

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: *C. Michael*
 Date of Test: 2/22/00
 Test Distance, Amp. gain: 3 m, 0 dB

Frequency (MHz)	Spectrum Analyzer Reading at 3m (dB μ V)	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 (dB μ V/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.

Test Description: FCC Part 90 $f_0 = 174 \text{ MHz}$ into Dummy Load.

fccemiss

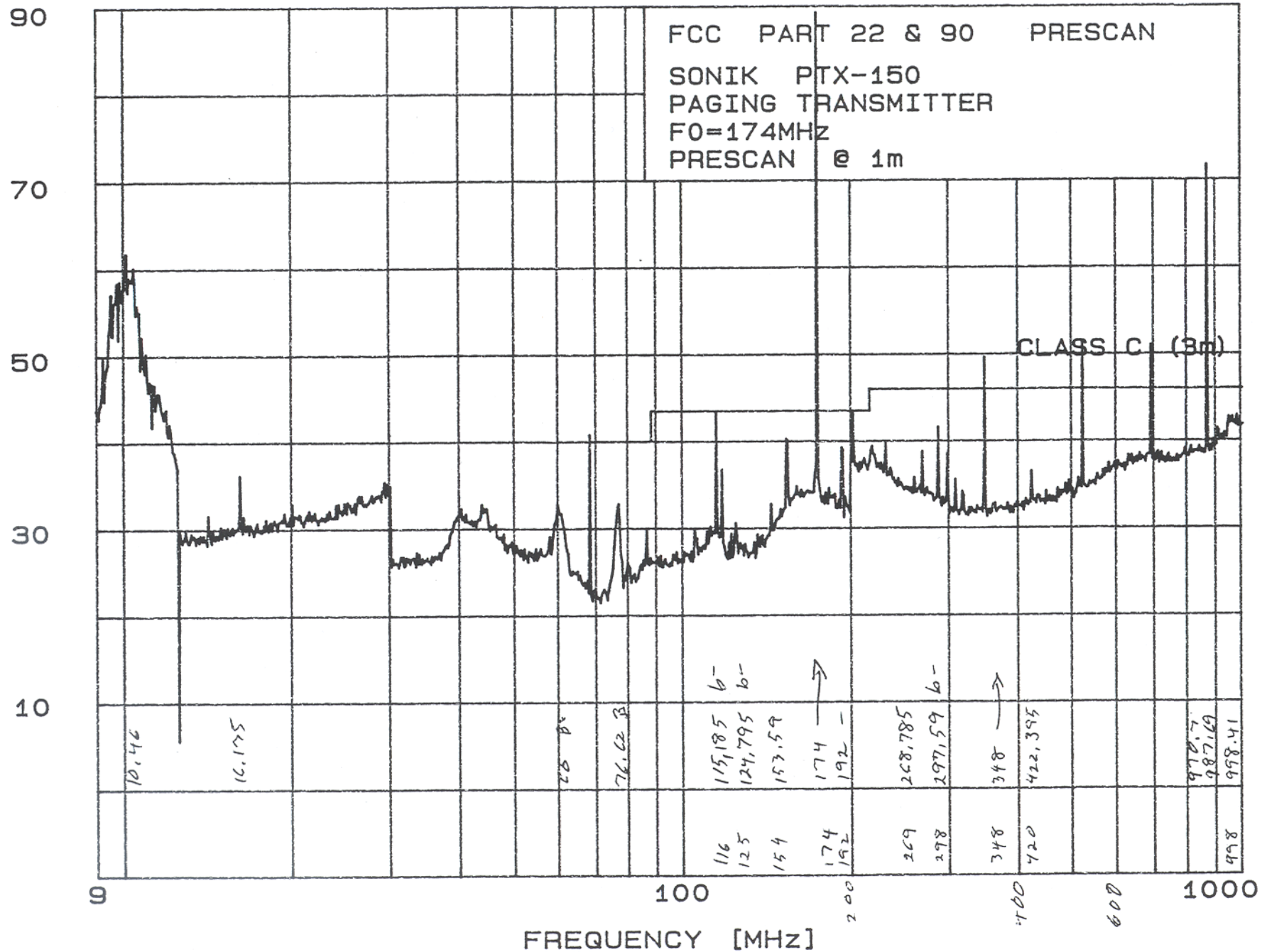
Test Description: FCC $f_0 = 174 \text{ MHz}$

[illegible]

fccemiss

EMISSION LEVEL [dBUV/m]

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SONIK PTX-150
PAGING TRANSMITTER
FO=174MHZ
PRESCAN @ 1m
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SONIK PTX-150

 $f_0 = 174 \text{ MHz}$

2-22-00

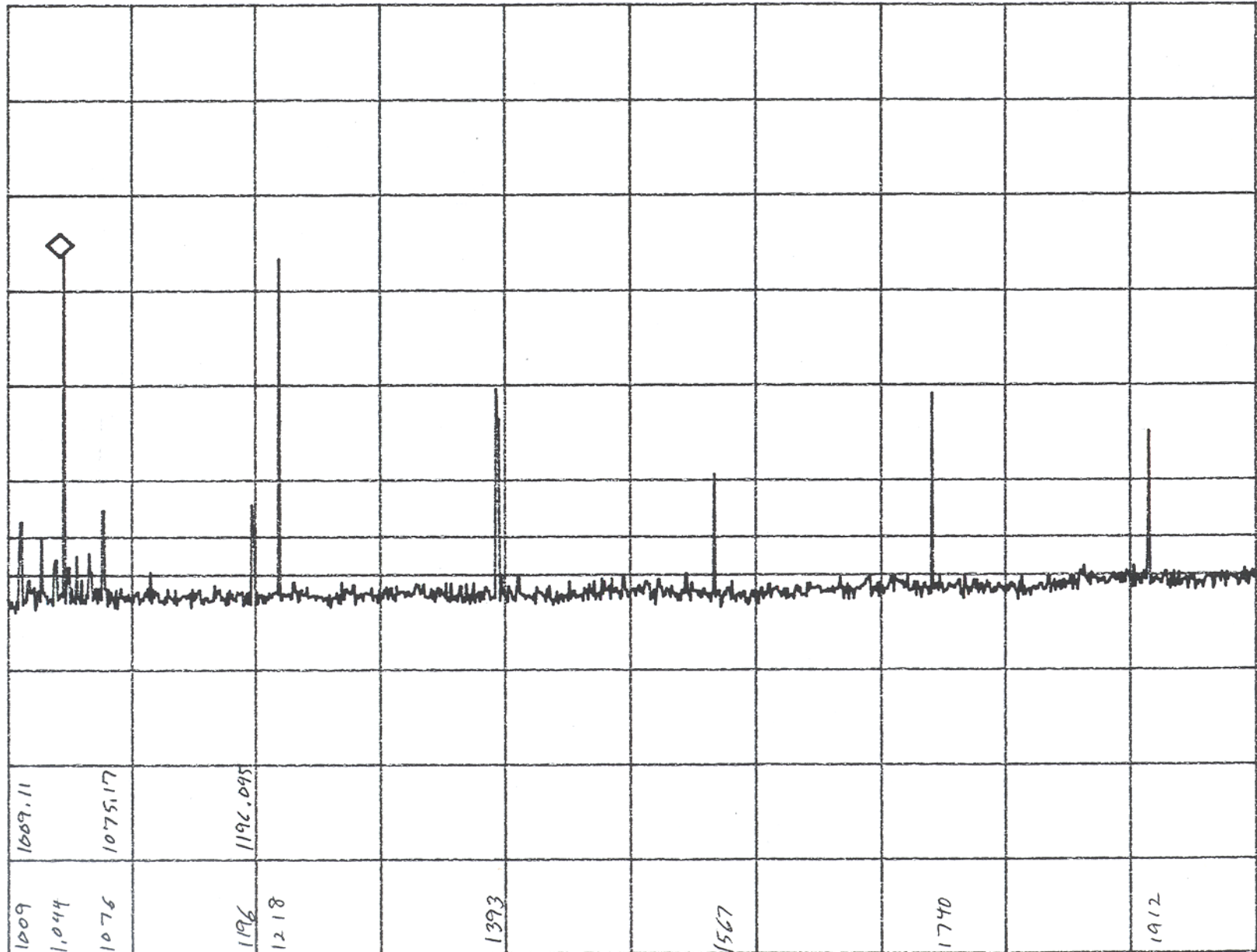
hp

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

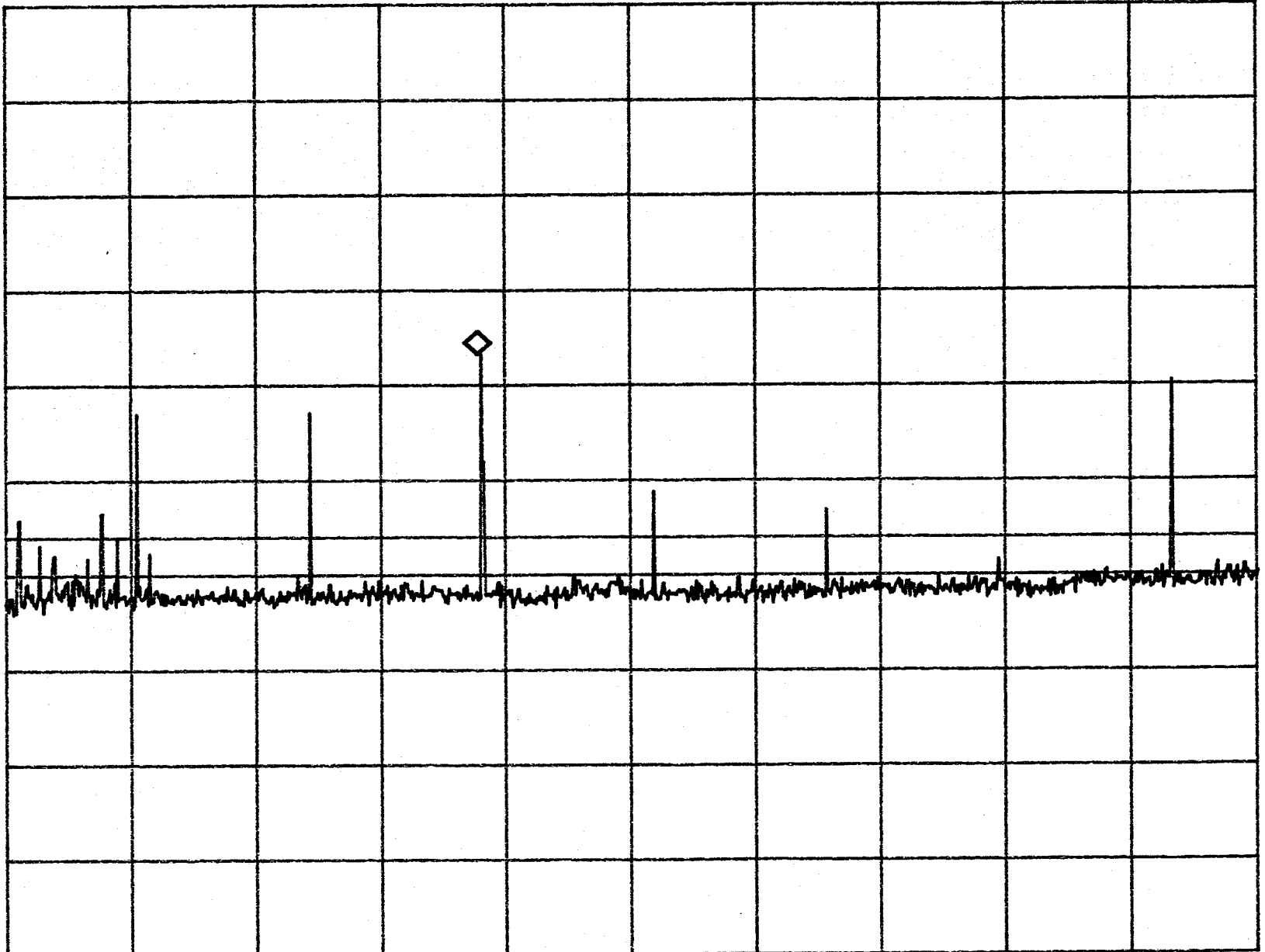
hp

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

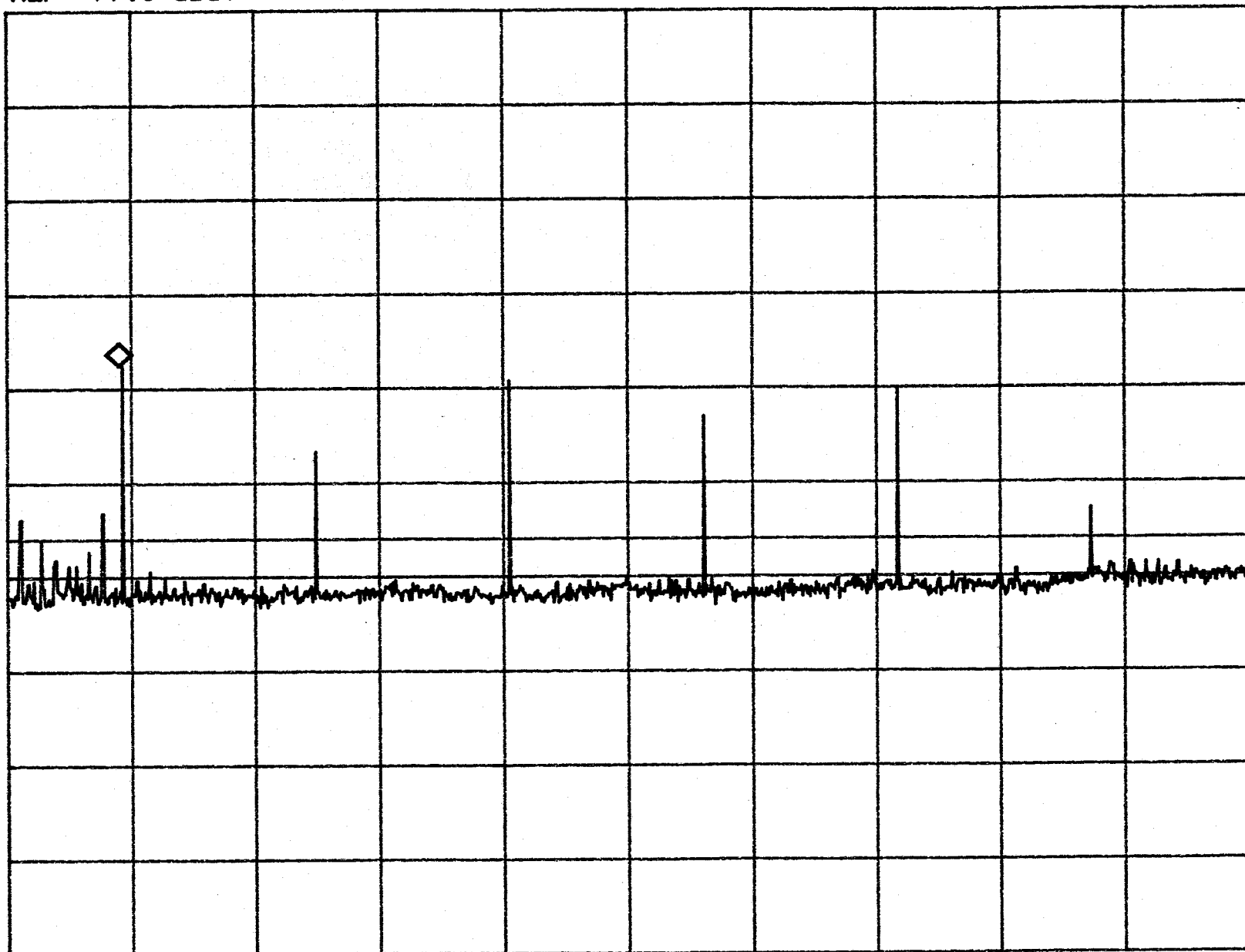
ATTEN 0 dB

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

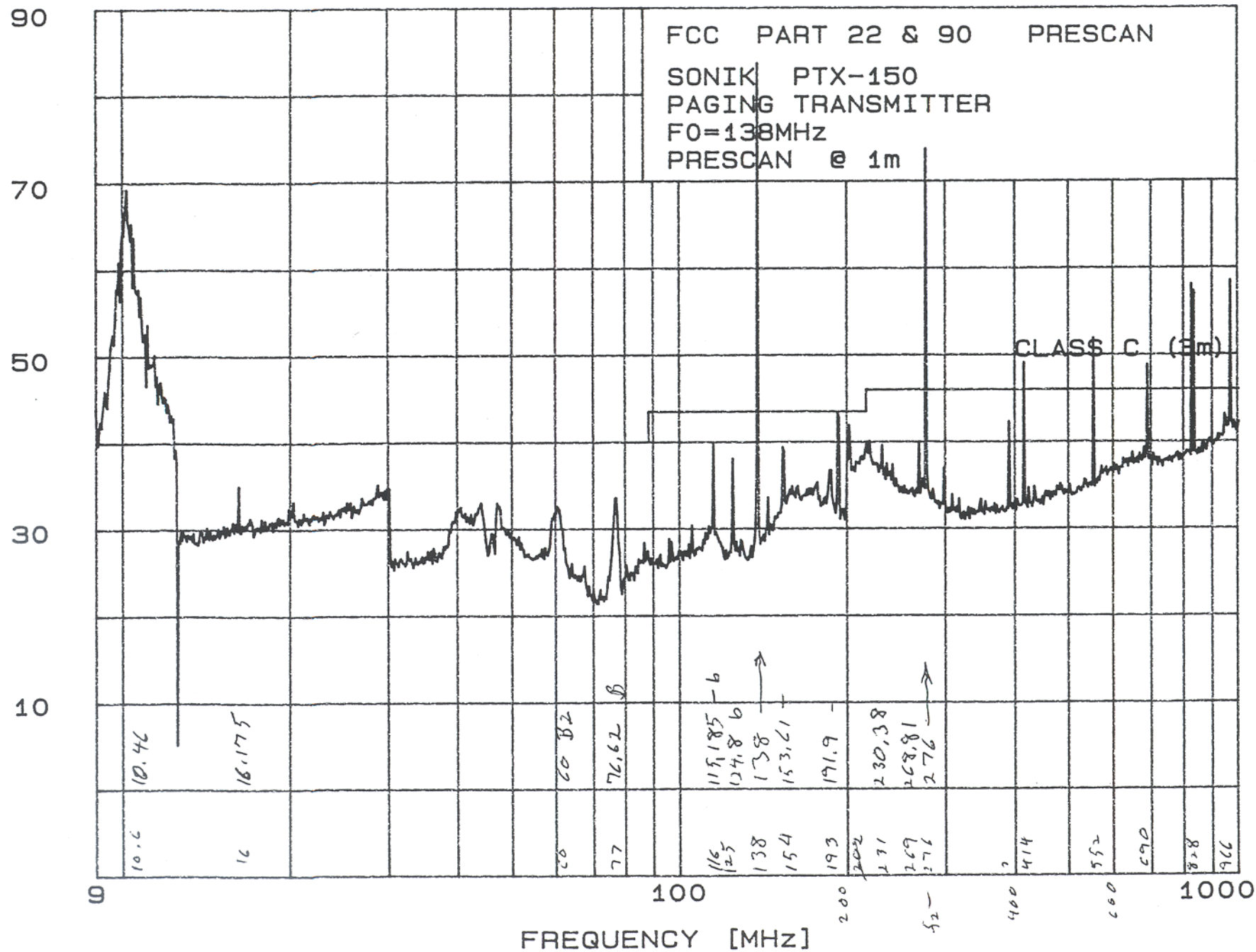
22 Feb 2000 09:39:42

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

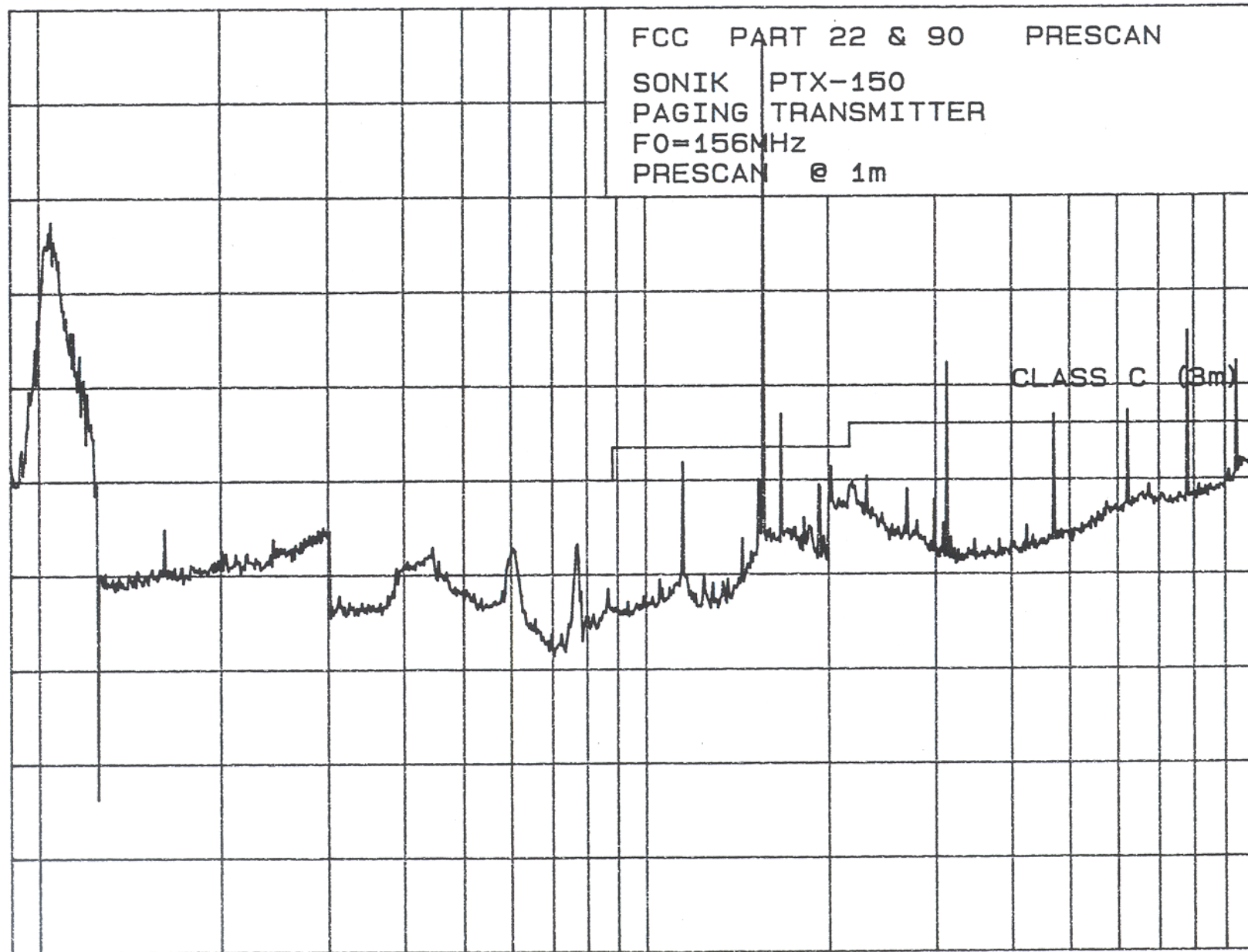
CLASS C (3m)

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

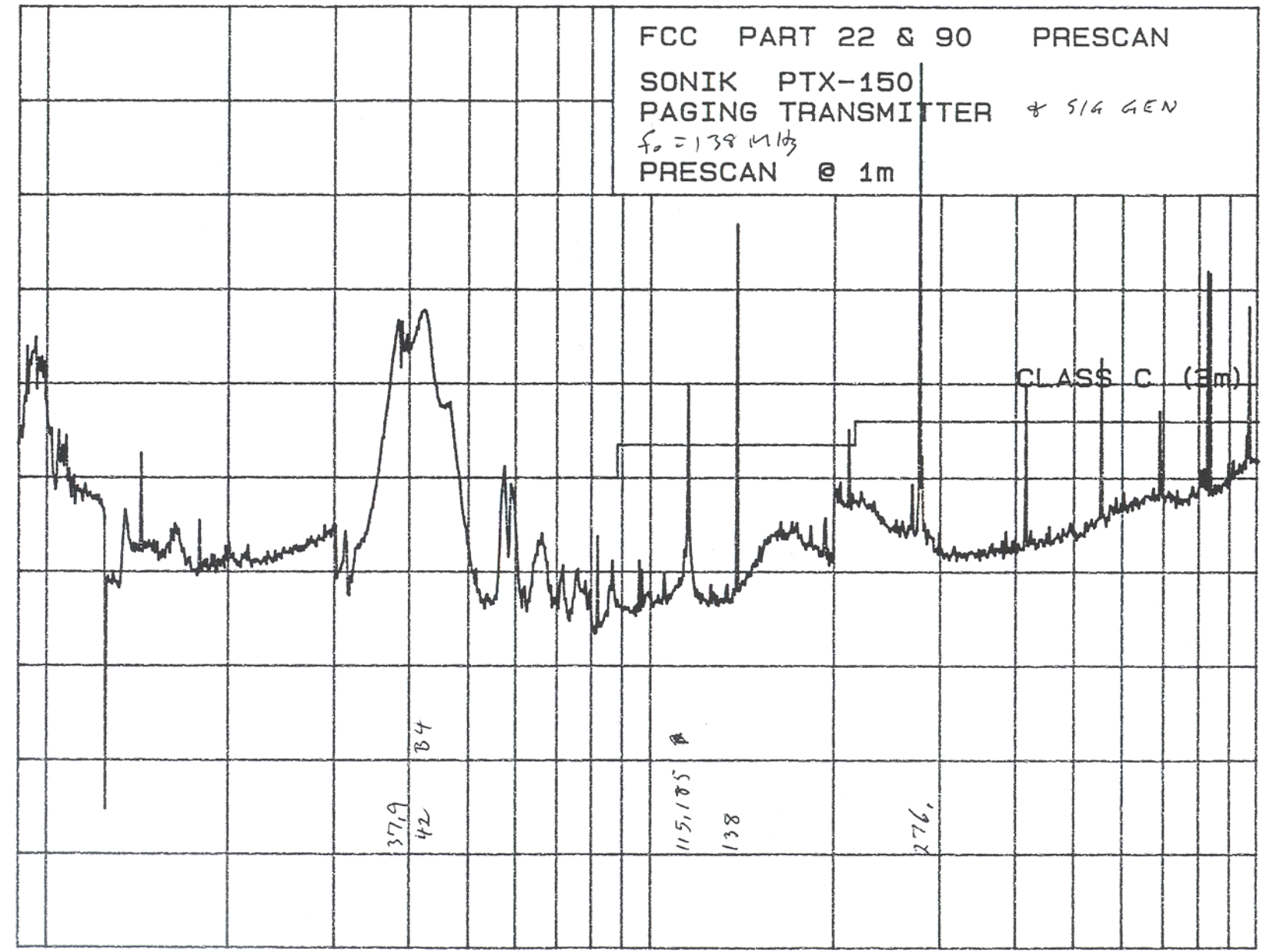
70

50

30

10

CLASS C (3m)



9

100

1000

FREQUENCY [MHz]