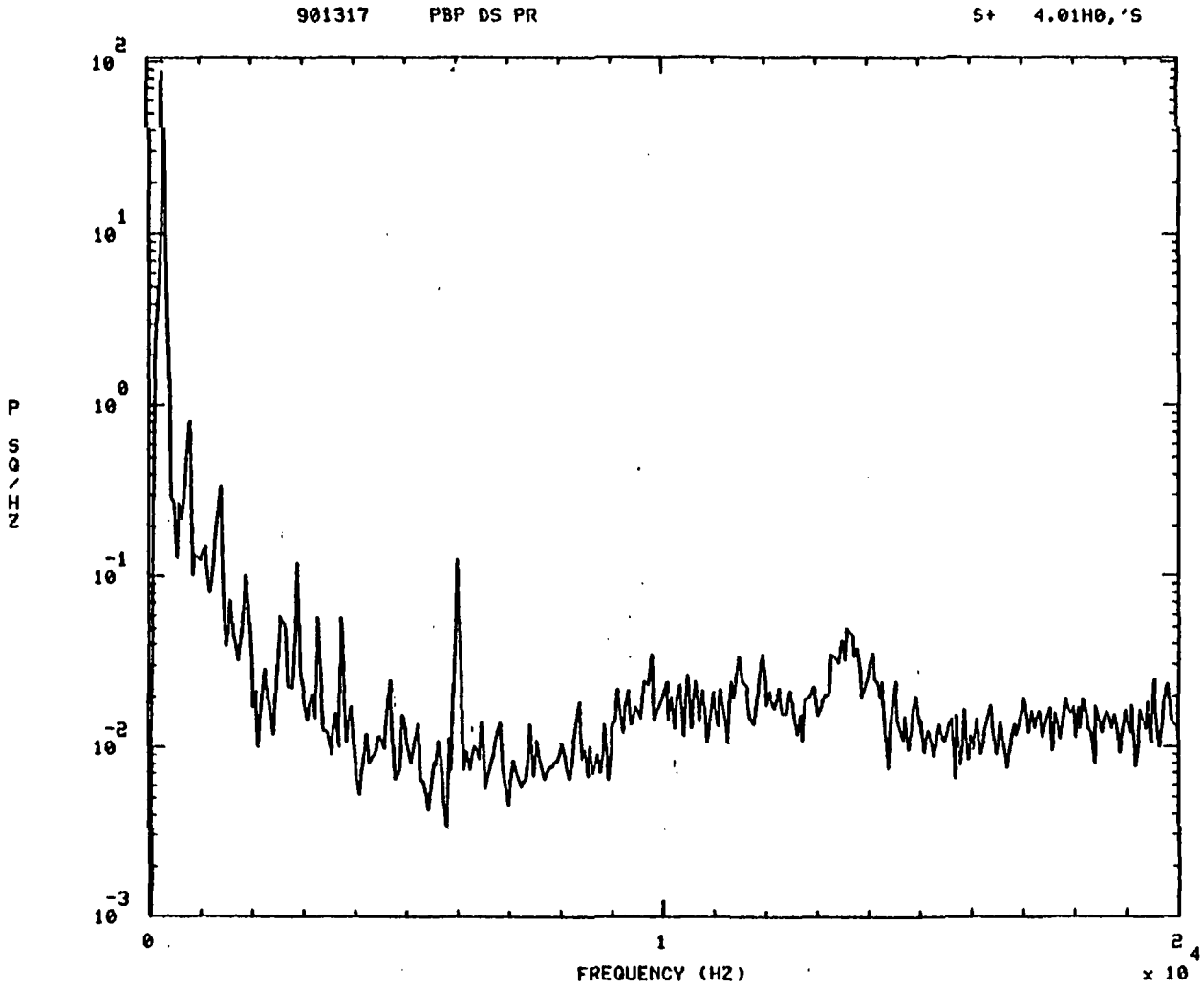
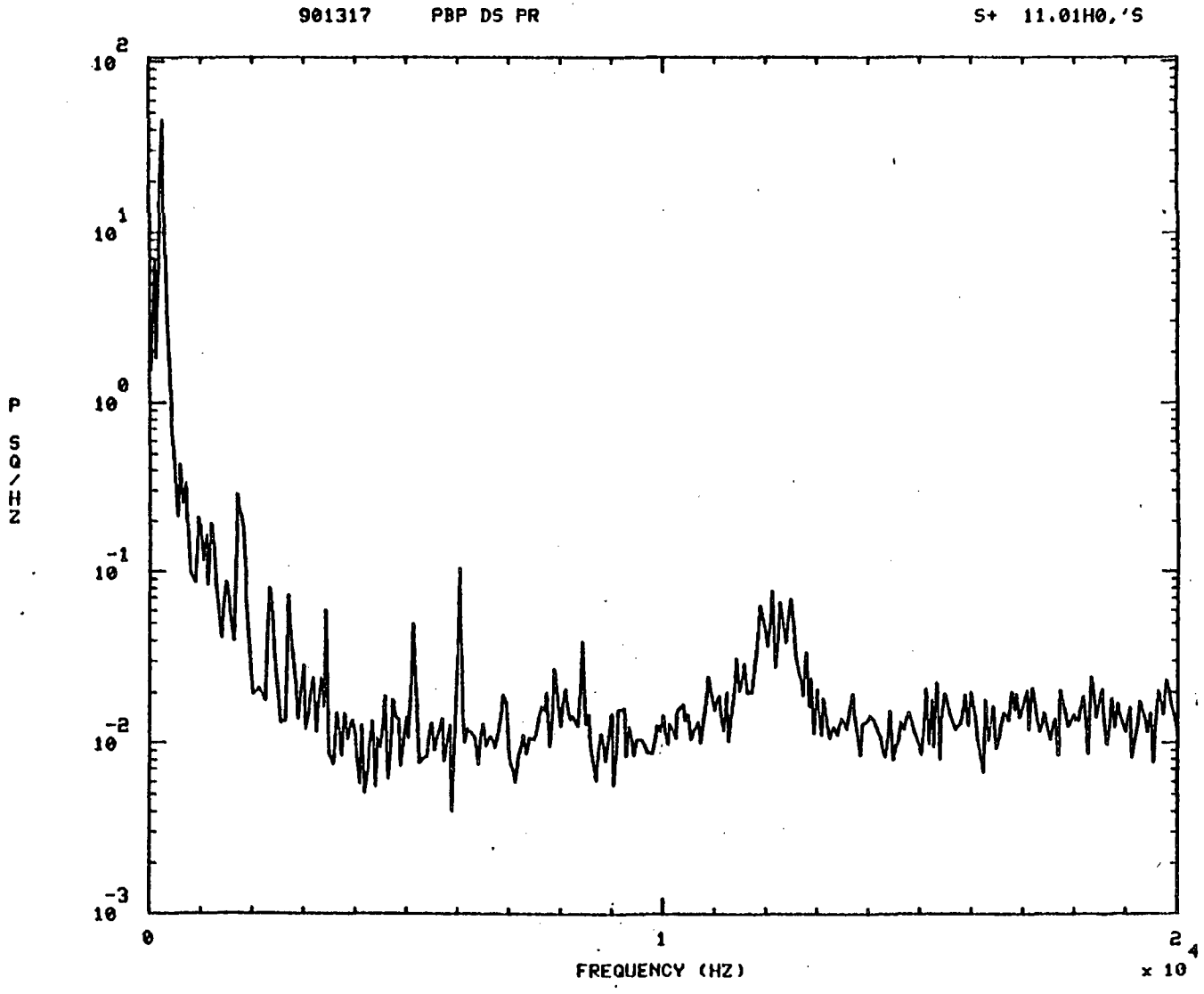
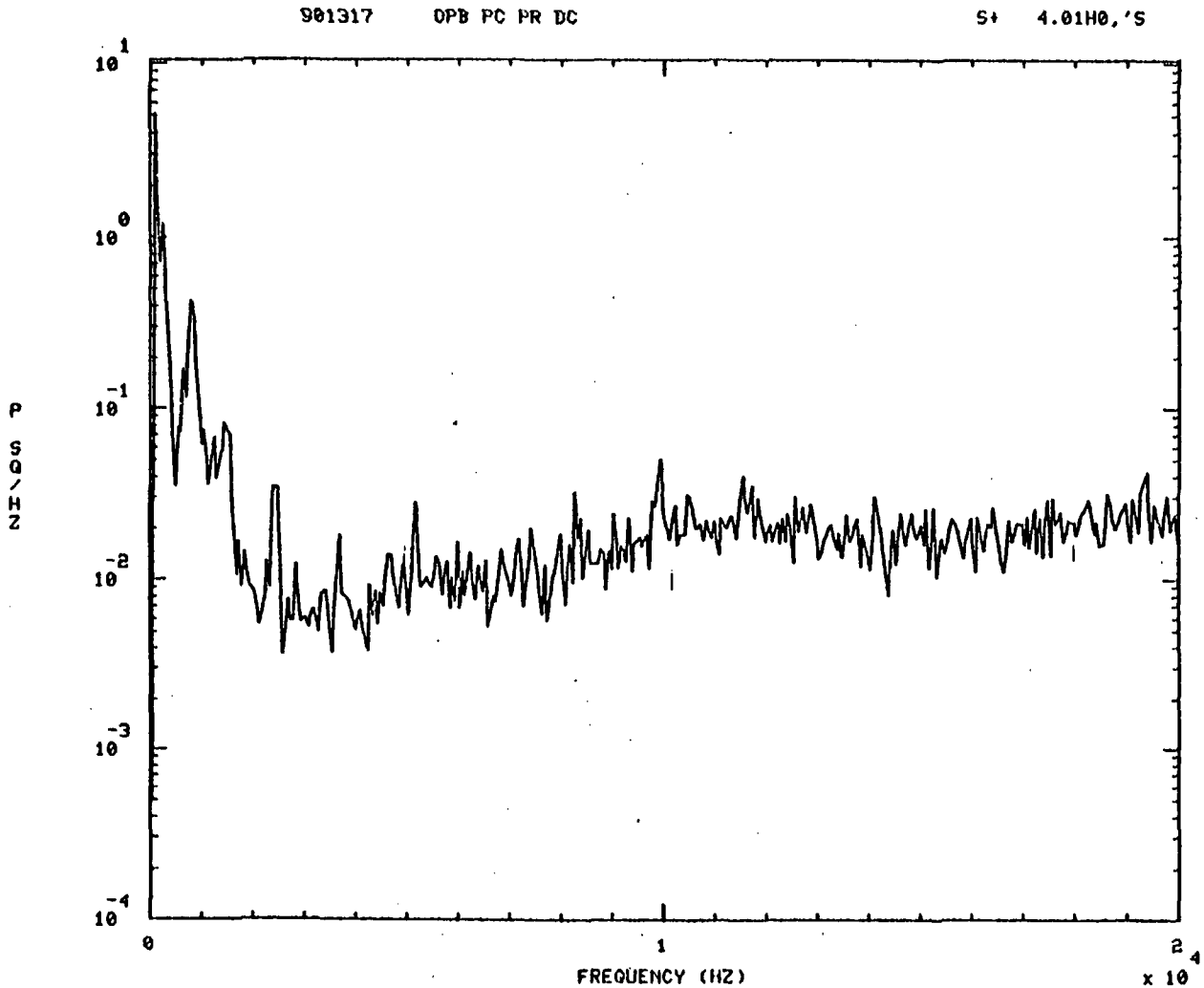
S+ 11.01H0,'S
P SQ/HZ
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
3
4
FREQUENCY (HZ)
x 10^4


901317 PBP DS PR
S+ 4.01H0,'S
P S Q \ H Z
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (H2)
x 10^4


901317 PBP DS PR
S+ 11.01H0,'S
P SQ/HZ
10^{2}
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-3}
0
1
2
FREQUENCY (HZ)
x 10^{4}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P S Q / H Z
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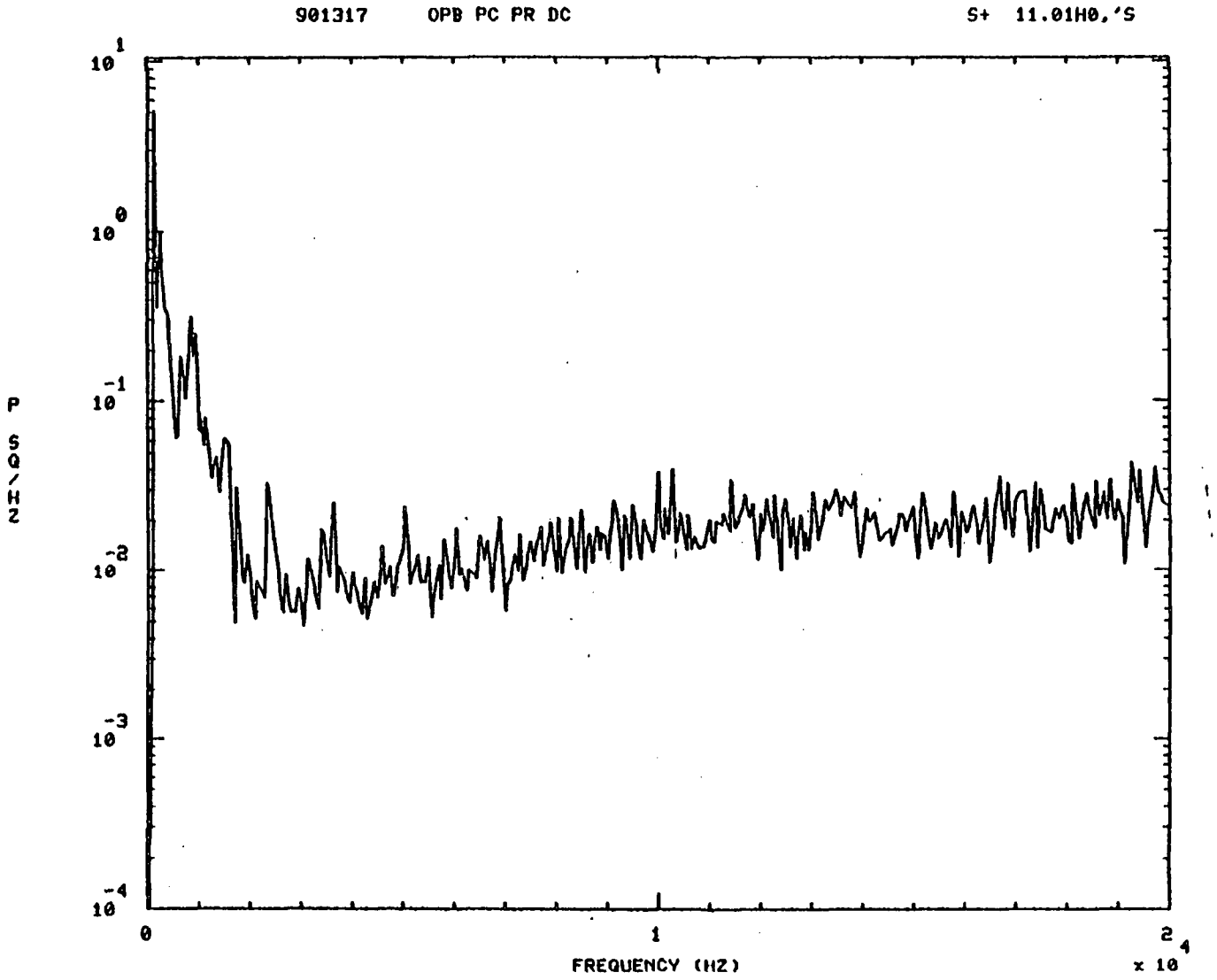
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
FREQUENCY (HZ)
x 10^4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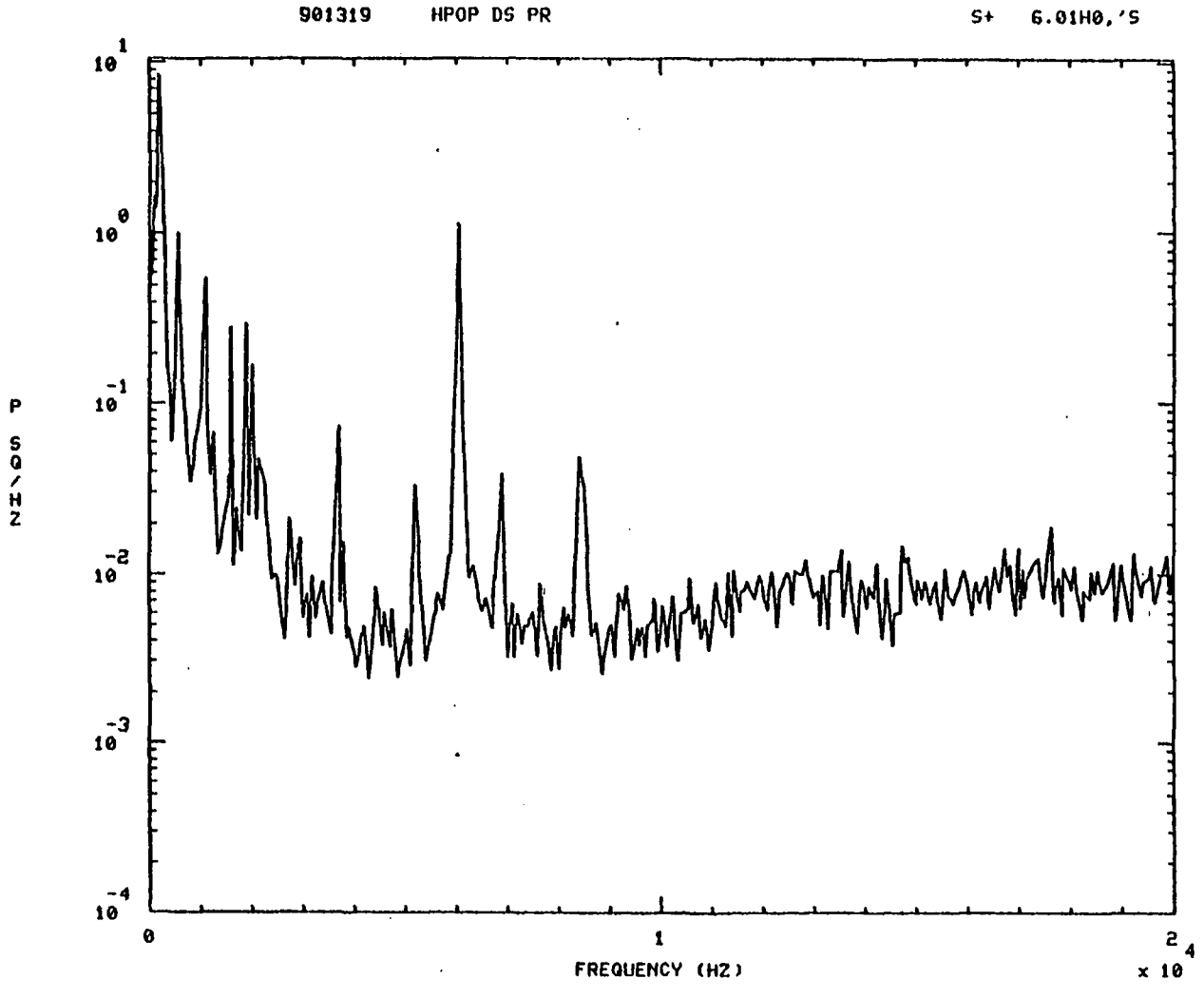
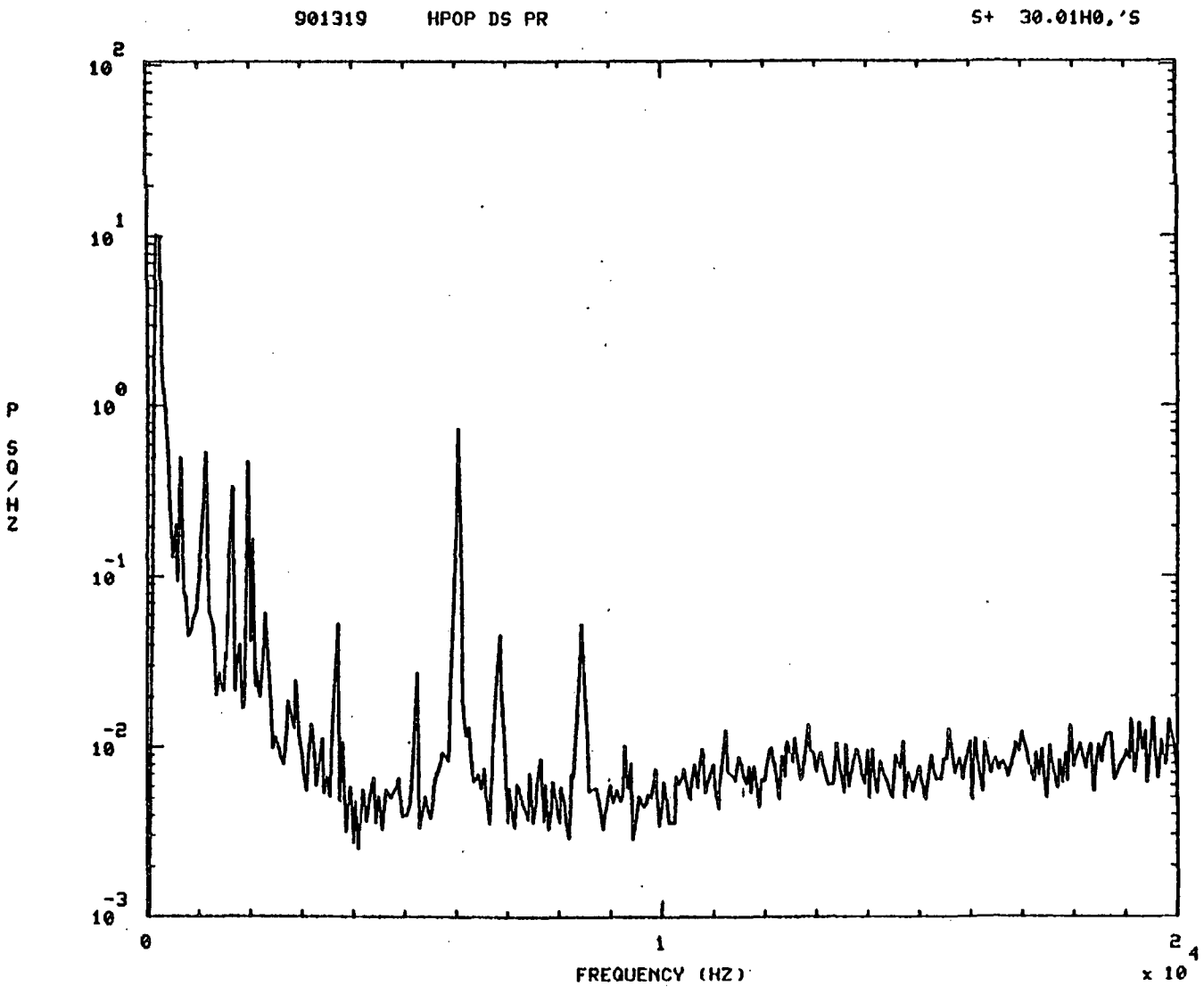
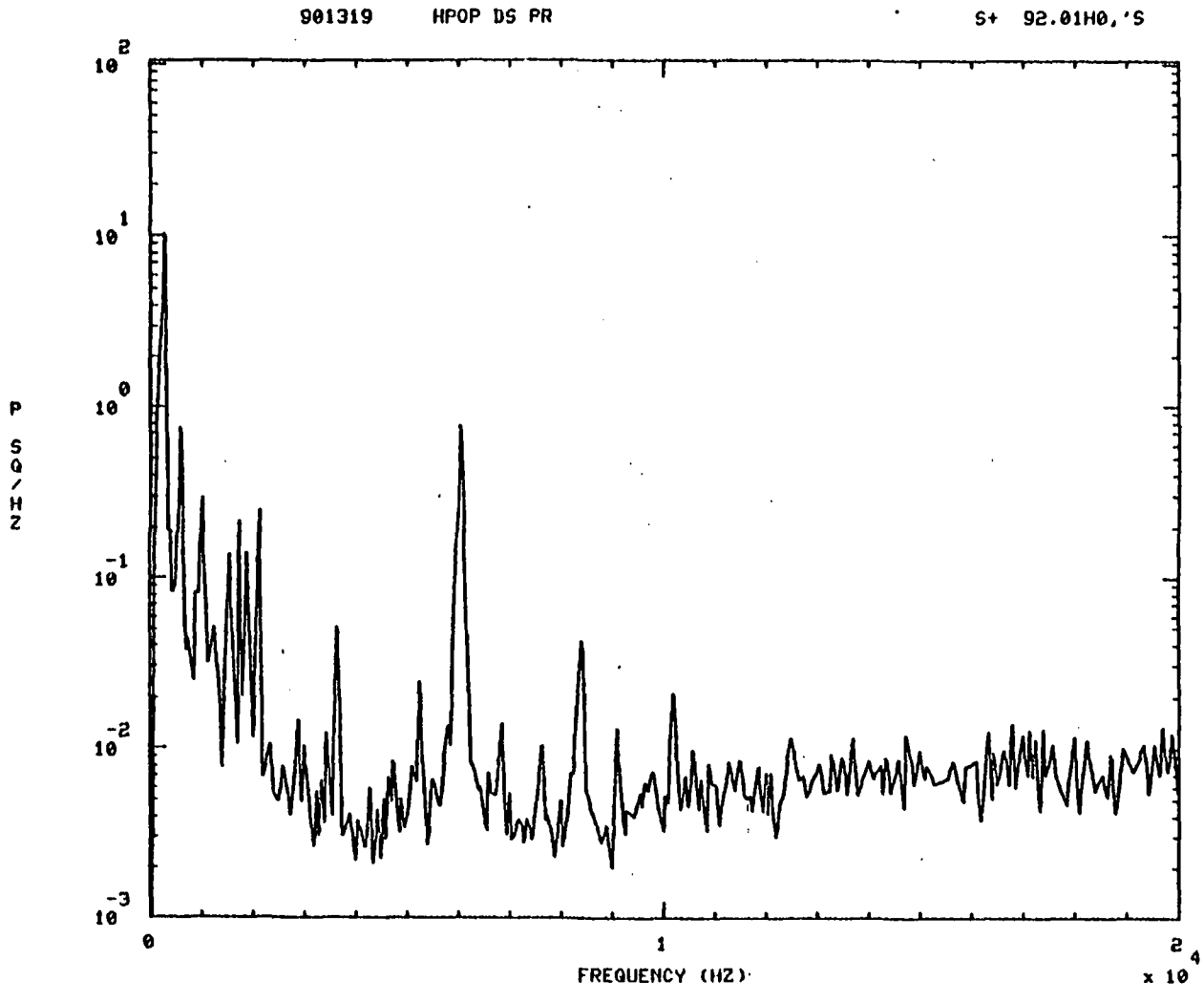
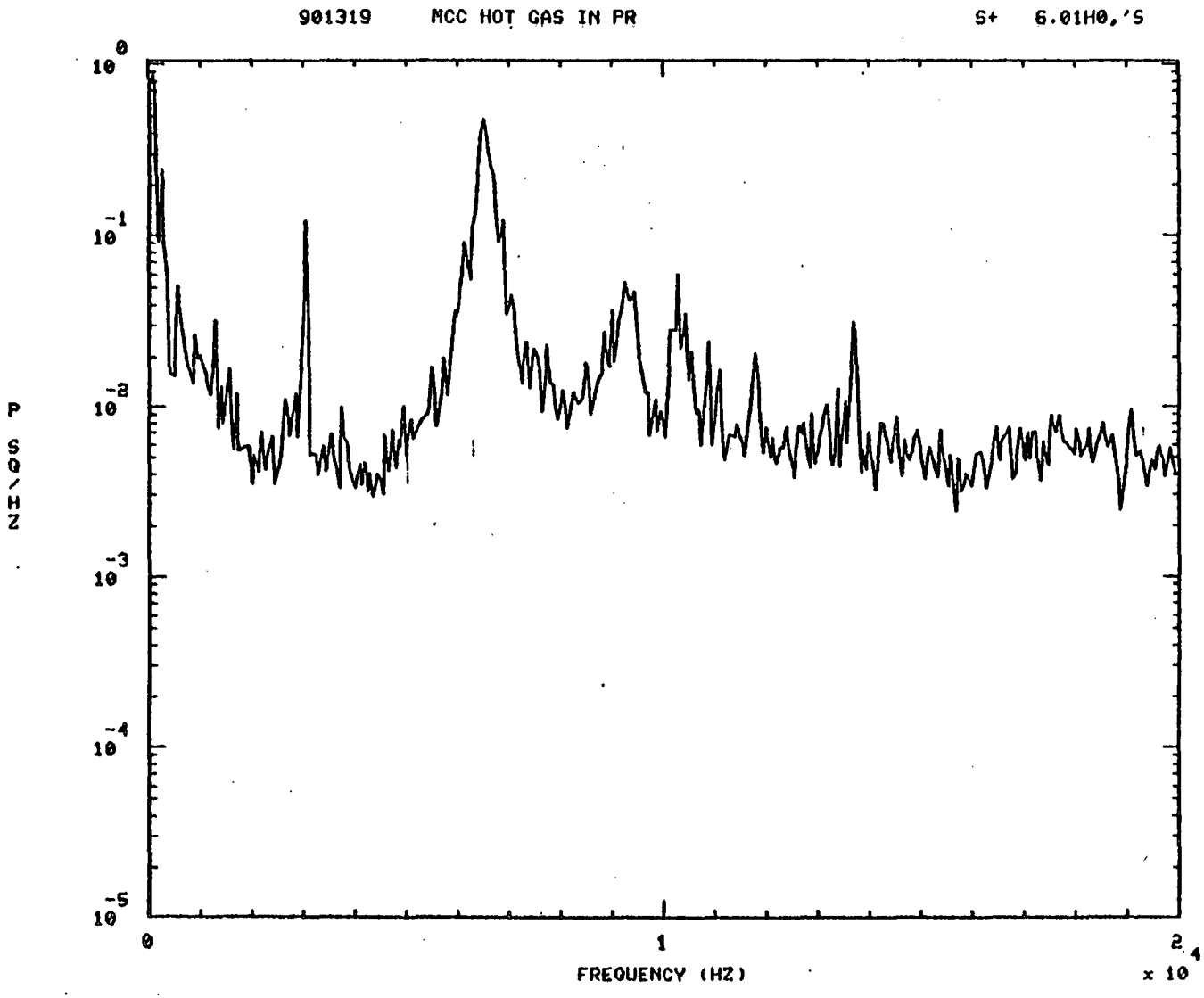
S+ 11.01H0,'S
P SQ/HZ
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
FREQUENCY (HZ)
x 10^4


901319 HPOP DS PR
S+ 6.01H0,'S
P SQ\HZ
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
4
x 10
FREQUENCY (HZ)


901319 HPOP DS PR
S+ 30.01H0,'S
P SQ/HZ
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4


901319 HPOP DS PR
S+ 92.01H0,'S
P SQ/HZ
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4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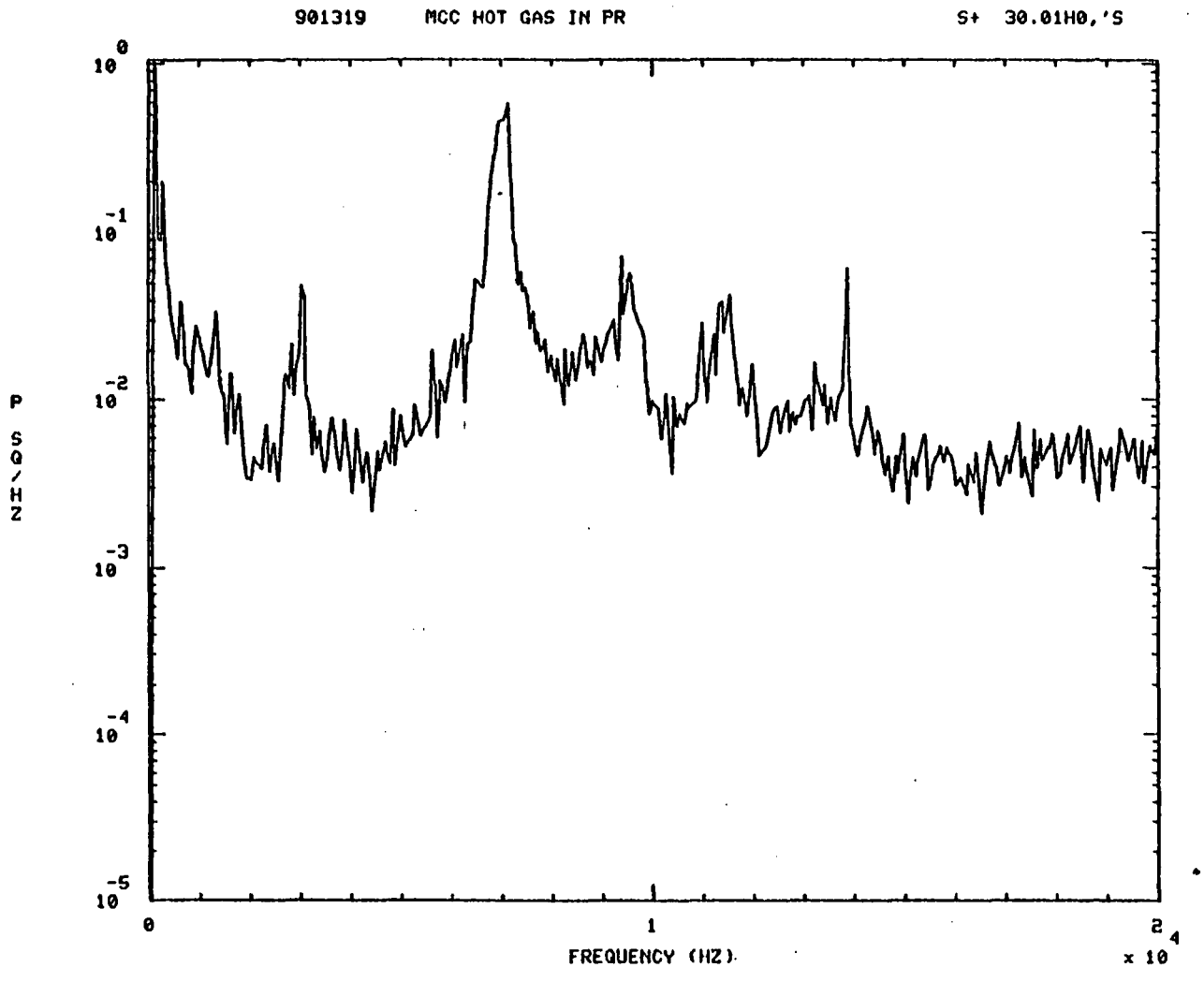
S+ 6.01H0,'S
P SQ/HZ
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
FREQUENCY (HZ)
x 10^4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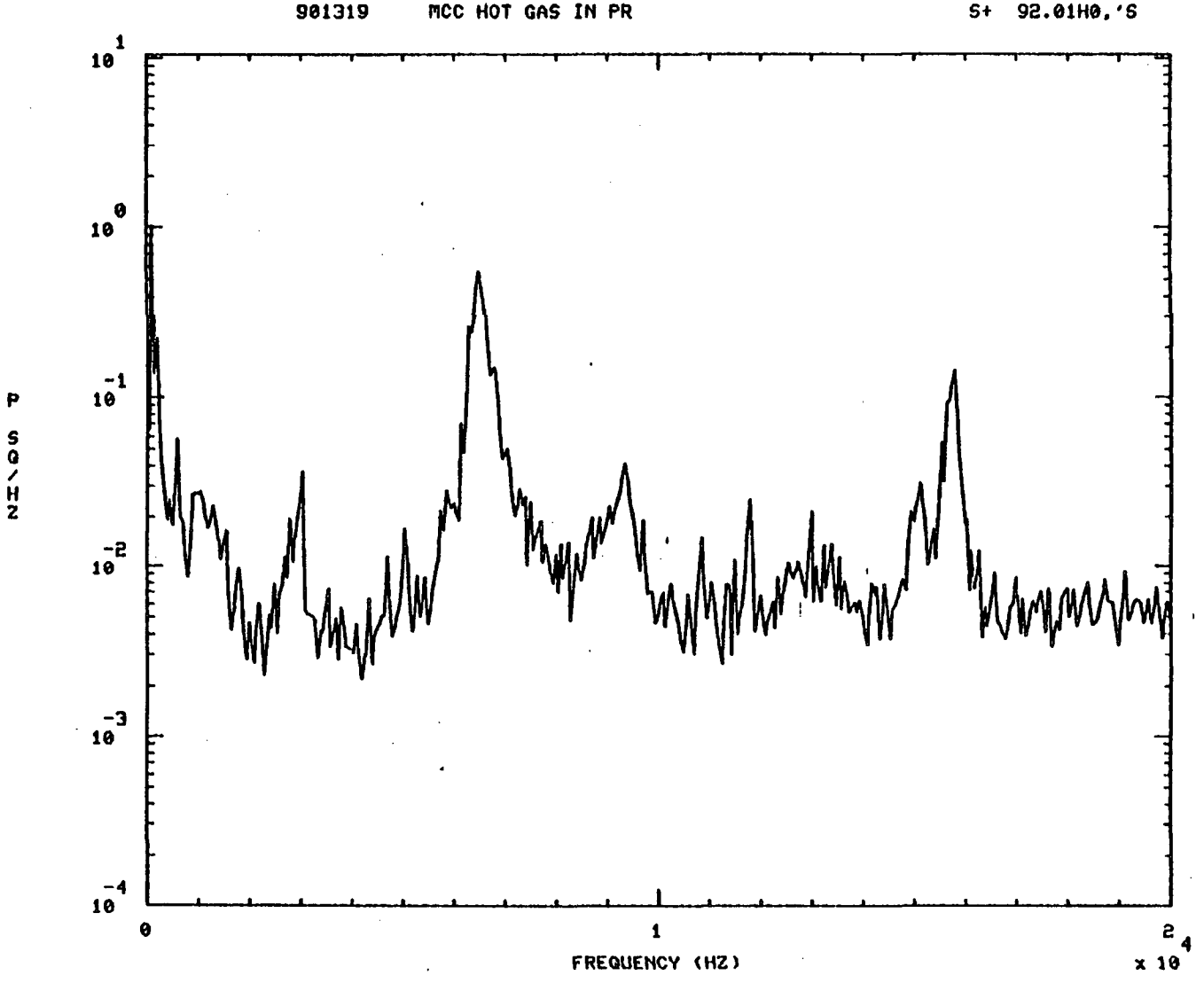
S+ 30.01H0,'S
P S Q/HZ
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
FREQUENCY (HZ)
x 10^4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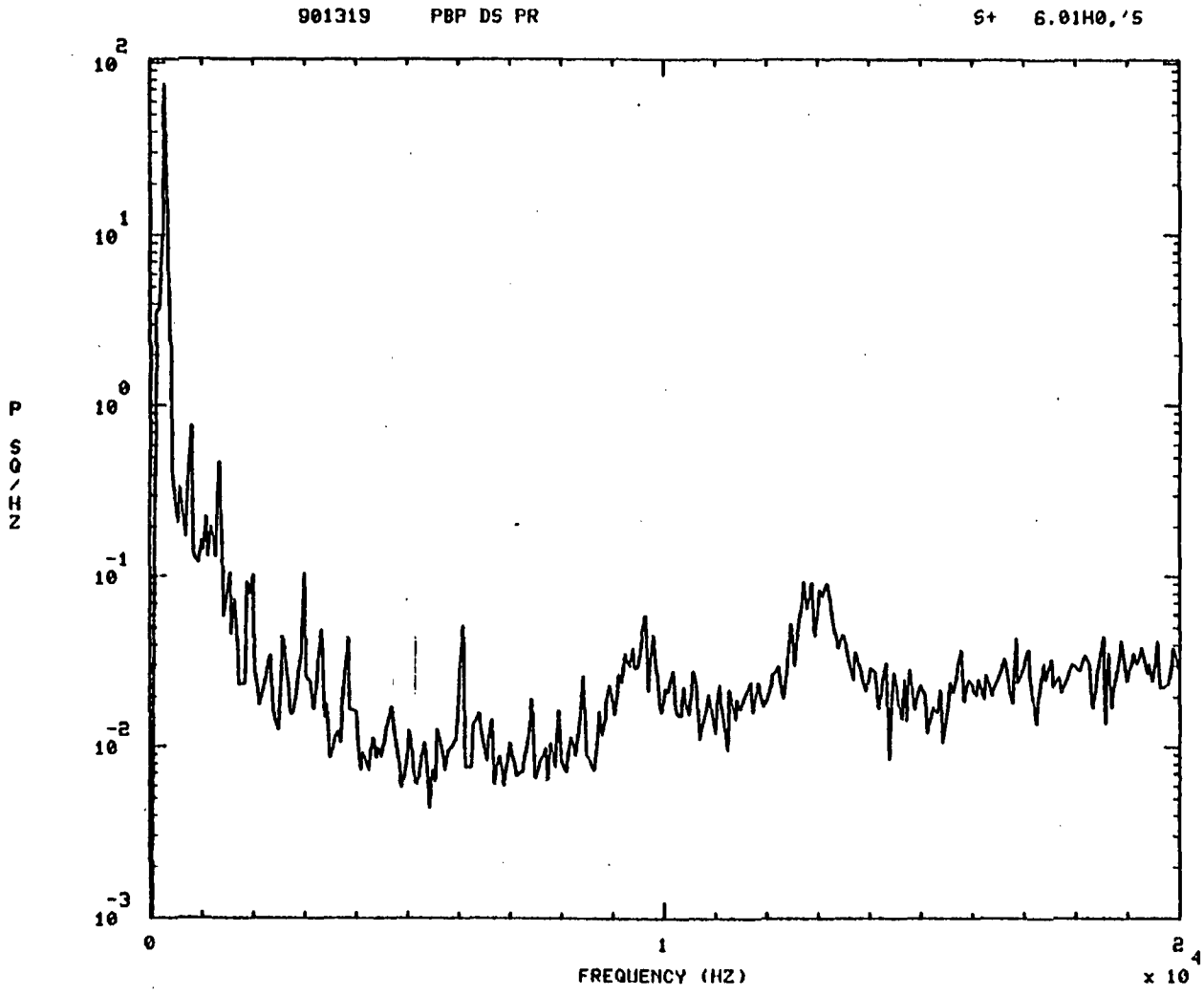
S+ 92.01H0,'S
P SQ\HZ
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
FREQUENCY (HZ)
x 10^4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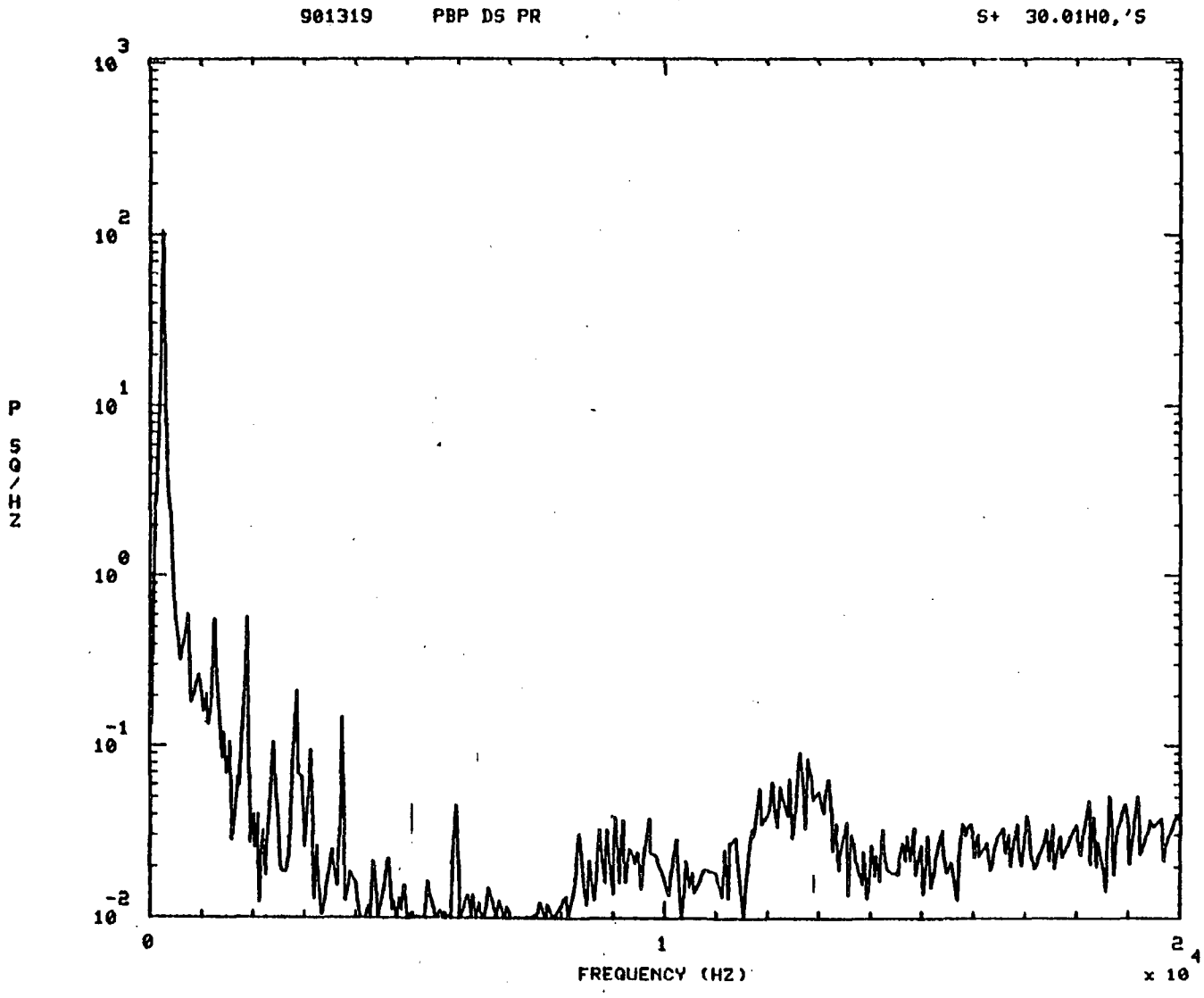
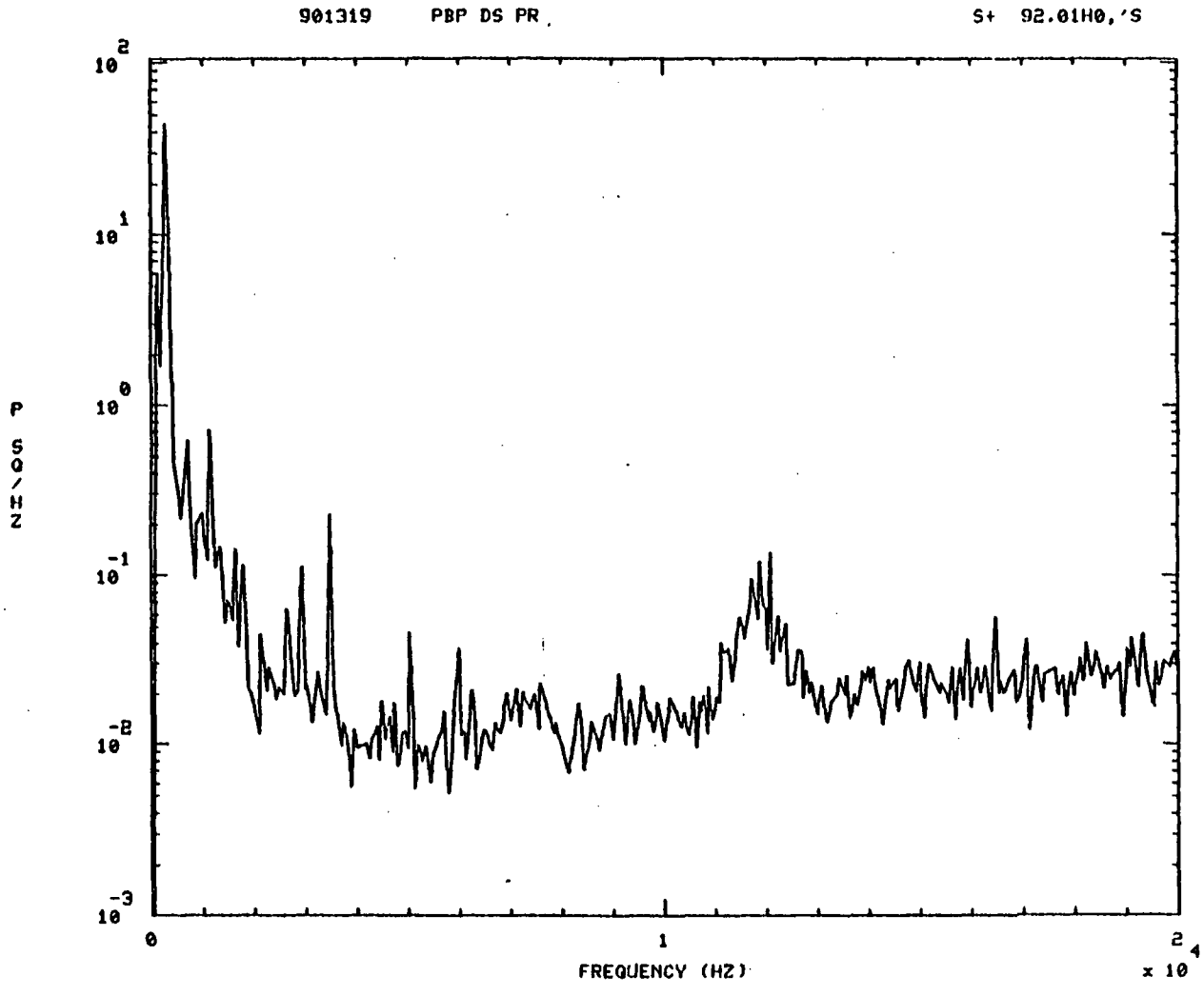
S+ 6.01H0,'5
P
S
Q
\
H
Z
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4


901319 PBP DS PR
S+ 30.01H0,'S
P SQ\HZ
10^3
10^2
10^1
10^0
10^-1
10^-2
0
1
2
4
x 10
FREQUENCY (HZ)

4-7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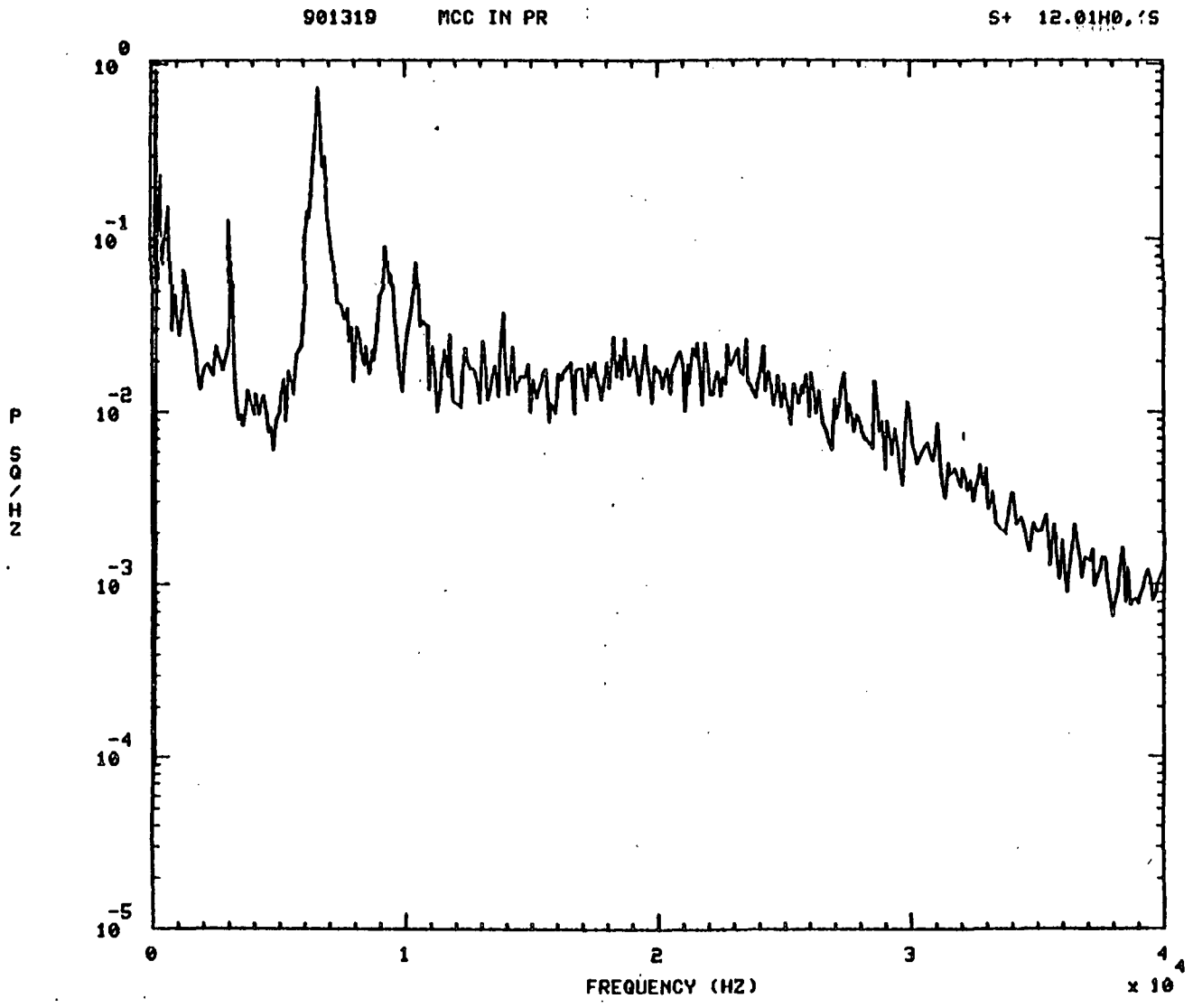
S+ 92.01H0,'S
P S Q / H Z
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4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P SQ\HZ
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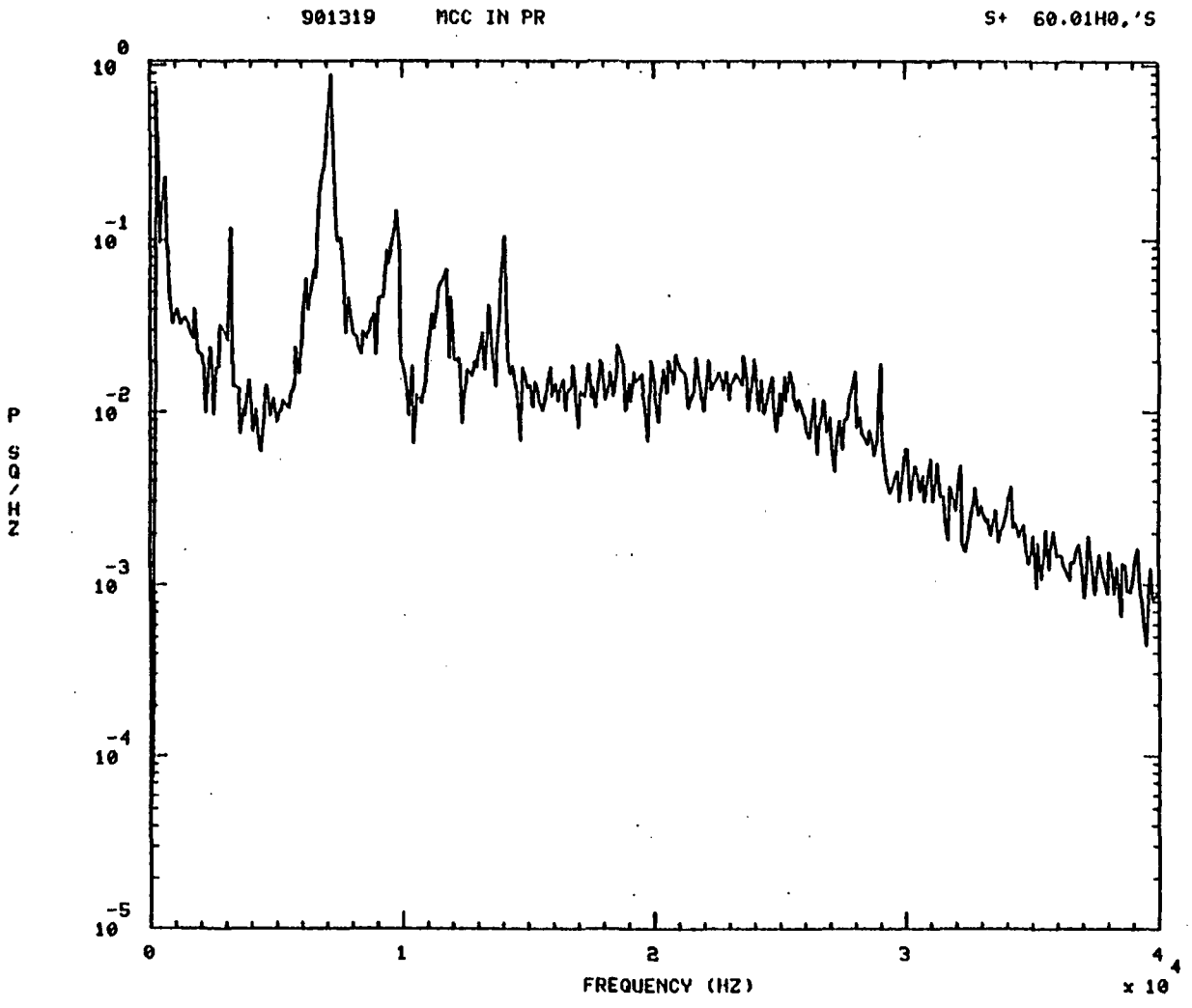
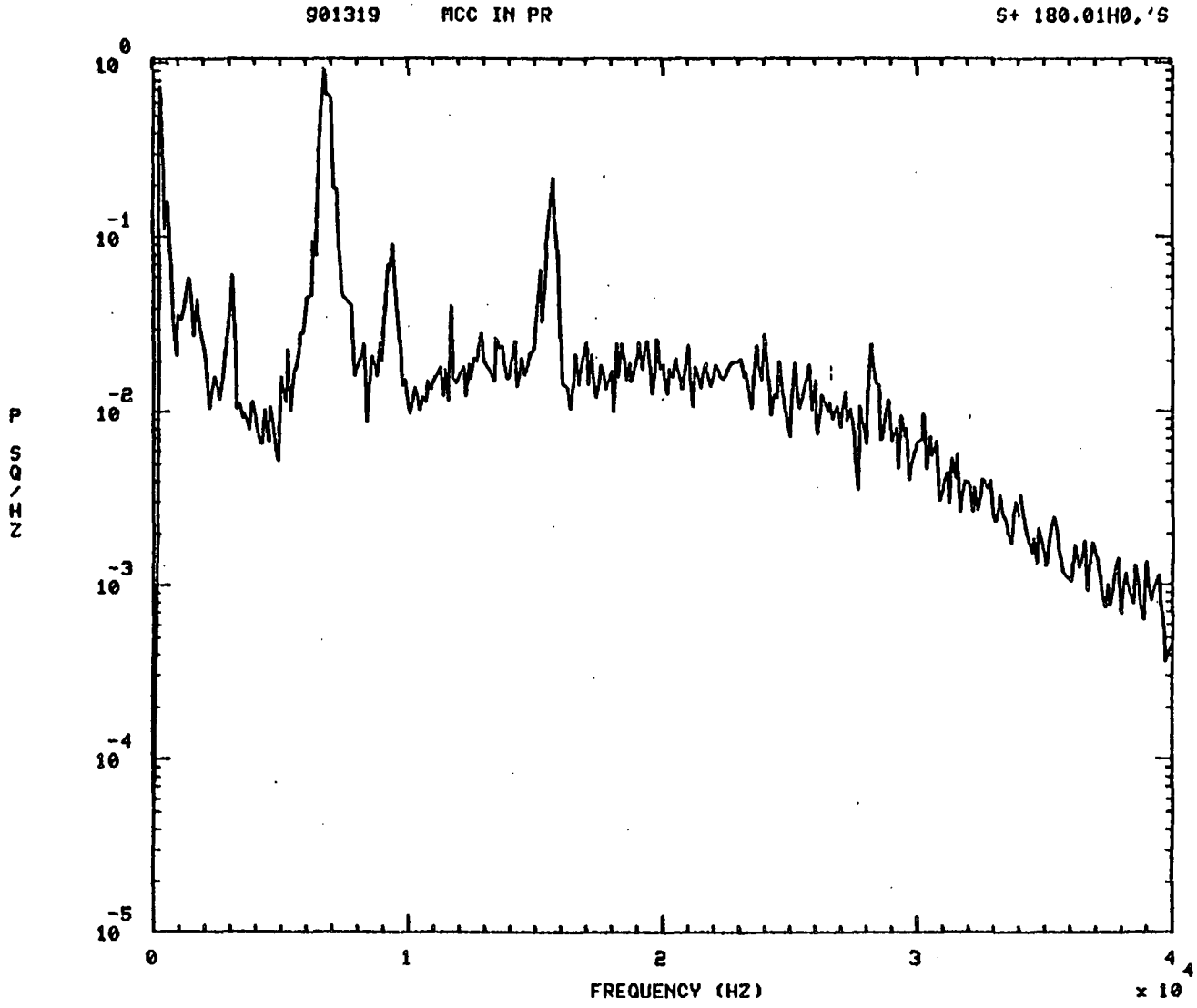
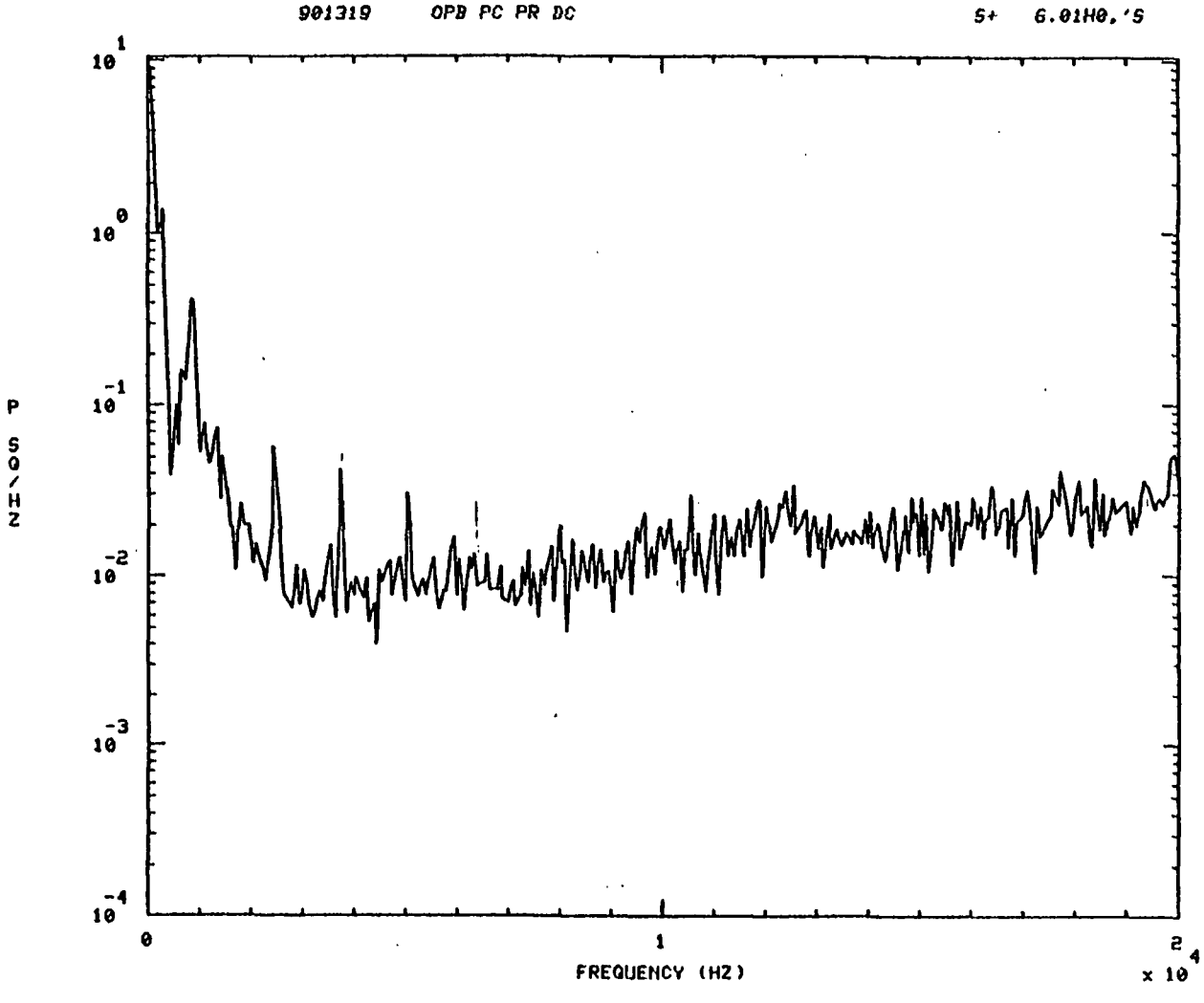
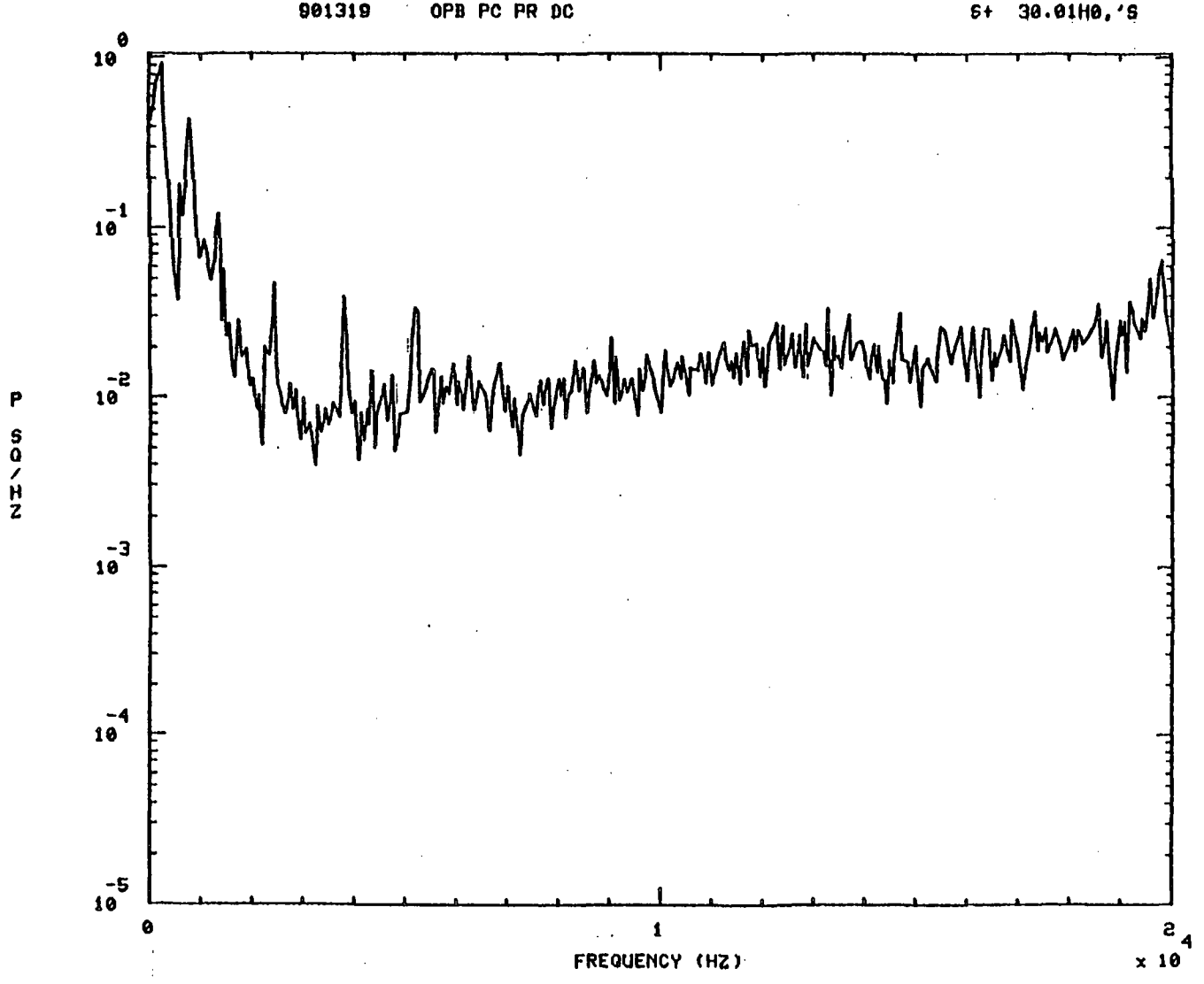
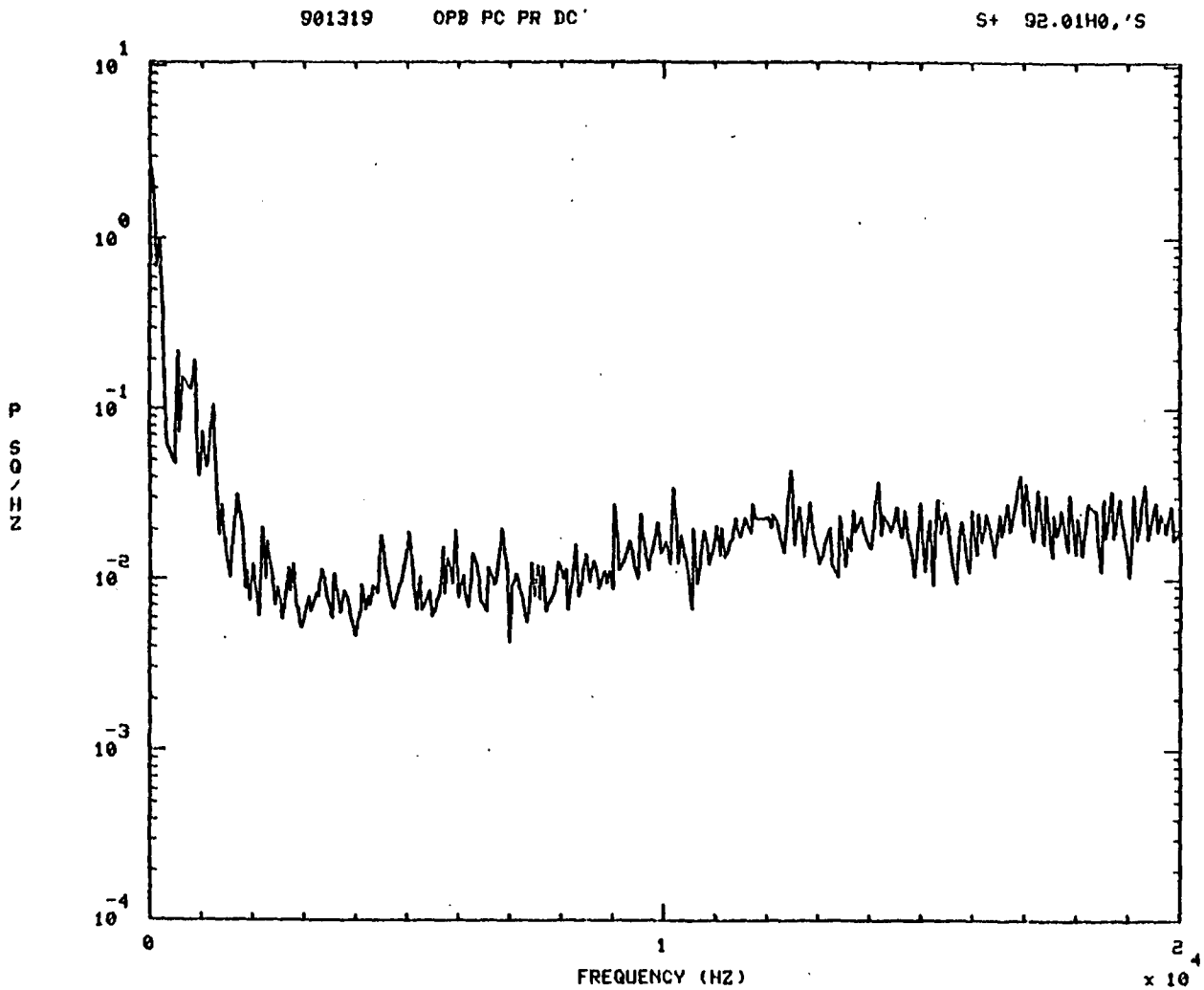
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
3
4
FREQUENCY (HZ)
x 10^4


901319 MCC IN PR
S+ 60.01H0,'S
P
S
Q
/
H
Z
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
3
4
FREQUENCY (HZ)
x 10^4


901319 MCC IN PR
S+ 180.01H0,'S
P S Q \ H Z
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
3
4
FREQUENCY (HZ)
x 10^4


901319 OPB PC PR DC
5+ 6.01H0.'S
P SQ\HZ
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
FREQUENCY (HZ)
x 10^4


901319 OPB PC PR DC
6+ 30.01H0,'S
P SQ/HZ
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
FREQUENCY (HZ)
x 10^4


901319 OPB PC PR DC'
S+ 92.01H0,'S
P S0\HZ
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10^0
10^-1
10^-2
10^-3
10^-4
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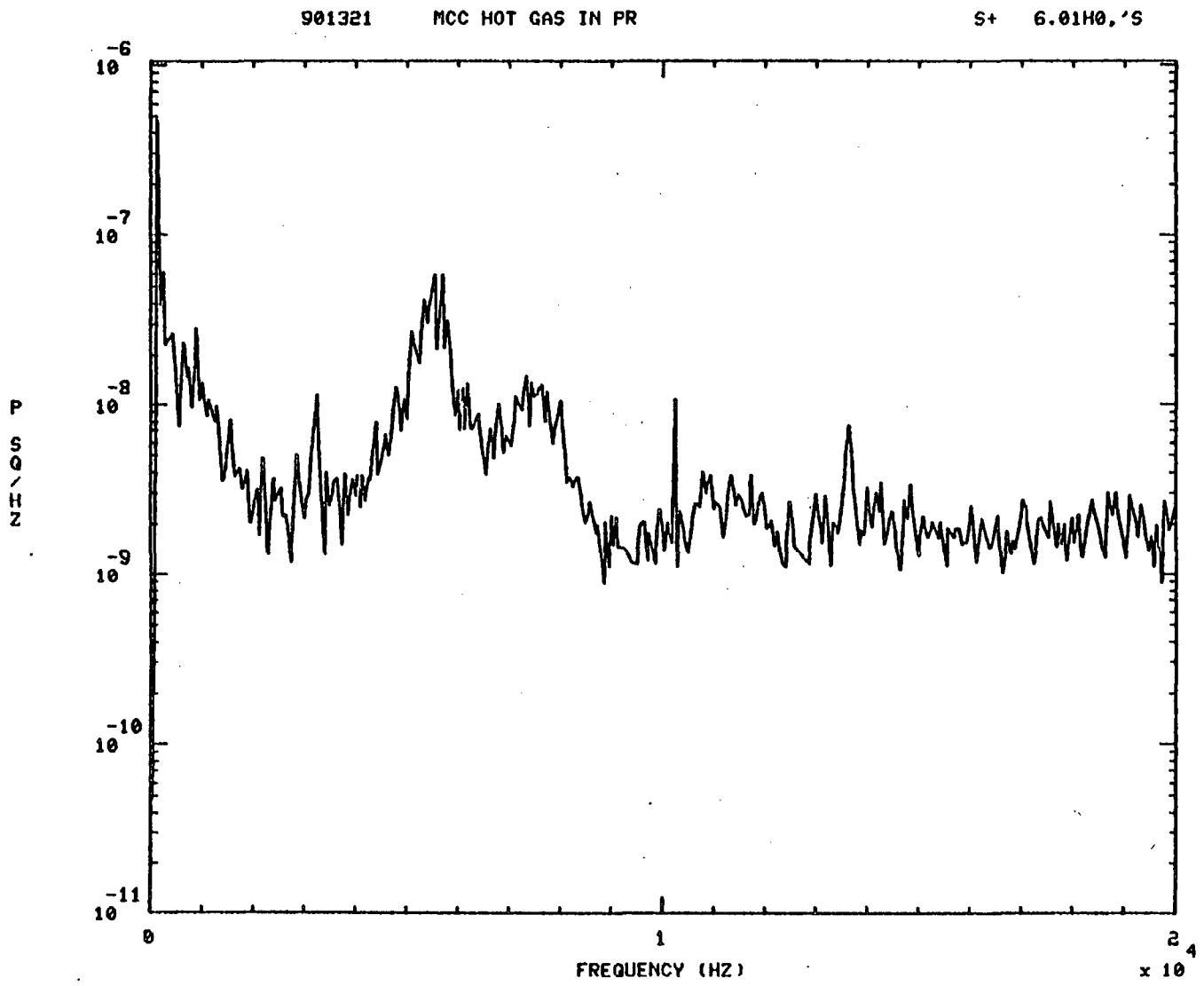
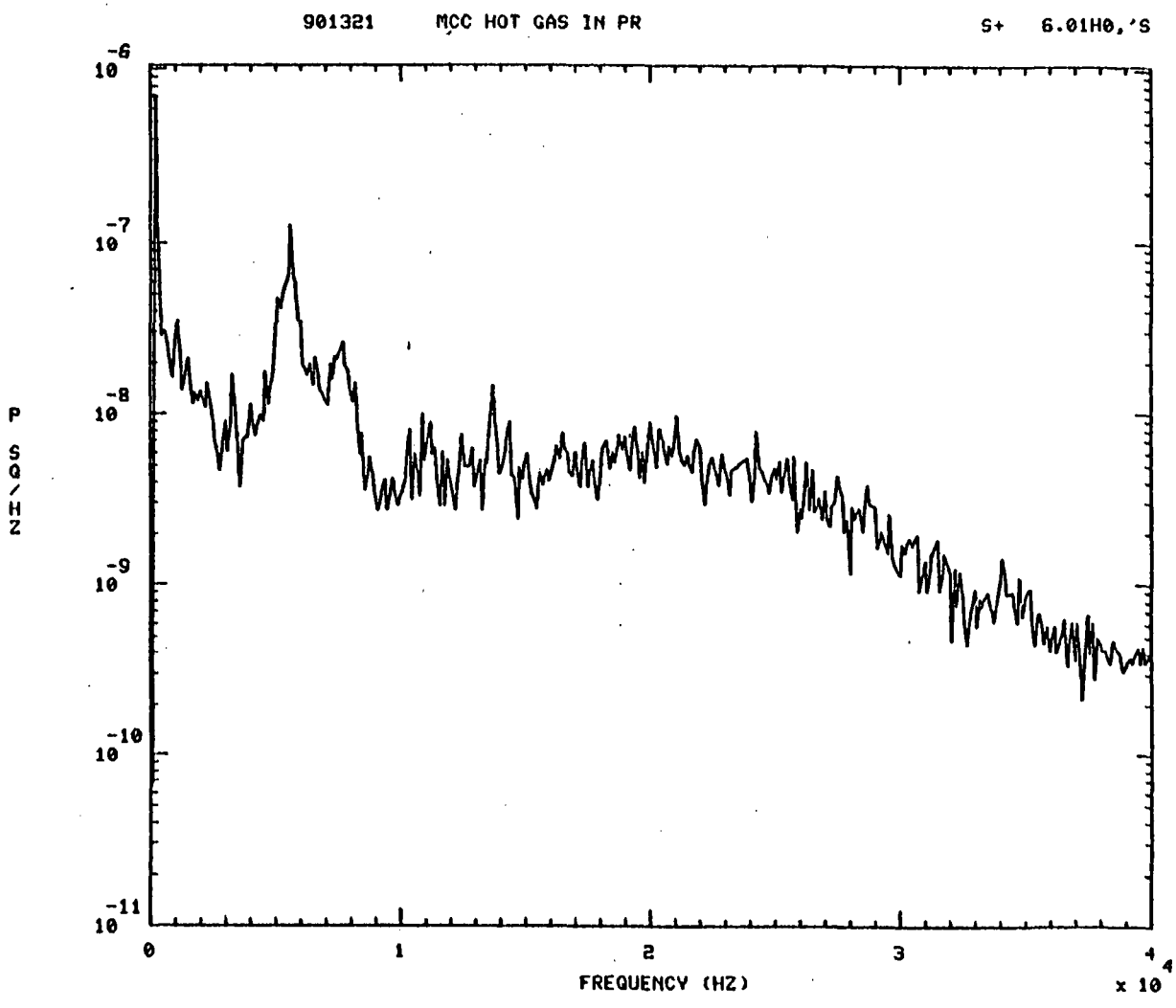
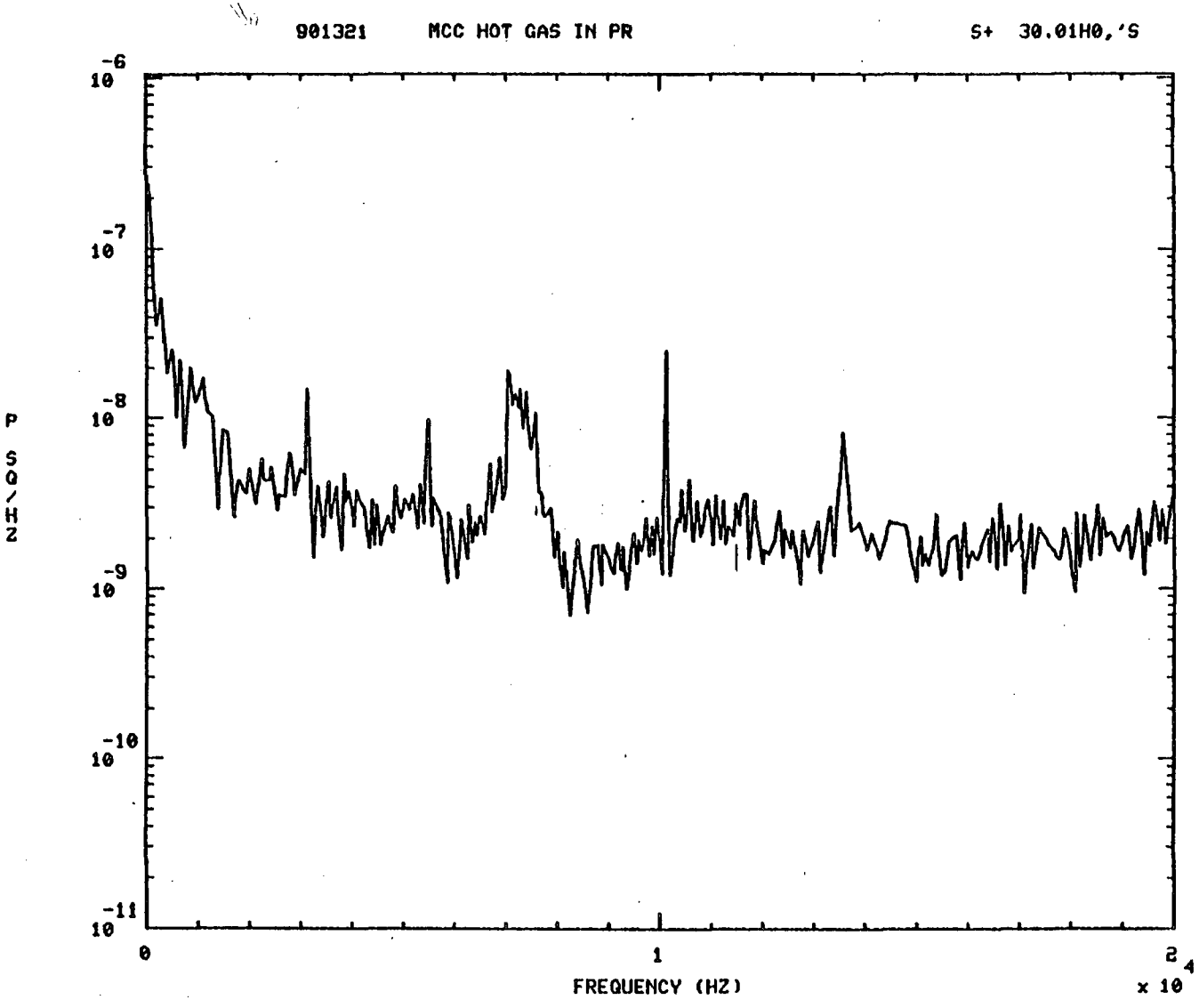
1
2
FREQUENCY (HZ)
x 10^4


901321 MCC HOT GAS IN PR
S+ 6.01H0,'S
P SQ\HZ
10^-6
10^-7
10^-8
10^-9
10^-10
10^-11
0
1
2
FREQUENCY (HZ)
x 10^4


901321 MCC HOT GAS IN PR
S+ 6.01H0,'S
P SQ\HZ
10^-6
10^-7
10^-8
10^-9
10^-10
10^-11
0
1
2
3
4
FREQUENCY (HZ)
x 10^4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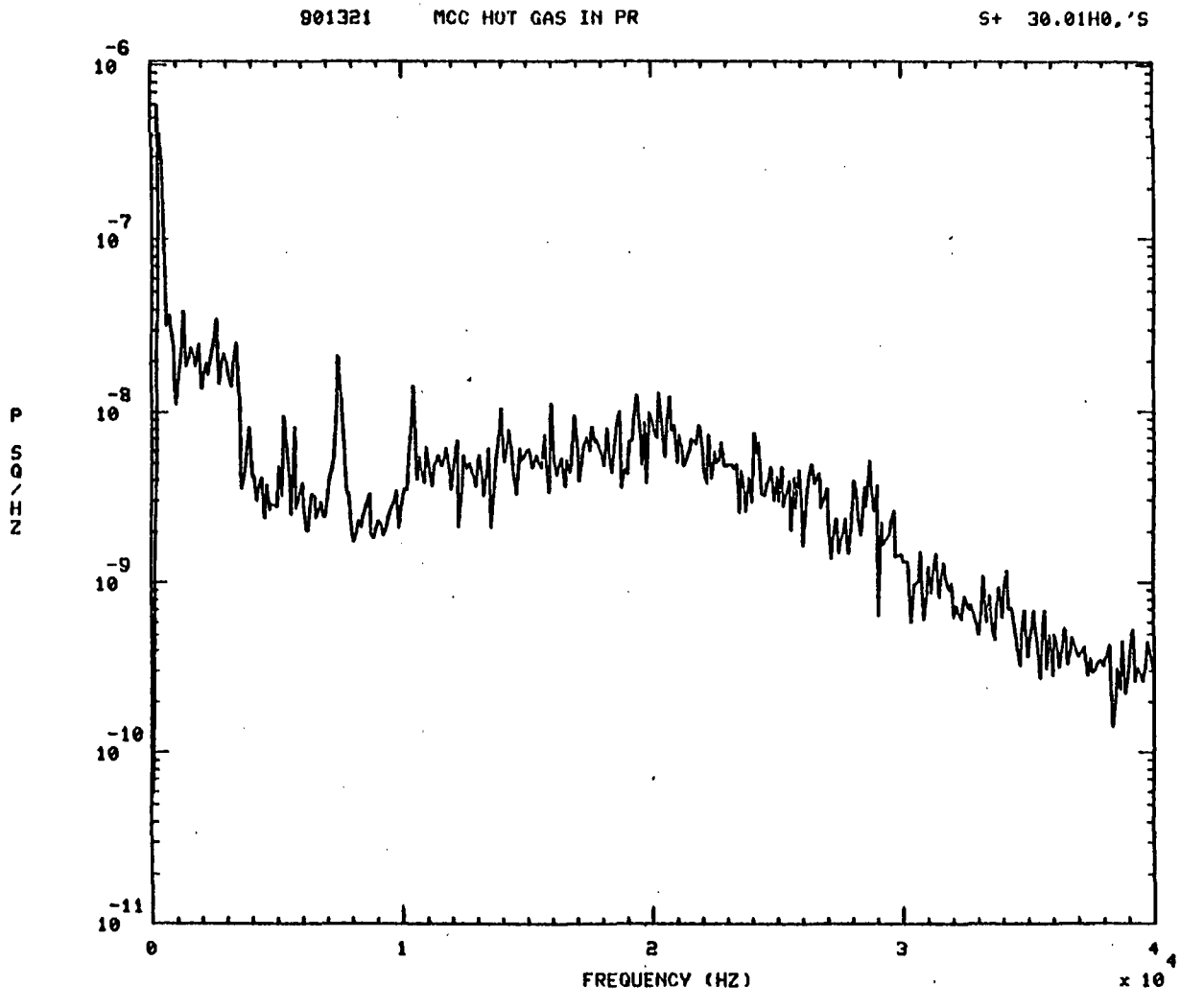
S+ 30.01H0,'S
P SQ\HZ
10^-6
10^-7
10^-8
10^-9
10^-10
10^-11
0
1
2
FREQUENCY (HZ)
x 10^4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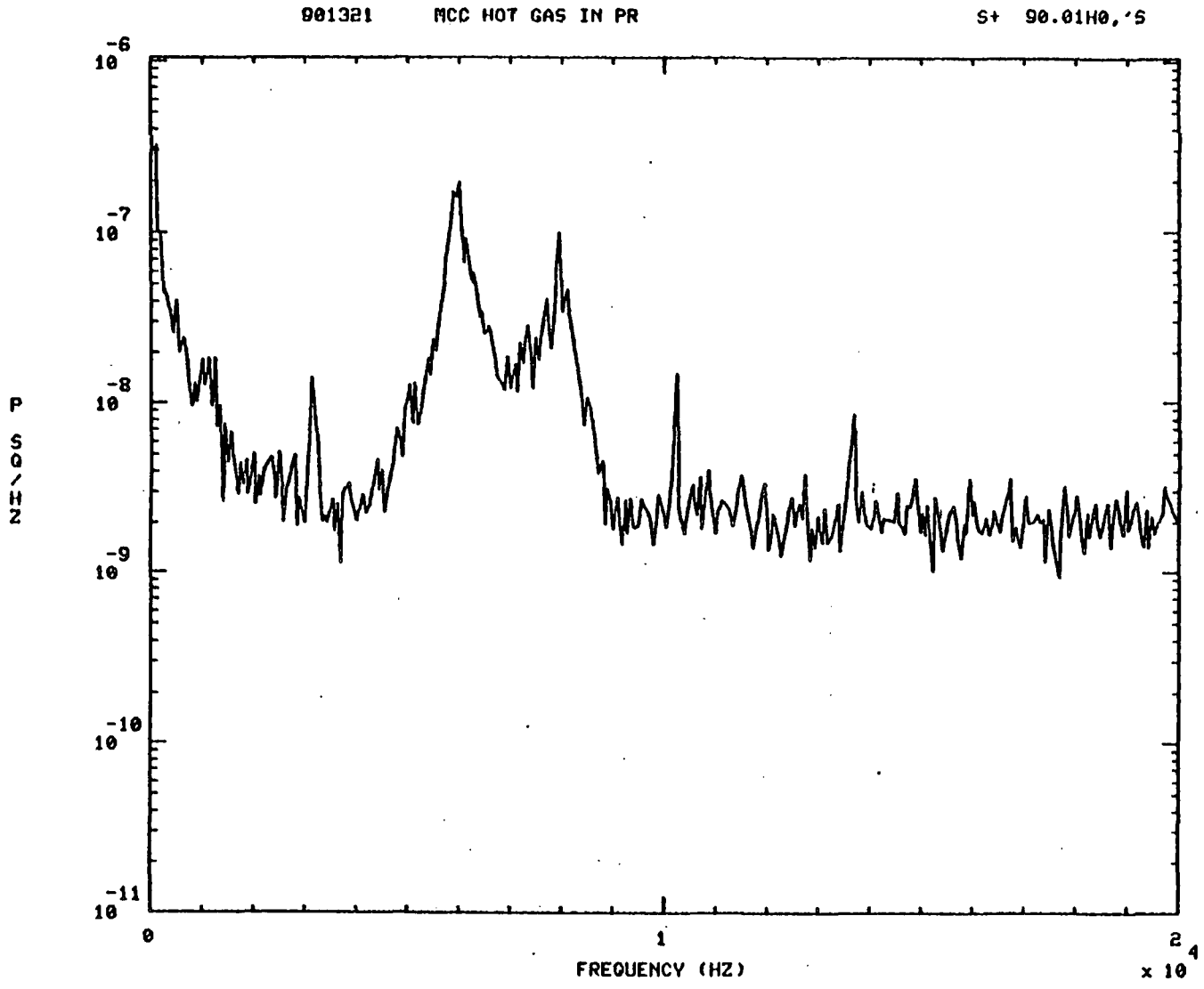
S+ 30.01H0,'S
P S Q \ H Z
10^-6
10^-7
10^-8
10^-9
10^-10
10^-11
0
1
2
3
4
FREQUENCY (HZ)
x 10^4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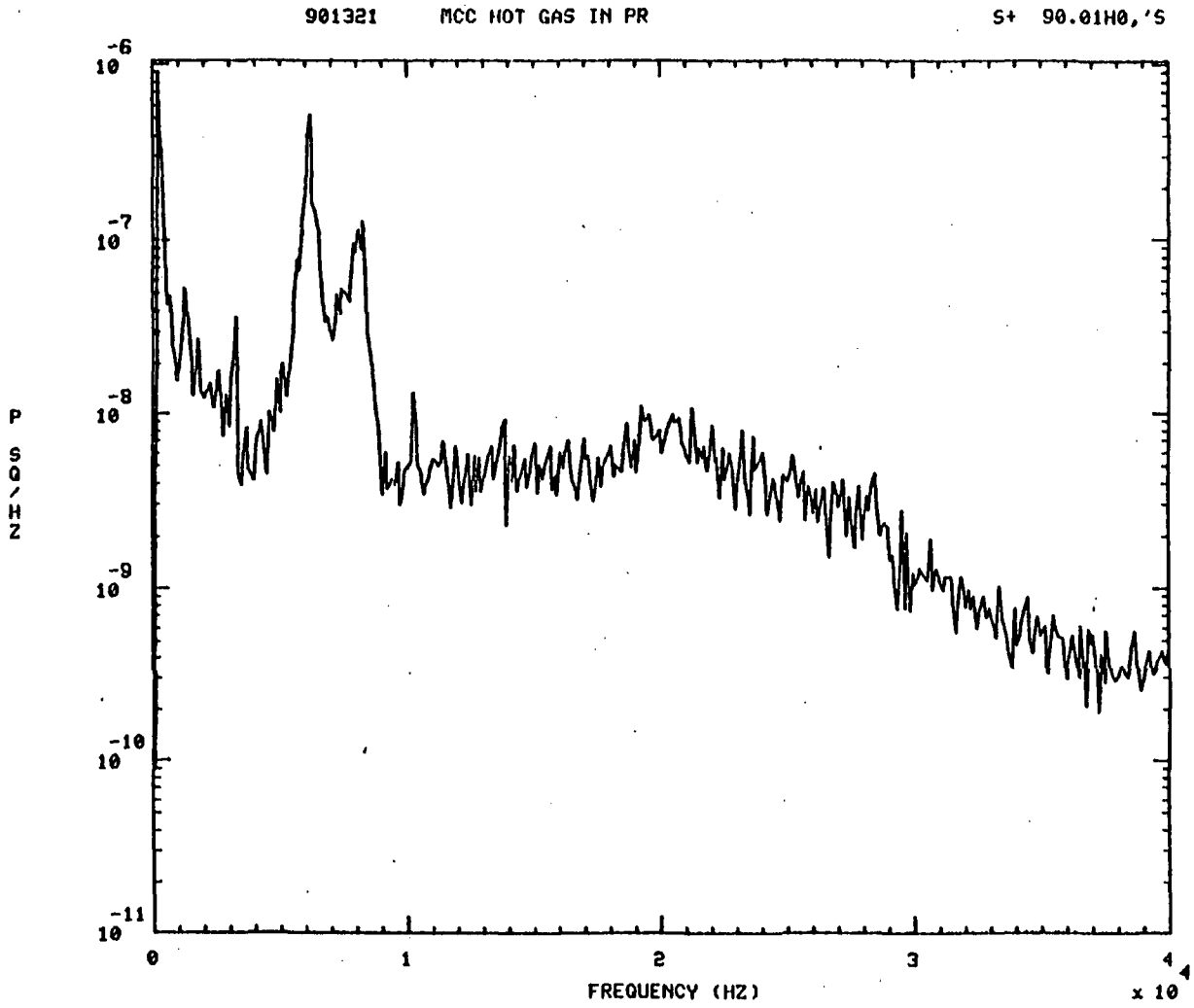
S+ 90.01H0,'S
P SQ/HZ
10^-6
10^-7
10^-8
10^-9
10^-10
10^-11
0
1
2
FREQUENCY (HZ)
x 10^4


901321 MCC HOT GAS IN PR
S+ 90.01H0,'S
P SQ/HZ
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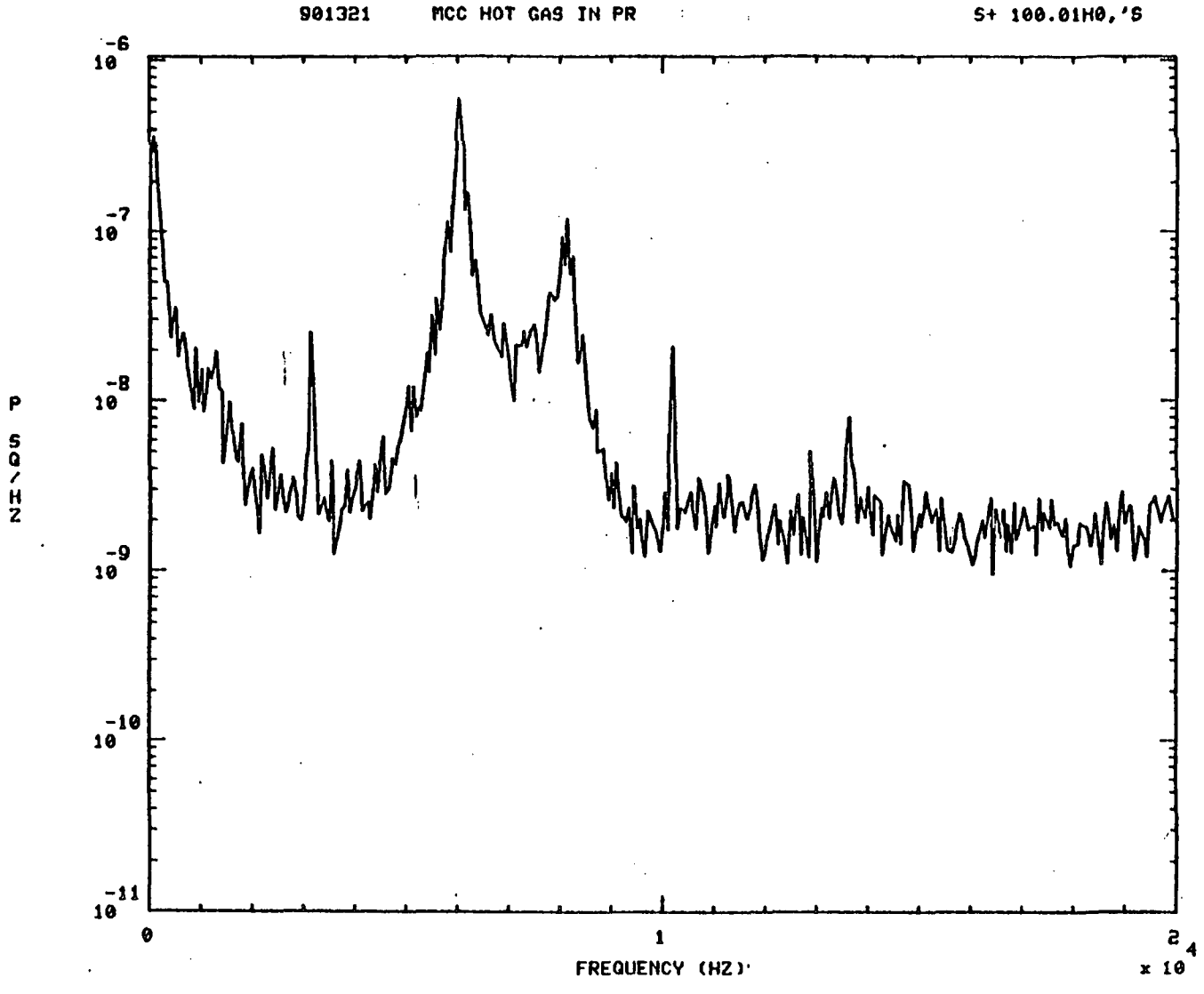
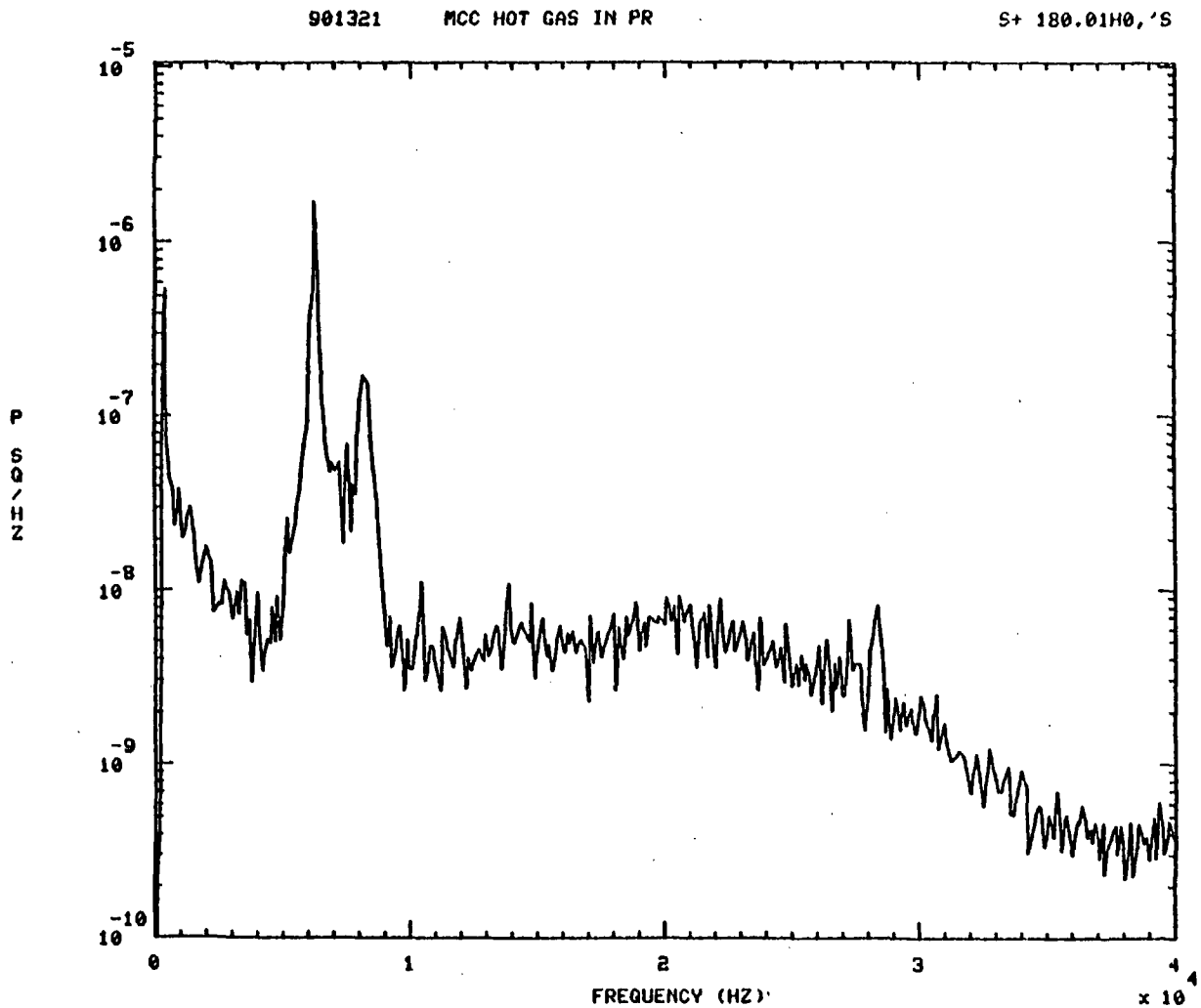
10^-7
10^-8
10^-9
10^-10
10^-11
0
1
2
3
4
FREQUENCY (HZ)
x 10^4


901321 MCC HOT GAS IN PR
S+ 100.01H0,'S
-6
10
-7
10
-8
10
-9
10
-10
10
-11
10
P SQ\HZ
0
1
2
4
x 10
FREQUENCY (HZ)


901321 MCC HOT GAS IN PR
S+ 180.01H0,'S
P SQ/HZ
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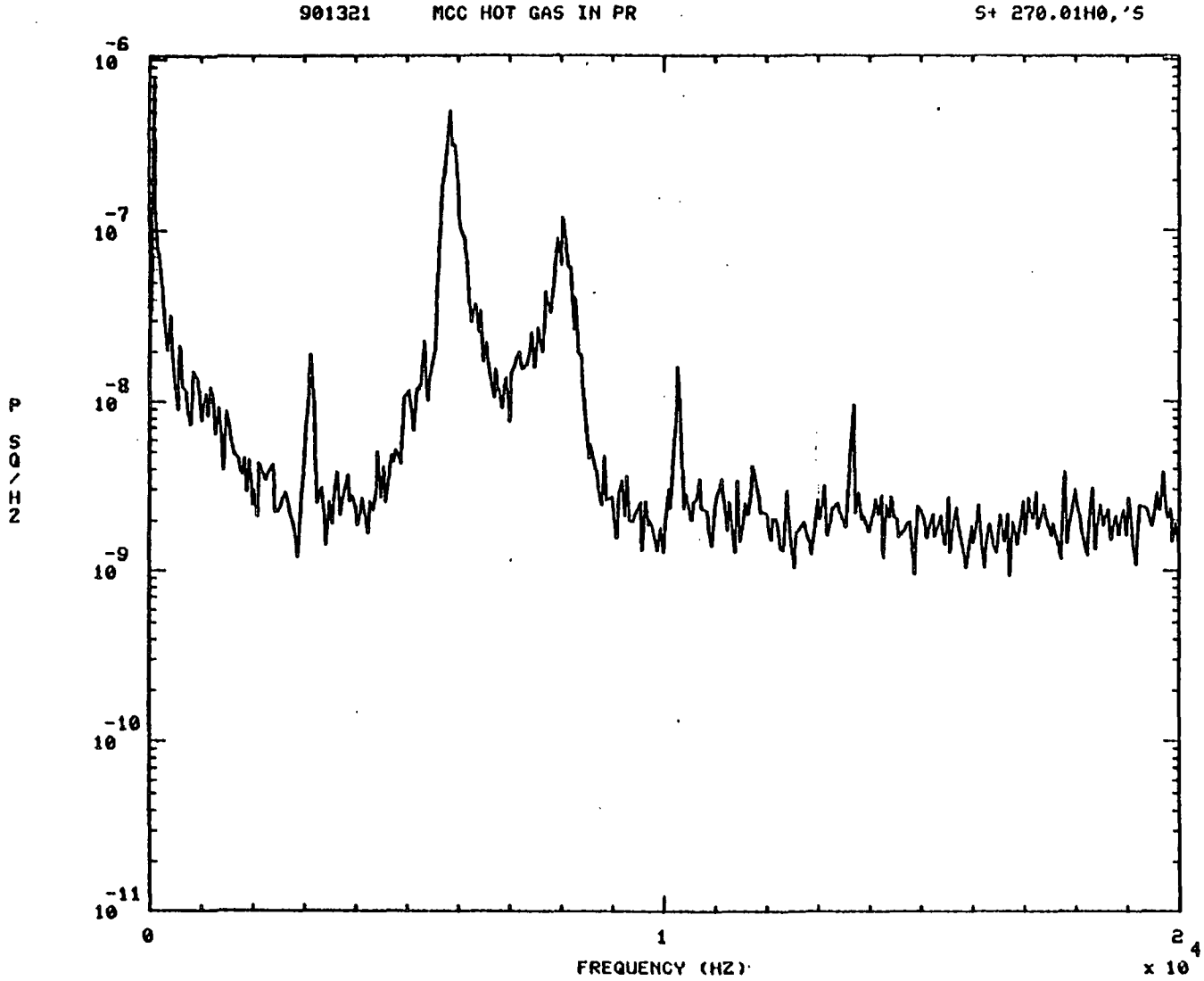
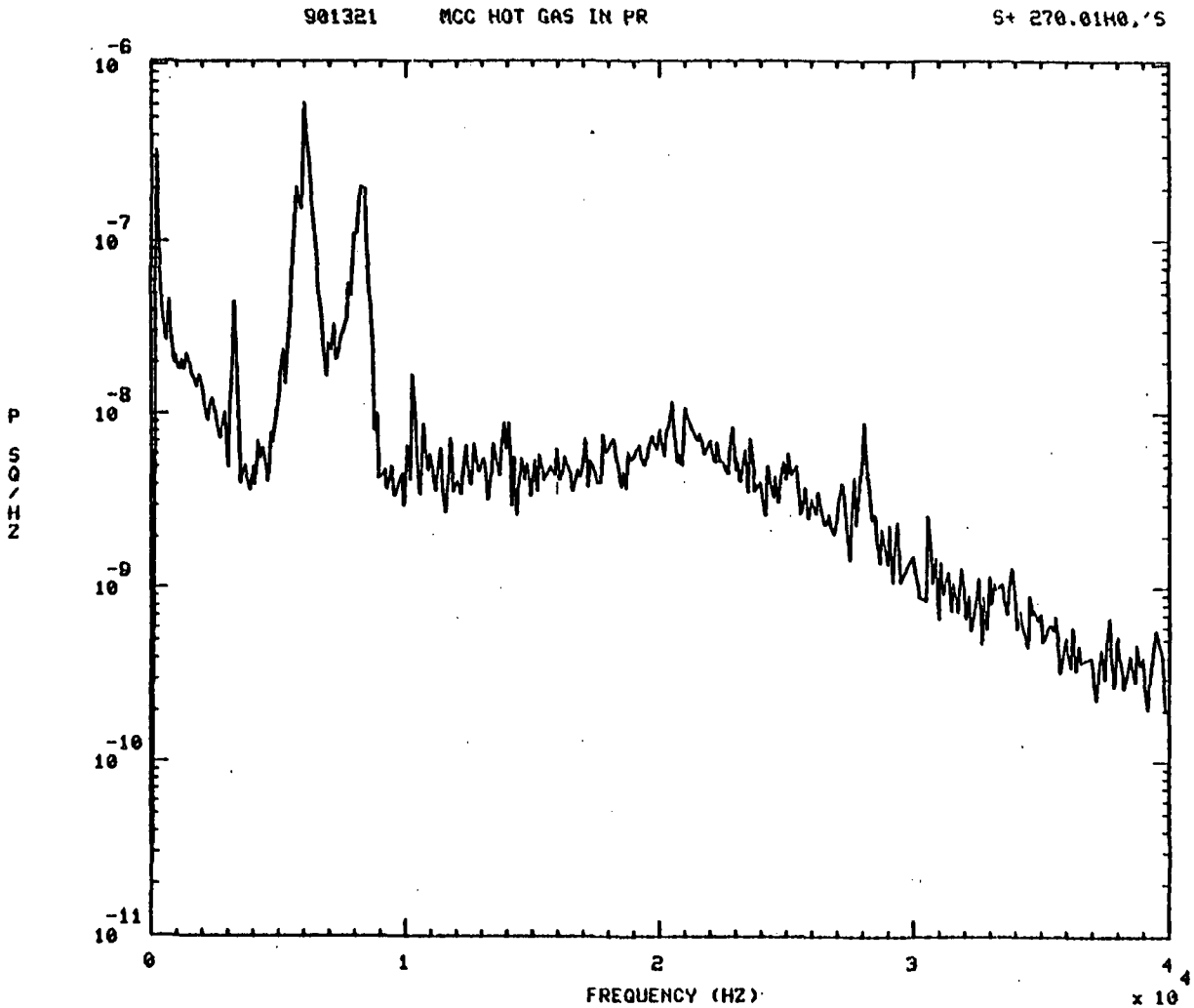
10^-6
10^-7
10^-8
10^-9
10^-10
0
1
2
3
4
FREQUENCY (HZ)
x 10^4


901321 MCC HOT GAS IN PR
S+ 270.01H0,'S
P S Q / H 2
10^-6
10^-7
10^-8
10^-9
10^-10
10^-11
0
1
2
4
x 10
FREQUENCY (HZ)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S+ 270.01H0,'S
P S Q / H Z
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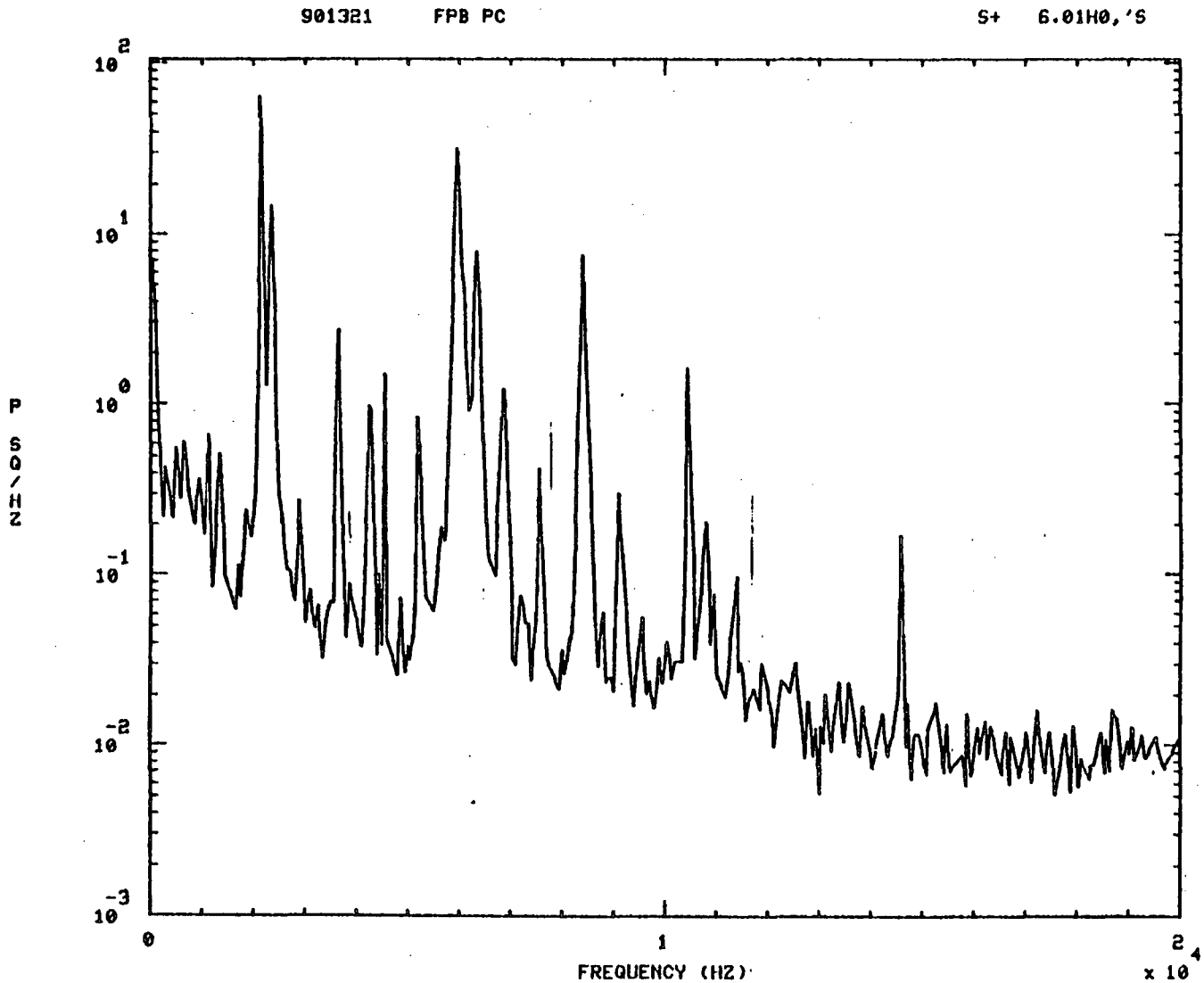
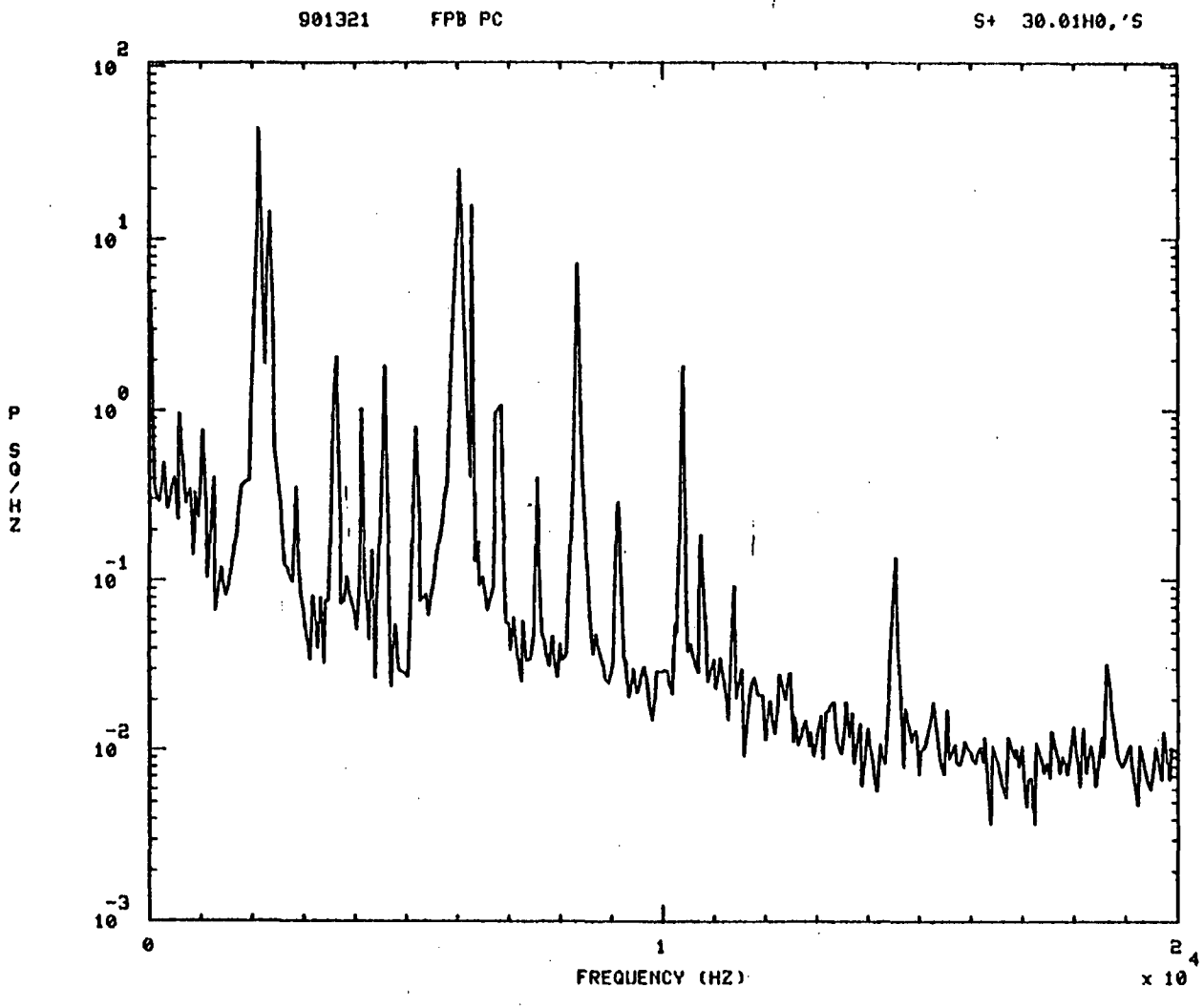
10^-7
10^-8
10^-9
10^-10
10^-11
0
1
2
3
4
FREQUENCY (HZ)
x 10^4


901321 FPB PC
S+ 6.01H0,'S
P S Q / H Z
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4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S+ 30.01H0,'S
P S Q / H Z
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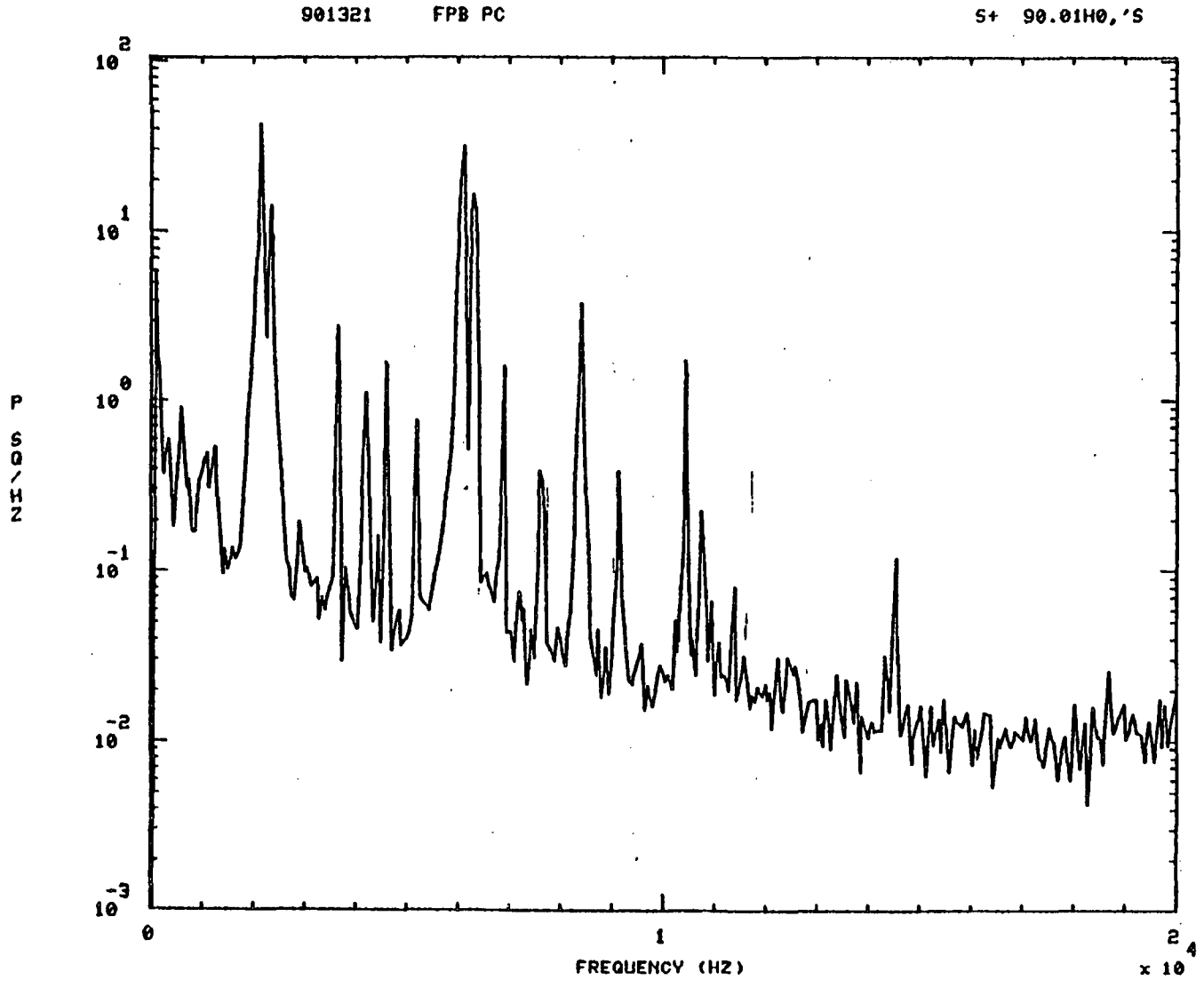
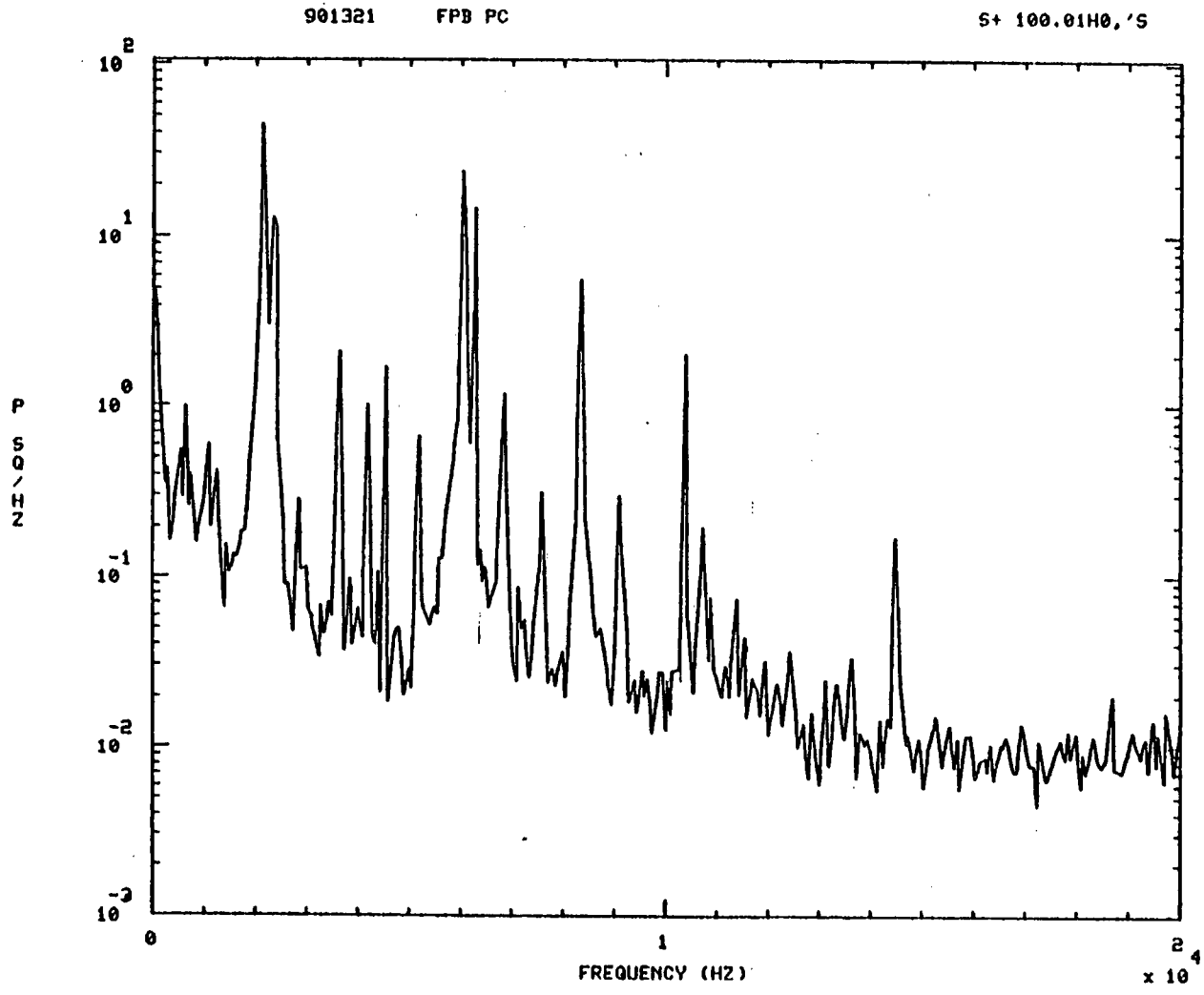
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4


901321 FPB PC
S+ 90.01H0,'S
P SQ/HZ
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4


901321 FPB PC
S+ 100.01H0,'S
P S Q / H Z
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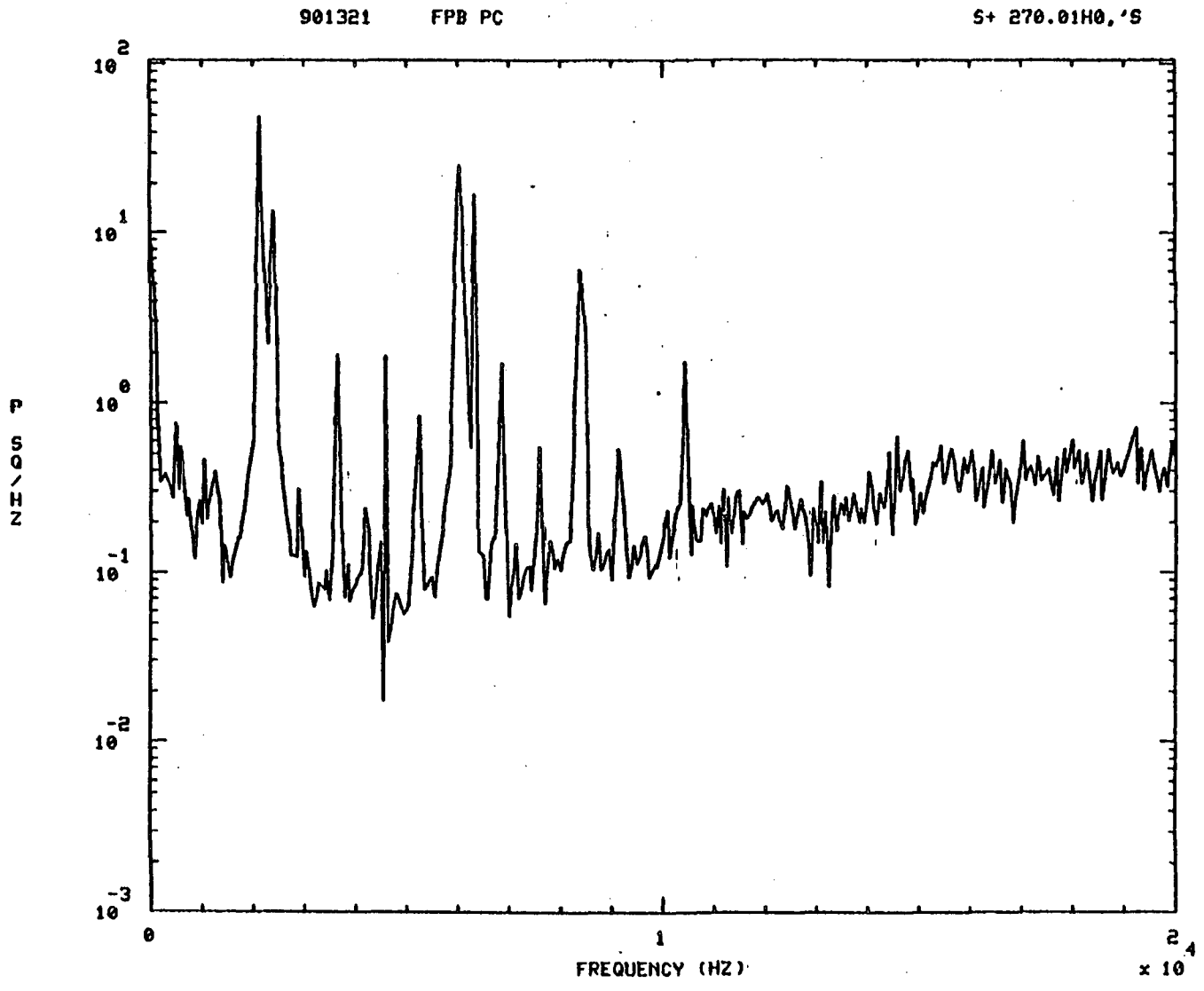
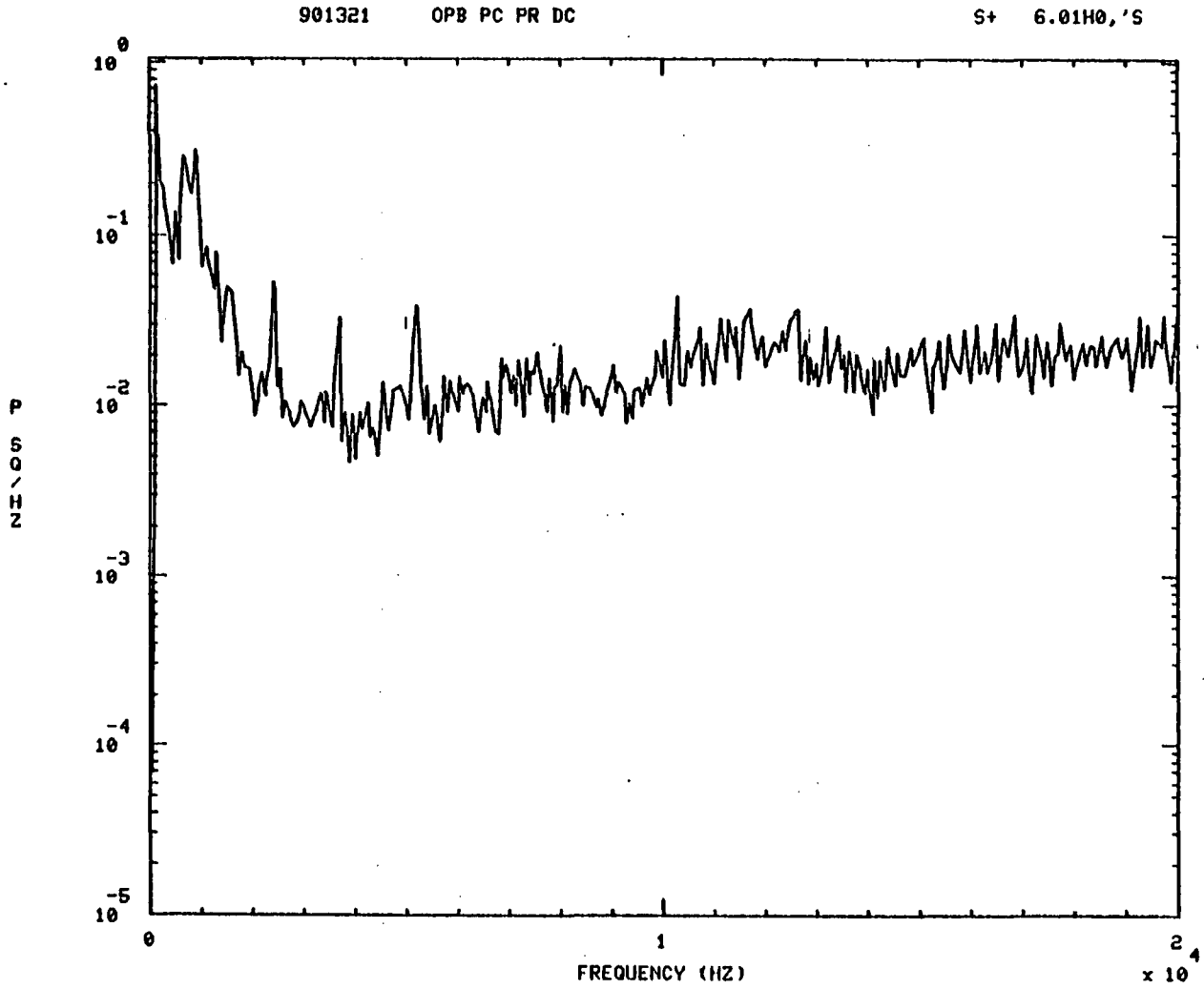
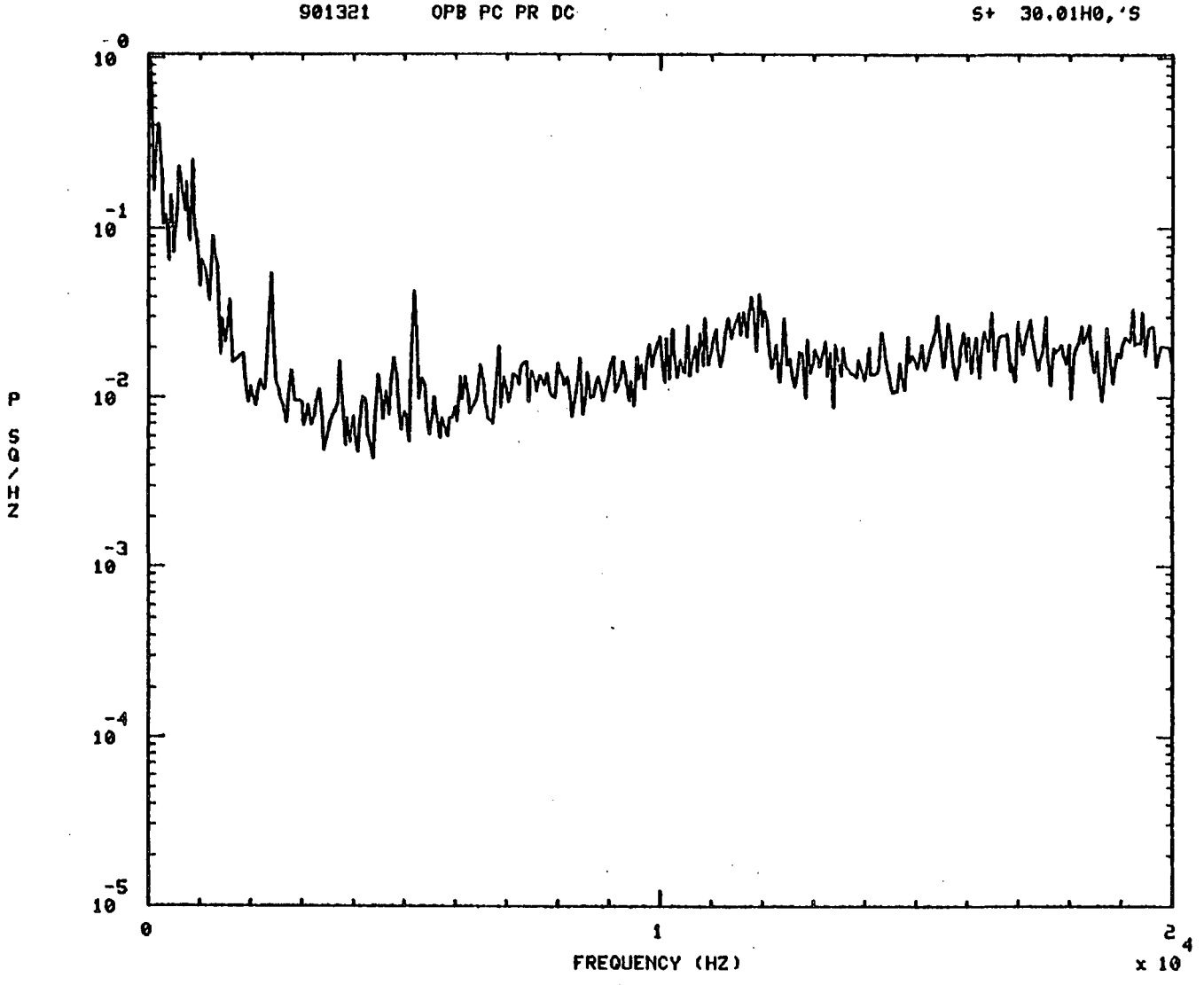
10 1
10 0
10 -1
10 -2
10 -3
0
1
2
FREQUENCY (HZ)
x 10 4


901321 FPB PC
S+ 270.01H0,'S
P SQ/HZ
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4


901321 OPB PC PR DC
S+ 6.01H0,'S
P SQ/HZ
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
FREQUENCY (HZ)
x 10^4


901321 OPB PC PR DC
S+ 30.01H0,'S
P SQ\HZ
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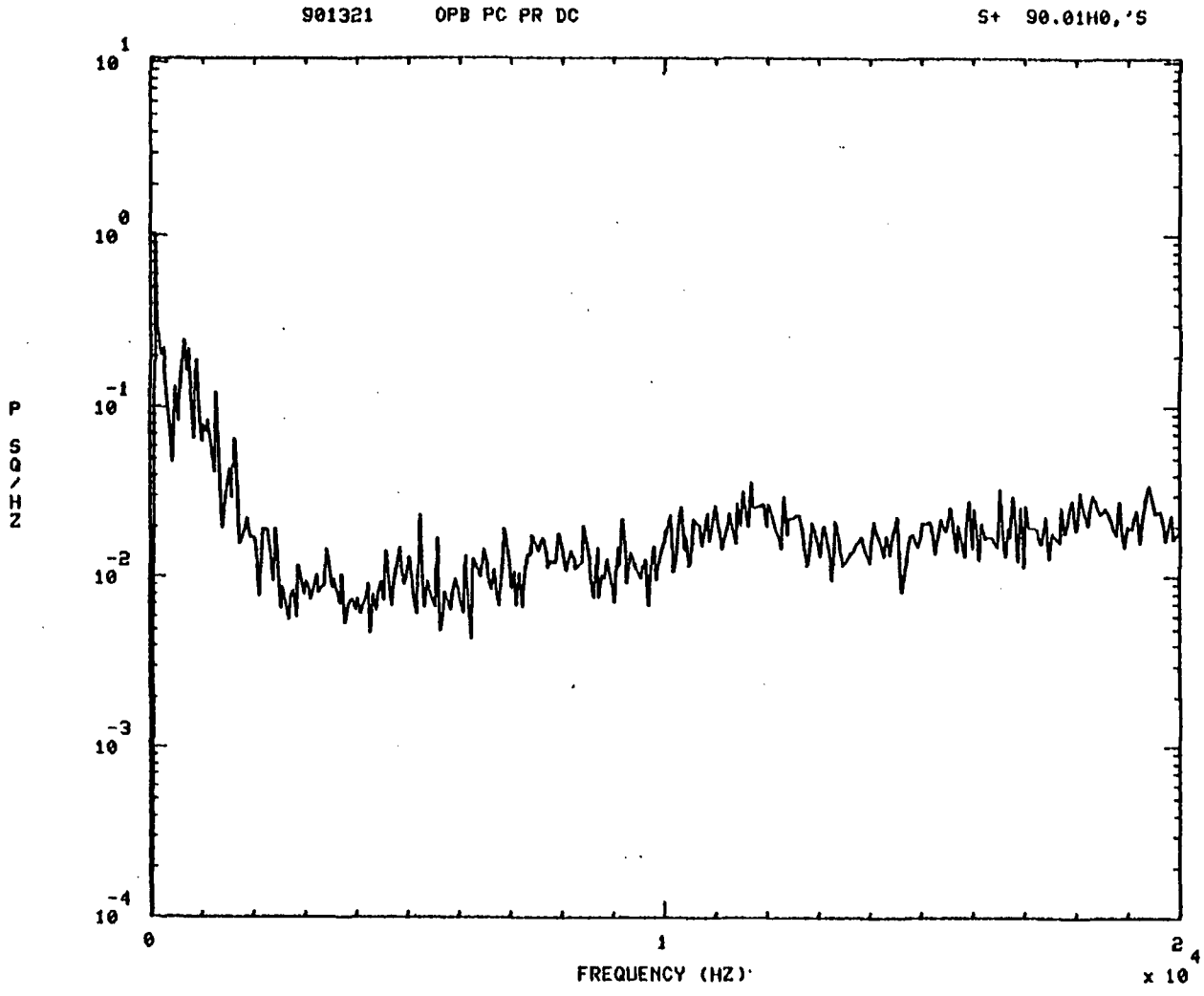
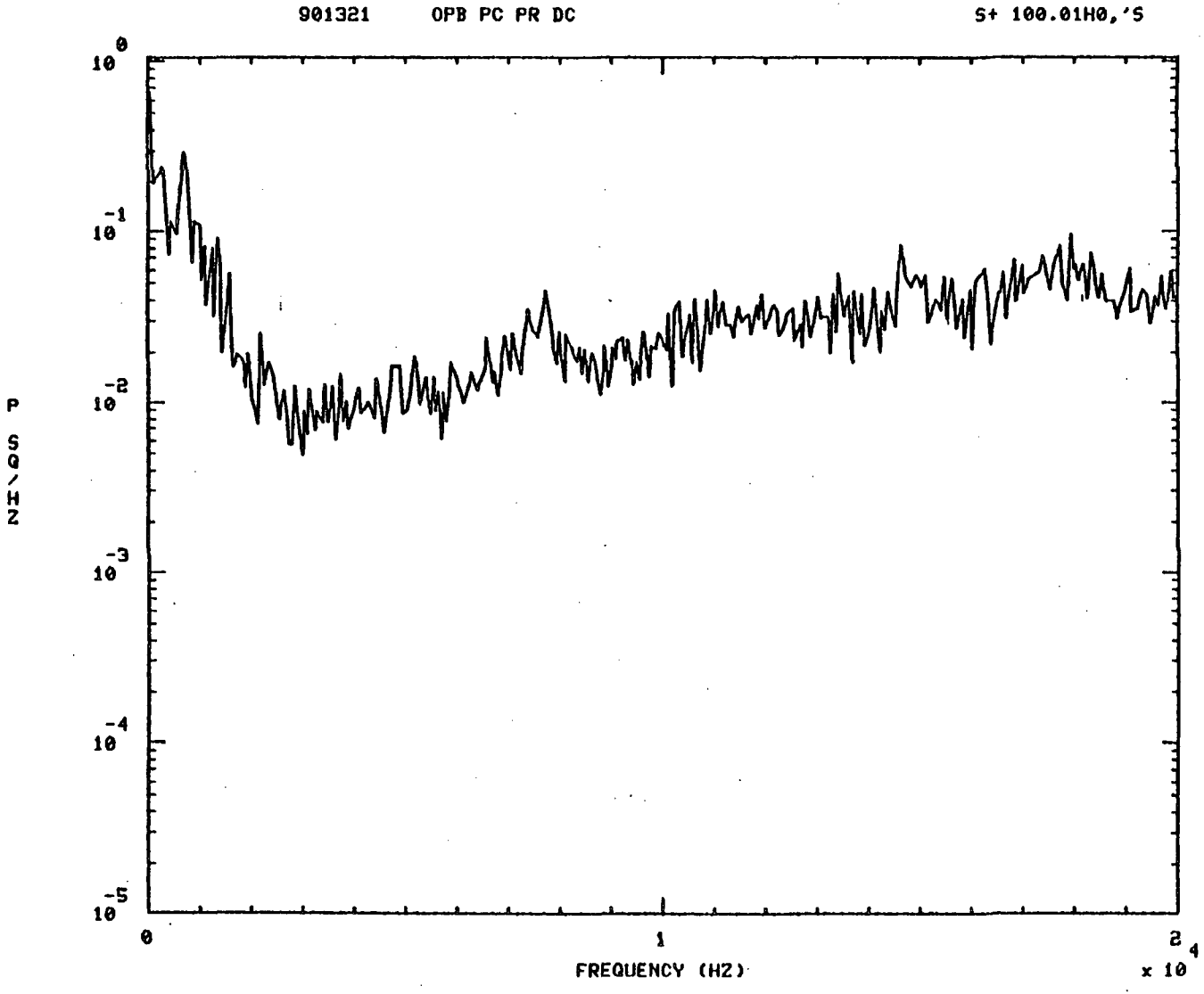
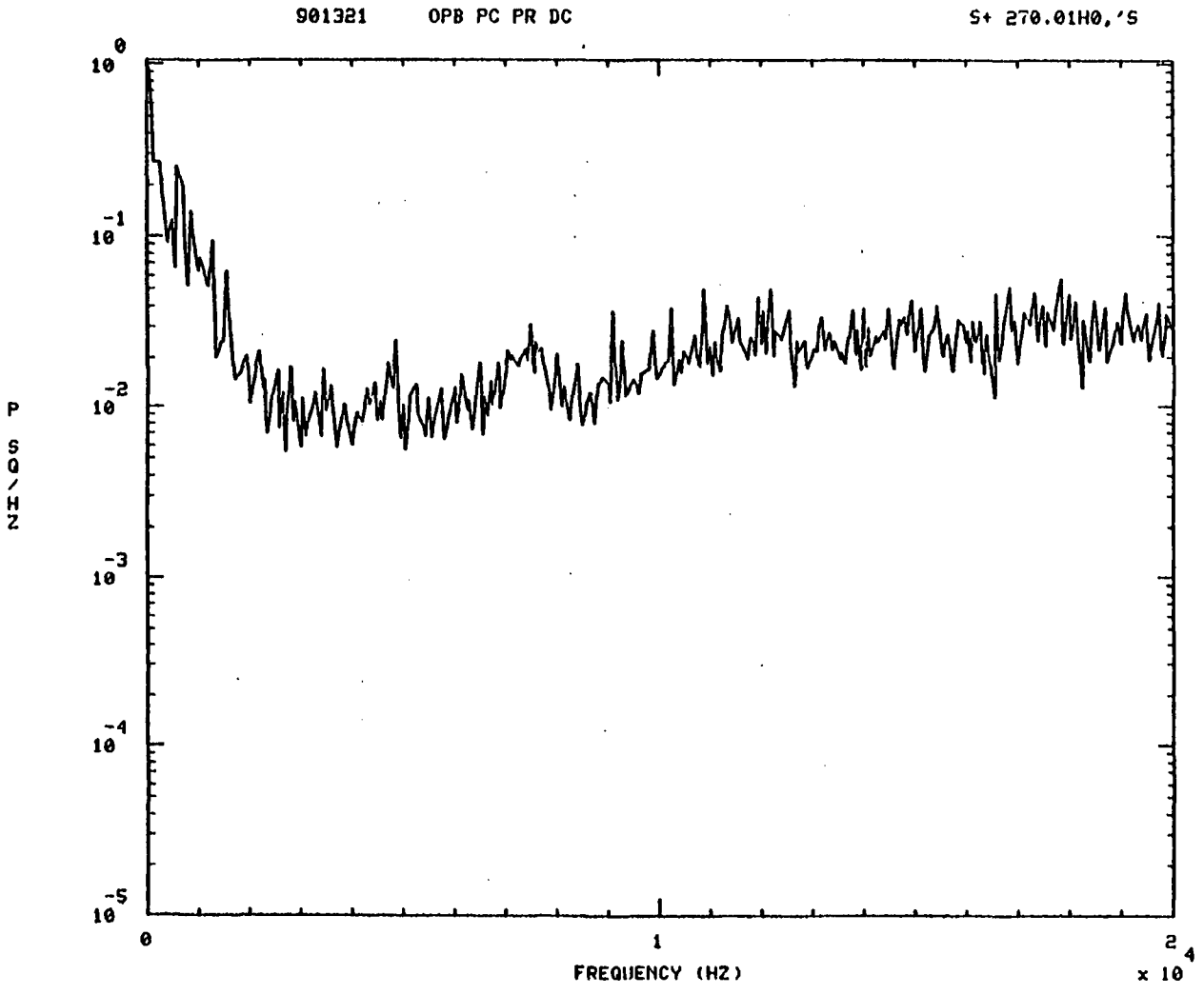
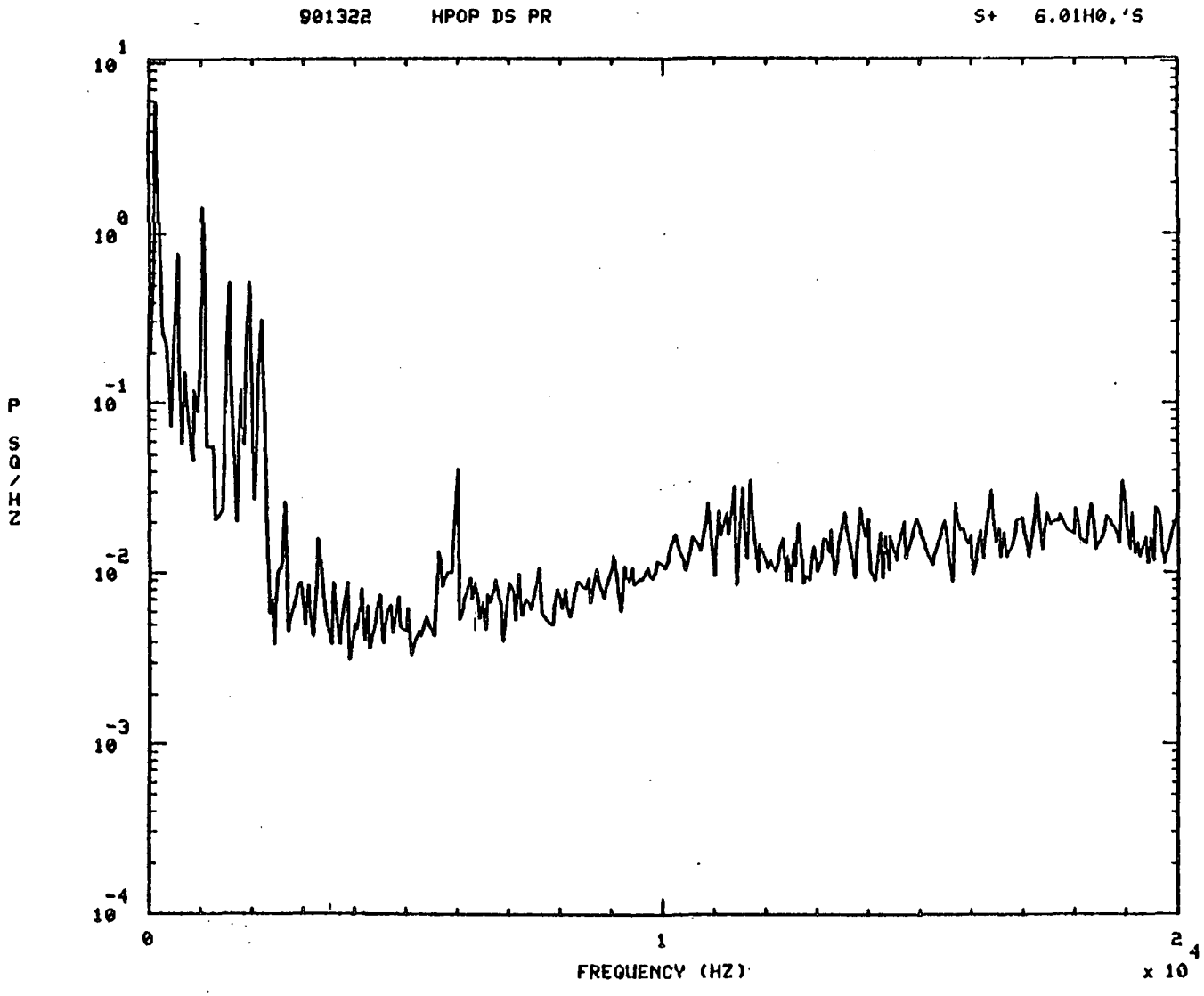
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
FREQUENCY (HZ)
x 10^4


901321 OPB PC PR DC
S+ 90.01H0,'S
P S Q / H Z
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
FREQUENCY (HZ)
x 10^4


901321 OPB PC PR DC
S+ 100.01H0,'S
P S0\H2
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
FREQUENCY (HZ)
x 10^4


901321 OPB PC PR DC
S+ 270.01H0,'S
P S Q / H Z
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
FREQUENCY (HZ)
x 10^4


901322 HPOP DS PR
S+ 6.01H0,'S
P S Q/HZ
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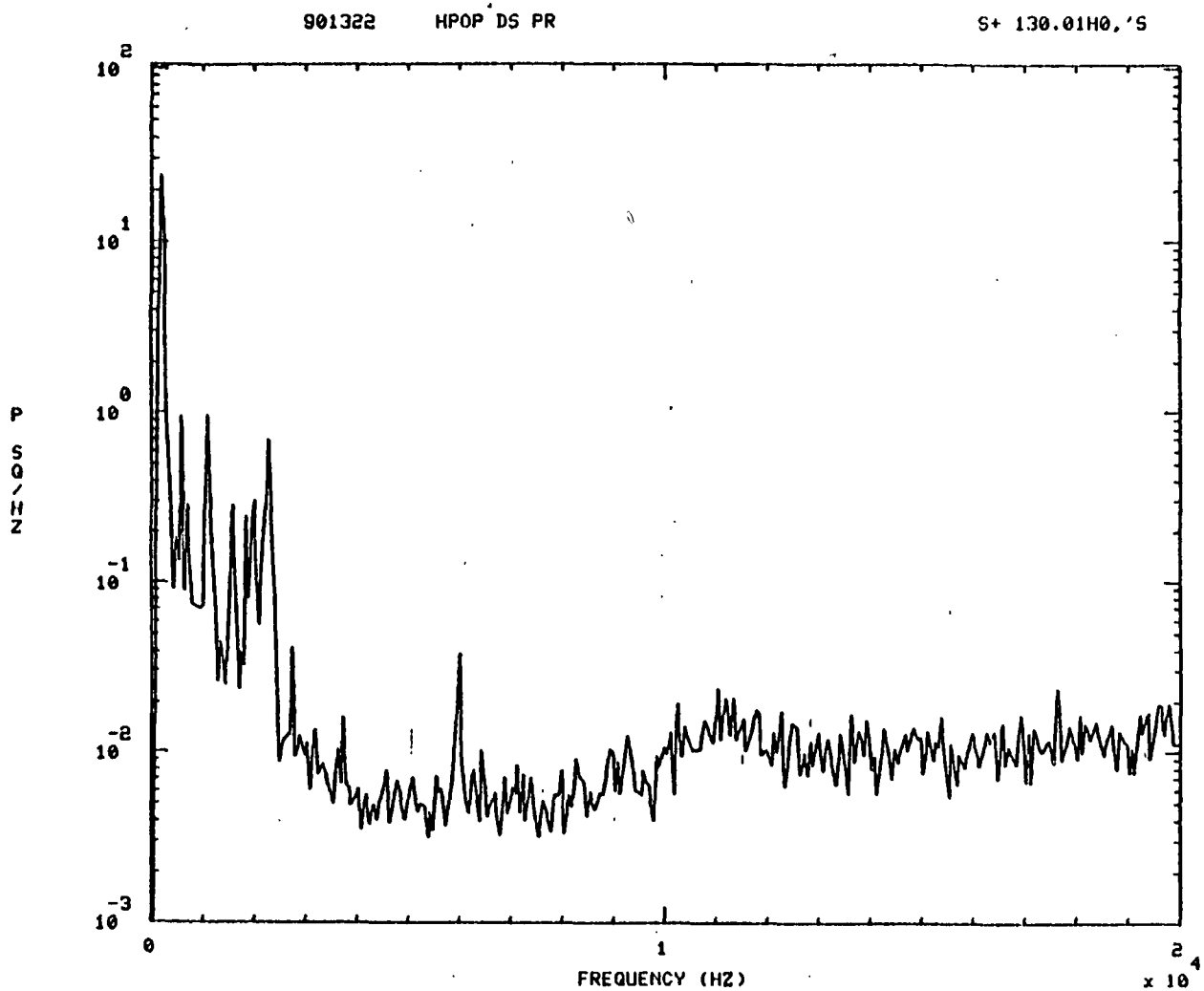
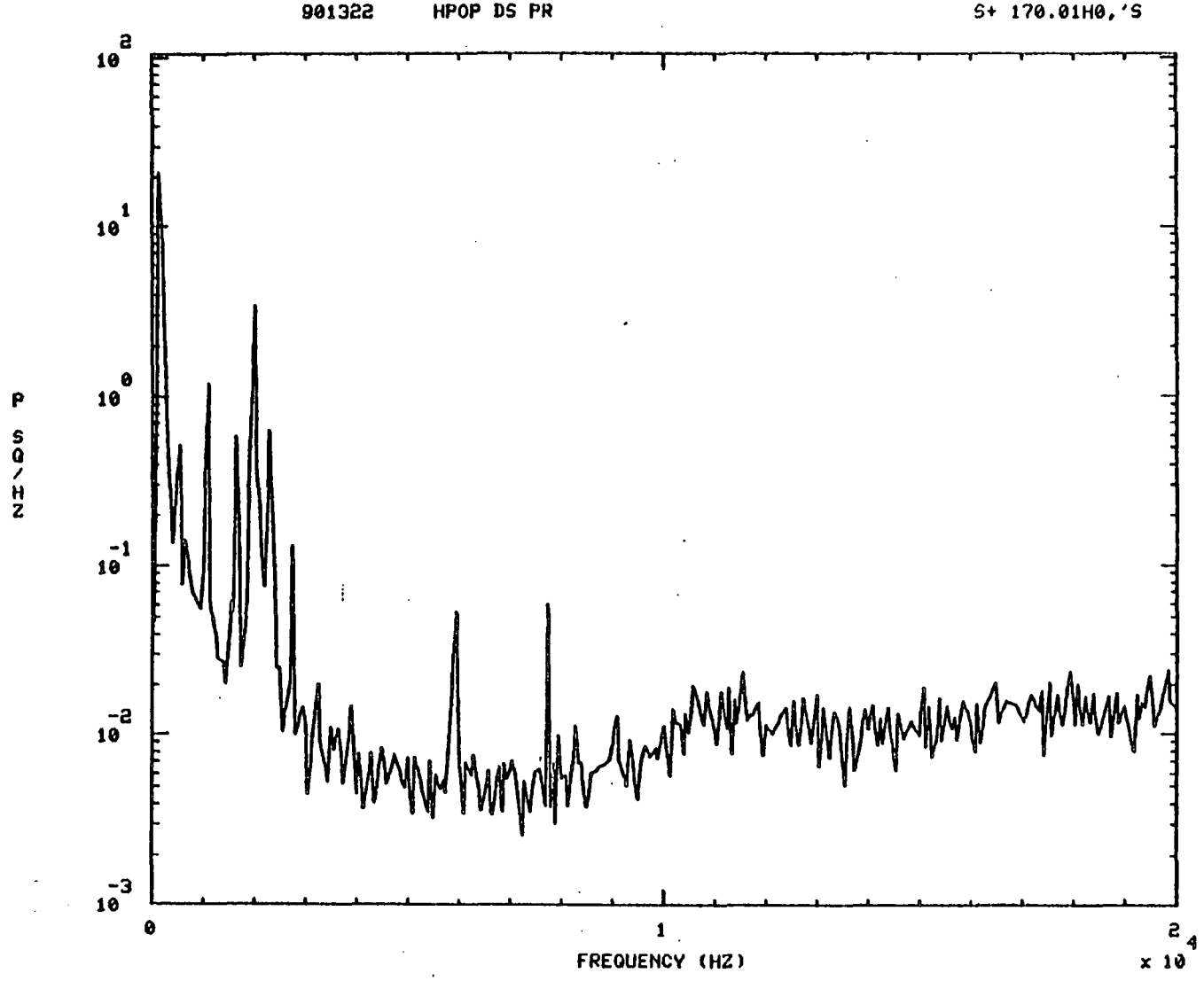
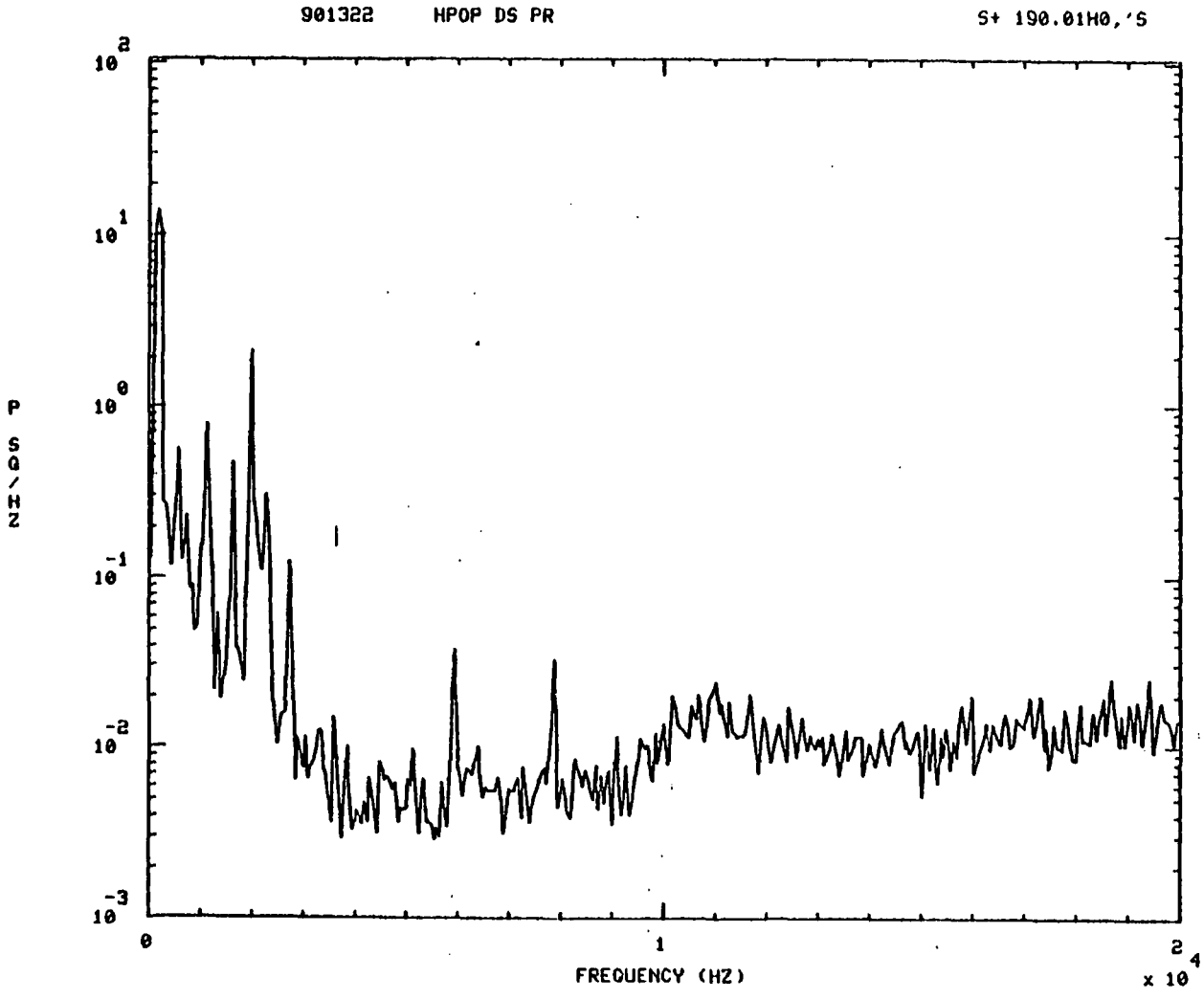
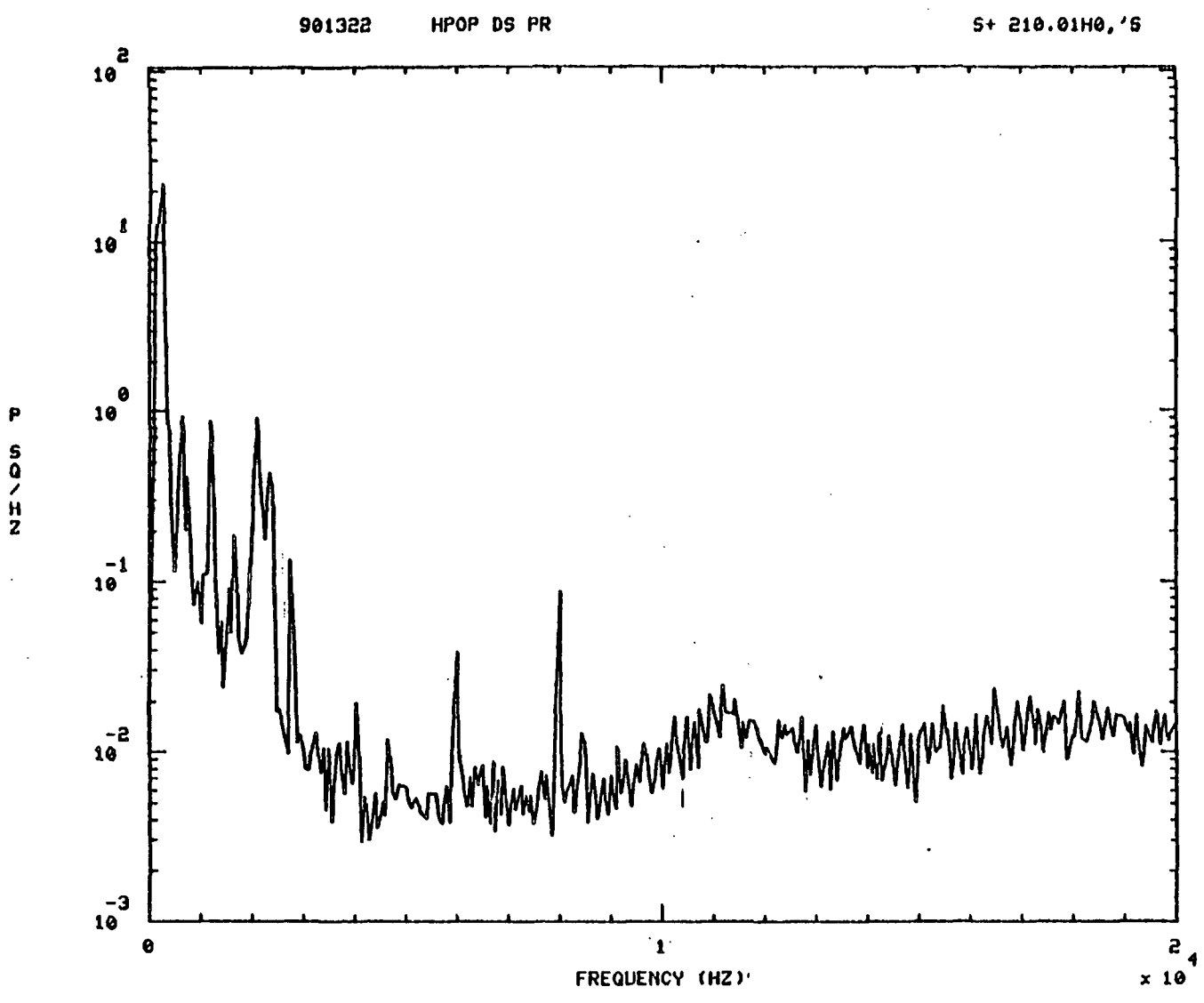
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
FREQUENCY (HZ)
x 10^4


901322 HPOP DS PR
S+ 130.01H0,'S
P
S
Q
/
H
Z
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4


901322 HPOP DS PR
S+ 170.01H0,'S
P SQ/HZ
10^{2}
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-3}
0
1
2
FREQUENCY (HZ)
x 10^{4}


901322 HPOP DS PR
S+ 190.01H0,'S
P S Q / H Z
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4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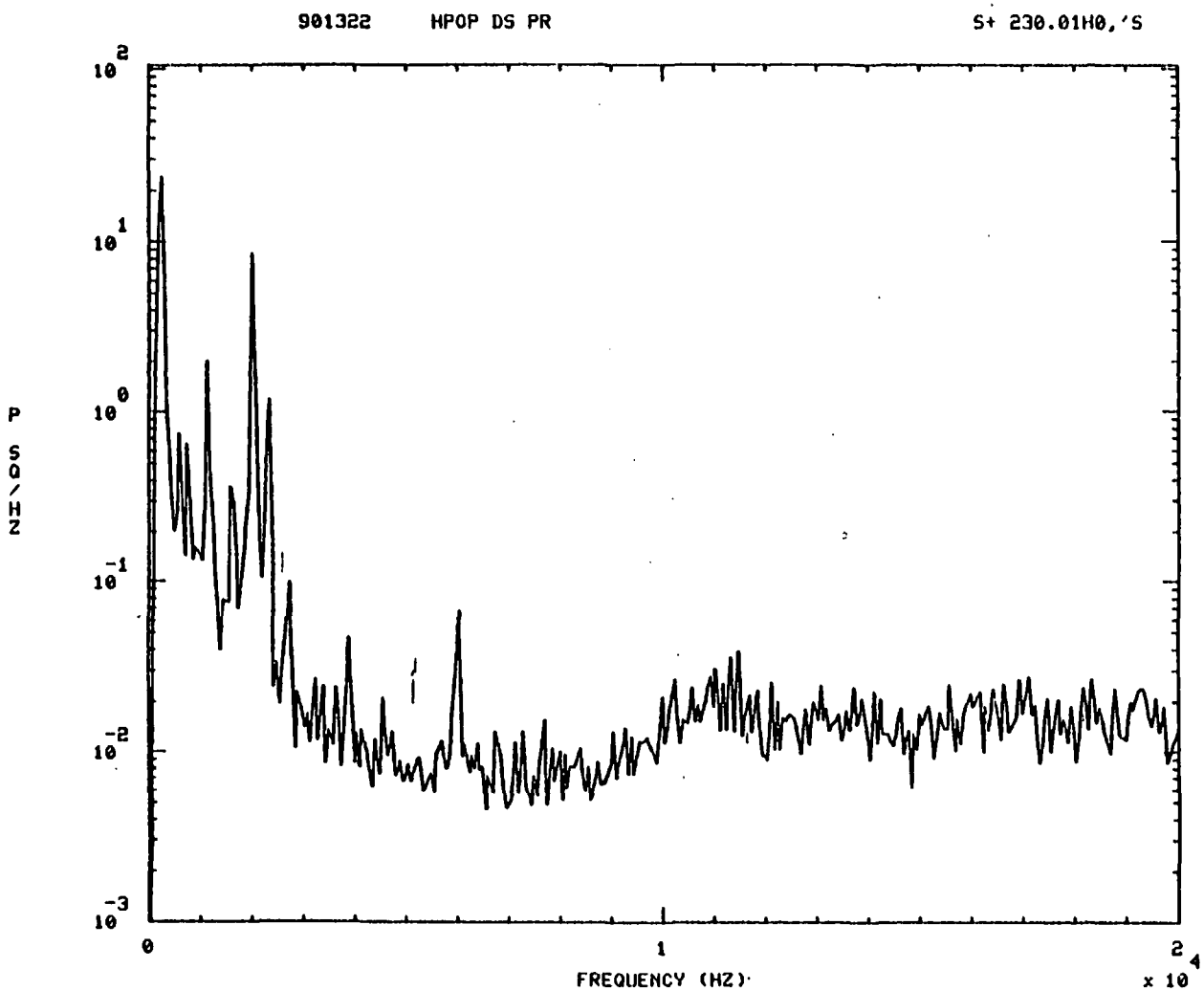
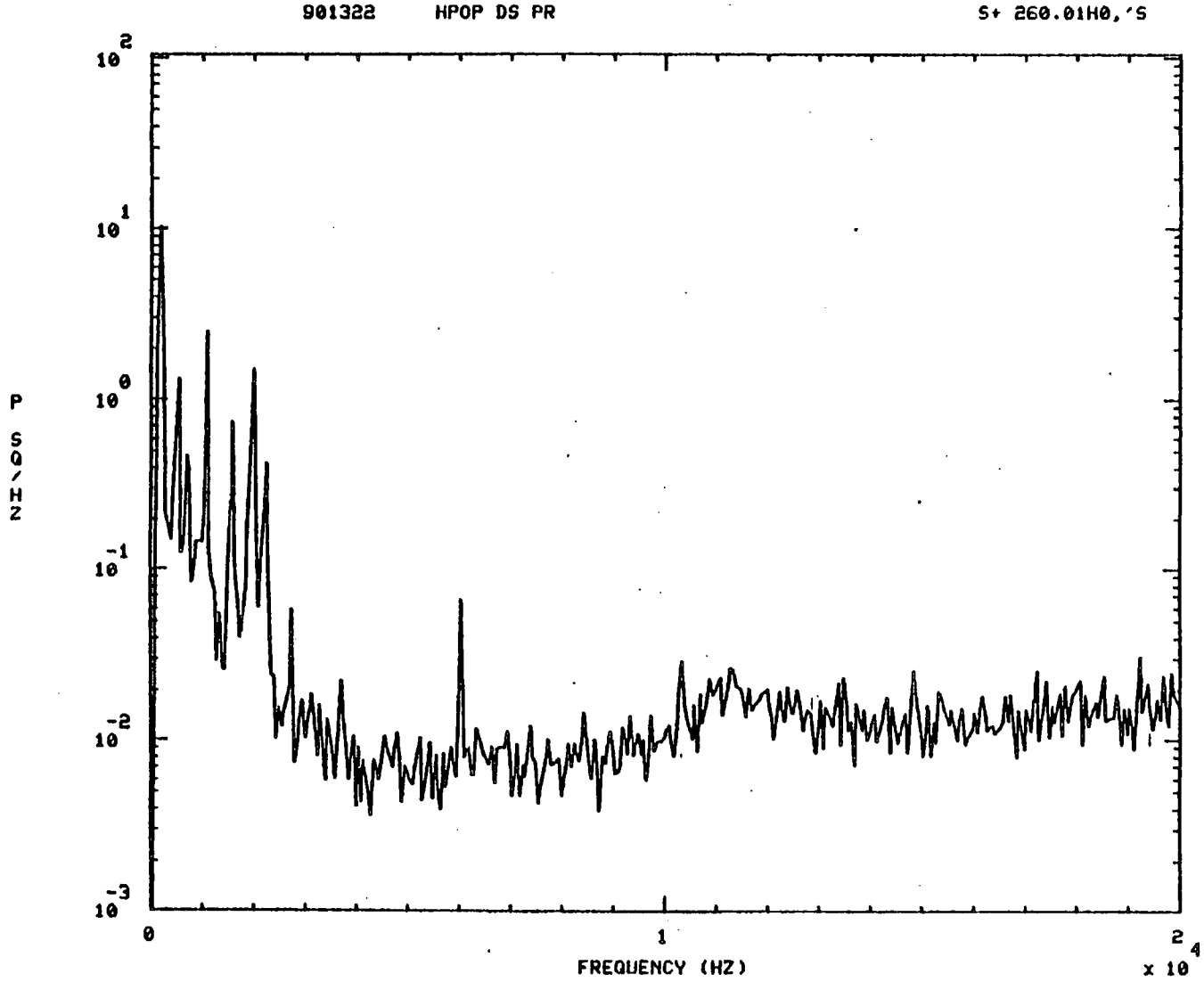
S+ 210.01H0,'S
P SQ\HZ
FREQUENCY (HZ)
x 10


901322 HPOP DS PR
S+ 230.01H0,'S
P S Q / H Z
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4


901322 HPOP DS PR
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P SQ/HZ
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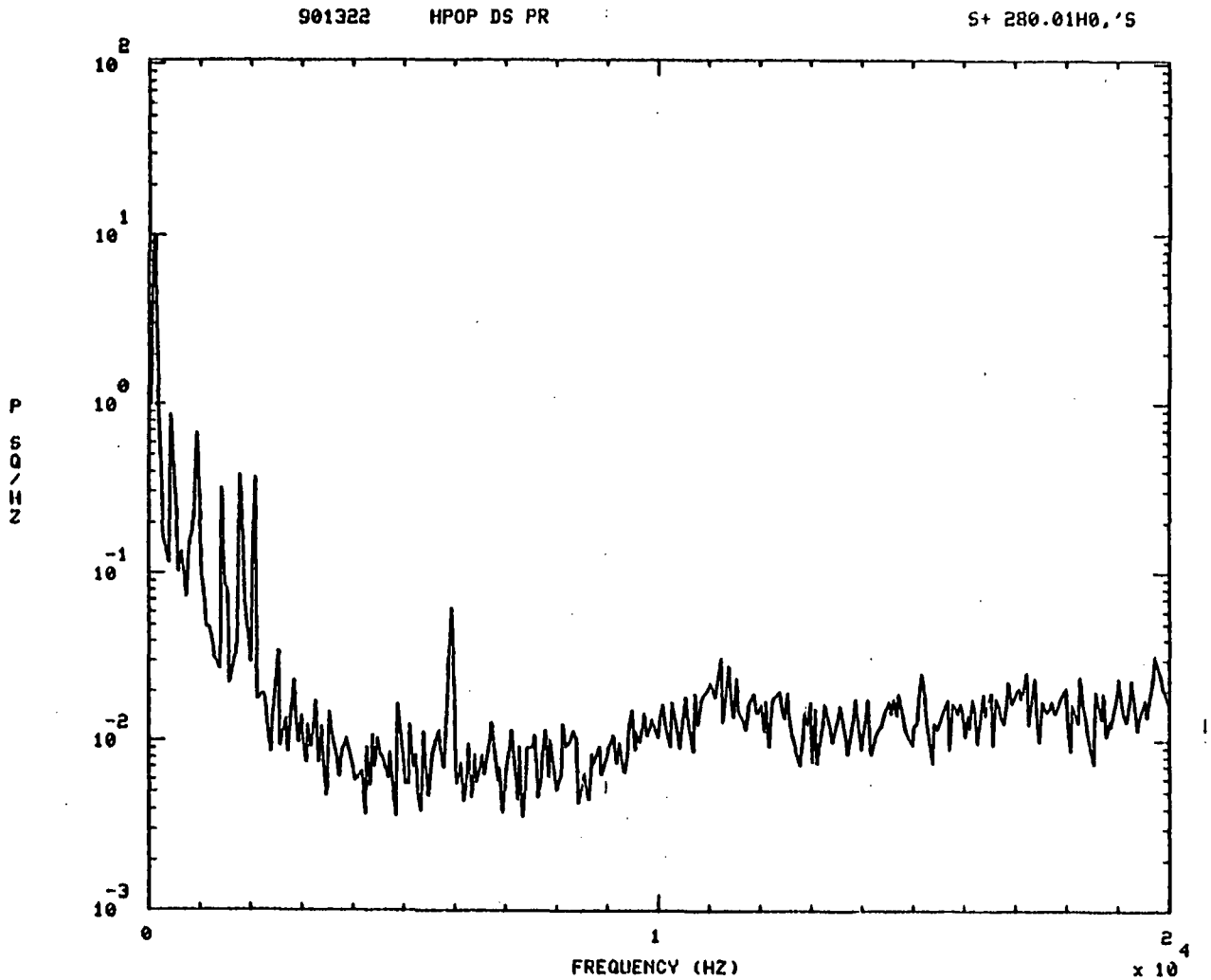
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4


901322 HPOP DS PR
S+ 280.01H0,'S
P S Q / H Z
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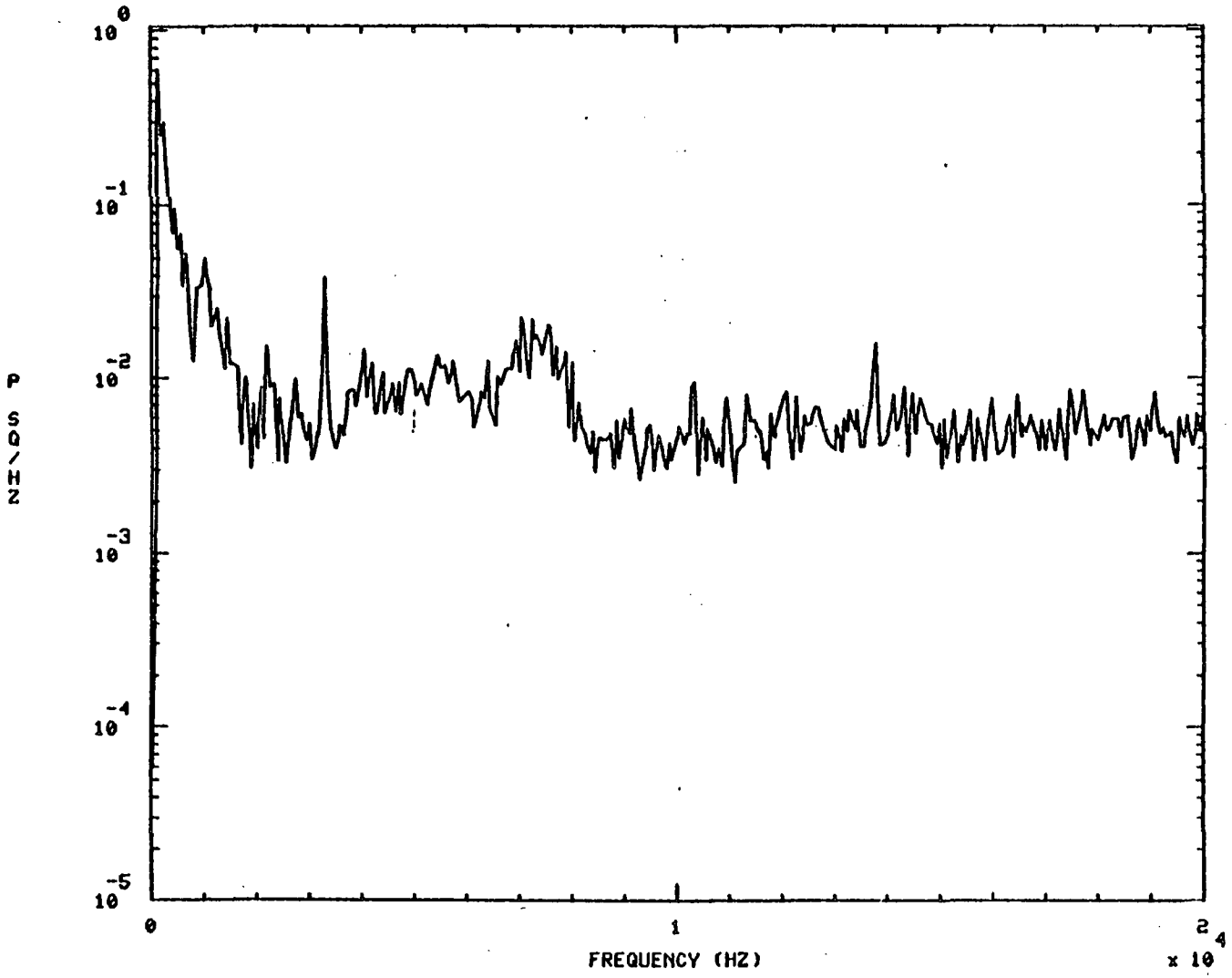
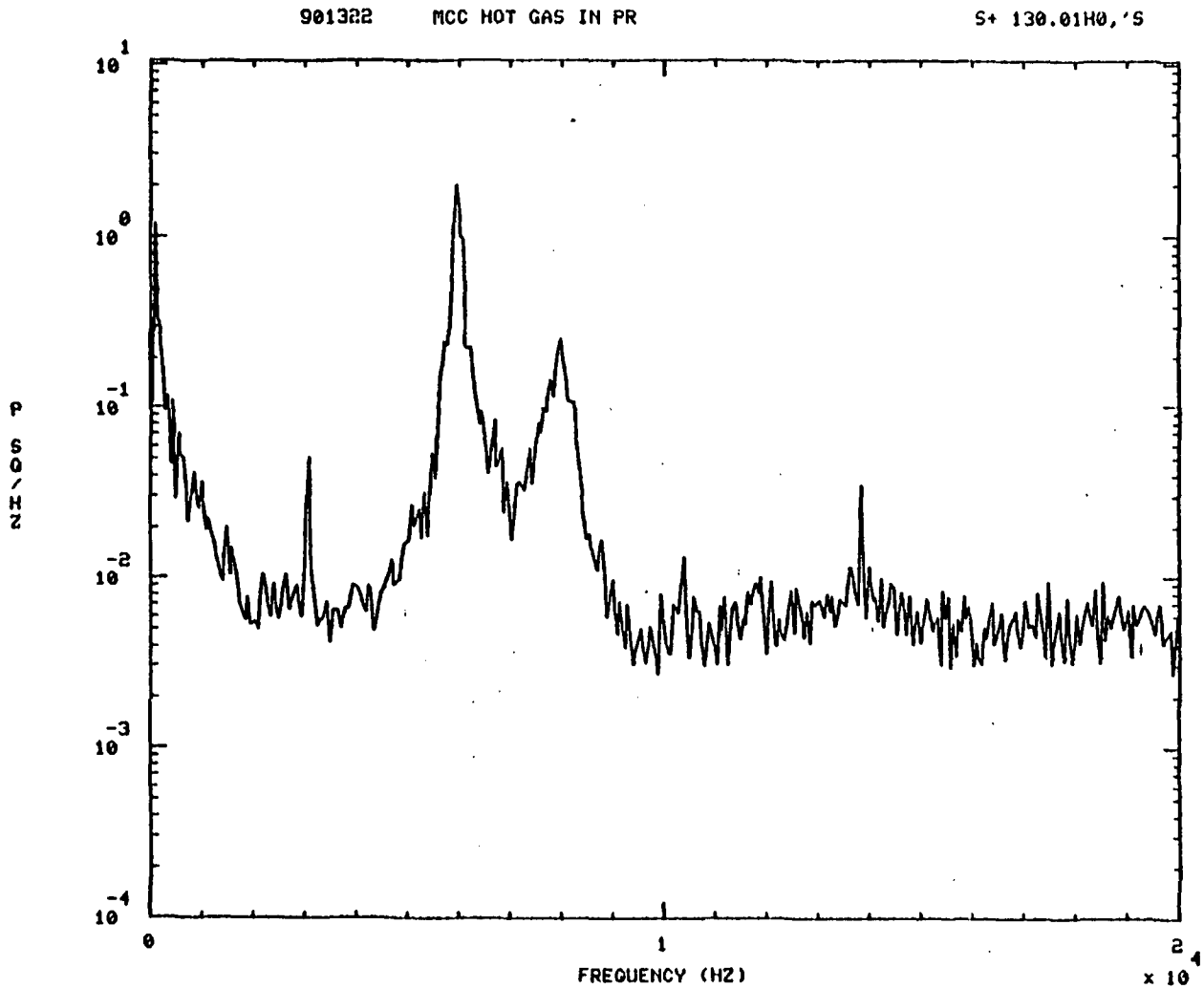
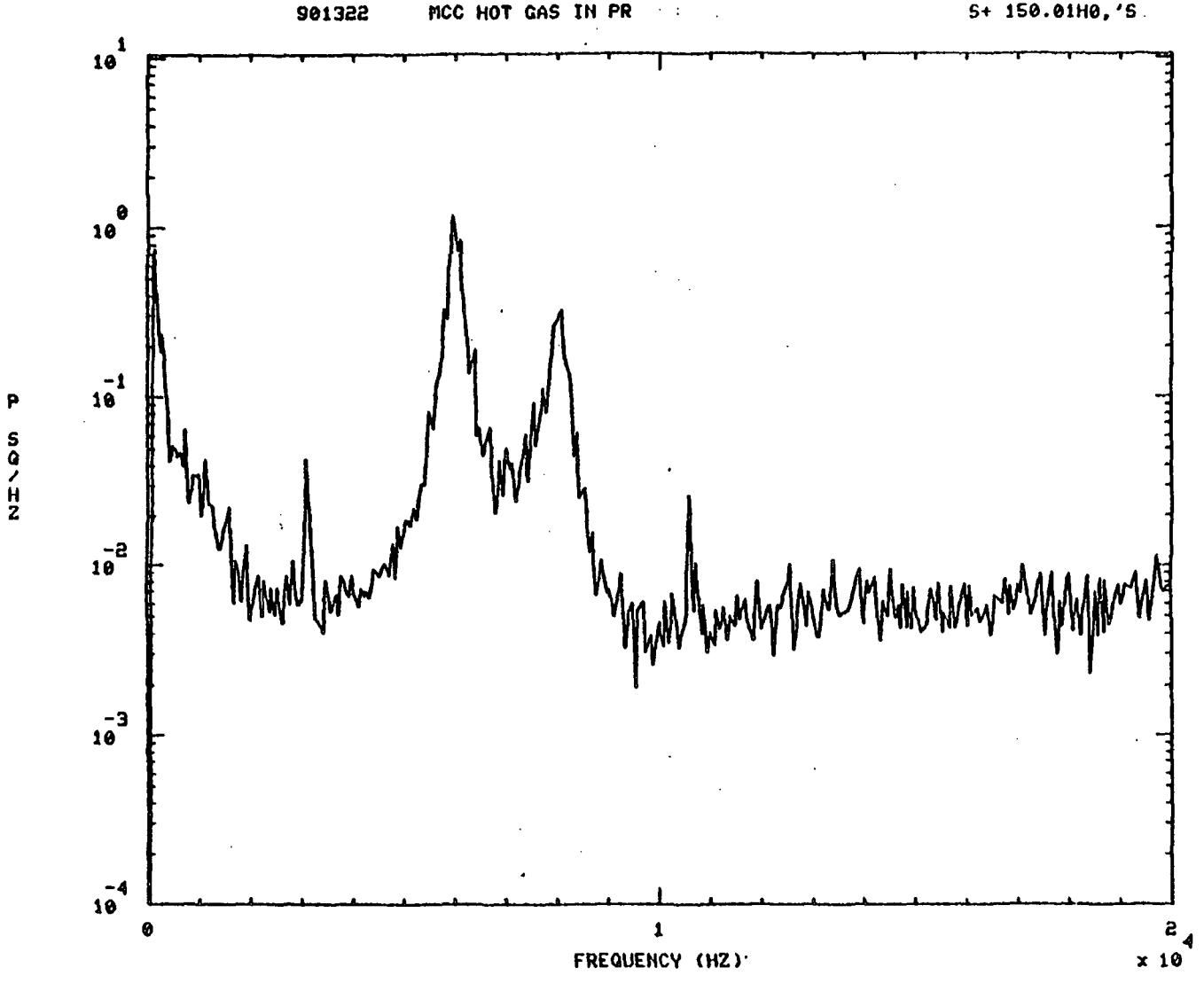
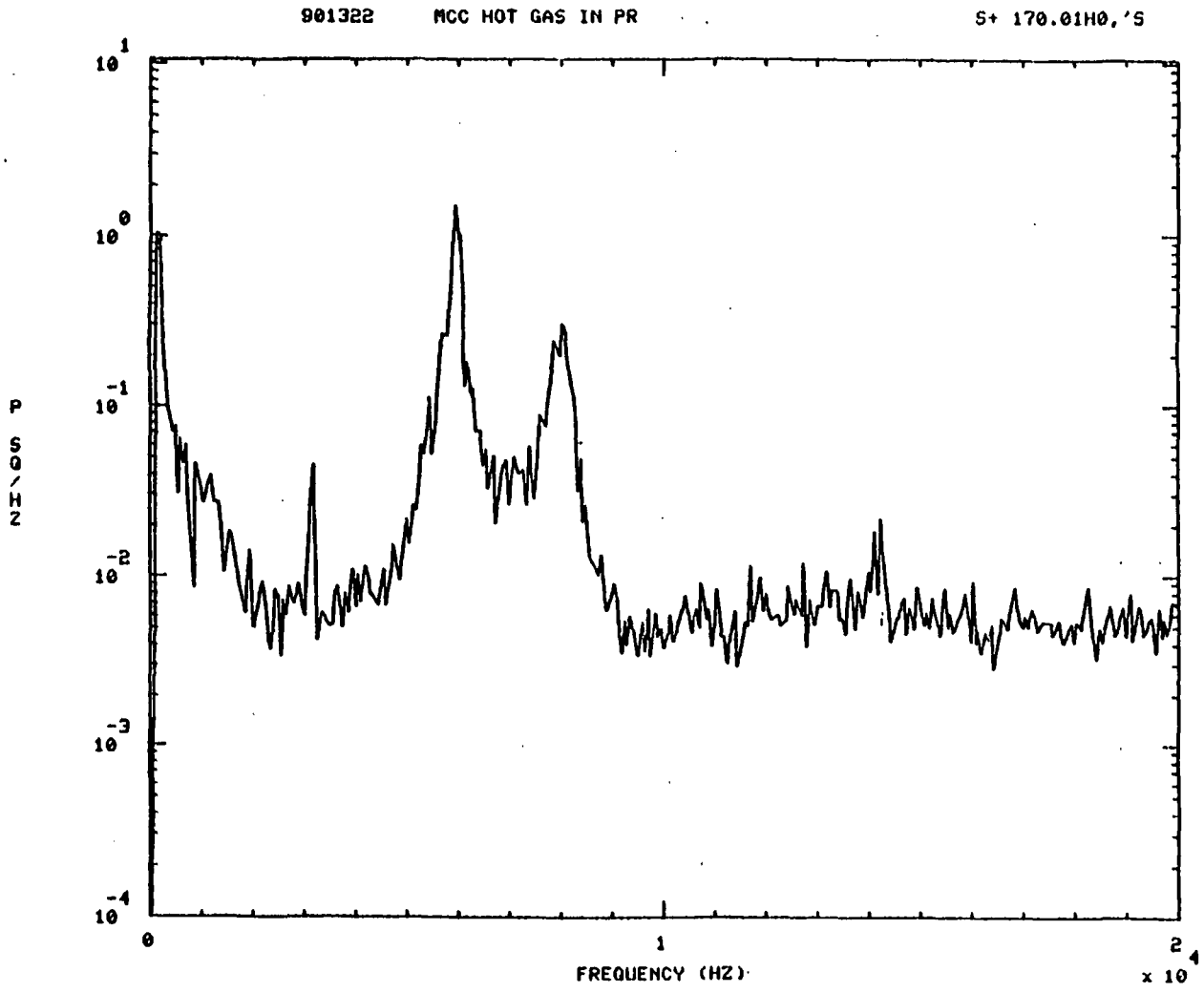
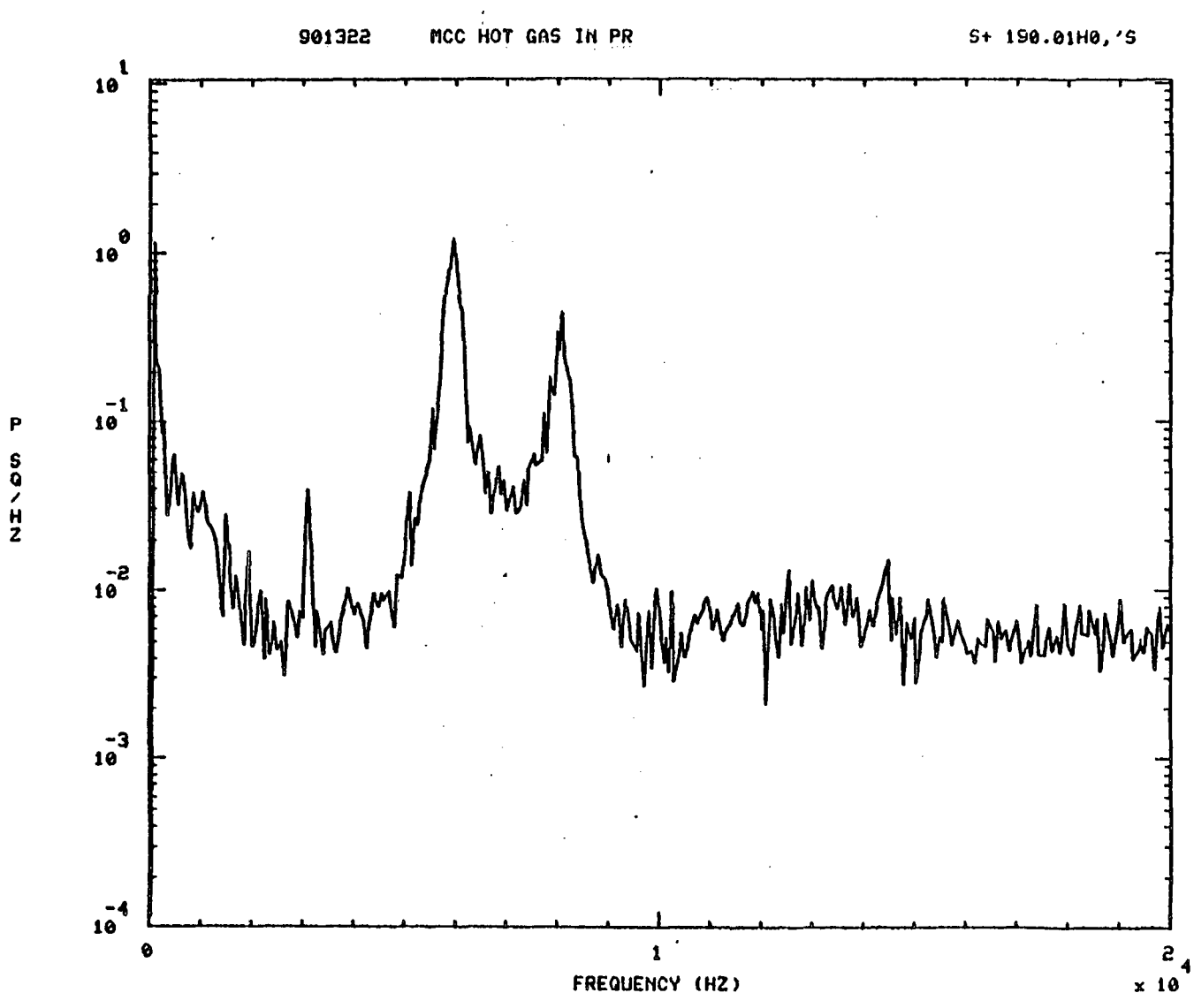
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4


901322 MCC HOT GAS IN PR
6+ 6.01H0,'S
P S Q / H Z
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
FREQUENCY (HZ)
x 10^4


901322 MCC HOT GAS IN PR
S+ 130.01H0,'S
P S Q/HZ
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
FREQUENCY (HZ)
x 10^4


901322 MCC HOT GAS IN PR
S+ 150.01H0,'S
P SQ\HZ
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
FREQUENCY (HZ)
x 10^4


901322 MCC HOT GAS IN PR
S+ 170.01H0,'S
P S Q / H Z
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
FREQUENCY (HZ)
x 10^4


901322 MCC HOT GAS IN PR
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P
SQ\HZ
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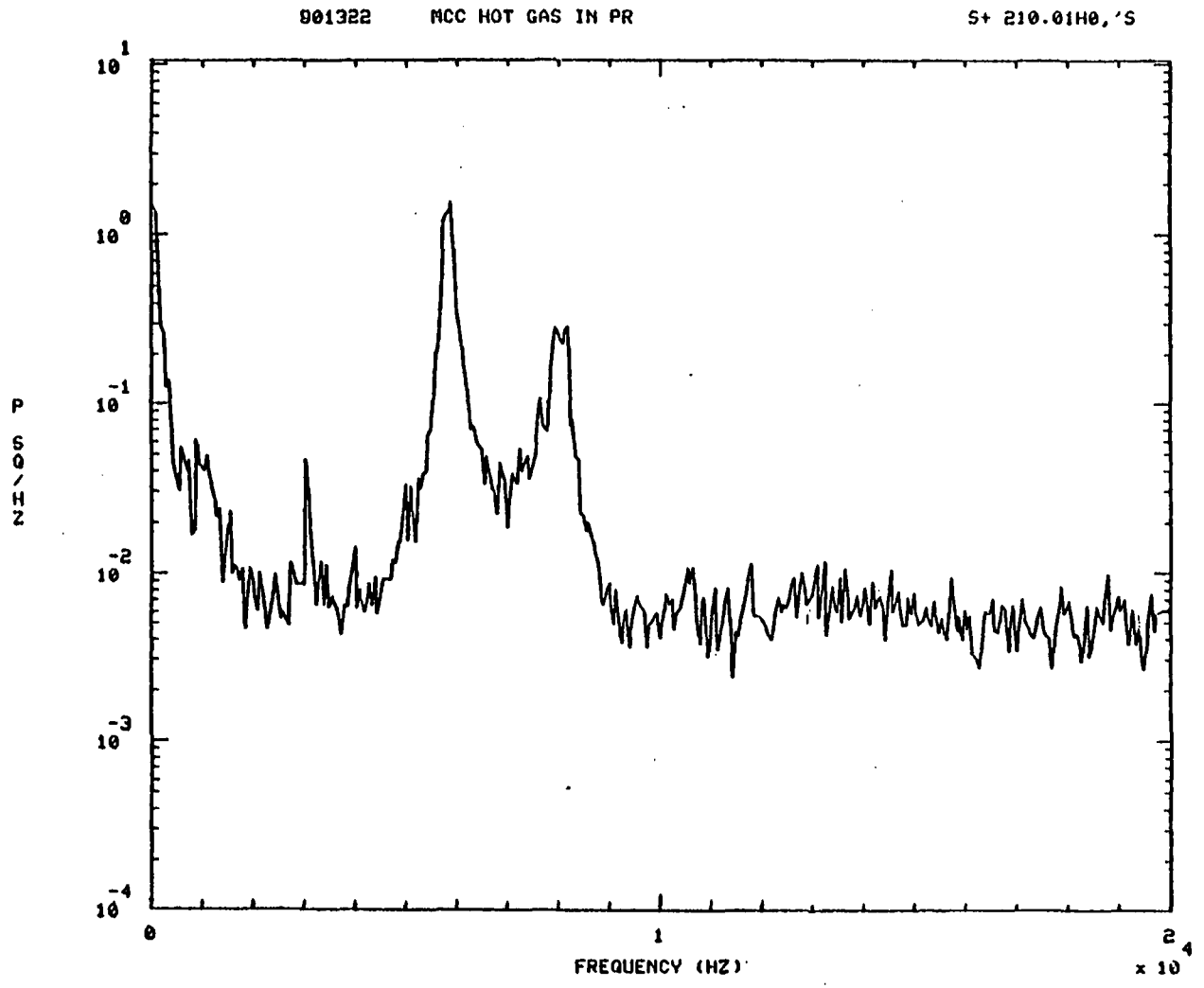
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
FREQUENCY (HZ)
x 10^4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S+ 210.01H0,'S
P S0/HZ
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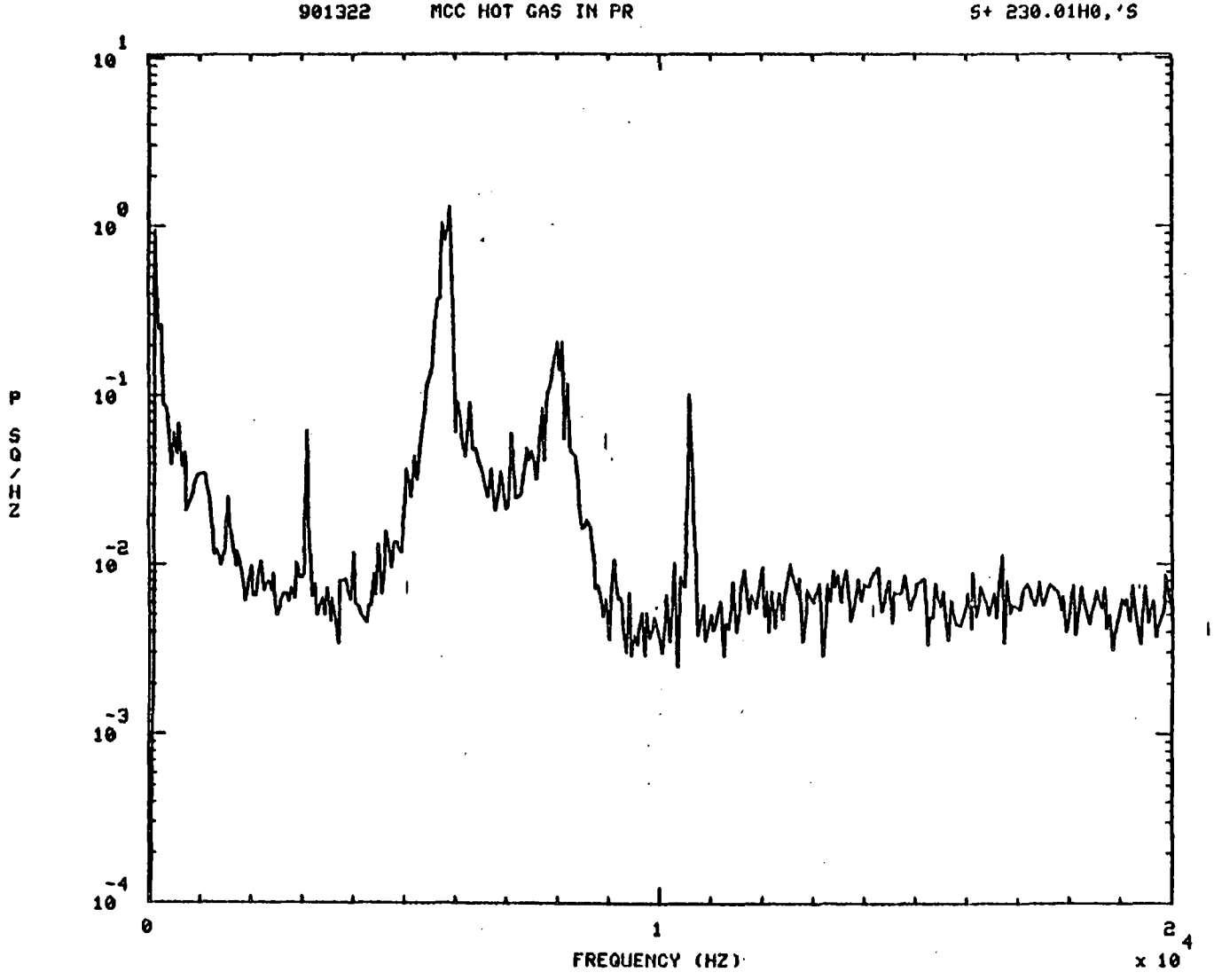
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
4
FREQUENCY (HZ)
x 10


901322 MCC HOT GAS IN PR
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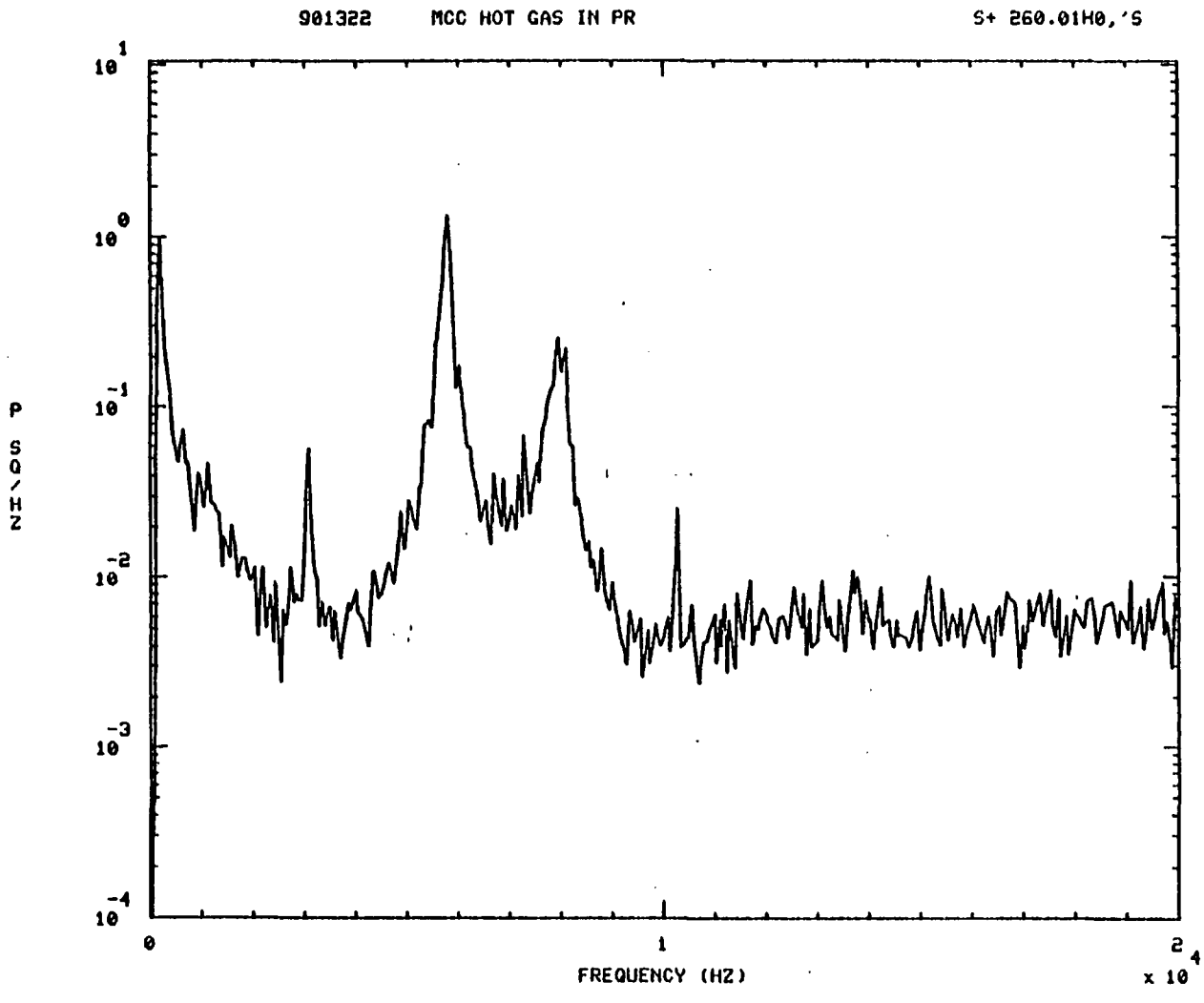
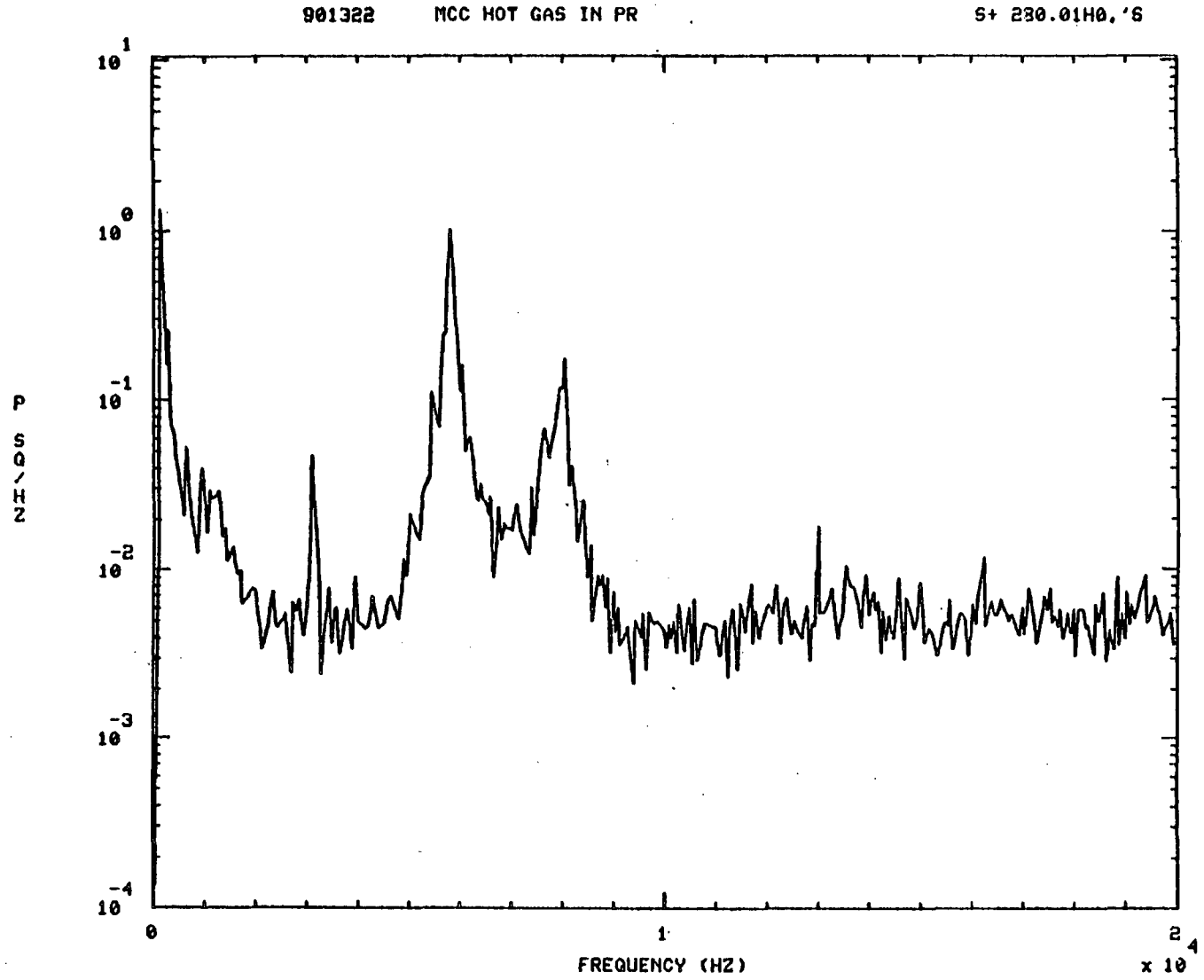
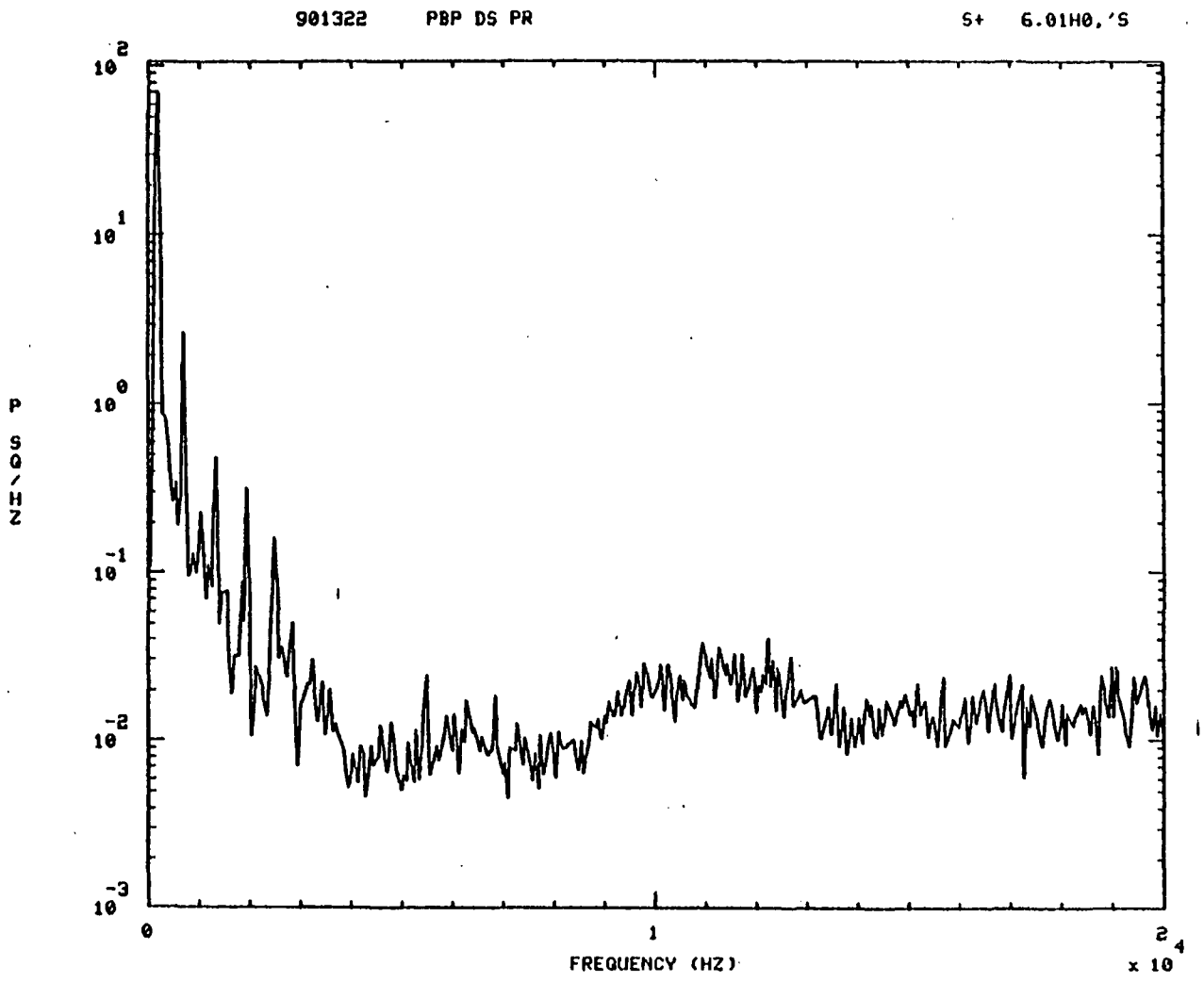
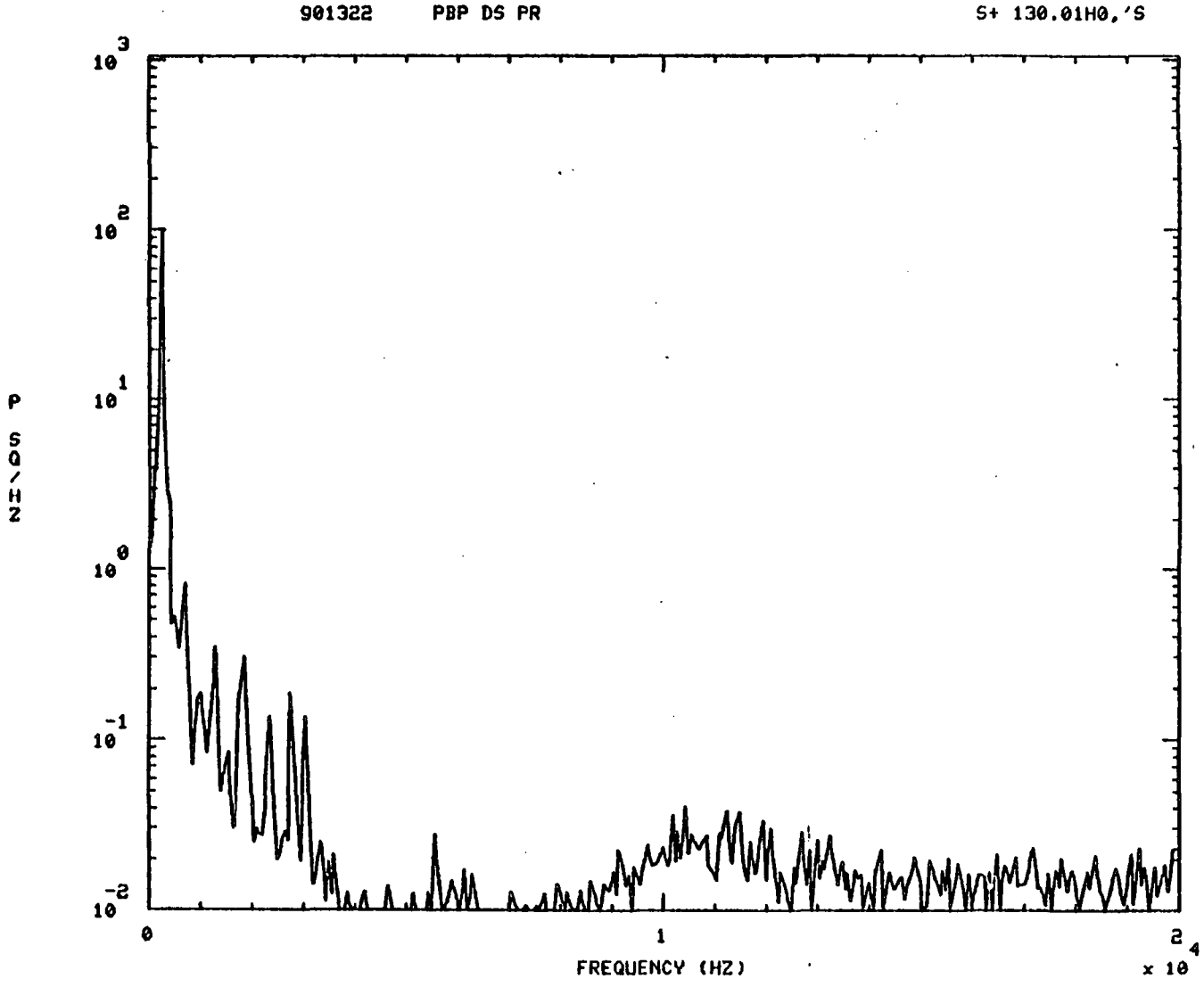
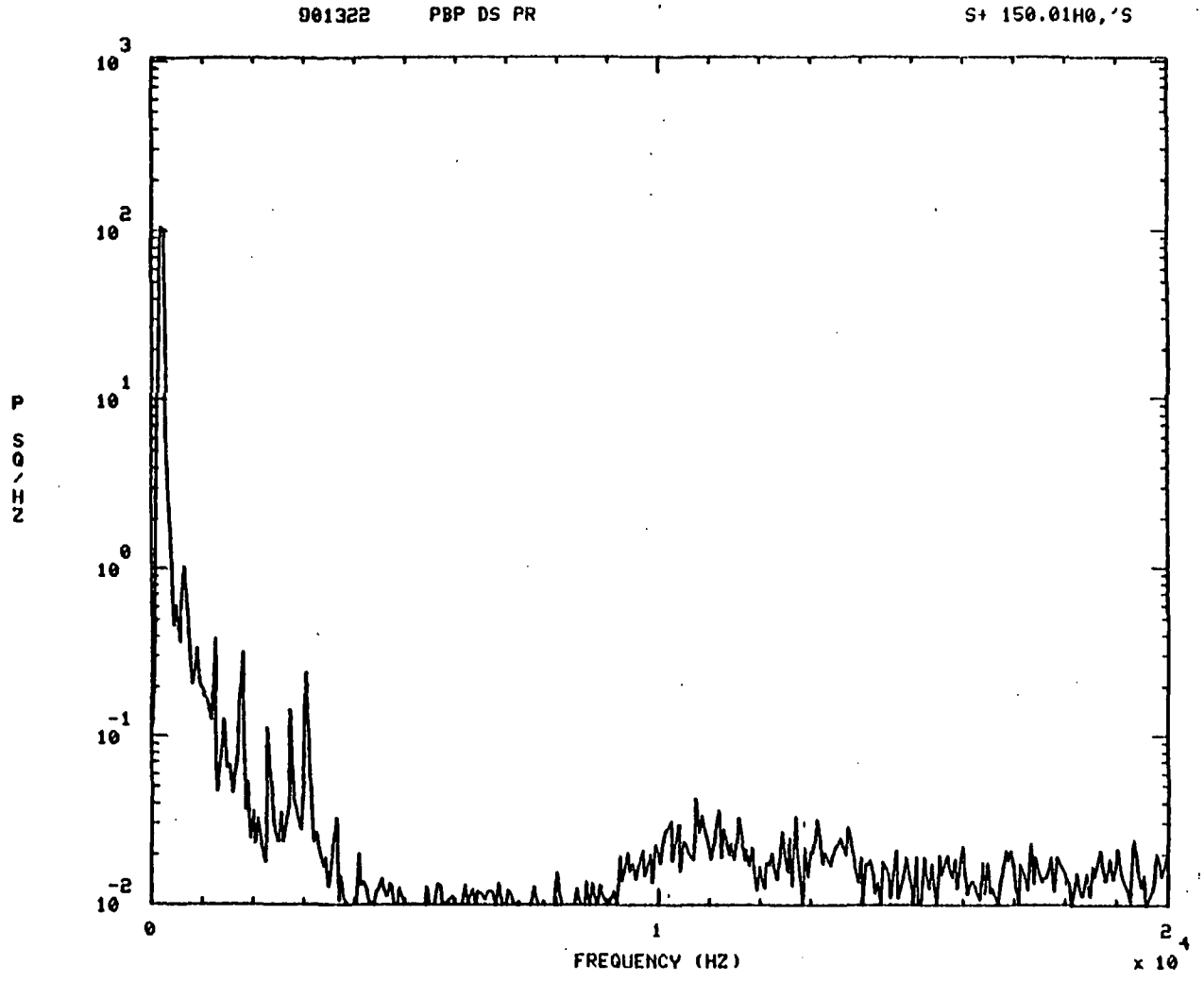
P SQ/HZ
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
FREQUENCY (HZ)
x 10^4

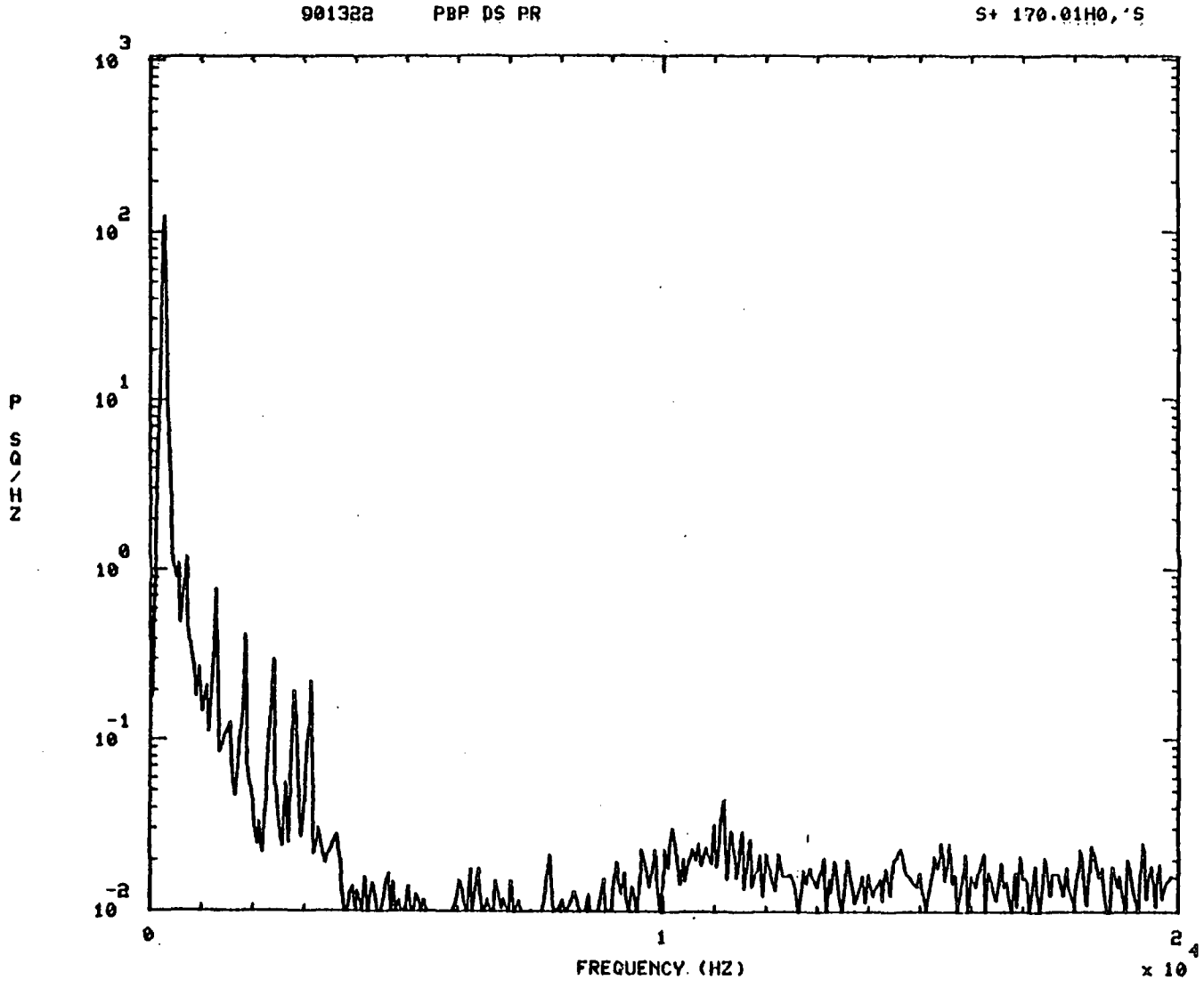

901322 MCC HOT GAS IN PR
S+ 260.01H0,'S
P S Q \ H Z
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
FREQUENCY (HZ)
x 10^4

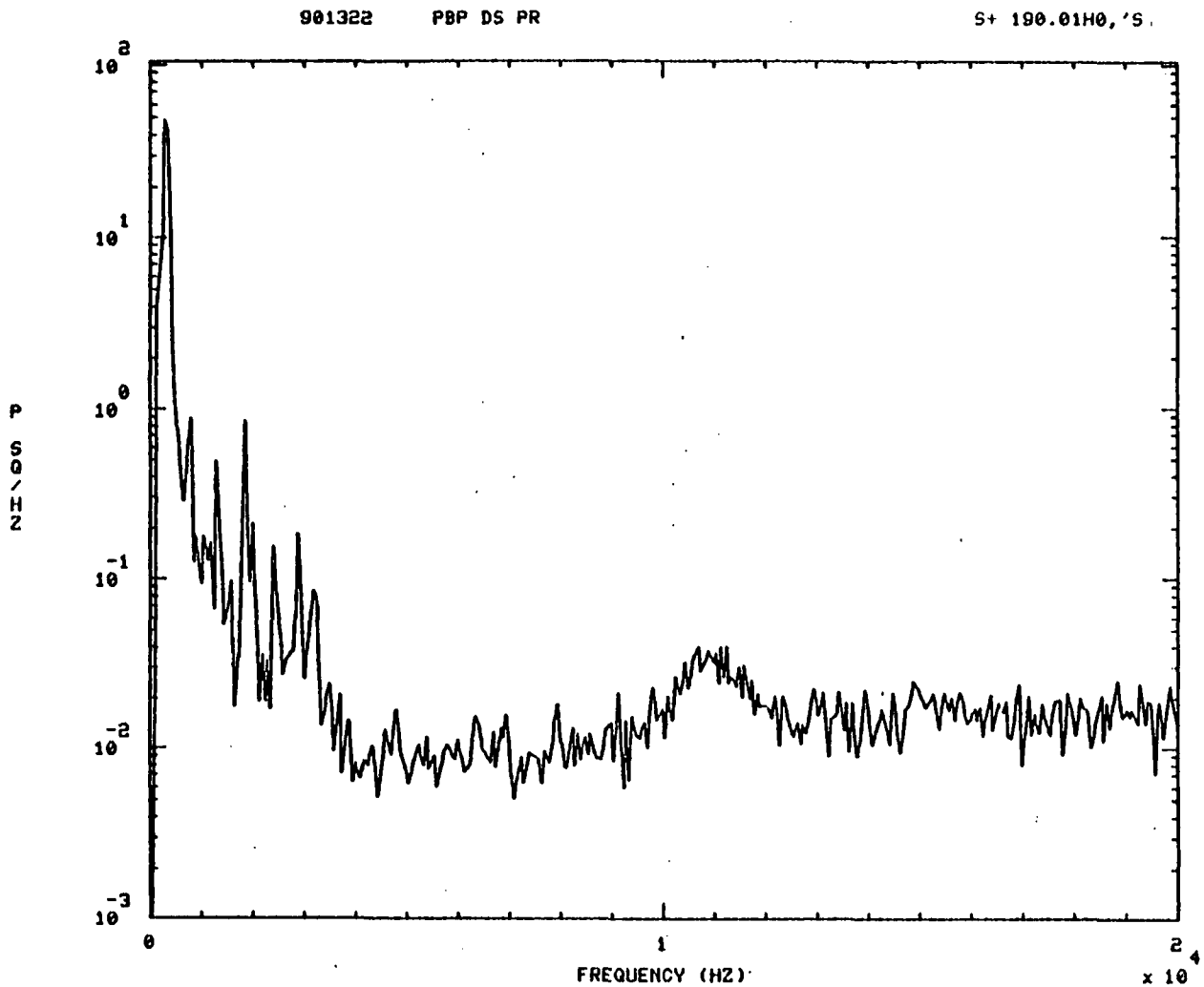

901322 MCC HOT GAS IN PR
S+ 230.01H0.'6
P
S
Q
/
H
Z
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
4
FREQUENCY (HZ)
x 10

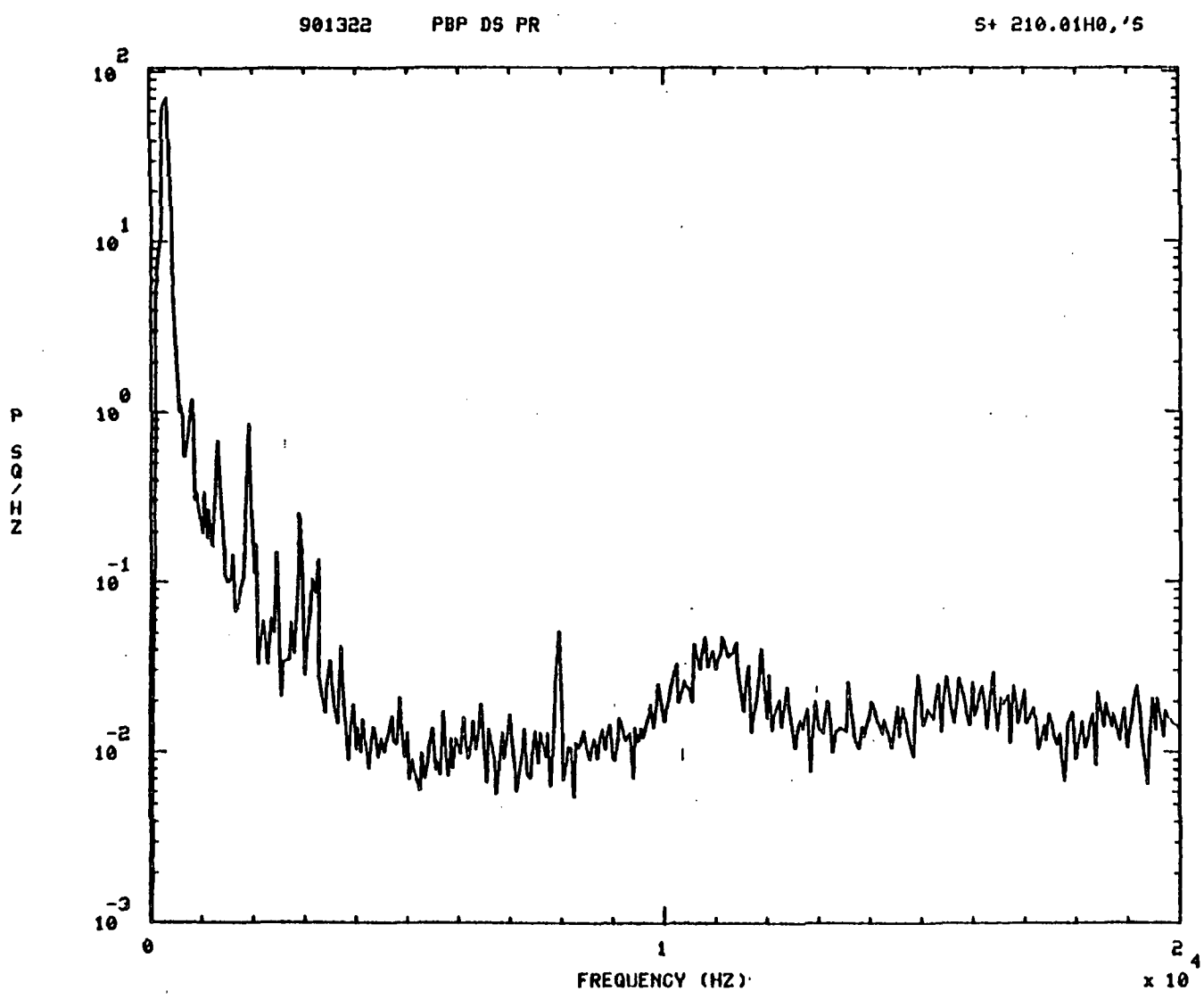

901322 PBP DS PR
S+ 6.01H0,'S
P S Q / H Z
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4

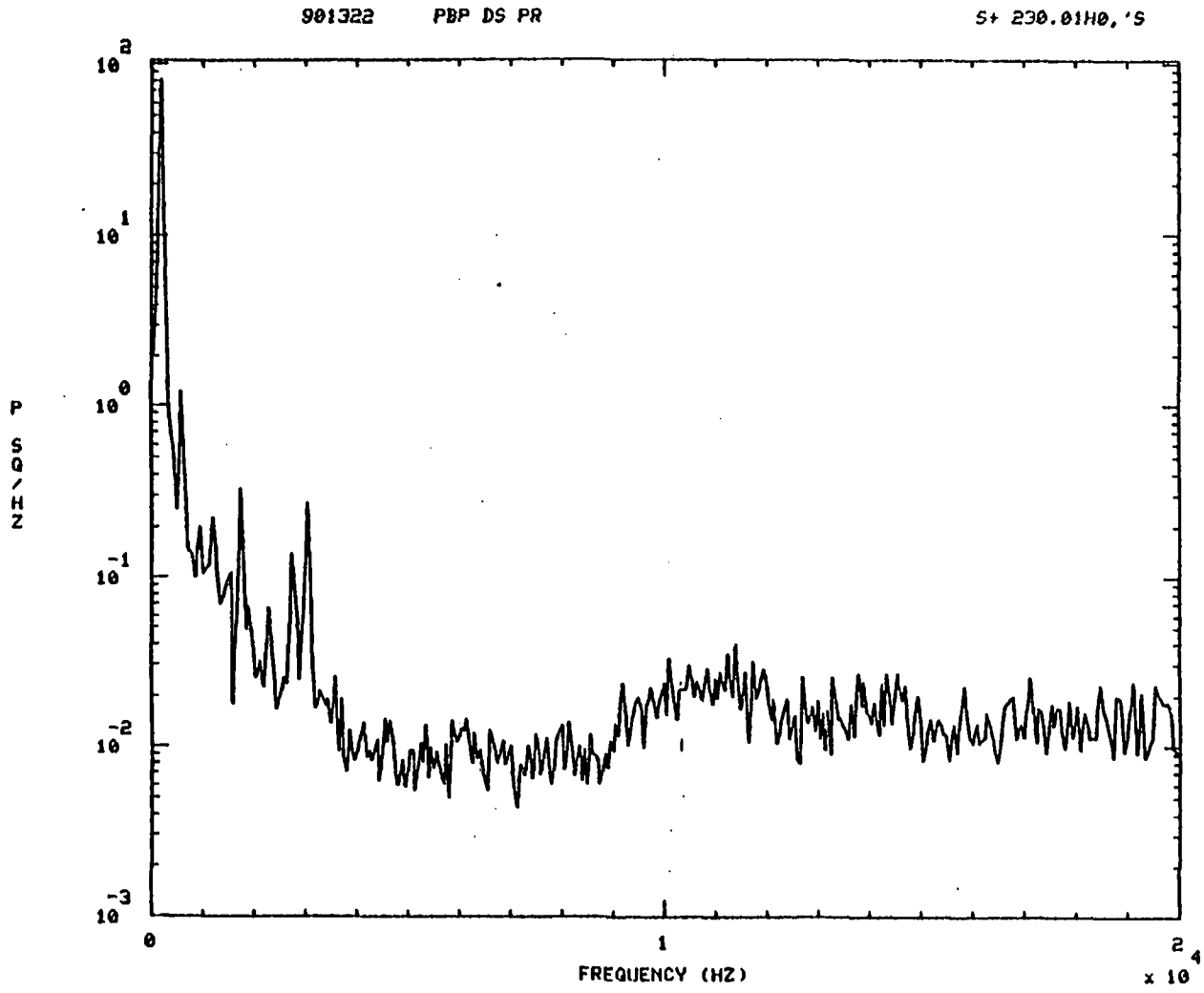

901322 PBP DS PR
S+ 130.01H0,'S
P SQ/HZ
10^3
10^2
10^1
10^0
10^-1
10^-2
0
1
2
FREQUENCY (HZ)
x 10^4

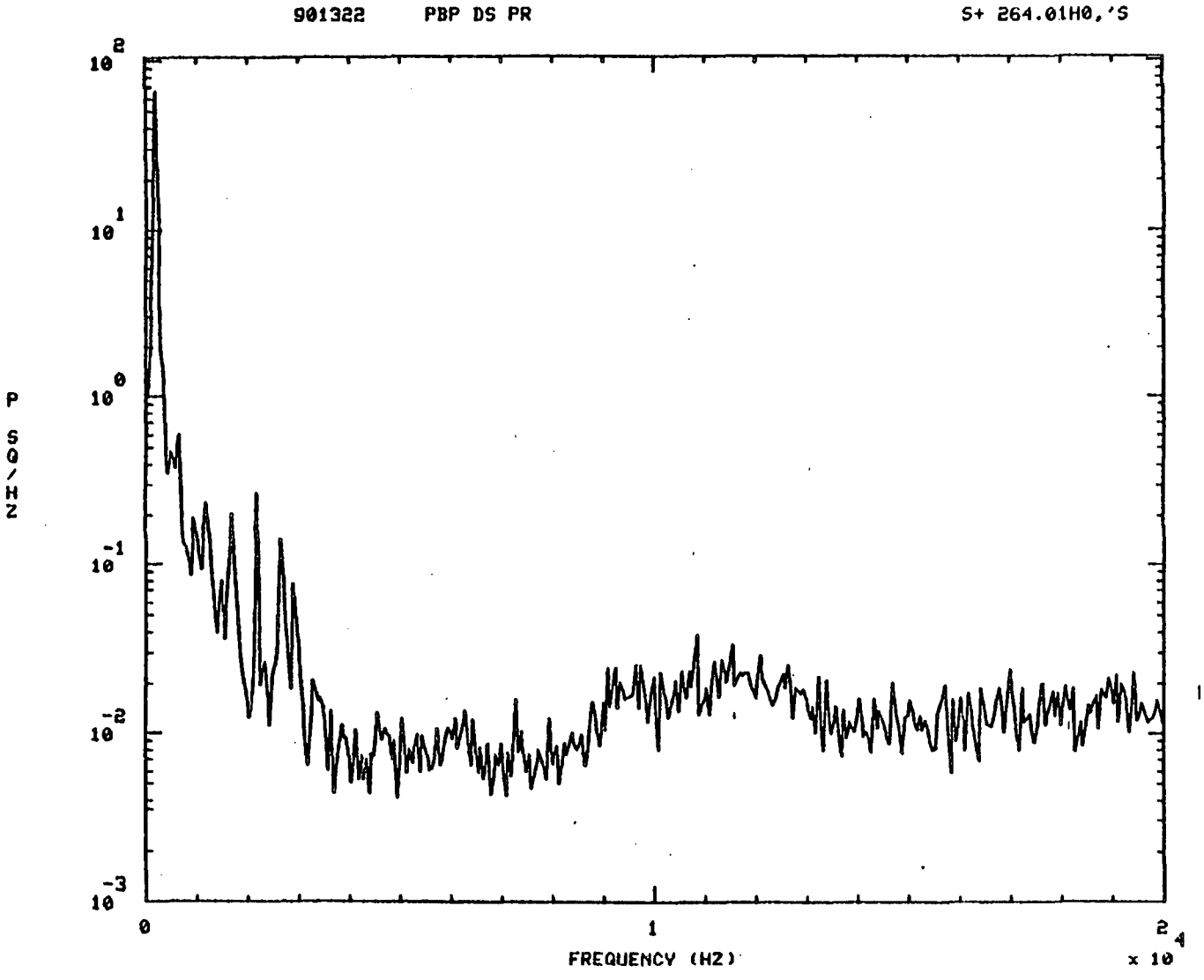

901322 PBP DS PR
S+ 150.01H0,'S
P S Q \ H Z
10^3
10^2
10^1
10^0
10^-1
10^-2
0
1
2
FREQUENCY (HZ)
x 10^4

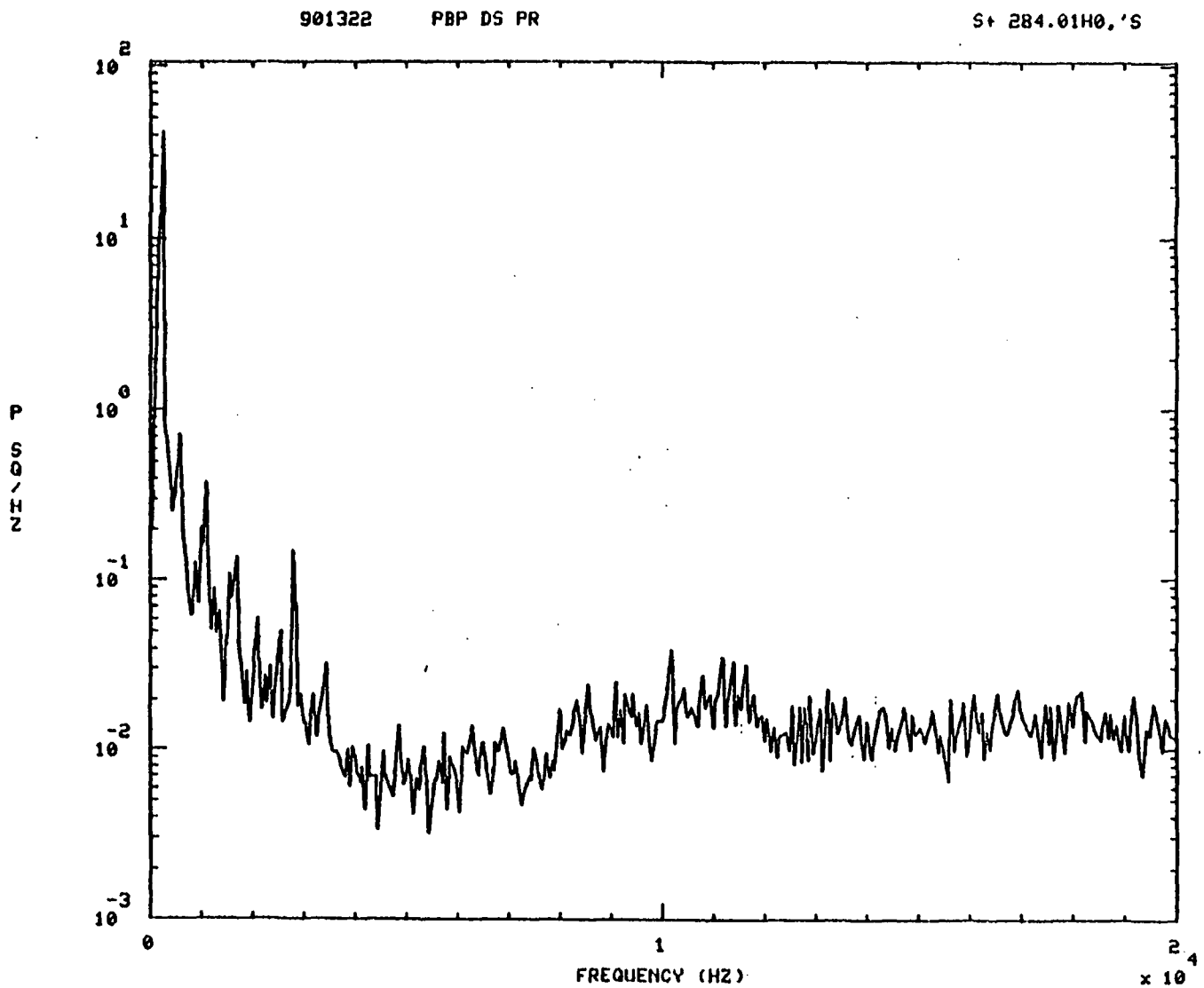

901322 PBP DS PR
S+ 170.01H0,'S
P SQ\HZ
10^3
10^2
10^1
10^0
10^-1
10^-2
0
1
2
FREQUENCY (HZ)
x 10^4

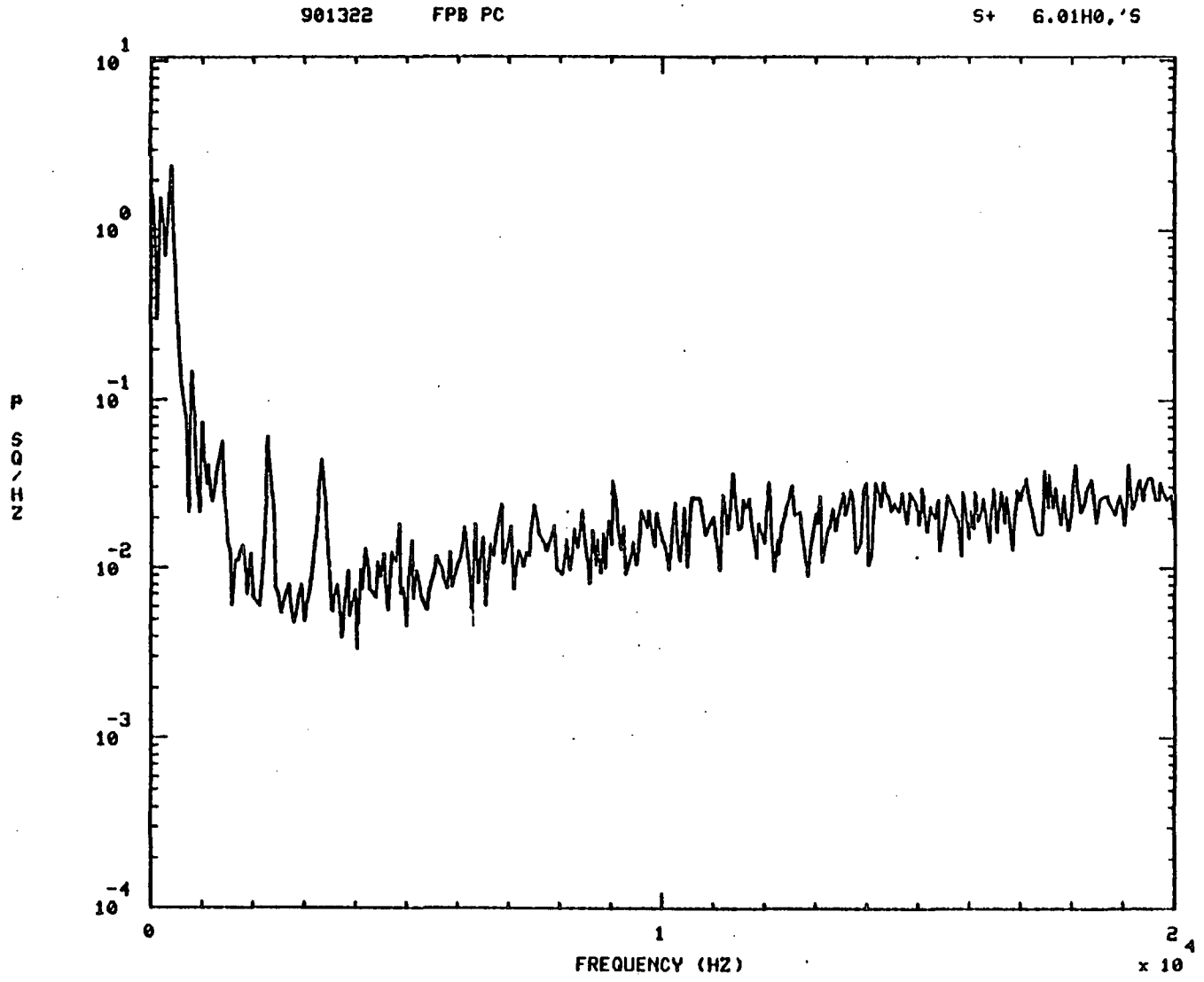

901322 PBP DS PR
S+ 190.01H0,'S
P
S
Q
/
H
Z
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4

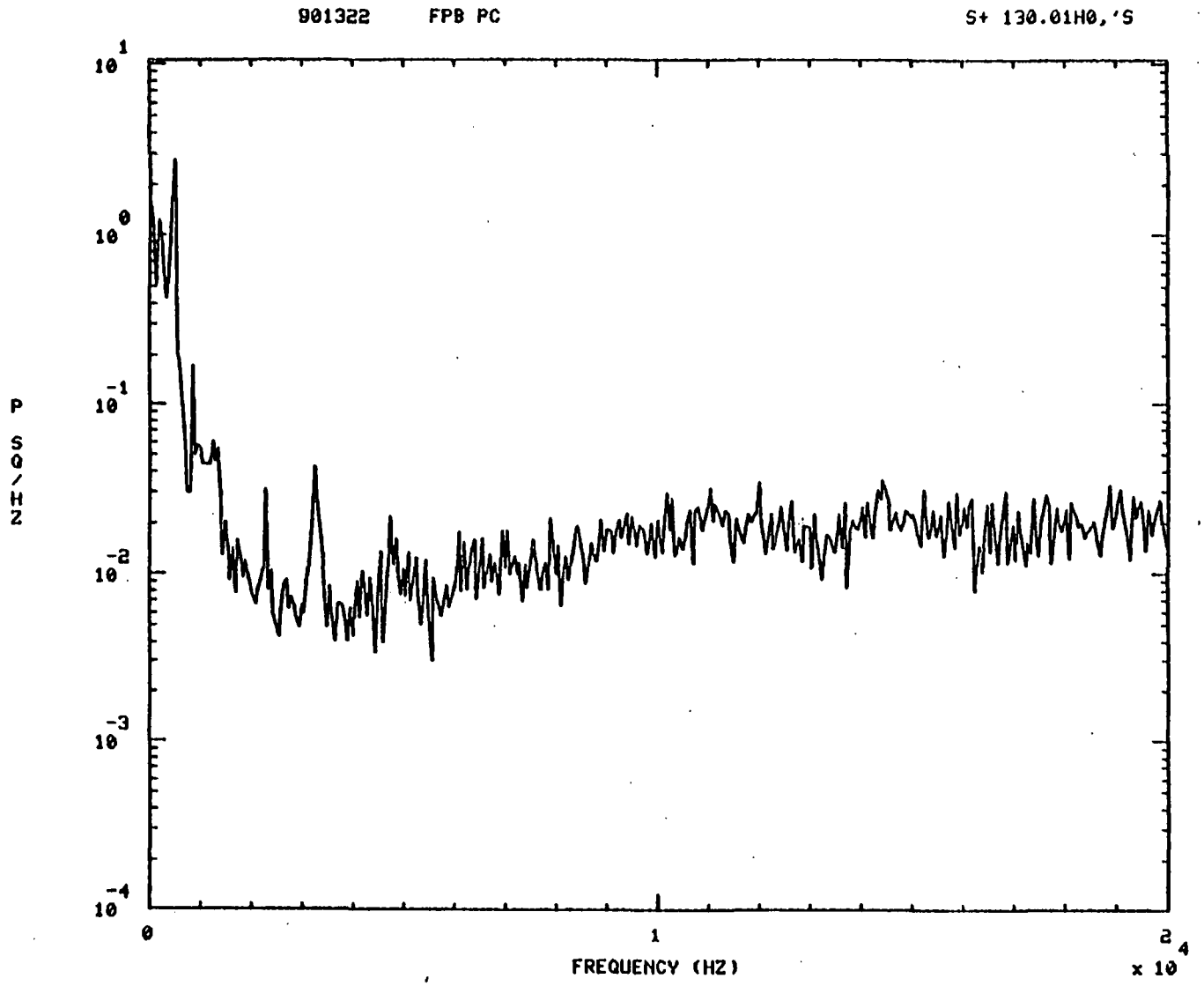

901322 PBP DS PR
S+ 210.01H0,'S
P SQ/HZ
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4

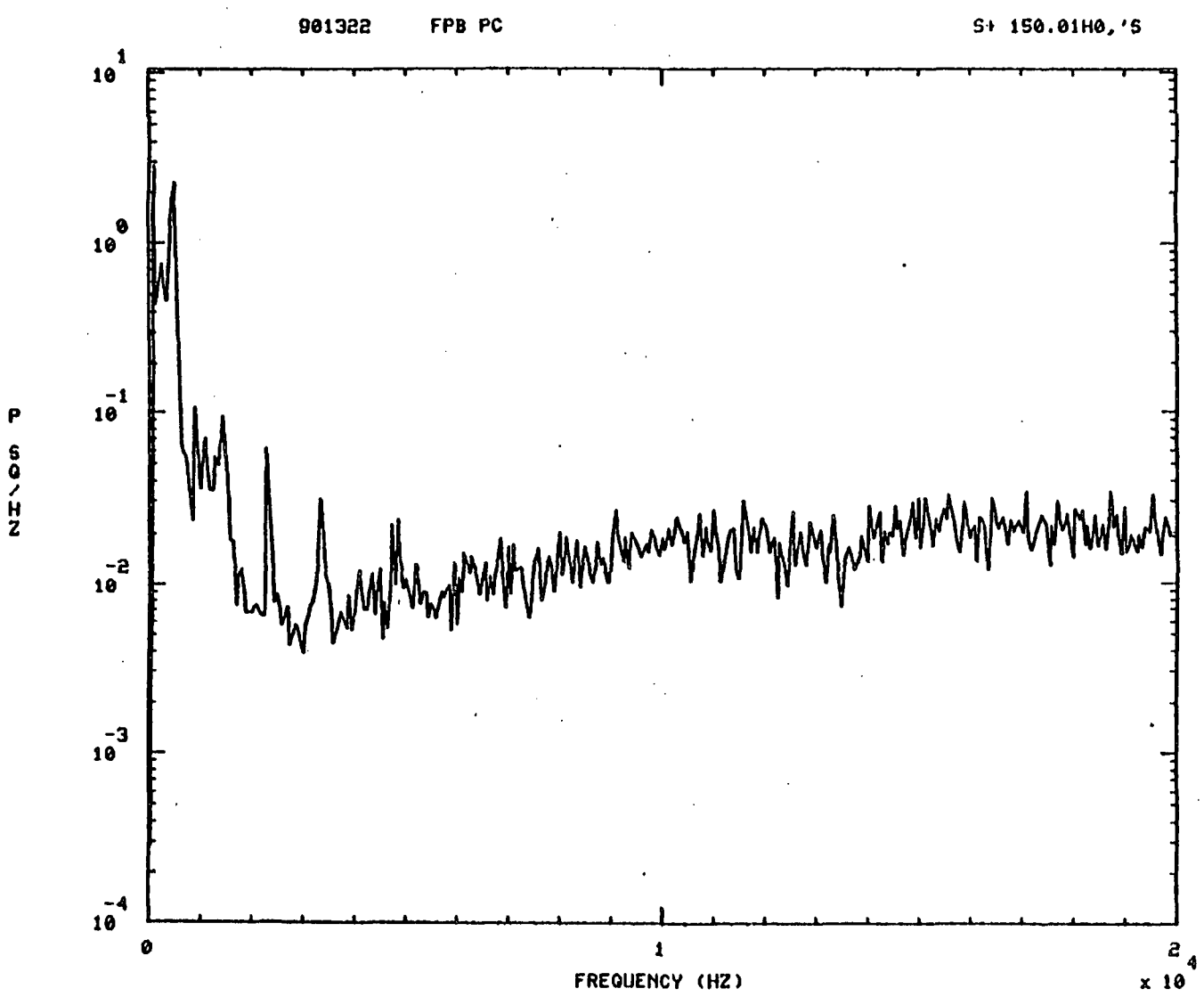

901322 PBP DS PR
S+ 230.01H0,'S
P S Q \ H Z
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4

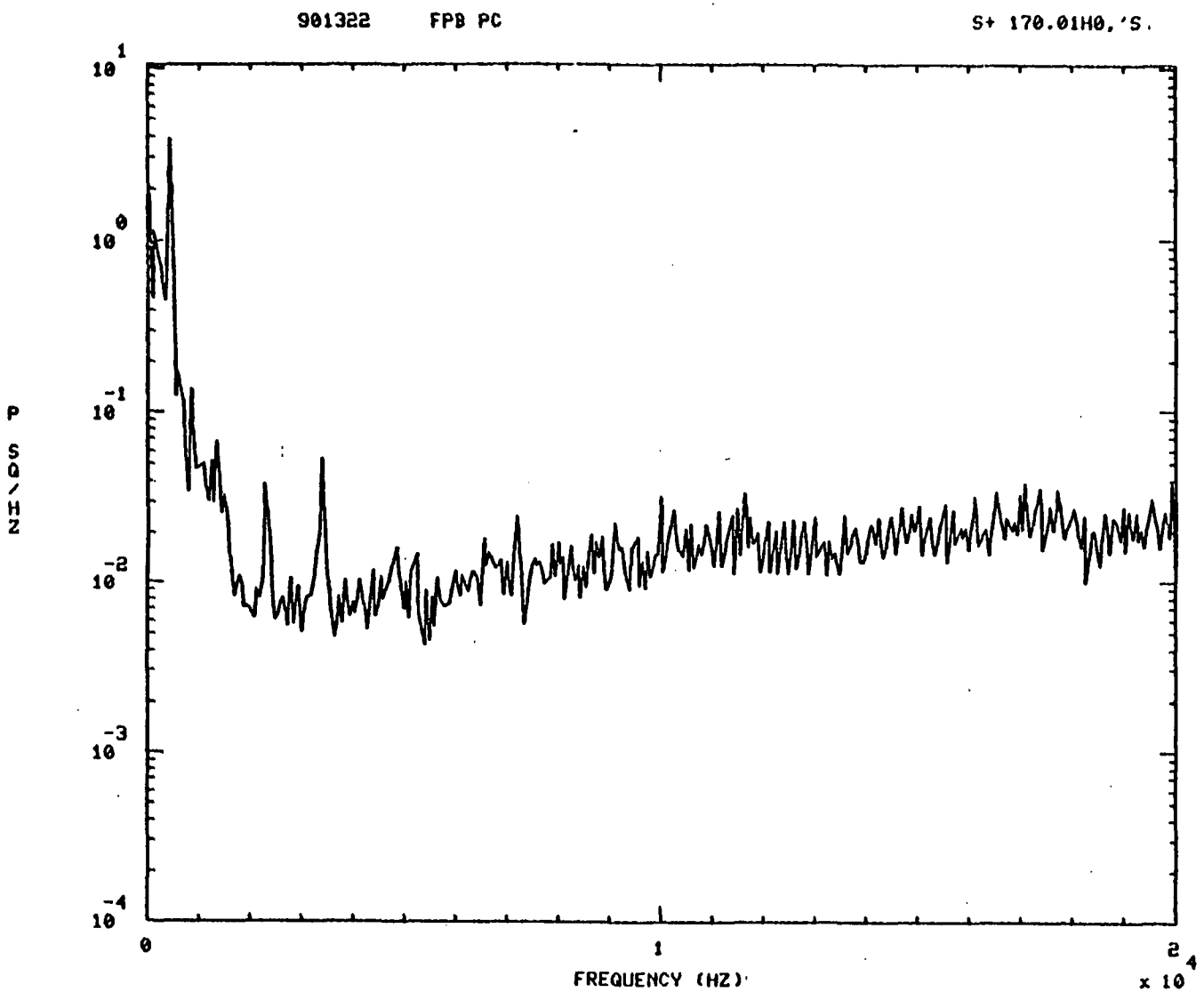

901322 PBP DS PR
S+ 264.01H0,'S
P SQ/HZ
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4

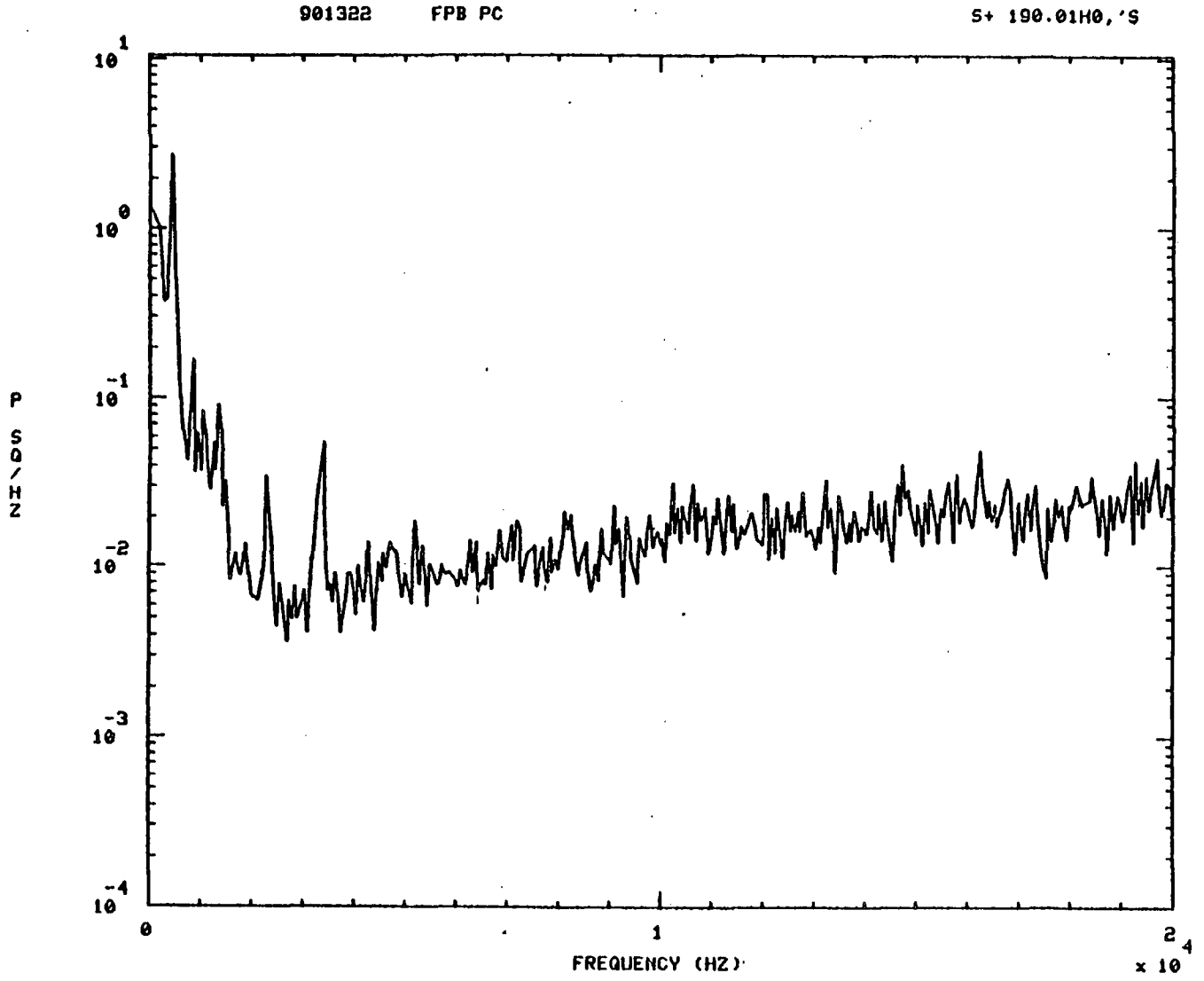

901322 PBP DS PR
S+ 284.01H0,'S
P S Q/H Z
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
1
2
FREQUENCY (HZ)
x 10^4

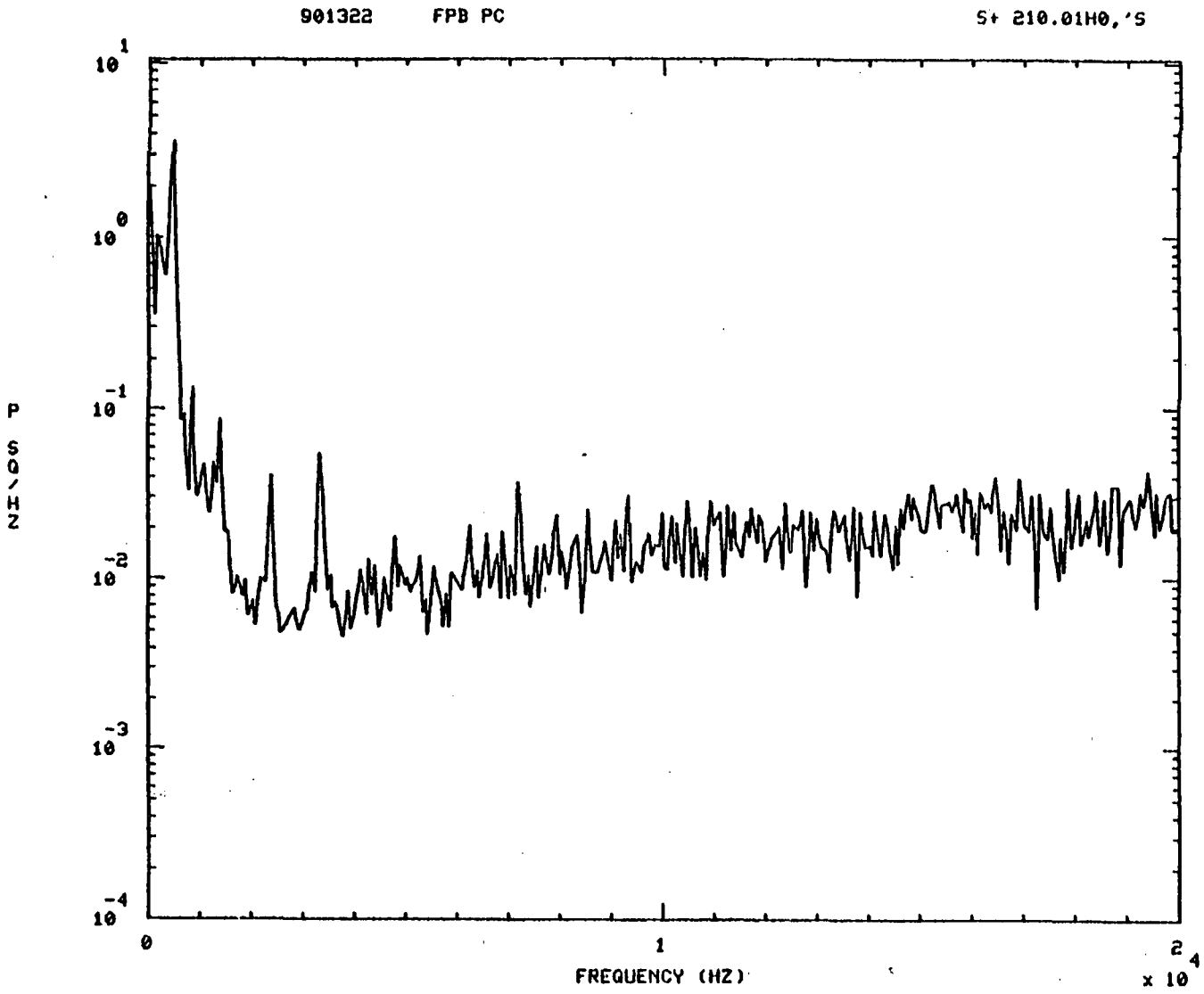

901322 FPB PC
S+ 6.01H0,'S
P SQ\HZ
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
FREQUENCY (HZ)
x 10^4

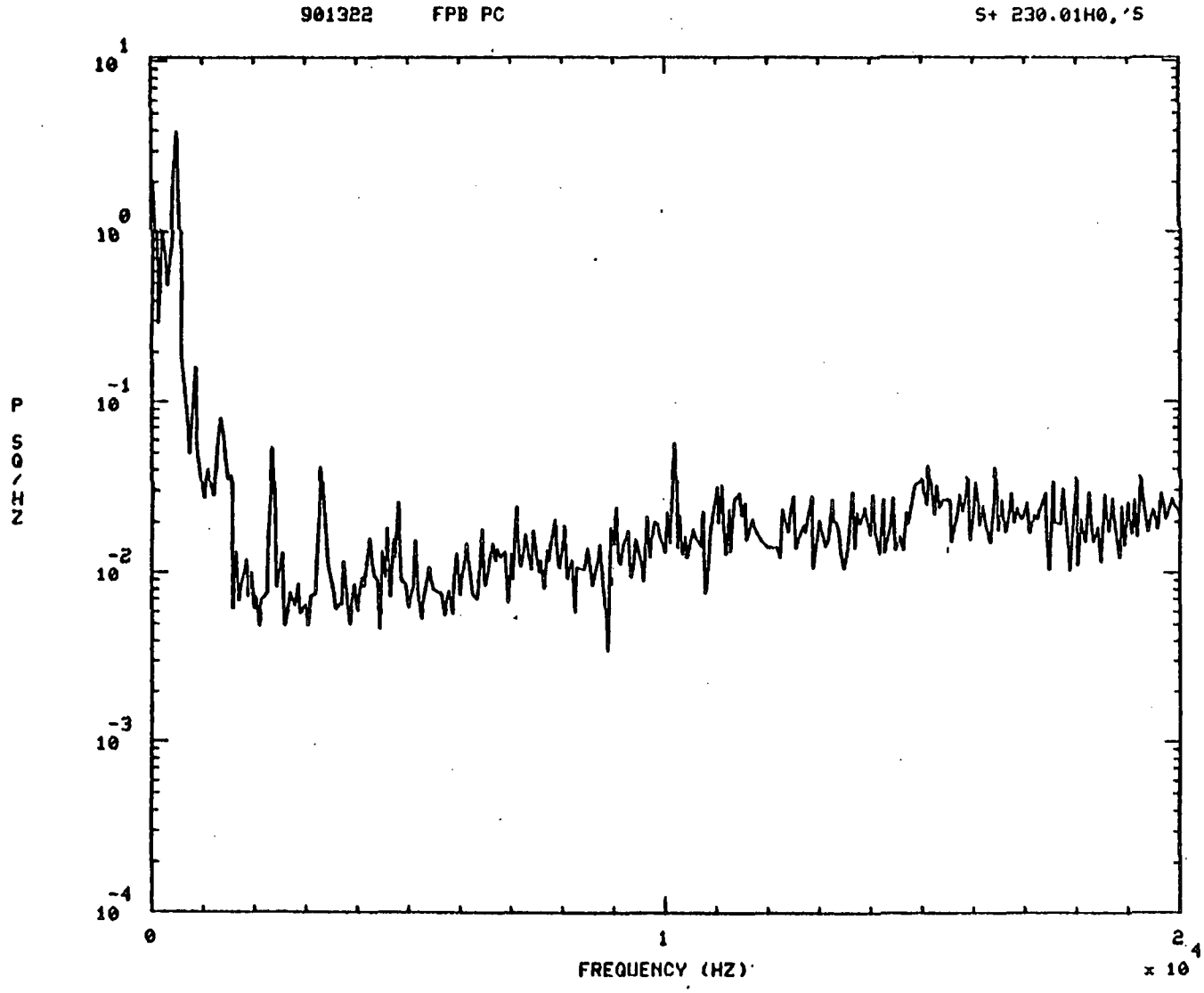

901322 FPB PC
S+ 130.01H0,'S
P SQ/HZ
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
FREQUENCY (HZ)
x 10^4

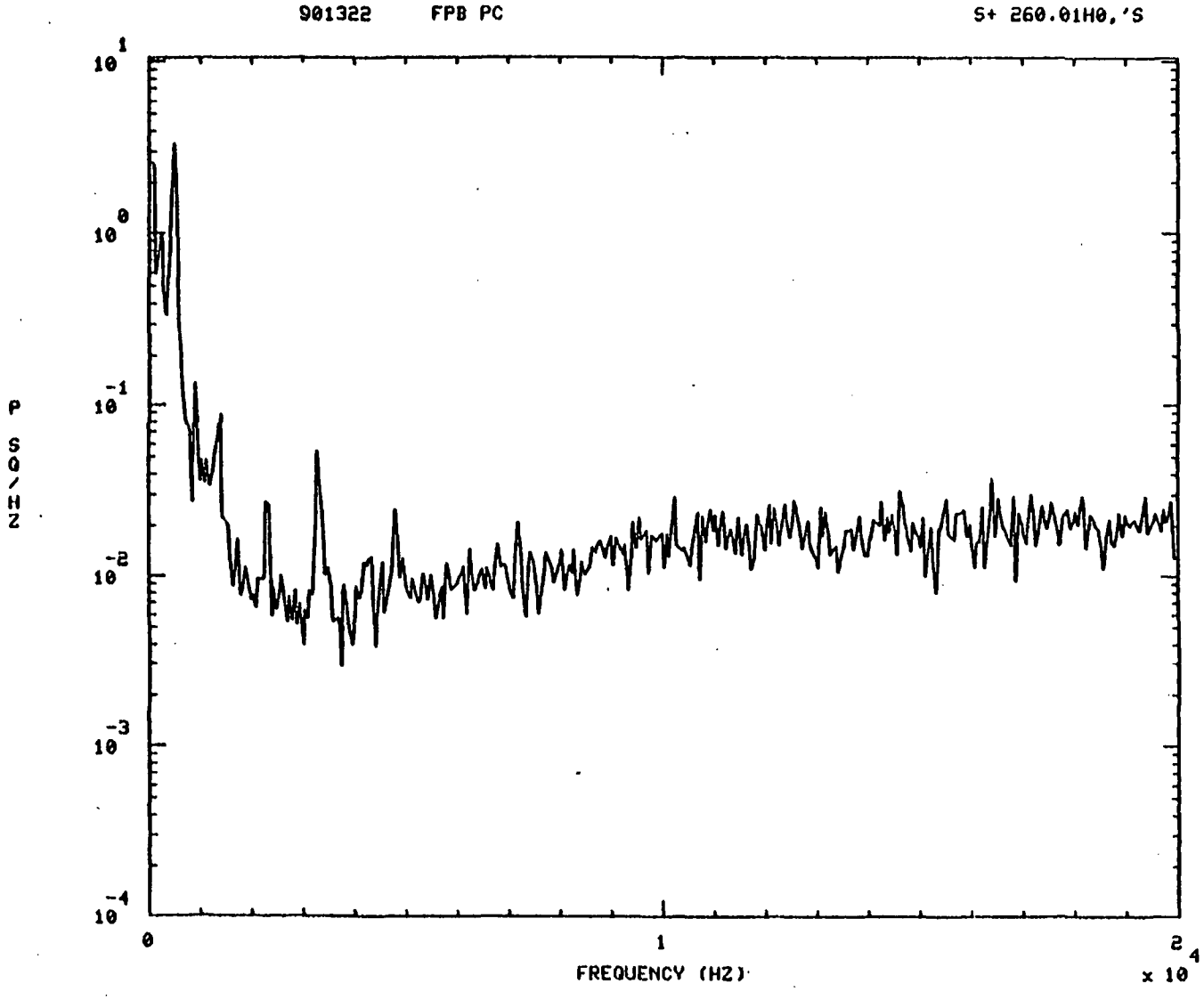

901322 FPB PC
S+ 150.01H0,'S
P SQ/HZ
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
4
FREQUENCY (HZ)
x 10

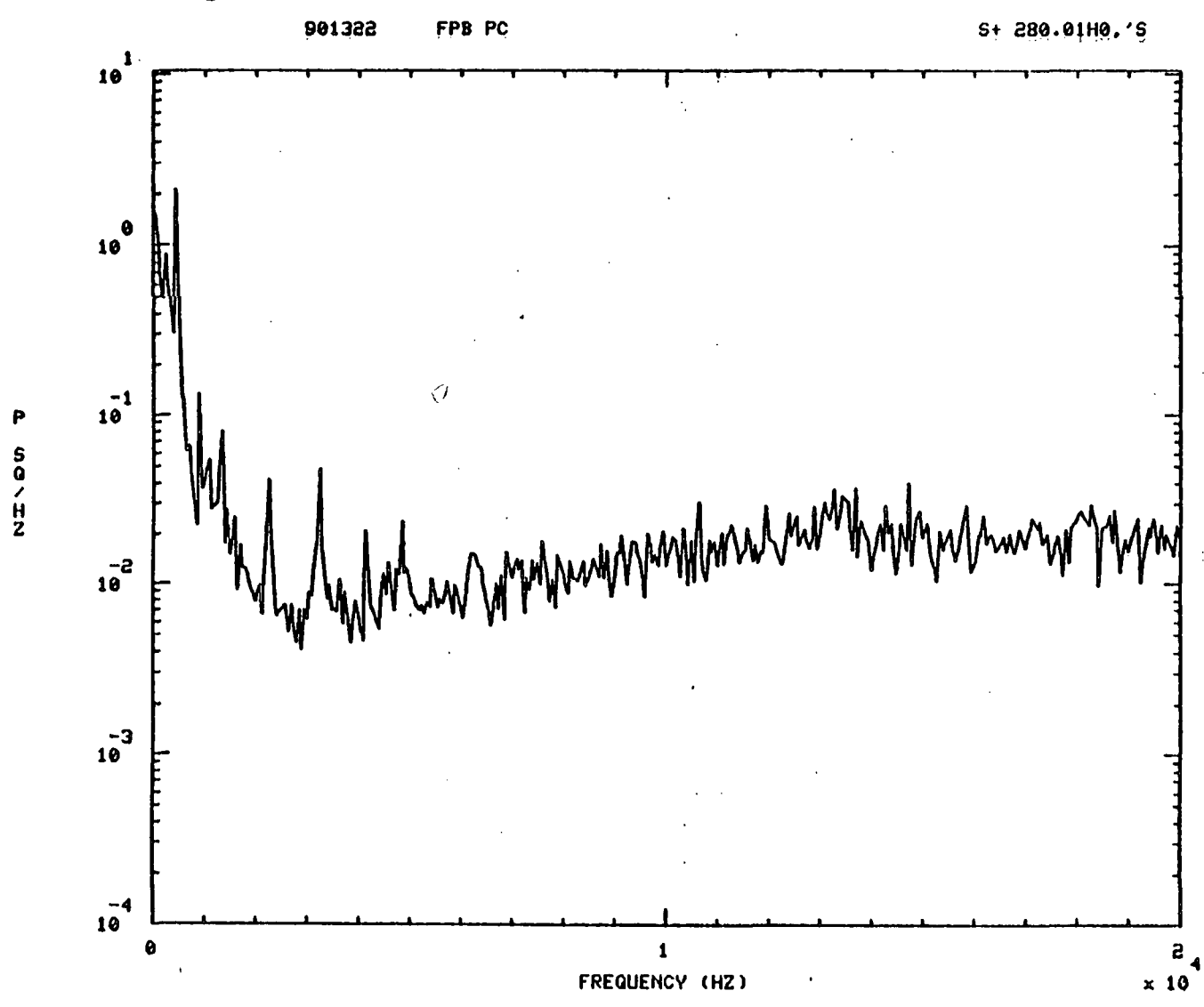

901322 FPB PC
S+ 170.01H0,'S.
P SQ\HZ
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
FREQUENCY (HZ)
x 10^4

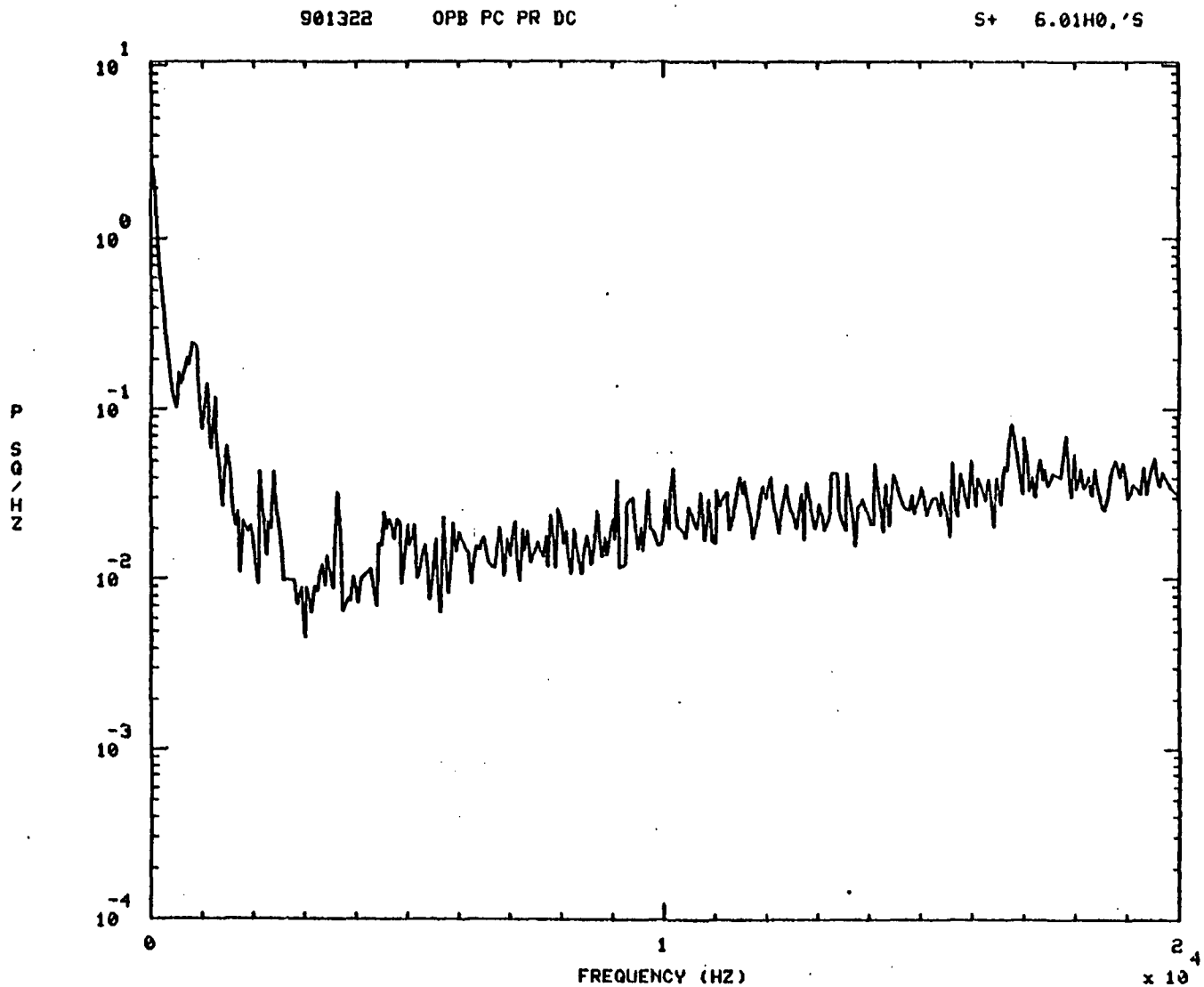

901322 FPB PC
S+ 190.01H0,'S
P
S
Q
/
H
Z
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
FREQUENCY (HZ)
x 10^4

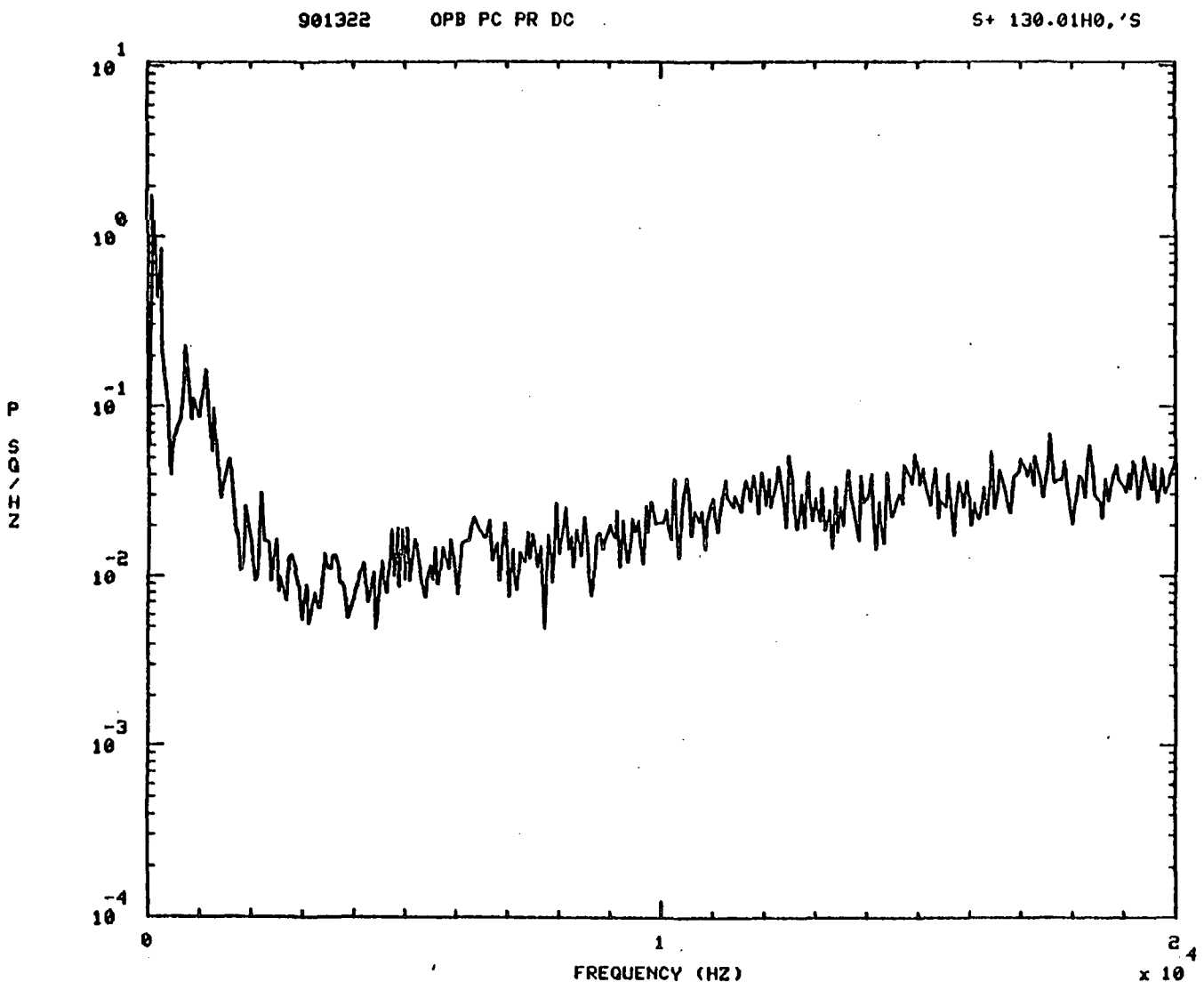

901322 FPB PC
S+ 210.01H0,'S
P S Q / H Z
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
FREQUENCY (HZ)
x 10^4

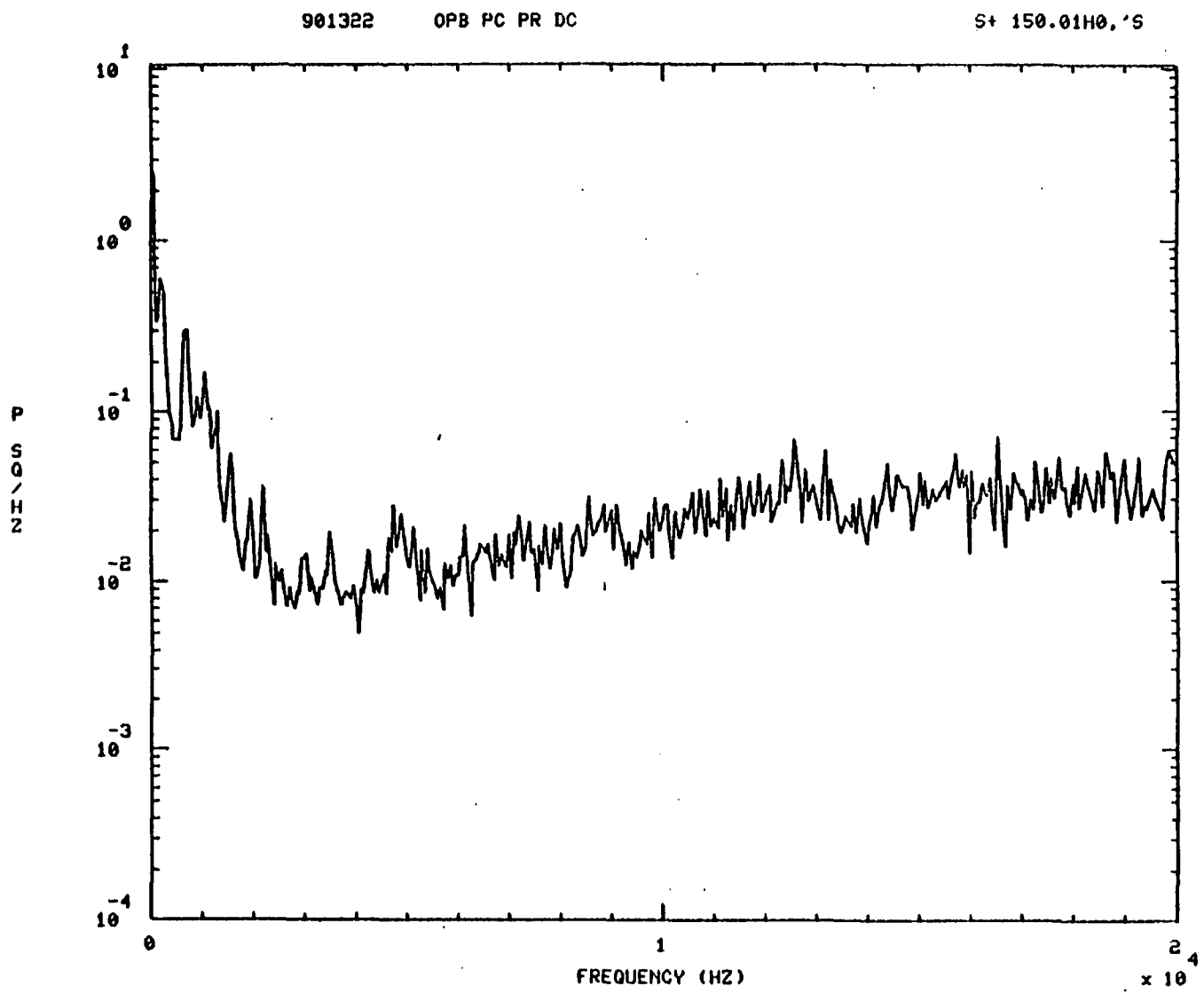

901322 FPB PC
S+ 230.01H0,'S
P SQ/HZ
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
FREQUENCY (HZ)
x 10^4

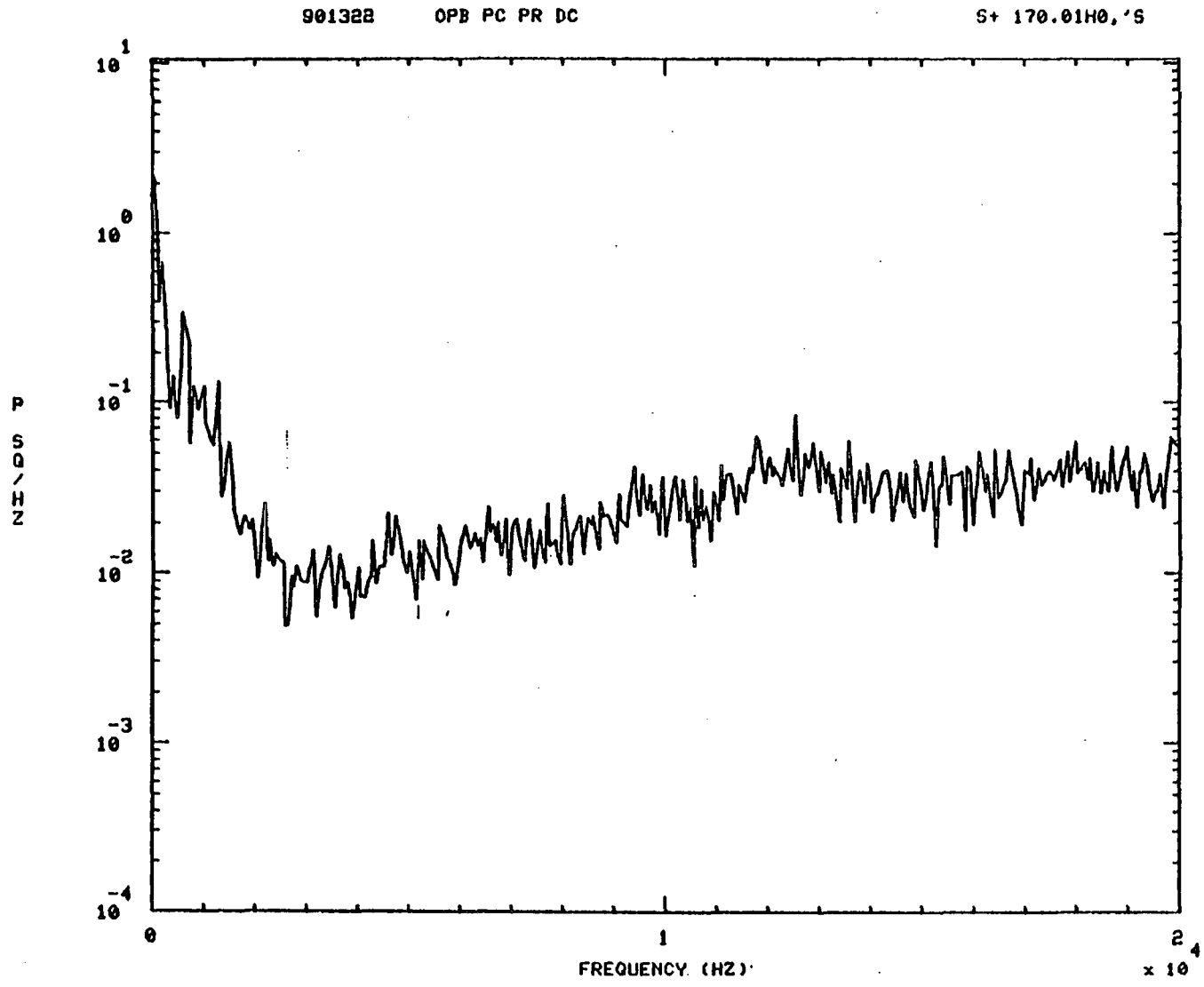

901322 FPB PC
S+ 260.01H0,'S
P SQ\HZ
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
FREQUENCY (HZ)
x 10^4

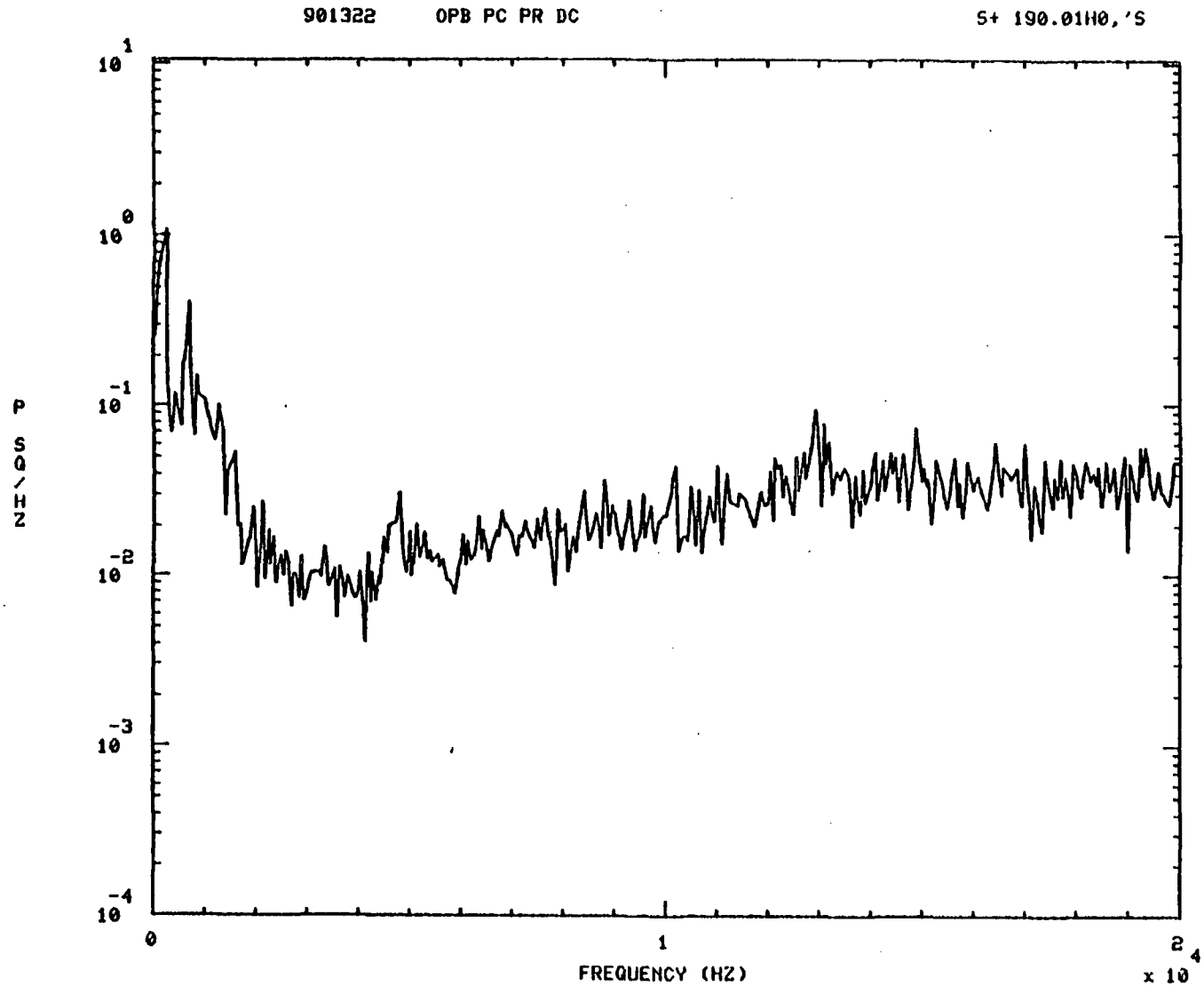

901322 FPB PC
S+ 280.01H0.'S
P S Q / H Z
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
FREQUENCY (HZ)
x 10^4

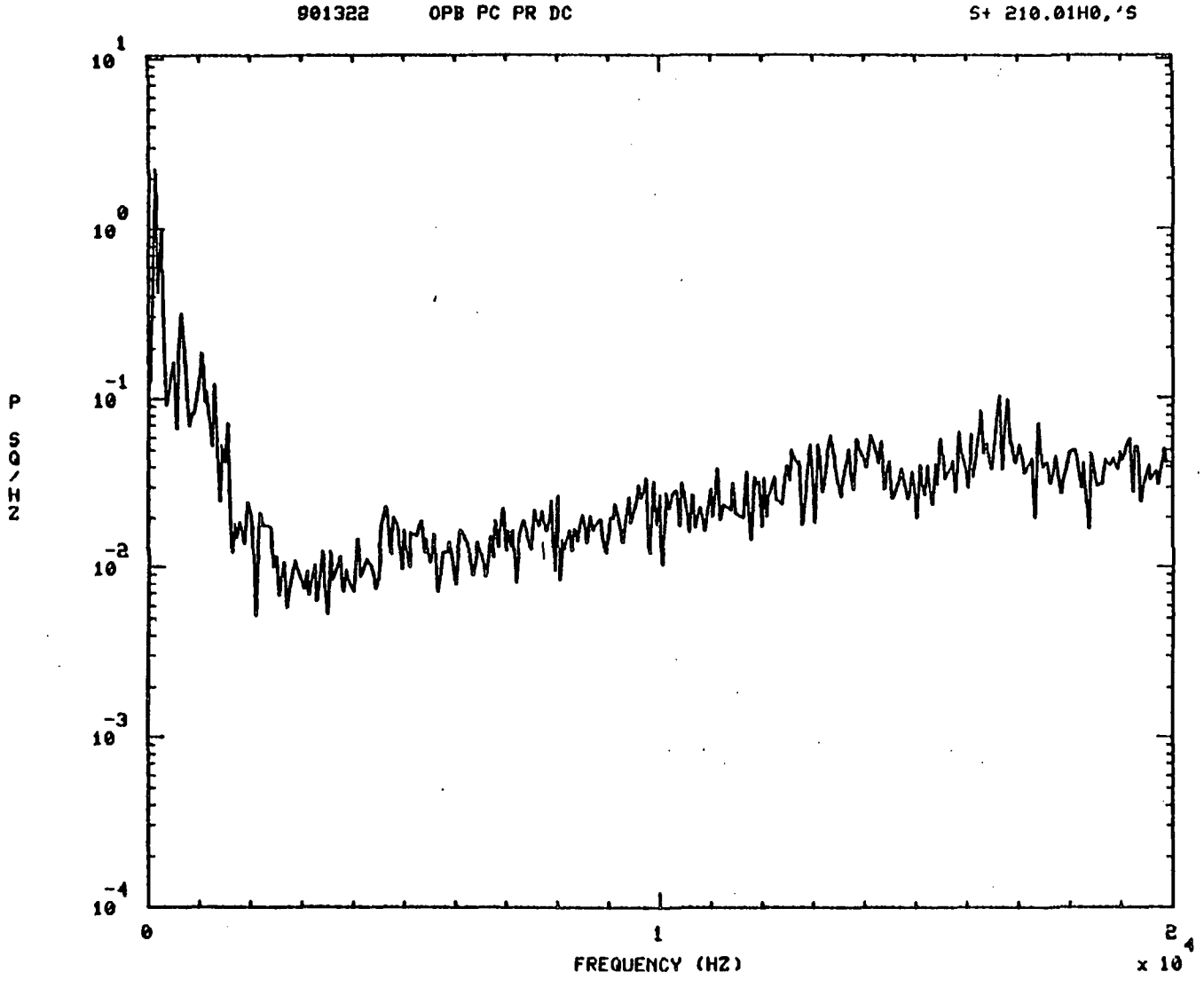

901322 OPB PC PR DC
S+ 6.01H0.'S
P S Q / H Z
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
4
x 10
FREQUENCY (HZ)

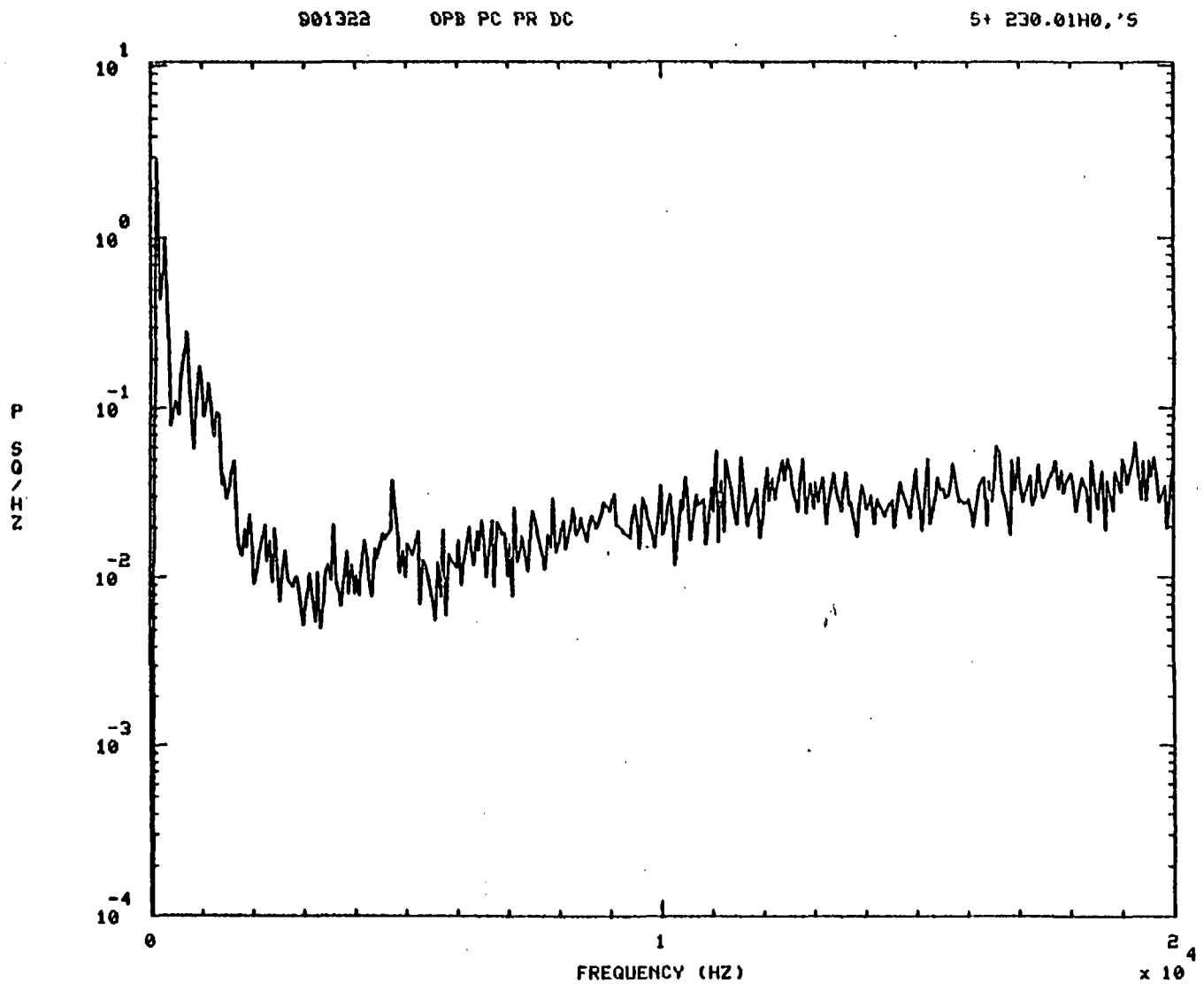

901322 OPB PC PR DC
S+ 130.01H0,'S
P SQ\HZ
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
FREQUENCY (HZ)
x 10^4

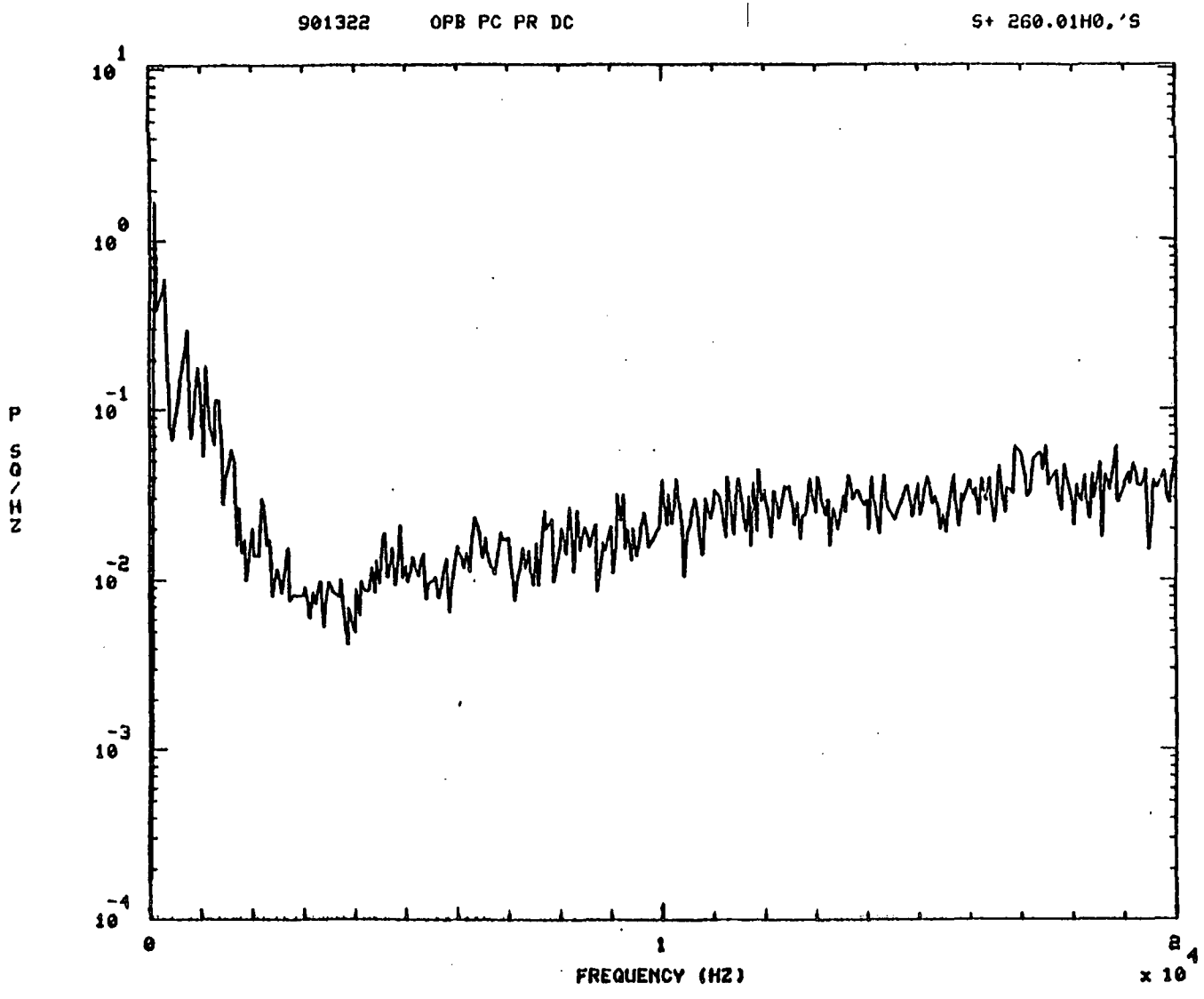

901322 OPB PC PR DC
S+ 150.01H0,'S
P SQ\H2
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
FREQUENCY (HZ)
x 10^4

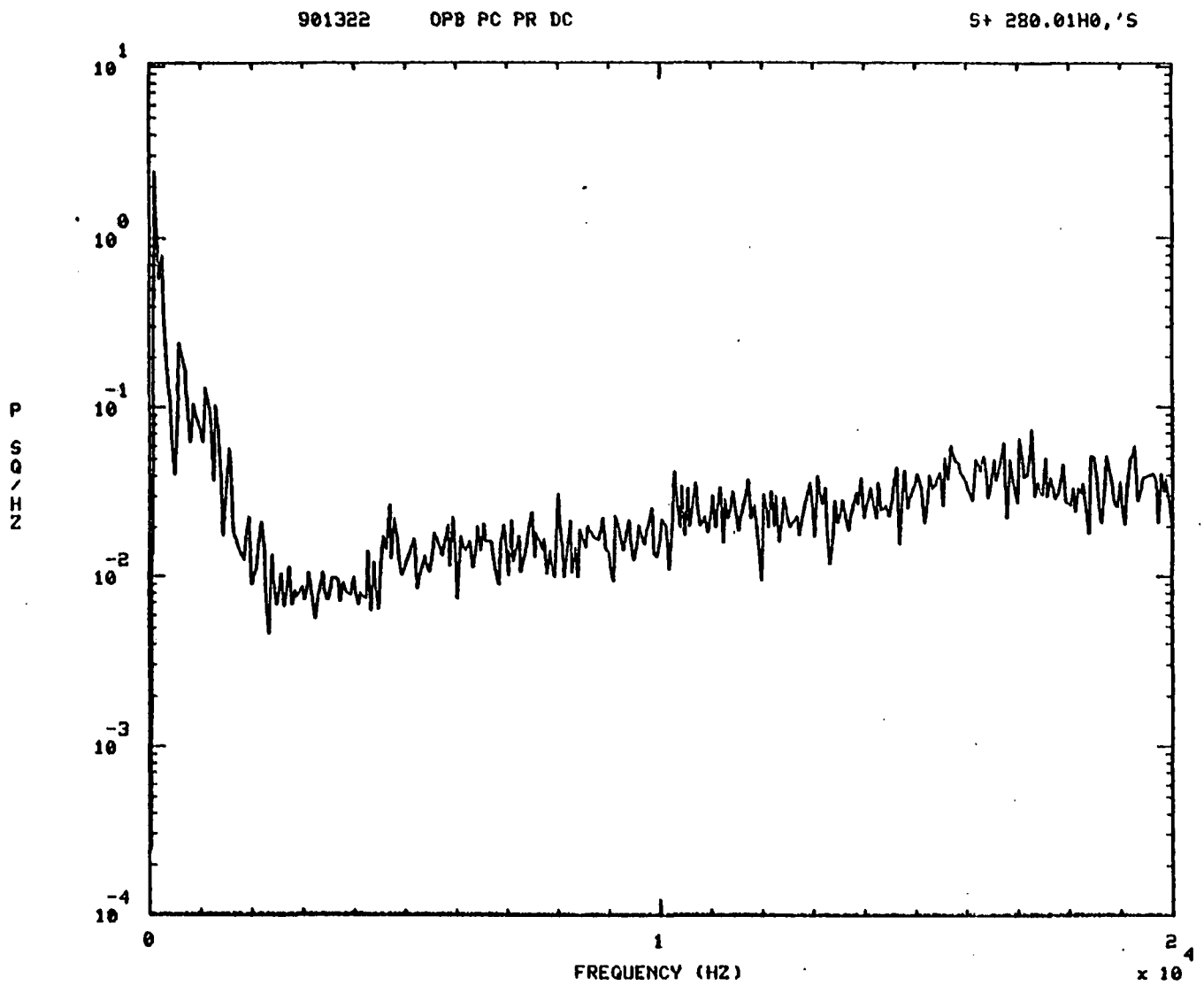

901328 OPB PC PR DC
S+ 170.01H0,'S
P SQ/HZ
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
FREQUENCY (HZ)
x 10^4

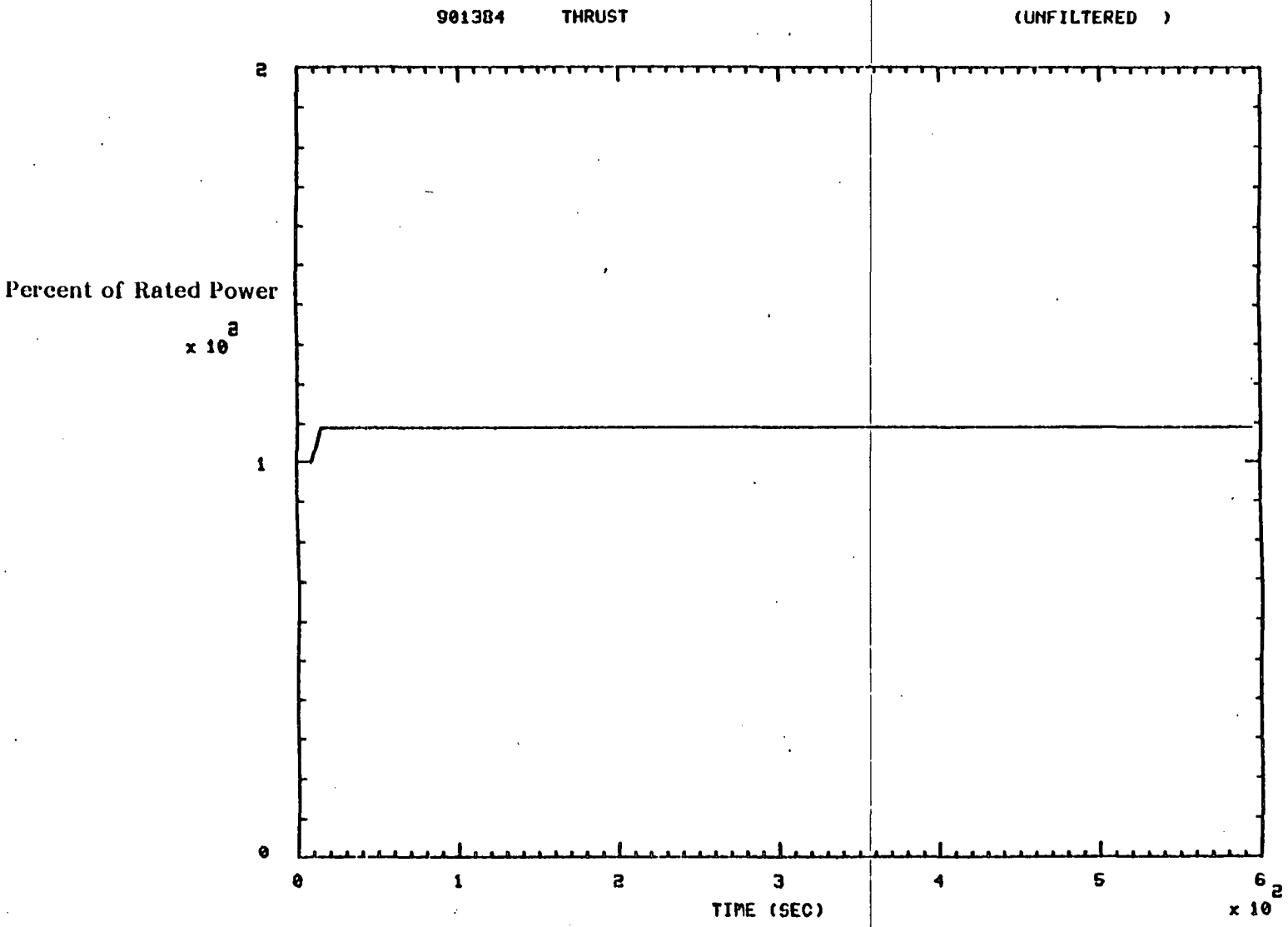

901322 OPB PC PR DC
S+ 190.01H0,'S
P SQ/HZ
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
FREQUENCY (HZ)
x 10^4

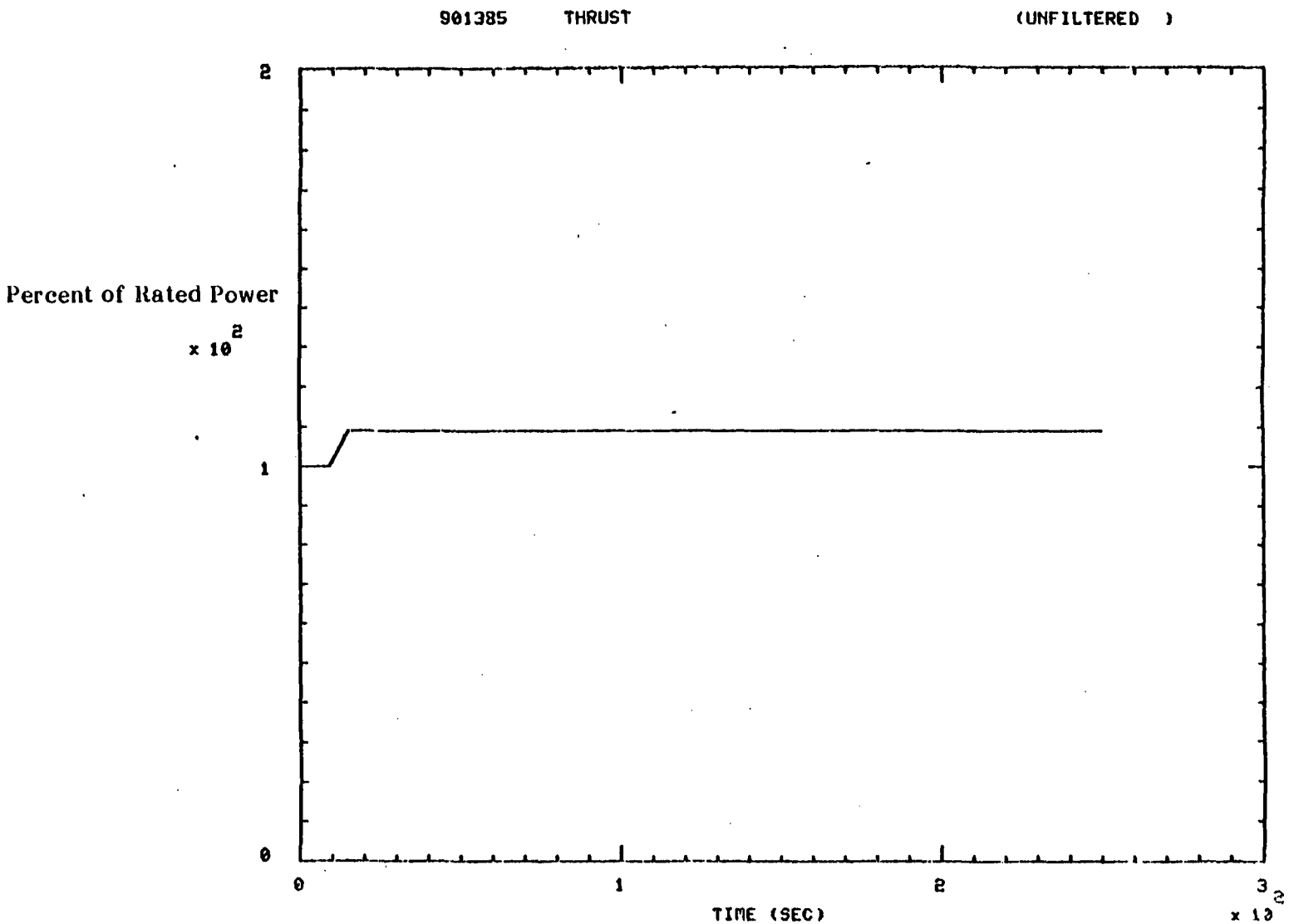

901322 OPB PC PR DC
S+ 210.01H0,'S
P SQ\HZ
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
FREQUENCY (HZ)
x 10^4

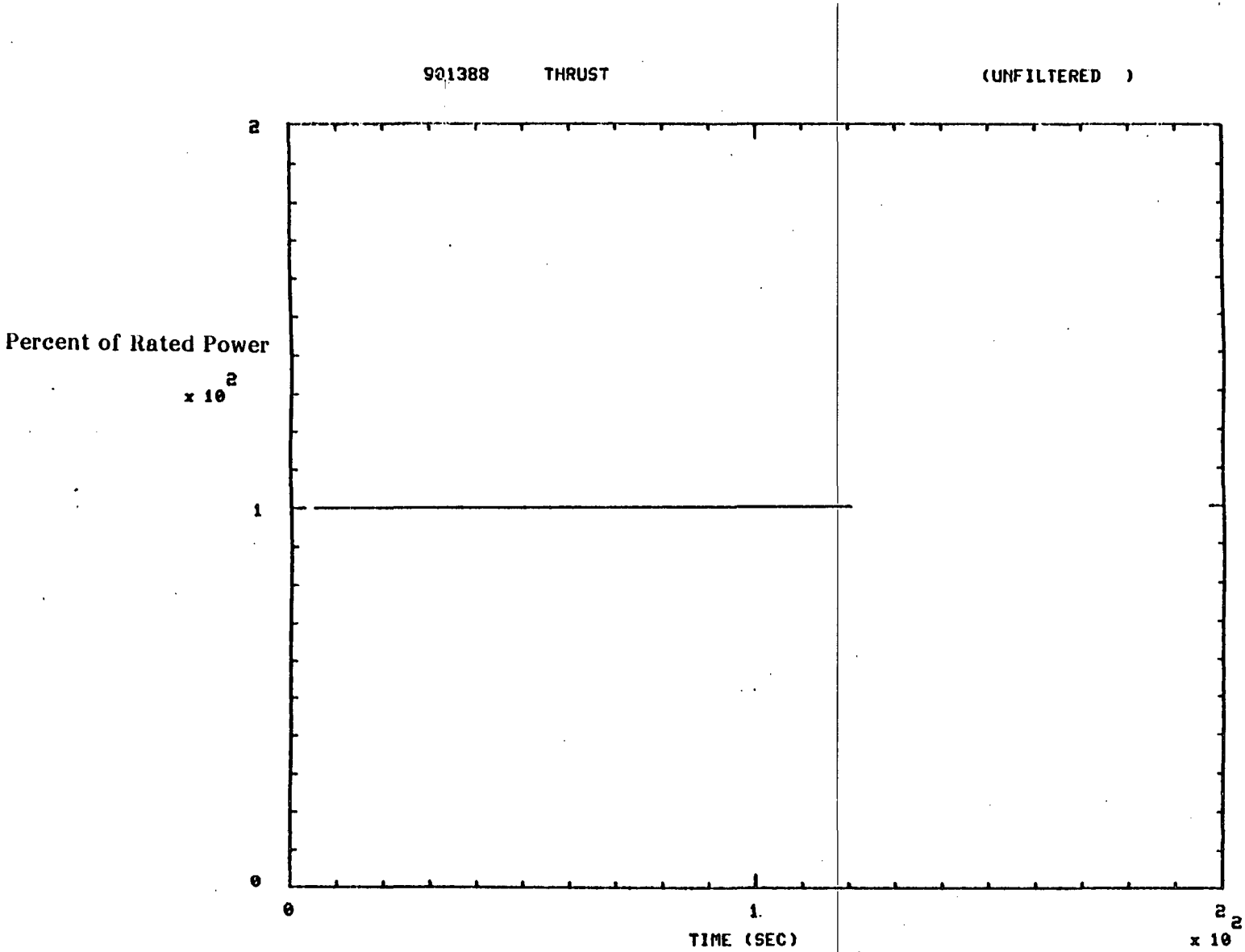

901322 OPB PC PR DC
5+ 230.01H0,'S
P S0/HZ
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
FREQUENCY (HZ)
x 10^4

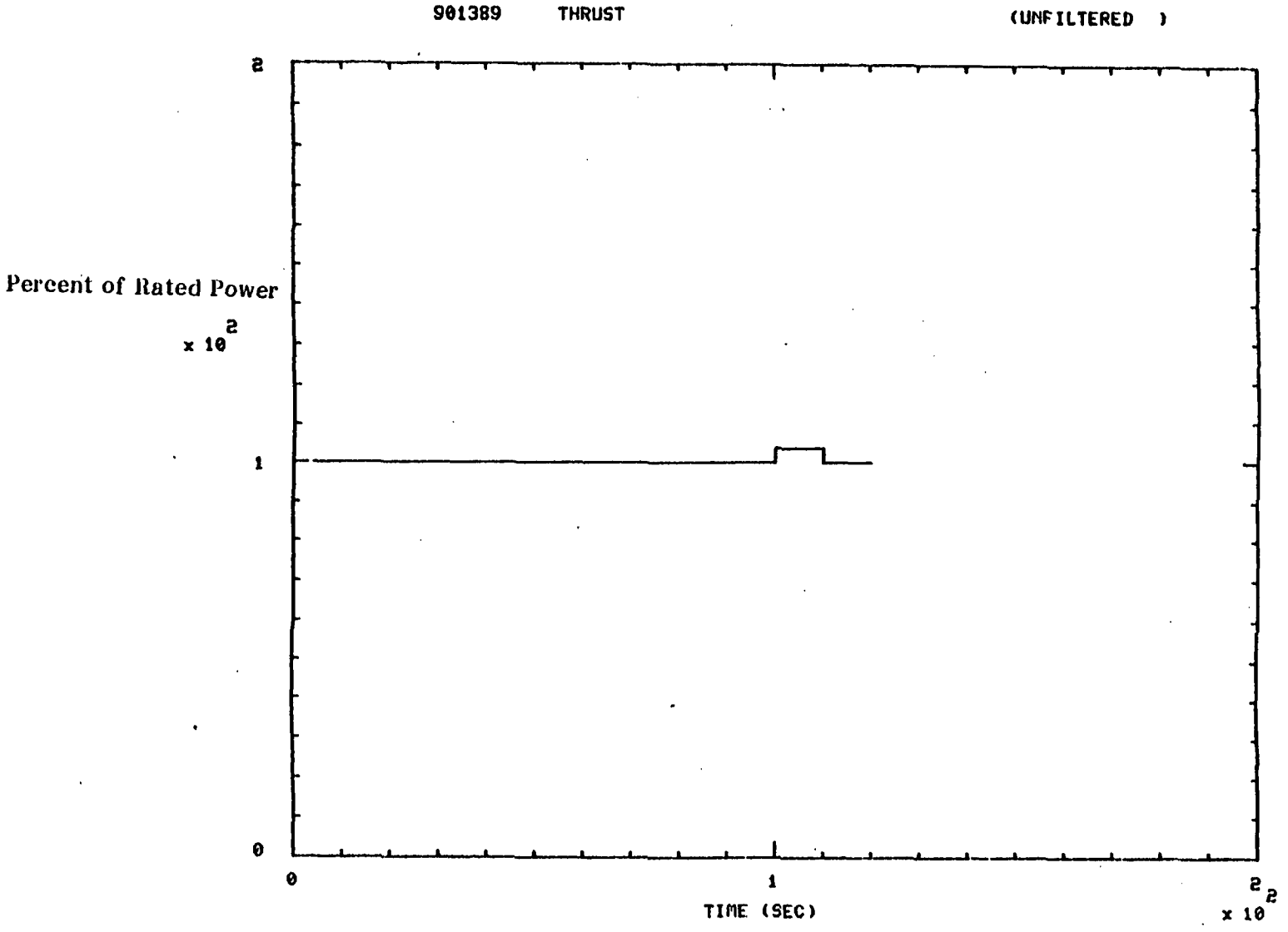

901322 OPB PC PR DC
S+ 260.01H0,'S
P SQ/HZ
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
FREQUENCY (HZ)
x 10^4

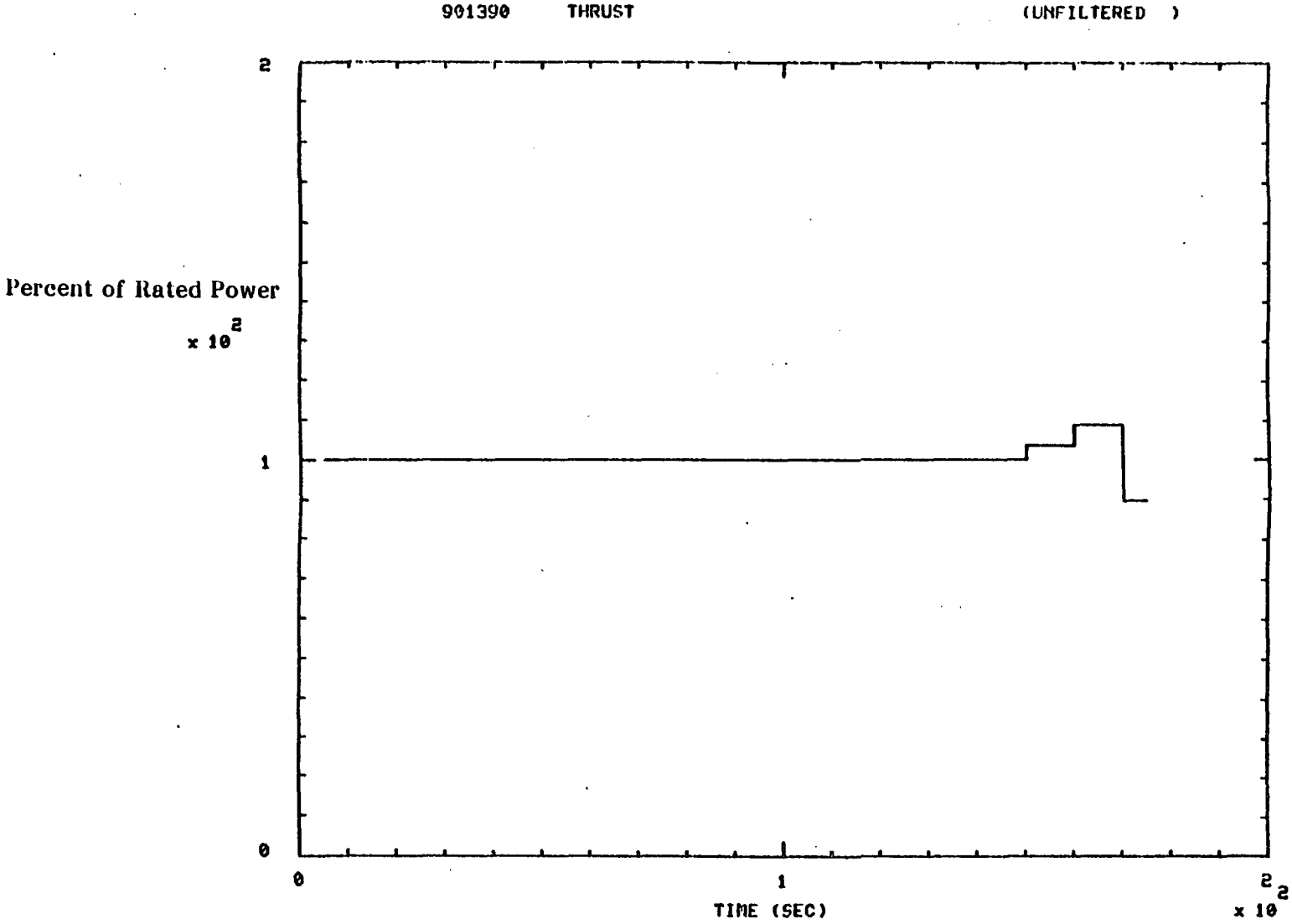

901322 OPB PC PR DC
S+ 280.01H0,'S
P S Q \ H Z
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
FREQUENCY (HZ)
x 10^4

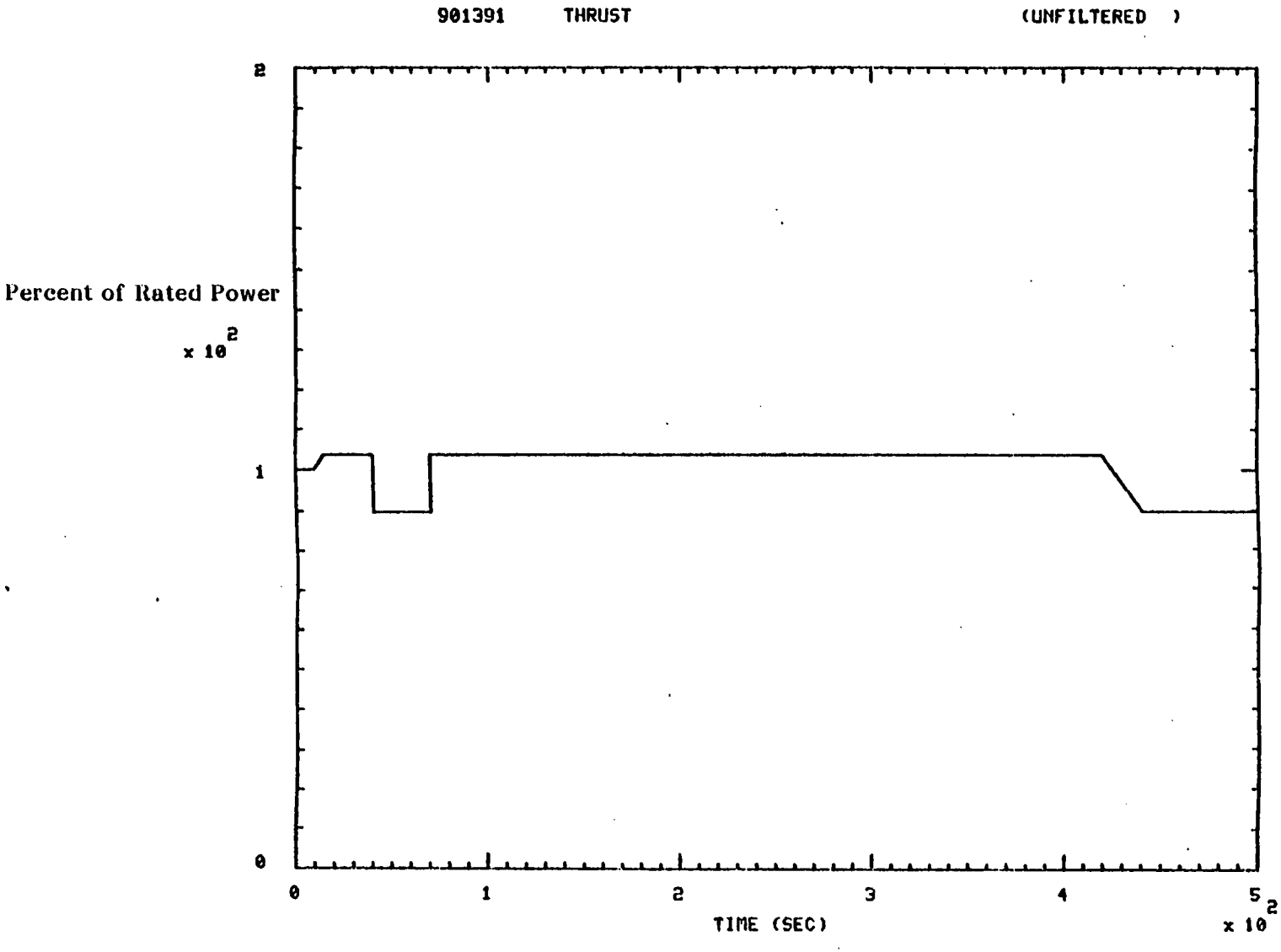

901384 THRUST (UNFILTERED)
Percent of Rated Power
x 10^2
2
1
0
0
1
2
3
4
5
6
TIME (SEC)
x 10^2

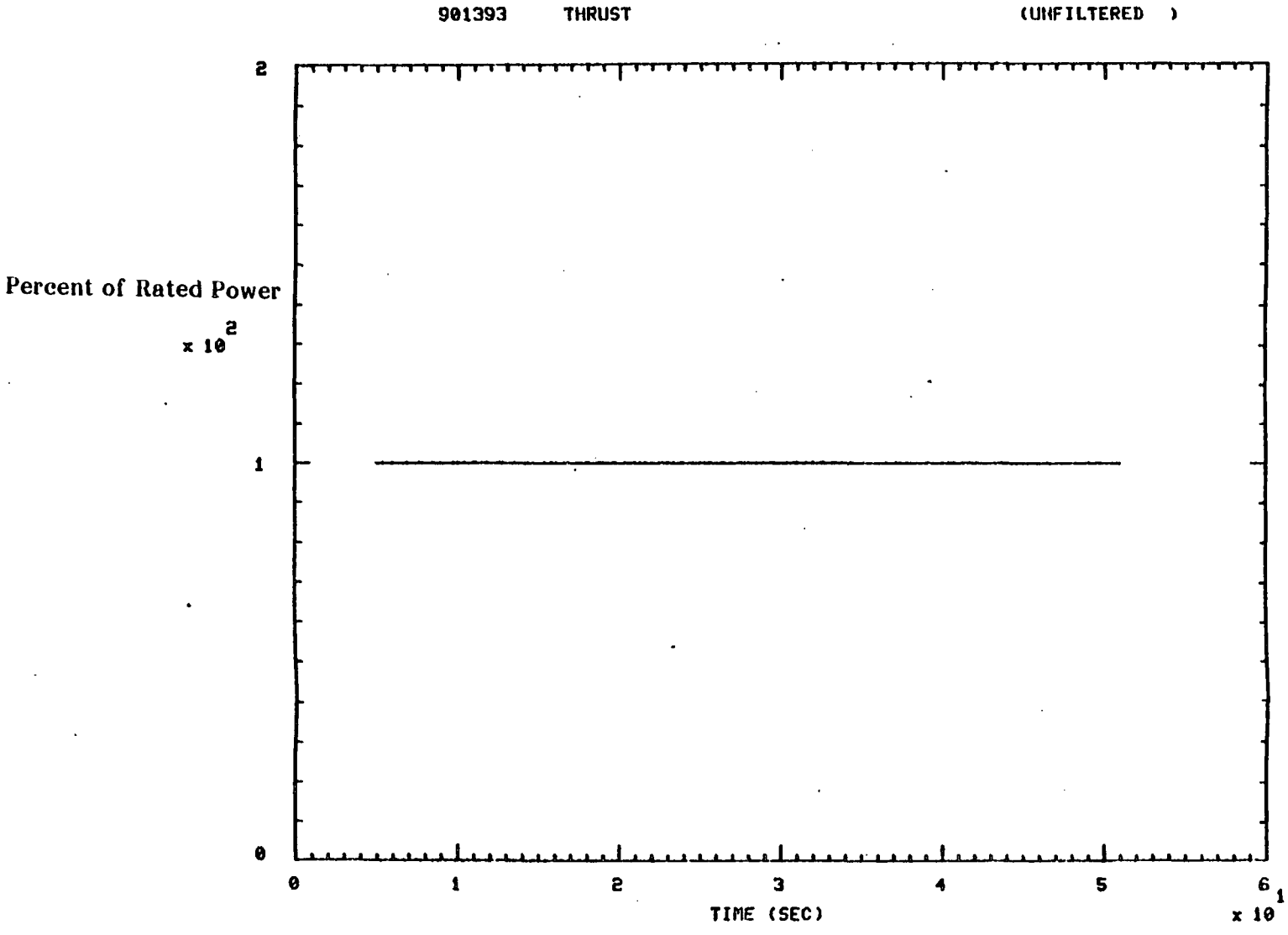

901385 THRUST (UNFILTERED)
Percent of Rated Power
x 10^2
2
1
0
0
1
2
3
TIME (SEC)
x 10^2

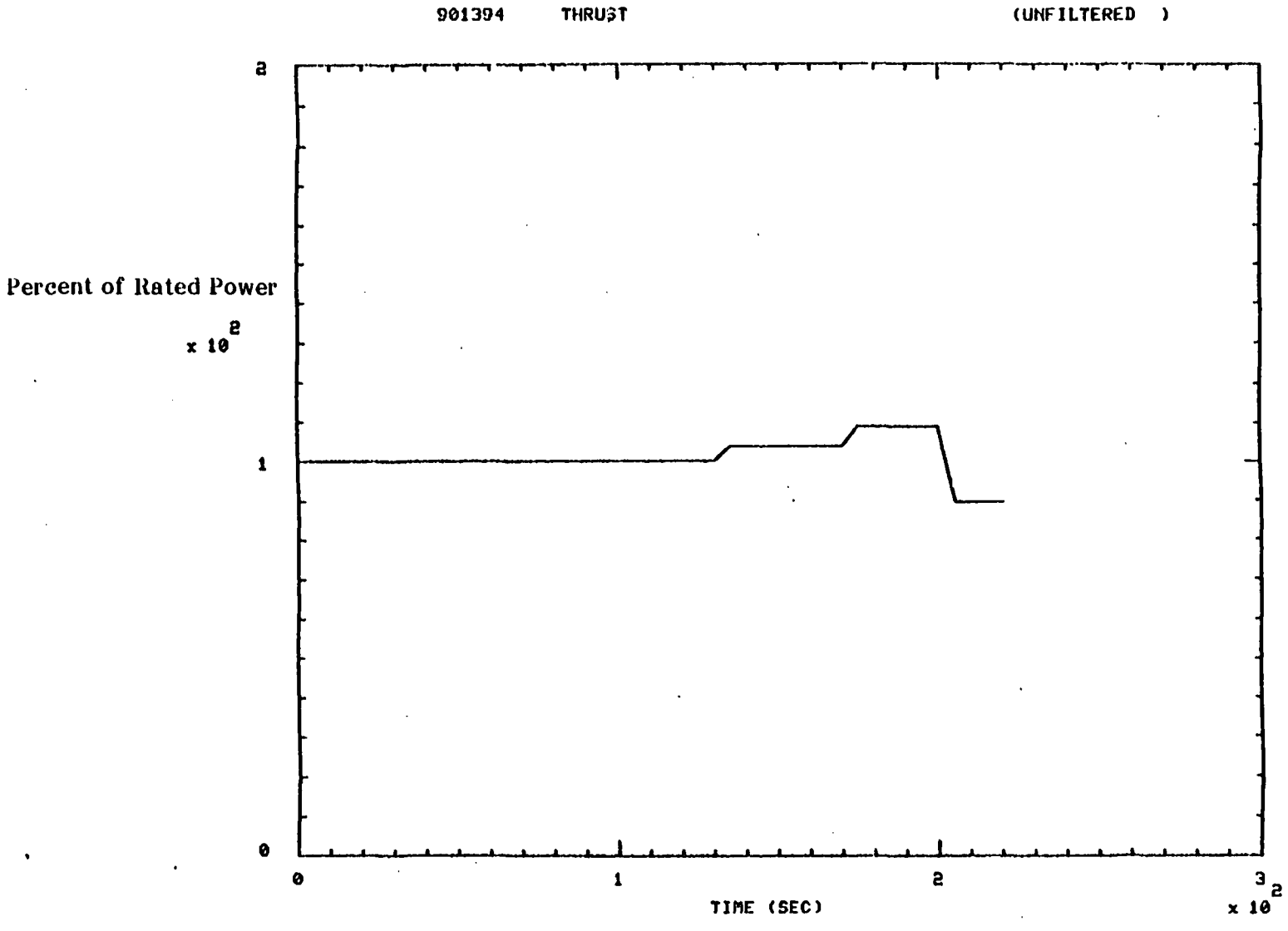

901388 THRUST (UNFILTERED)
Percent of Rated Power
x 10^2
2
1
0
0
1.
2
TIME (SEC)
x 10^2

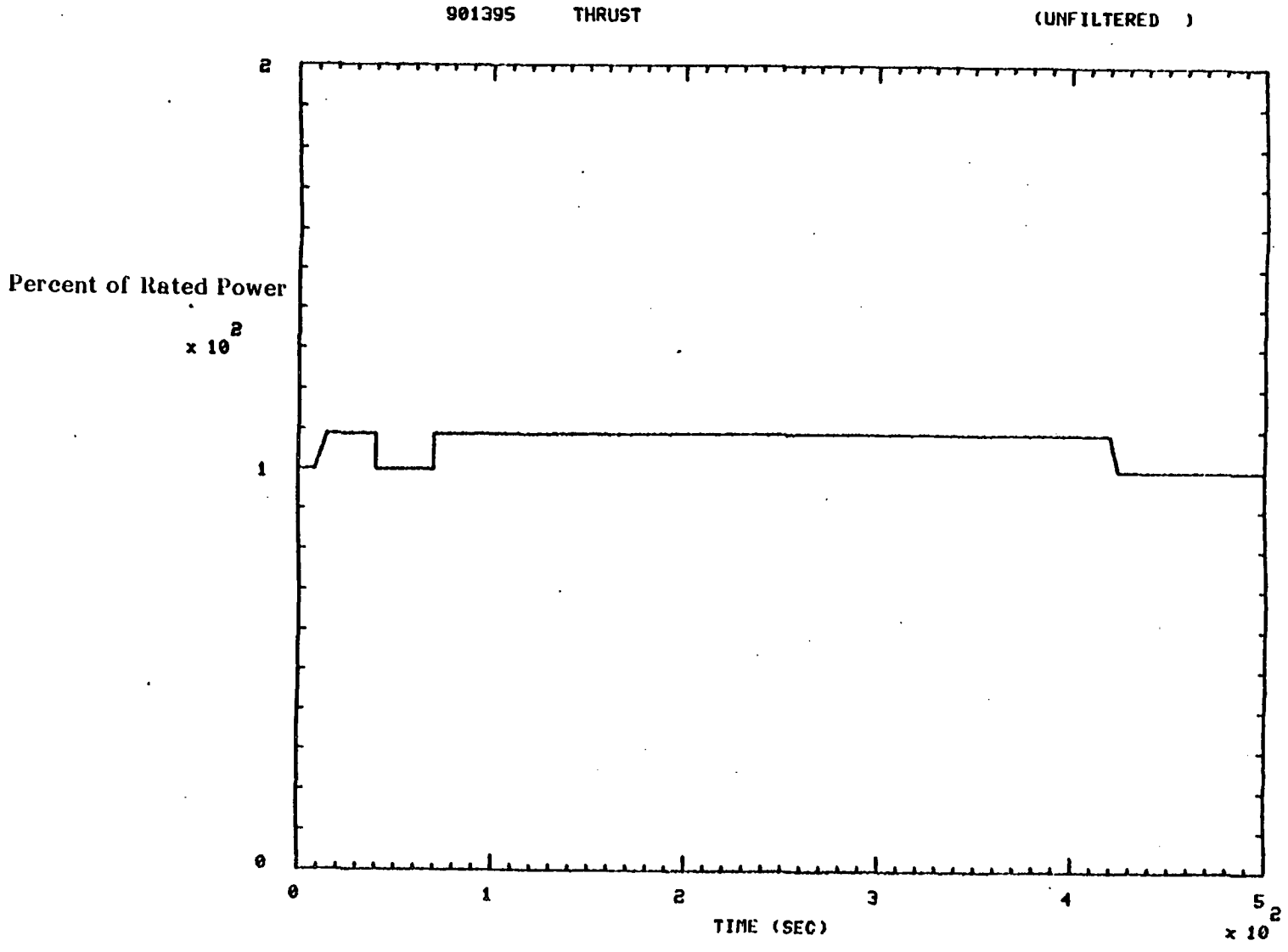

901389 THRUST (UNFILTERED)
Percent of Rated Power
x 10^2
2
1
0
0
1
2
TIME (SEC)
x 10^2

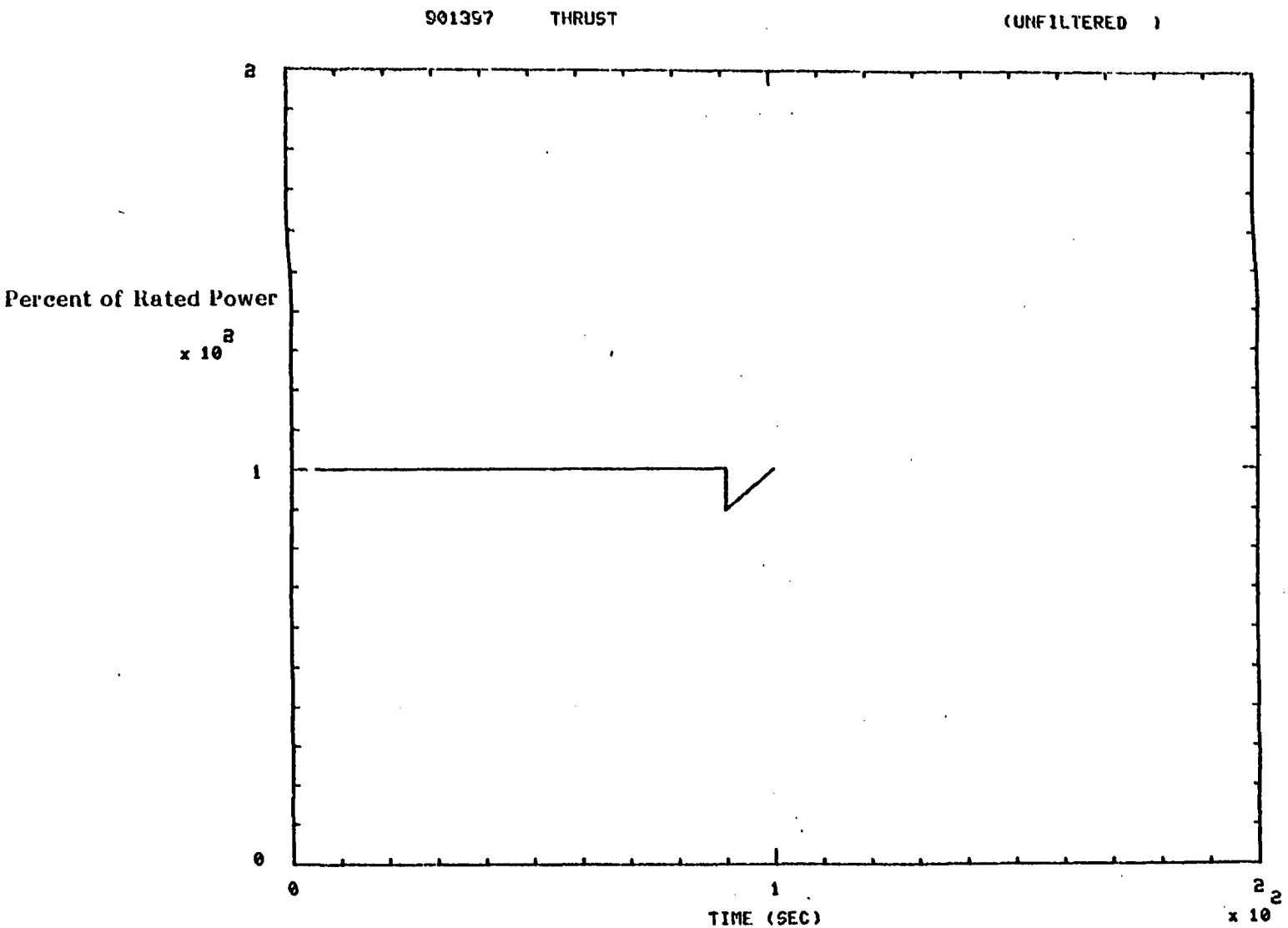

901390 THRUST (UNFILTERED)
Percent of Rated Power
x 10^2
2
1
0
0
1
2
TIME (SEC)
x 10^2

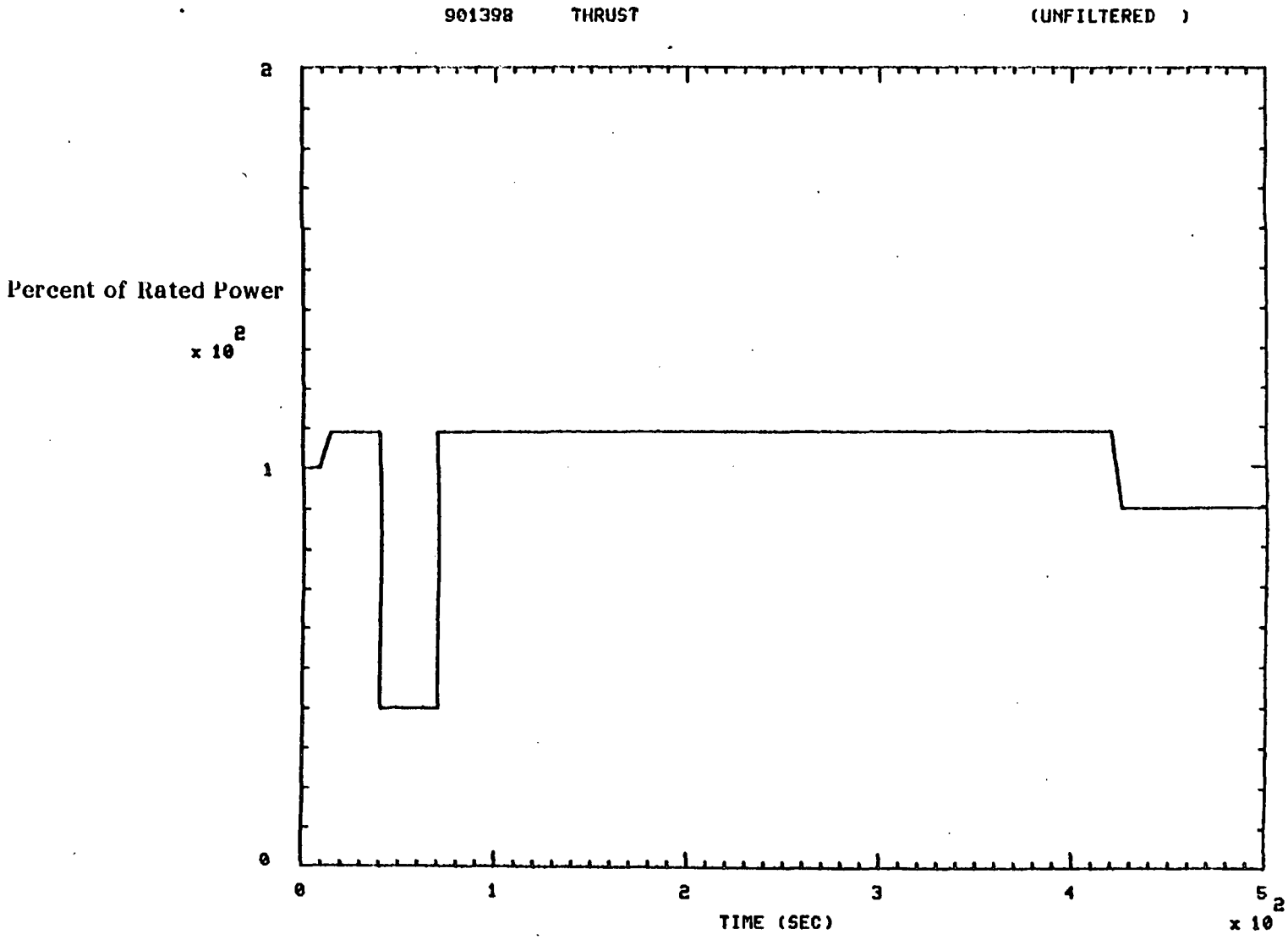

901391 THRUST (UNFILTERED)
Percent of Rated Power
x 10^2
2
1
0
0
1
2
3
4
5
TIME (SEC)
x 10^2

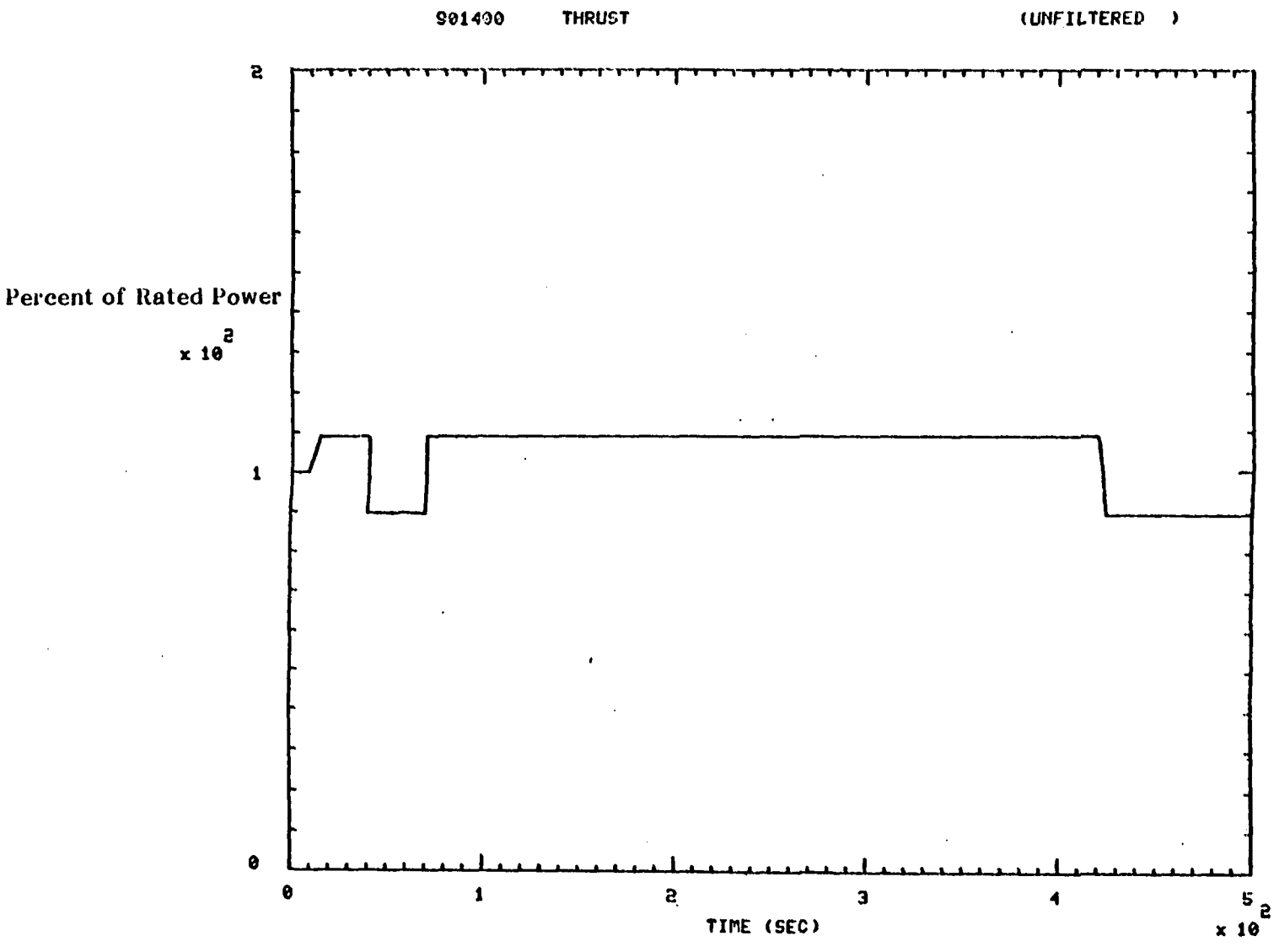

901393 THRUST (UNFILTERED)
Percent of Rated Power
x 10^2
2
1
0
0
1
2
3
4
5
6
TIME (SEC)
x 10^1

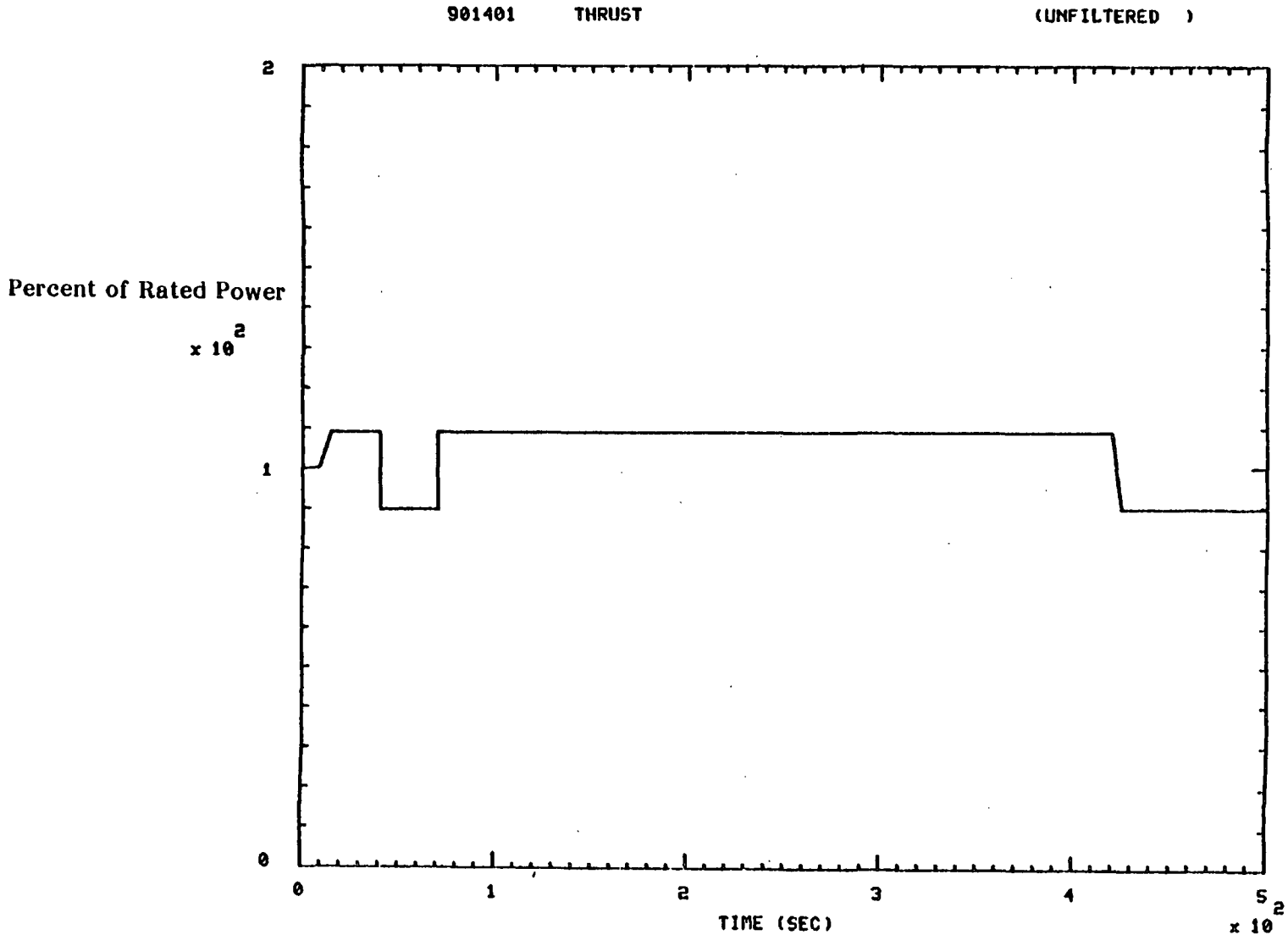

901394 THRU3T (UNFILTERED)
Percent of Rated Power
x 10^2
2
1
0
0
1
2
3
TIME (SEC)
x 10^2

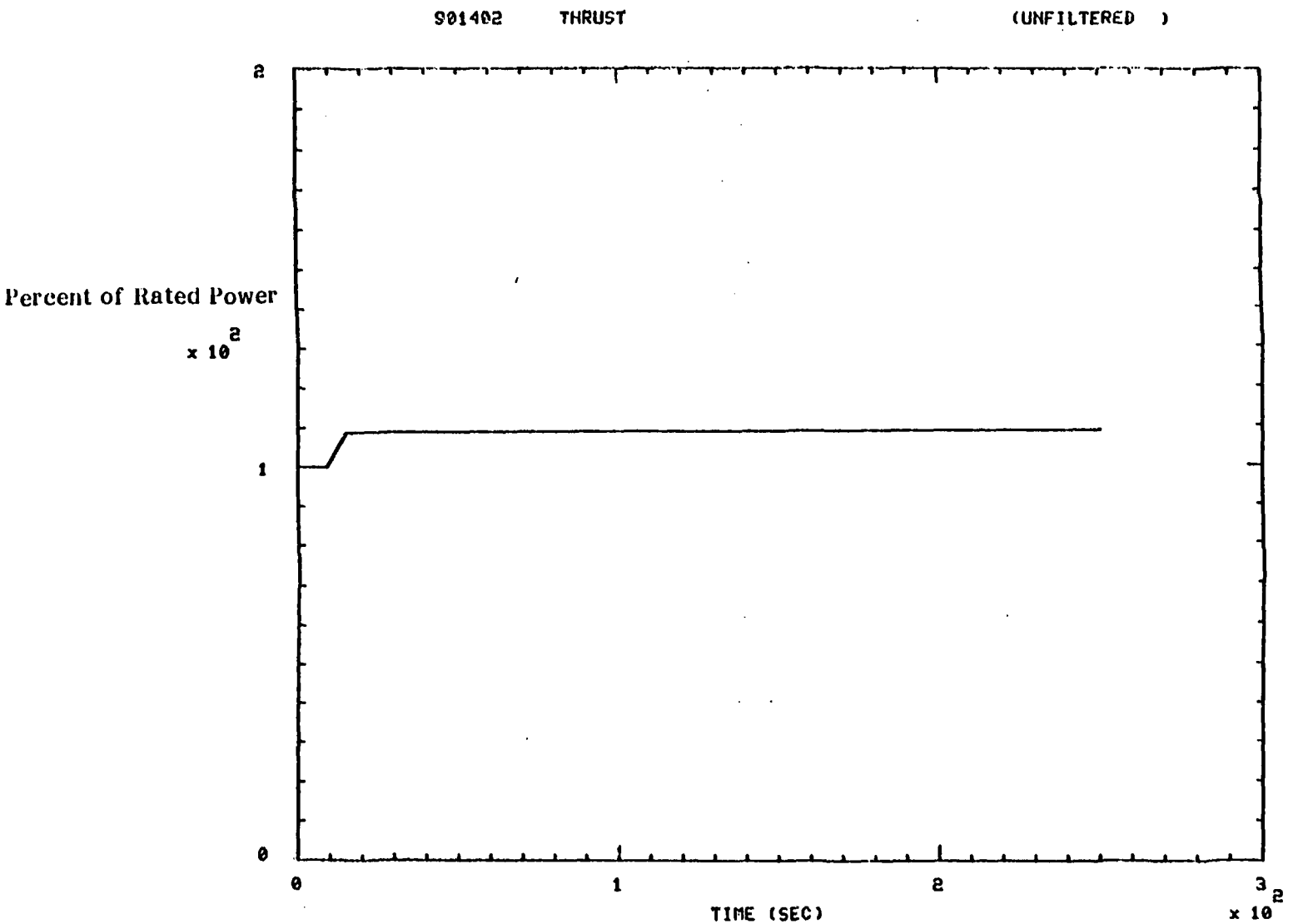

901395 THRUST
(UNFILTERED)
Percent of Rated Power
x 10^2
2
1
0
0
1
2
3
4
5
TIME (SEC)
x 10^2

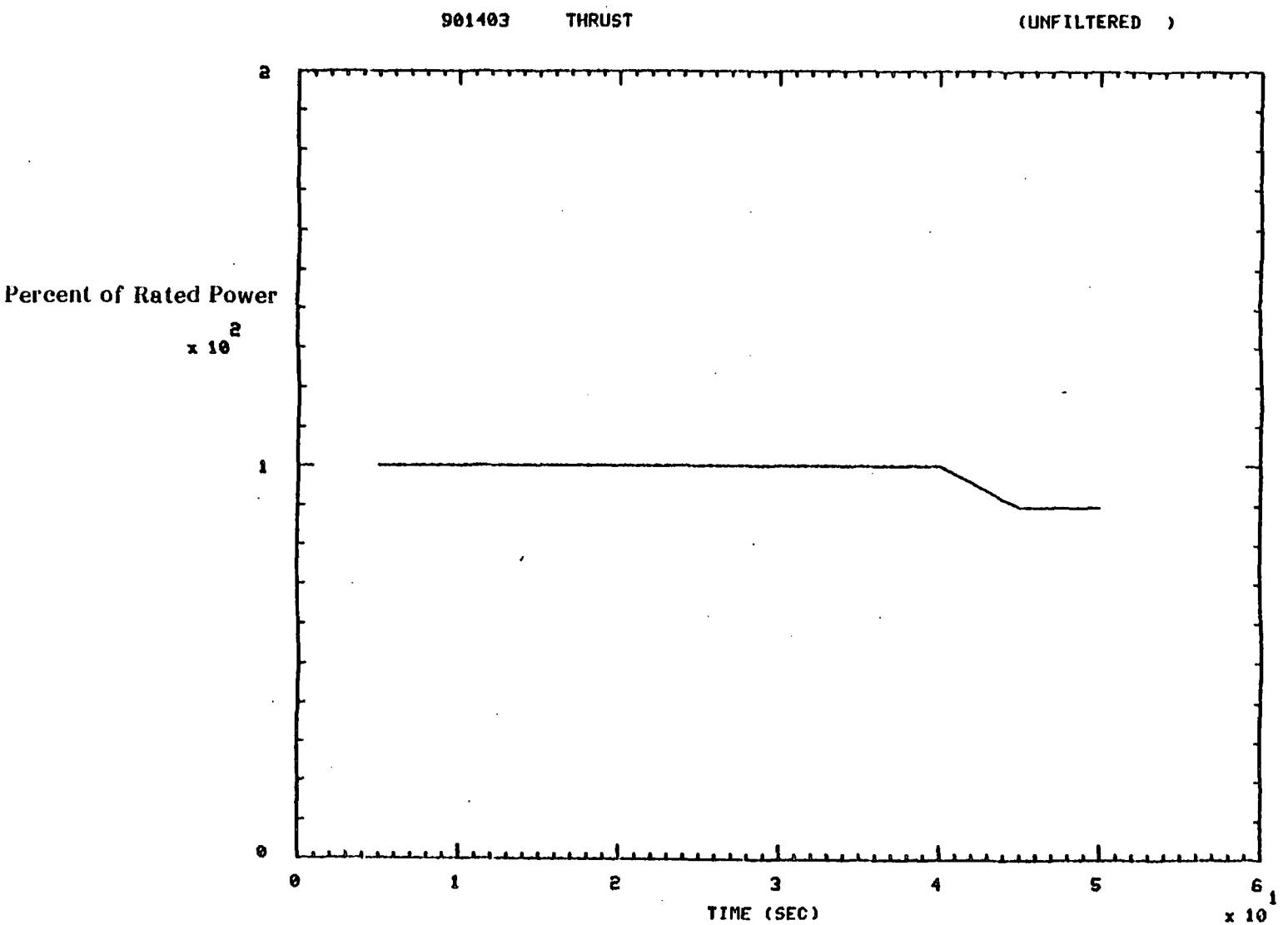

901397 THRUST (UNFILTERED)
Percent of Rated Power
x 10^0
2
1
0
0
1
2
TIME (SEC)
x 10^2

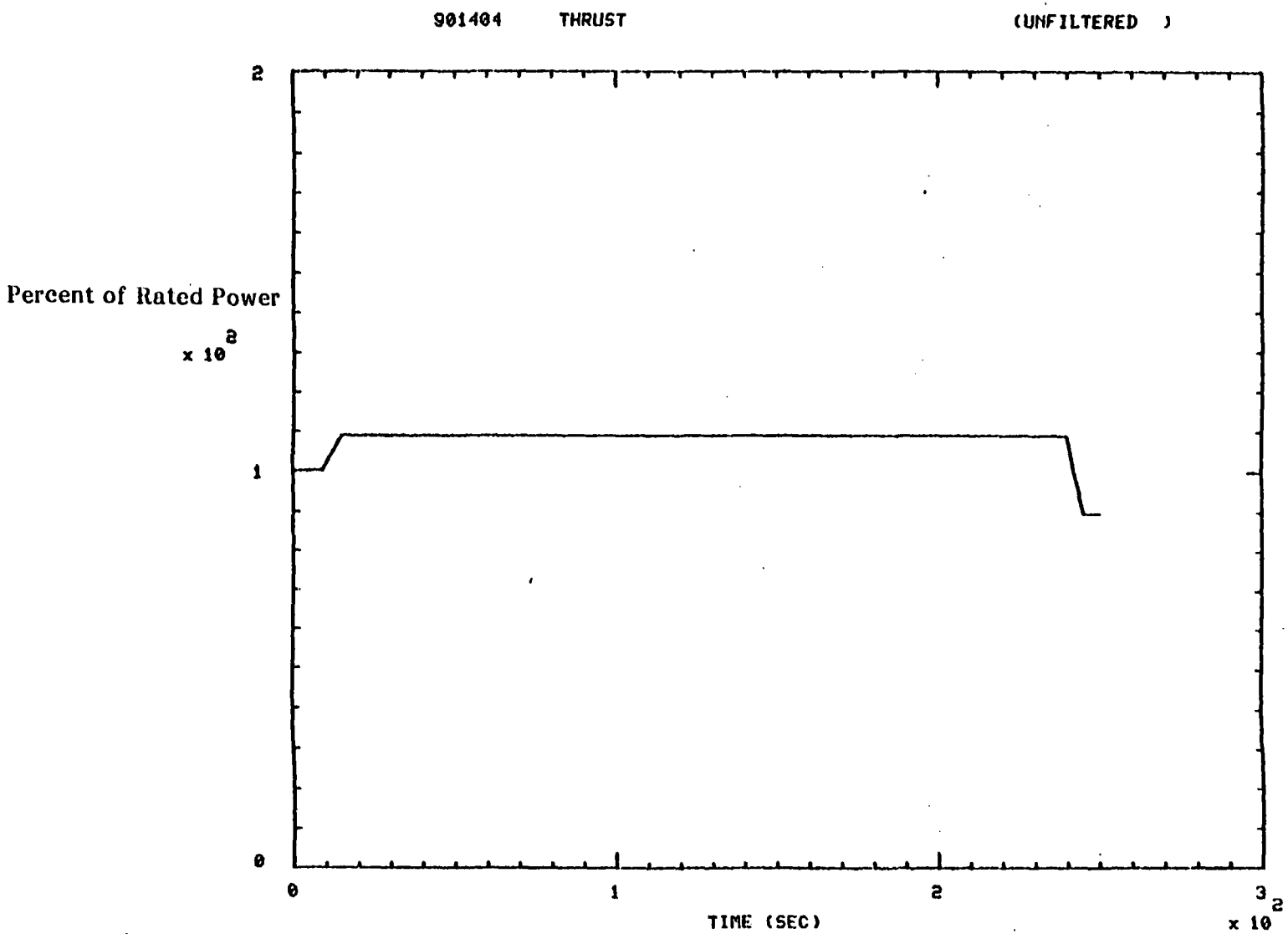

901398 THRUST (UNFILTERED)
Percent of Rated Power
x 10^2
2
1
0
0
1
2
3
4
5
TIME (SEC)
x 10^2

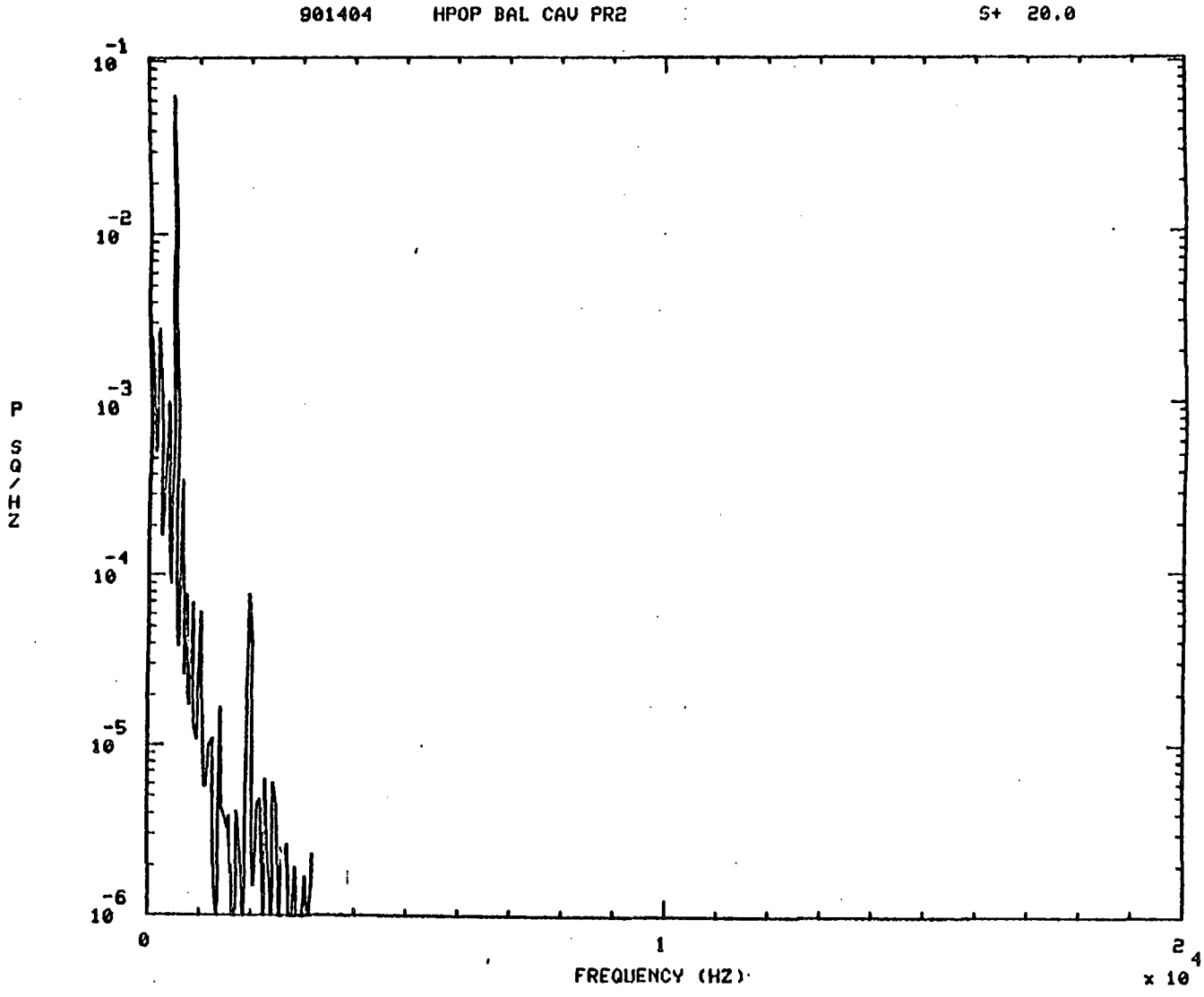

901400 THRUST (UNFILTERED)
Percent of Rated Power
x 10^2
2
1
0
0
1
2
3
4
5
TIME (SEC)
x 10^2

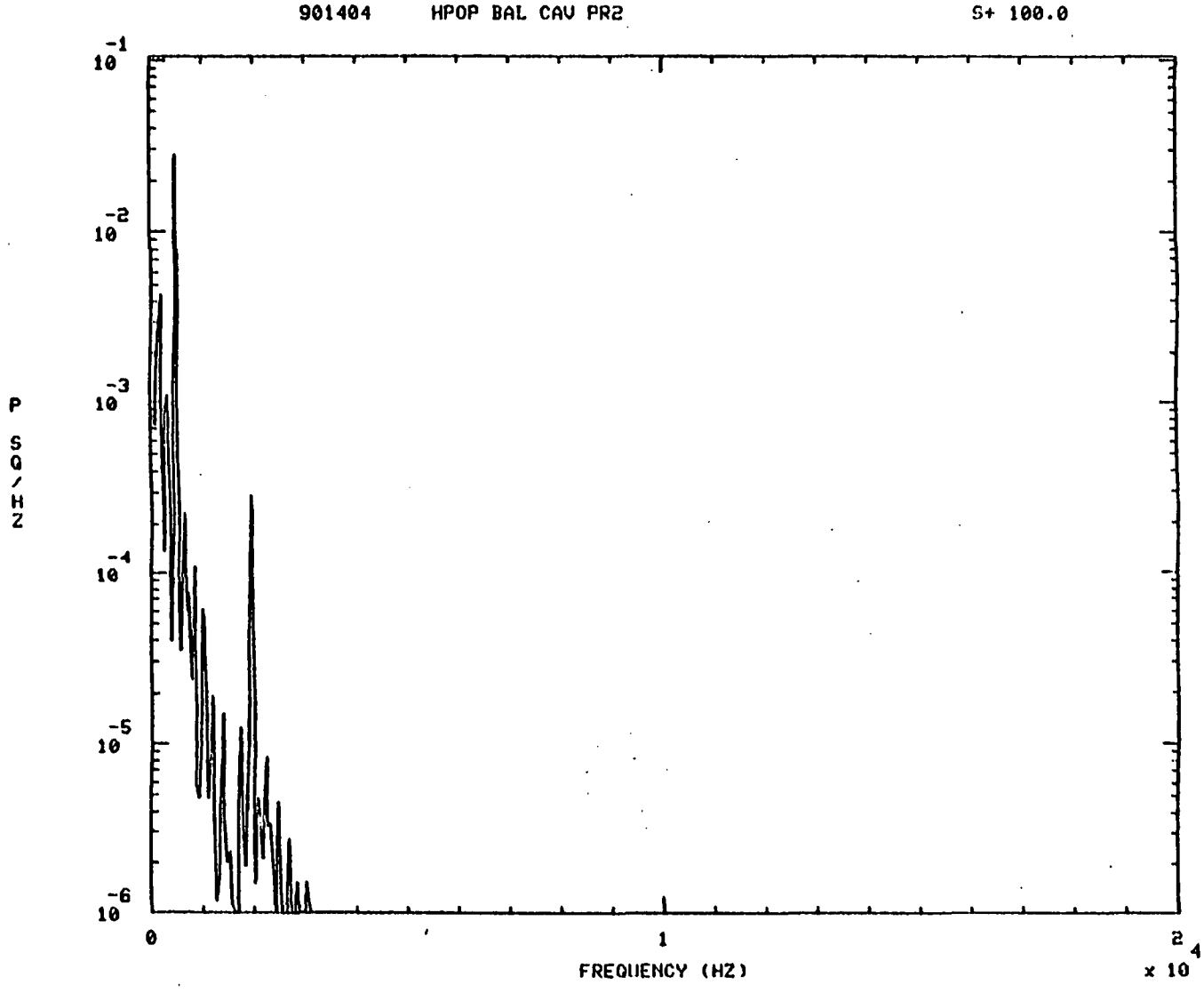

901401 THRUST (UNFILTERED)
Percent of Rated Power
x 10^2
2
1
0
0
1
2
3
4
5
TIME (SEC)
x 10^2

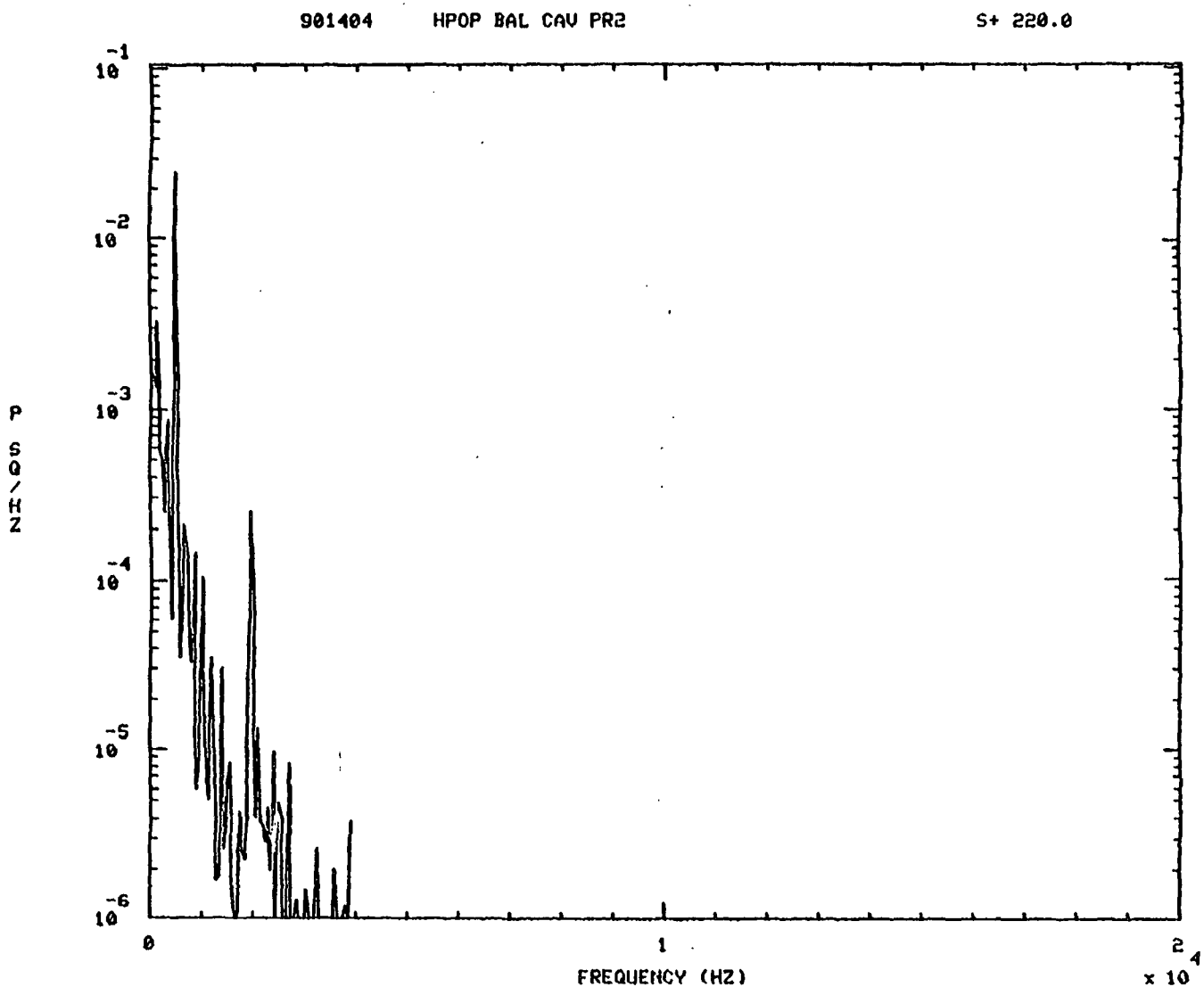

S01402 THRUST (UNFILTERED)
Percent of Rated Power
x 10^2
2
1
0
0
1
2
3
TIME (SEC)
x 10^2

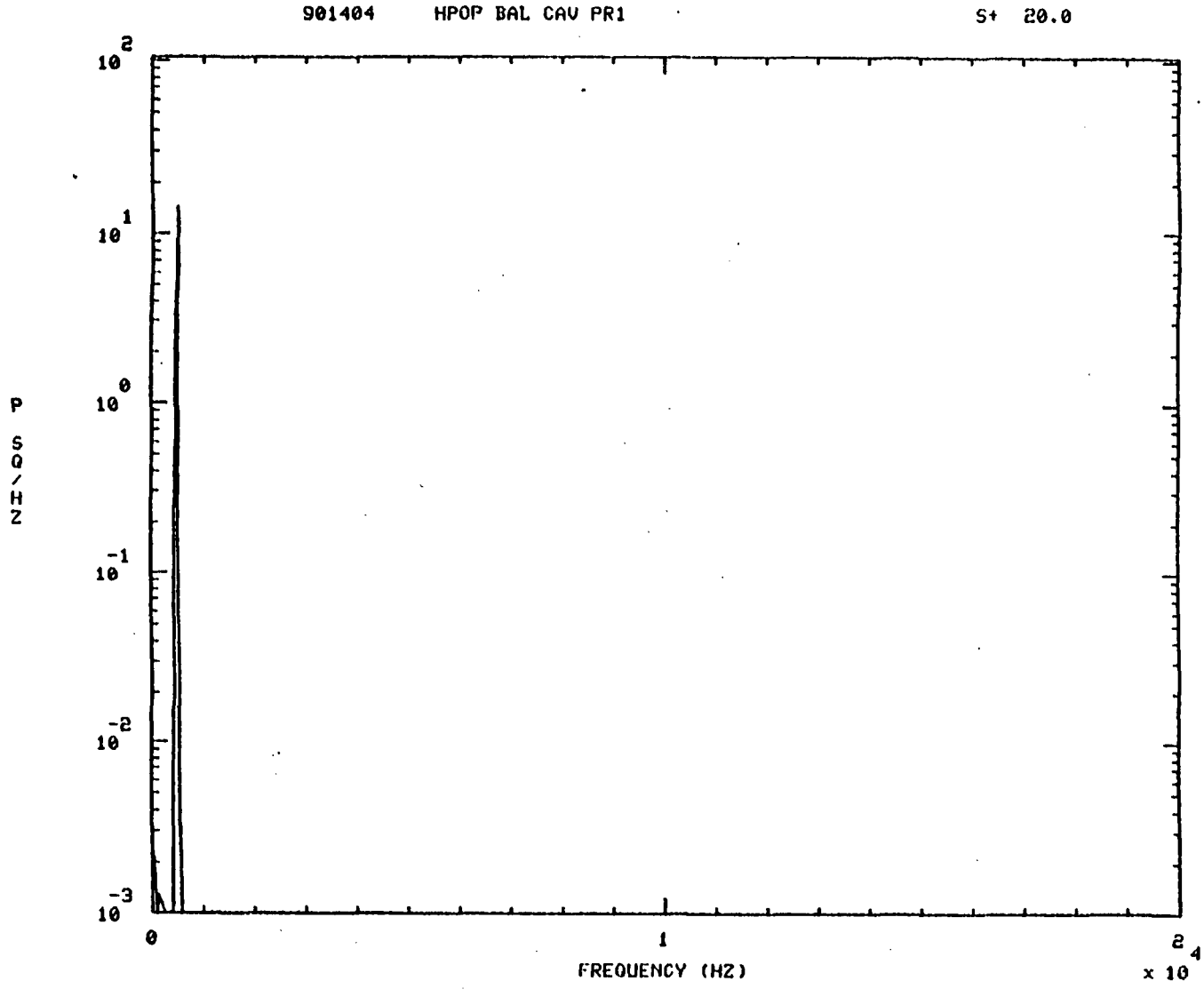

901403 THRUST (UNFILTERED)
Percent of Rated Power
x 10^2
2
1
0
0
1
2
3
4
5
6
TIME (SEC)
x 10^1

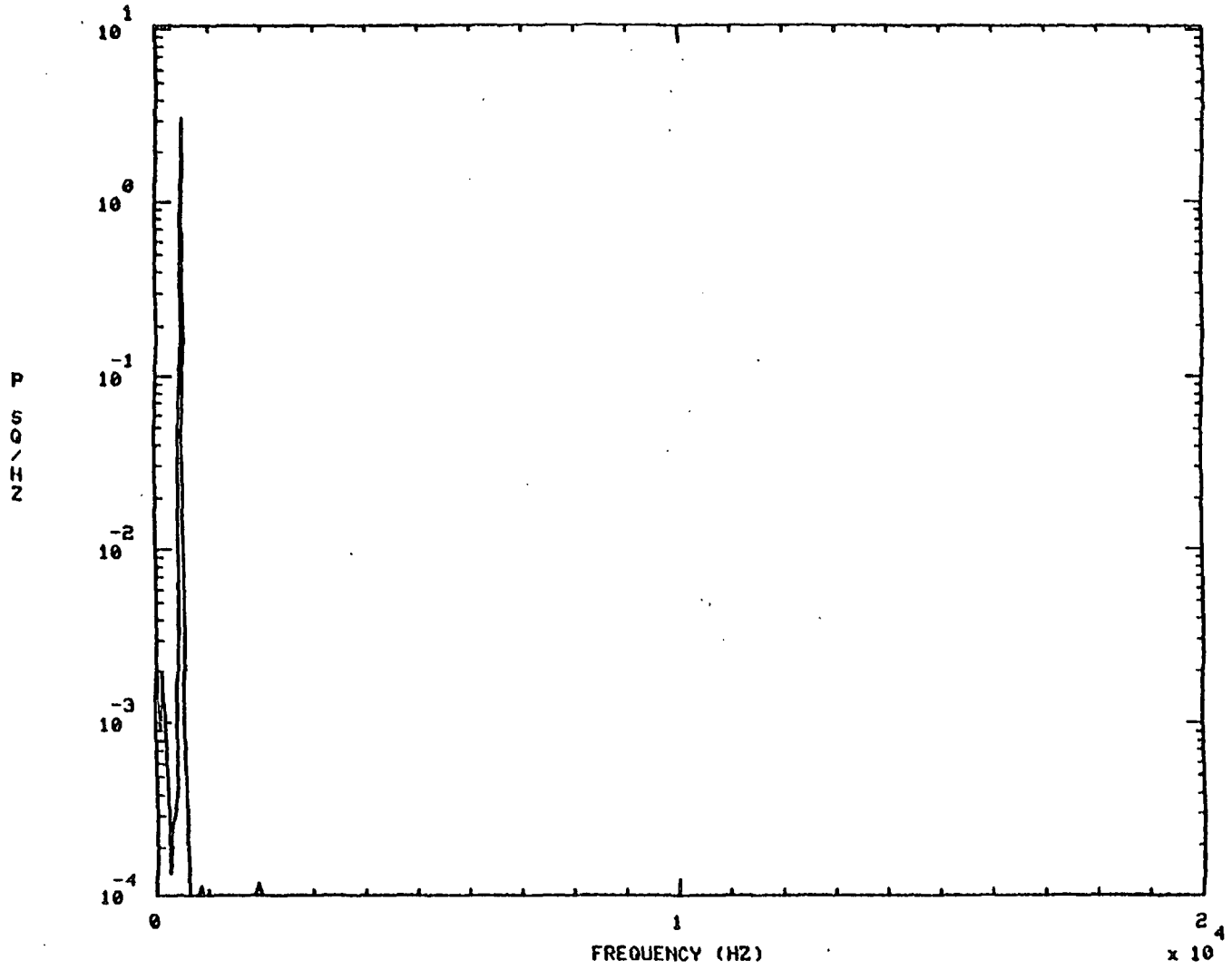

901404 THRUST (UNFILTERED)
Percent of Rated Power
x 10^2
2
1
0
0
1
2
3
TIME (SEC)
x 10^2

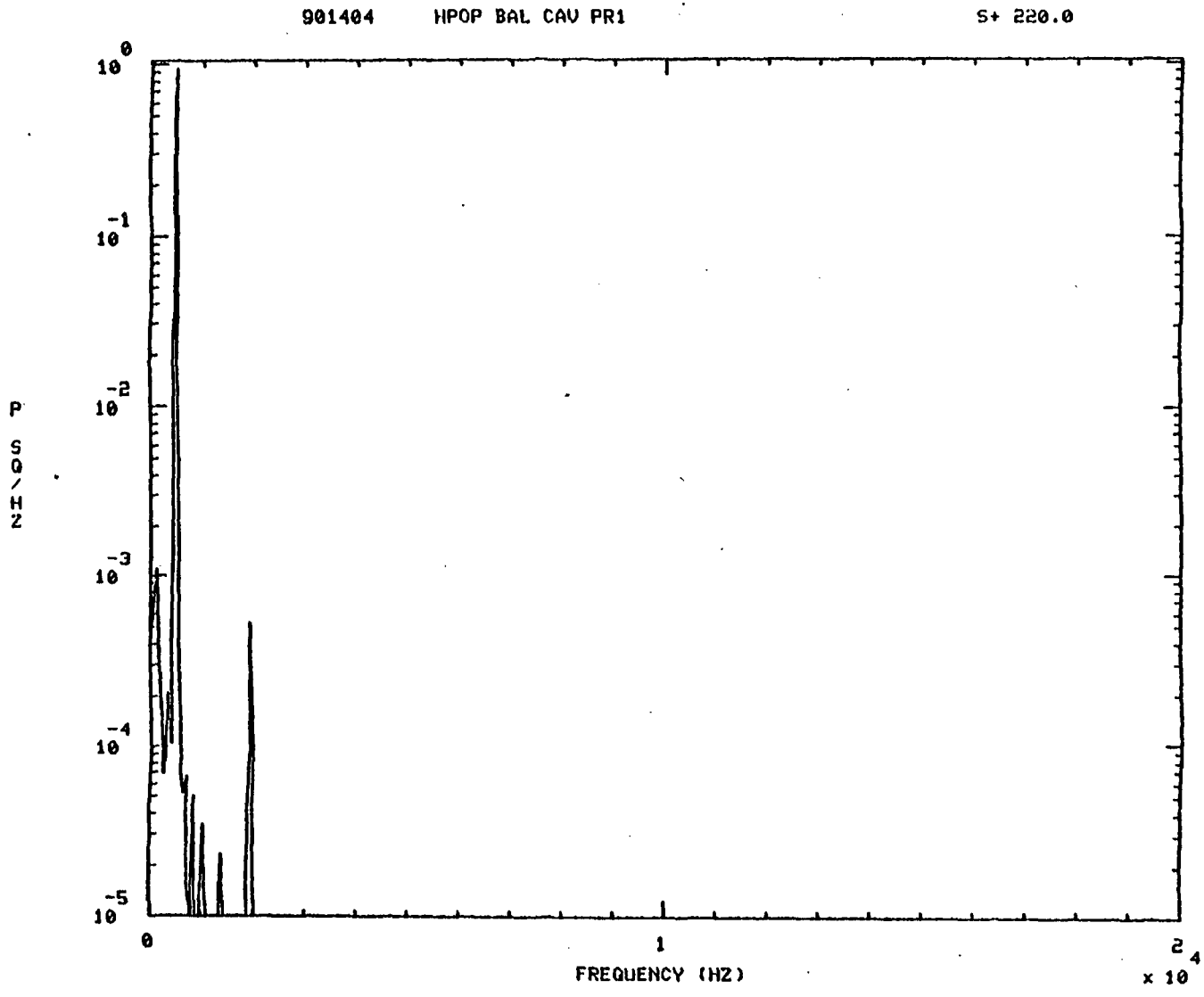

901404 HPOP BAL CAV PR2
S+ 20.0
P
S
Q
/
H
Z
10^-1
10^-2
10^-3
10^-4
10^-5
10^-6
0
1
2
FREQUENCY (HZ)
x 10^4

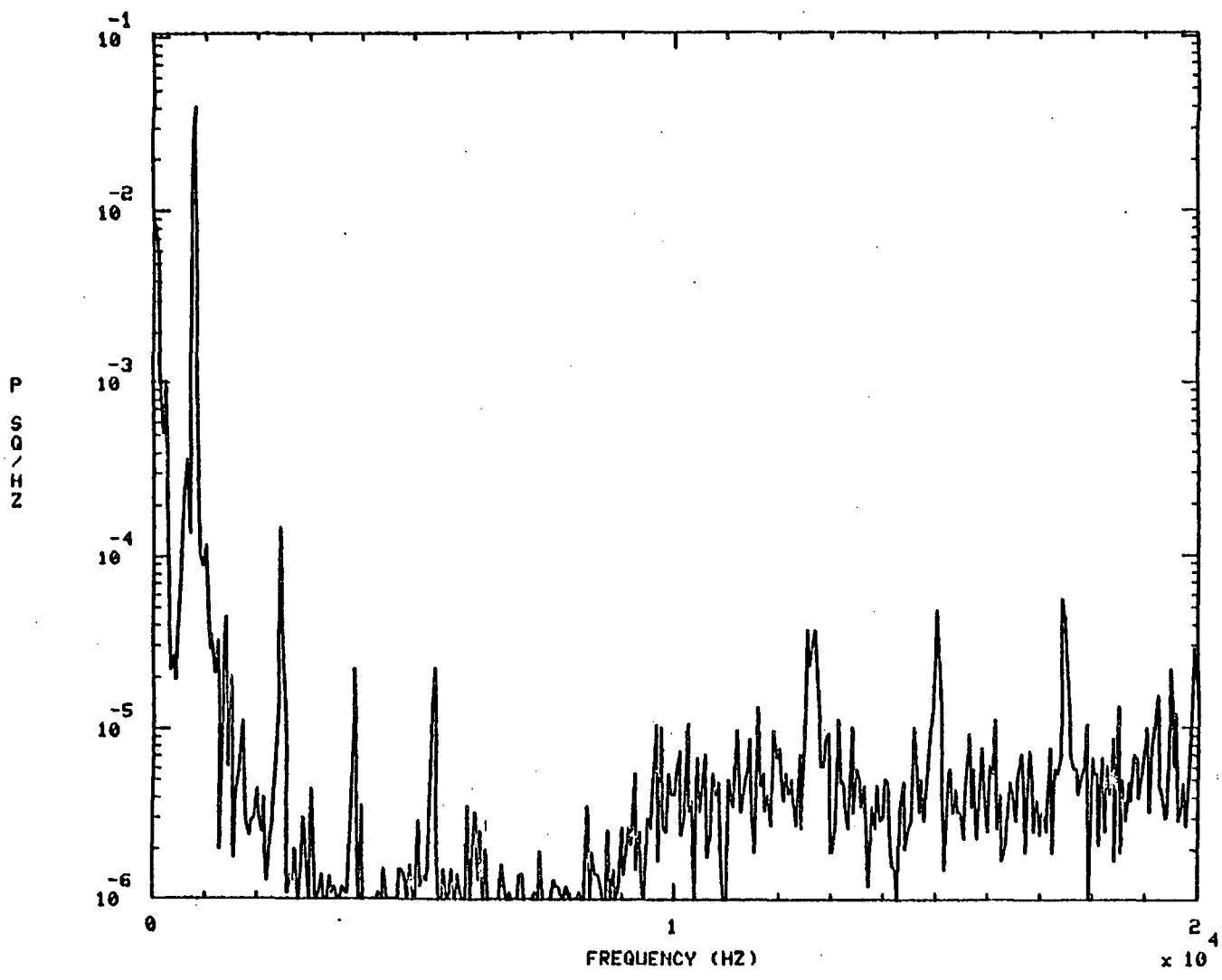

901404 HPOP BAL CAV PR2
S+ 100.0
P
S
Q
/
H
Z
10^-1
10^-2
10^-3
10^-4
10^-5
10^-6
0
1
2
FREQUENCY (HZ)
x 10^4

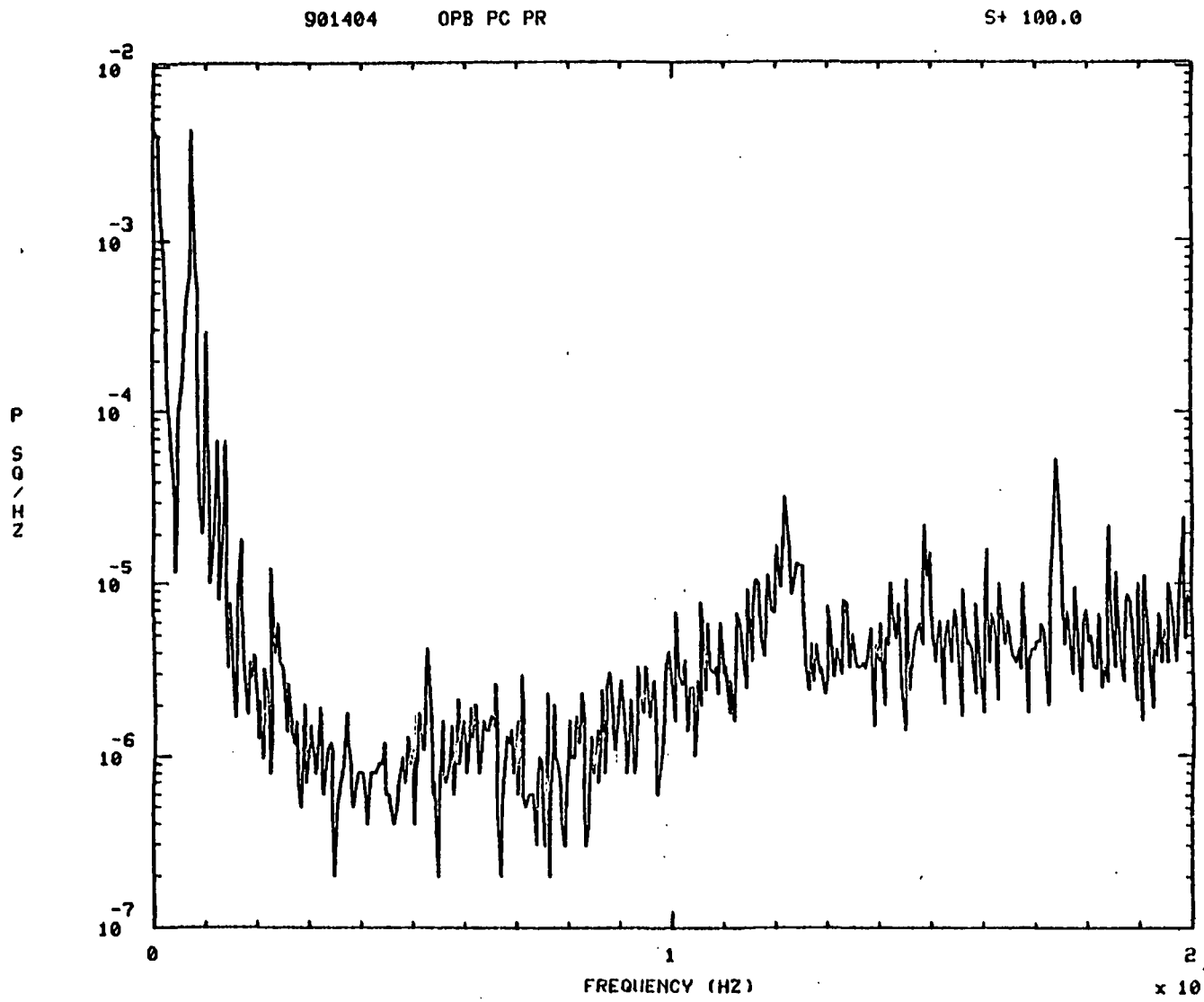

901404 HPOP BAL CAV PR2
S+ 220.0
P SQ/HZ
10^-1
10^-2
10^-3
10^-4
10^-5
10^-6
0
1
2
FREQUENCY (HZ)
x 10^4

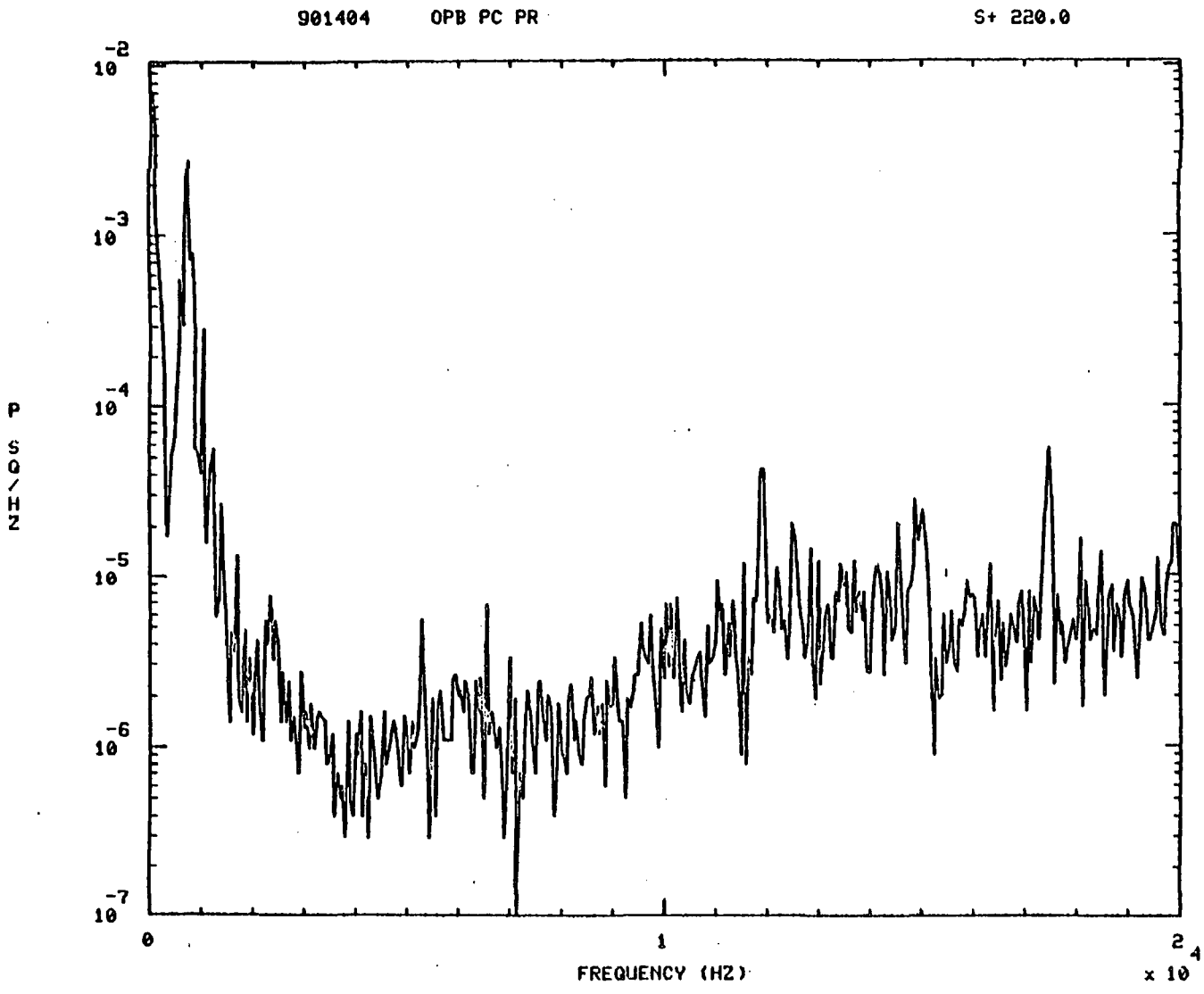

901404 HPOP BAL CAV PR1
S+ 20.0
10^2
10^1
10^0
10^-1
10^-2
10^-3
P S Q / H Z
0
1
2
4
x 10
FREQUENCY (HZ)

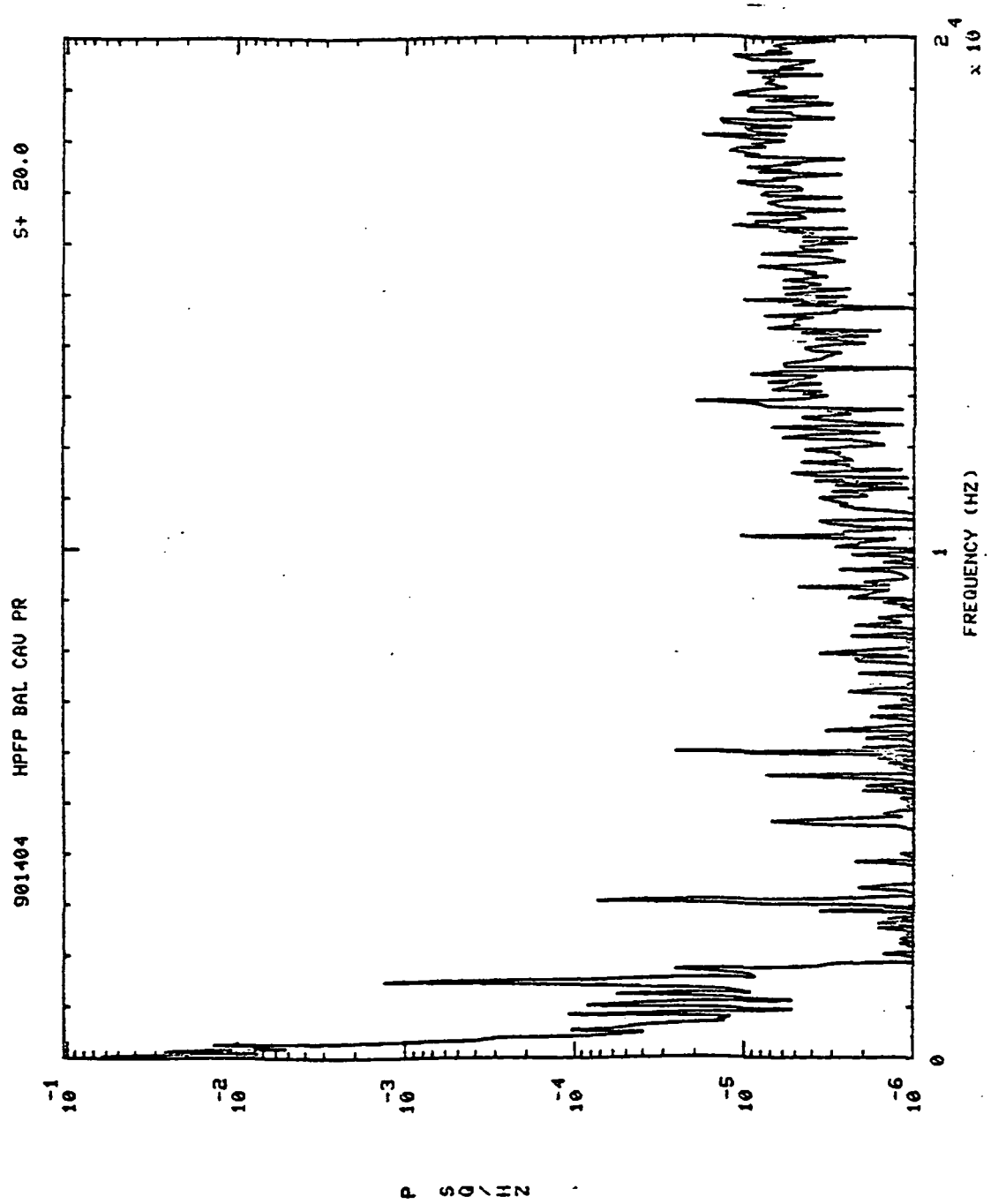

901404 HPOP BAL CAV PR1
S+ 100.0
P
S
Q
/
H
Z
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
FREQUENCY (HZ)
x 10^4

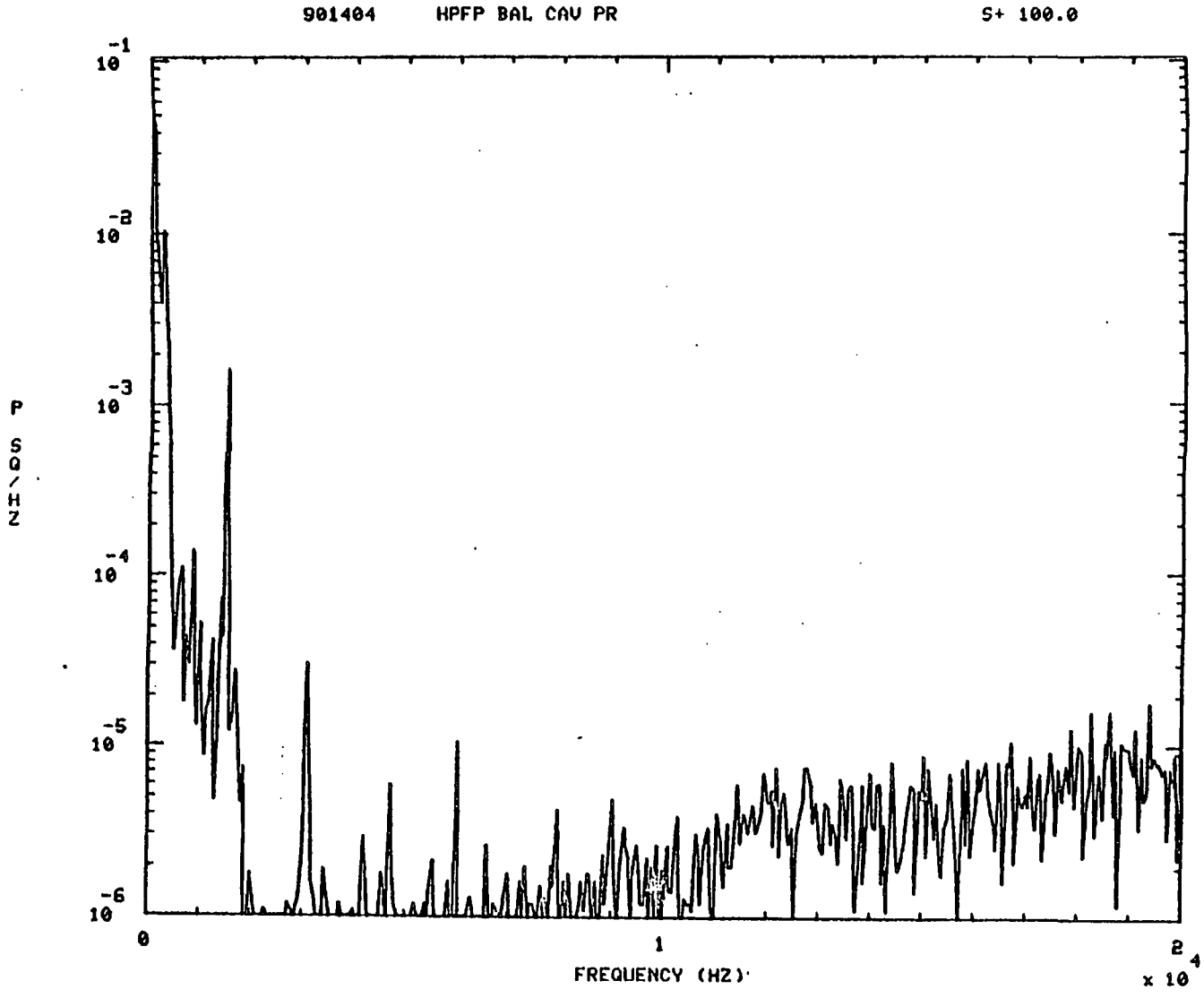

901404 HPOP BAL CAV PR1
S+ 220.0
P
S
Q
\
H
Z
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
FREQUENCY (HZ)
x 10^4

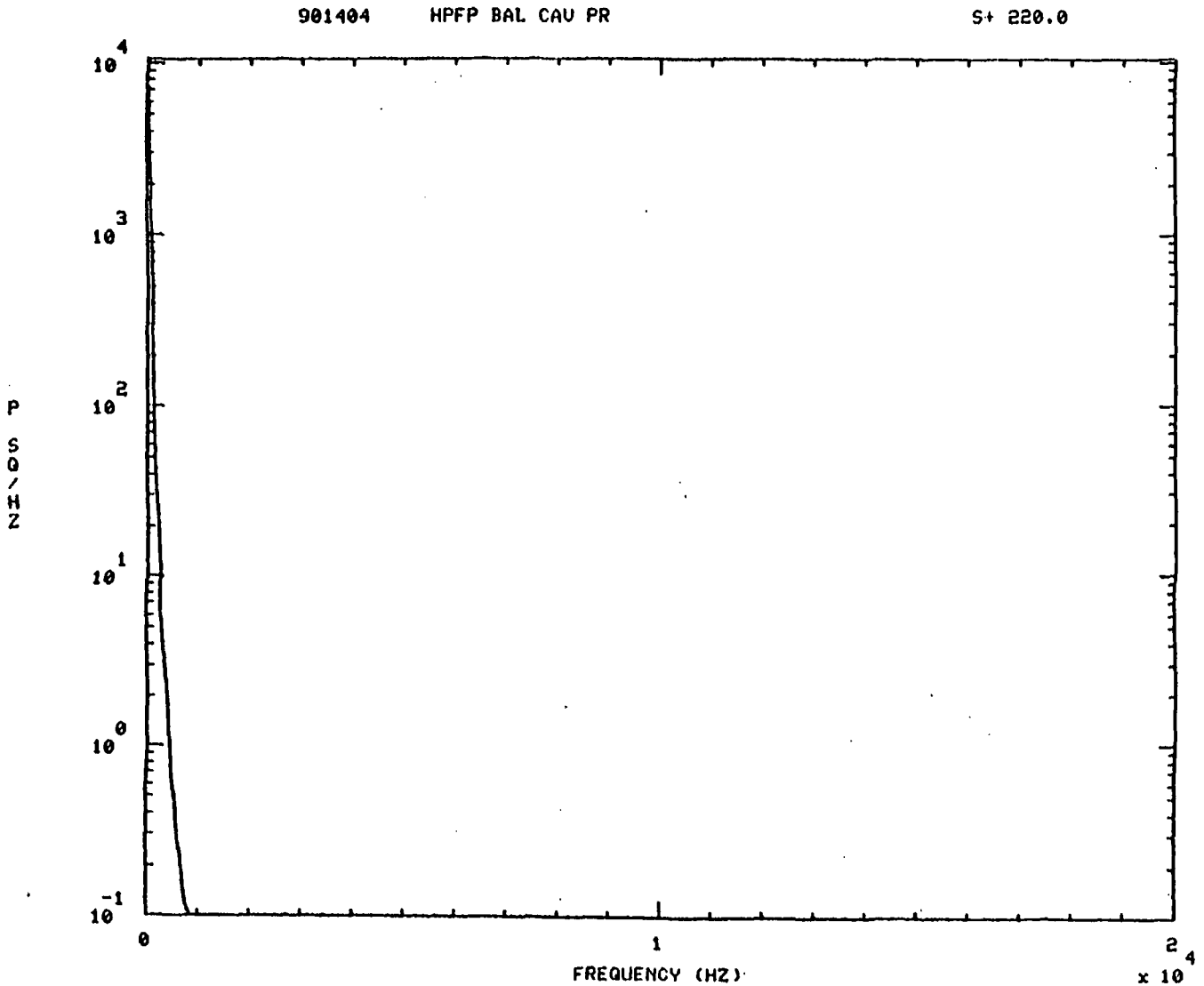

901404 OPB PC PR
S+ 20.0
P
S
Q
/
H
Z
10^-1
10^-2
10^-3
10^-4
10^-5
10^-6
0
1
2
4
x 10
FREQUENCY (HZ)

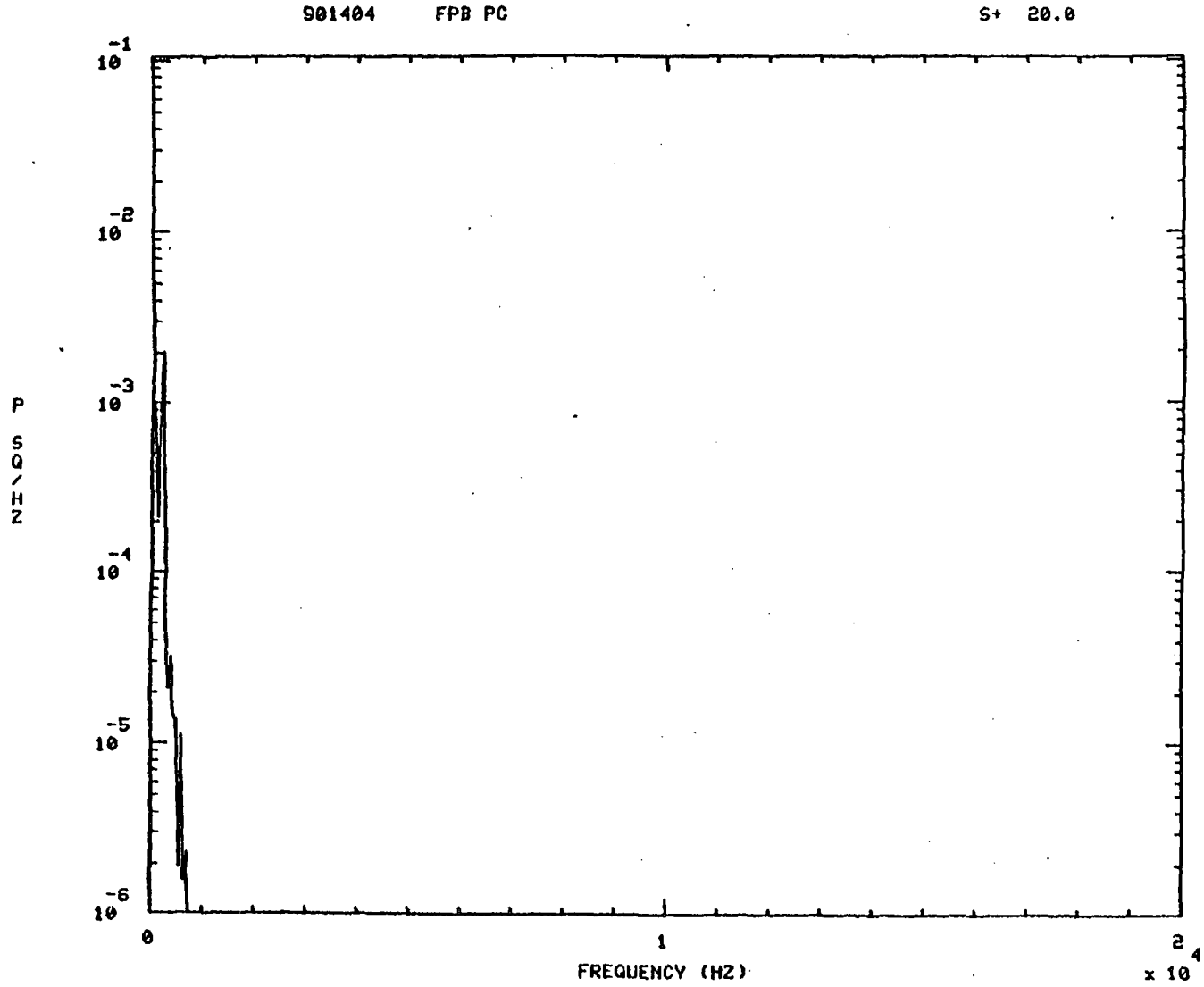

901404 OPB PC PR
S+ 100.0
P
S
Q
/
H
Z
10^-2
10^-3
10^-4
10^-5
10^-6
10^-7
0
1
2
FREQUENCY (HZ)
x 10^4

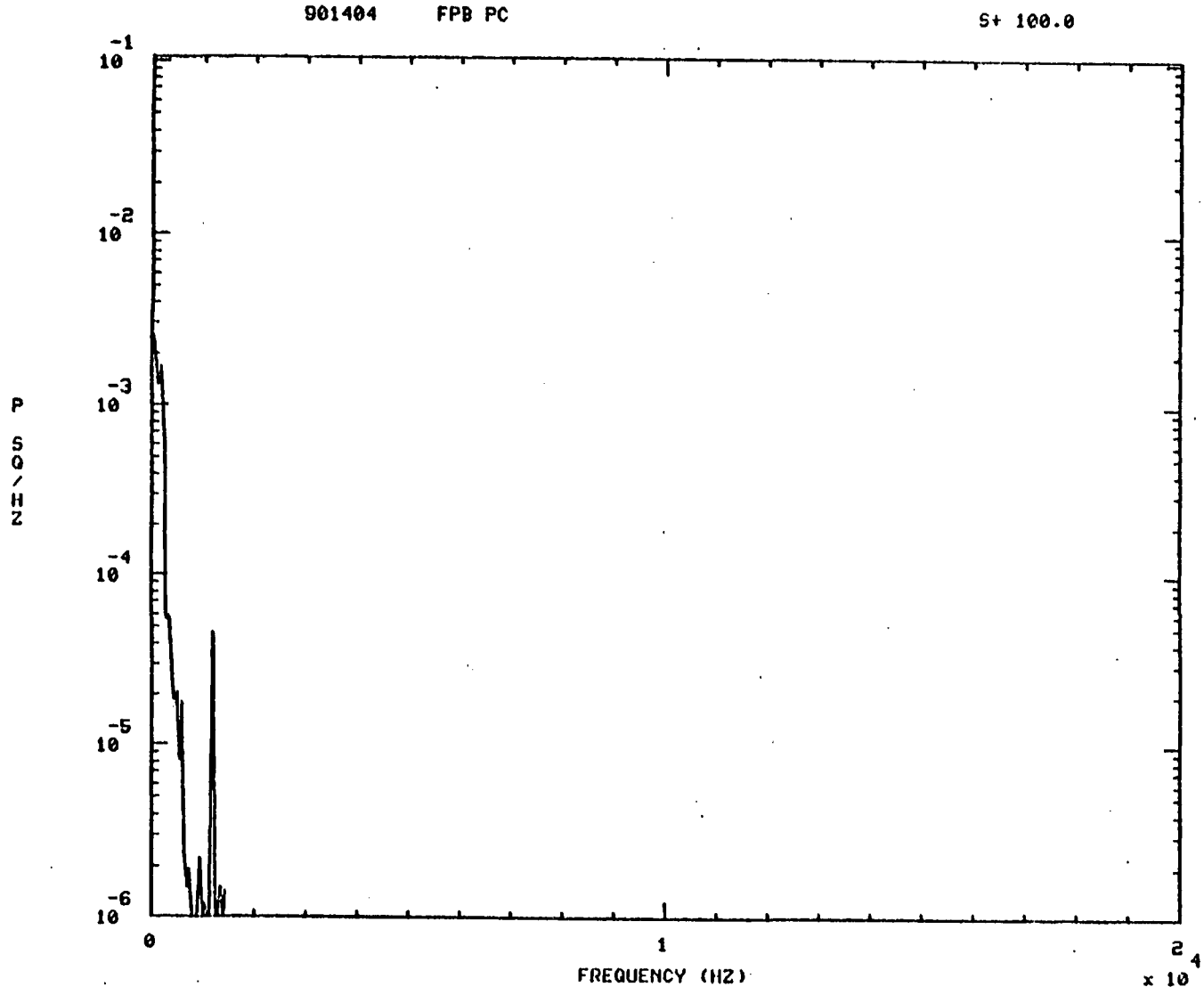

901404 OPB PC PR
S+ 220.0
P S Q / H Z
10^-2
10^-3
10^-4
10^-5
10^-6
10^-7
0
1
2
FREQUENCY (HZ)
x 10^4

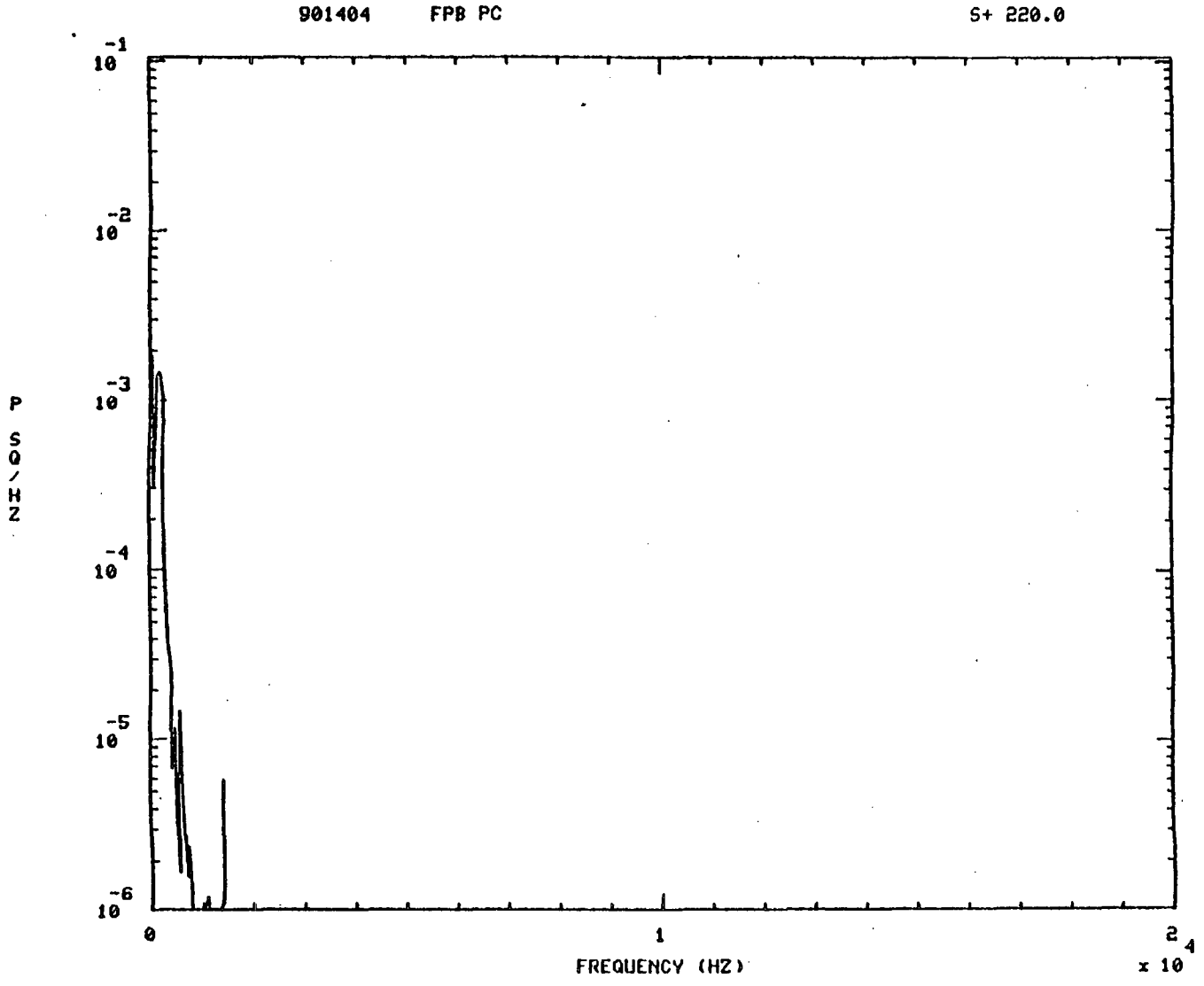

901404 HPFP BAL CAV PR
S+ 20.0
P SQ/HZ
FREQUENCY (HZ)
x 10^4
0
1
2
10^-1
10^-2
10^-3
10^-4
10^-5
10^-6

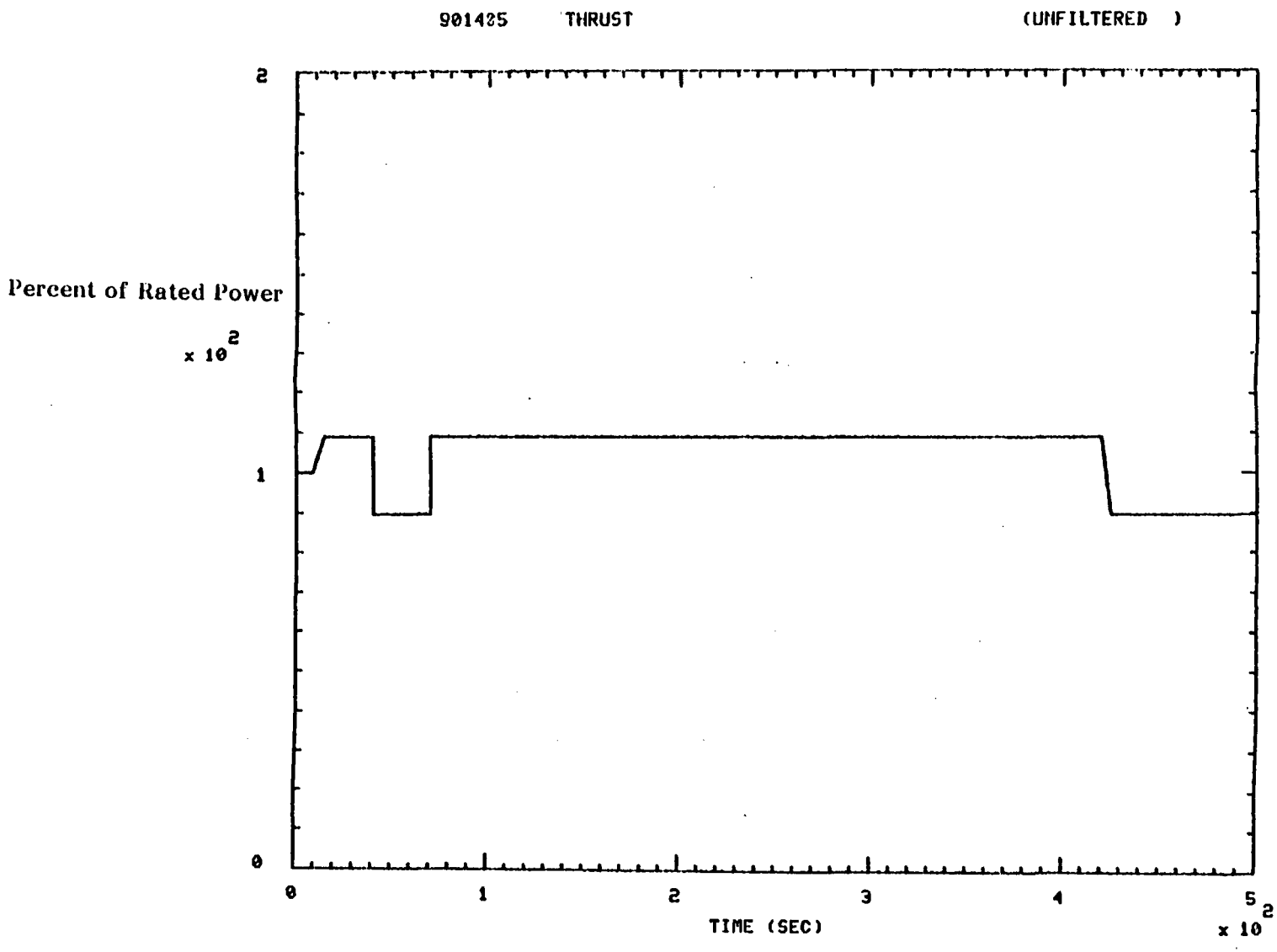

901404 HPFP BAL CAV PR
S+ 100.0
P SQ\HZ
10^-1
10^-2
10^-3
10^-4
10^-5
10^-6
0
1
2
FREQUENCY (HZ)
x 10^4

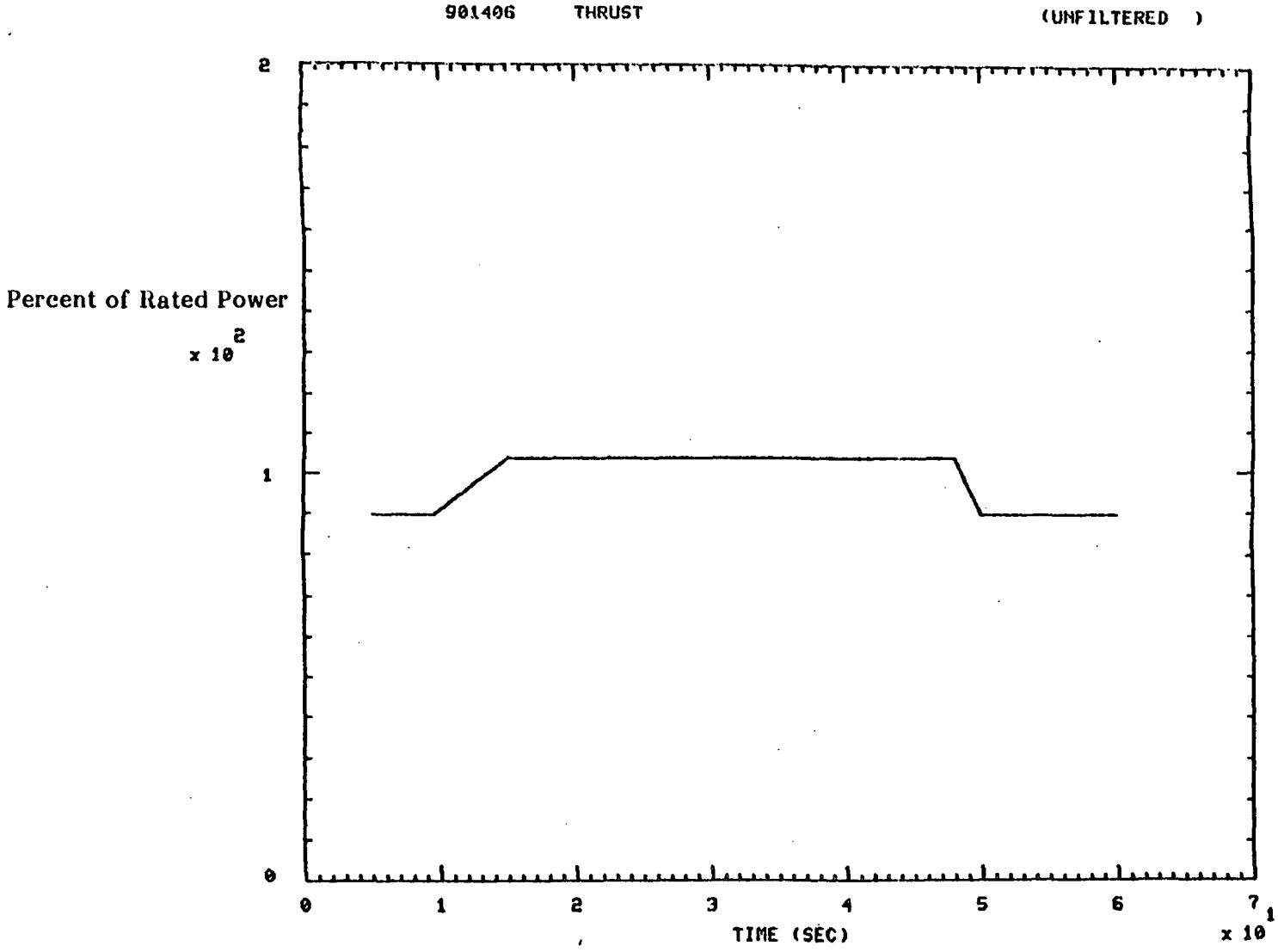

901404 HPFP BAL CAV PR
S+ 220.0
P S Q / H Z
10^4
10^3
10^2
10^1
10^0
10^-1
0
1
2
FREQUENCY (HZ)
x 10^4

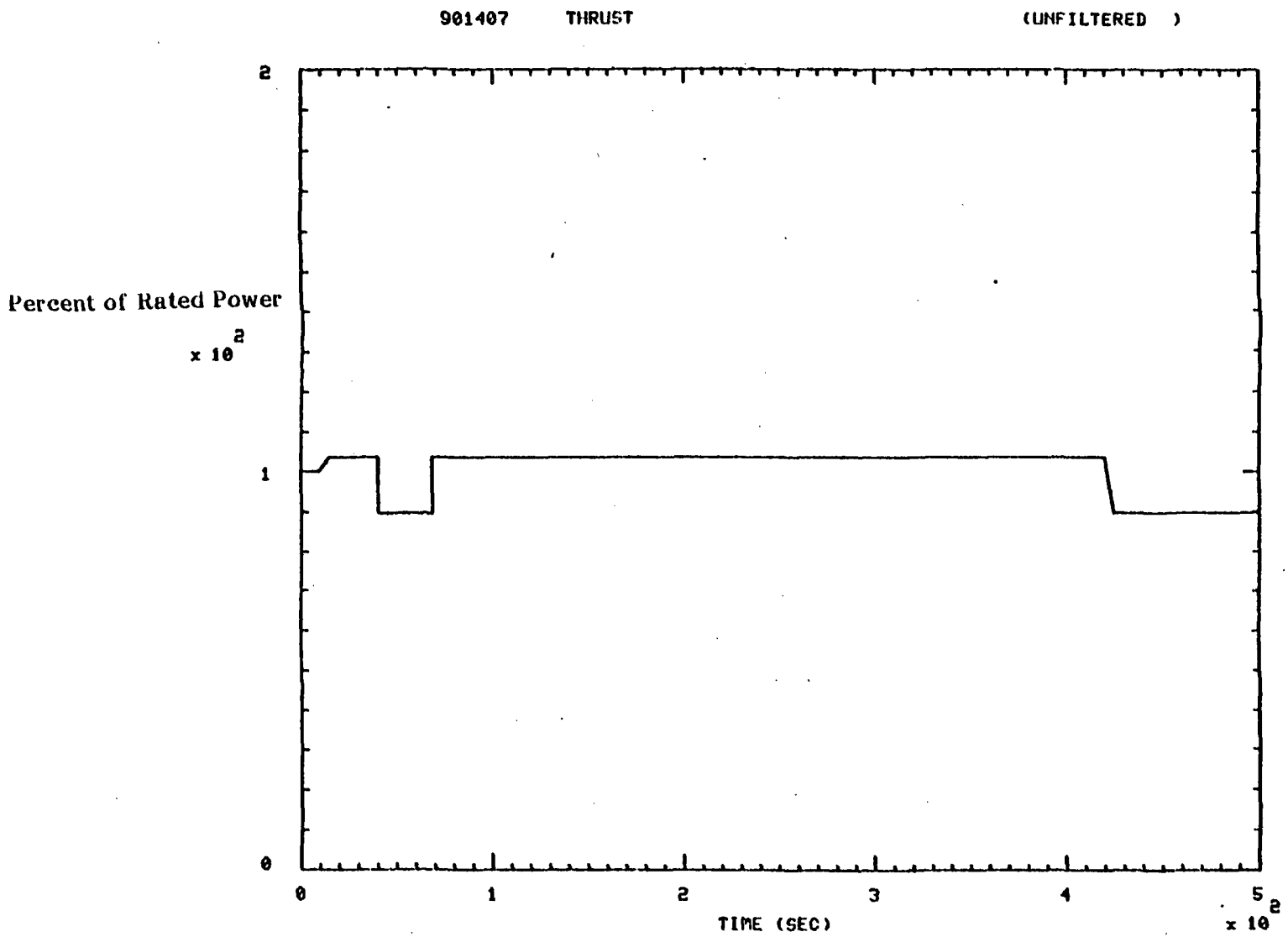

901404 FPB PC
S+ 20.0
P
S
Q
/
H
Z
10^-1
10^-2
10^-3
10^-4
10^-5
10^-6
0
1
2
FREQUENCY (HZ)
x 10^4

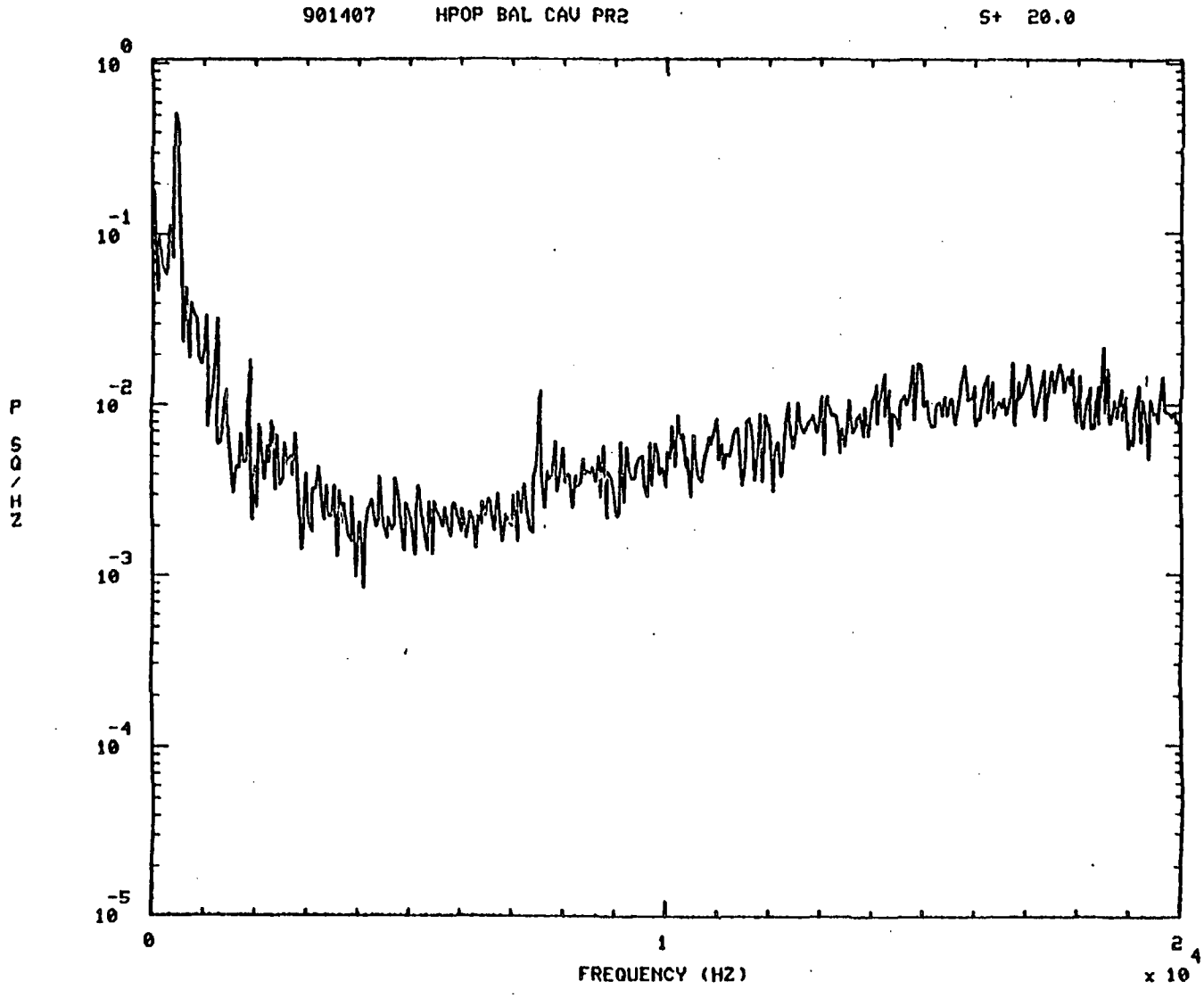

901404 FPB PC
S+ 100.0
P
S
Q
/
H
Z
10^-1
10^-2
10^-3
10^-4
10^-5
10^-6
0
1
2
FREQUENCY (HZ)
x 10^4

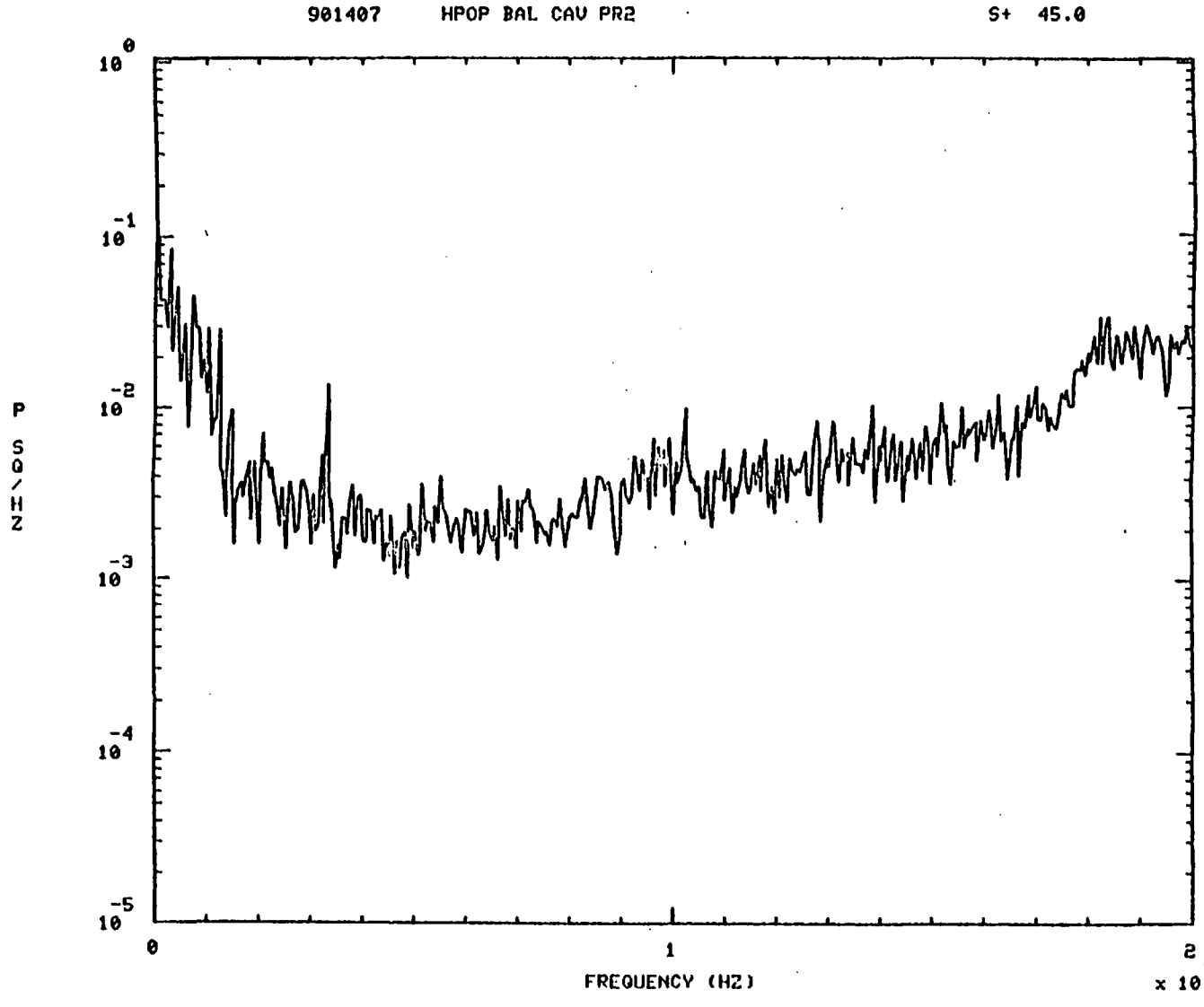

901404 FPB PC
S+ 220.0
P S Q / H Z
10^-1
10^-2
10^-3
10^-4
10^-5
10^-6
0
1
2
FREQUENCY (HZ)
x 10^4

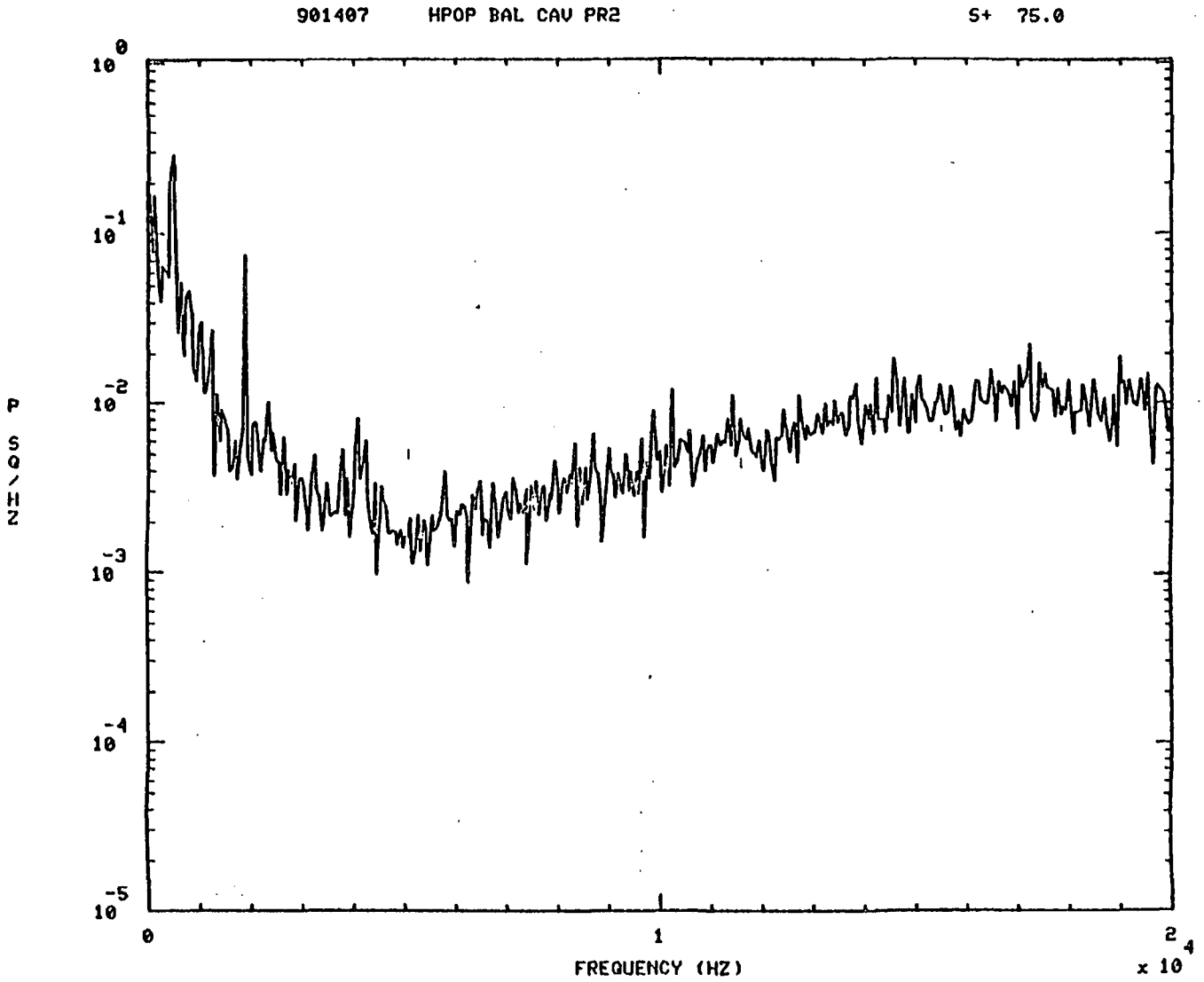

901405 THRUST (UNFILTERED)
Percent of Rated Power
x 10^2
2
1
0
0
1
2
3
4
5
TIME (SEC)
x 10^2

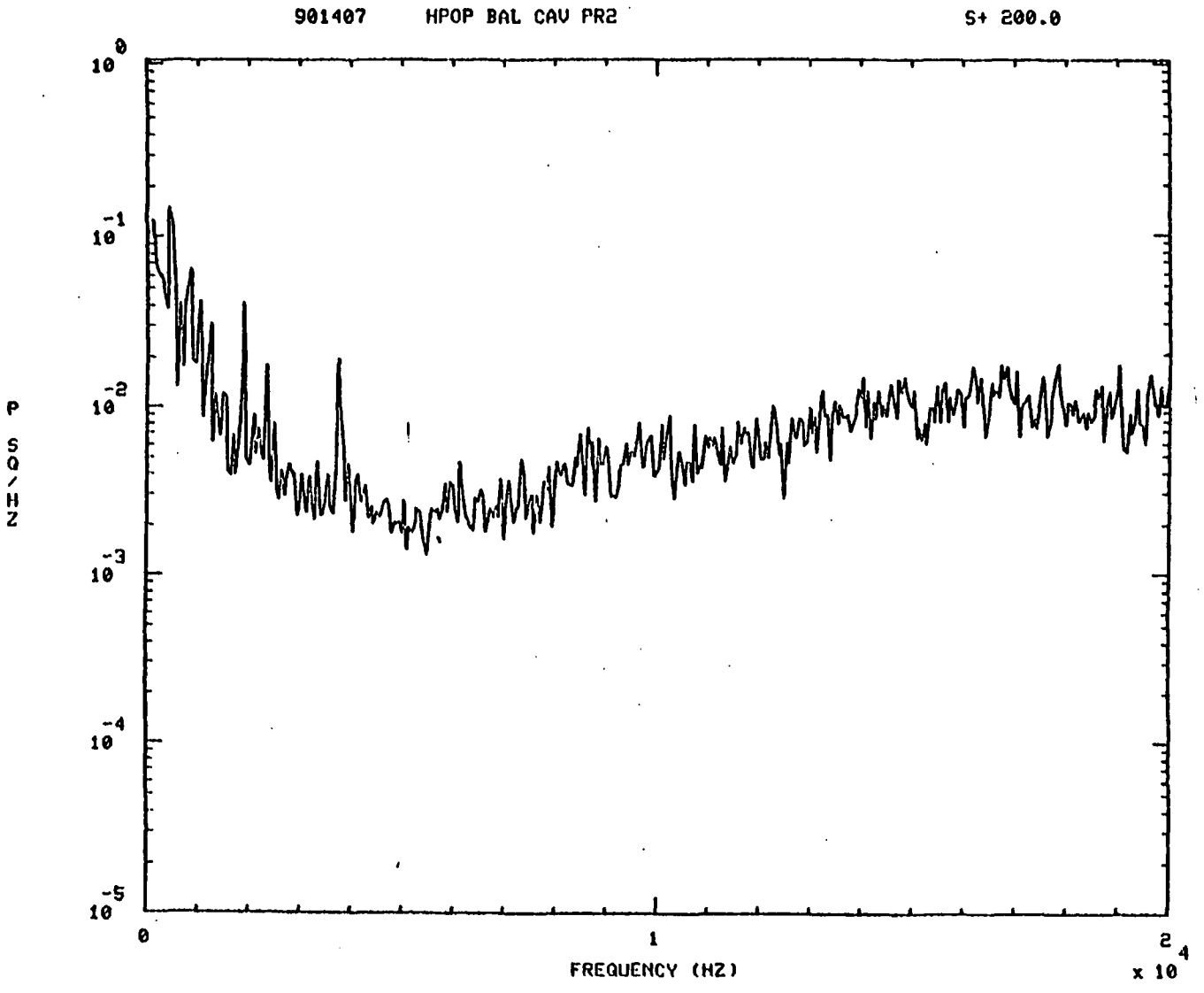

901406 THRUST
(UNFILTERED)
Percent of Rated Power
x 10 2
2
1
0
0
1
2
3
4
5
6
7
TIME (SEC)
x 10 1

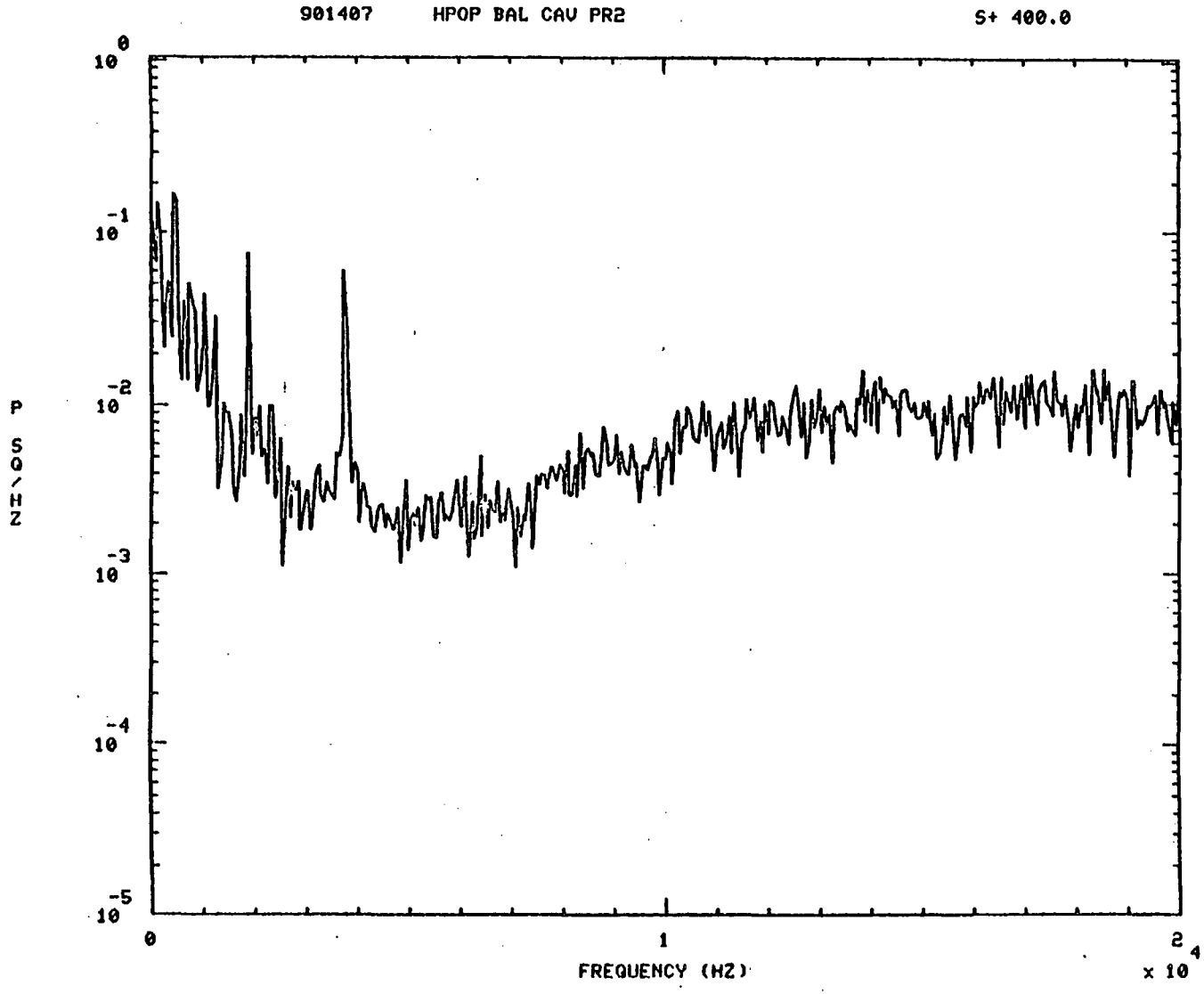

901407 THRUST (UNFILTERED)
Percent of Rated Power
x 10 2
2
1
0
0
1
2
3
4
5
TIME (SEC)
x 10 2

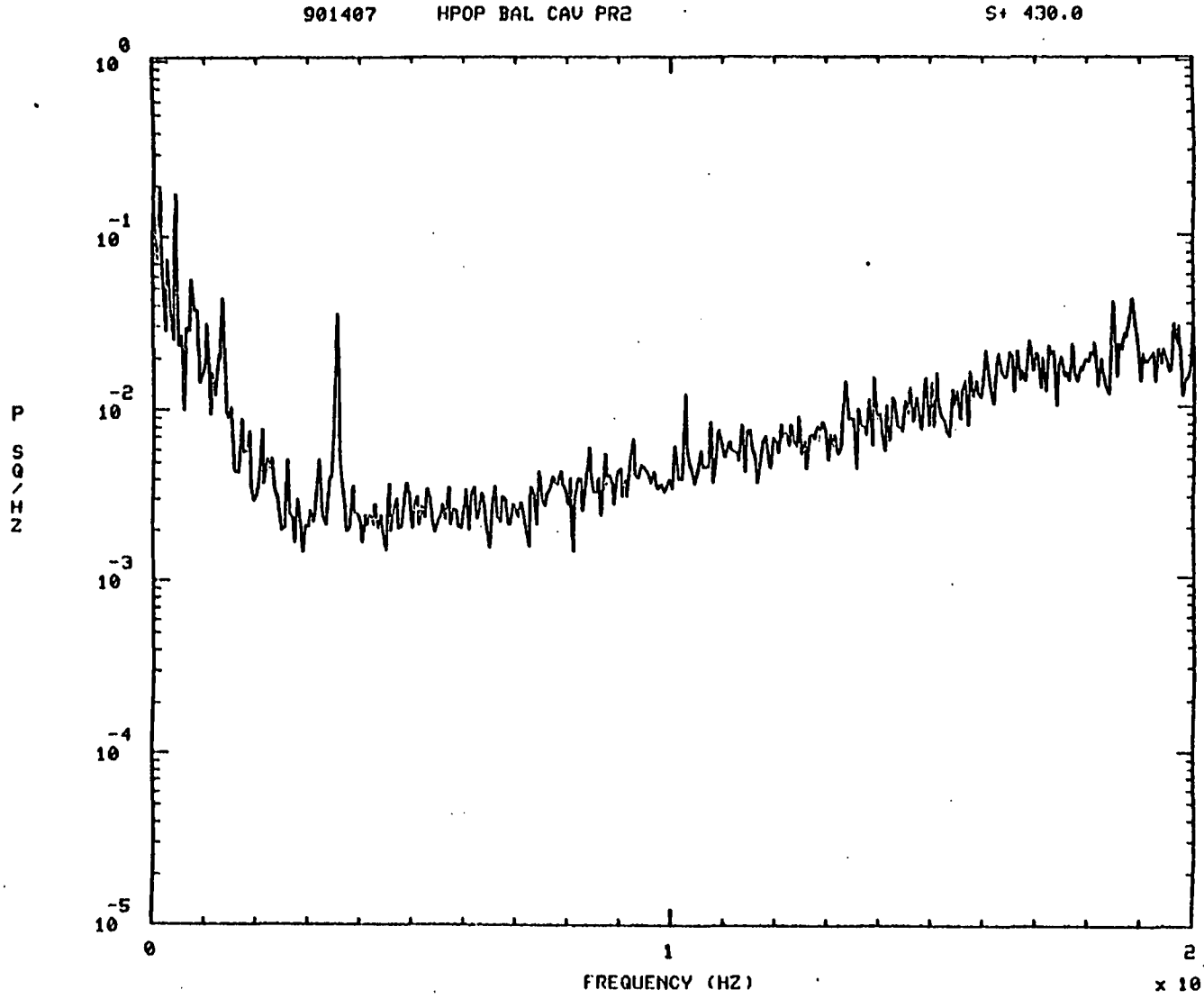

901407 HPOP BAL CAV PR2
S+ 20.0
P S Q / H Z
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
FREQUENCY (HZ)
x 10^4

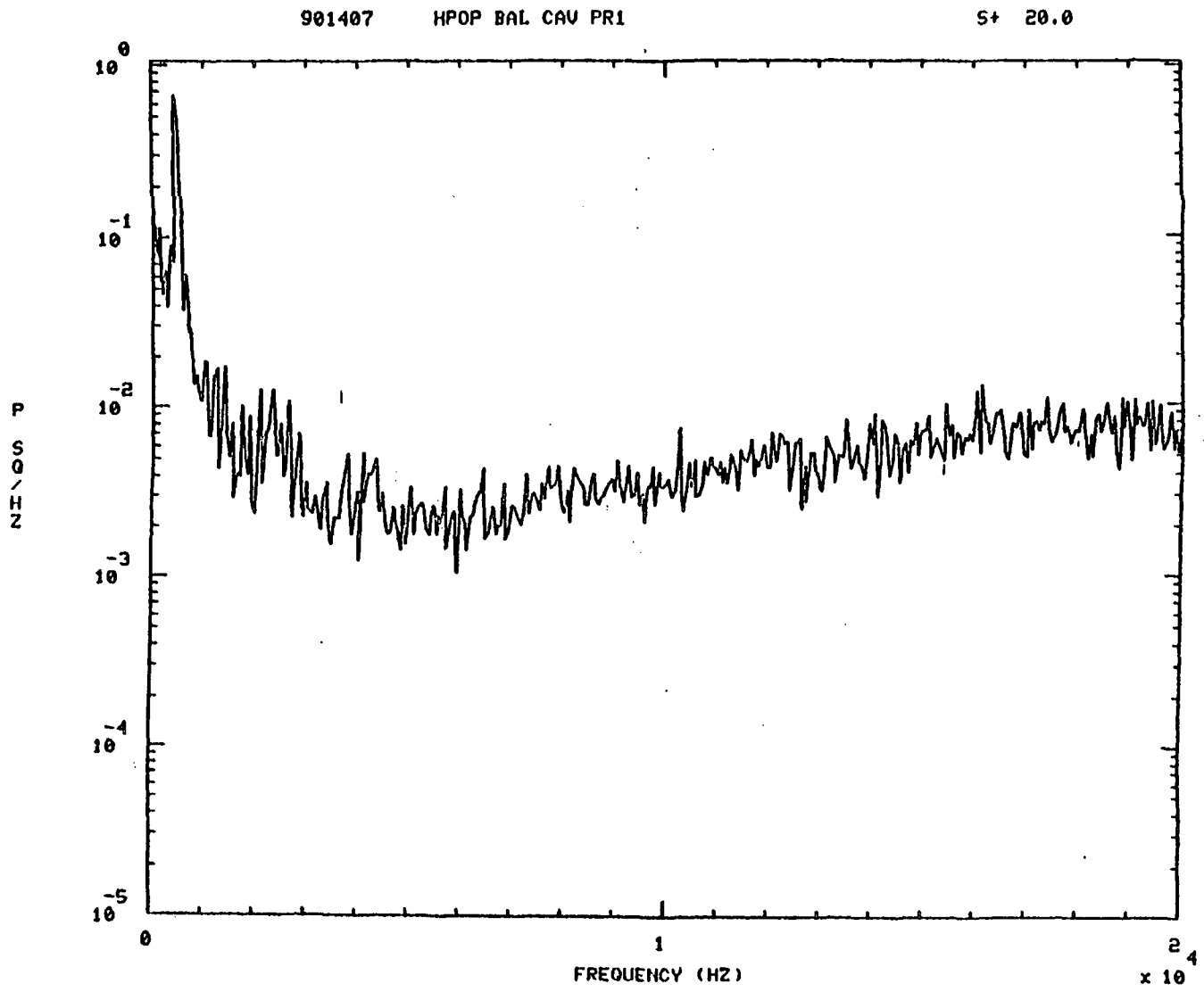

901407 HPOP BAL CAV PR2
S+ 45.0
P
S
Q
/
H
Z
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
4
x 10
FREQUENCY (HZ)

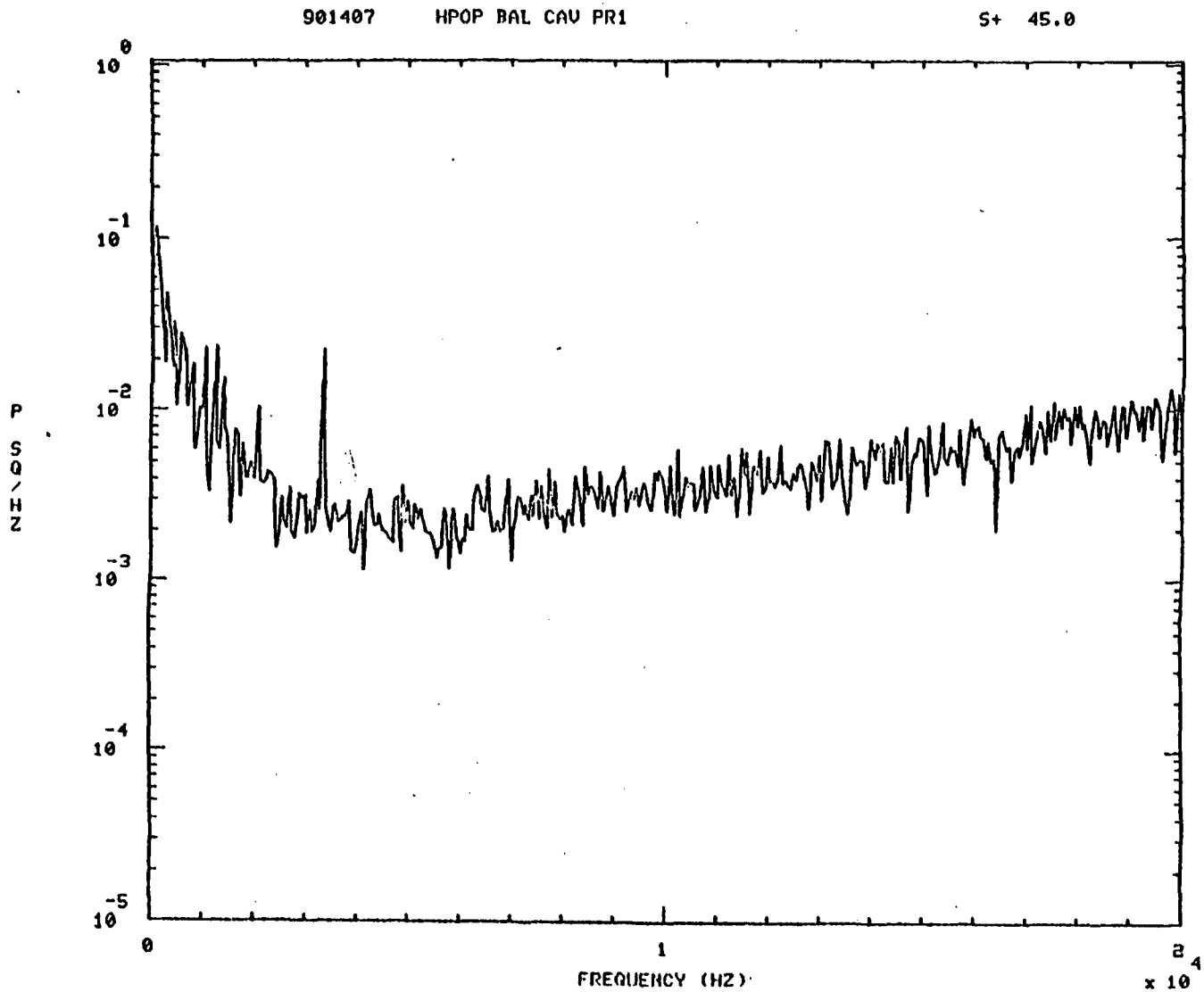

901407 HPOP BAL CAV PR2
S+ 75.0
P S Q \ H Z
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
FREQUENCY (HZ)
x 10^4

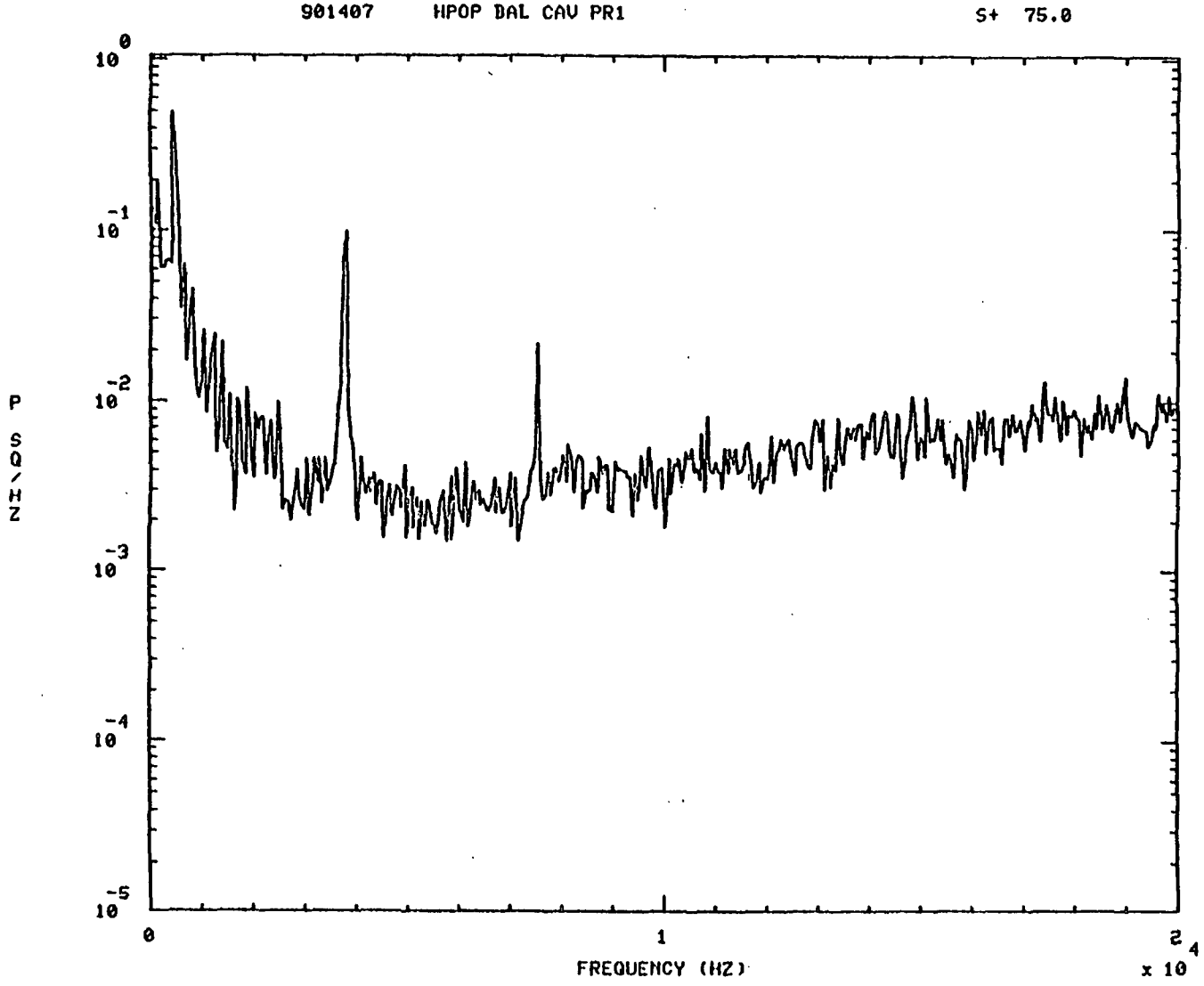

901407 HPOP BAL CAV PR2
S+ 200.0
P S Q / H Z
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
FREQUENCY (HZ)
x 10^4

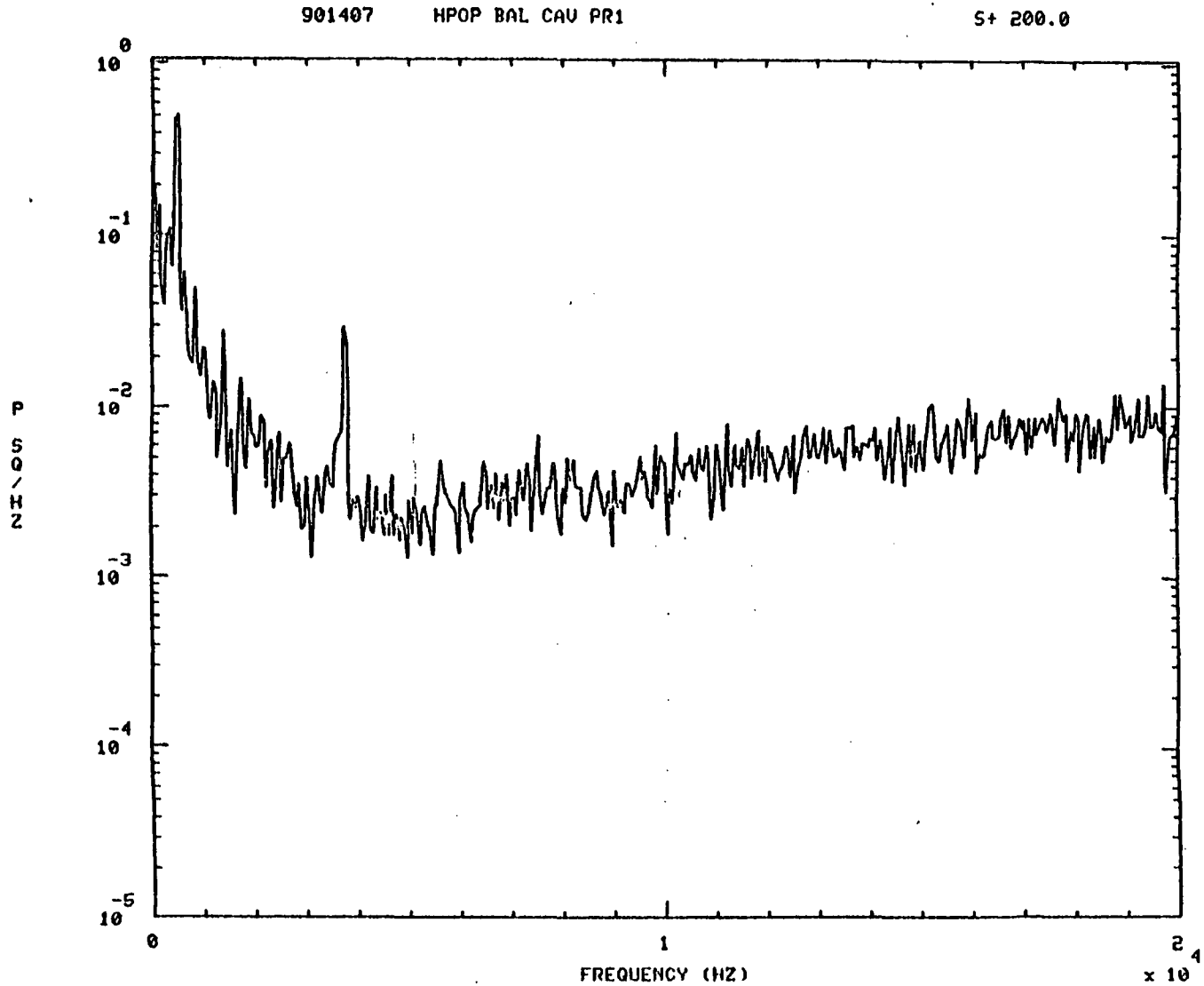

901407 HPOP BAL CAV PR2
S+ 400.0
P
S
Q
/
H
Z
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
FREQUENCY (HZ)
x 10^4

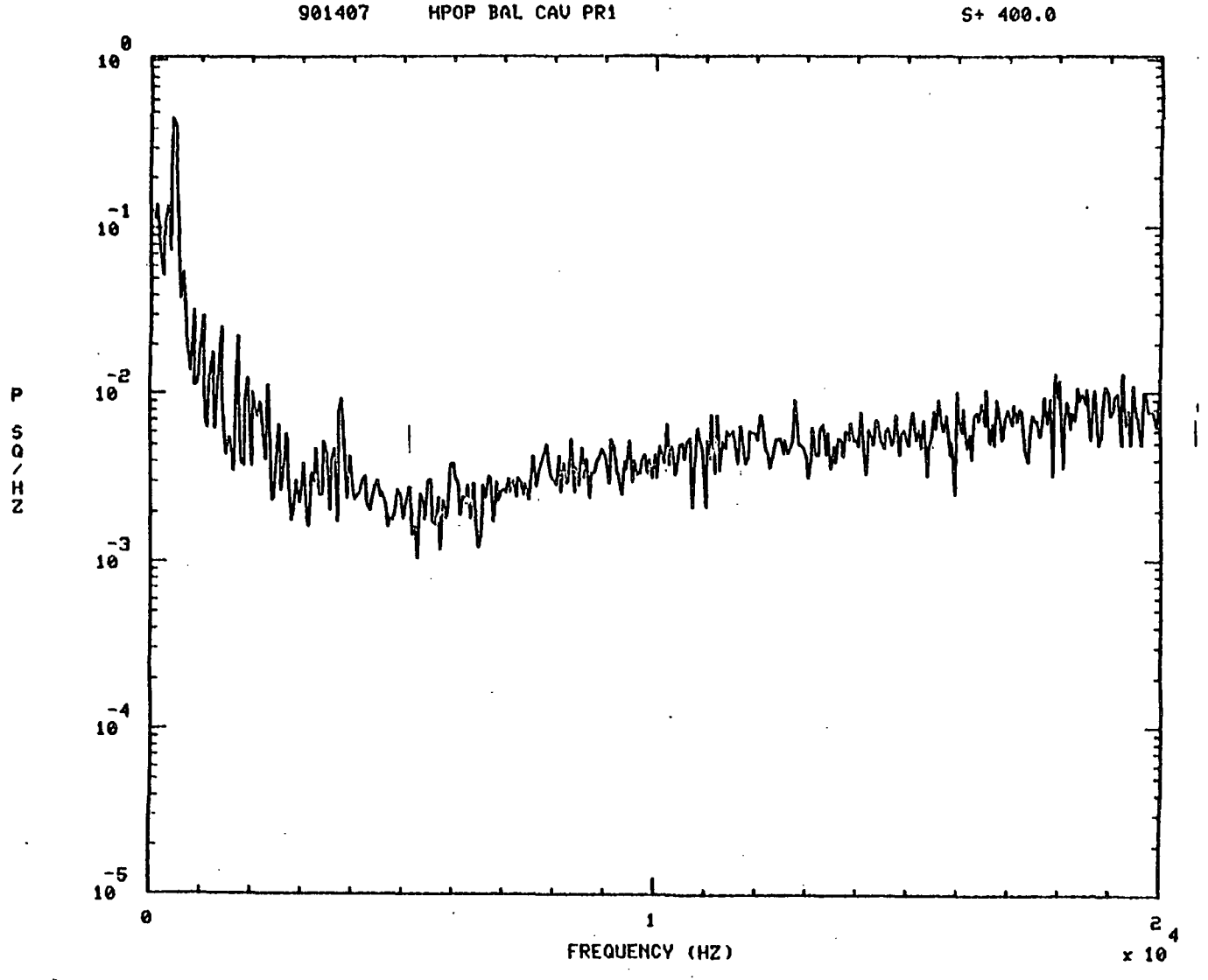

901407 HPOP BAL CAV PR2
S+ 430.0
P
S
Q
/
H
Z
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
FREQUENCY (HZ)
x 10^4

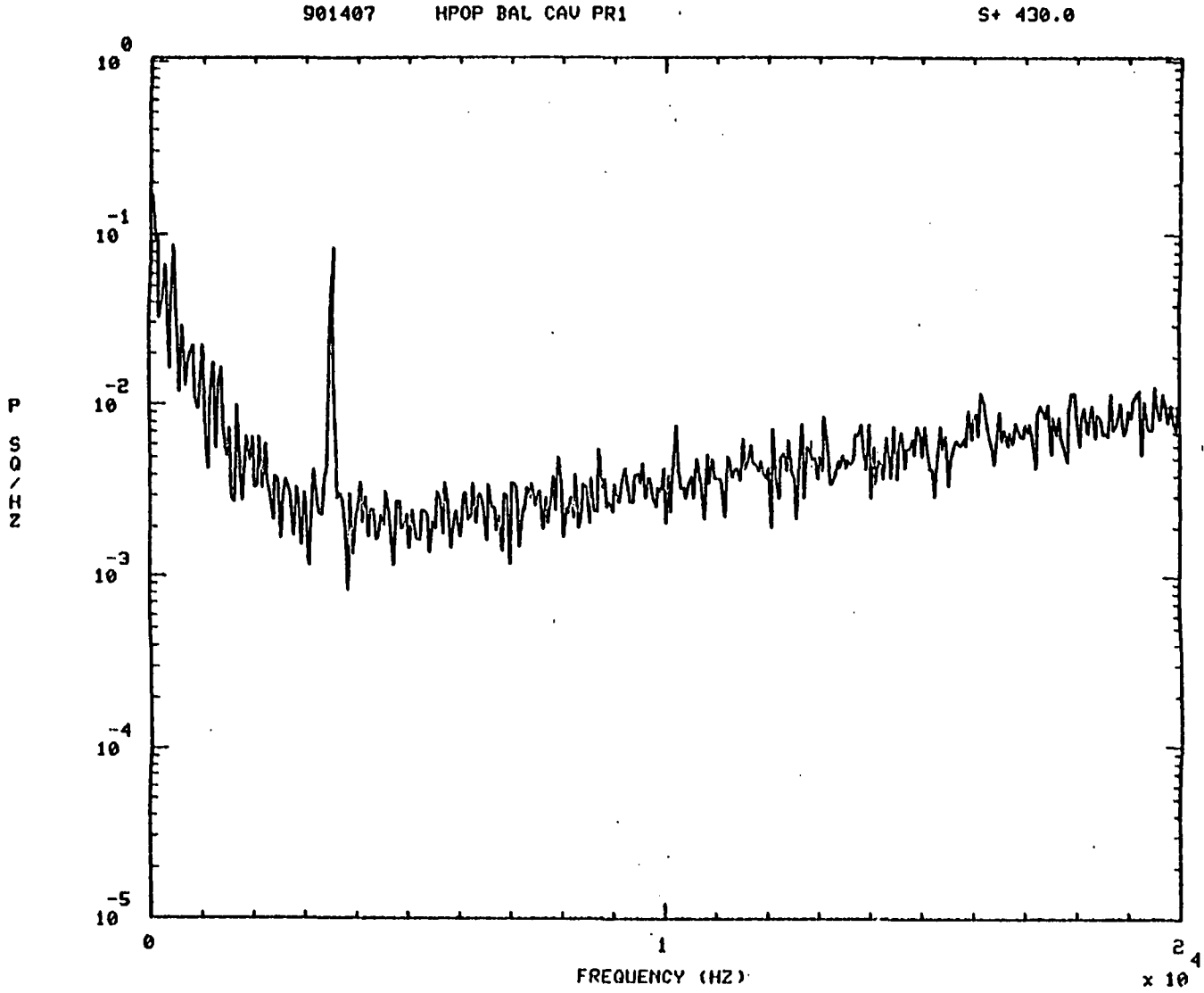

901407 HPOP BAL CAV PR1
S+ 20.0
P
S
Q
/
H
Z
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
4
x 10
FREQUENCY (HZ)

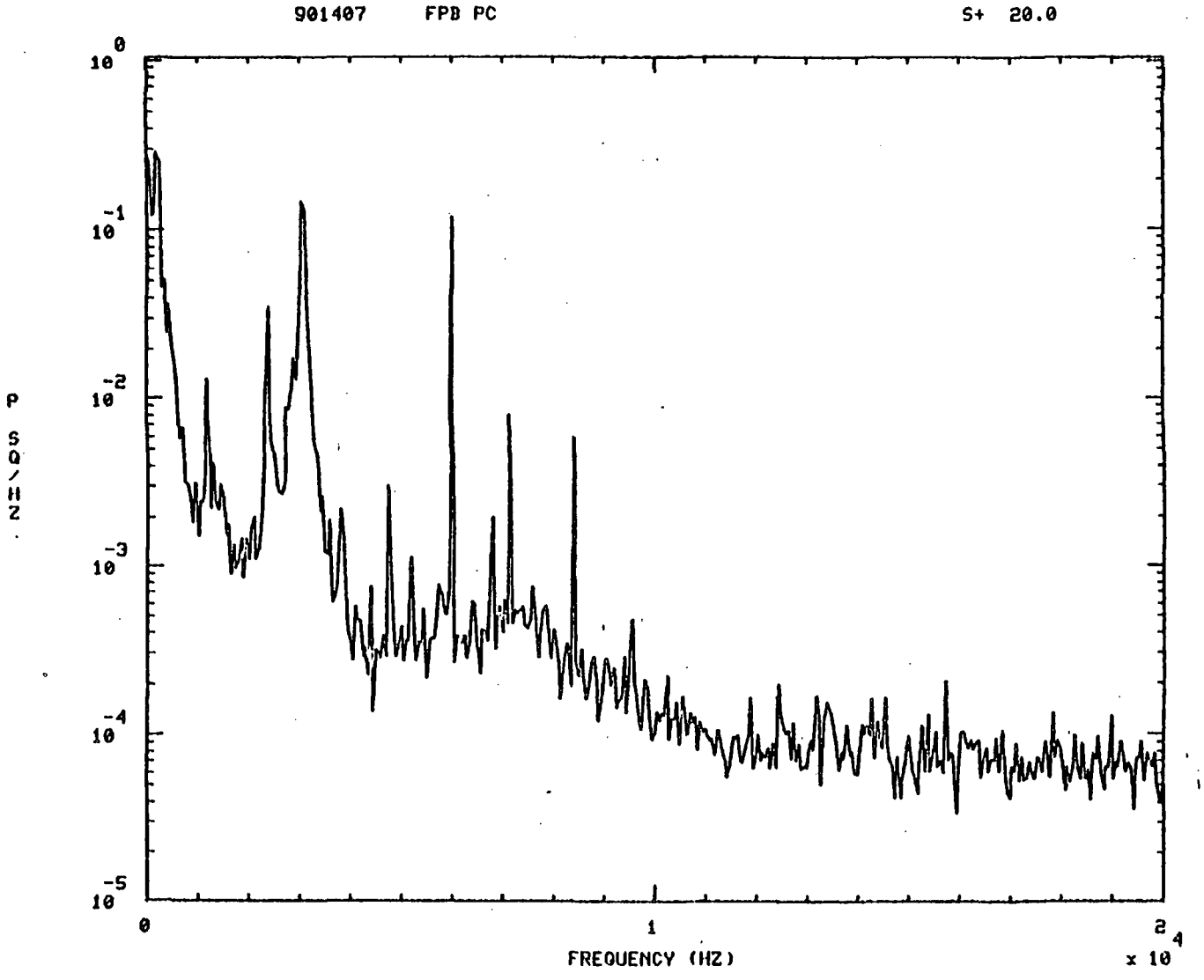

901407 HPOP BAL CAV PR1
S+ 45.0
P SQ\HZ
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
FREQUENCY (HZ)
x 10^4

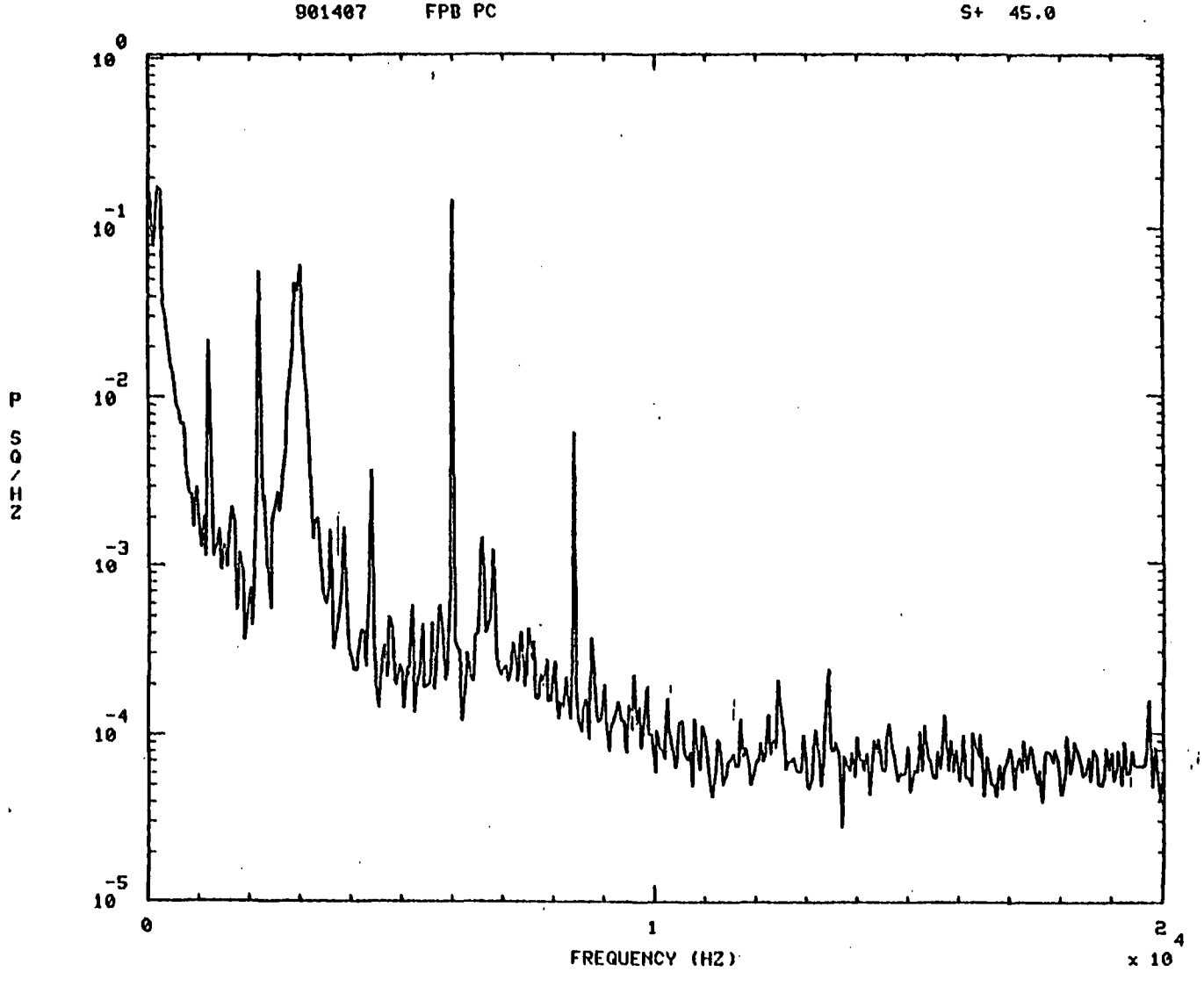

901407 HPOP DAL CAV PR1
S+ 75.0
P SQ\HZ
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
FREQUENCY (HZ)
x 10^4

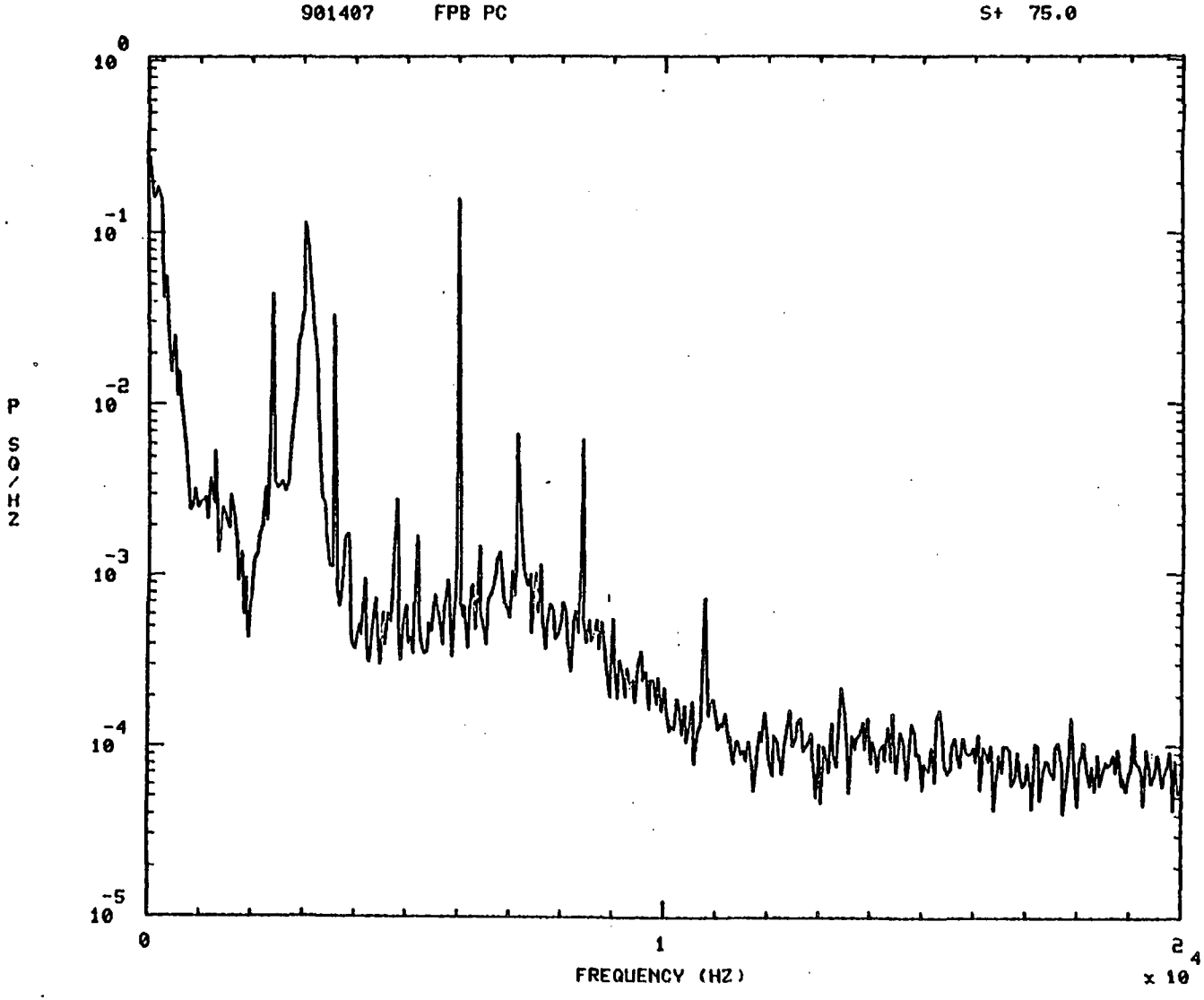

901407 HPOP BAL CAV PR1
S+ 200.0
P SQ\HZ
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
FREQUENCY (HZ)
x 10^4

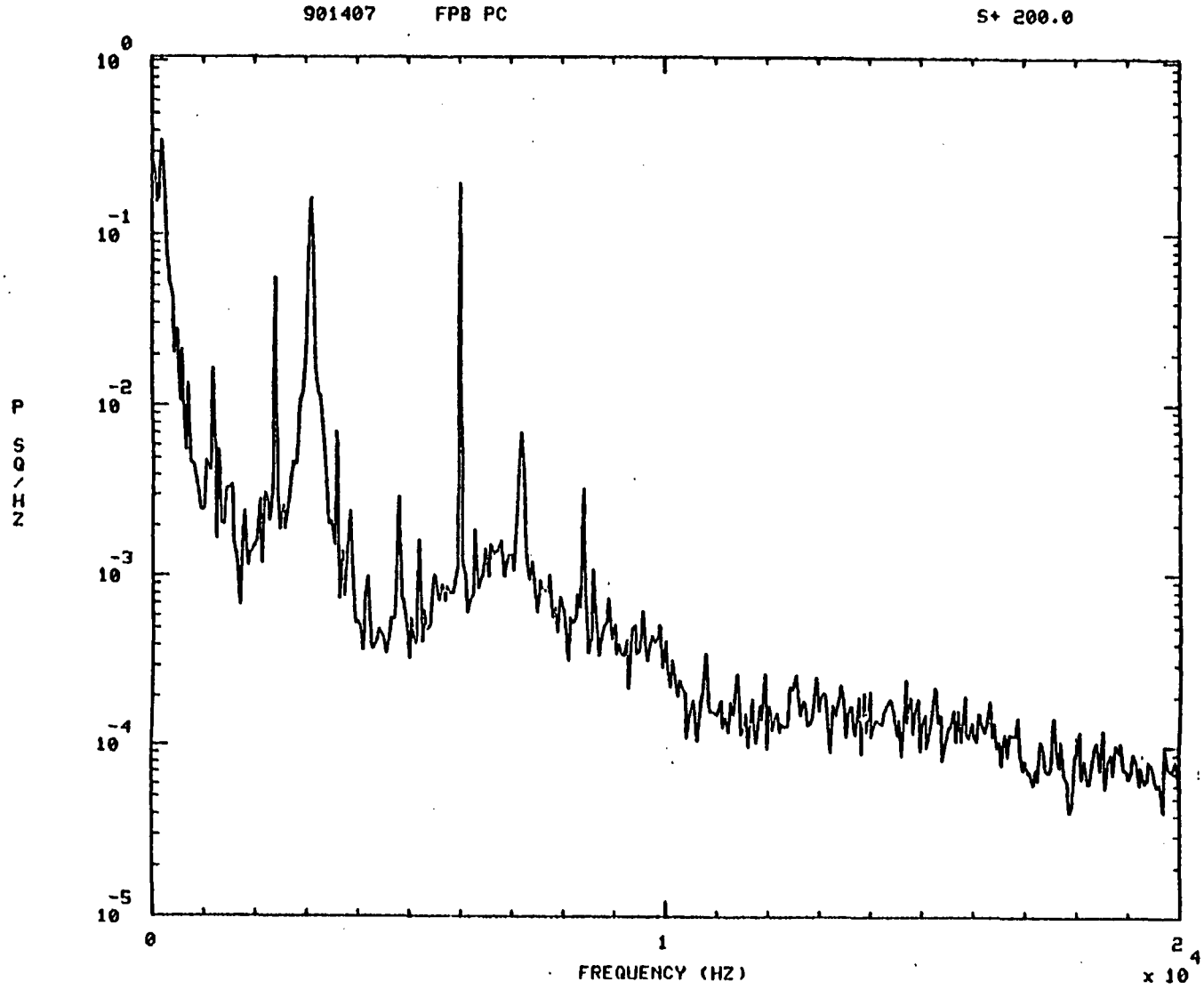

901407 HPOP BAL CAV PR1
S+ 400.0
P S Q / H Z
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
FREQUENCY (HZ)
x 10^4

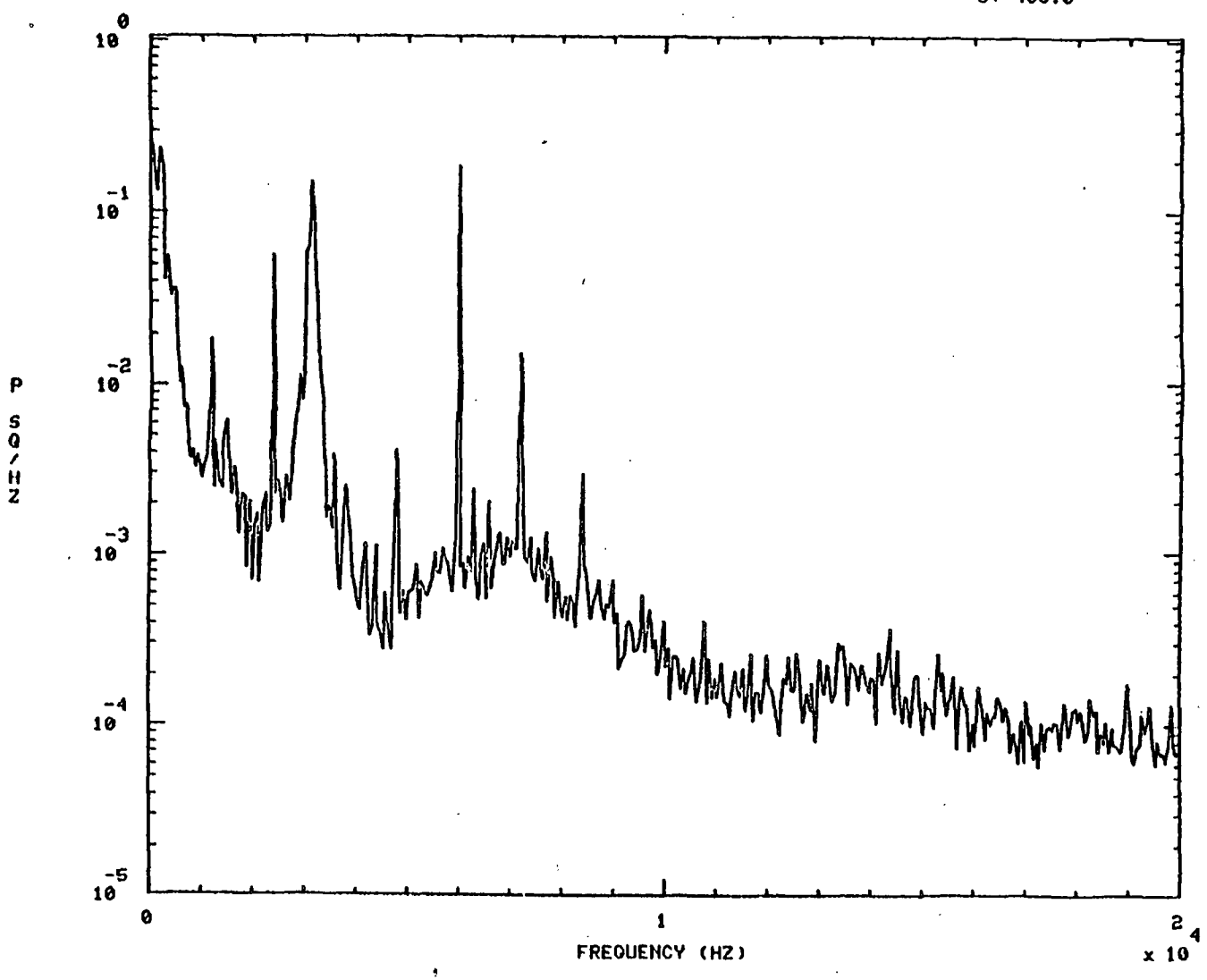

901407 HPOP BAL CAV PR1
S+ 430.0
P SQ/HZ
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
FREQUENCY (HZ)
x 10^4

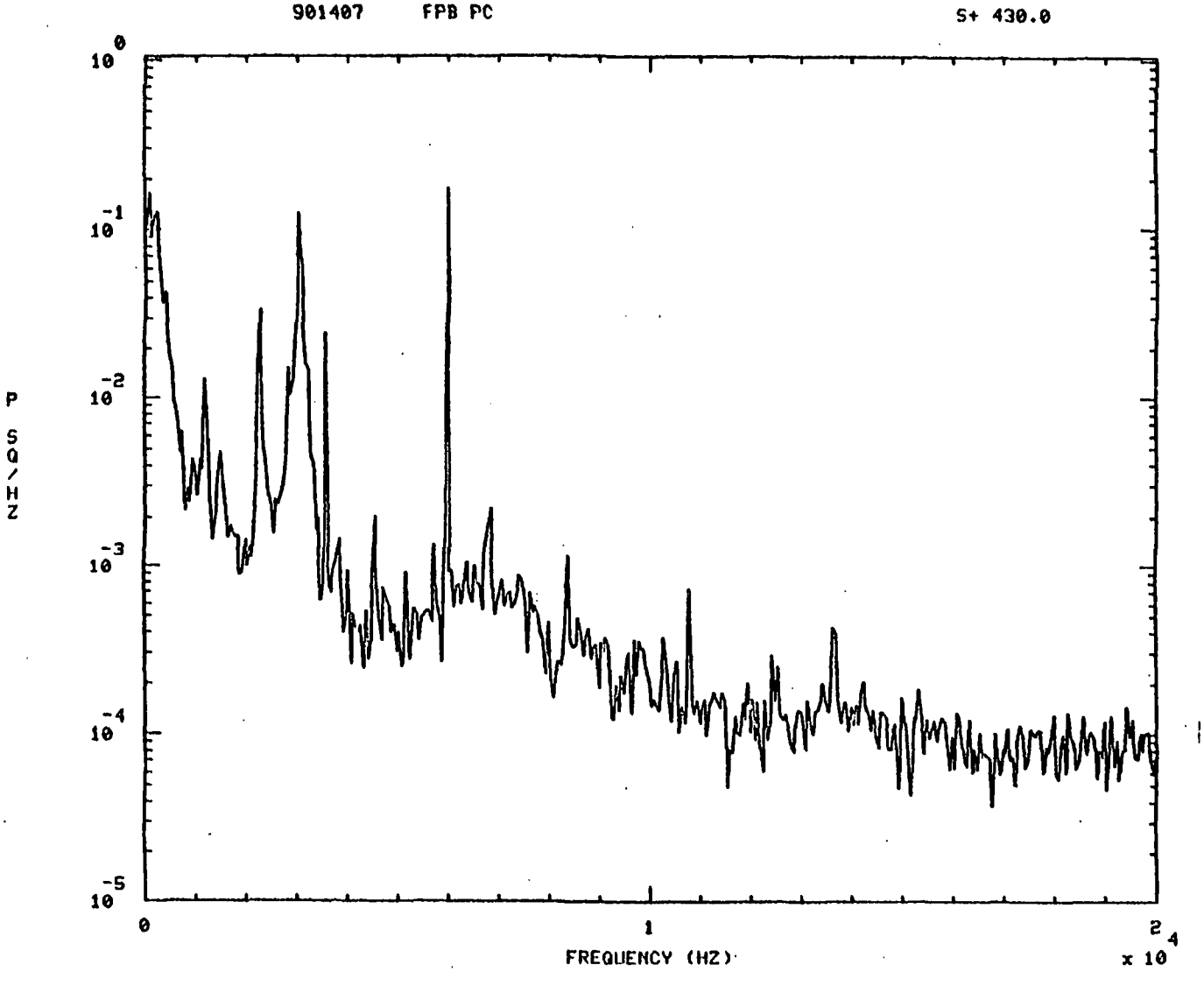

901407 FPB PC
S+ 20.0
P S Q / H Z
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
FREQUENCY (HZ)
x 10^4

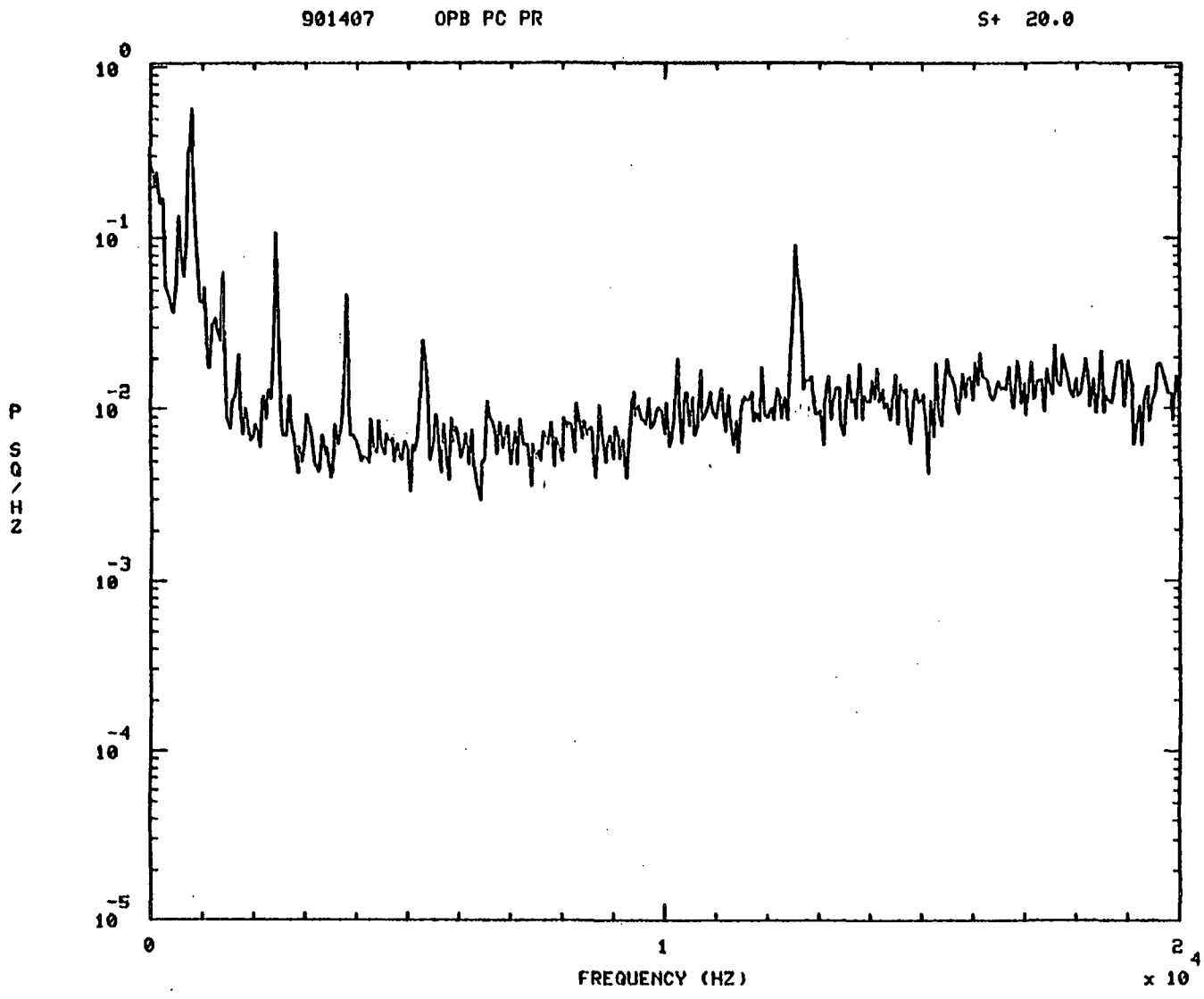

901407 FPB PC
S+ 45.0
P S Q / H Z
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
FREQUENCY (HZ)
x 10^4


901407 FPB PC
S+ 75.0
P SQ\HZ
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
FREQUENCY (HZ)
x 10^4


901407 FPB PC
S+ 200.0
P S Q \ H Z
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
FREQUENCY (HZ)
x 10^4


901407 FPB PC
S+ 400.0
P
S
Q
/
H
Z
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
4
x 10
FREQUENCY (HZ)


901407 FPB PC
S+ 430.0
P SQ\HZ
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
4
x 10
FREQUENCY (HZ)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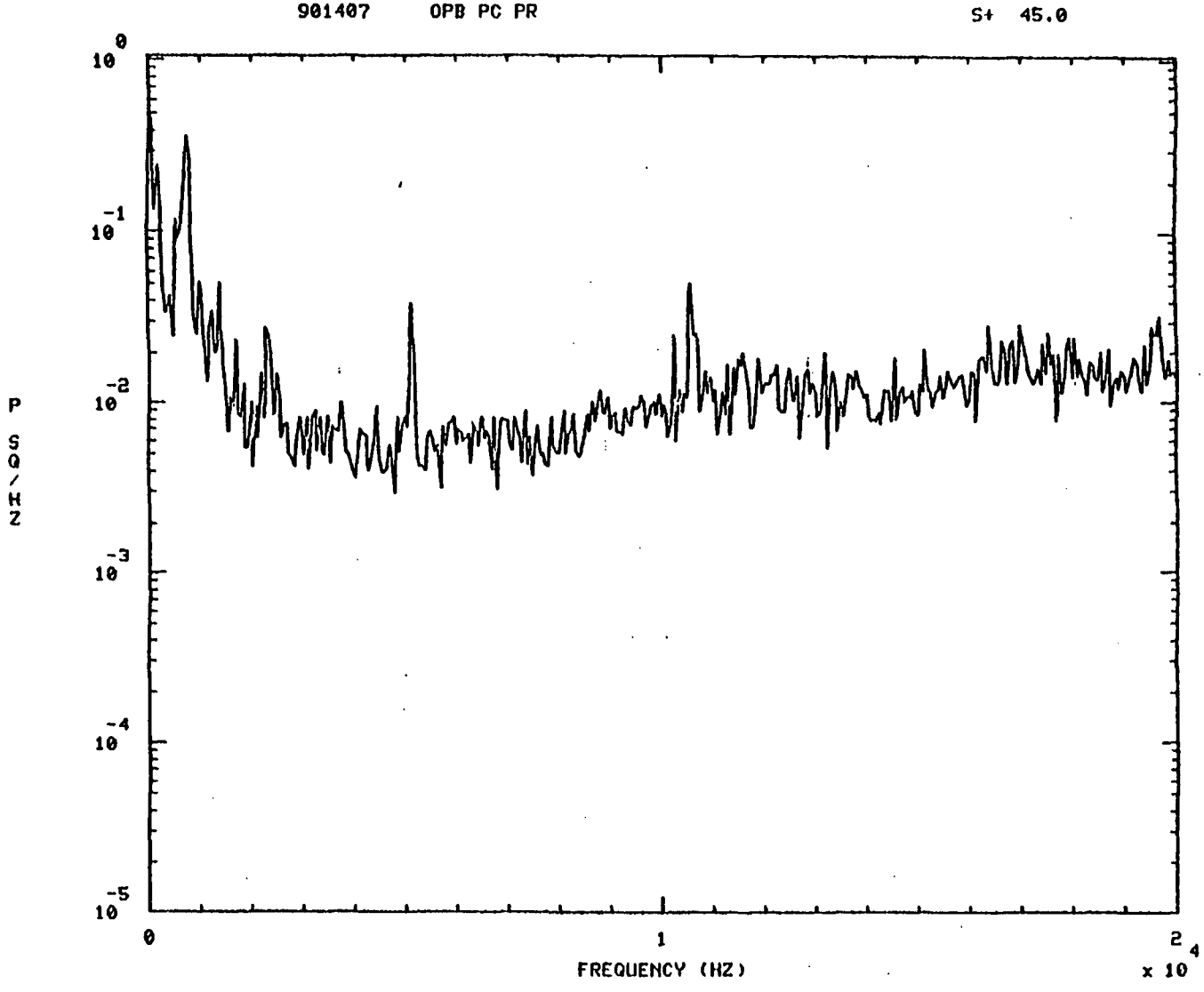
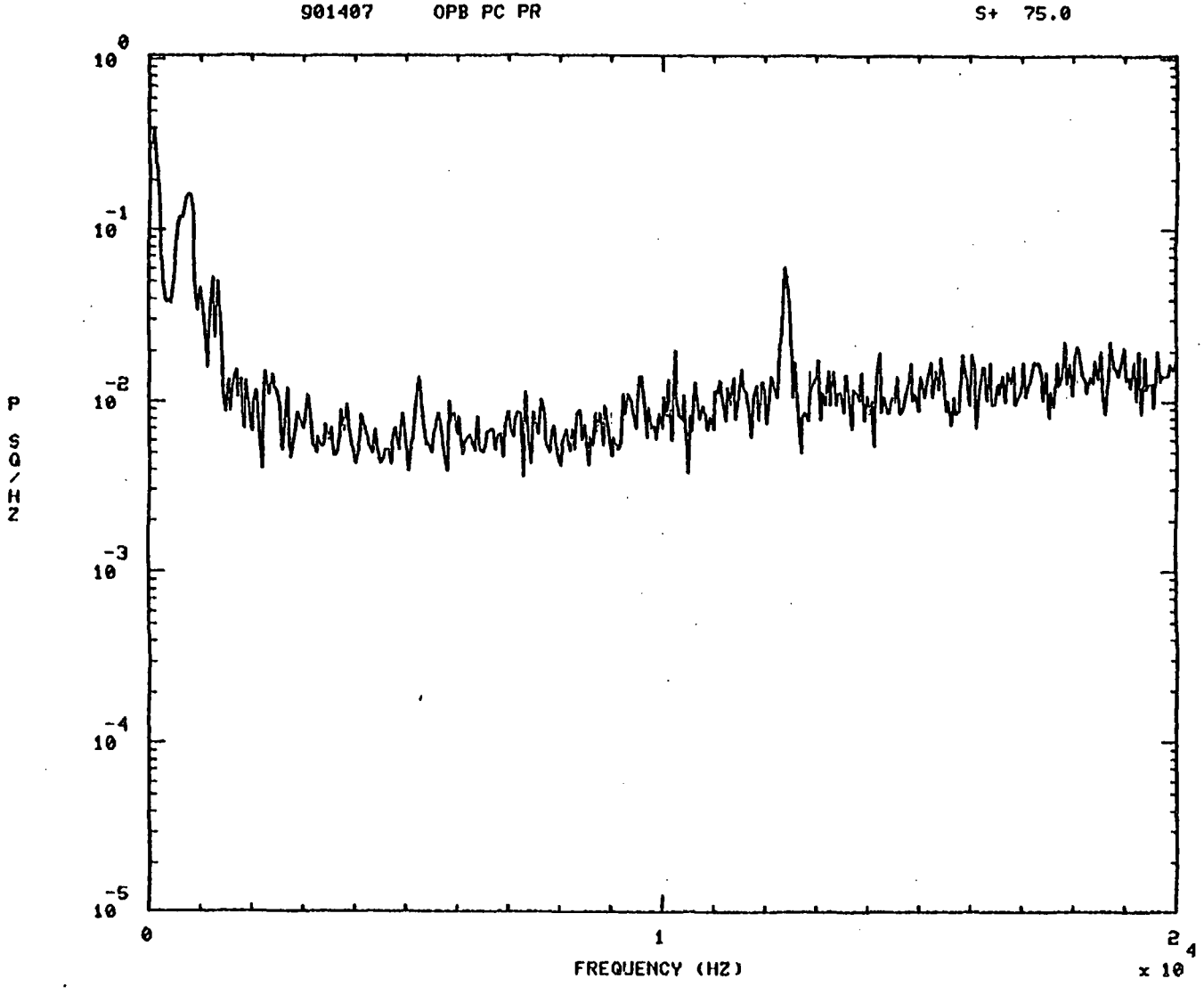
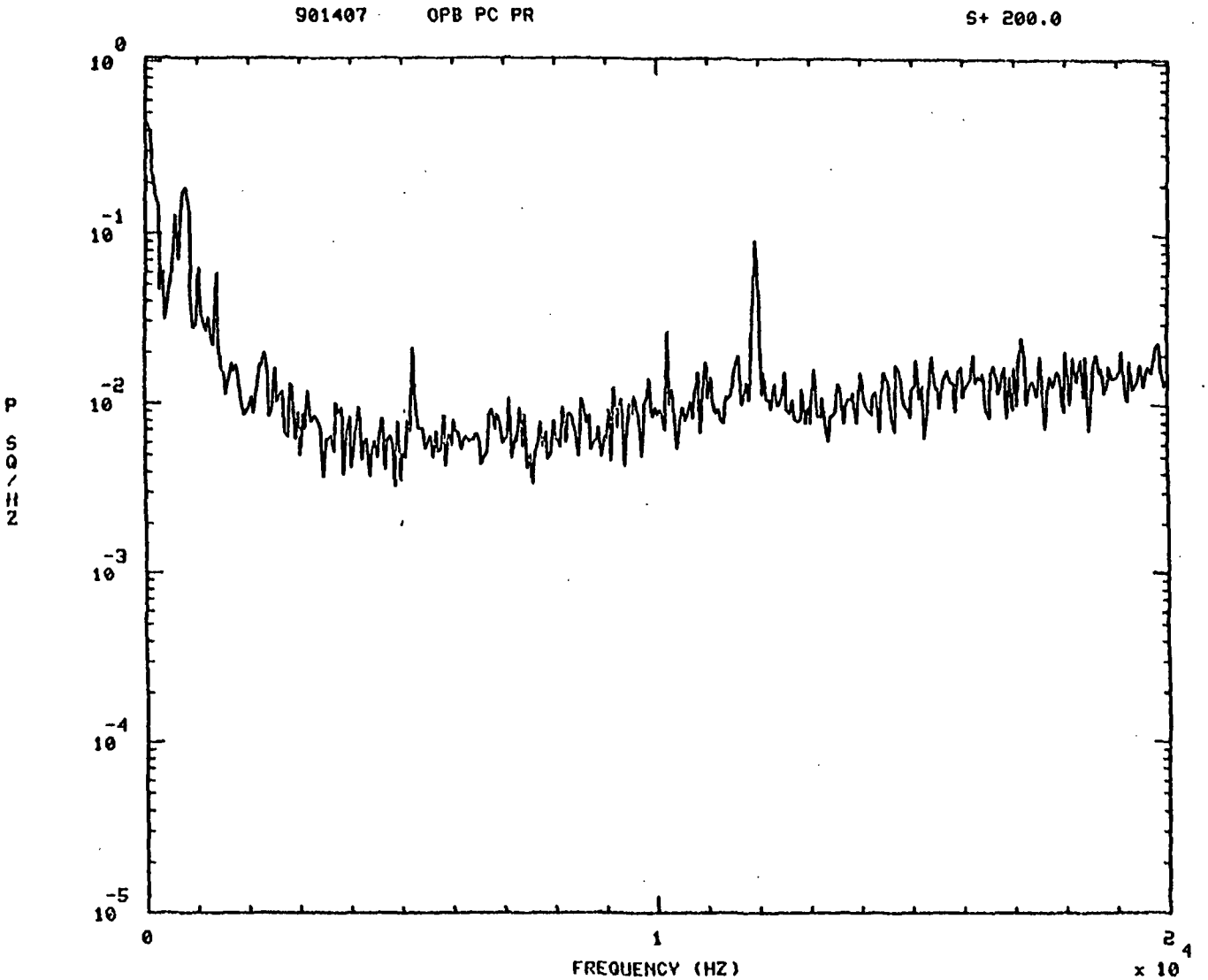
S+ 20.0
P SQ/HZ
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
FREQUENCY (HZ)
x 10^4


901407 OPB PC PR
S+ 45.0
P S Q / H Z
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
4
x 10
FREQUENCY (HZ)


901407 OPB PC PR
S+ 75.0
P SQ/HZ
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
FREQUENCY (HZ)
x 10^4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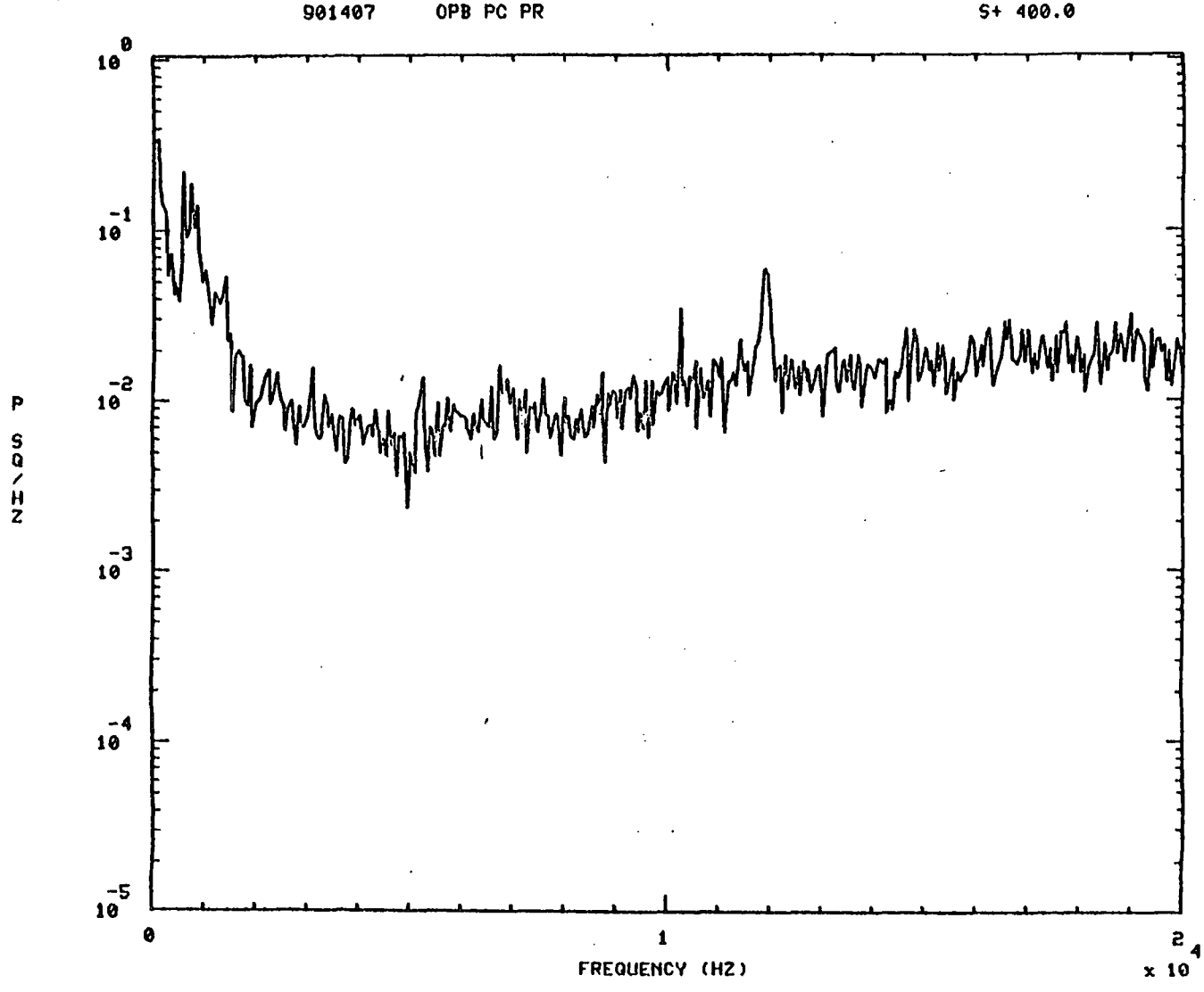
S+ 200.0
P SQ/HZ
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
FREQUENCY (HZ)
x 10^4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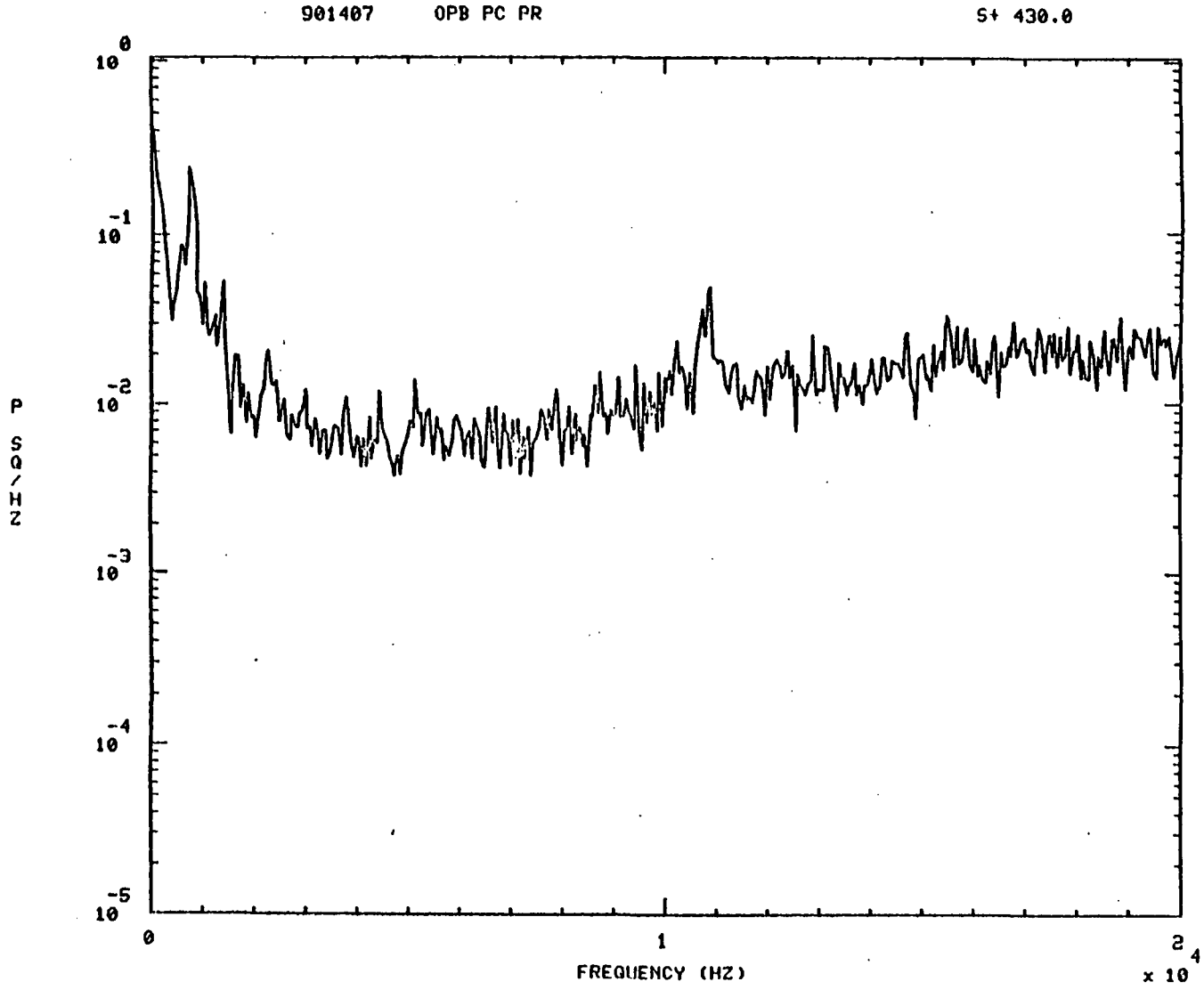
S+ 400.0
P SQ\HZ
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
FREQUENCY (HZ)
x 10^4


901407 OPB PC PR
S+ 430.0
P SQ/HZ
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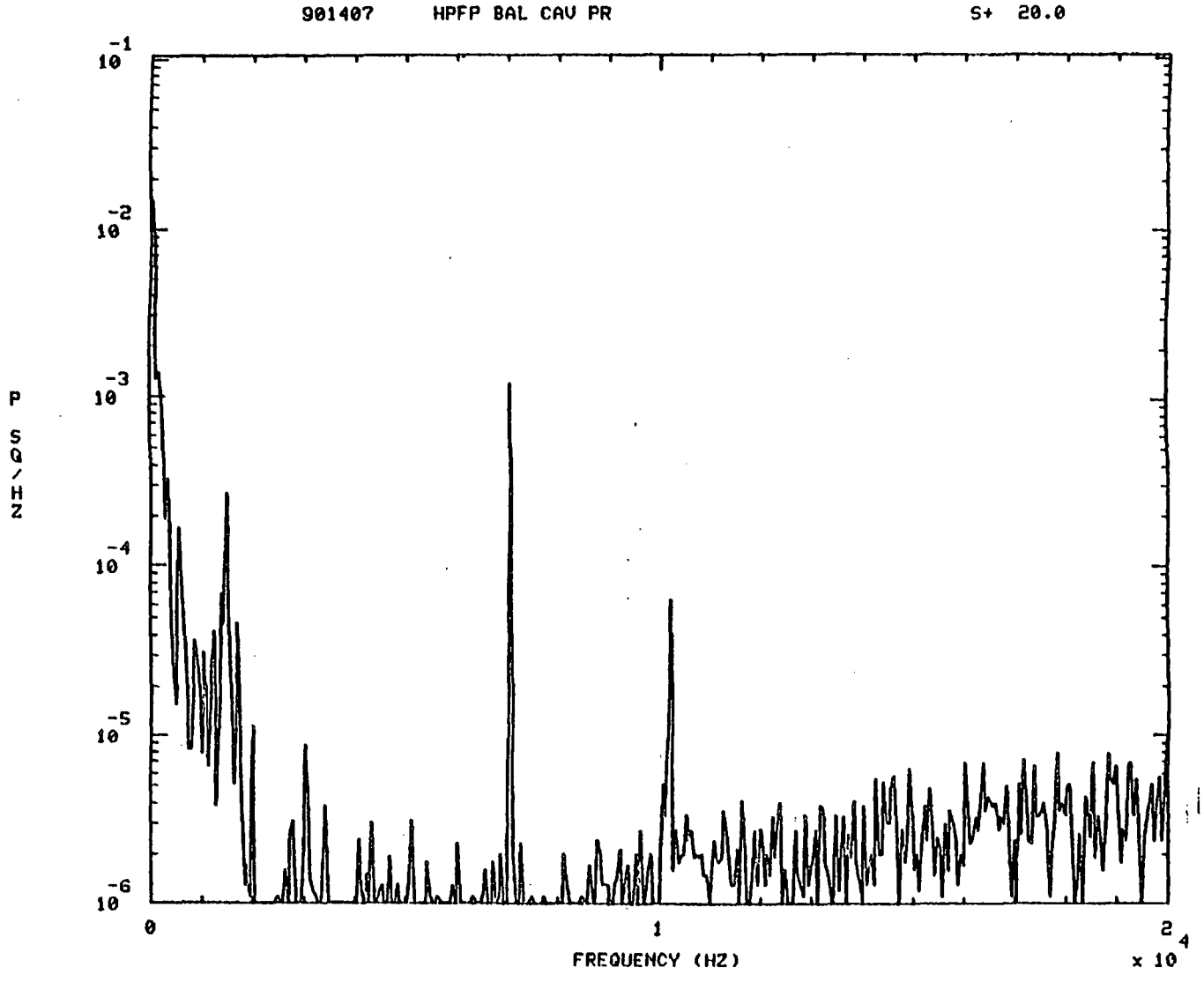
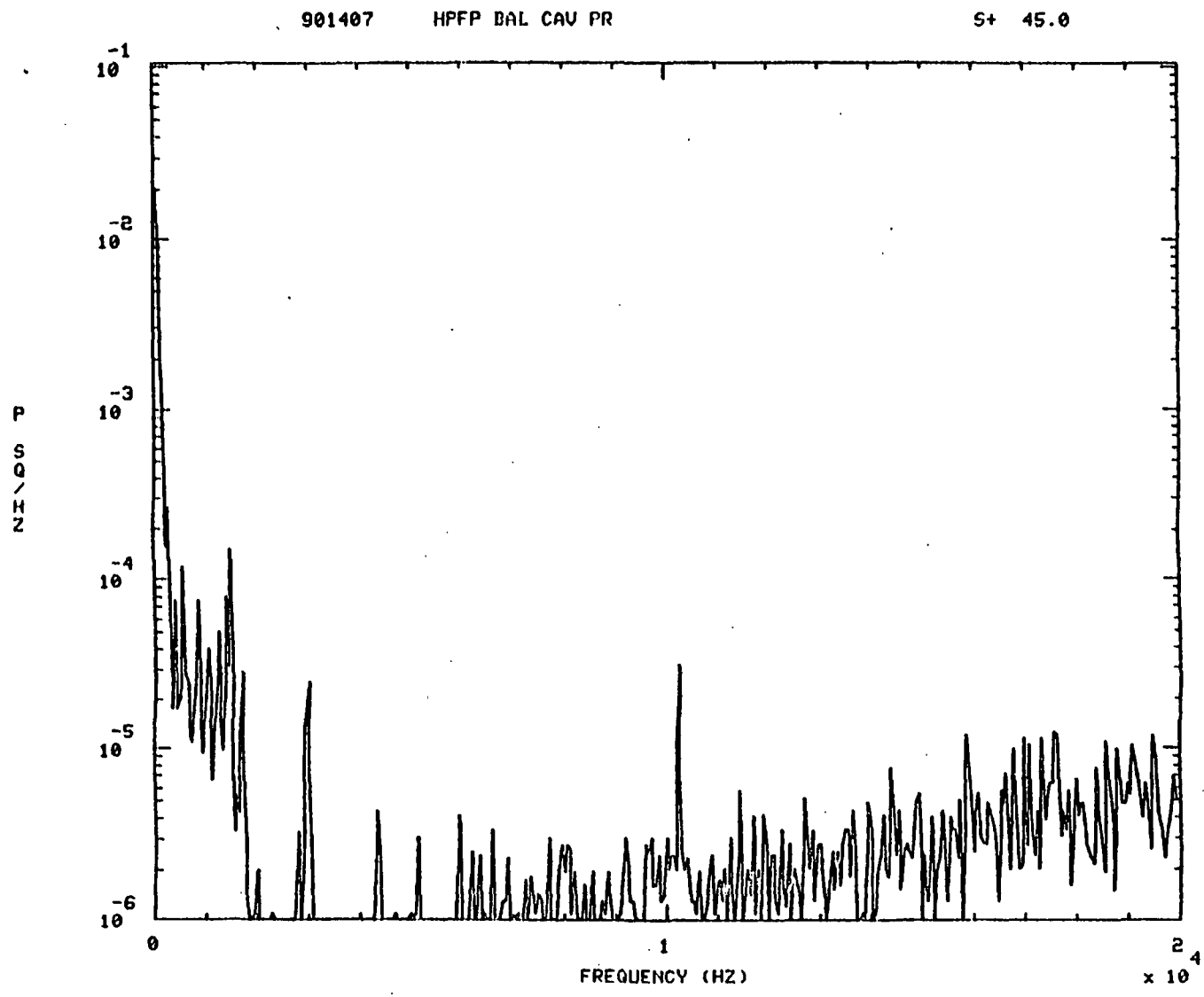
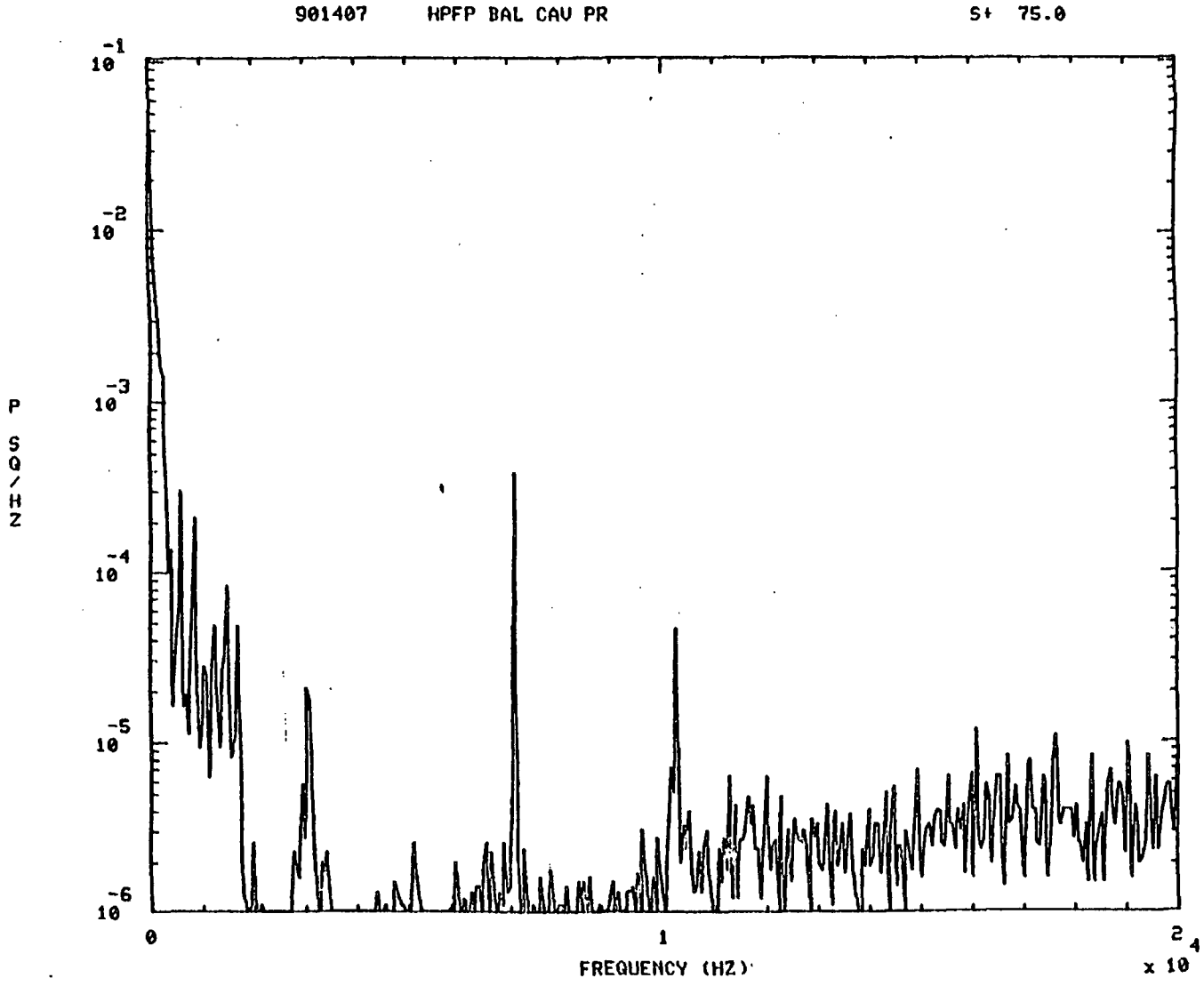
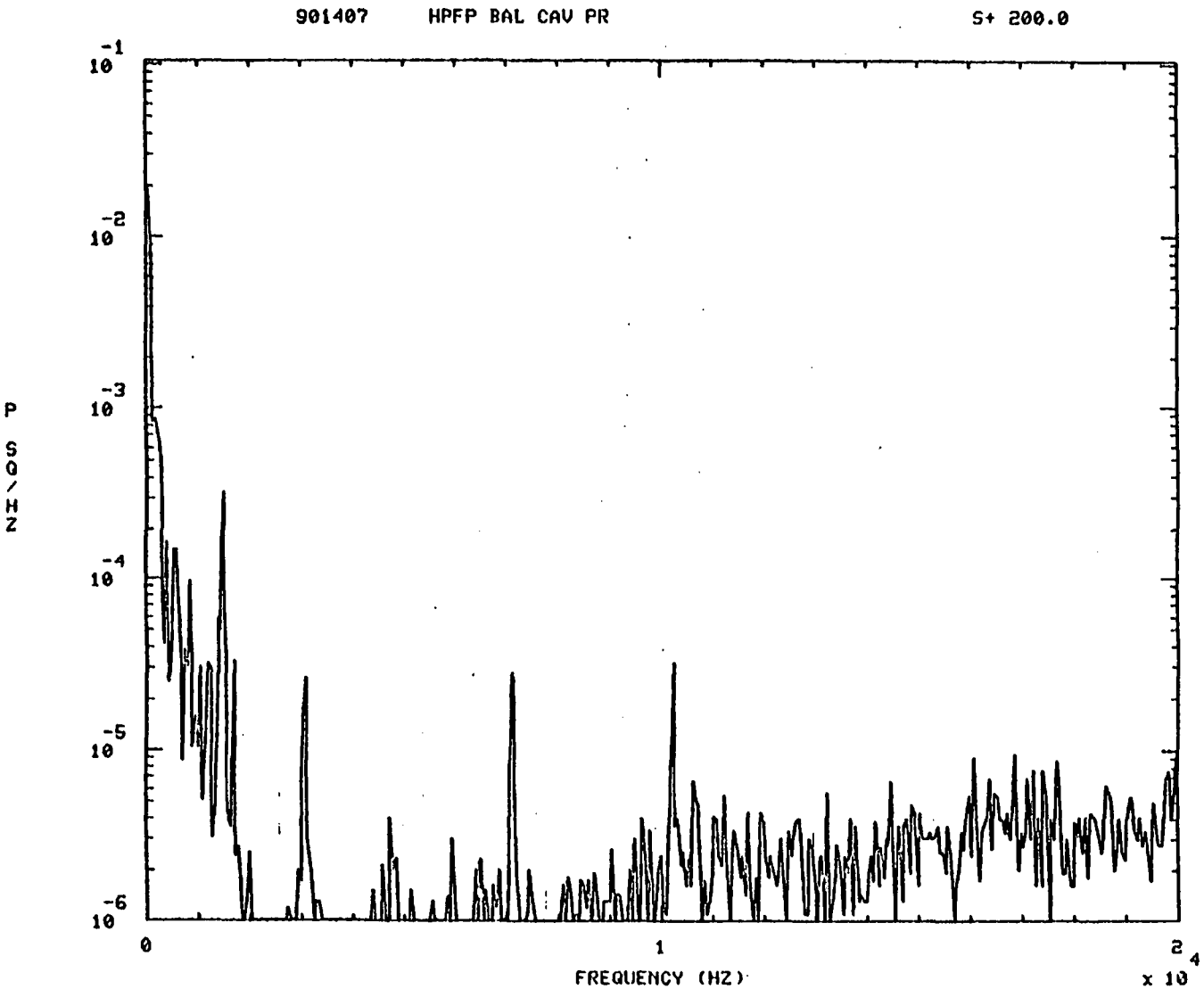
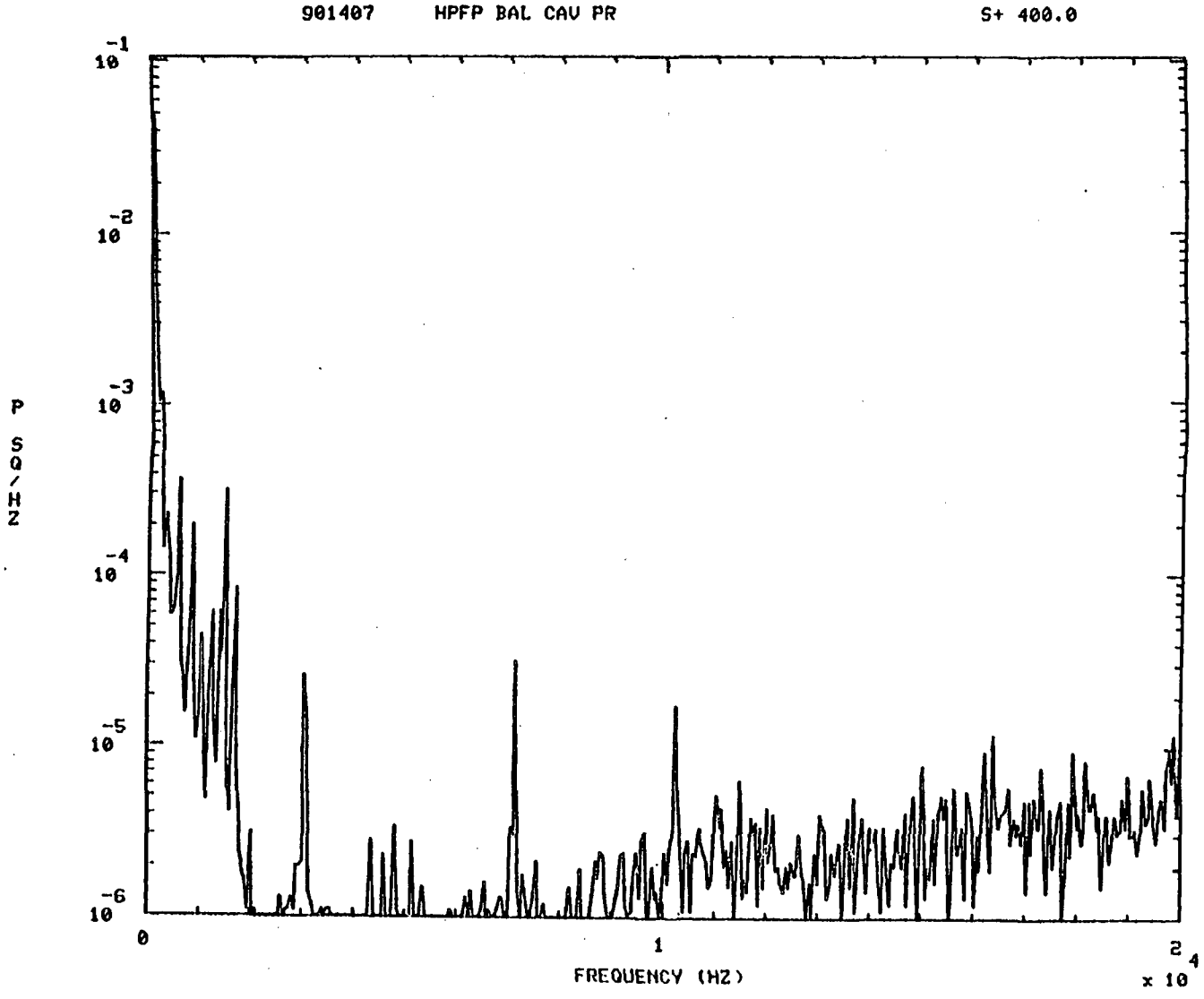
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
FREQUENCY (HZ)
x 10^4

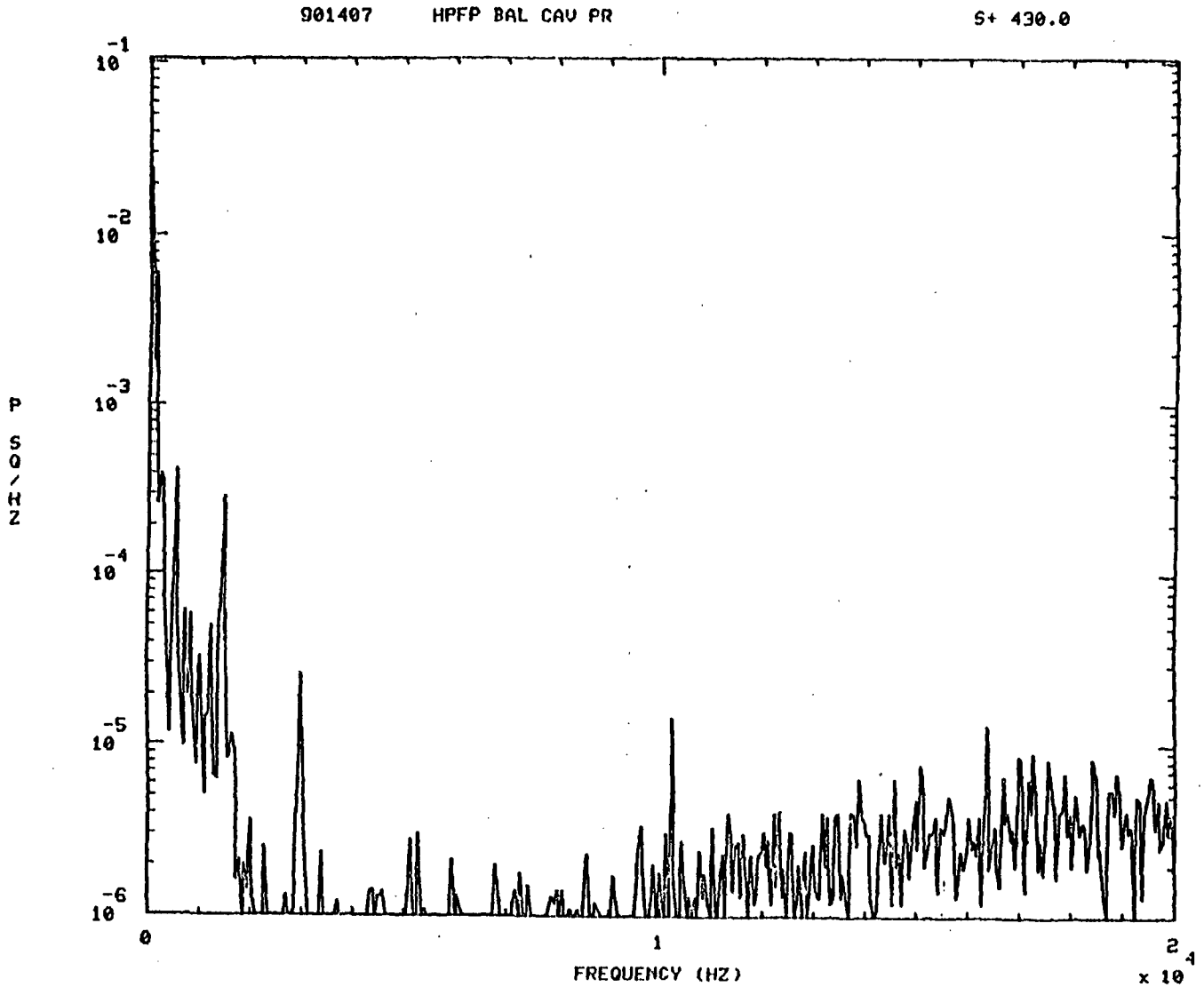

901407 HPFP BAL CAV PR
S+ 20.0
P S Q / H Z
10^-1
10^-2
10^-3
10^-4
10^-5
10^-6
0
1
2
FREQUENCY (HZ)
x 10^4

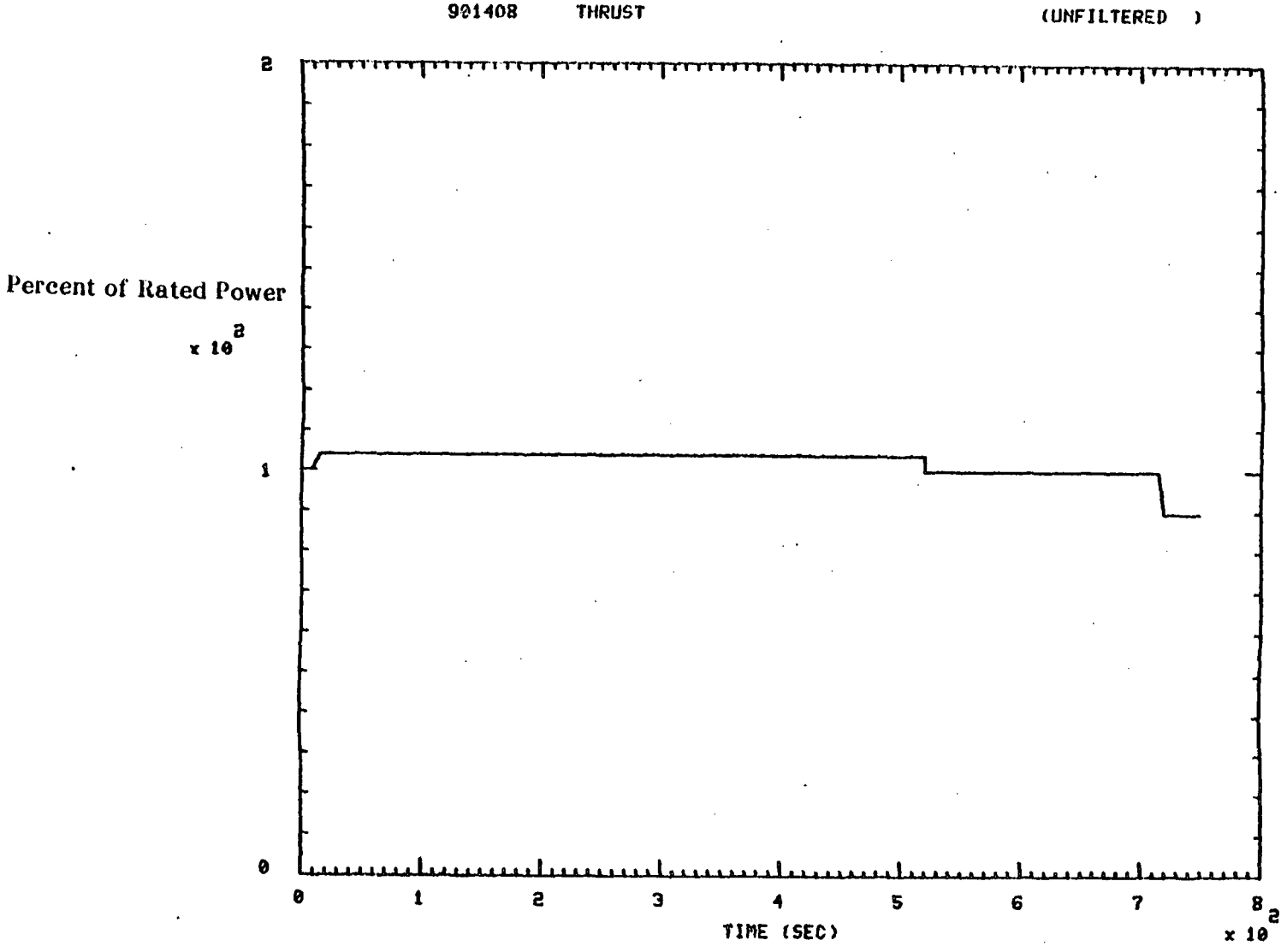

901407 HPFP BAL CAV PR
S+ 45.0
P
S
Q
/
H
Z
10^-1
10^-2
10^-3
10^-4
10^-5
10^-6
0
1
2
4
x 10
FREQUENCY (HZ)

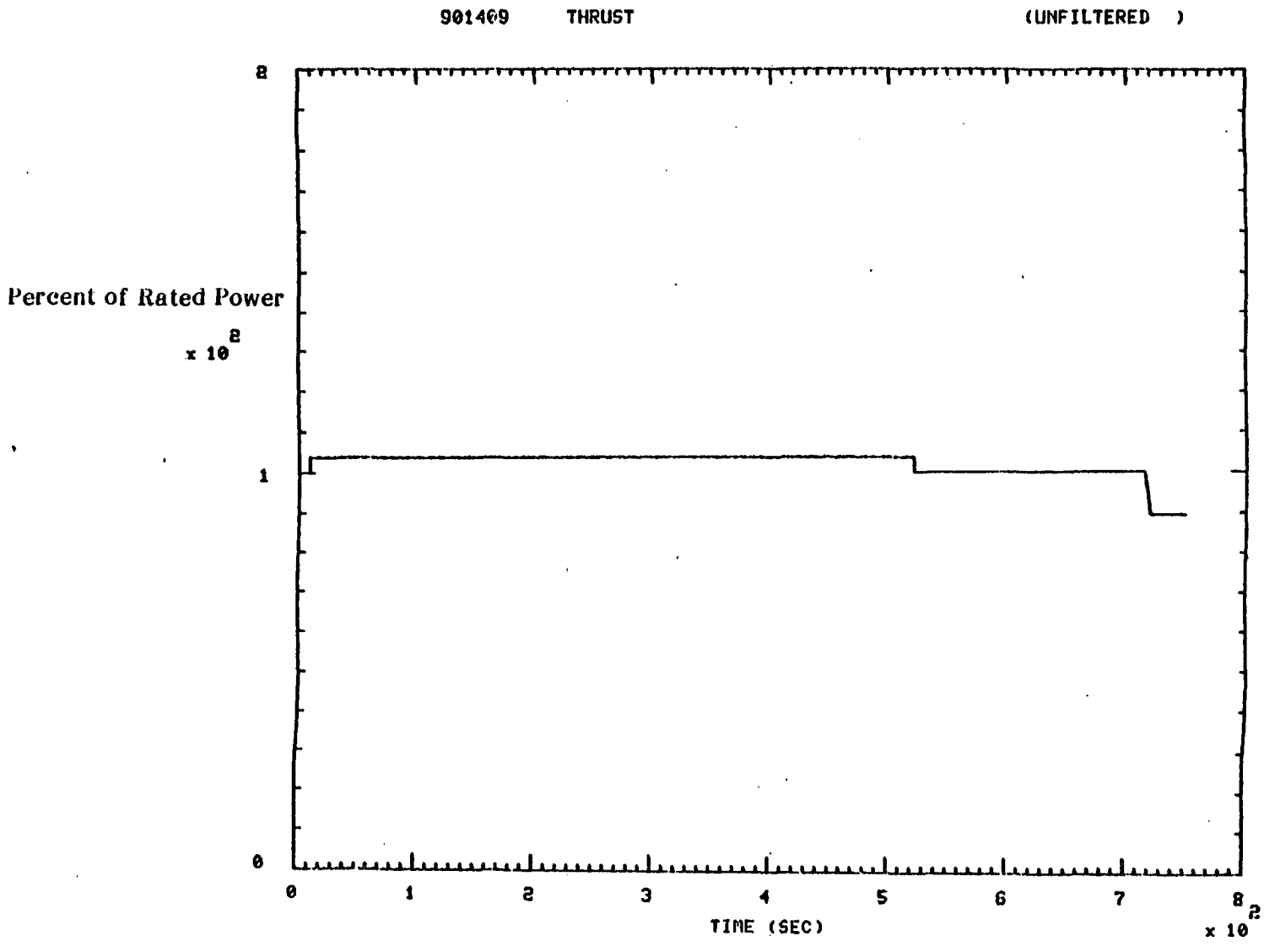

901407 HPFP BAL CAV PR
S+ 75.0
P SQ\HZ
10^-1
10^-2
10^-3
10^-4
10^-5
10^-6
0
1
2
FREQUENCY (HZ)
x 10^4

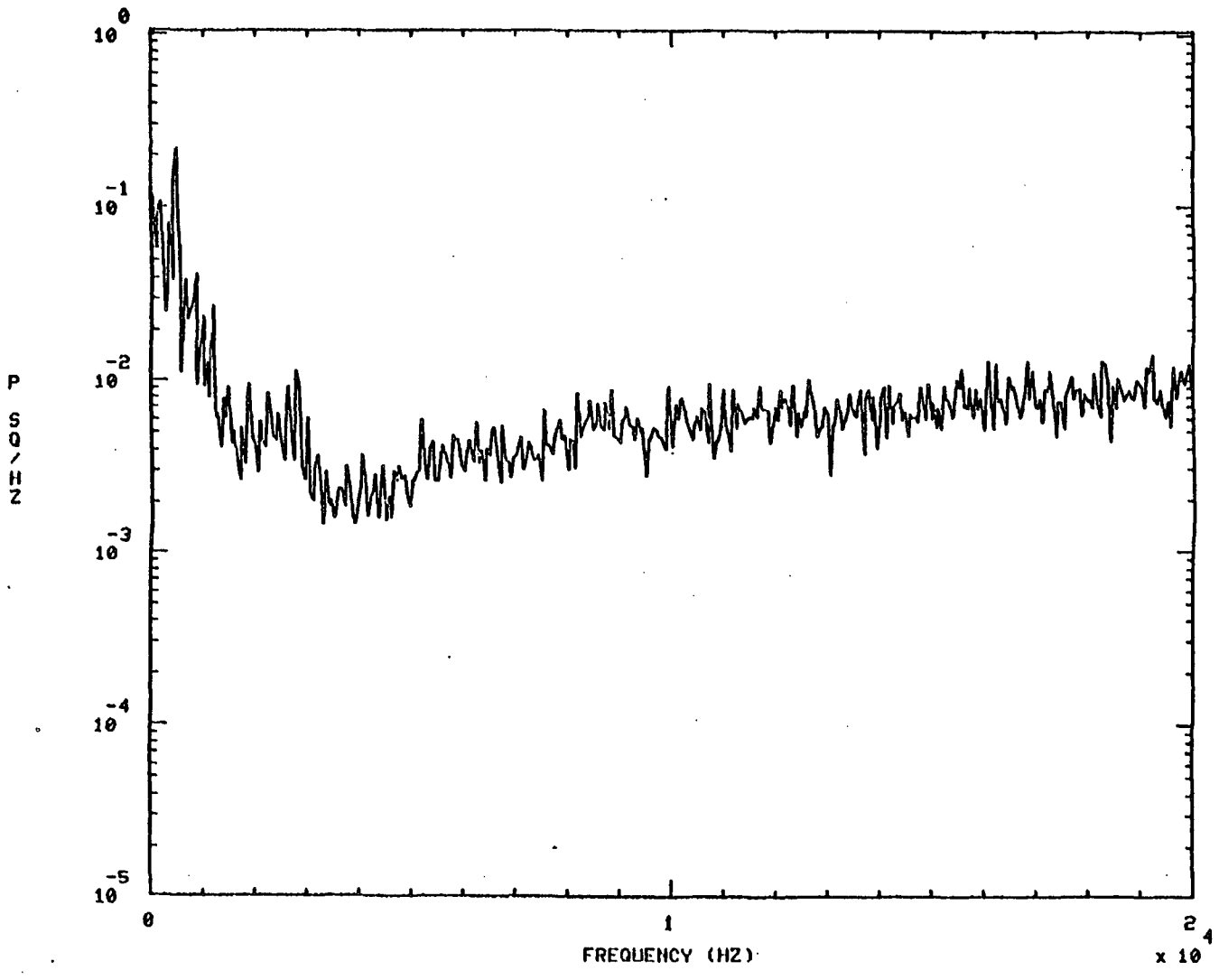

901407 HPFP BAL CAV PR
S+ 200.0
P SQ/HZ
10^-1
10^-2
10^-3
10^-4
10^-5
10^-6
0
1
2
FREQUENCY (HZ)
x 10^4

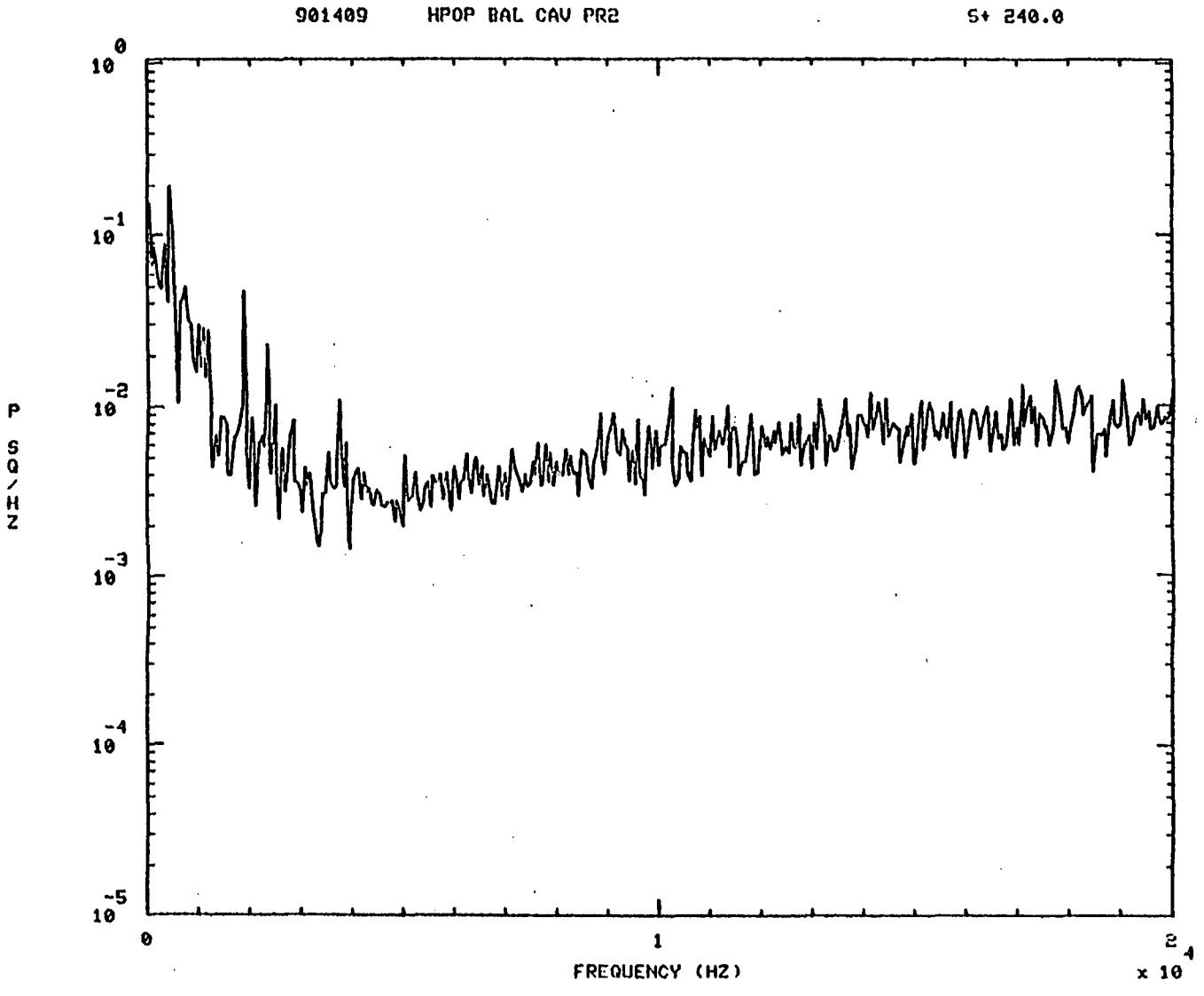

901407 HPFP BAL CAV PR
S+ 400.0
P
S
Q
/
H
Z
10^{-1}
10^{-2}
10^{-3}
10^{-4}
10^{-5}
10^{-6}
0
1
2
FREQUENCY (HZ)
x 10^{4}

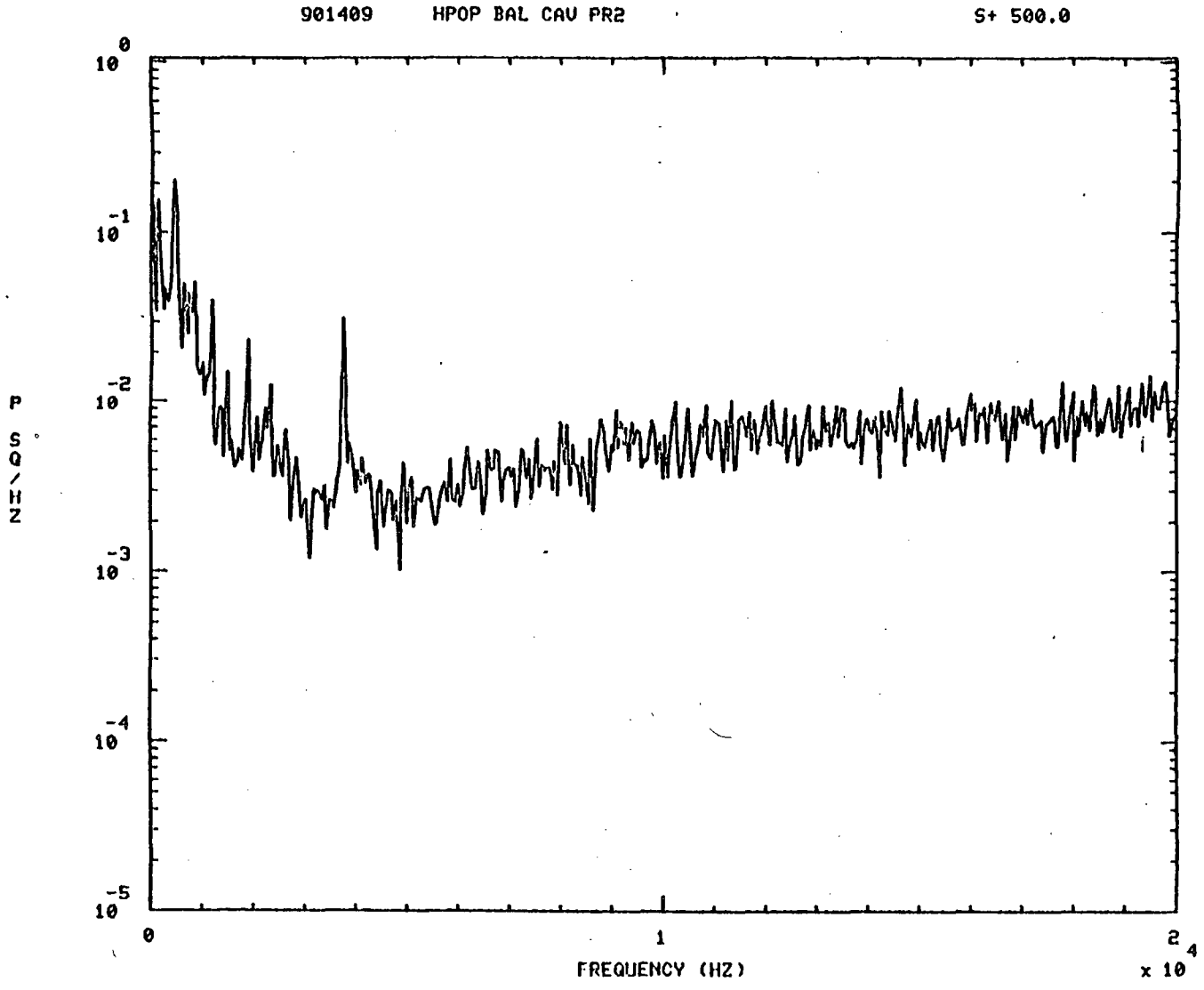

901407 HPFP BAL CAV PR
S+ 430.0
P S Q / H Z
10^-1
10^-2
10^-3
10^-4
10^-5
10^-6
0
1
2
FREQUENCY (HZ)
x 10^4

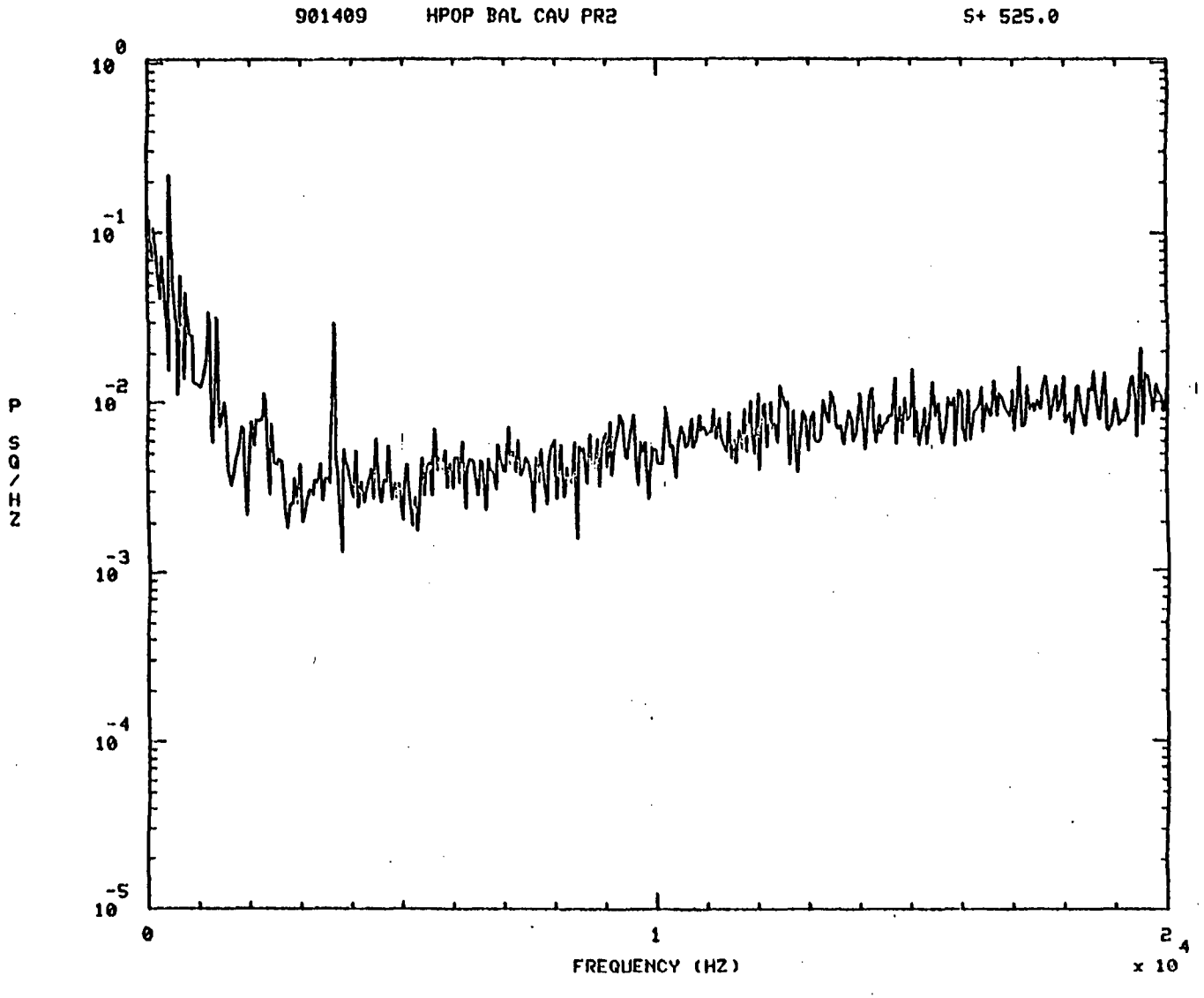

901408 THRUST (UNFILTERED)
Percent of Rated Power
x 10^2
2
1
0
0 1 2 3 4 5 6 7 8
TIME (SEC)
x 10^2

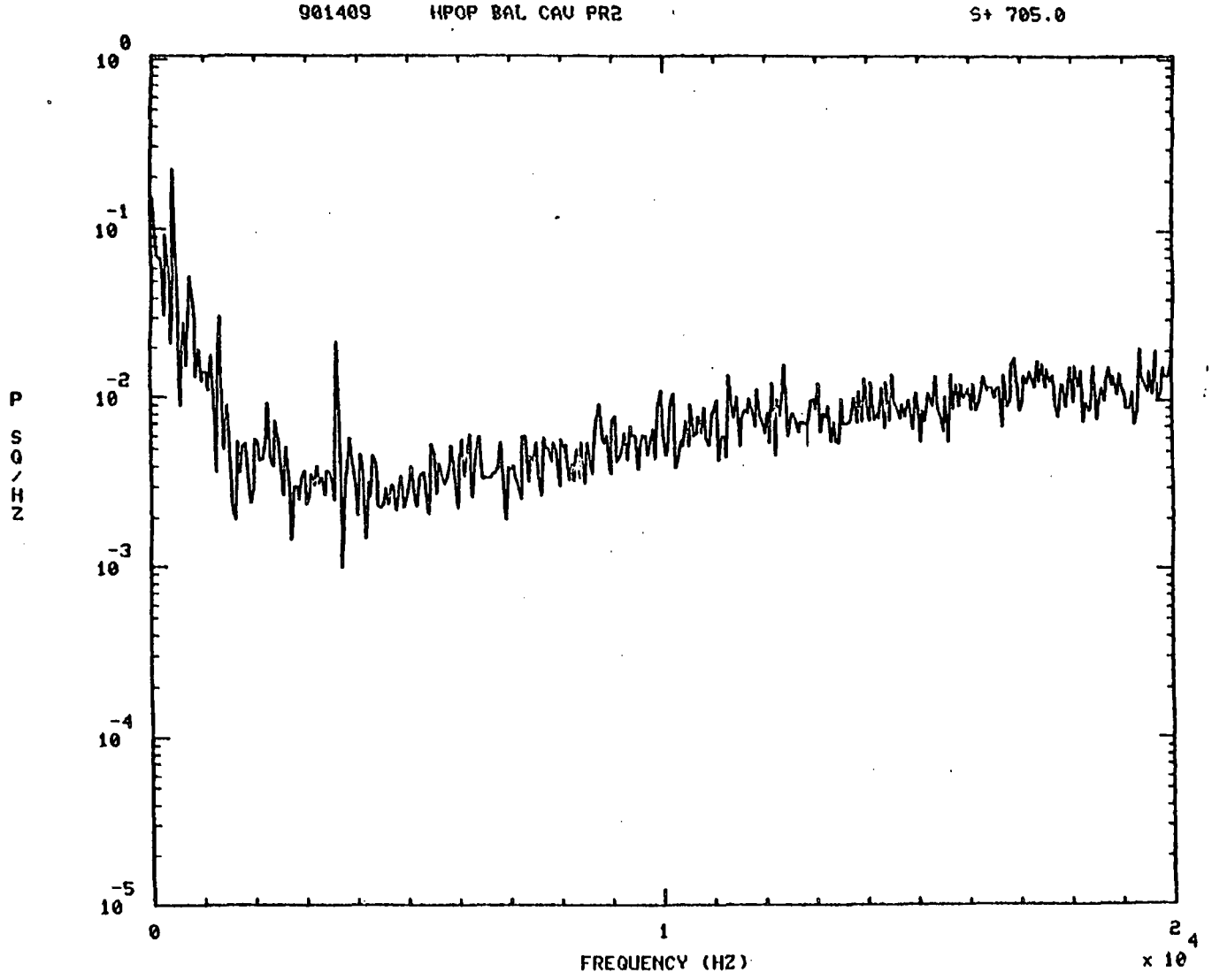

901409 THRUST (UNFILTERED)
Percent of Rated Power
x 10^2
2
1
0
0 1 2 3 4 5 6 7 8
TIME (SEC)
x 10^2

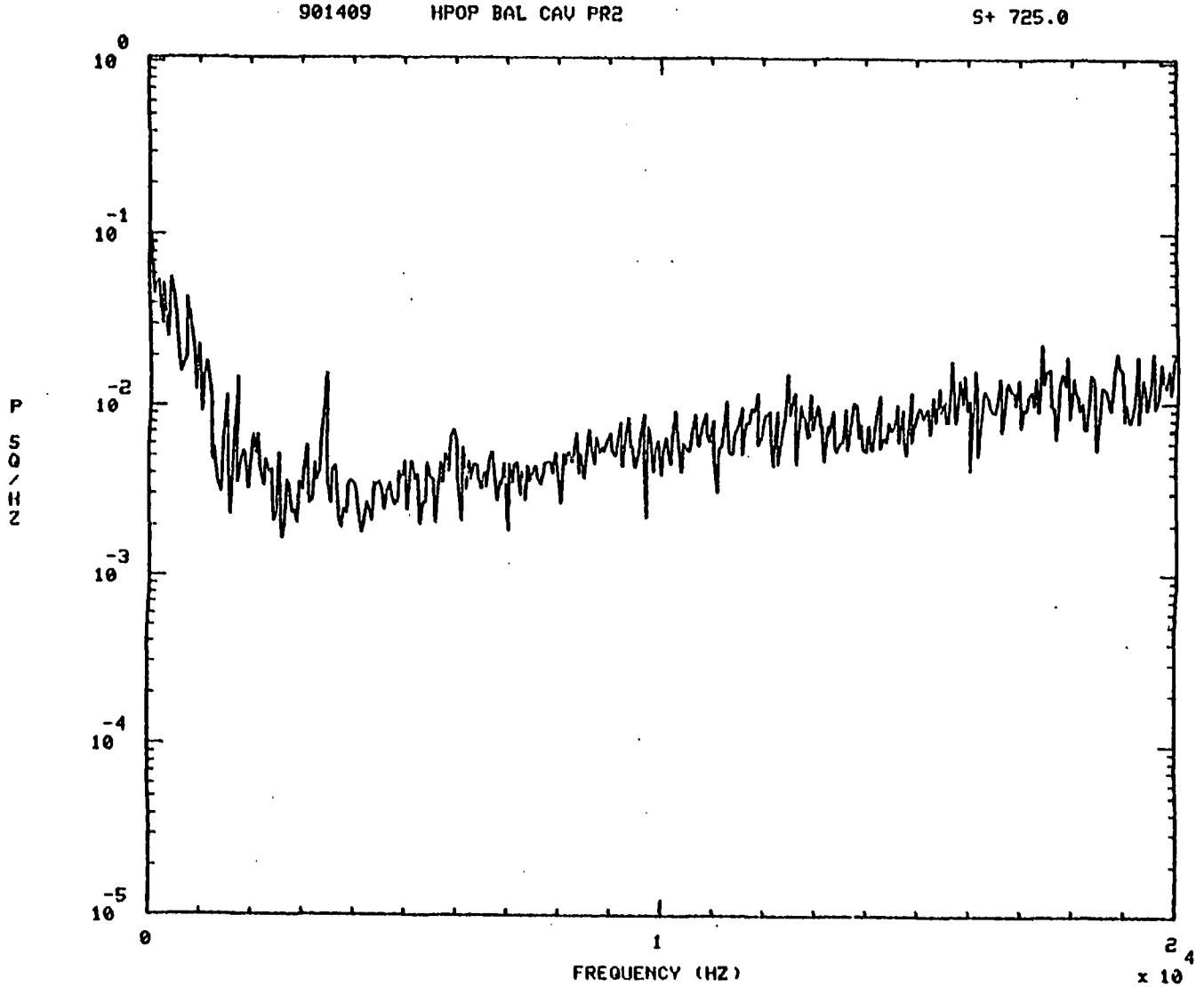

901409 HPOP BAL CAV PR2
S+ 15.0
P
S
Q
/
H
Z
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
4
FREQUENCY (HZ)
x 10

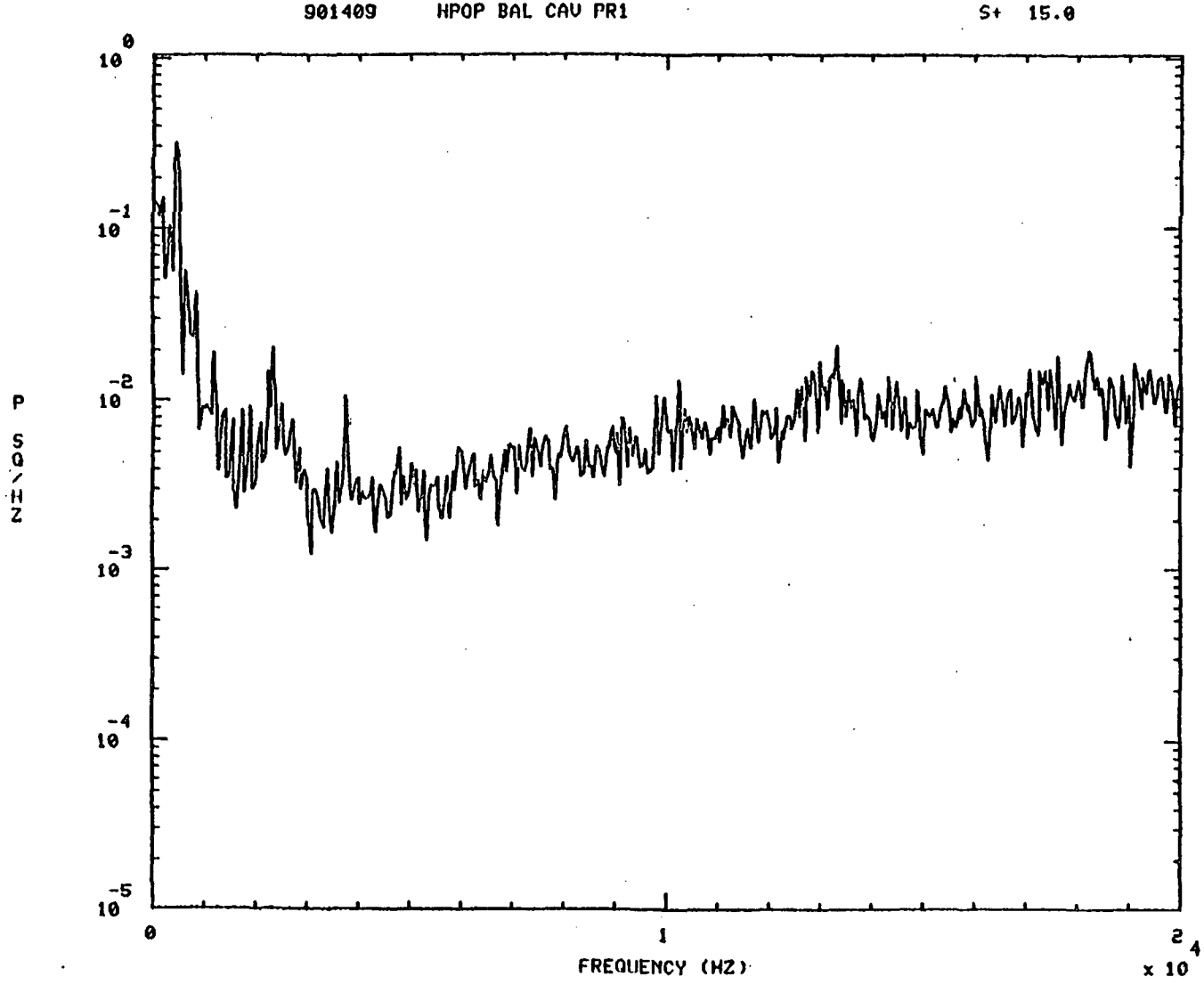

901409 HPOP BAL CAV PR2
S+ 240.0
P S Q / H Z
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
FREQUENCY (HZ)
x 10^4

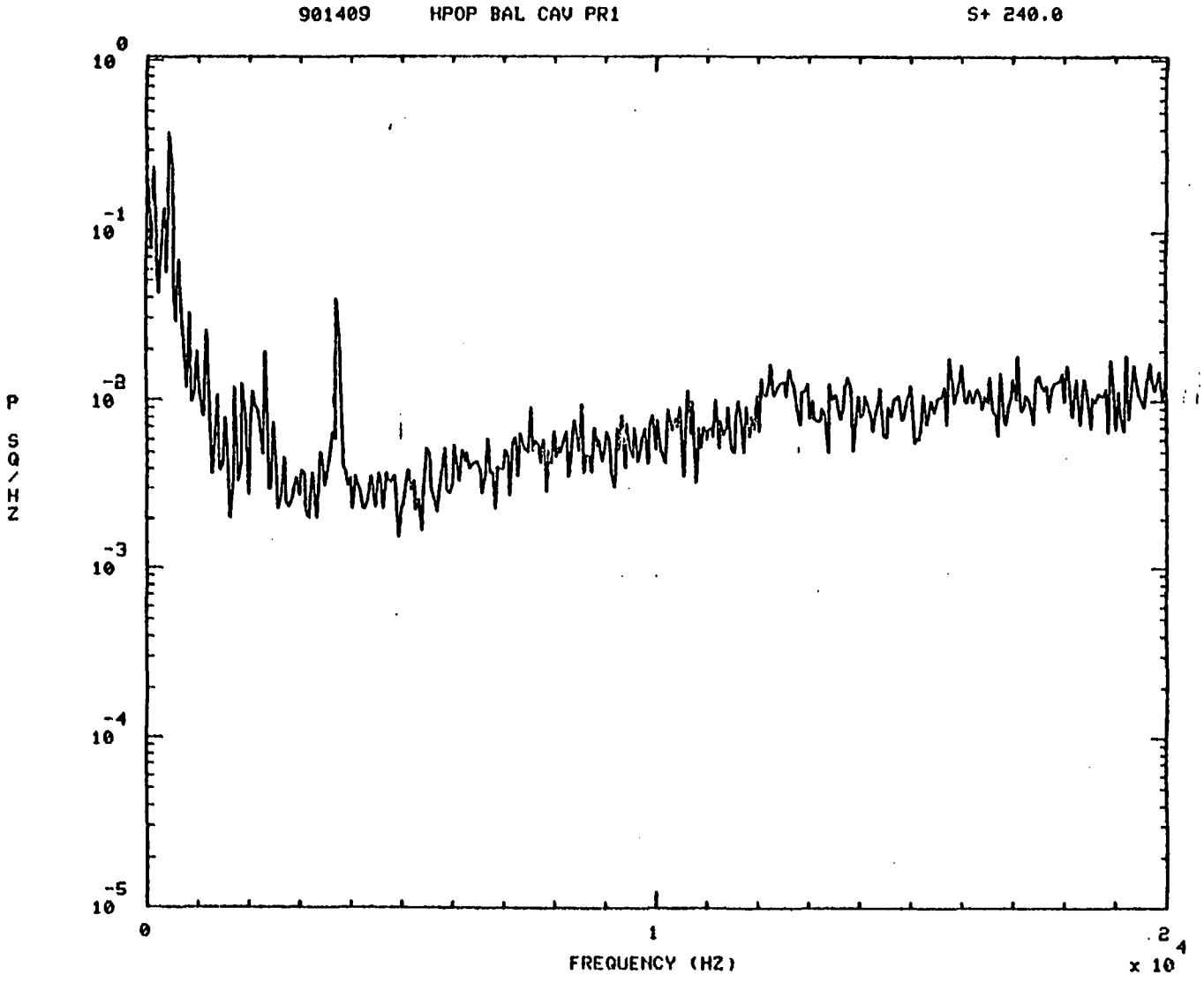

901409 HPOP BAL CAV PR2
S+ 500.0
P SQ\HZ
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
4
x 10
FREQUENCY (HZ)

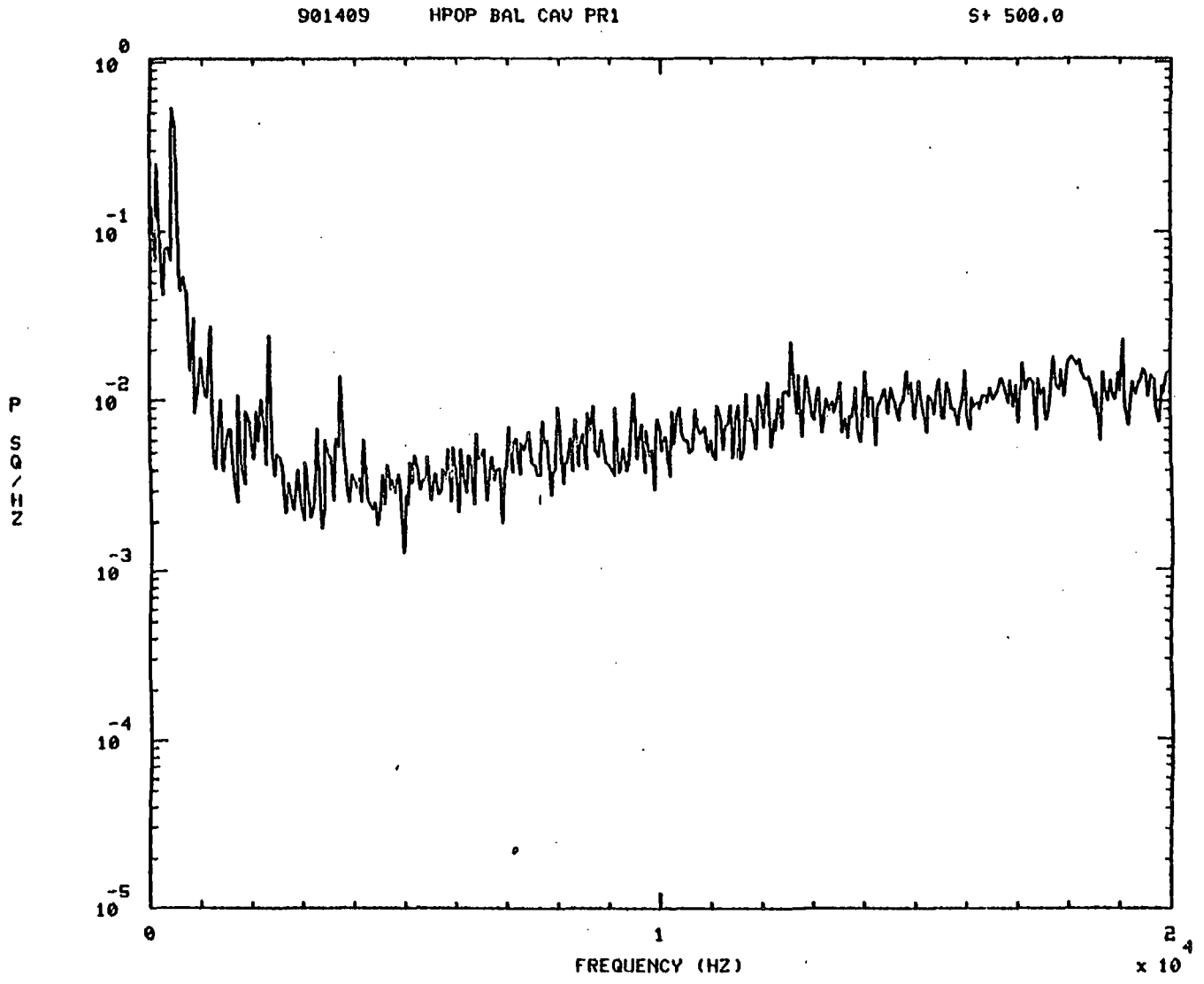

901409 HPOP BAL CAV PR2
S+ 525.0
P S Q / H Z
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
FREQUENCY (HZ)
x 10^4

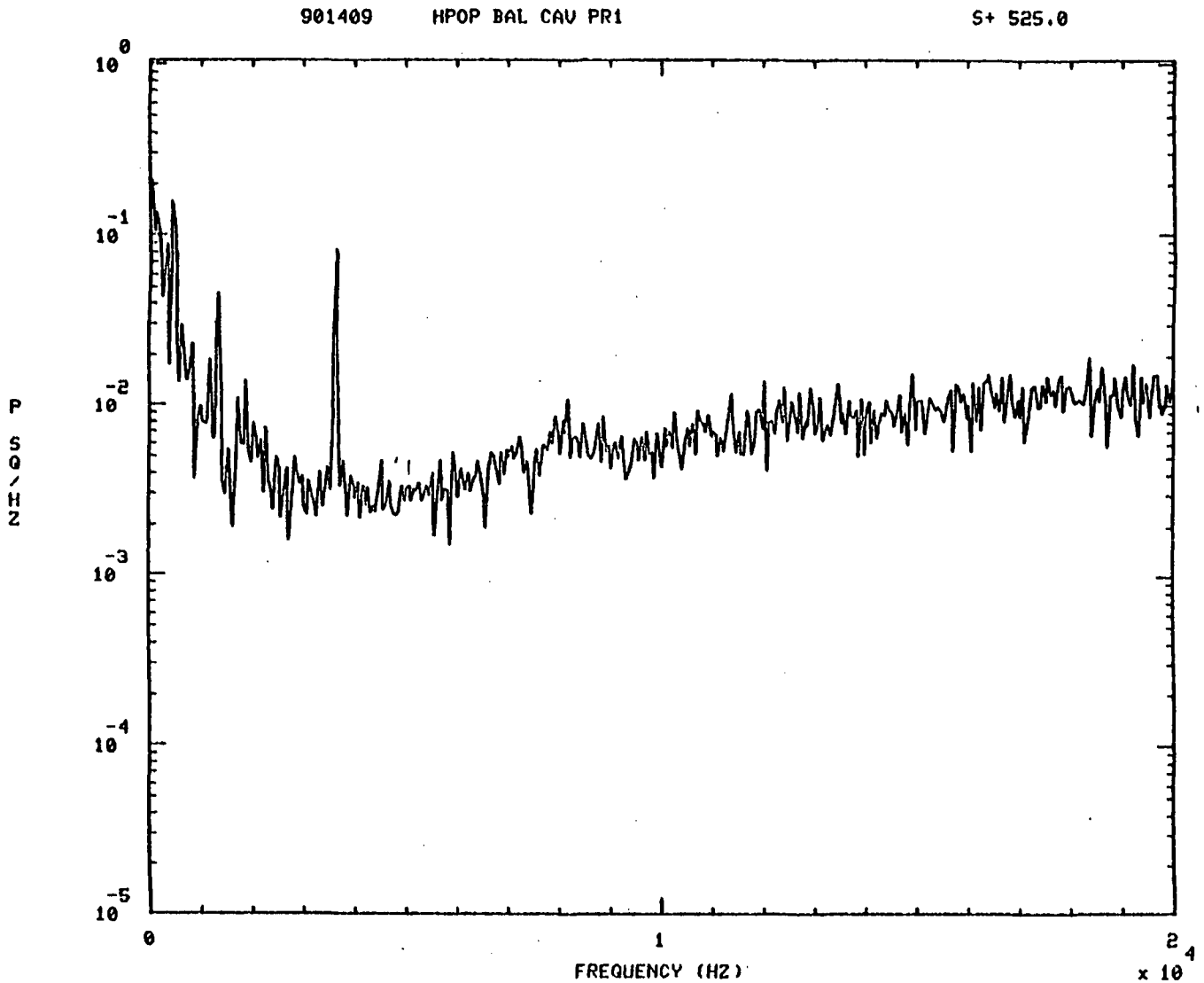

901409 HPOP BAL CAV PR2
S+ 705.0
P S0/HZ
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
FREQUENCY (HZ)
x 10^4

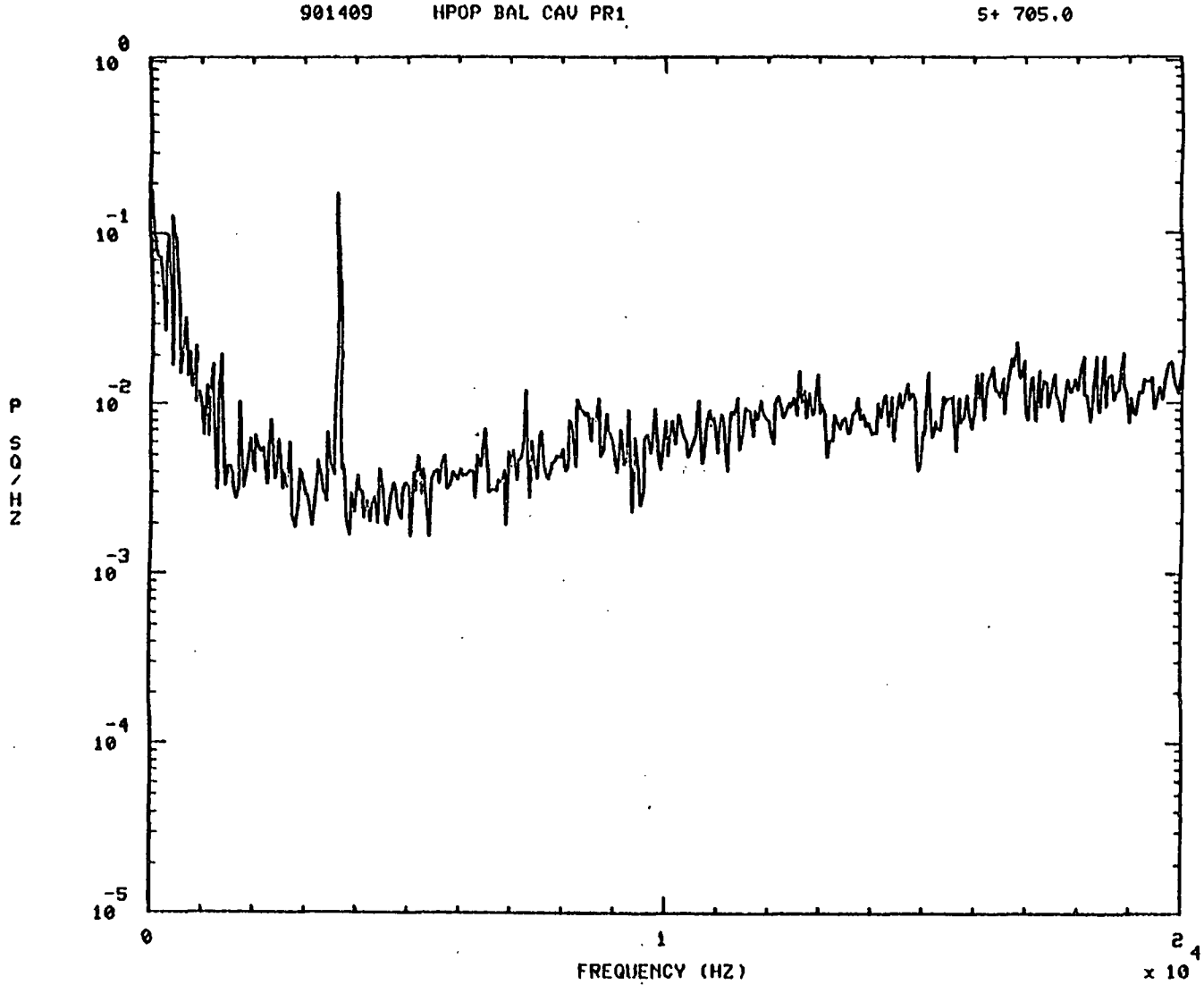

901409 HPOP BAL CAV PR2
S+ 725.0
P
S
D
/
H
Z
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
FREQUENCY (HZ)
x 10^4

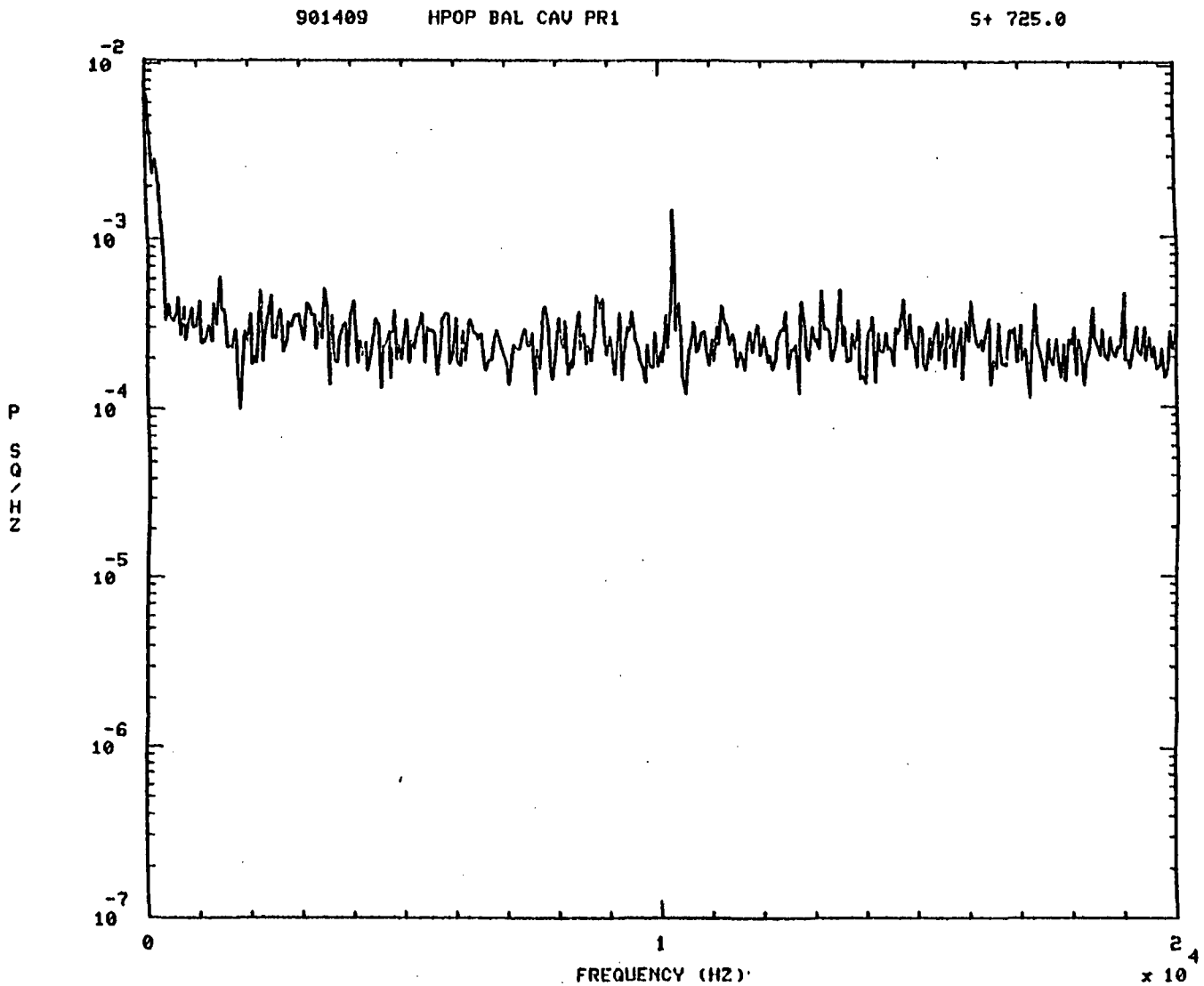

901409 HPOP BAL CAV PR1
S+ 15.0
P
S
Q
/
H
Z
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
FREQUENCY (HZ)
x 10^4

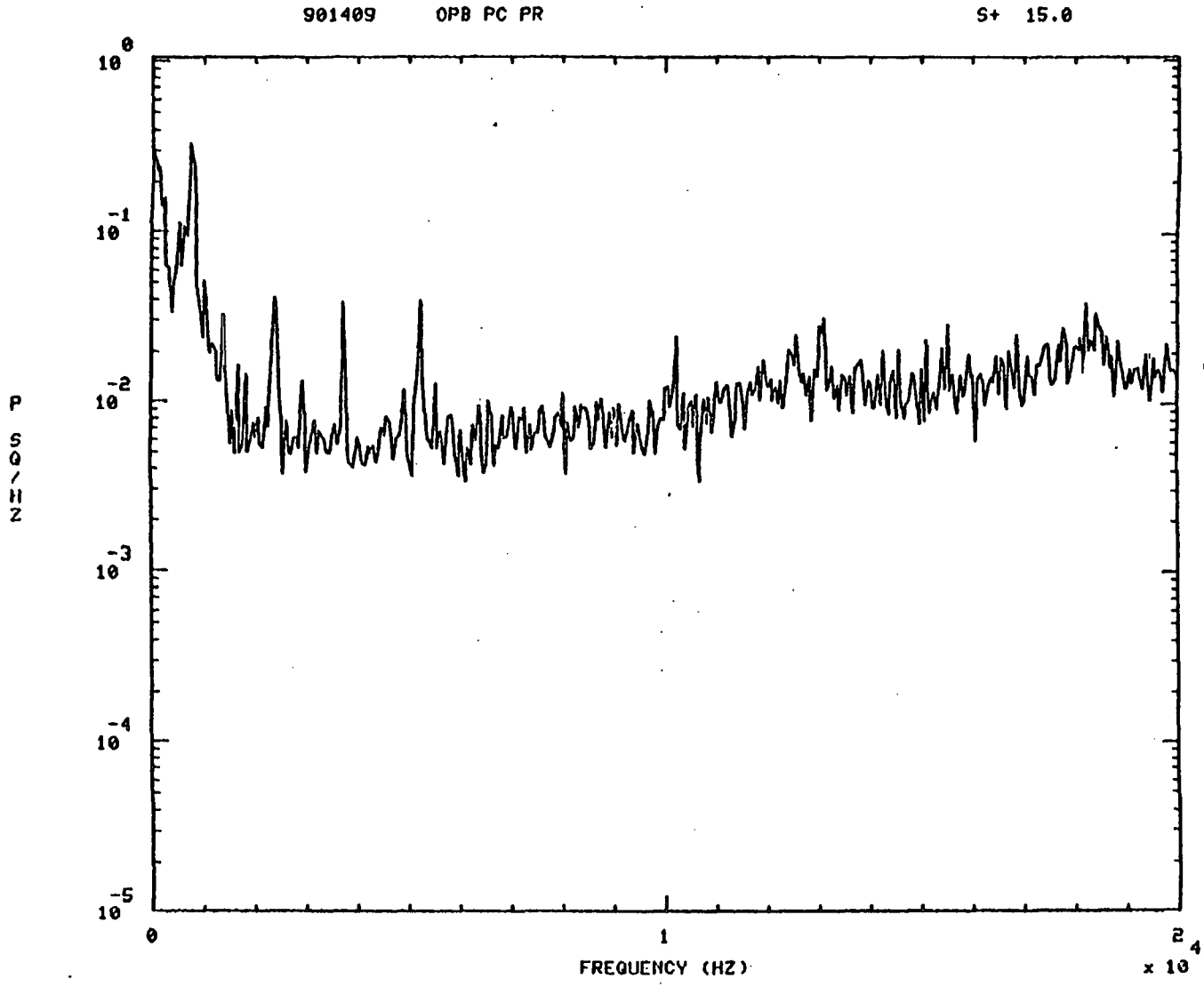

901409 HPOP BAL CAV PR1
S+ 240.0
P S Q \ H Z
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
FREQUENCY (HZ)
x 10^4

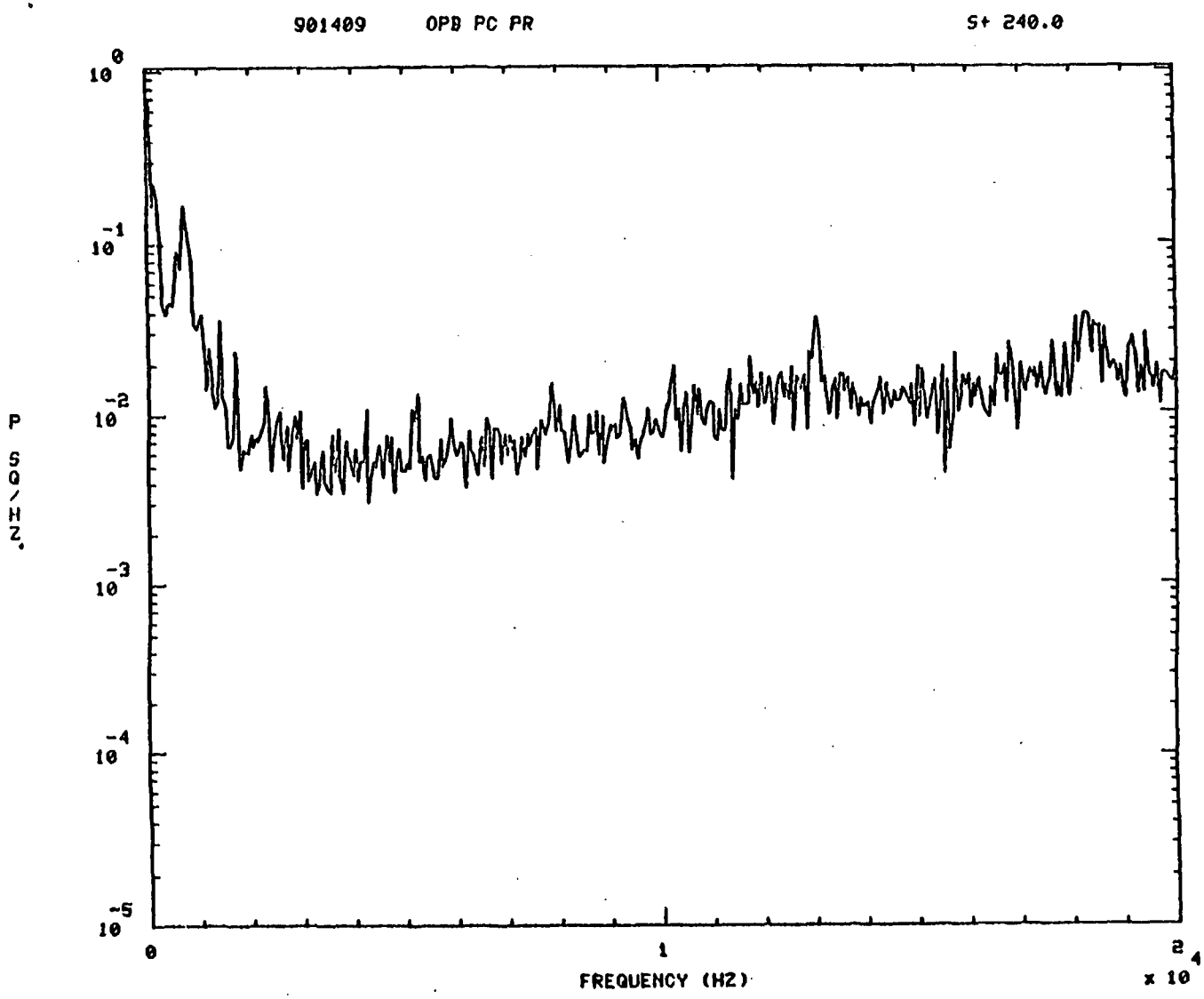

901409 HPOP BAL CAV PR1
S+ 500.0
P
S
Q
/
H
Z
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
FREQUENCY (HZ)
x 10^4

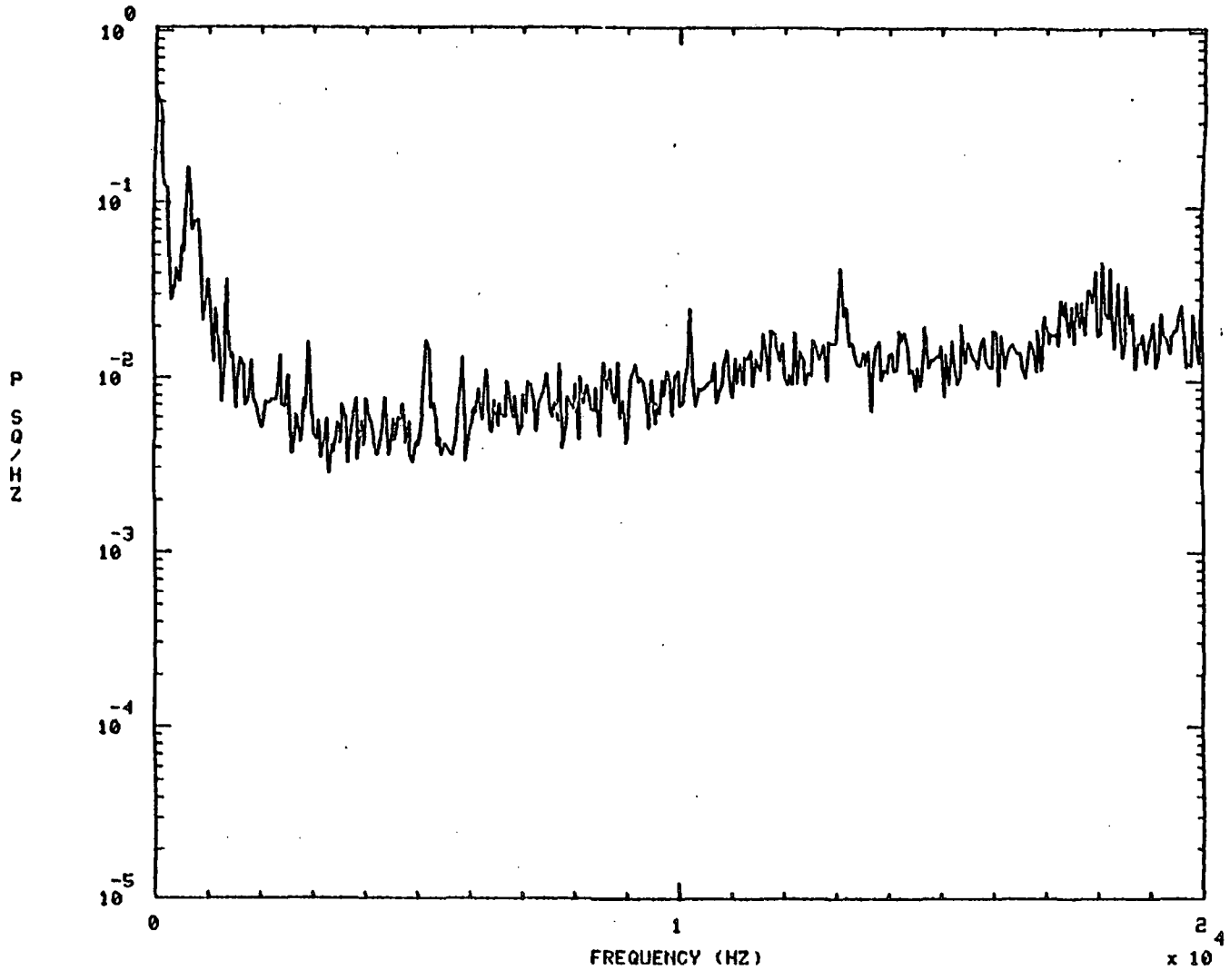

901409 HPOP BAL CAV PR1
S+ 525.0
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
P S Q / H Z
0
1
2
FREQUENCY (HZ)
x 10^4

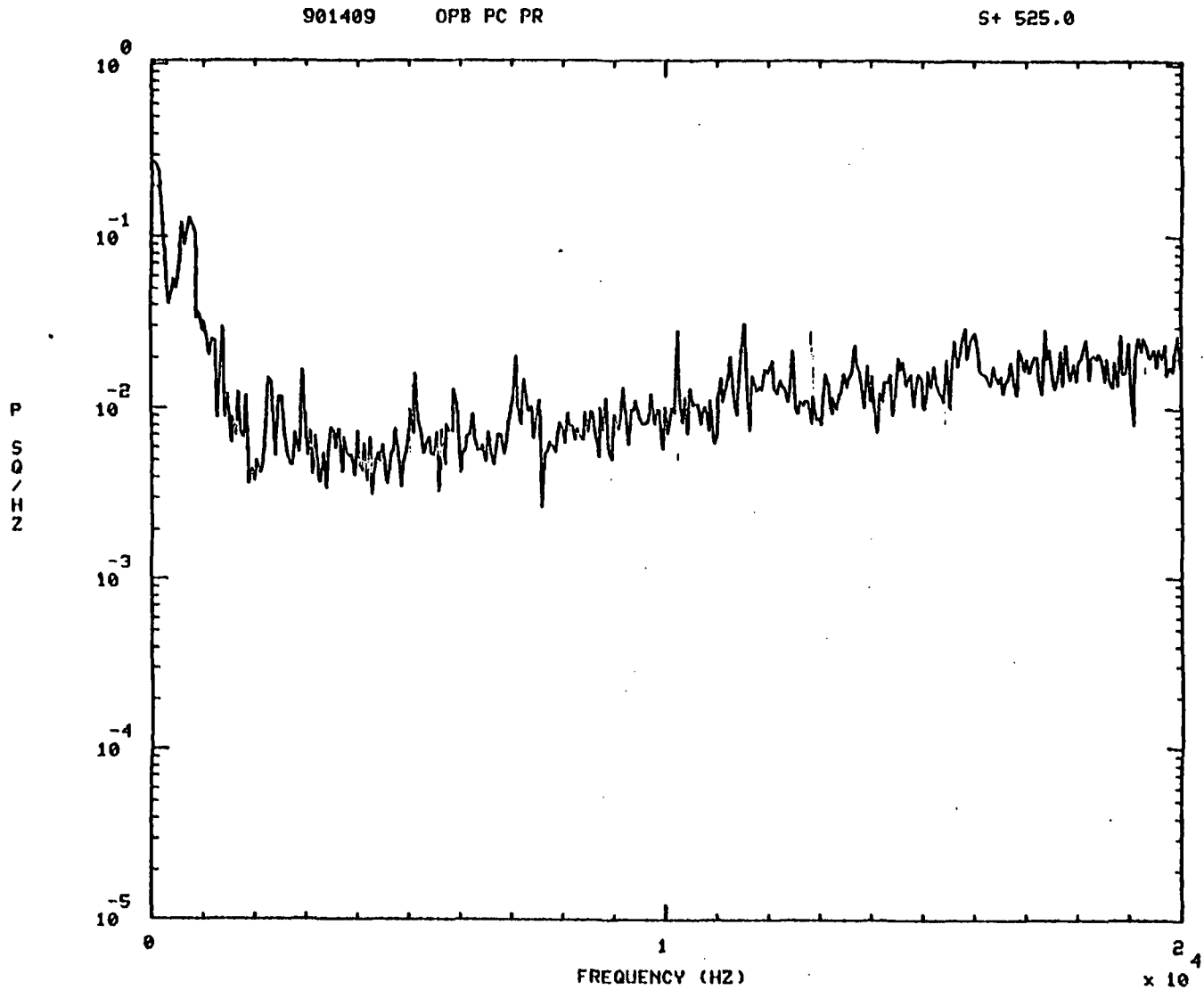

901409 HPOP BAL CAV PR1
S+ 705.0
P SQ/HZ
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
FREQUENCY (HZ)
x 10^4

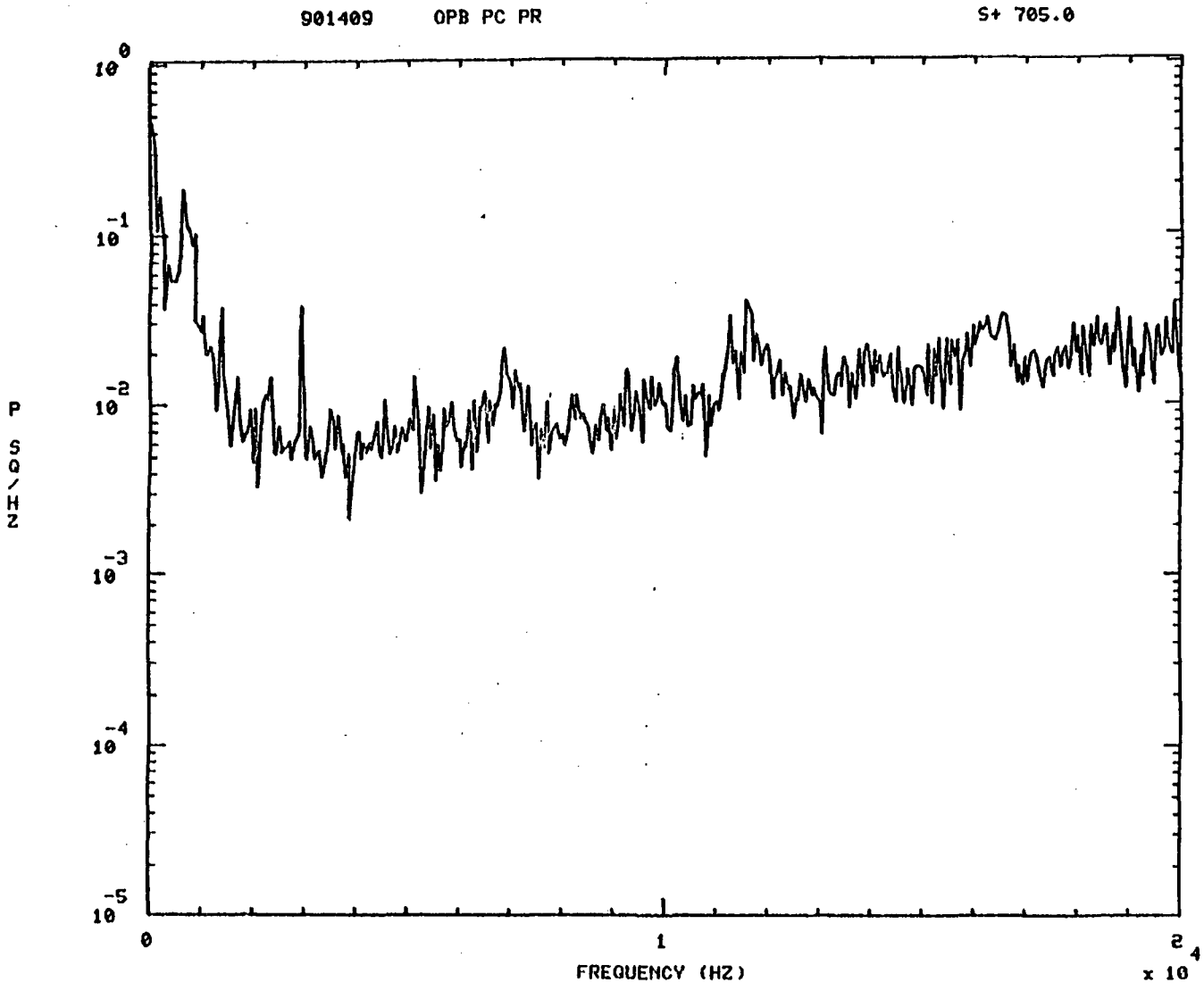

901409 HPOP BAL CAV PR1
S+ 725.0
10^-2
10^-3
10^-4
10^-5
10^-6
10^-7
P
S
Q
/
H
Z
0
1
2
4
x 10
FREQUENCY (HZ)


901409 OPB PC PR
S+ 15.0
P SQ/HZ
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
FREQUENCY (HZ)
x 10^4


901409 OPB PC PR
S+ 240.0
P SQ\HZ.
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
FREQUENCY (HZ)
x 10^4


901409 OPB PC PR
S+ 500.0
P S Q \ H Z
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
FREQUENCY (HZ)
x 10^4


901409 OPB PC PR
S+ 525.0
P SQ/HZ
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
FREQUENCY (HZ)
x 10^4


901409 OPB PC PR
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P SQ/HZ
10^0
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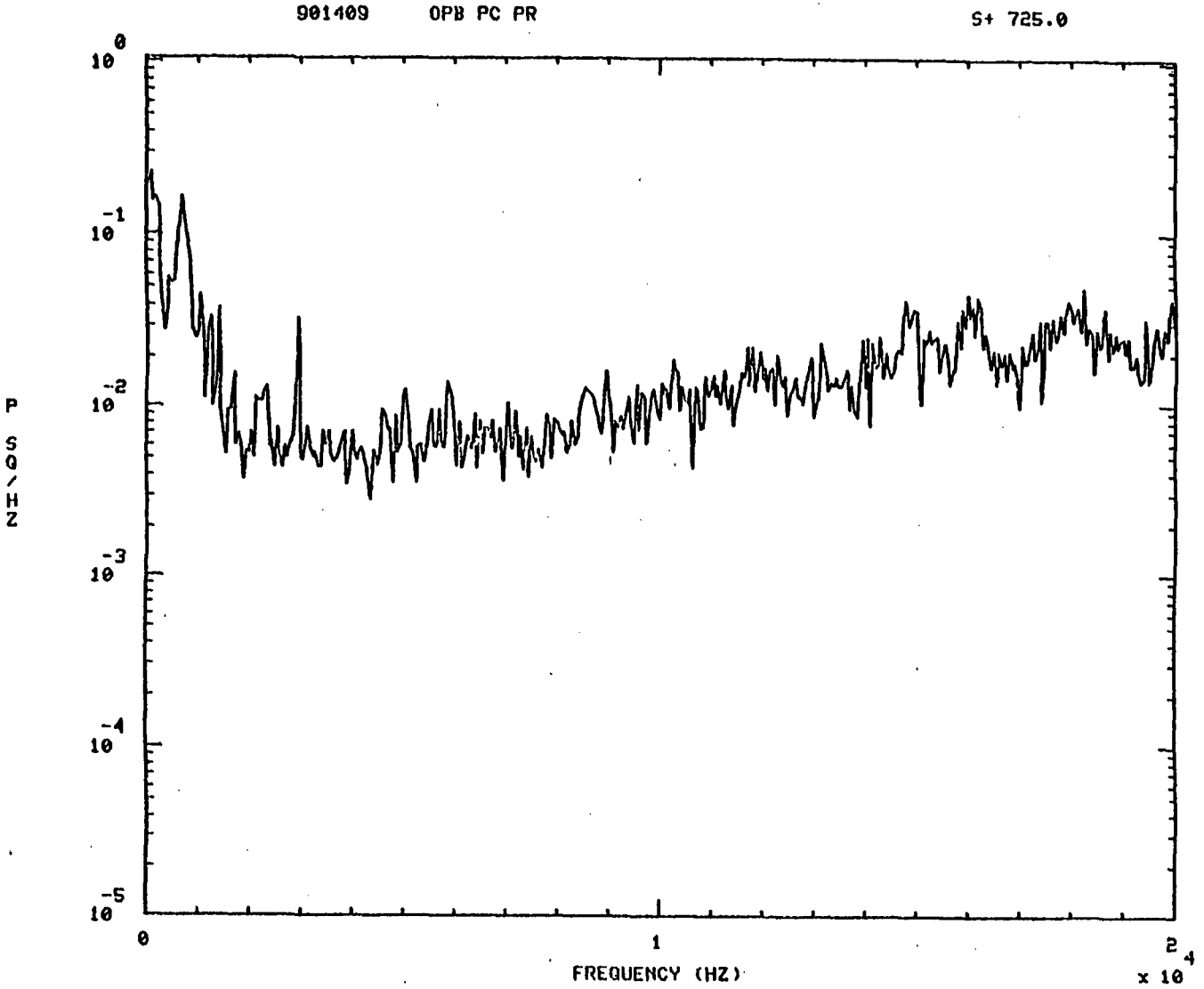
10^-2
10^-3
10^-4
10^-5
0
1
2
FREQUENCY (HZ)
x 10^4


901409 OPB PC PR
S+ 725.0
P SQ\HZ
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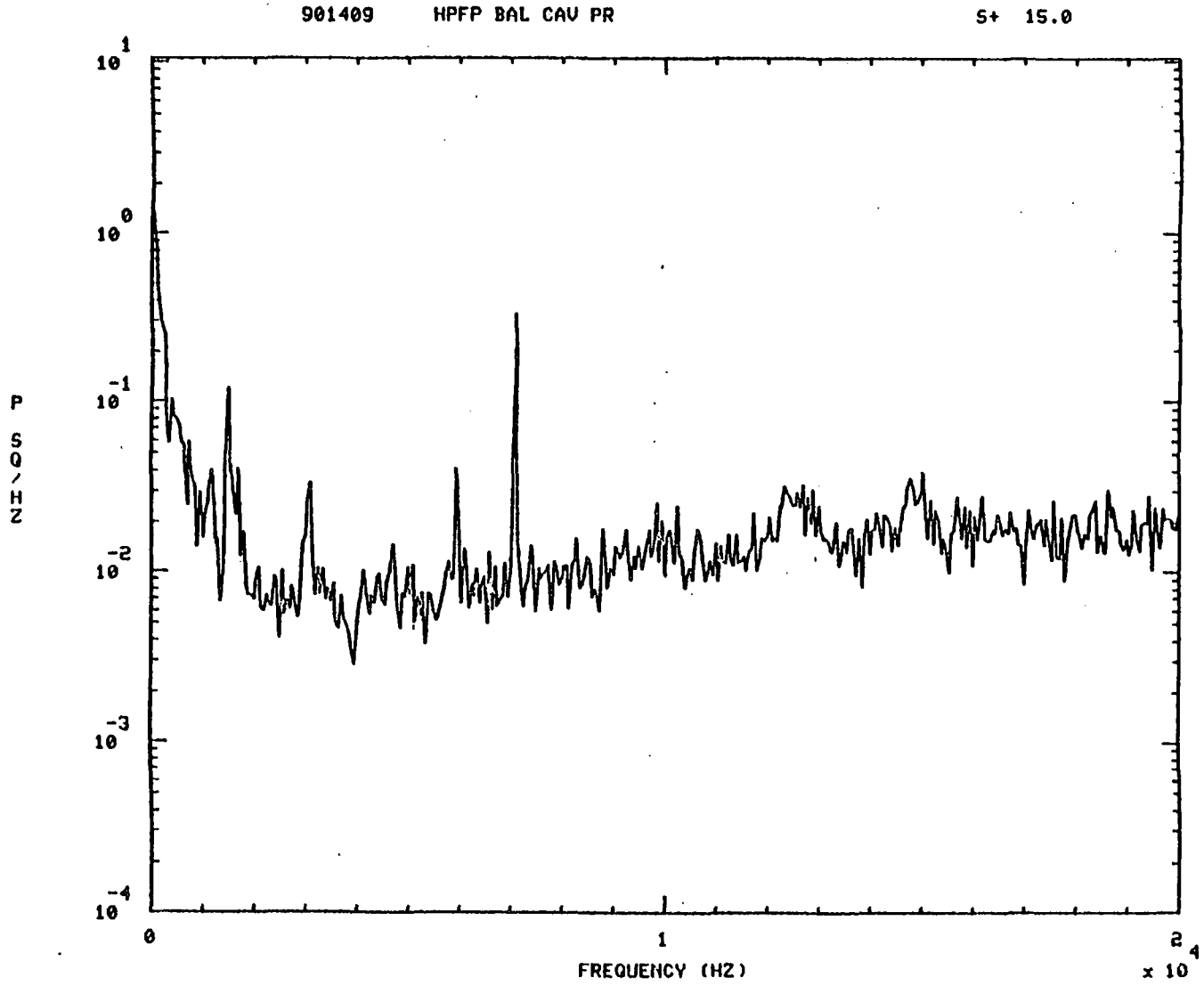
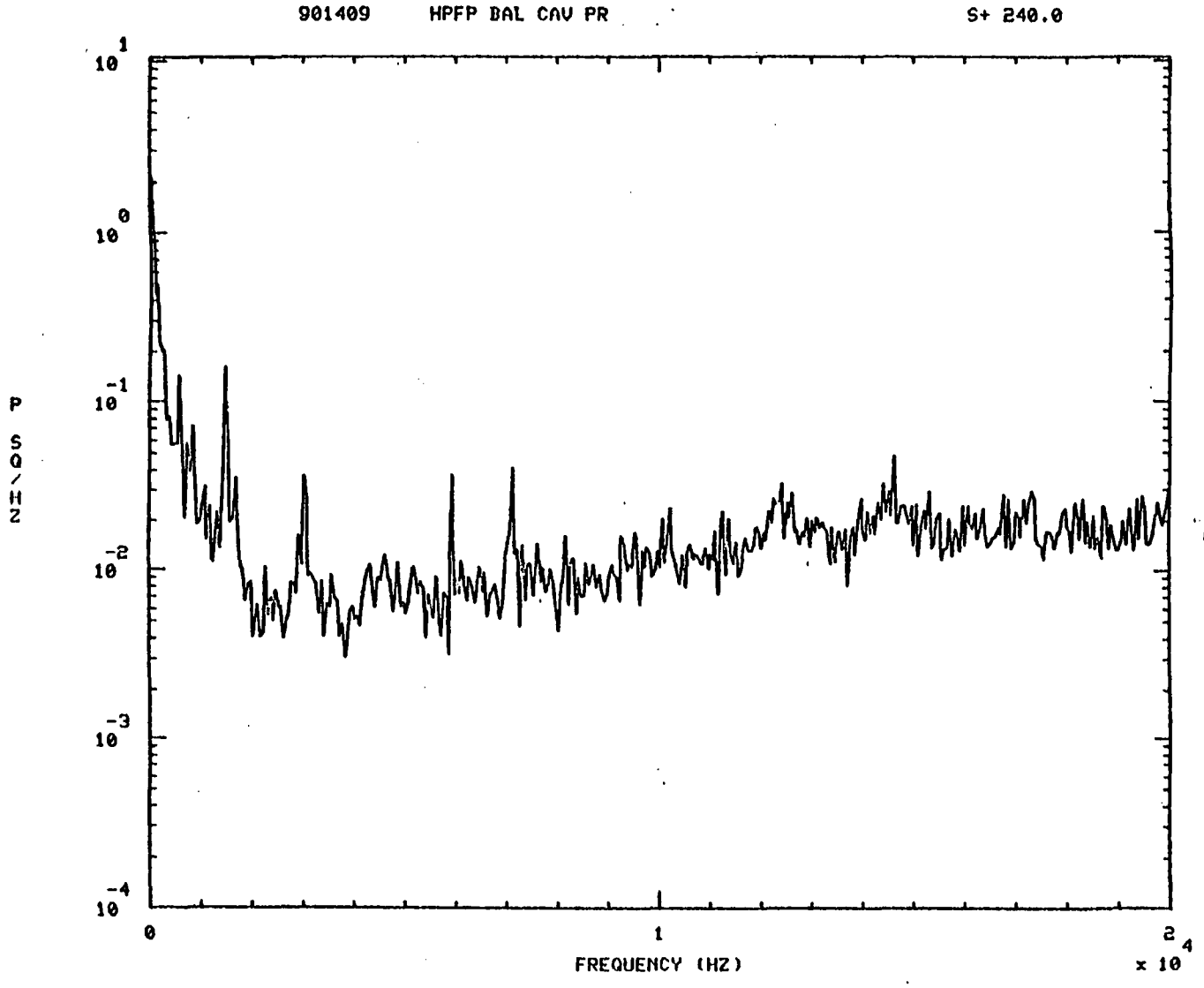
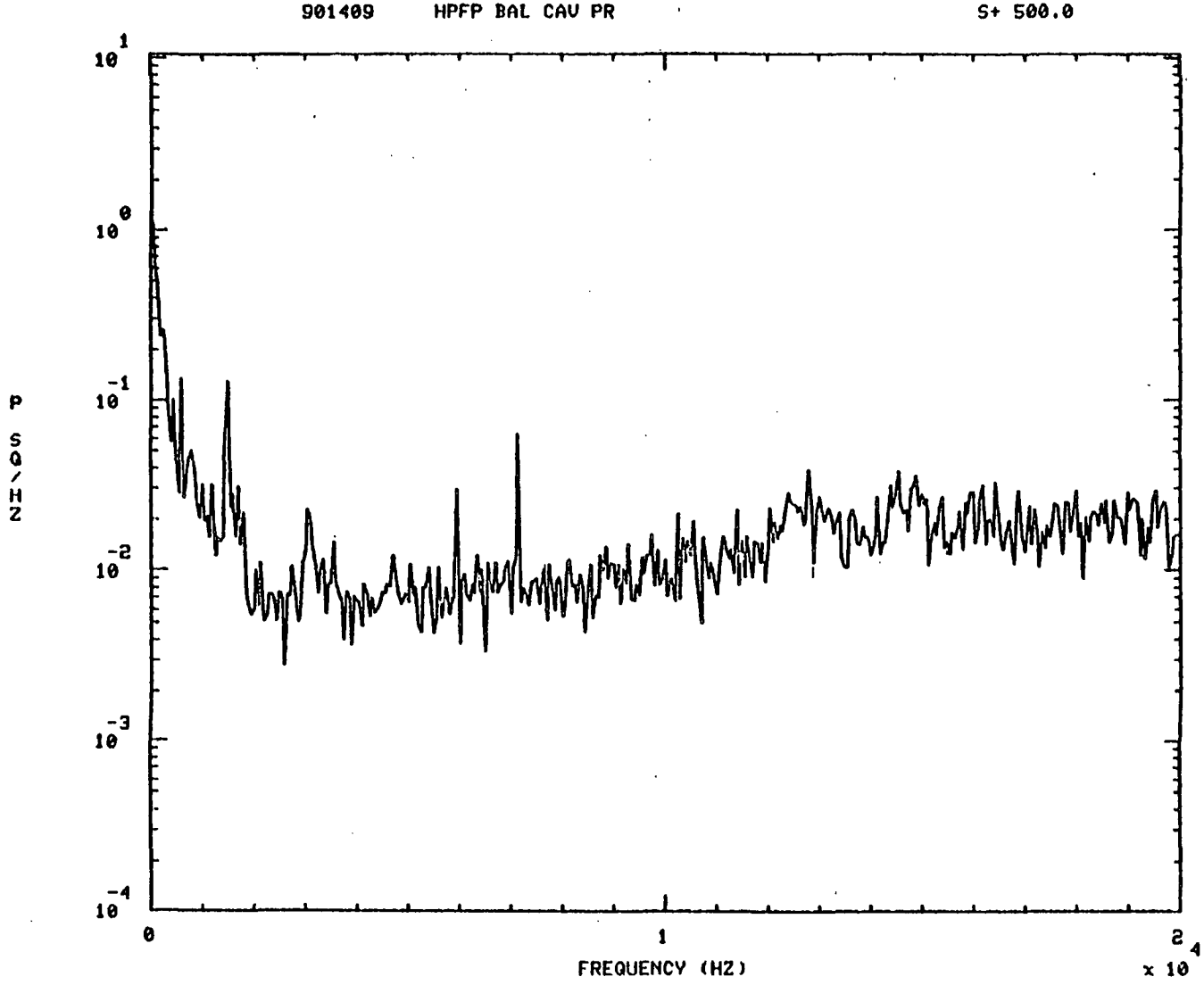
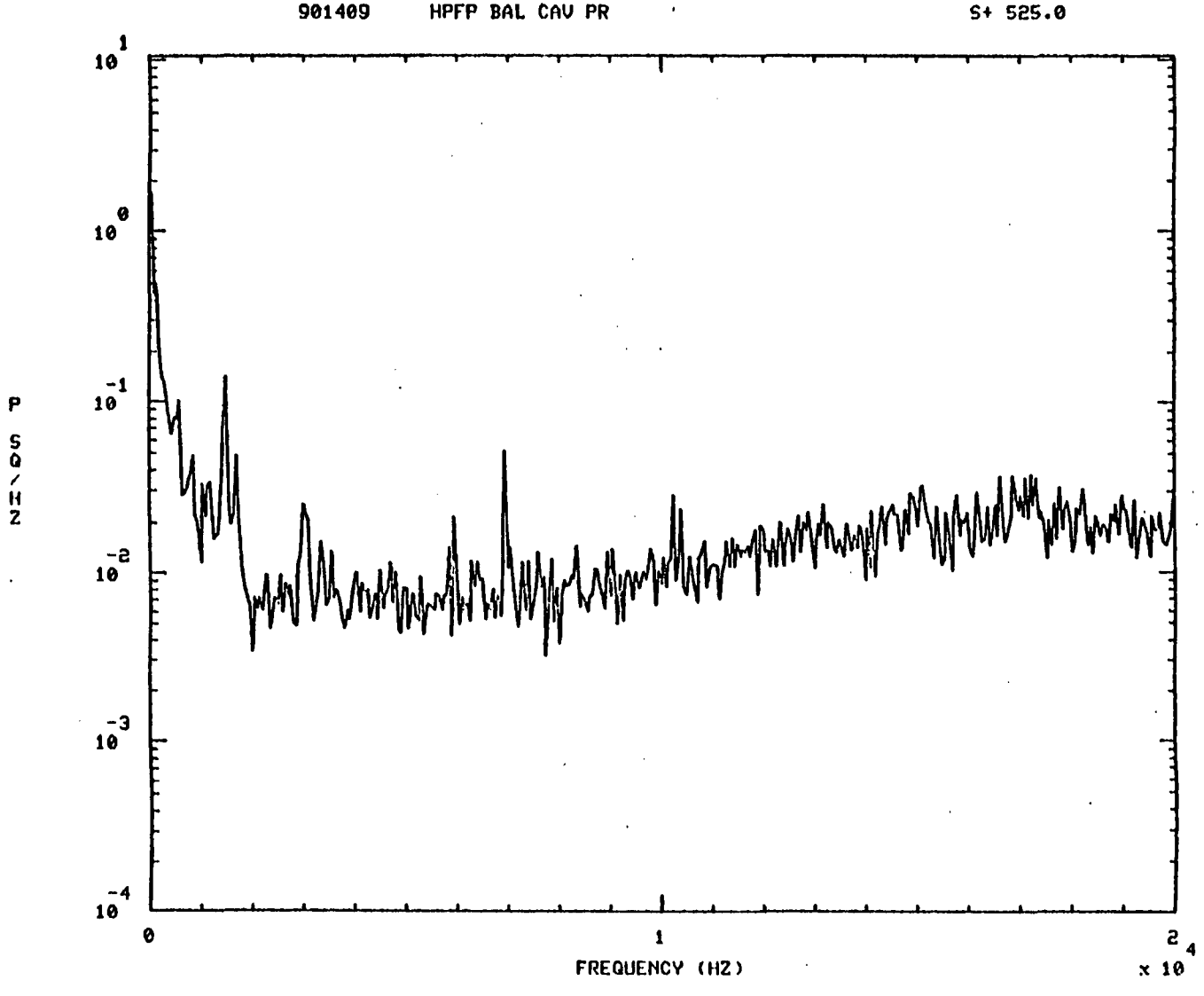
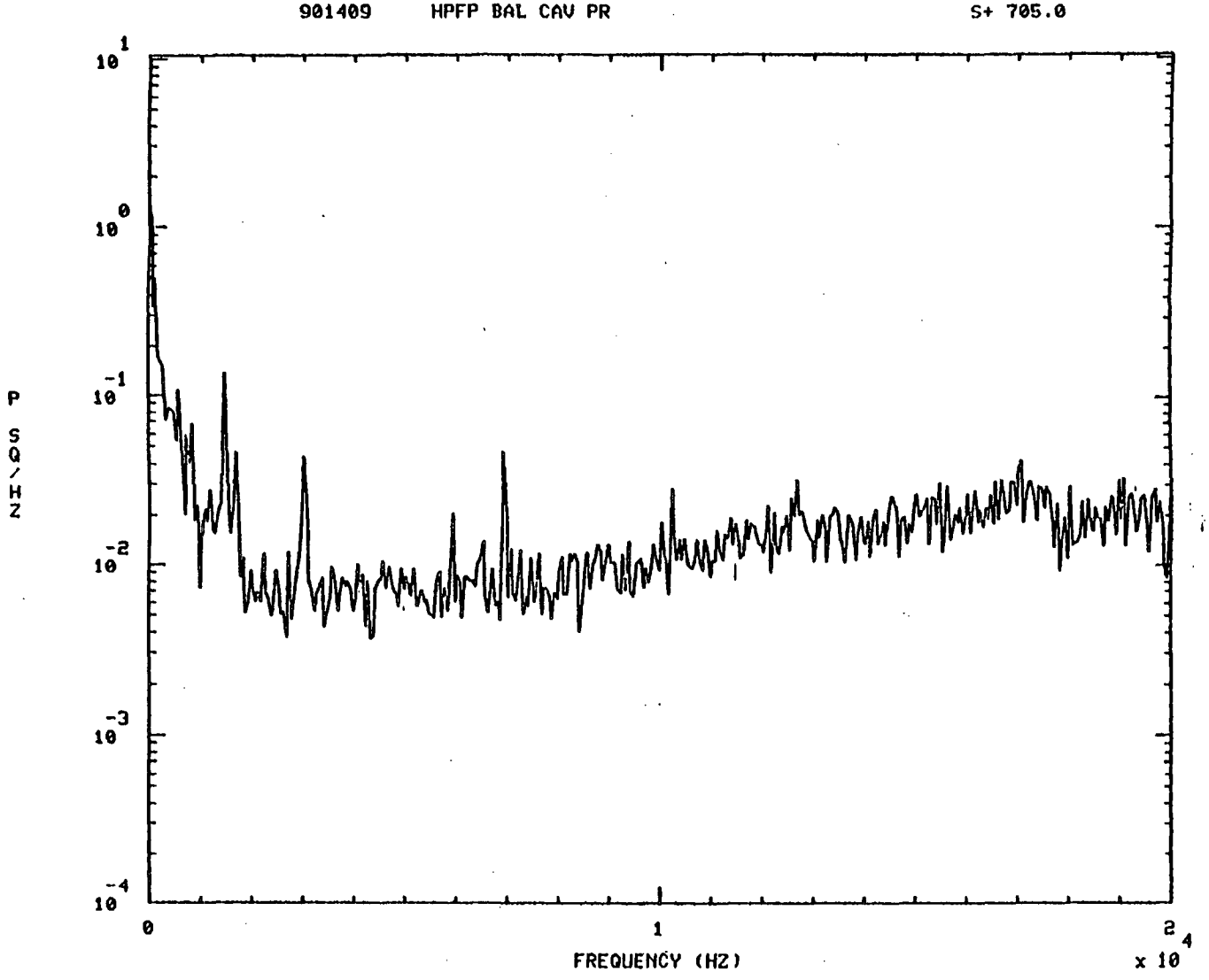
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
FREQUENCY (HZ)
x 10^4

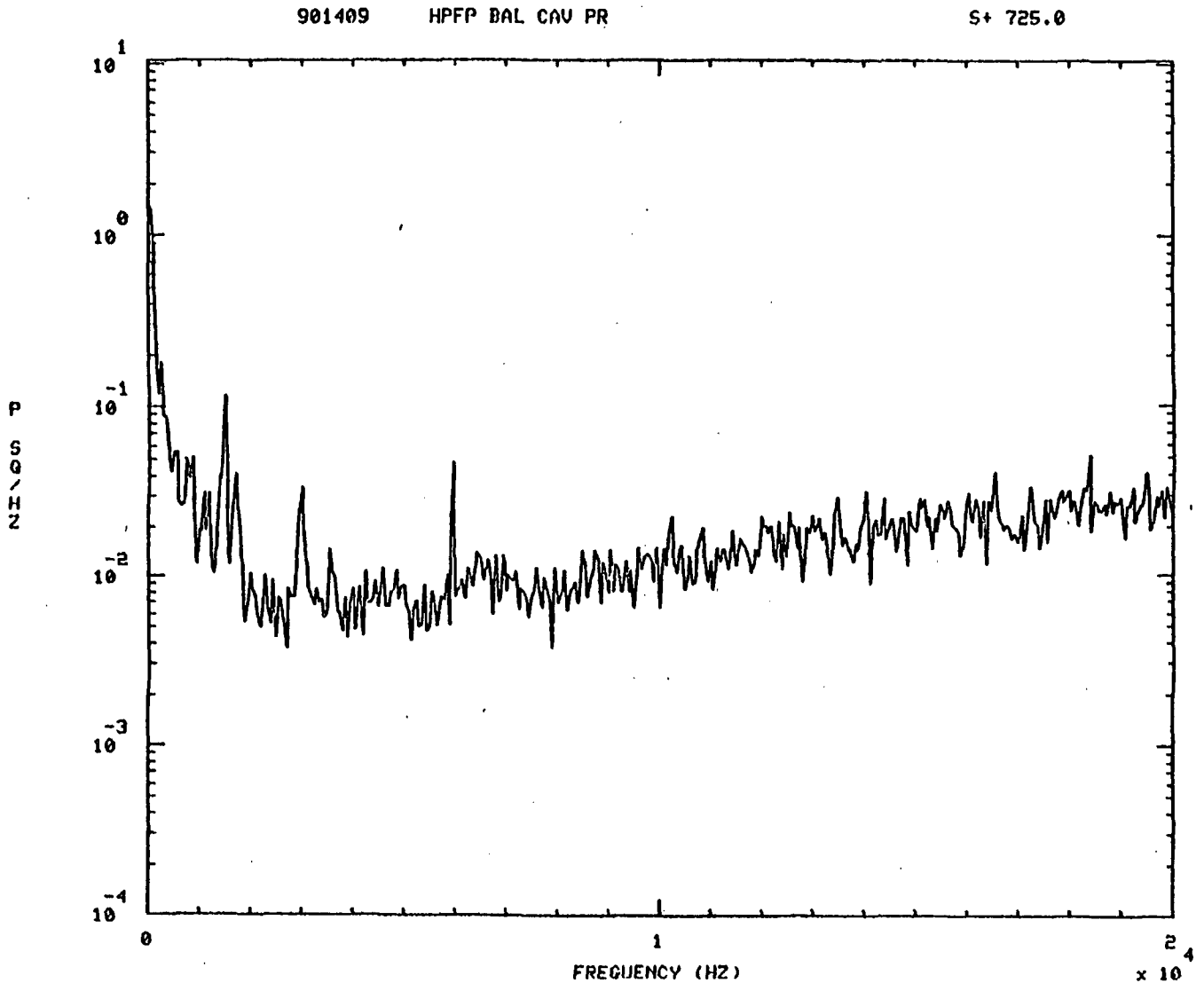

901409 HPFP BAL CAV PR
S+ 15.0
P
S
Q
\
H
Z
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
FREQUENCY (HZ)
x 10^4

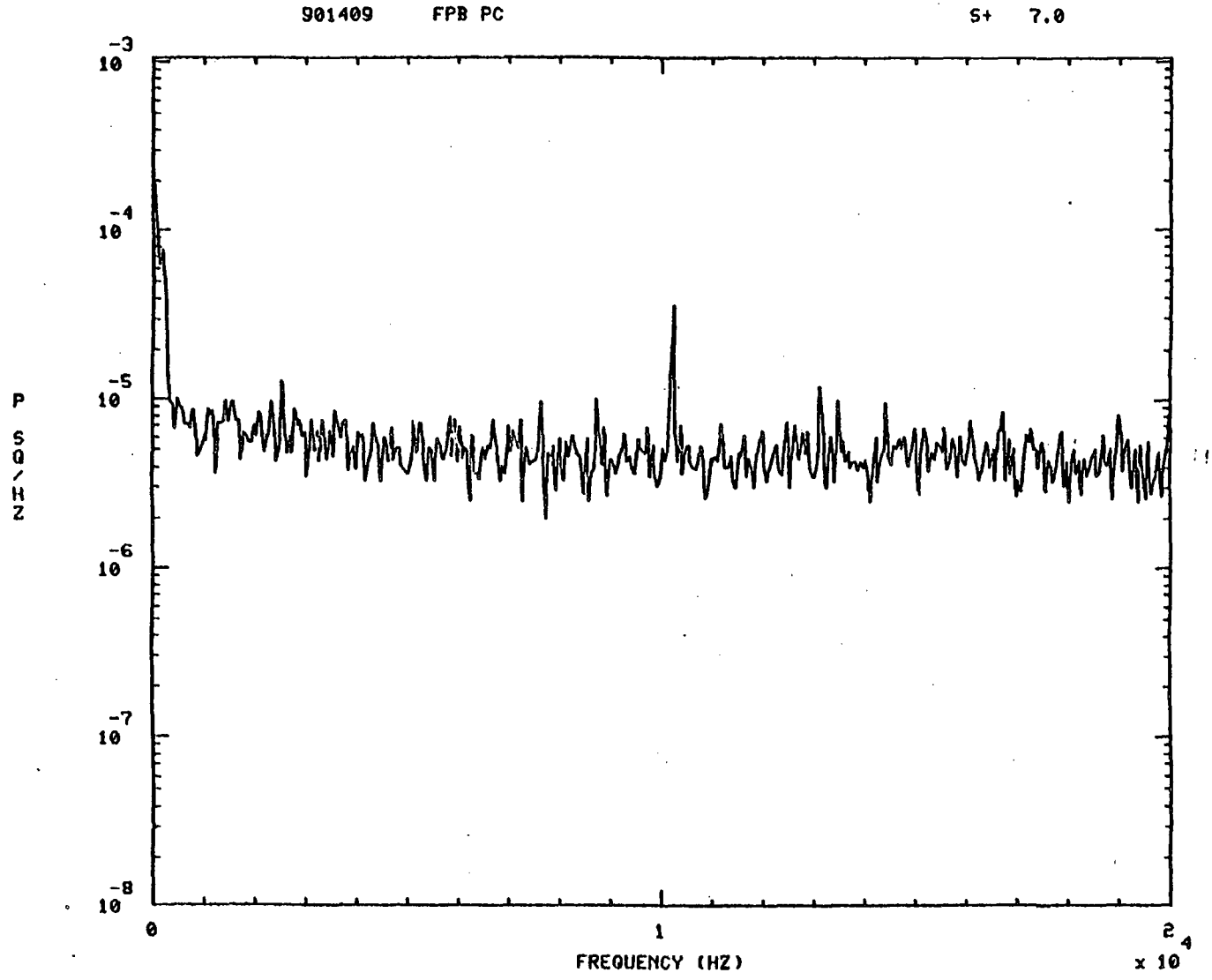

901409 HPFP BAL CAV PR
S+ 240.0
P S Q / H Z
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
FREQUENCY (HZ)
x 10^4

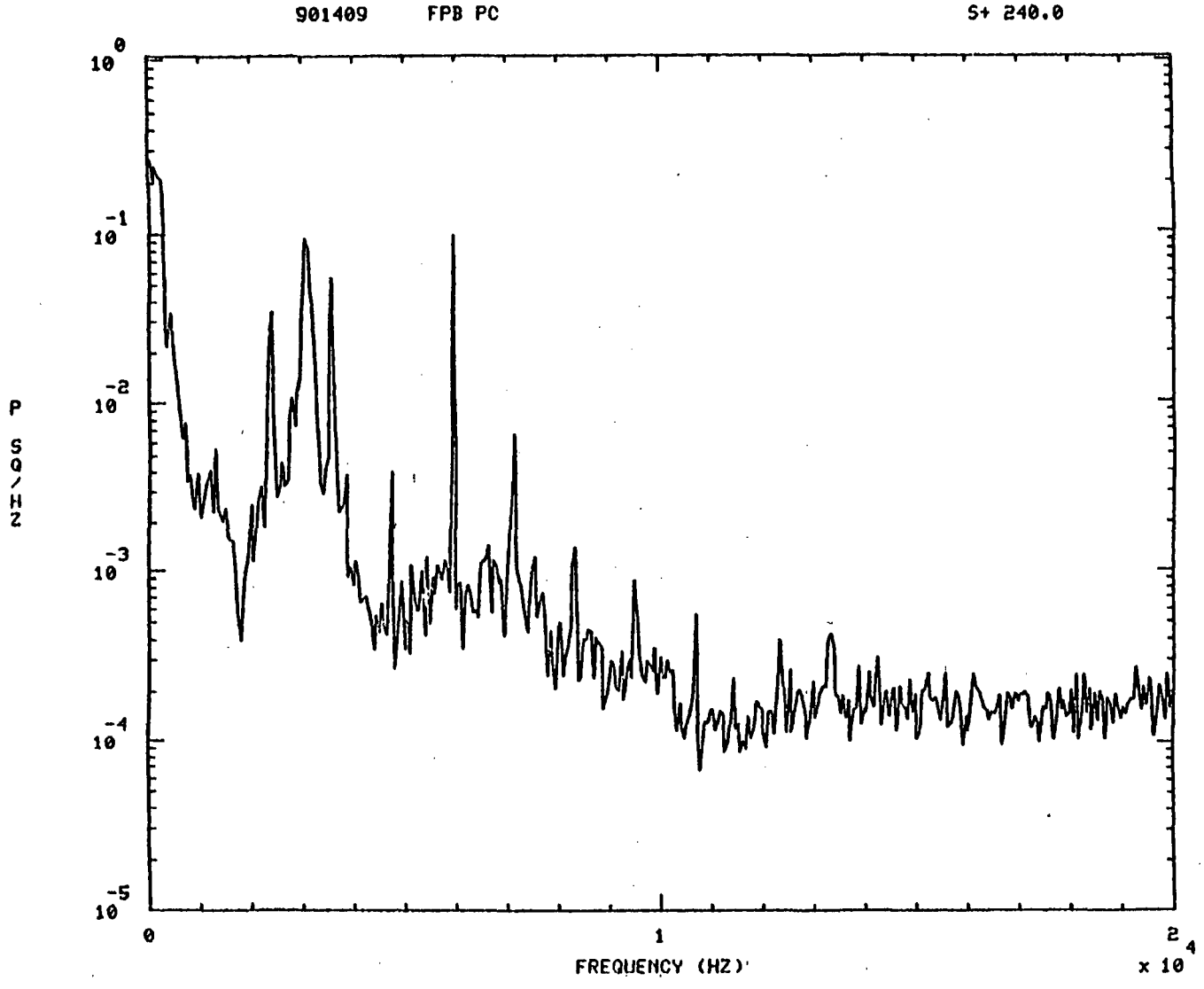

901409 HPFP BAL CAV PR
S+ 500.0
P S Q / H Z
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
FREQUENCY (HZ)
x 10^4

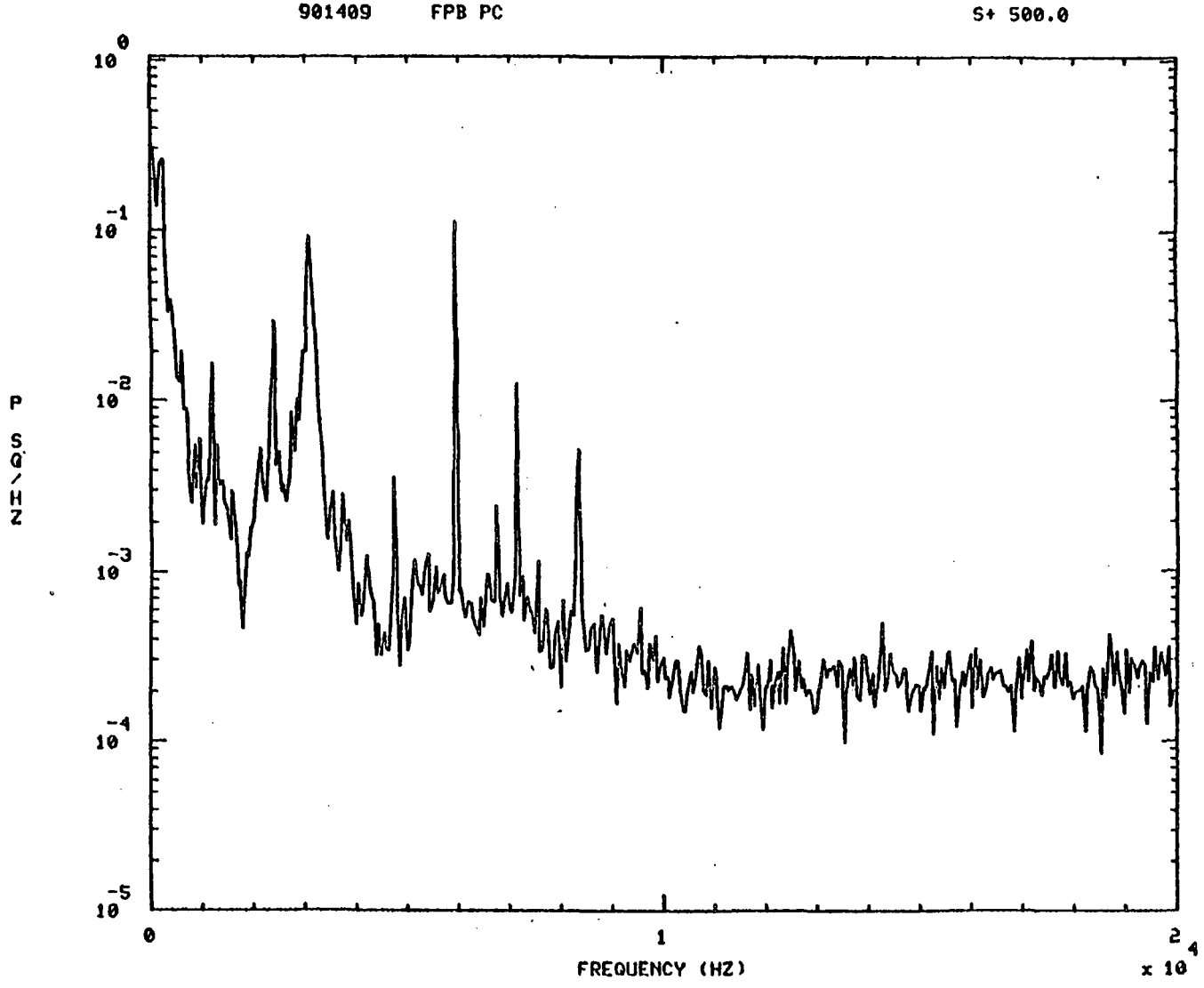

901409 HPFP BAL CAV PR
S+ 525.0
P S Q / H Z
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
FREQUENCY (HZ)
x 10^4

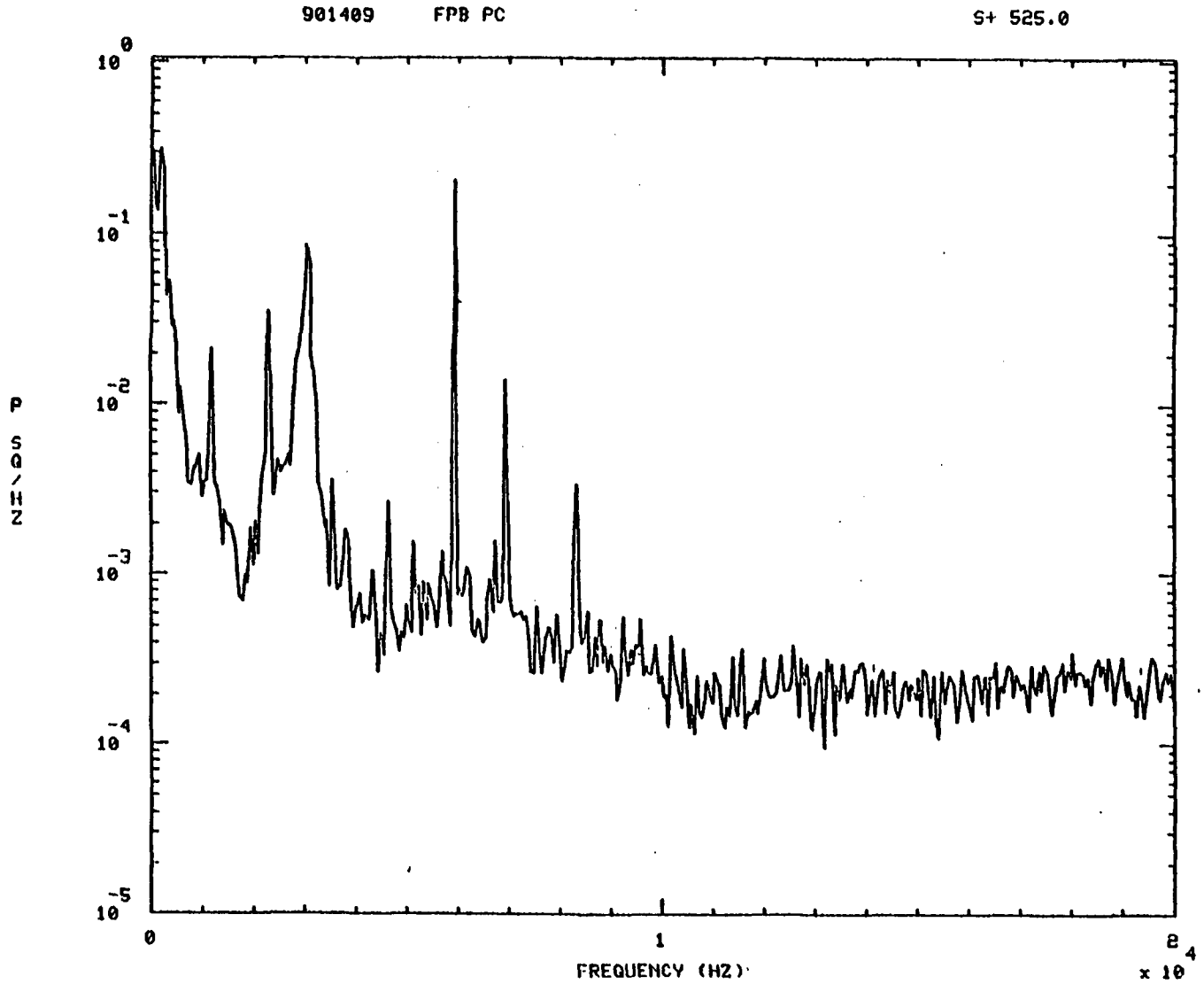

901409 HPFP BAL CAV PR
S+ 705.0
P S Q / H Z
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
1
2
FREQUENCY (HZ)
x 10^4

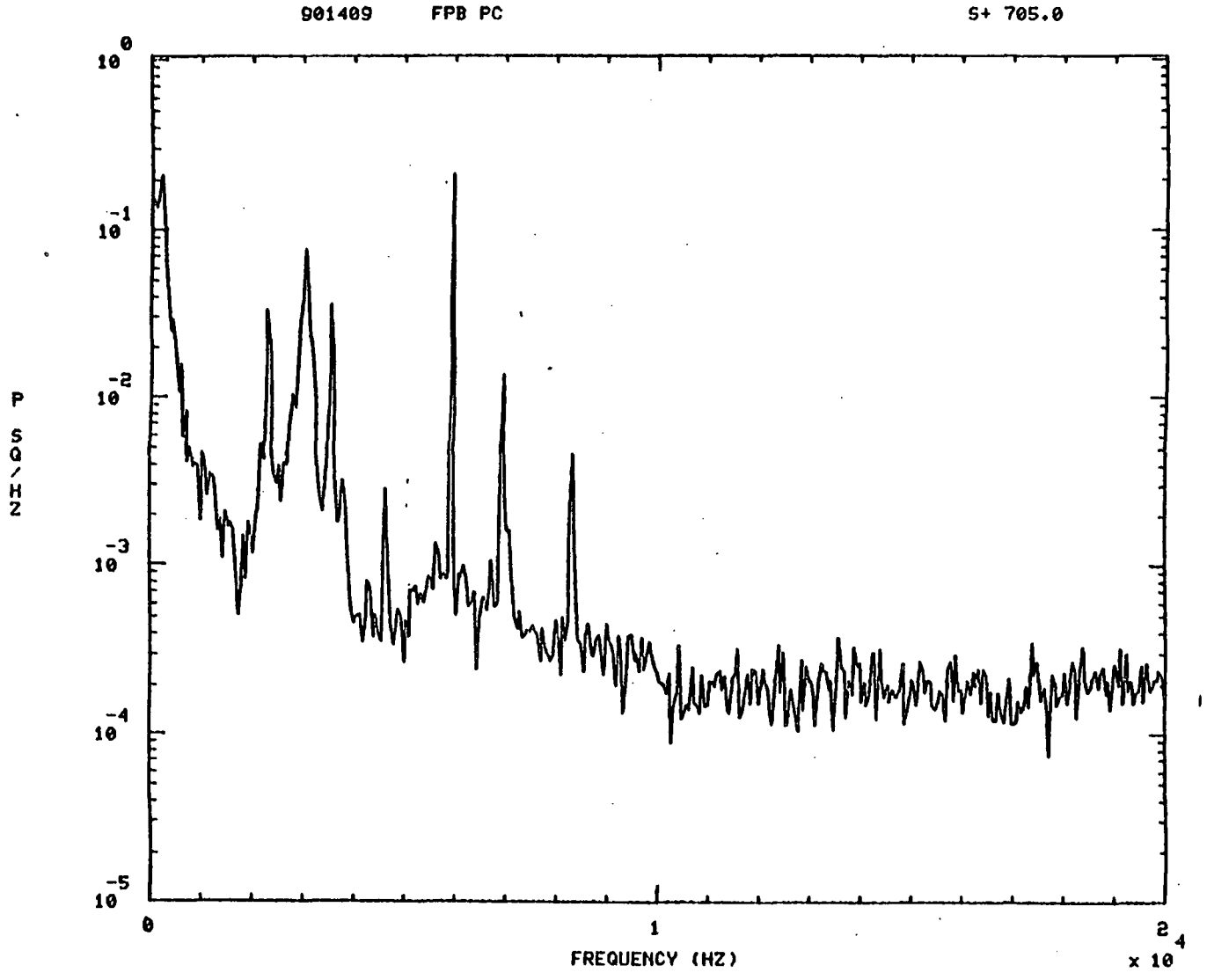

901409 HPFP BAL CAV PR
S+ 725.0
P S Q / H Z
10 1
10 0
10 -1
10 -2
10 -3
10 -4
0
1
2
FREQUENCY (HZ)
x 10 4

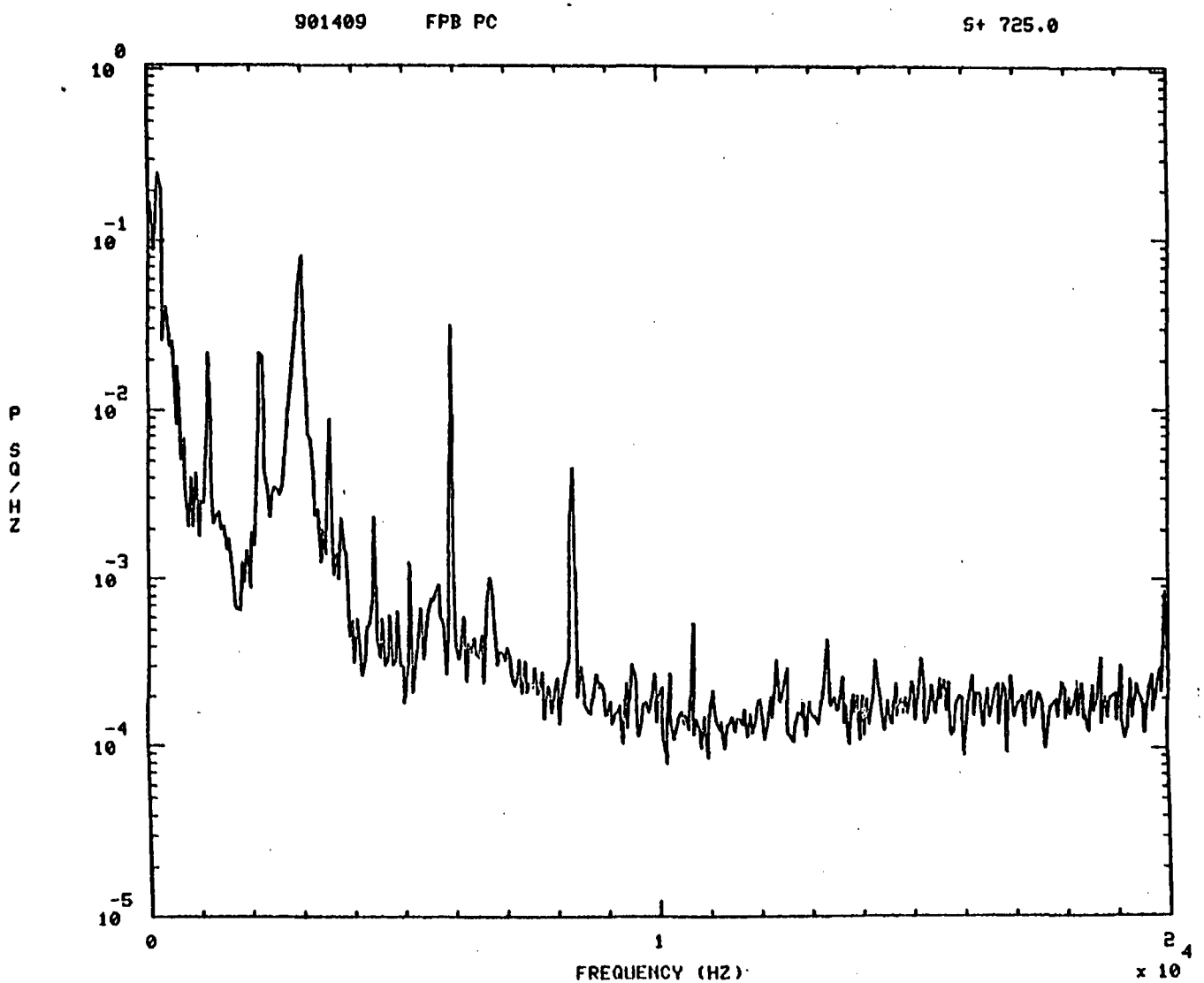

901409 FPB PC S+ 7.0
P SQ/HZ
10^-3
10^-4
10^-5
10^-6
10^-7
10^-8
0
1
2
FREQUENCY (HZ)
x 10^4

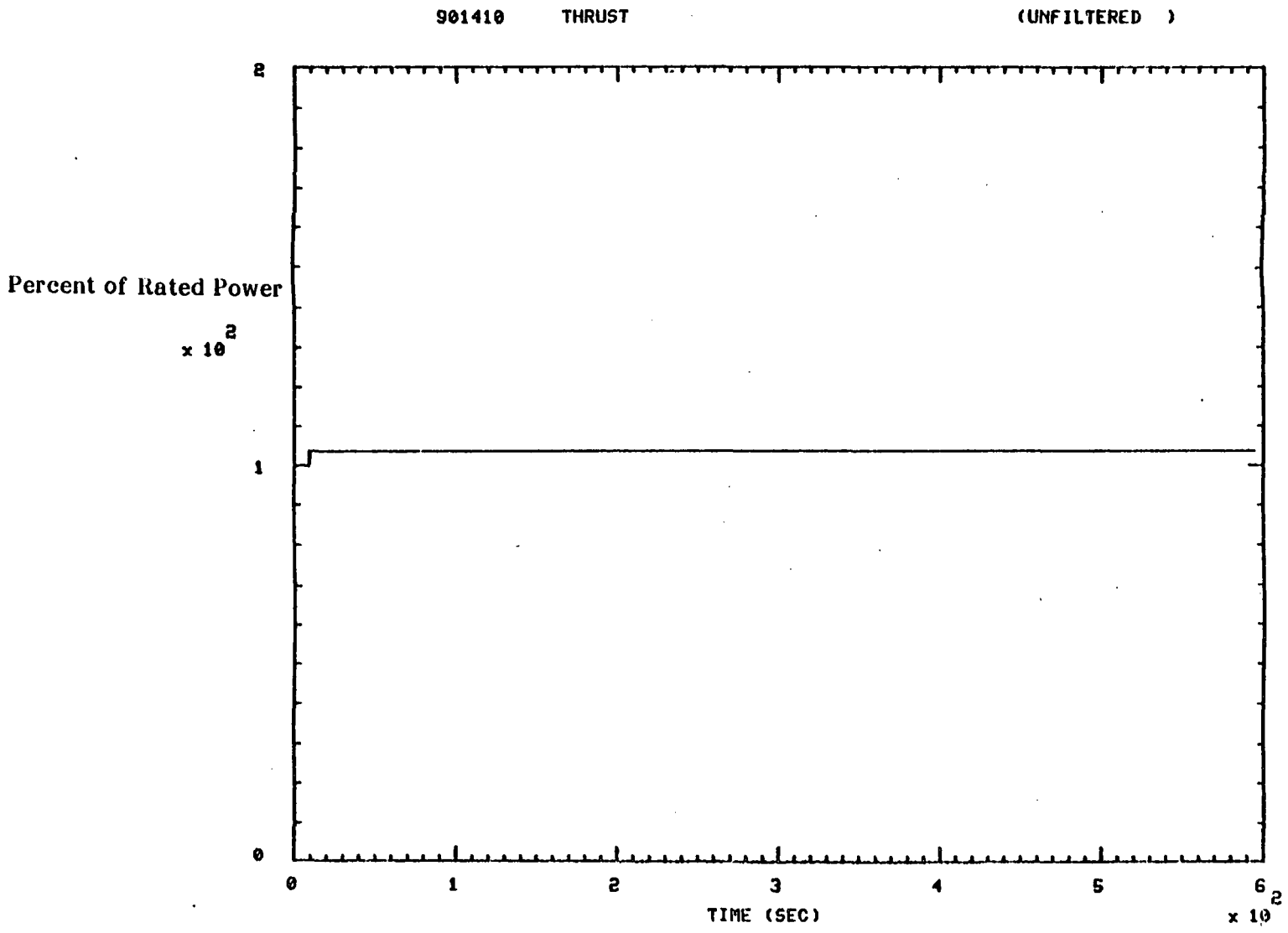

901409 FPB PC
S+ 240.0
P S0\HZ
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
4
x 10
FREQUENCY (HZ)

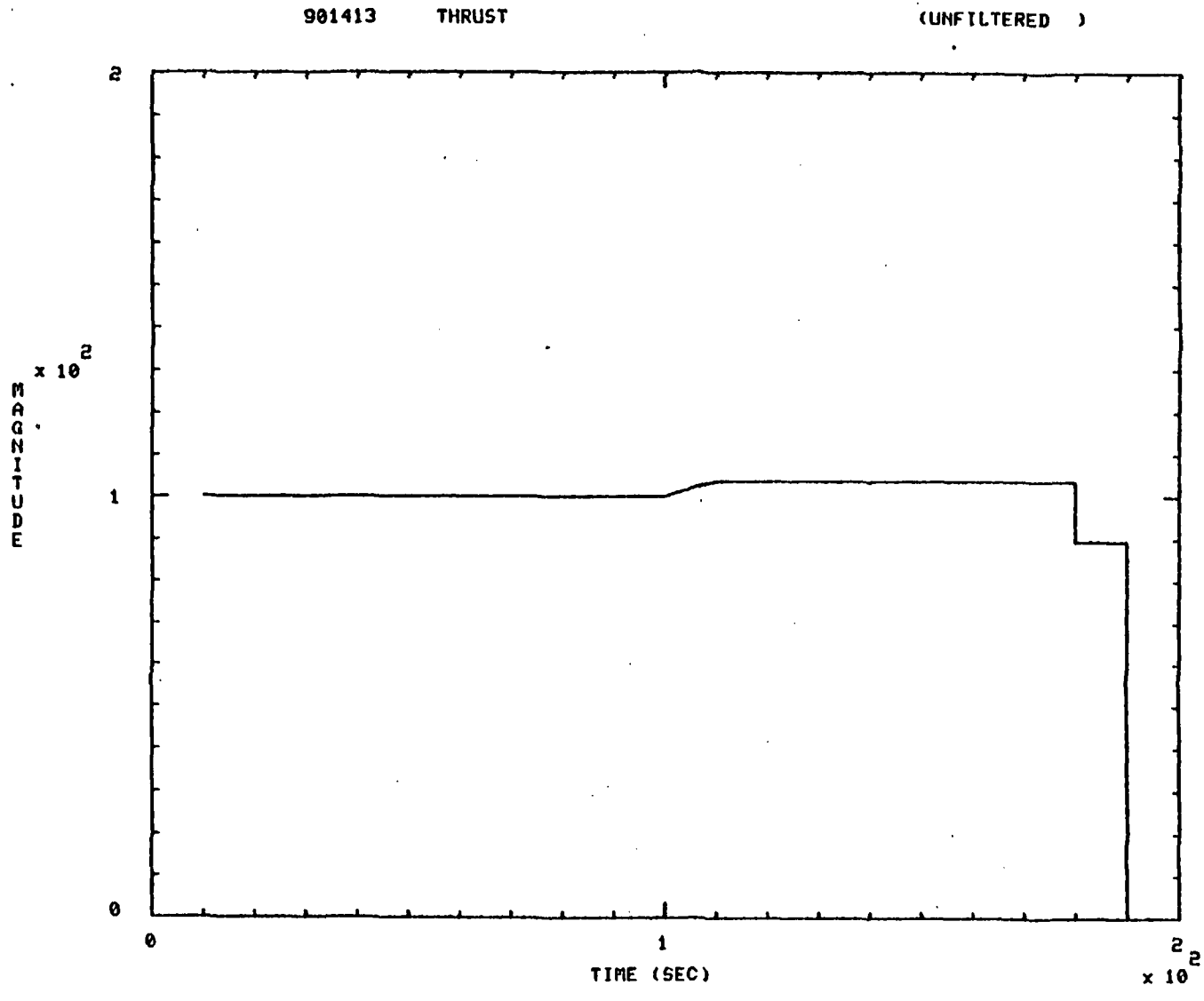

901409 FPB PC
S+ 500.0
P S/Q\HZ
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
FREQUENCY (HZ)
x 10^4

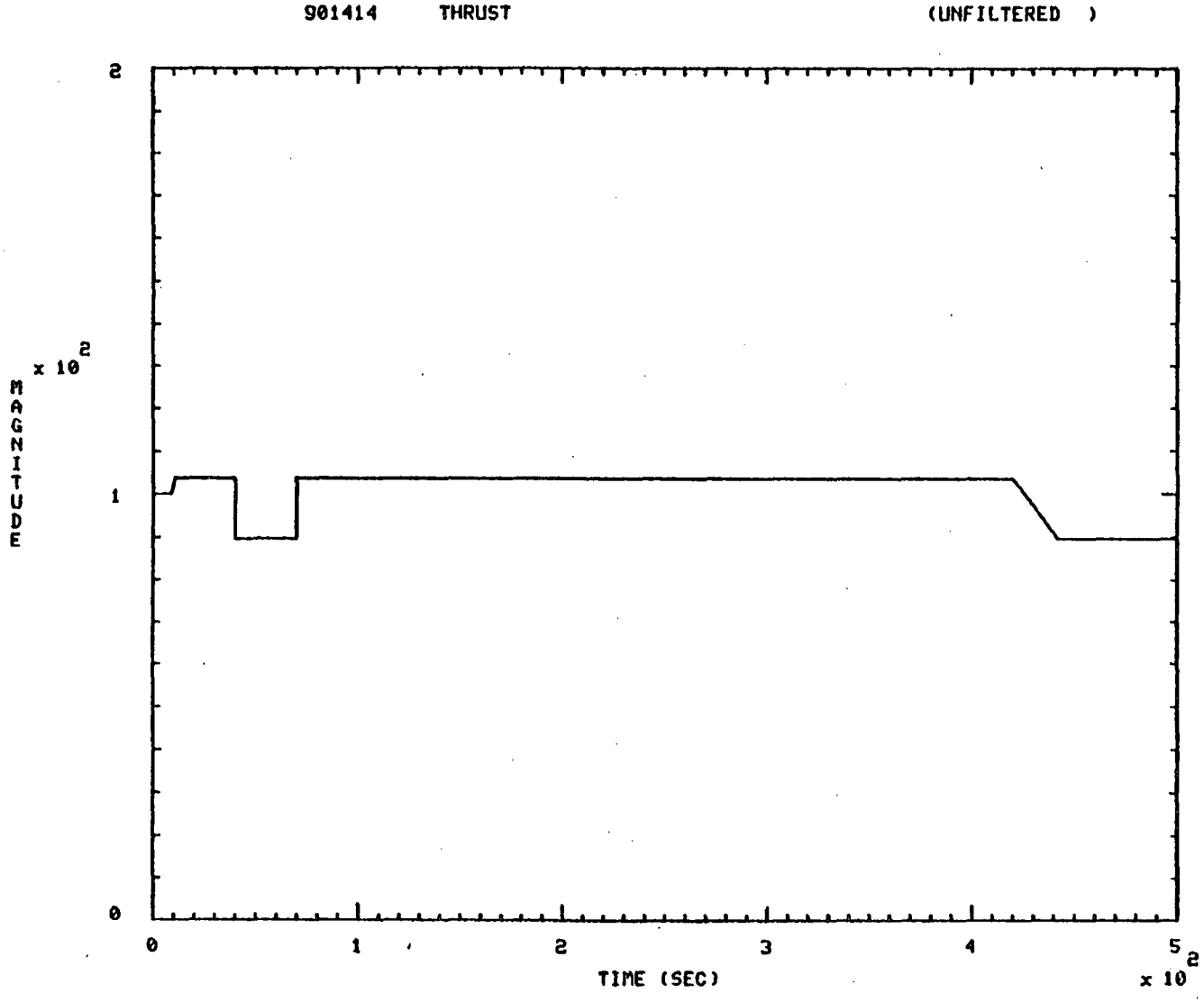

901409 FPB PC
S+ 525.0
P
S
Q
/
H
Z
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
FREQUENCY (HZ)
x 10^4


901409 FPB PC
S+ 705.0
P SQ\HZ
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
FREQUENCY (HZ)
x 10^4


901409 FPB PC
S+ 725.0
P
S
Q
/
H
Z
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
1
2
FREQUENCY (HZ)
x 10^4


901410 THRUST (UNFILTERED)
Percent of Rated Power
x 10^2
2
1
0
0
1
2
3
4
5
6
TIME (SEC)
x 10^2


901413 THRUST (UNFILTERED)
2
1
0
x 10 2
MAGNITUDE
0
1
2
x 10 2
TIME (SEC)


901414 THRUST (UNFILTERED)
2
1
0
x 10^2
MAGNITUDE
0
1
2
3
4
5
TIME (SEC)
x 10^2