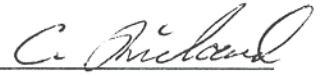


Nemko EESI, Inc.
Part 90 Spurious Emissions Data Sheet
(3m Open Area Test Site)

Client: Sonik
 EUT: VHF Paging Transmitter
 Model #: PTX-150

Conducted by: 
 Date of Test: 2/22/00
 Test Distance, Amp. gain: 3 m, 0 dB

Frequency (MHz)	Spectrum Analyzer Reading at 3m (dBμV)	f_x	Antenna Polorization (vertical or horizontal)	Amp. Gain & Cable Loss, Distance & Antenna Factor Correction for 3 m (dBuV/m)	Total Interference Level at 3 m (dBμV/m)
76.800	10.6	-	v	9.1	19.7
115.190	11.6	-	h	17.0	28.6
124.790	10.7	-	h	15.6	26.3
153.590	8.8	-	v	17.4	26.2
174.000	70	f_0	h	20.1	90.1
192.000	8.0	-	v	20.5	28.5
268.790	17.9	-	h	19.1	37.0
297.590	10.4	-	v	22.2	32.6
348.000	25.3	f_2	h	20.8	46.1
422.395	3.1	-	v	28.3	31.4
522.000	26.9	f_3	v	25.7	52.6
696.000	18.7	f_4	v	29.8	48.5
870.000	40.9	f_5	h	32.1	73.0
998.410	6.7	-	h	34.4	41.1
1044.000	21.6	f_6	v	28.5	50.1
1196.095	3.2	-	v	28.3	31.5
1218.000	19.6	f_7	v	28.3	47.9
1392.000	25.9	f_8	v	28.0	53.9
1566.000	16.8	f_9	h	28.2	45.0
1740.000	20.2	f_{10}	v	28.9	49.1

Test Conditions: Standard radiated emissions test set up on FCC registered open field site. The highest emissions for all antenna heights, polarities, and table orientations are the only emissions recorded.

RADIATED EMISSIONS DATA SHEET

Date: 2-22-00 | Location: NO ATS | Test Personnel: Chuck | Co./EUT: SONIK PTX-150

Power: 115VAC 60 Hz	Temp. °C:	R.H.:	%	Barometric Press :	in. Hg	Frequency Range Requirement:
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Test Description: FCC Part 90

$f_0 = 174 \text{ M/g into Dummy Load!}$

[illegible]

fccemiss

Test Description: FCC $f_0 = 174 \text{ MHz}$

[illegible]

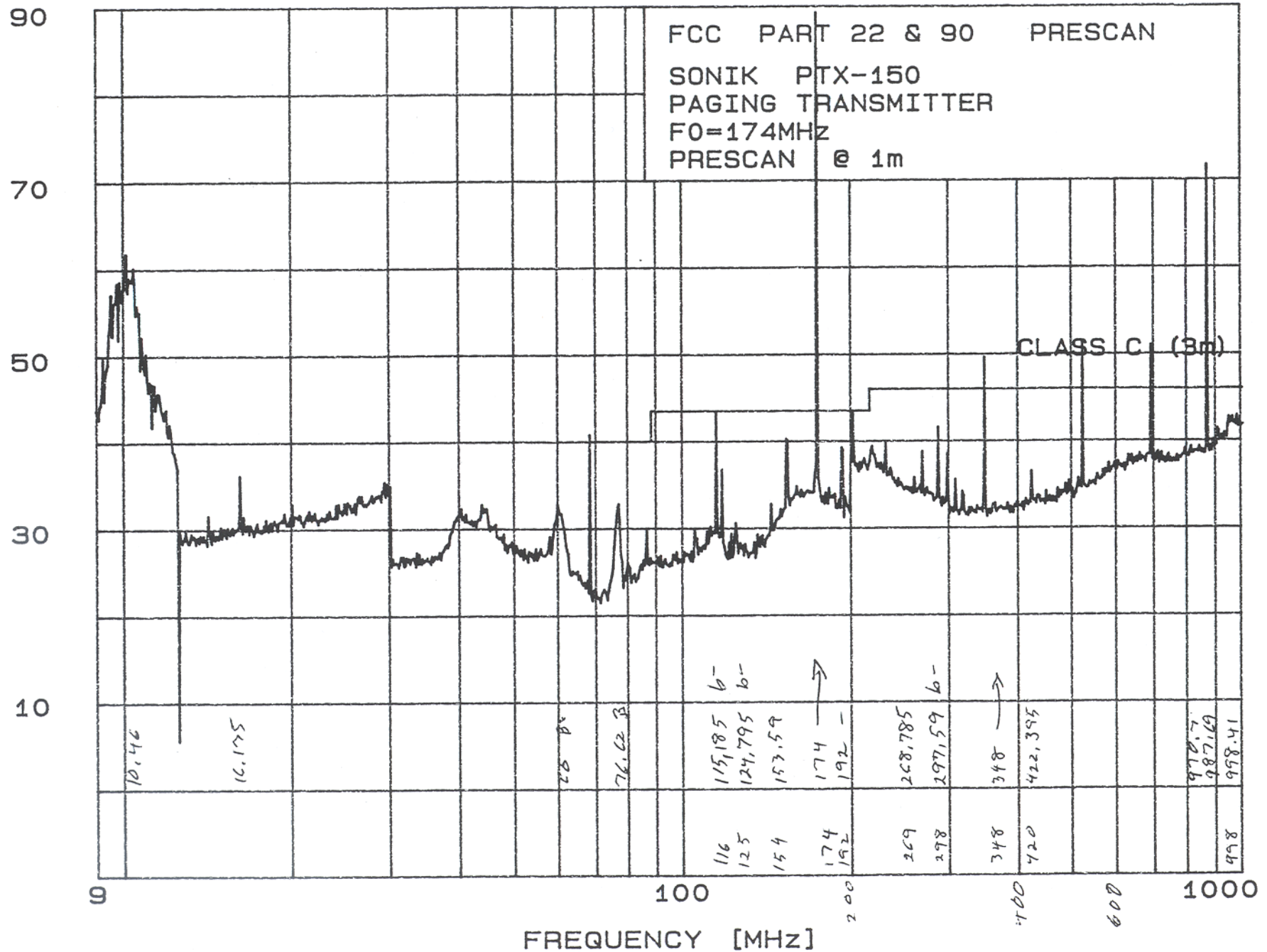
fccemiss

22 Feb 2000 10:12:57

hp

EMISSION LEVEL [dBUV/m]

FCC PART 22 & 90 PRESCAN
 SONIK PTX-150
 PAGING TRANSMITTER
 F0=174MHZ
 PRESCAN @ 1m



SONIK PTX-150

 $f_0 = 174 \text{ MHz}$

2-22-00

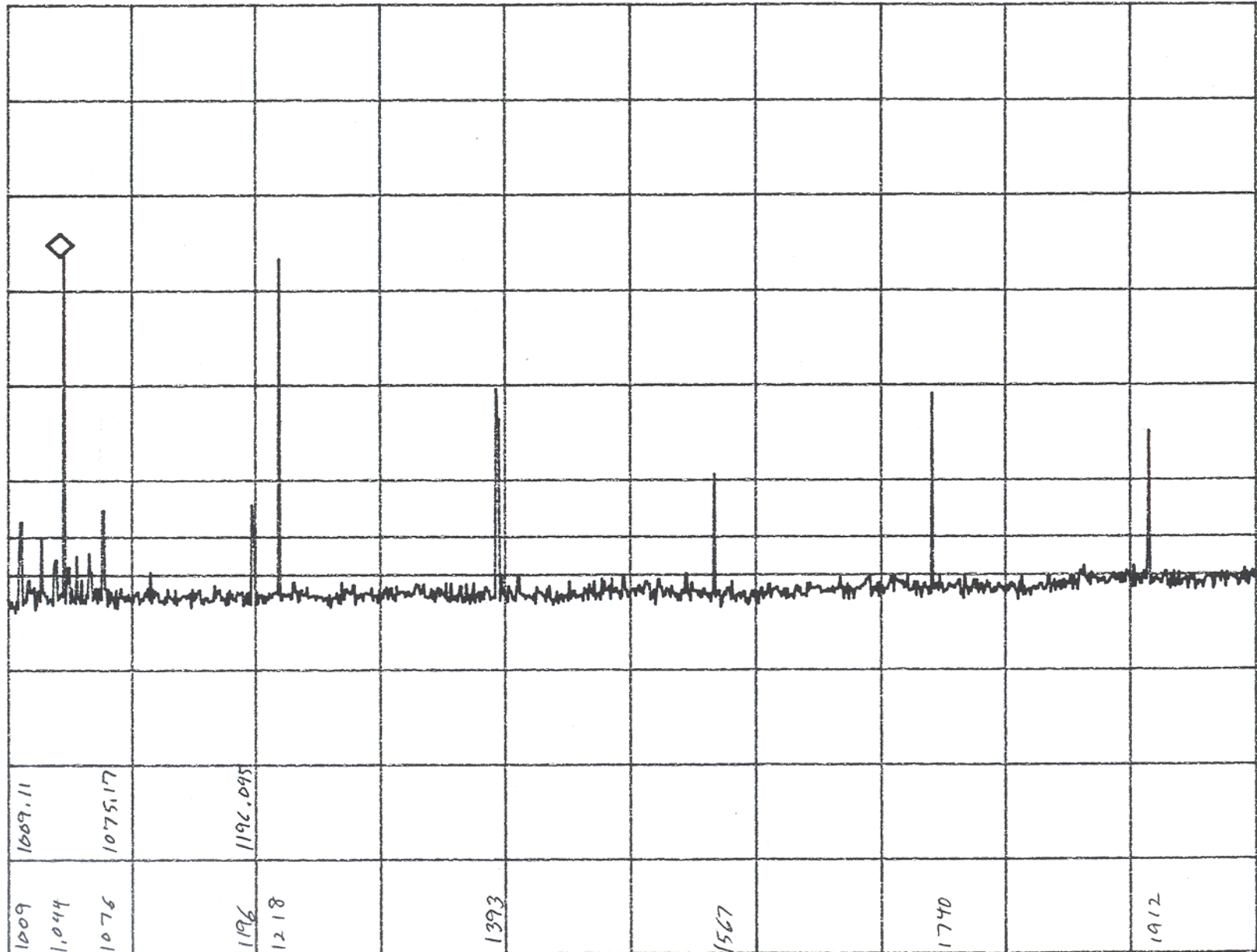
hp

REF 77.0 dBuV

ATTEN 0 dB

MKR 1.044 GHz
50.60 dBuV

10 dB/

OFFSET
-10.0
dBDL
21.0
dBuV

START 1.00 GHz

STOP 2.00 GHz

RES BW 1 MHz

VBW 1 MHz

SWP 200 msec

SONIX PTX-150

 $f_0 = 138 \text{ MHz}$

2-22-00

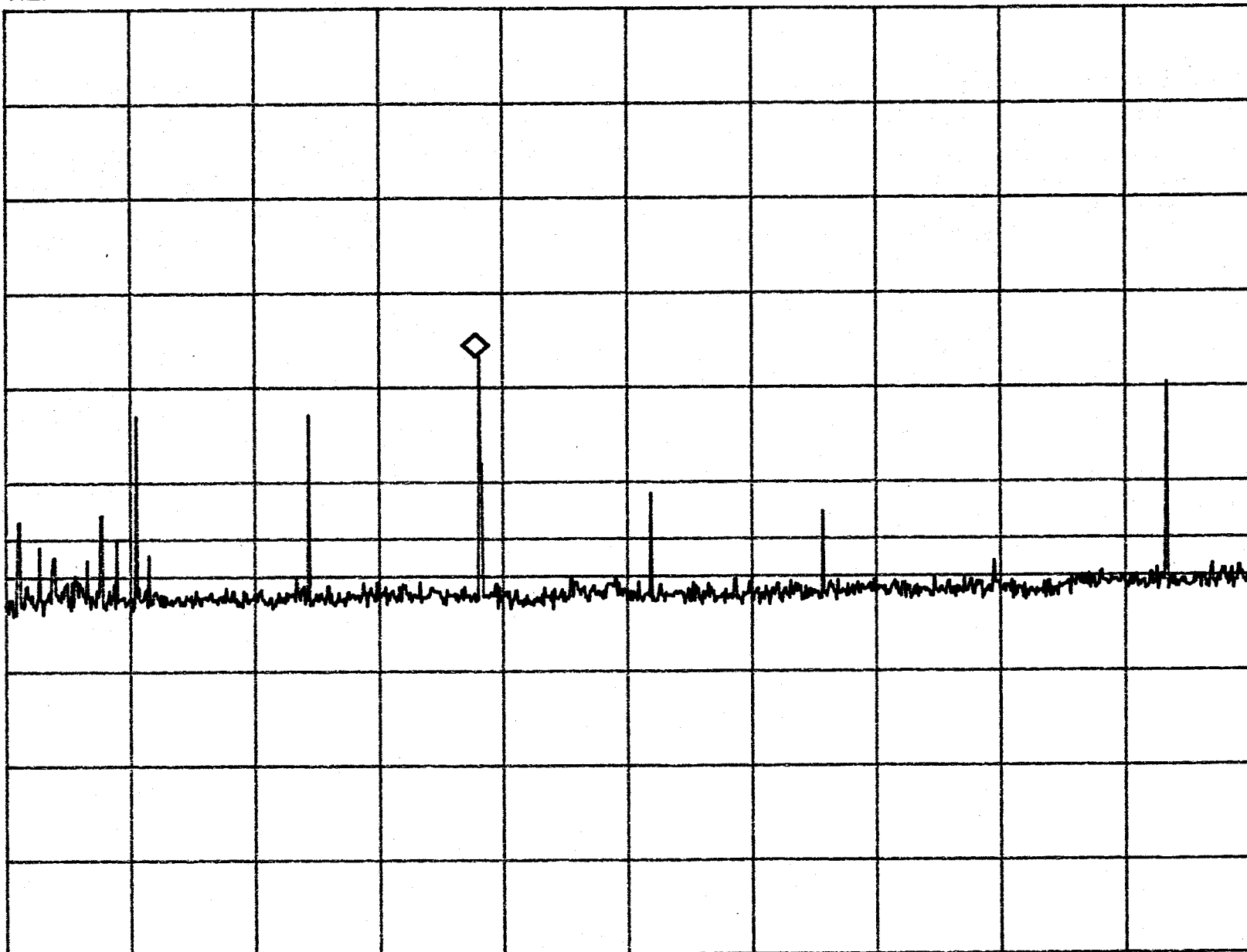
hp

REF 77.0 dBuV

ATTEN 0 dB

MKR 1.380 GHz
40.30 dBuV

10 dB/

OFFSET
-10.0
dBDL
21.0
dBuV

START 1.00 GHz

STOP 2.00 GHz

RES BW 1 MHz

VBW 1 MHz

SWP 200 msec

SONIK PTX-150

MNT-PTX-150

$f_0 = 156 \text{ MHz}$

2-22-00

hp

REF 77.0 dBuV

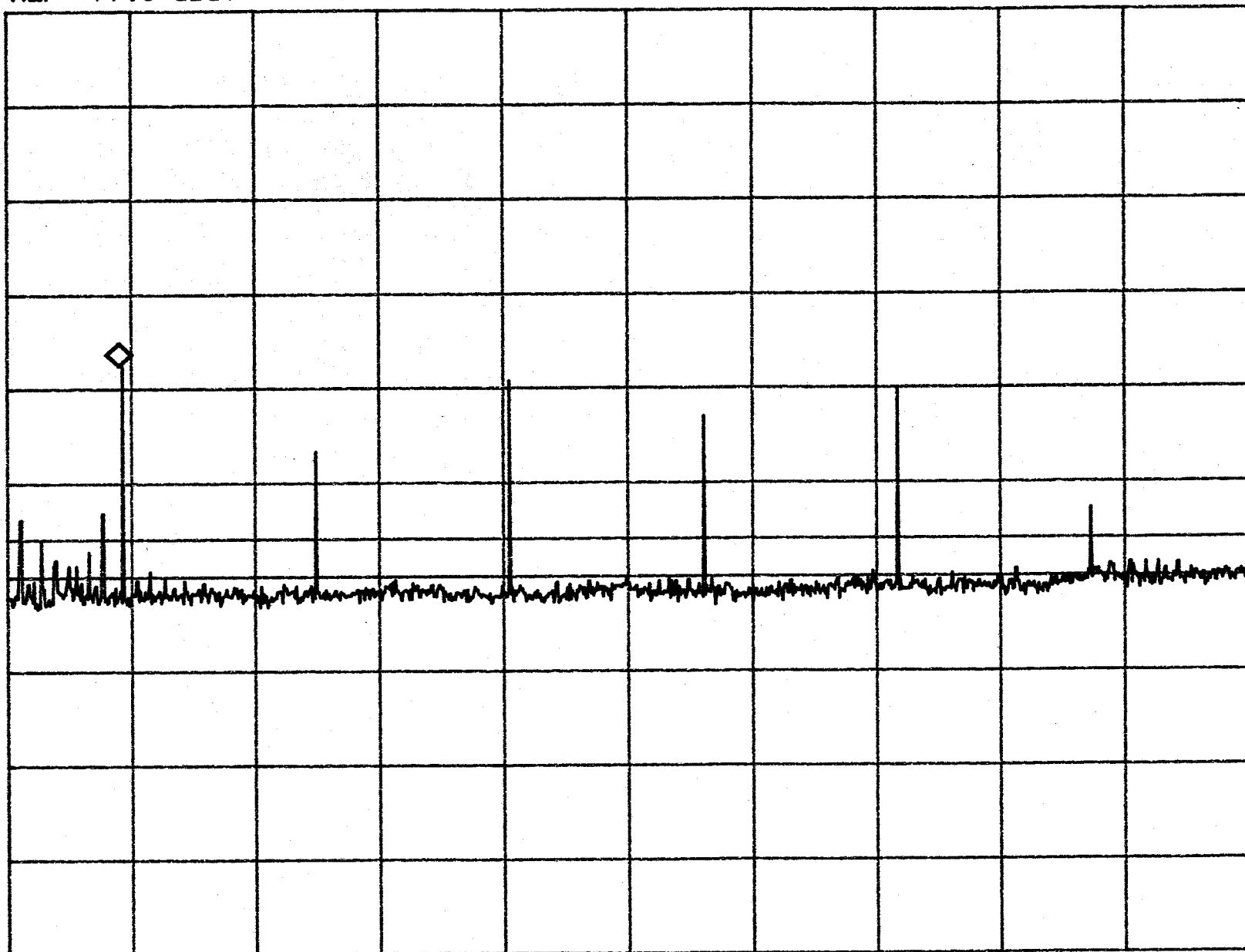
ATTEN 0 dB

MKR 1.092 GHz
39.50 dBuV

10 dB/

OFFSET
-10.0
dB

DL
21.0
dBuV



START 1.00 GHz

STOP 2.00 GHz

RES BW 1 MHz

VBW 1 MHz

SWP 200 msec

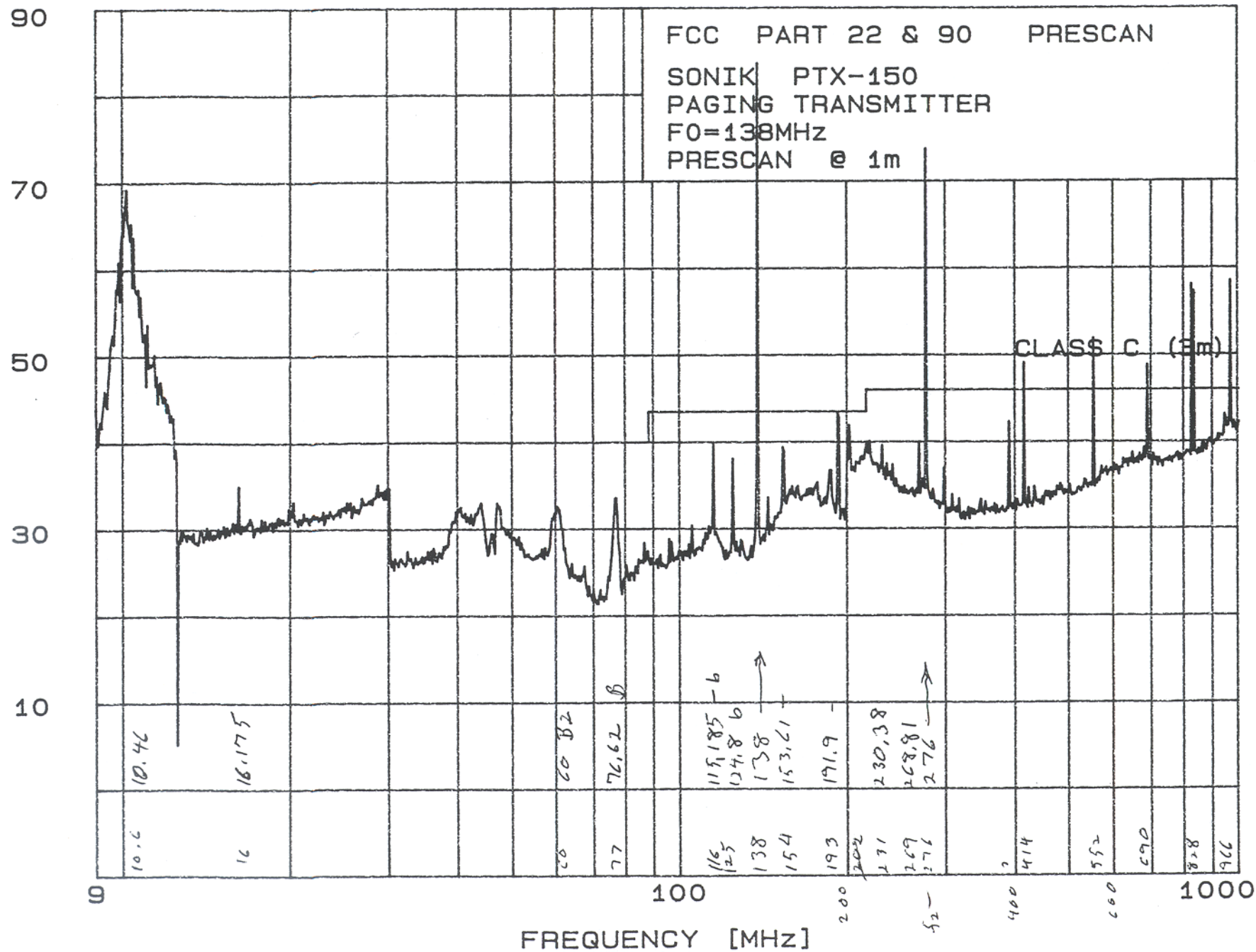
22 Feb 2000 09:39:42

hp

EMISSION LEVEL [dBuV/m]

FCC PART 22 & 90 PRESCAN

SONIK PTX-150
PAGING TRANSMITTER
FO=138MHz
PRESCAN @ 1m



hp

22 Feb 2000 10:05:56

EMISSION LEVEL [dBuV/m]

FCC PART 22 & 90 PRESCAN

SONIK PTX-150
PAGING TRANSMITTER
F0=156MHz
PRESCAN @ 1m

90

70

50

30

10

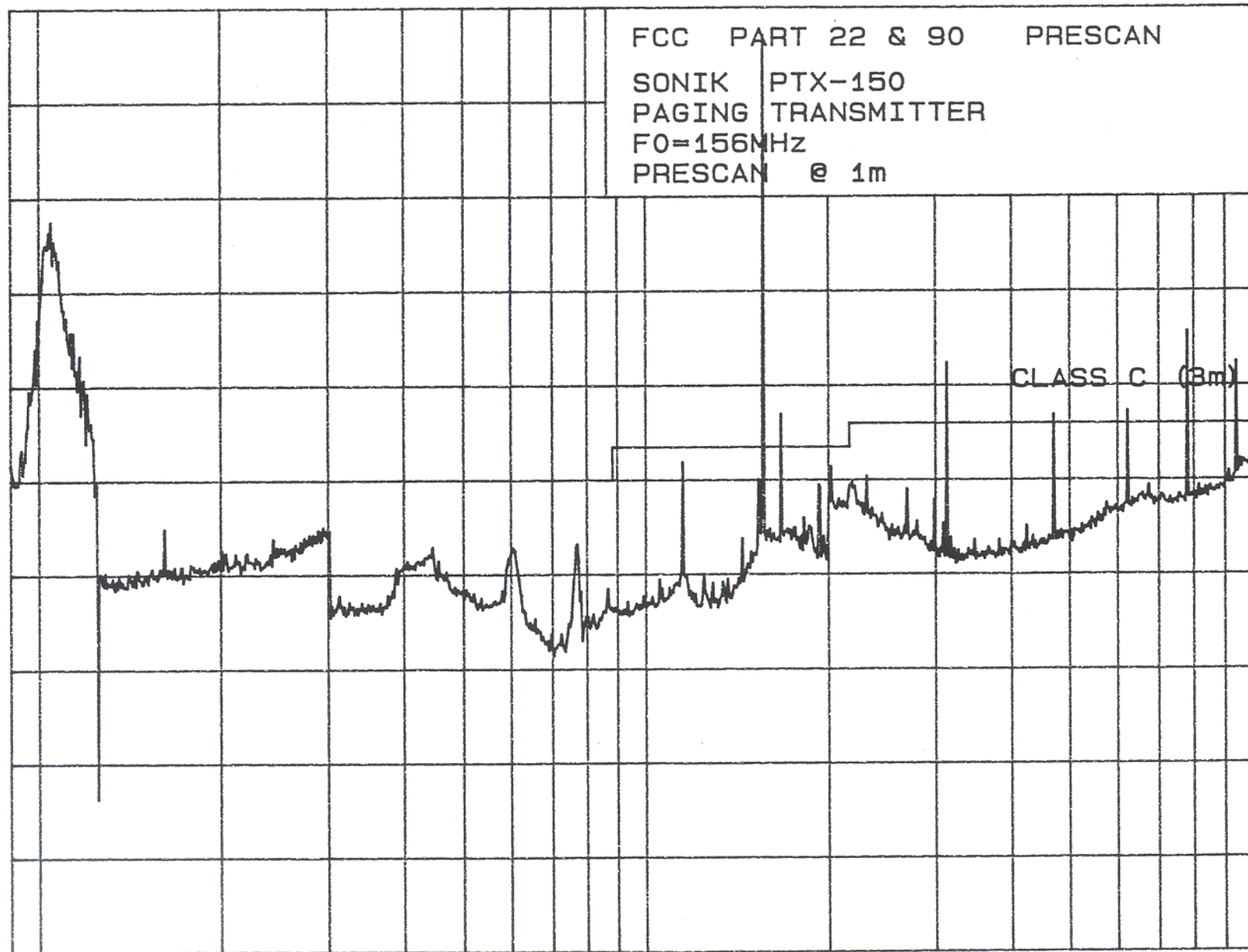
CLASS C (3m)

9

100

1000

FREQUENCY [MHz]



hp

22 Feb 2000 09:10:55

EMISSION LEVEL [dBuV/m]

MNT-PTX-150

FCC PART 22 & 90 PRESCAN
SONIK PTX-150
PAGING TRANSMITTER & SIG GEN
 $f_0 = 138 \text{ MHz}$
PRESCAN @ 1m

90

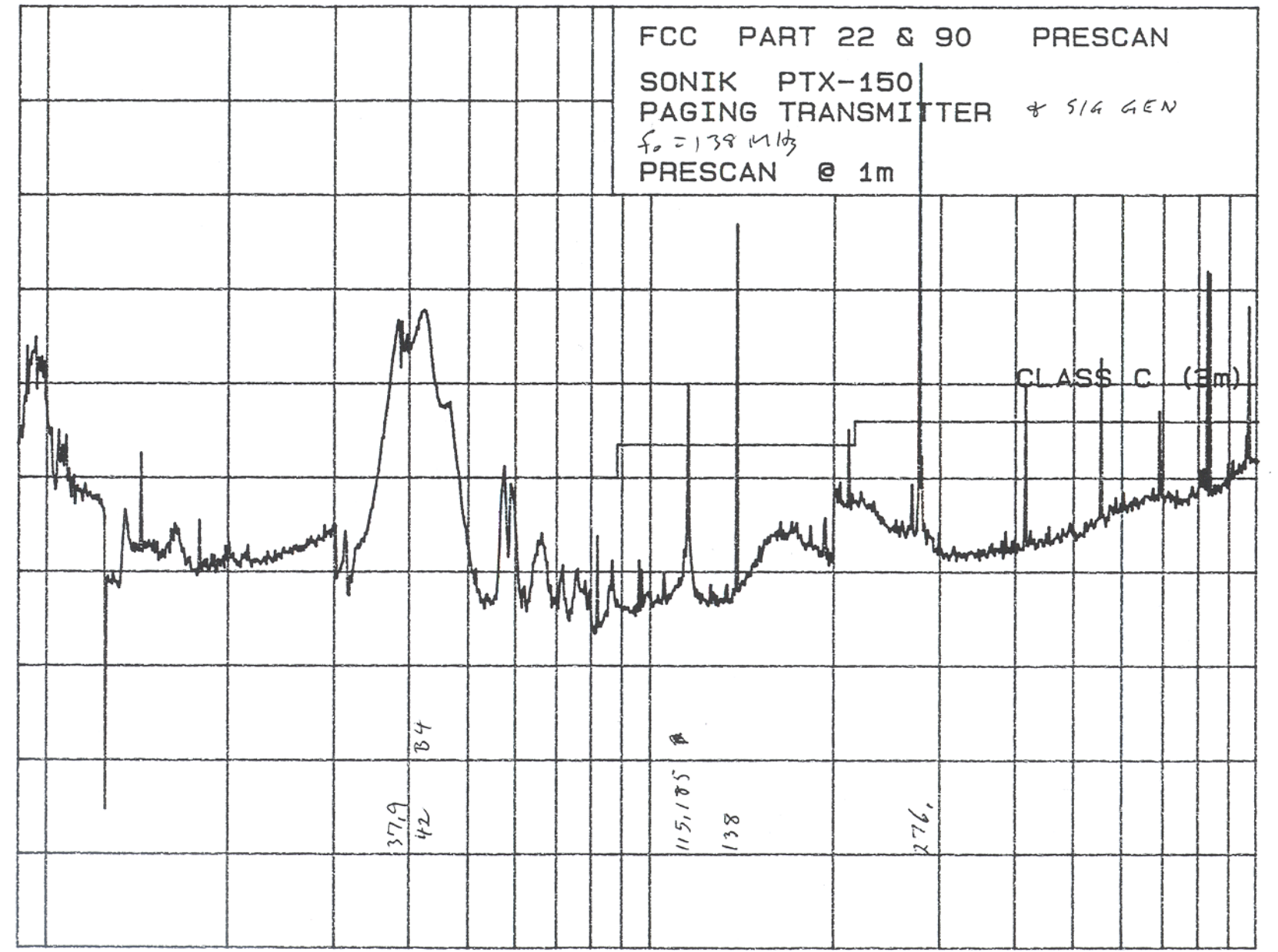
70

50

30

10

CLASS C (3m)



9

100

1000

FREQUENCY [MHz]