

APPENDIX D

DATA SHEETS



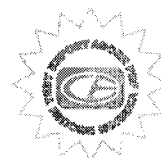


**COMPATIBLE
ELECTRONICS**

FCC ID'S: AMWUC650, AJXSG1000, AAO4301119
Report Number: B90603D1



***CONDUCTED EMISSIONS
DATA SHEETS FOR THE BASE***



114 OLINDA DRIVE, BREA, CALIFORNIA 92823 PHONE: (714) 579-0500 FAX: (714) 579-1850

**COMPATIBLE
ELECTRONICS**

6/01/1999

13:11:38

UNIDEN CORPORATION

2.4 GHz SPREAD SPEC. PHONE

MODEL: EXR2460

FCC B - BLACK LEAD

TEST ENGINEER : *Kyle Fujimoto*
KYLE FUJIMOTO-----
20 highest peaks above -50.00 dB of CLASS B limit line

Peak criteria : 0.50 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.567	38.87	48.00	-9.13
2	0.470	38.77	48.00	-9.23
3	0.478	38.37	48.00	-9.63
4	0.460	37.97	48.00	-10.03
5	0.489	37.77	48.00	-10.23
6	0.549	37.67	48.00	-10.33
7	0.539	37.67	48.00	-10.33
8	0.504	37.27	48.00	-10.73
9	0.454	37.27	48.00	-10.73
10	0.691	37.17	48.00	-10.83
11	0.524	37.17	48.00	-10.83
12	0.466	37.17	48.00	-10.83
13	0.635	36.97	48.00	-11.03
14	0.703	36.77	48.00	-11.23
15	0.560	36.77	48.00	-11.23
16	0.482	36.77	48.00	-11.23
17	0.530	36.67	48.00	-11.33
18	0.652	36.47	48.00	-11.53
19	0.535	36.37	48.00	-11.63
20	0.584	36.07	48.00	-11.93

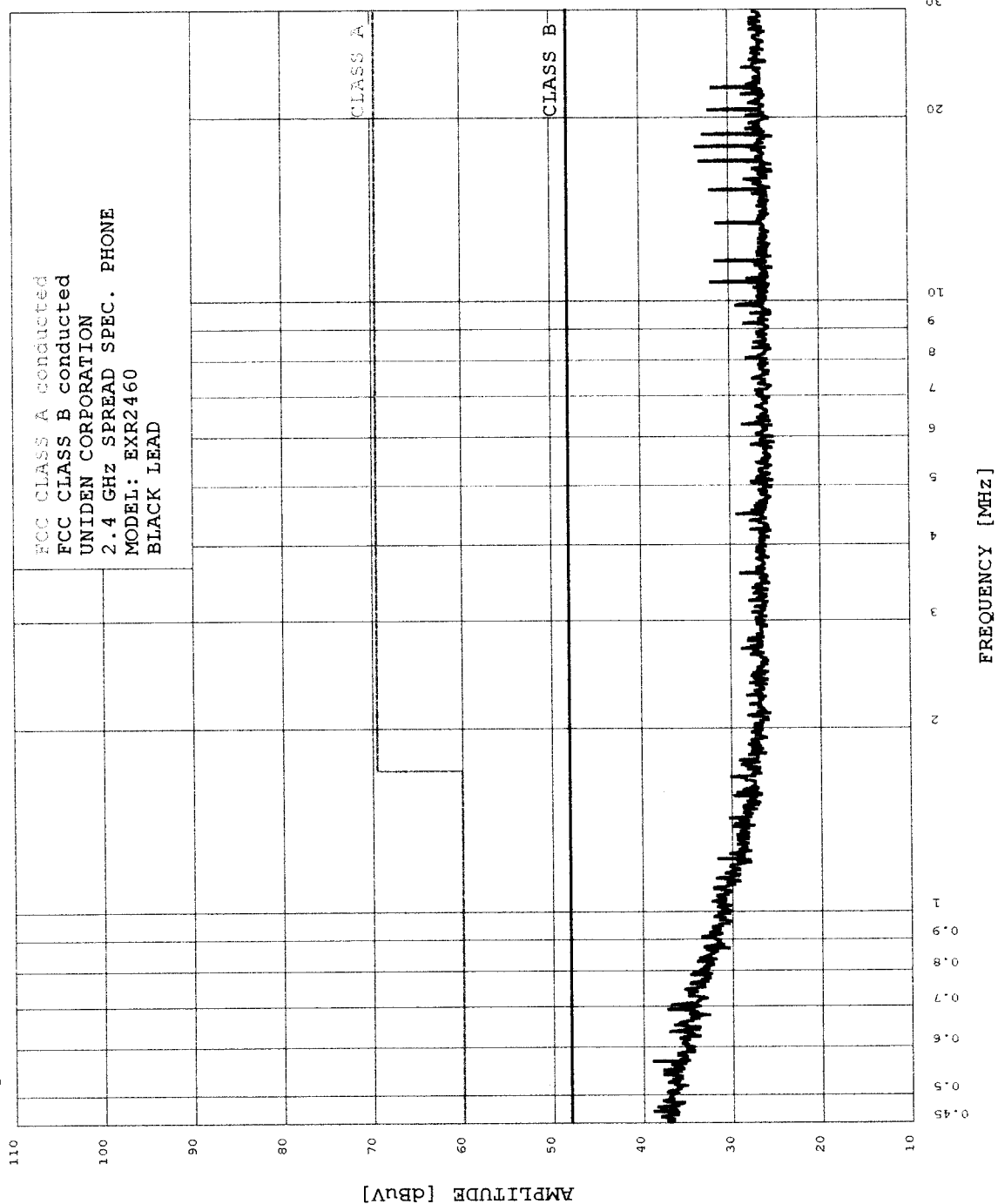


**COMPATIBLE
ELECTRONICS**

FCC ID'S: AMWUC650, AJXSG1000, AAO4301119

6/01/1999 13:11:38

EMISSION LEVEL [dBuV] PEAK
Graph for Peak



**COMPATIBLE
ELECTRONICS**

6/01/1999

13:34:09

UNIDEN CORPORATION

2.4 GHz SPREAD SPEC. PHONE

MODEL: EXR2460

FCC B - WHITE LEAD

TEST ENGINEER : Kyle Fujimoto
KYLE FUJIMOTO-----
20 highest peaks above -50.00 dB of CLASS B limit line

Peak criteria : 0.50 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.657	33.58	48.00	-14.42
2	20.576	31.70	48.00	-16.30
3	16.956	31.54	48.00	-16.46
4	18.759	31.44	48.00	-16.56
5	15.198	31.15	48.00	-16.85
6	22.378	30.98	48.00	-17.02
7	10.729	30.89	48.00	-17.11
8	17.905	30.69	48.00	-17.31
9	13.406	30.22	48.00	-17.78
10	11.621	29.90	48.00	-18.10
11	9.864	29.08	48.00	-18.92
12	15.074	28.74	48.00	-19.26
13	8.065	28.38	48.00	-19.62
14	24.135	28.35	48.00	-19.65
15	4.480	28.18	48.00	-19.82
16	17.686	28.18	48.00	-19.82
17	6.847	27.88	48.00	-20.12
18	3.585	27.78	48.00	-20.22
19	25.916	27.76	48.00	-20.24
20	3.851	27.68	48.00	-20.32



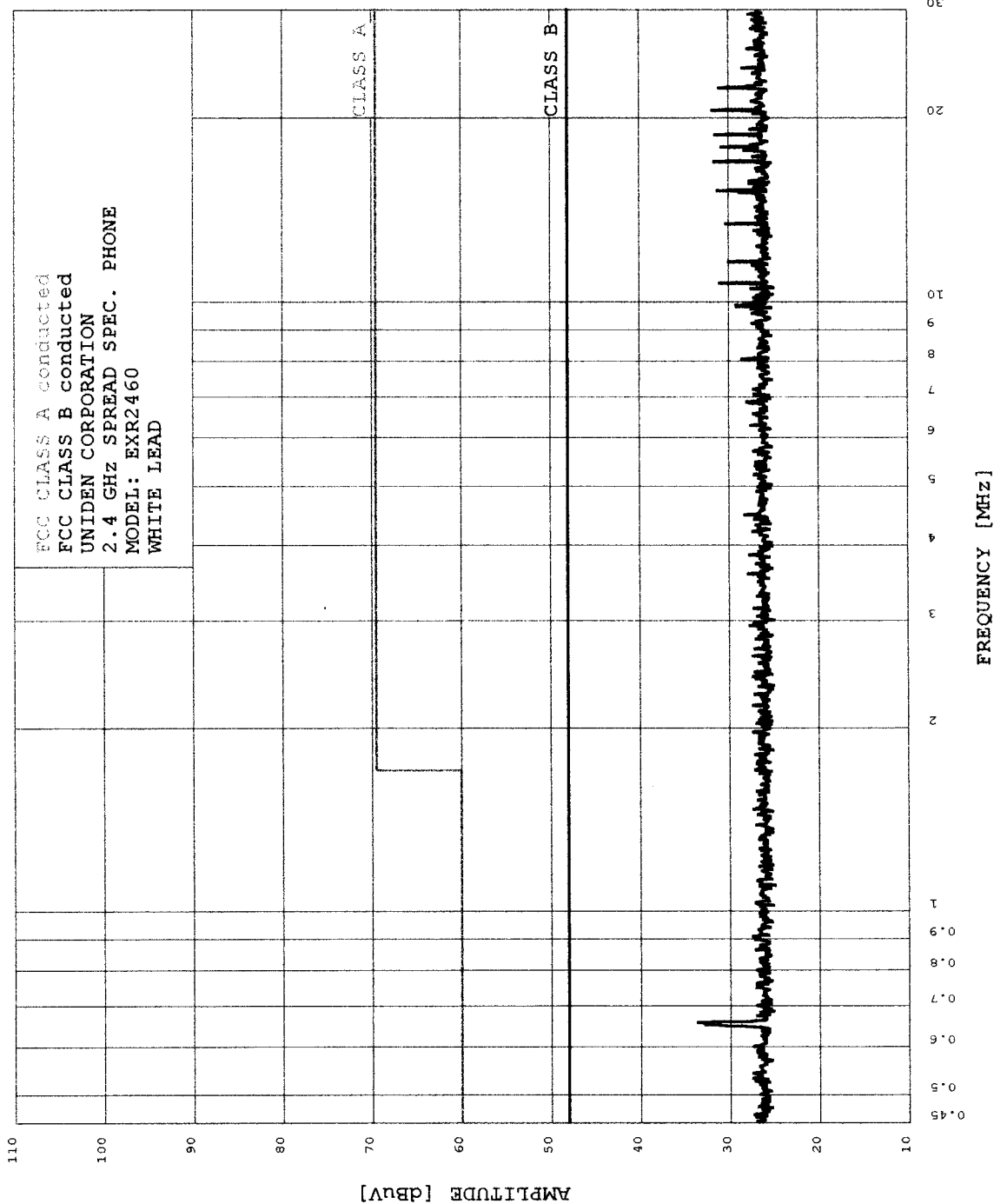
**COMPATIBLE
ELECTRONICS**

FCC ID'S: AMWUC650, AJXSG1000, AAO4301119

EMISSION LEVEL [dBuV] PEAK
Graph for Peak

6/01/1999

13:34:09





**COMPATIBLE
ELECTRONICS**

FCC ID'S: AMWUC650, AJXSG1000, AAO4301119
Report Number: B90603D1



***RADIATED EMISSIONS
DATA SHEETS FOR THE BASE***



114 OLINDA DRIVE, BREA, CALIFORNIA 92823 PHONE: (714) 579-0500 FAX: (714) 579-1850

FCC ID'S: AMWUC650, AJXSG1000, AAO4301119

Page: 1 of 3

Test location: Compatible Electronics

Customer : UNIDEN CORPORATION

Date : 6/ 2/1999

Manufacturer : UNIDEN CORPORATION

Time : 14.27

EUT name : 2.4 GHZ SPREAD SPEC. CORD. PHONE Model: EXR2460

Specification: Fcc_B Test distance: 3.0 mtrs Lab: D

Distance correction factor(20*log(test/spec)) : 0.00

Test Mode : BASE UNIT - SPURIOUS EMISSIONS

TEMPERATURE 63 DEGREES F.

RELATIVE HUMIDITY 56%

TESTED BY: Kyle Fujimoto

KYLE FUJIMOTO

Pol	Freq MHz	Rdng dBuV	Cable loss dB	Ant factor dB	Amp gain dB	Cor'd rdg = R dBuV	limit = L dBuV/m	Delta R-L dB
1H	124.87	53.40	1.40	10.99	38.80	26.99	43.50	-16.51
2H	134.47	59.20	1.48	11.57	38.69	33.56	43.50	-9.94
3H	144.07	61.30	1.55	12.14	38.57	36.43	43.50	-7.07
4H	153.67	61.60	1.63	12.85	38.49	37.60	43.50	-5.90
5H	163.27	51.20	1.71	13.77	38.45	28.23	43.50	-15.27
6H	172.87	54.20	1.78	14.70	38.41	32.27	43.50	-11.23
7H	182.47	42.30	1.83	15.02	38.52	20.63	43.50	-22.87
8H	307.31	56.10	2.41	16.37	38.51	36.37	46.00	-9.63
9H	316.91	50.10	2.43	16.47	38.53	30.47	46.00	-15.53
10H	326.51	48.40	2.45	16.57	38.55	28.87	46.00	-17.13
11H	336.11	55.20	2.47	16.66	38.57	35.76	46.00	-10.24
12H	345.71	48.40	2.49	16.76	38.59	29.06	46.00	-16.94
13H	355.31	51.90	2.53	16.62	38.56	32.49	46.00	-13.51
14H	364.91	58.40	2.59	16.29	38.48	38.80	46.00	-7.20
15H	384.07	57.40	2.70	15.64	38.33	37.42	46.00	-8.58
16H	393.67	50.80	2.76	15.32	38.25	30.63	46.00	-15.37
17H	403.27	54.20	2.80	15.36	38.17	34.18	46.00	-11.82
18H	412.87	46.00	2.80	16.10	38.10	26.81	46.00	-19.19
19H	422.47	50.20	2.80	16.85	38.02	31.83	46.00	-14.17
20H	624.07	47.00	3.60	20.08	38.21	32.47	46.00	-13.53
21H	892.87	36.00	4.91	20.66	37.41	24.16	46.00	-21.84

FCC ID'S: AMWUC650, AJXSG1000, AAO4301119

Page: 2 of 3

Test location: Compatible Electronics
 Customer : UNIDEN CORPORATION Date : 6/ 2/1999
 Manufacturer : UNIDEN CORPORATION Time : 14.43
 EUT name : 2.4 GHZ SPREAD SPEC. CORD. PHONE Model: EXR2460
 Specification: Fcc_B Test distance: 3.0 mtrs Lab: D
 Distance correction factor($20 \cdot \log(\text{test}/\text{spec})$) : 0.00
 Test Mode : BASE UNIT - SPURIOUS EMISSIONS
 TEMPERATURE 63 DEGREES F.
 RELATIVE HUMIDITY 56%
 TESTED BY: Kyle Fujimoto
 KYLE FUJIMOTO

Pol	Freq MHz	Rdng dBuV	Cable loss dB	Ant factor dB	Amp gain dB	Cor'd rdg = R dBuV	limit = L dBuV/m	Delta R-L dB
1V	144.07	60.10	1.55	12.14	38.57	35.23	43.50	-8.27
2V	153.67	60.80	1.63	12.85	38.49	36.80	43.50	-6.70
3V	163.29	54.40	1.71	13.78	38.45	31.44	43.50	-12.06
4V	172.89	54.70	1.78	14.70	38.41	32.77	43.50	-10.73
5V	235.29	39.50	1.96	17.22	38.34	20.35	46.00	-25.65
6V	52.89	54.20	1.03	10.87	38.60	27.50	40.00	-12.50
7V	134.49	56.00	1.48	11.57	38.69	30.36	43.50	-13.14
8V	288.09	45.80	2.45	20.46	38.45	30.25	46.00	-15.75
9V	307.29	46.90	2.41	16.37	38.51	27.17	46.00	-18.83
10V	364.90	48.40	2.59	16.29	38.48	28.80	46.00	-17.20
11V	384.11	57.70	2.70	15.64	38.33	37.72	46.00	-8.28
12V	403.31	54.50	2.80	15.36	38.17	34.48	46.00	-11.52
13V	547.30	44.00	3.38	17.85	37.92	27.31	46.00	-18.69
14V	816.11	36.50	4.20	20.67	37.50	23.87	46.00	-22.13

Test location: Compatible Electronics
Customer : UNIDEN CORPORATION Date : 6/ 2/1999
Manufacturer : UNIDEN CORPORATION Time : 14.51
EUT name : 2.4 GHZ SPREAD SPEC. CORD. PHONE Model: EXR2460
Specification: Fcc_B Test distance: 3.0 mtrs Lab: D
Distance correction factor($20 \cdot \log(\text{test}/\text{spec})$) : 0.00
Test Mode : BASE UNIT - SPURIOUS EMISSIONS
TEMPERATURE 63 DEGREES F.
RELATIVE HUMIDITY 56%
TESTED BY: Kyle Fujimoto
KYLE FUJIMOTO

NO EMISSIONS FOUND FOUND 10 kHz TO 30 MHz IN EITHER
POLARIZATION FOR THE BASE UNIT



***6 dB BANDWIDTH
DATA SHEETS FOR THE BASE***

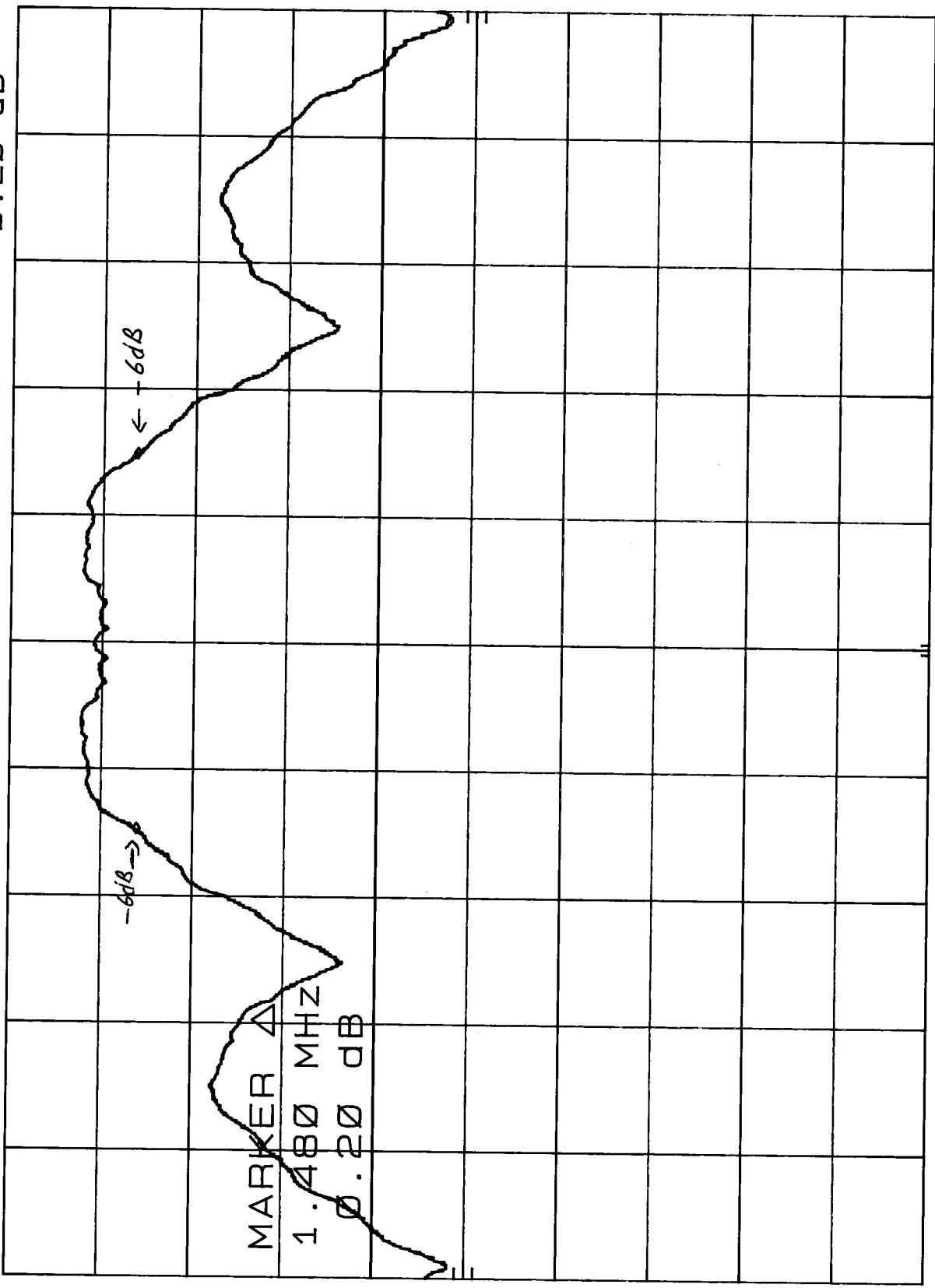


114 OLINDA DRIVE, BREA, CALIFORNIA 92823 PHONE: (714) 579-0500 FAX: (714) 579-1850

FCC ID'S: AMWUC650, AJXSG1000, AAO4301119

6-1-99

h_p -6 dB BANDWIDTH OF BASE - CH. 10 MKR Δ 1.480 MHz
REF 117.0 dBμV ATTEN 20 dB 0.20 dB



10 dB/

DL
77.0
dBμV

CORR'D

CENTER 2.464 40 GHz RES BW 100 KHZ SPAN 5.00 MHz
VBW 1 MHz SWP 20.0 msec

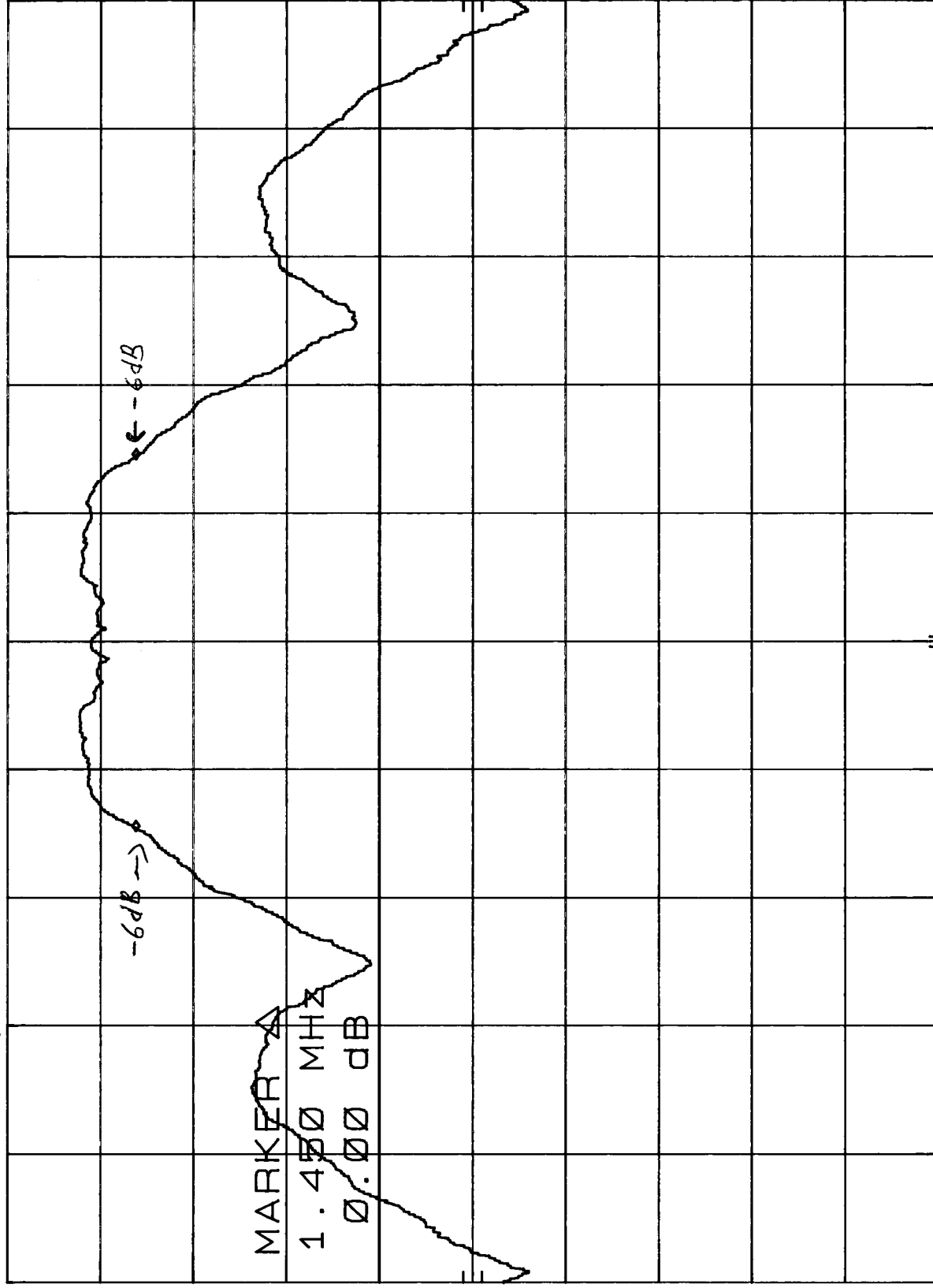
66-1-9

MKR Δ 1.450 MHz

0.00 dB

47

10 dB/



DL
77.0
dB μ V

CORR.D

CENTER 2.454 19 GHZ
RES BW 100

VBW 1 MHz

SPAN 5.00 MHz
SWP 20.0 msec

6-1-99

-6 dB BANDWIDTH OF BASE - CH. 20

REF 117.0 dBμV ATTEN 20 dB

MKR Δ 1.485 MHz

0.00 dB

HP

10 dB/

MARKER Δ

1.485 MHz

0.00 dB

DL

77.0

dBμV

CORR'D

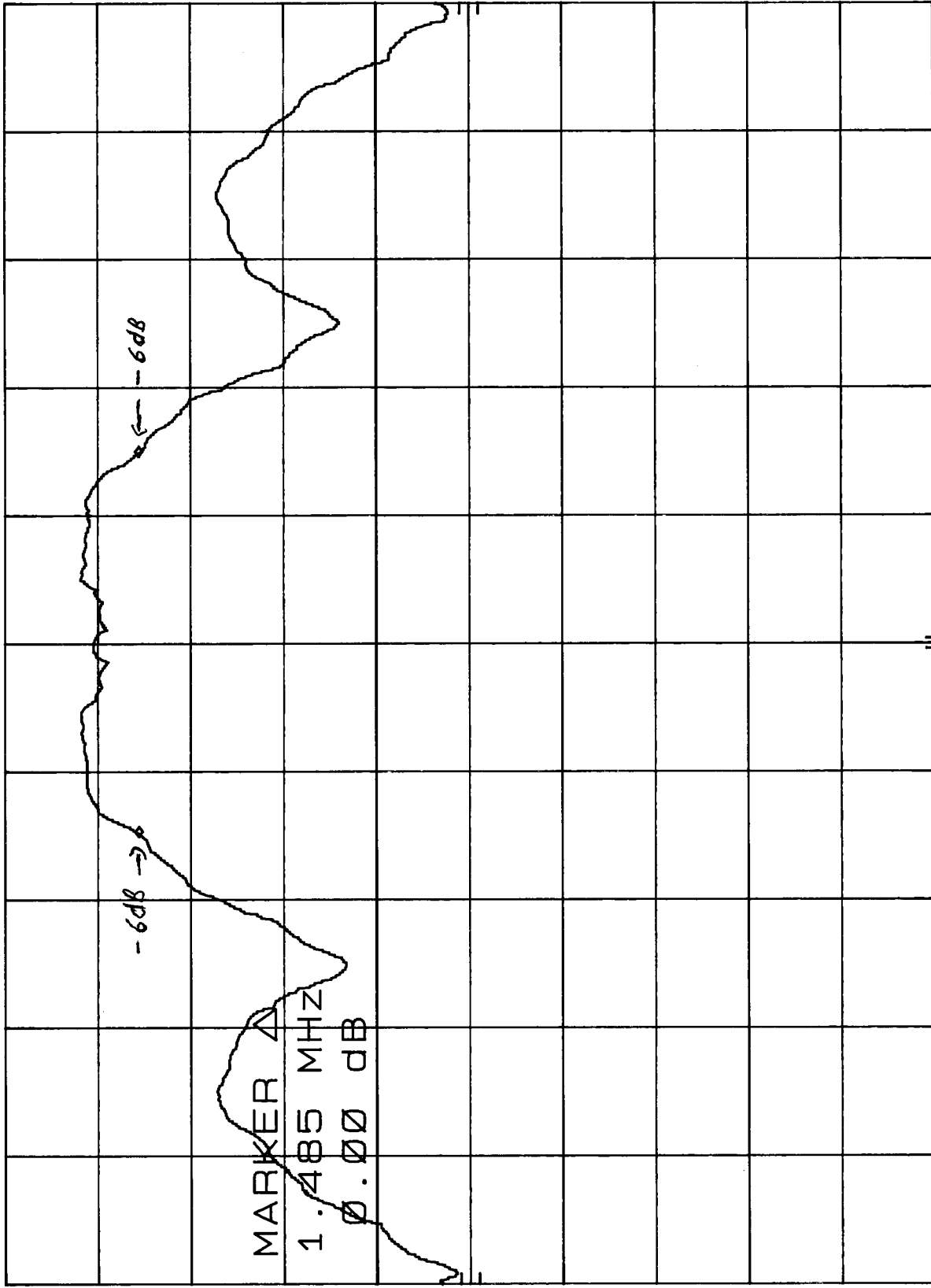
CENTER 2.475 80 GHz

RES BW 100 kHz

VBW 1 MHz

SPAN 5.00 MHz

SWP 20.0 msec





***PEAK OUTPUT POWER
DATA SHEETS FOR THE BASE***



114 OLINDA DRIVE, BREA, CALIFORNIA 92823 PHONE: (714) 579-0500 FAX: (714) 579-1850

FCC ID'S: AMWUC650, AJXSG1000, AAO4301119

6-1-99

POWER OUTPUT OF BASE - CH. 1

REF 10.0 dBm ATTN 20 dB

MKR 2.454 08 GHz
9.50 dBm

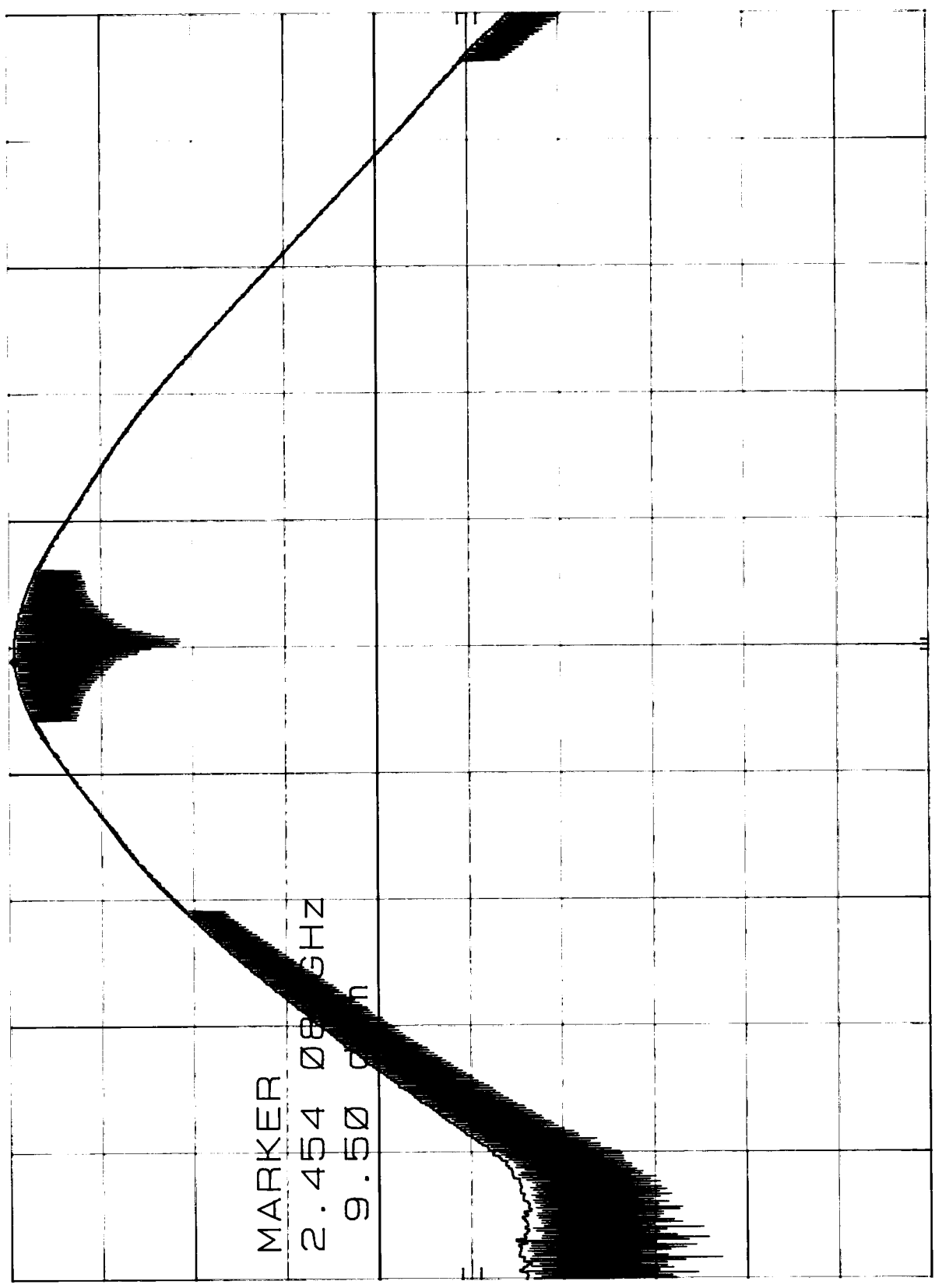
hp

10 dB/

MARKER
2.454 08 GHz
9.50 dBm

DL
-30.0
dBm

CORR'D



CENTER 2.454 3 GHz

RES BW 3 MHz

VBW 1 MHz

SPAN 20.0 MHz

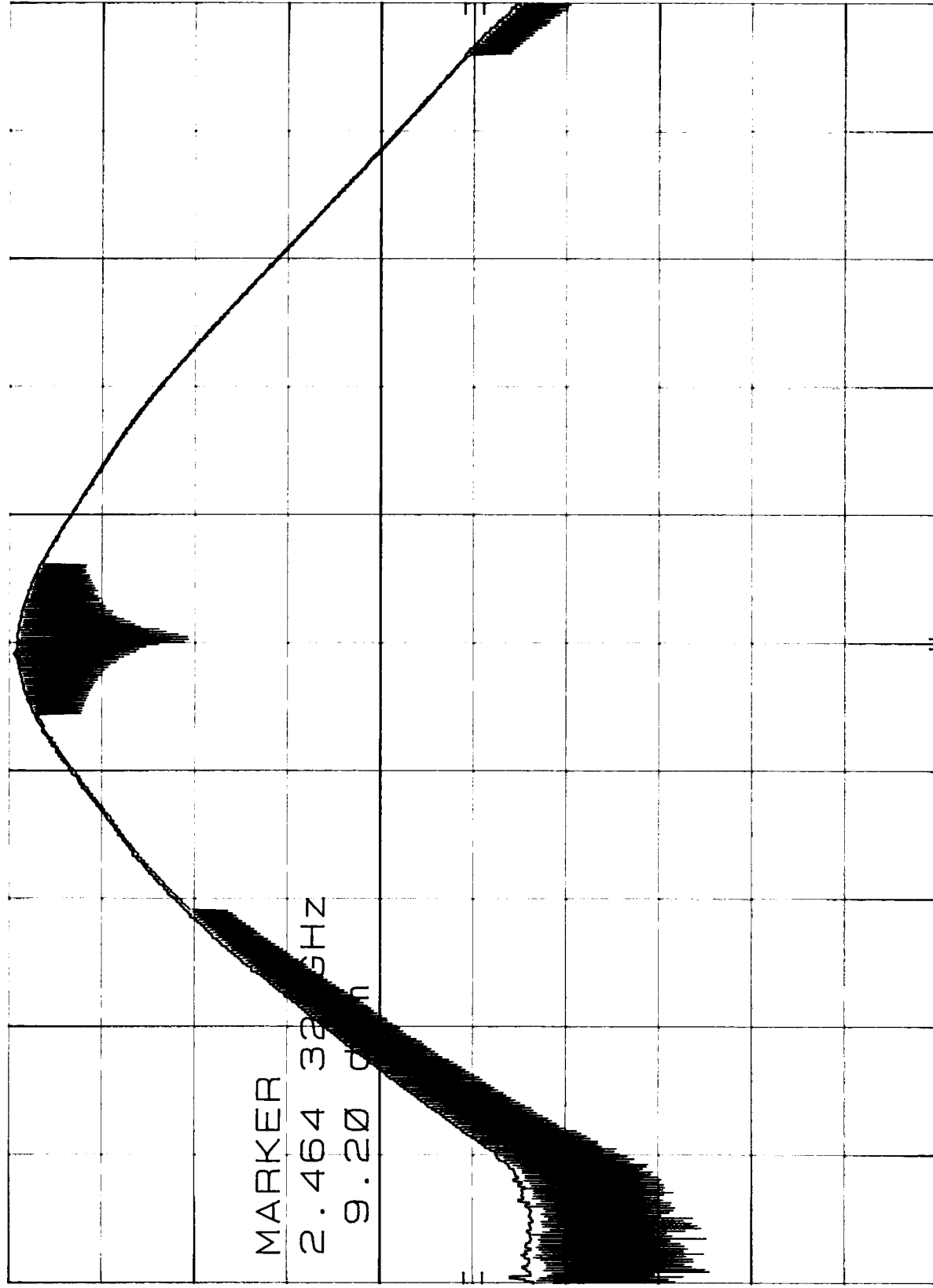
SWP 20.0 msec

FCC ID'S: AMWUC650, AJXSG1000, AAO4301119

66-1-99

POWER OUTPUT OF BASE - CH. 10

REF 10.0 dBm ATTEN 20 dB

MKR 2.464 32 GHz
9.20 dBm

CENTER 2.464 5 GHz

RES BW 3 MHZ

VBW 1 MHz

SPAN 20.0 MHz
SWP 20.0 msec

FCC ID'S: AMWUC650, AJXSG1000, AAO4301119

6-1-99

POWER OUTPUT OF BASE - CH. 20

REF 10.0 dBm

ATTEN 20 dB

MKR 2.475 88 GHz

9.00 dBm

hp

10 dB/

MARKER

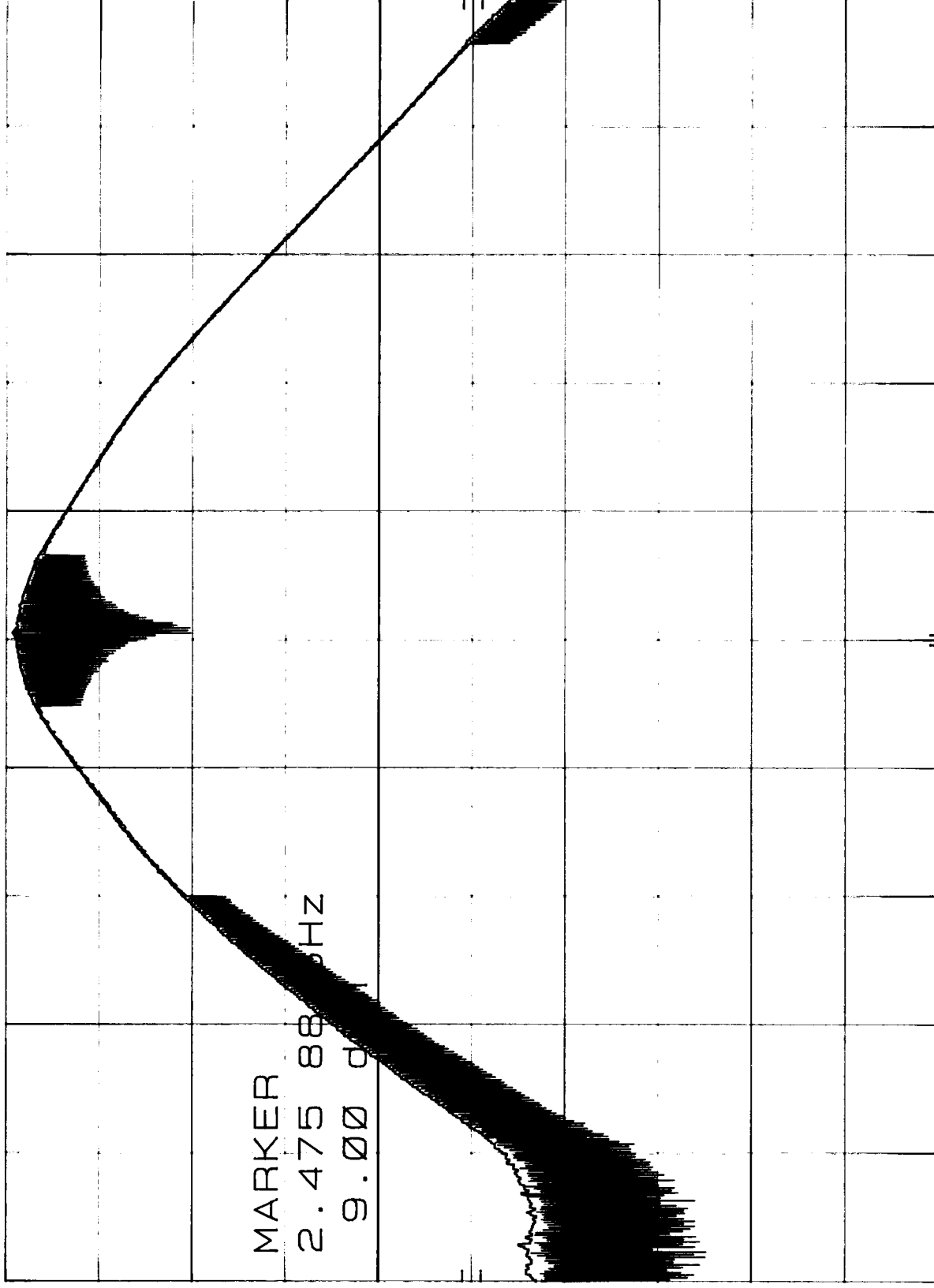
2.475 88 GHz

DL

-30.0

dBm

CORR'D



CENTER 2.475 8 GHz

RES BW 3 MHz

VBW 1 MHz

SPAN 20.0 MHz

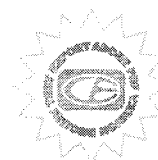
SWP 20.0 msec



**COMPATIBLE
ELECTRONICS**

FCC ID'S: AMWUC650, AJXSG1000, AAO4301119
Report Number: B90603D1

***SPECTRAL DENSITY OUTPUT
DATA SHEETS FOR THE BASE***



114 OLINDA DRIVE, BREA, CALIFORNIA 92823 PHONE: (714) 579-0500 FAX: (714) 579-1850

6-1-99

SPECTRAL DENSITY OUTPUT OF BASE - CH. 1 MKR 2.453 852 GHz
 REF 10.0 dBm ATTEN 20 dB -4.10 dBm

hp

10 dB/

MARKER

2.453 852 GHz
 -4.10 dBm

DL
 8.0
 dBm

CORR'D

CENTER 2.454 21 GHz RES BW 3 kHz
 SPAN 1.50 MHz SWP 500 sec
 VBW 10 kHz

FCC ID'S: AMWUC650, AJXSG1000, AAO4301119

6-1-99

SPECTRAL DENSITY OUTPUT OF BASE - CH. 10 MKR 2.464 104 GHZ
REF 10.0 dBm ATTN 20 dB -4.30 dBm

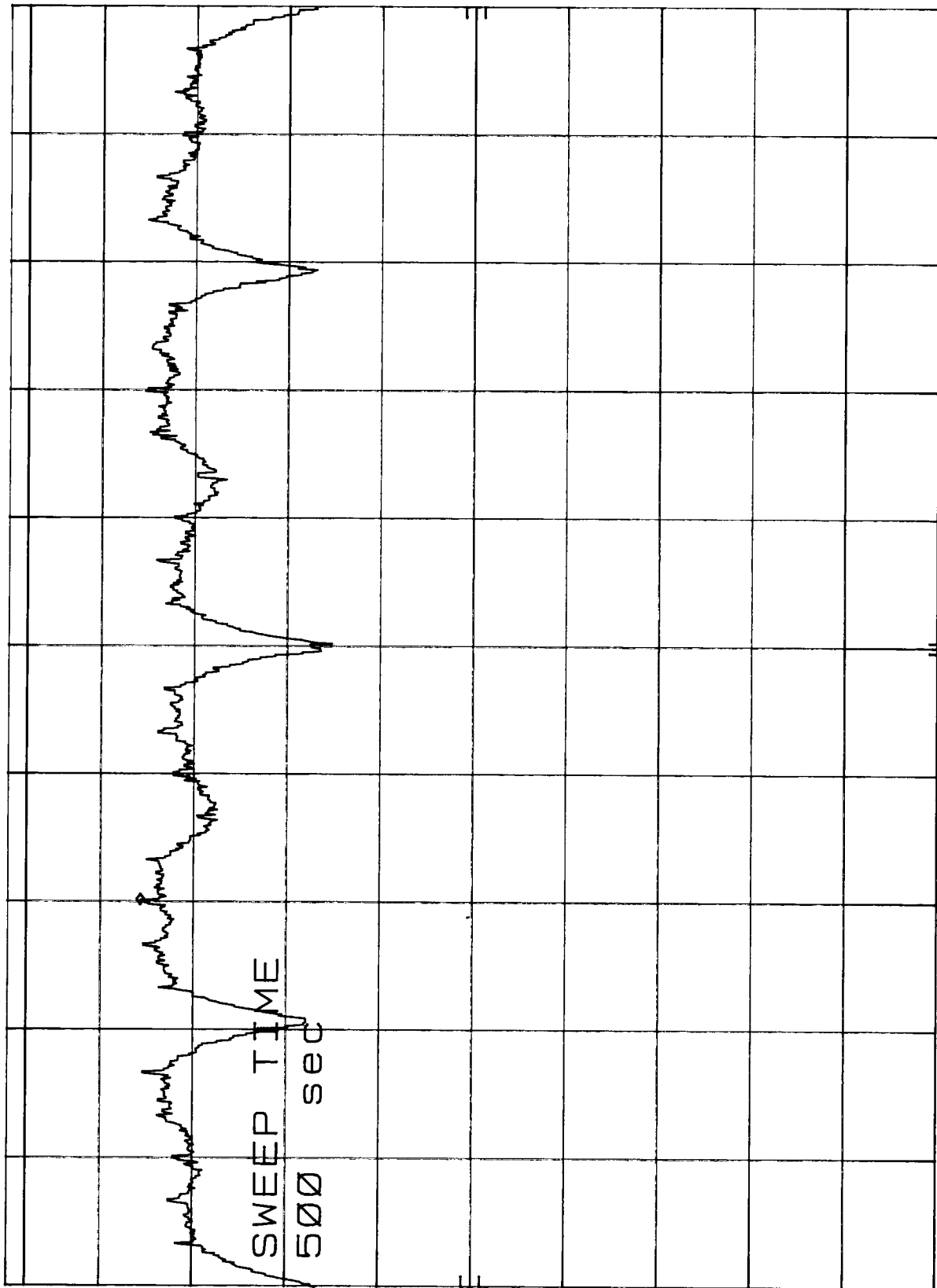
HP

10 dB/

SWEEP TIME
500 sec

DL
8.0
dBm

CORR'D



CENTER 2.464 40 GHZ
RES BW 3 KHZ

VBW 10 KHZ

SPAN 1.50 MHz
SWP 500 sec

SPECTRAL DENSITY OUTPUT OF BASE - CH. 20 MKR 2.475 503 GHz
 REF 10.0 dBm ATTN 20 dB -4.40 dBm

hp

10 dB/

MARKER

2.475 503 GHz

-4.40 dBm

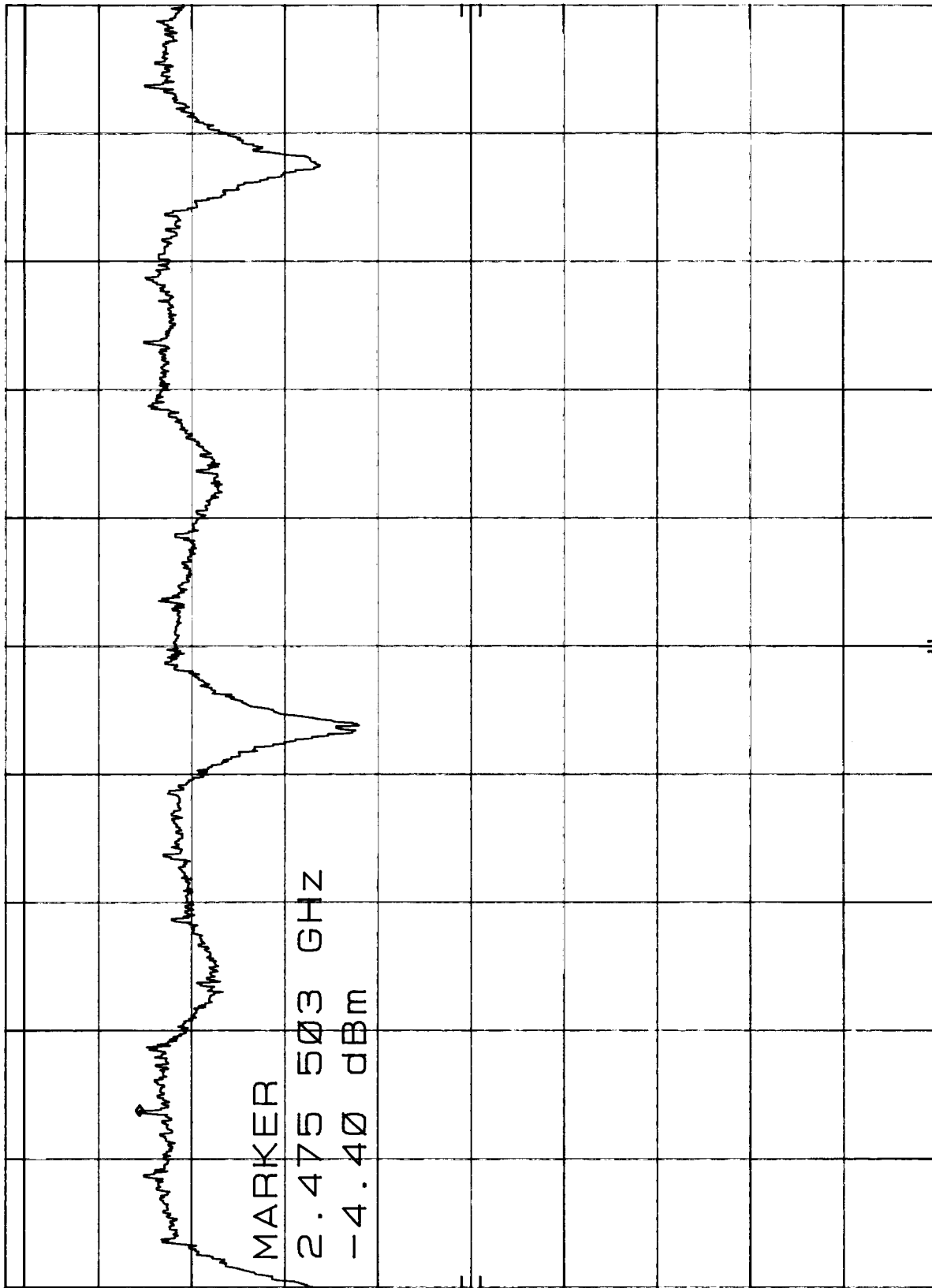
DL
 8.0
 dBm

CORR'D

CENTER 2.475 86 GHz
 RES BW 3 kHz

SPAN 1.00 MHz
 SWP 500 sec

VBW 10 kHz



***RF ANTENNA CONDUCTED
DATA SHEETS FOR THE BASE***



114 OLINDA DRIVE, BREA, CALIFORNIA 92823 PHONE: (714) 579-0500 FAX: (714) 579-1850

FCC ID'S: AMWUC650, AJXSG1000, AAO4301119

RF ANT. COND. TEST OF BASE CH. 1 2-500MHZ MKR 224.1 MHZ
REF 10.0 dBm ATTEN 20 dB -63.00 dBm

HP

10 dB/

MARKER

224.1 MHZ
-63.00 dBm

DL
-18.9
dBm

CORR'D

START 2 MHZ RES BW 100 KHZ VBW 300 KHZ STOP 500 MHZ
SWP 149 msec

RF ANT. COND. TEST OF BASE CH. 1 500-1000MHZ MKR 975.0 MHZ
REF 10.0 dBm ATTEN 20 dB -63.40 dBm

hp

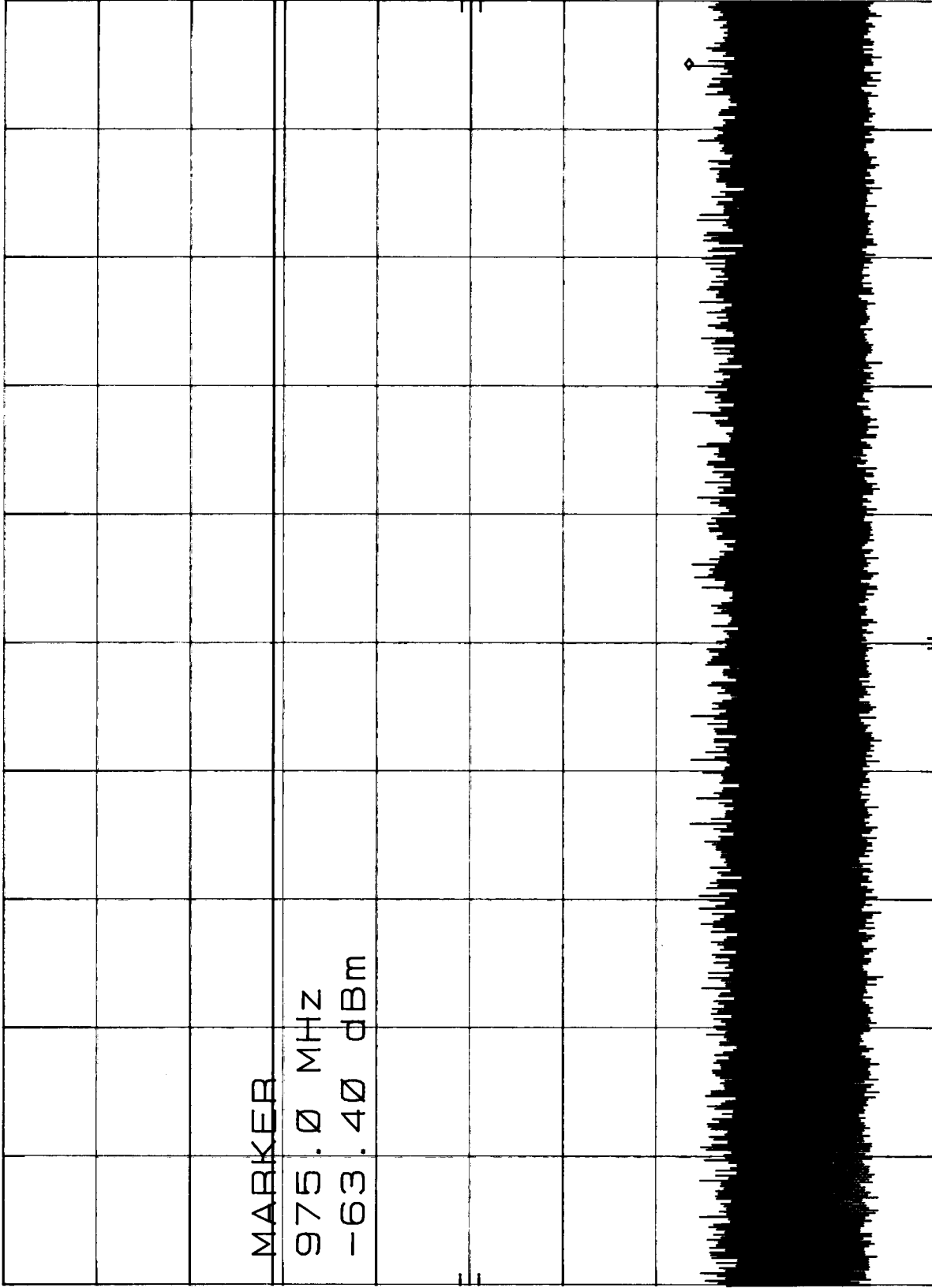
10 dB/

MARKER

975.0 MHZ
-63.40 dBm

DL
-18.9
dBm

CORR'D



START 500 MHZ RES BW 100 KHz STOP 1.000 GHZ SWP 150 msec
VBW 300 KHz

FCC ID'S: AMWUC650, AJXSG1000, AAO4301119

RF ANT. COND. TEST OF BASE CH.1 1-1.5GHZ MKR 1.220 0 GHZ
REF 10.0 dBm ATTEN 20 dB -62.90 dBm

hp

10 dB/

MARKER

1.220 0 GHZ
-62.90 dBm

DL
-18.9
dBm

CORR'D

START 1.000 GHZ RES BW 100 KHZ STOP 1.500 GHZ
VBW 300 KHZ SWP 150 msec

RF ANT. COND. TEST OF BASE CH. 1 1.5-2GHz MKR 1.849 0 GHz
 REF 10.0 dBm ATTN 20 dB -62.70 dBm

HP

10 dB/

START

1.500 GHz

DL
 -18.9
 dBm

CORR'D

START 1.500 GHz RES BW 100 KHz VBW 300 KHz STOP 2.000 GHz SWP 150 msec

FCC ID'S: AMWUC650, AJXSG1000, AAO4301119

RF ANT. COND. TEST OF BASE CH. 1 - 2-10GHZ MKR 2.768 GHZ
REF 10.0 dBm ATTEN 20 dB 1.10 dBm

hp

10 dB/

DISPLAY LINE

-18.9 dBm

DL
-18.9
dBm

CORR'D

START 2.00 GHZ
RES BW 100 KHZ

VBW 300 KHZ

STOP 10.00 GHZ
SWP 2.40 sec

6-1-99

RF ANT. COND. TEST OF BASE CH. 1 - 10-20 GHZ MKR 19.54 GHZ
 REF 10.0 dBm ATTEN 20 dB -49.70 dBm

hp

10 dB/

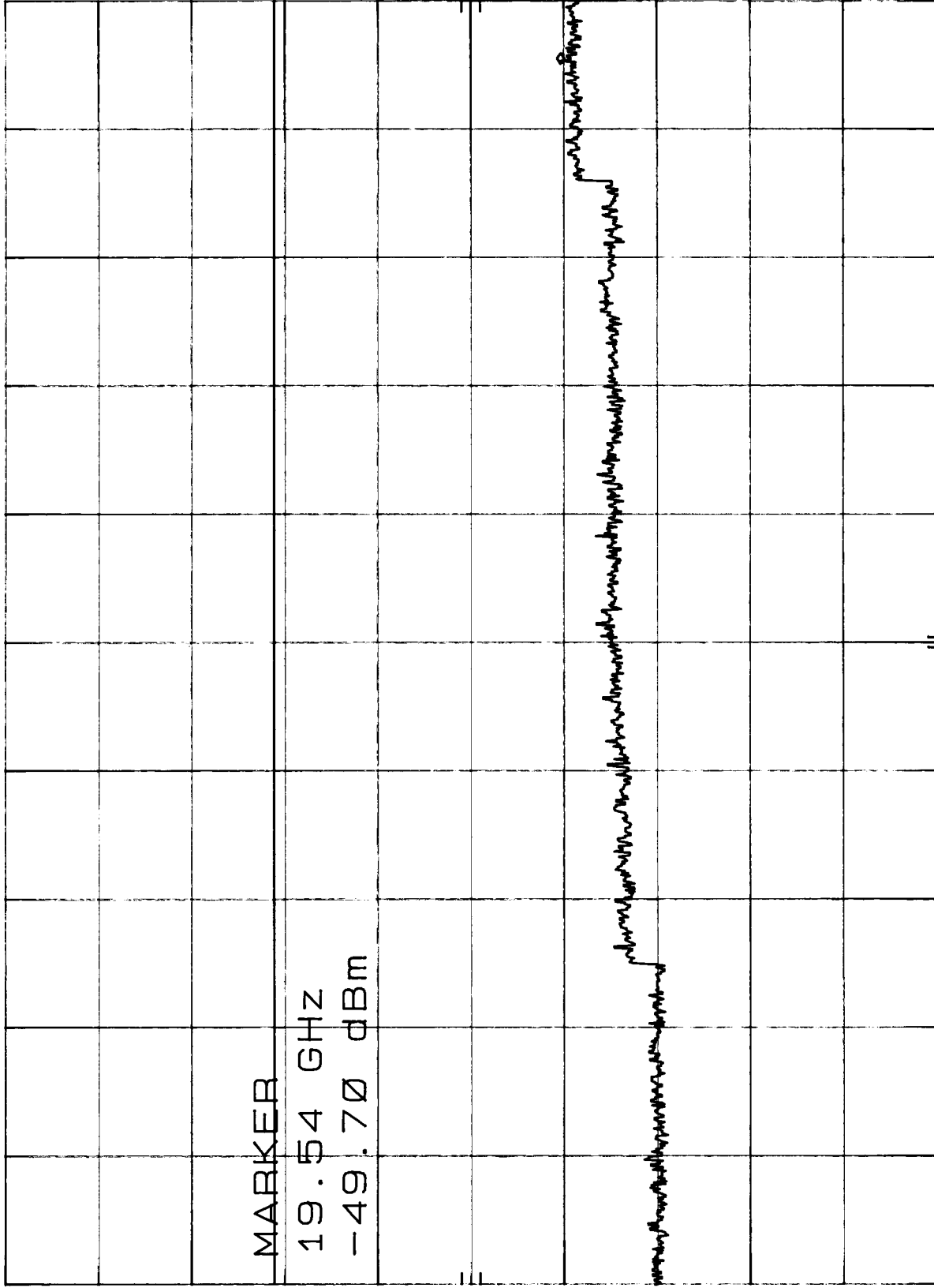
MARKER

19.54 GHZ

-49.70 dBm

DL
 -18.9
 dBm

CORR'D



START 10.0 GHZ RES BW 100 KHZ VBW 300 KHZ STOP 20.0 GHZ
 SWP 3.00 sec

FCC ID'S: AMWUC650, AJXSG1000, AAO4301119

6-1-99

RF ANT. COND TEST OF BASE CH. 1 20-26 GHZ MKR 23.000 GHZ
REF 0.0 dBm HARMONIC 6L -76.40 dBm

hp

10 dB/

CNVLOSS

22.0

dB

DL

-18.9

dBm

VIDEO BW

300 KHZ

START 20.00 GHZ

RES BW 100 KHZ

VBW 300 KHZ

STOP 26.00 GHZ

SWP 1.80 sec

RF ANT. COND. OF BASE CH. 10 2MHZ-2GHZ MKR 1.886 GHZ
REF 10.0 dBm ATTEN 20 dB -54.40 dBm

hp

10 dB/

MARKER

1.886 GHZ

DL
-17.6
dBm

-54.40 dBm

CORR'D



RF ANT. COND. OF BASE CH. 10 2MHZ-2GHZ MKR 1.886 GHZ
REF 10.0 dBm ATTEN 20 dB -54.40 dBm

START 2 MHZ RES BW 100 KHZ VBW 300 KHZ STOP 2.00 GHZ
SWP 599 msec

FCC ID'S: AMWUC650, AJXSG1000, AAO4301119

RF ANT. COND. TEST OF BASE CH. 10 - 2-10 GHZ MKR 2.456 GHZ
REF 10.0 dBm ATTEN 20 dB 2.30 dBm

HP

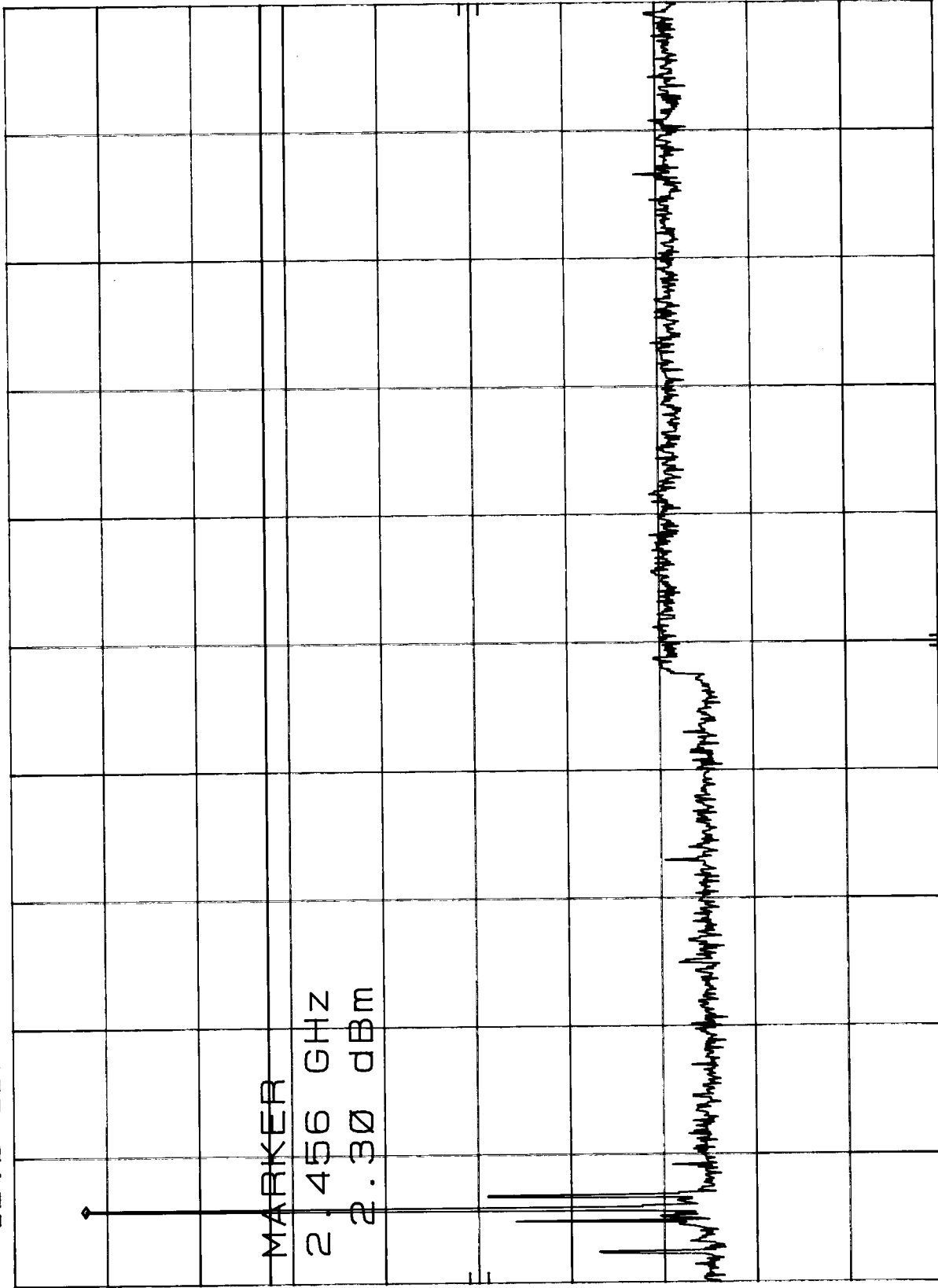
10 dB/

DL
-17.6
dBm

MARKER

2.456 GHZ
2.30 dBm

CORR'D



START 2.00 GHZ STOP 10.00 GHZ
RES BW 100 KHZ SWP 2.40 sec
VBW 300 KHZ

FCC ID'S: AMWUC650, AJXSG1000, AAO4301119

RF ANT. COND. TEST OF BASE CH. 10 - 10-20GHZ MKR 19.93 GHZ
REF 10.0 dBm ATTEN 20 dB -50.20 dBm

HP

10 dB/

MARKER

19.93 GHZ

DL
-17.6
dBm

-50.20 dBm

CORR'D

START 10.0 GHZ

RES BW 100 KHZ

VBW 300 KHZ

STOP 20.0 GHZ
SWP 3.00 sec

FCC ID'S: AMWUC650, AJXSG1000, AAO4301119

RF ANT. COND. TEST OF BASE CH.10 - 20-26GHZ MKR 22.904 GHZ
REF 0.0 dBm HARMONIC 8L -73.20 dBm

hp

10 dB/

CNVLOSS
22.0
dB

DL
-17.6
dBm

STOP

26.00 GHZ

Handwritten notes in the grid area, including "26.00 GHZ" and "26.00 GHZ".

START 20.00 GHZ RES BW 100 KHZ VBW 300 KHZ STOP 26.00 GHZ
SWP 1.80 sec

RF ANT. COND. TEST OF BASE CH.20 - 2MHZ-2GHZ MKR 1.904 GHZ
REF 10.0 dBm ATTEN 20 dB -56.30 dBm

hp

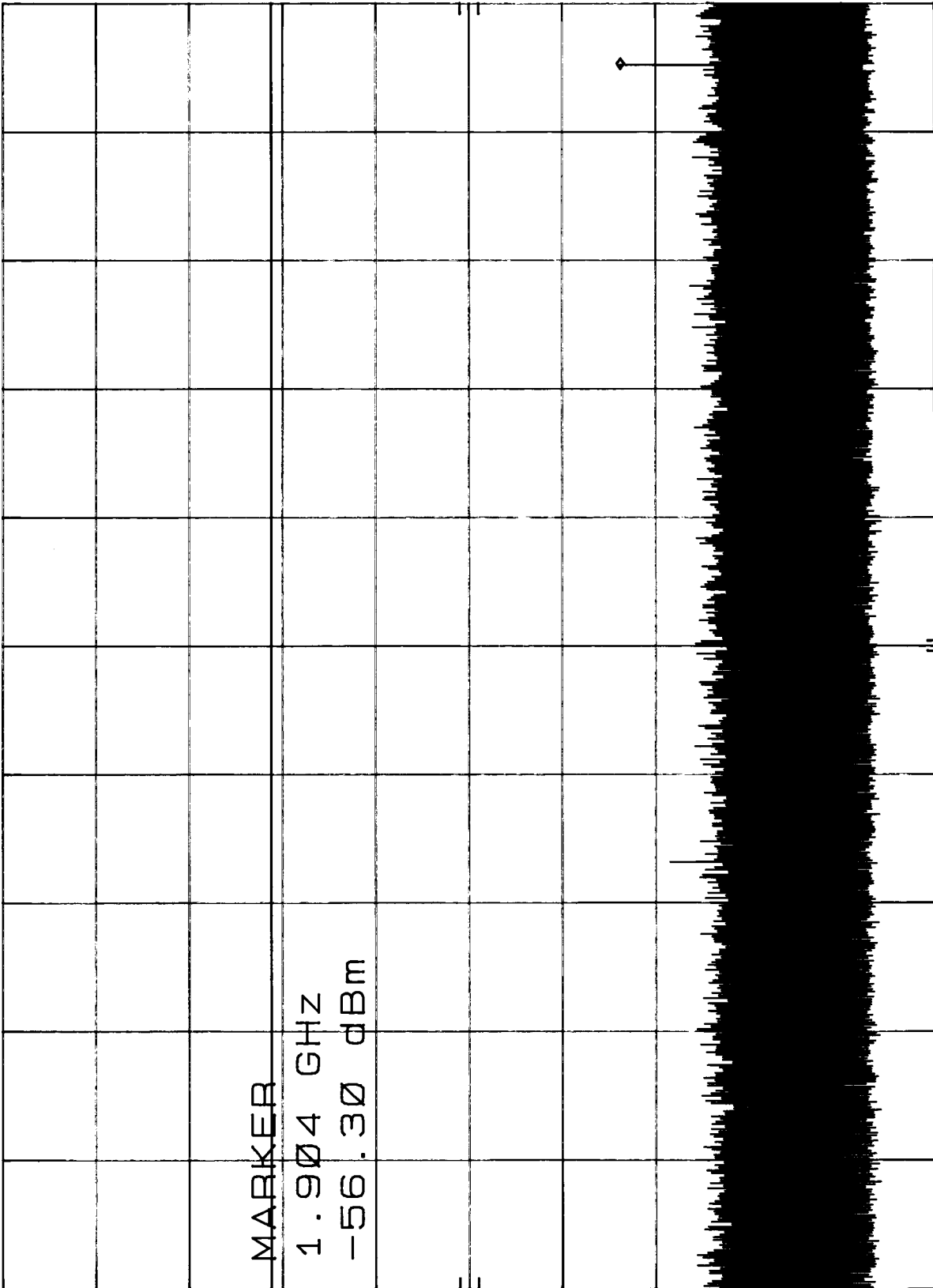
10 dB/

MARKER

1.904 GHZ
-56.30 dBm

DL
-18.8
dBm

CORR'D



START 2 MHz

RES BW 100 kHz

VBW 300 kHz

STOP 2.00 GHz
SWP 599 msec

RF ANT. COND. TEST OF BASE CH. 20 - 2-10GHZ MKR 2.472 GHz
REF 10.0 dBm ATTEN 20 dB 1.20 dBm

hp

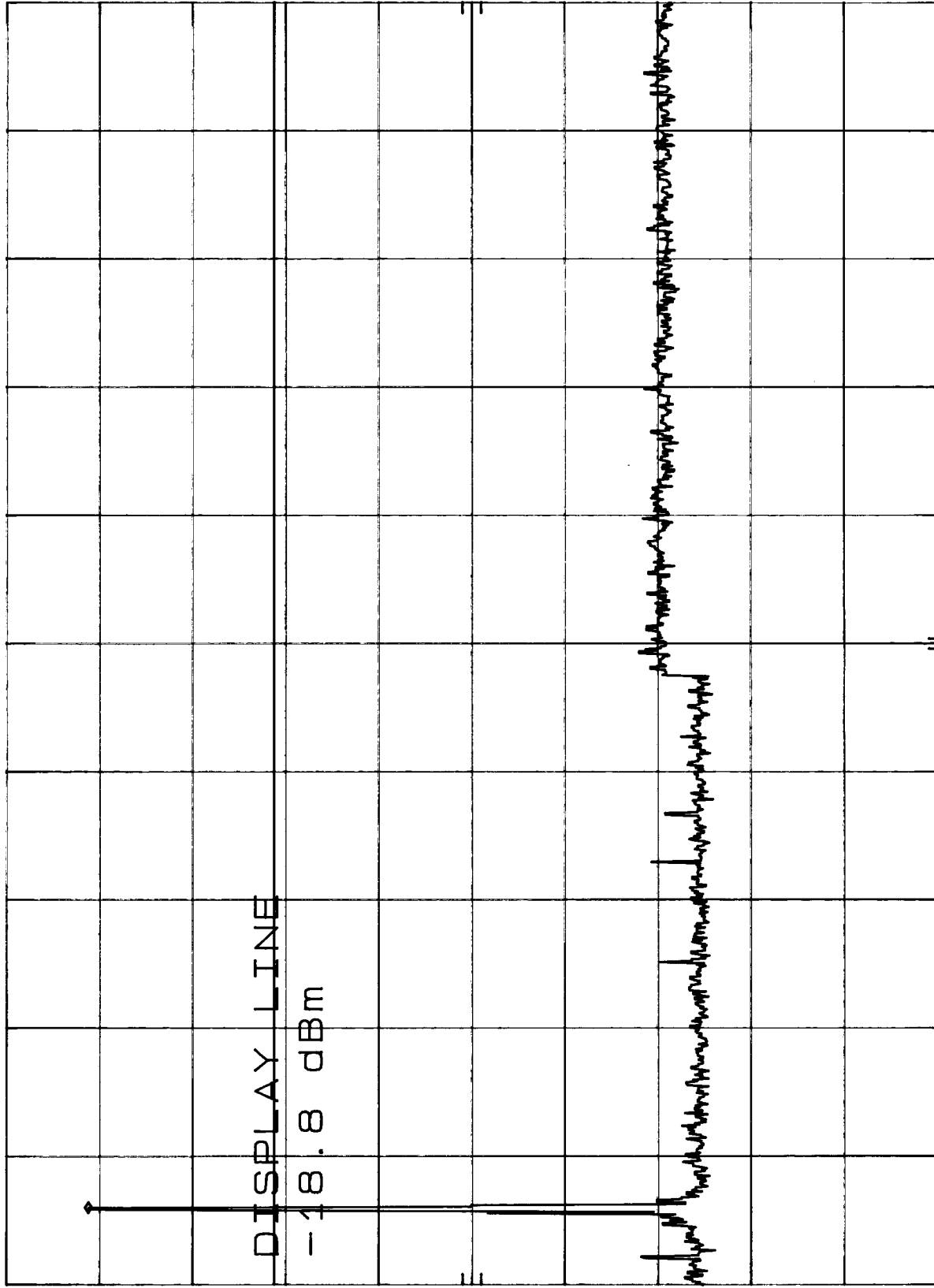
10 dB/

DISPLAY LINE

-18.8 dBm

DL
-18.8
dBm

CORR'D



START 2.00 GHz RES BW 100 KHz VBW 300 KHz STOP 10.00 GHz
SWP 2.40 sec

```
RF ANT. COND. TEST OF BASE CH. 20 - 10-20GHZ MKR 19.38 GHZ
REF 10.0 dBm ATTN 20 dB -50.10 dBm
```

74

10 dB/

MARKER

19.38 GHz
-50.10 dBm

DL
-18.8
dBm

CORR.D

START 10.0 GHz	STOP 20.0 GHz
RES BW 100 KHz	SWP 3.00 sec
	VBW 300 KHz

VBW 300 KHZ

STOP 20.0 GHz

SWP 3.00 sec

RF ANT. COND. TEST OF BASE - CH.20 20-26GHZ MKR 24.362 GHZ
 REF 0.0 dBm HARMONIC 8L -74.10 dBm

hp

10 dB/

CNVLOSS

22.0

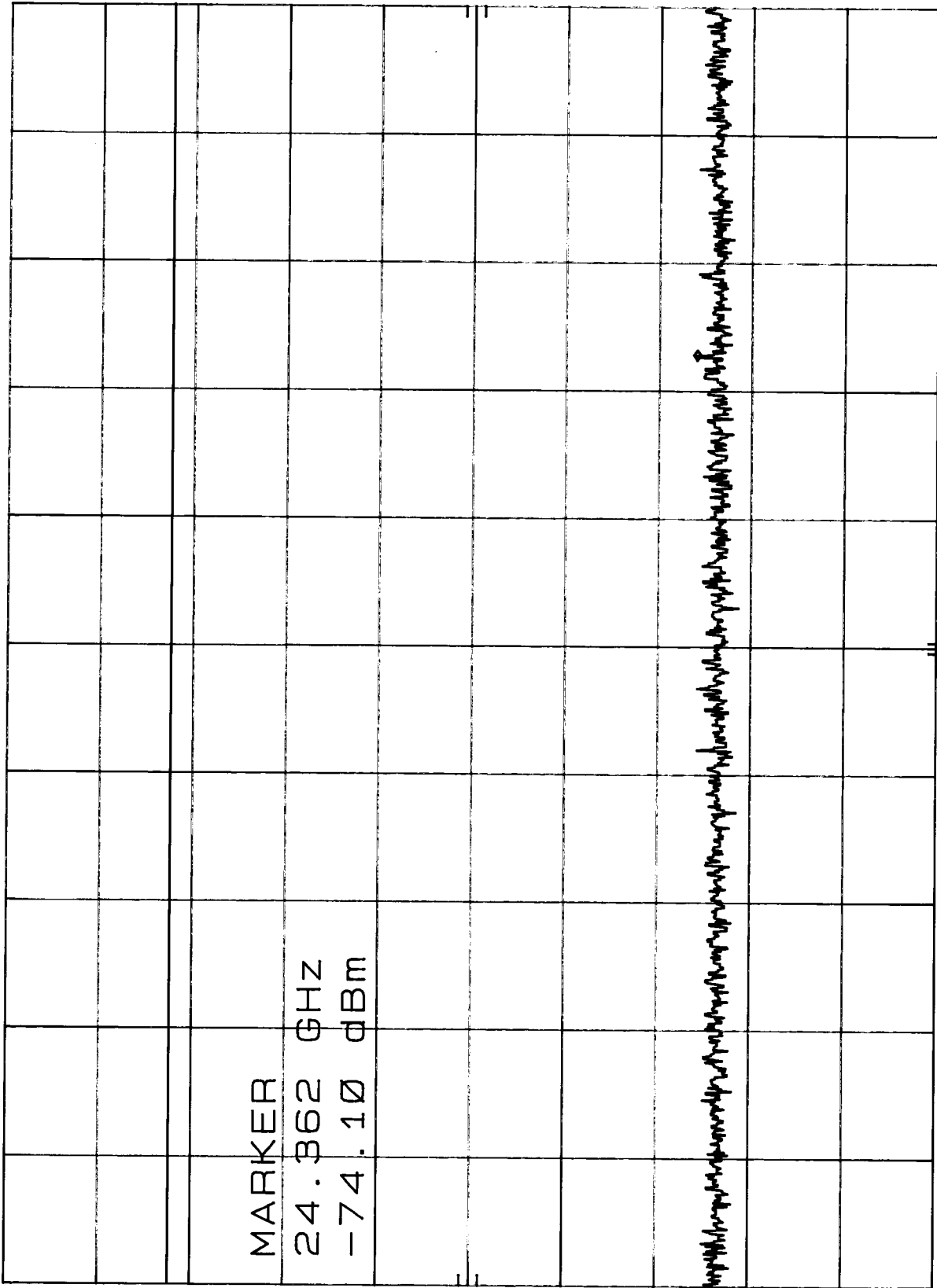
dB

MARKER

24.362 GHZ

-17.6

dBm



START 20.00 GHZ

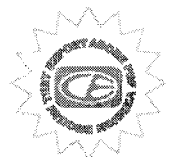
RES BW 100 KHz

VBW 300 KHz

STOP 26.00 GHZ

SWP 1.80 sec

***RF BAND EDGES
FOR THE BASE***



114 OLINDA DRIVE, BREA, CALIFORNIA 92823 PHONE: (714) 579-0500 FAX: (714) 579-1850

6-1-99

FCC ID'S: AMWUC650, AJXSG1000, AAO4301119

BAND EDGE AT 2400.00 MHz - For The Base

REF 100.0 dBμV ATTEN 10 dB

MKR 2.399 97 GHz

38.80 dBμV

hp

10 dB/

MARKER

2.399 97 GHz

38.80 dBμV

DL

51.0

dBμV

CORR'D

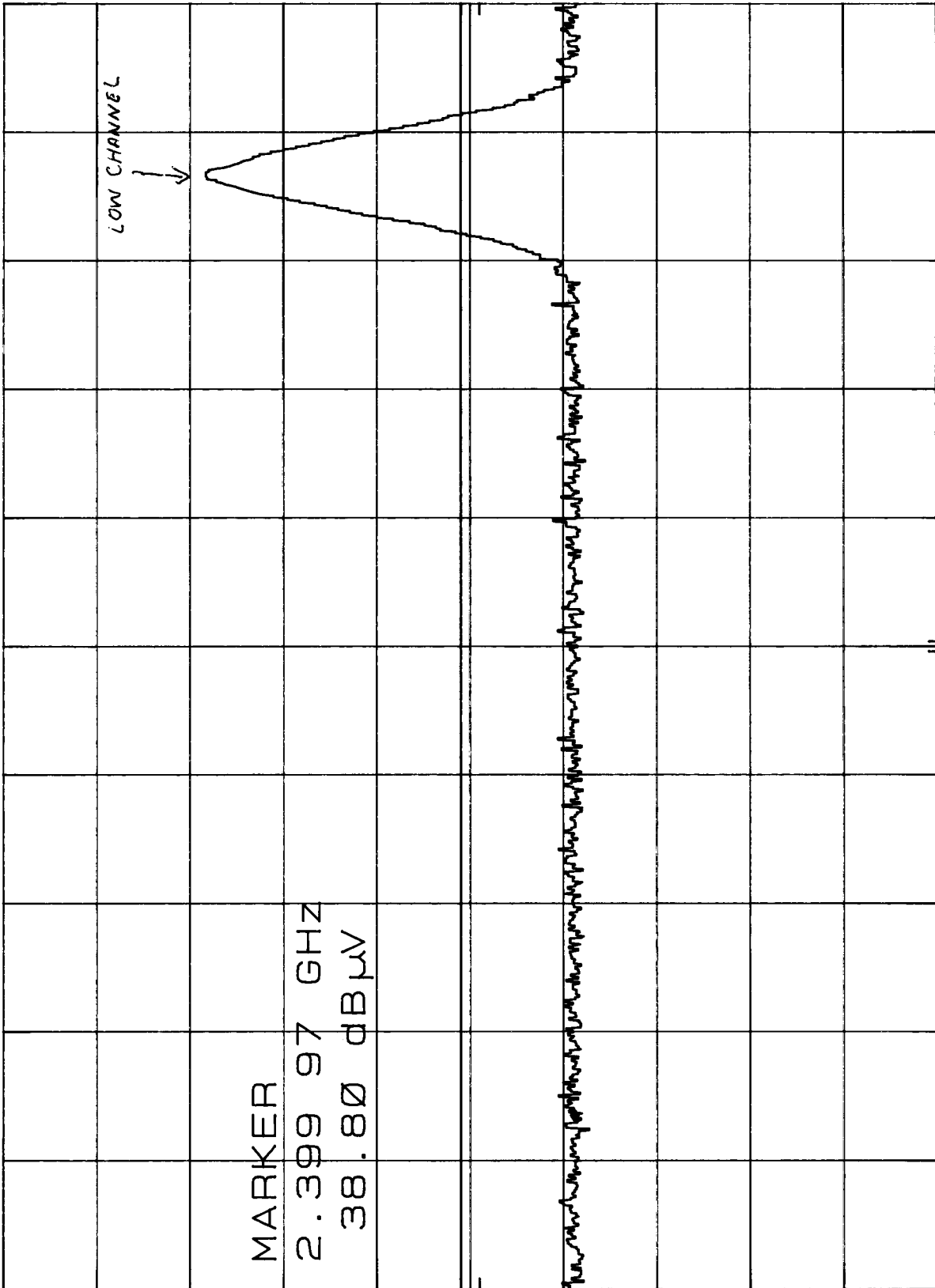
CENTER 2.427 2 GHz

RES BW 1 MHz

VBW 1 MHz

SPAN 74.4 MHz

SWP 20.0 msec

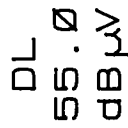


6-1-99

MKR 2.485 67 GHz
56.50 dBμV

REF 117.0 dB μ V ATTEN 20 dB

← HIGH CHANNEL

 $\leftarrow 2 \text{MHZ} \rightarrow$

2483.00 GHz

2485.67 GHz

CORR.D

SPAN 20.0 MHZ

VBW 1 MHz

SWP 20.0 msec

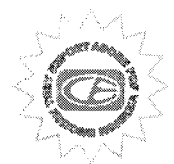


**COMPATIBLE
ELECTRONICS**

FCC ID'S: AMWUC650, AJXSG1000, AAO4301119
Report Number: B90603D1



***PROCESSING GAIN
DATA SHEETS FOR THE BASE***



114 OLINDA DRIVE, BREA, CALIFORNIA 92823 PHONE: (714) 579-0500 FAX: (714) 579-1850

PROCESSING GAIN TEST

CHANNEL 10 (2464.40 MHz) - Base station output to handset input

LOSSES

Jammer	Transmitter	Signal	CW	Mj	Processing	Attenuation	30.5
Freq.	Output	Level	Noise	J/S ratio	Gain	Combiner Loss	3.6
(MHz)	(dBm)	(dBm)	(dBm)	(dB)	(dBm)	Cable Loss (TX Out)	1.1
						System Loss	2
						S/N ratio	8
2463.40	-8.80	-44.00	-39.80	4.20	14.20		
2463.45	-8.80	-44.00	-39.50	4.50	14.50		
2463.50	-8.80	-44.00	-40.50	3.50	13.50		
2463.55	-8.80	-44.00	-41.20	2.80	12.80		
2463.60	-8.80	-44.00	-42.20	1.80	11.80		
2463.65	-8.80	-44.00	-42.50	1.50	11.50	Signal Level = Level of Transmitter	
2463.70	-8.80	-44.00	-41.80	2.20	12.20	Output after the Combiner	
2463.75	-8.80	-44.00	-42.50	1.50	11.50		
2463.80	-8.80	-44.00	-40.50	3.50	13.50	CW Noise = Level of Jamming Singal	
2463.85	-8.80	-44.00	-42.50	1.50	11.50	After the Combiner	
2463.90	-8.80	-44.00	-40.50	3.50	13.50		
2463.95	-8.80	-44.00	-41.20	2.80	12.80	Mj J/S ratio = CW Noise - Signal Level	
2464.00	-8.80	-44.00	-42.30	1.70	11.70		
2464.05	-8.80	-44.00	-40.10	3.90	13.90	Processing Gain =	
2464.10	-8.80	-44.00	-38.70	5.30	15.30	Mj J/S ratio + System Loss + S/N ratio.	
2464.15	-8.80	-44.00	-42.10	1.90	11.90		
2464.20	-8.80	-44.00	-42.60	1.40	11.40		
2464.25	-8.80	-44.00	-43.50	0.50	10.50		
2464.30	-8.80	-44.00	-42.60	1.40	11.40		
2464.35	-8.80	-44.00	-43.50	0.50	10.50		
2464.40	-8.80	-44.00	-43.20	0.80	10.80		

FCC ID'S: AMWUC650, AJXSG1000, AAO4301119

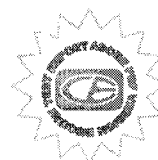
PROCESSING GAIN WORKSHEET

CHANNEL 10 (2464.40 MHz) - Base station output to handset input

LOSSES

						Attenuation	30.5
						Combiner Loss	3.6
						Cable Loss (TX Out)	1.1
						System Loss	2
						S/N ratio	8
Jammer	Transmitter	Signal	CW	Mj	Processing		
Freq.	Output	Level	Noise	J/S ratio	Gain		
(MHz)	(dBm)	(dBm)	(dBm)	(dB)	(dBm)		
2464.45	-8.80	-44.00	-42.10	1.90	11.90		
2464.50	-8.80	-44.00	-42.50	1.50	11.50		
2464.55	-8.80	-44.00	-41.60	2.40	12.40		
2464.60	-8.80	-44.00	-42.50	1.50	11.50		
2464.65	-8.80	-44.00	-43.60	0.40	10.40		
2464.70	-8.80	-44.00	-41.50	2.50	12.50	Signal Level = Level of Transmitter	
2464.75	-8.80	-44.00	-41.00	3.00	13.00	Output after the Combiner	
2464.80	-8.80	-44.00	-41.50	2.50	12.50		
2464.85	-8.80	-44.00	-41.60	2.40	12.40	CW Noise = Level of Jamming Singal	
2464.90	-8.80	-44.00	-41.20	2.80	12.80	After the Combiner	
2464.95	-8.80	-44.00	-41.70	2.30	12.30		
2465.00	-8.80	-44.00	-42.10	1.90	11.90	Mj J/S ratio = CW Noise - Signal Level	
2465.05	-8.80	-44.00	-43.20	0.80	10.80		
2465.10	-8.80	-44.00	-42.10	1.90	11.90	Processing Gain =	
2465.15	-8.80	-44.00	-41.50	2.50	12.50	Mj J/S ratio + System Loss + S/N ratio.	
2465.20	-8.80	-44.00	-40.20	3.80	13.80		
2465.25	-8.80	-44.00	-39.70	4.30	14.30		
2465.30	-8.80	-44.00	-38.60	5.40	15.40		
2465.35	-8.80	-44.00	-37.80	6.20	16.20		
2465.40	-8.80	-44.00	-36.50	3.90	13.90		
2465.45	-8.80	-44.00	-38.40	5.60	15.60		

***RADIATED EMISSIONS
DATA SHEETS FOR THE HANDSET***



114 OLINDA DRIVE, BREA, CALIFORNIA 92823 PHONE: (714) 579-0500 FAX: (714) 579-1850

FCC ID'S: AMWUC650, AJXSG1000, AAO4301119

Page: 1 of 3

Test location: Compatible Electronics
 Customer : UNIDEN CORPORATION Date : 6/ 2/1999
 Manufacturer : UNIDEN CORPORATION Time : 13.03
 EUT name : 2.4 GHZ SPREAD SPEC. CORD. PHONE Model: EXR2460
 Specification: Fcc_B Test distance: 3.0 mtrs Lab: D
 Distance correction factor(20*log(test/spec)) : 0.00
 Test Mode : HANDSET - SPURIOUS EMISSIONS
 TEMPERATURE 63 DEGREES F.
 RELATIVE HUMIDITY 56%
 TESTED BY: Kyle Fujimoto
 KYLE FUJIMOTO

Pol	Freq MHz	Rdng dBuV	Cable loss dB	Ant factor dB	Amp gain dB	Cor'd rdg = R dBuV	limit = L dBuV/m	Delta R-L dB
1H	47.99	44.40	0.98	11.02	38.60	17.80	40.00	-22.20
2H	110.39	46.70	1.34	10.06	38.68	19.42	43.50	-24.08
3H	283.19	35.10	2.47	19.99	38.43	19.12	46.00	-26.88
4H	302.48	39.80	2.40	16.32	38.50	20.02	46.00	-25.98
5H	307.28	43.30	2.41	16.37	38.51	23.57	46.00	-22.43
6H	364.88	42.40	2.59	16.29	38.48	22.80	46.00	-23.20
7H	403.28	44.80	2.80	15.36	38.17	24.78	46.00	-21.22
8H	643.27	36.20	3.67	20.54	38.05	22.36	46.00	-23.64

Test location: Compatible Electronics

Customer : UNIDEN CORPORATION

Date : 6/ 2/1999

Manufacturer : UNIDEN CORPORATION

Time : 13.27

EUT name : 2.4 GHZ SPREAD SPEC. CORD. PHONE Model: EXR2460

Specification: Fcc_B Test distance: 3.0 mtrs Lab: D

Distance correction factor($20 \cdot \log(\text{test}/\text{spec})$) : 0.00

Test Mode : HANDSET - SPURIOUS EMISSIONS

TEMPERATURE 63 DEGREES F.

RELATIVE HUMIDITY 75%

TESTED BY: Kyle Fujimoto

KYLE FUJIMOTO

Pol	Freq MHz	Rdng dBuV	Cable loss dB	Ant factor dB	Amp gain dB	Cor'd rdg = R dBuV	limit = L dBuV/m	Delta R-L dB
1V	52.79	44.60	1.03	10.88	38.60	17.90	40.00	-22.10
2V	239.99	34.00	2.04	17.28	38.36	14.96	46.00	-31.04
3V	268.86	41.30	2.43	18.76	38.40	24.08	46.00	-21.92
4V	302.46	39.60	2.40	16.32	38.50	19.82	46.00	-26.18
5V	350.46	42.00	2.50	16.78	38.60	22.69	46.00	-23.31
6V	369.66	43.20	2.62	16.13	38.44	23.51	46.00	-22.49
7V	379.26	48.90	2.68	15.81	38.37	29.01	46.00	-16.99
8V	388.86	45.70	2.73	15.48	38.29	25.62	46.00	-20.38
9V	398.46	46.50	2.79	15.15	38.21	26.23	46.00	-19.77
10V	427.26	46.20	2.80	17.23	37.98	28.24	46.00	-17.76
11V	446.46	44.10	2.80	18.72	37.83	27.80	46.00	-18.20
12V	518.37	40.60	3.21	17.27	38.15	22.92	46.00	-23.08
13V	628.77	36.70	3.62	20.19	38.17	22.34	46.00	-23.66

FCC ID'S: AMWUC650, AJXSG1000, AAO4301119

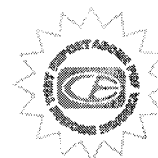
Page: 3 of 3

Test location: Compatible Electronics
Customer : UNIDEN CORPORATION Date : 6/ 2/1999
Manufacturer : UNIDEN CORPORATION Time : 13.48
EUT name : 2.4 GHZ SPREAD SPEC. CORD. PHONE Model: EXR2460
Specification: Fcc_B Test distance: 3.0 mtrs Lab: D
Distance correction factor($20 \cdot \log(\text{test}/\text{spec})$) : 0.00
Test Mode : HANDSET - SPURIOUS EMISSIONS
TEMPERATURE 63 DEGREES F.
RELATIVE HUMIDITY 75%
TESTED BY: *Kyle Fujimoto*
KYLE FUJIMOTO

NO EMISSIONS FOUND FROM 10 kHz TO 30 MHz IN EITHER
POLARIZATION FOR THE HANDSET



***6 dB BANDWIDTH
DATA SHEETS FOR THE HANDSET***



114 OLINDA DRIVE, BREA, CALIFORNIA 92823 PHONE: (714) 579-0500 FAX: (714) 579-1850

FCC ID'S: AMWUC650, AJXSG1000, AAO4301119

6-2-99

MKR Δ 1.450 MHz
0.00 dB

-6 dB BANDWIDTH HANDSET CH. 1
REF 10.0 dBm ATTN 20 dB

hp

10 dB/

MARKER Δ
1.450 MHz
0.00 dB

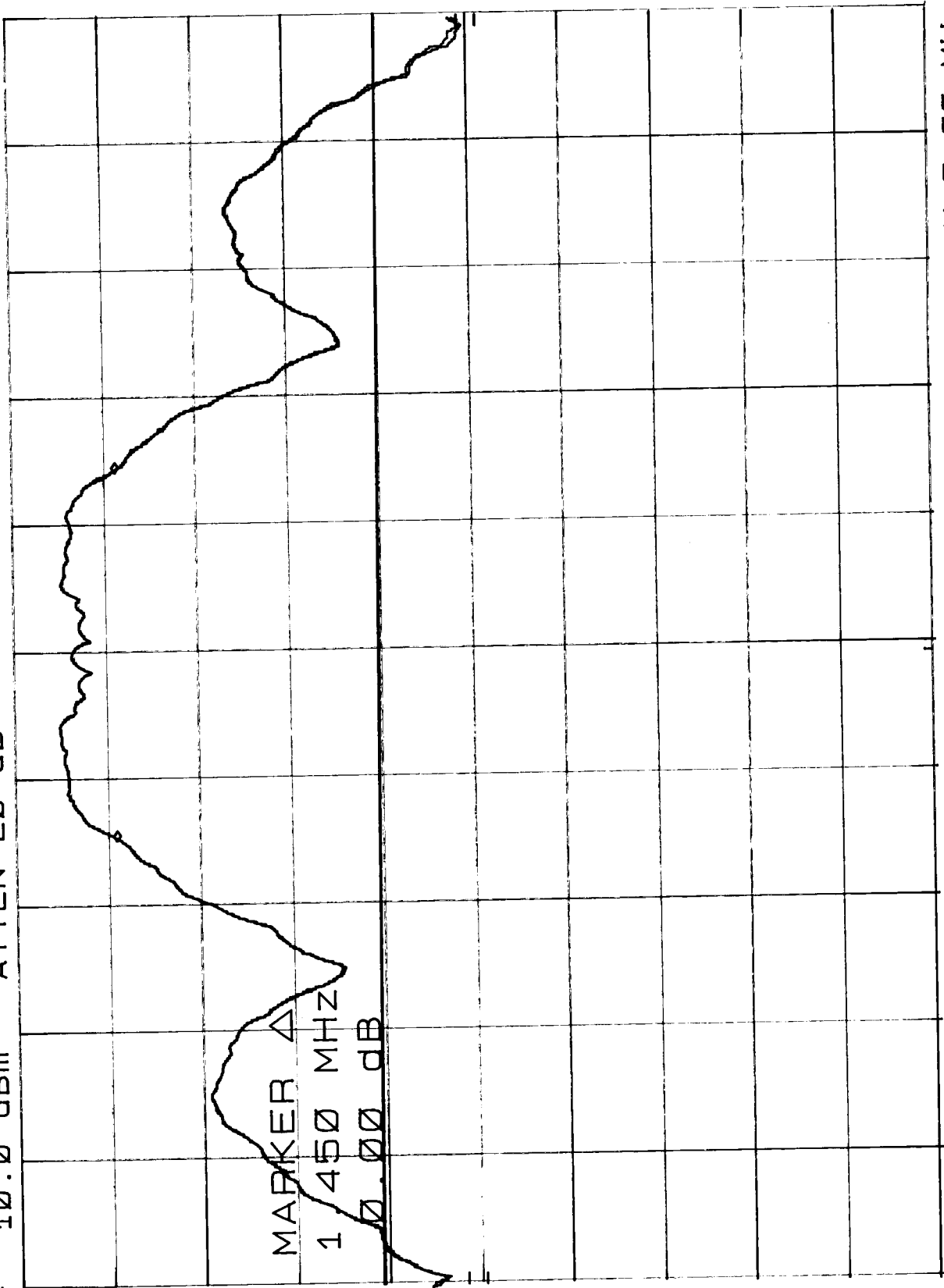
DL
-30.0
dBm

CORR'D

CENTER 2.454 19 GHz
RES BW 100 kHz

VBW 300 kHz

SPAN 5.00 MHz
SWP 20.0 msec



FCC ID'S: AMWUC650, AJXSG1000, AAO4301119

-6 dB BANDWIDTH HANDSET CH. 10

REF 10.0 dBm ATTEN 20 dB

MKR Δ 1.445 MHz

0.00 dB

hp

10 dB/

MARKER Δ
1.445 MHz
0.00 dB

DL
-30.0
dBm

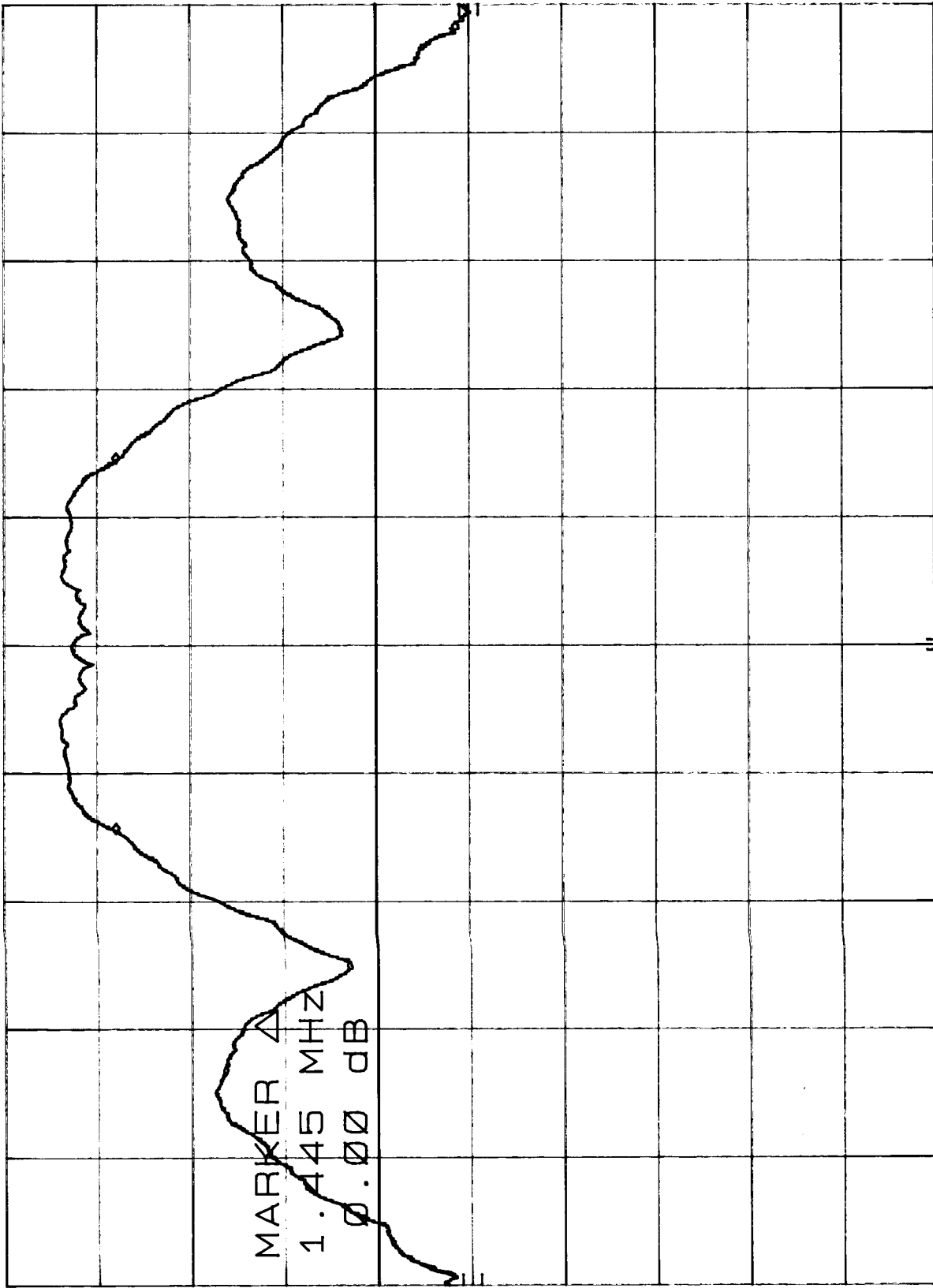
CORR'D

CENTER 2.464 39 GHz

RES BW 100 kHz

VBW 300 kHz

SPAN 5.00 MHz
SWP 20.0 msec



FCC ID'S: AMWUC650, AJXSG1000, AAO4301119

-6 dB BANDWIDTH HANDSET CH. 20

REF 10.0 dBm ATTEN 20 dB

MKR Δ 1.445 MHz
-0.10 dB

HP

10 dB/

MARKER Δ

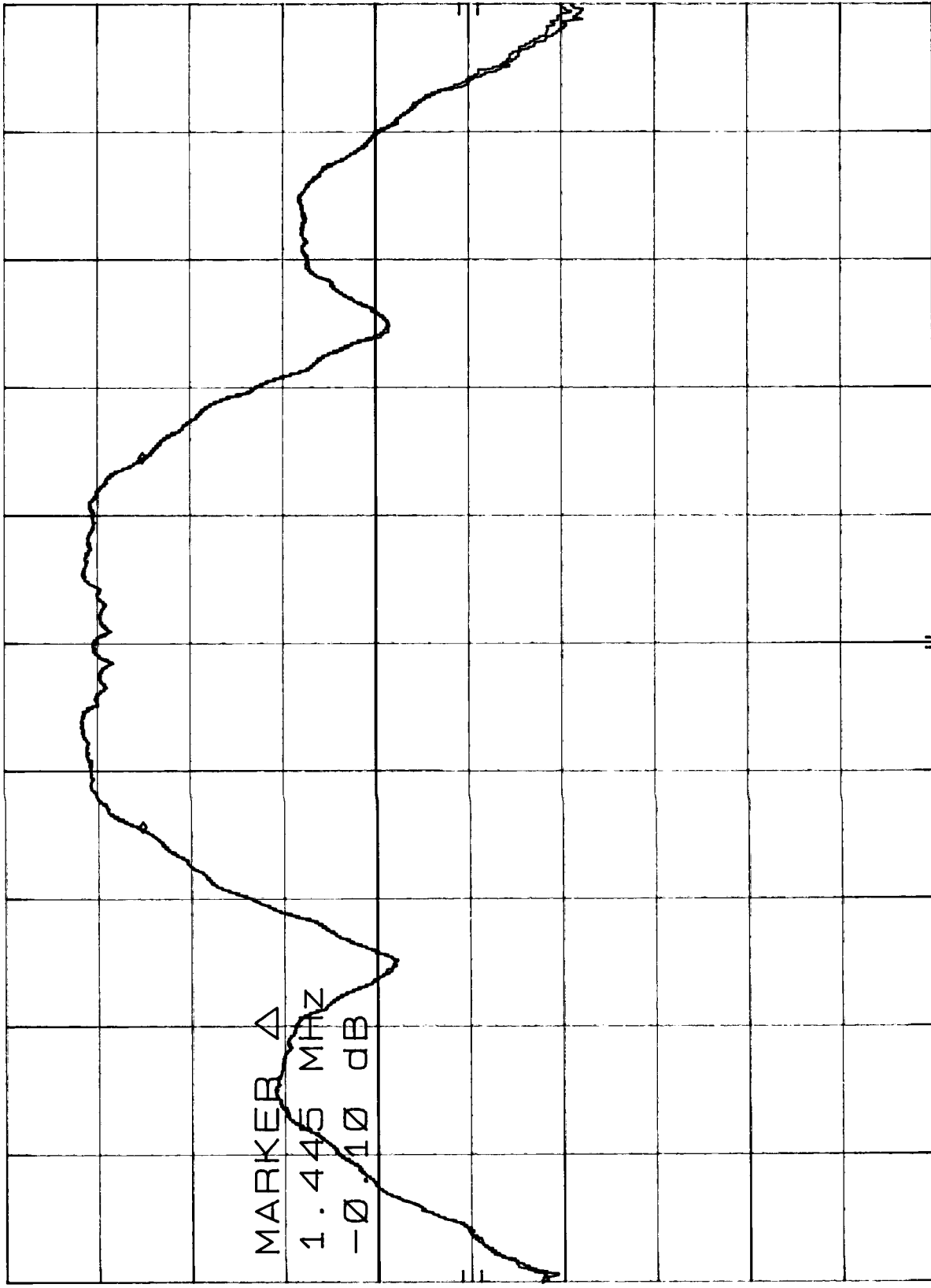
1.445 MHz

-0.10 dB

DL

-30.0
dBm

CORR'D



CENTER 2.475 79 GHz

RES BW 100 kHz

VBW 300 kHz

SPAN 5.00 MHz
SWP 20.0 msec



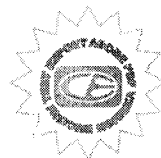
**COMPATIBLE
ELECTRONICS**

FCC ID'S: AMWUC650, AJXSG1000, AAO4301119

Report Number: B90603D1



***PEAK OUTPUT POWER
DATA SHEETS FOR THE HANDSET***



114 OLINDA DRIVE, BREA, CALIFORNIA 92823 PHONE: (714) 579-0500 FAX: (714) 579-1850

FCC ID'S: AMWUC650, AJXSG1000, AAO4301119

POWER OUTPUT HANDSET CH. 1
REF 20.0 dBm ATTN 30 dB

MKR 2.454 11 GHz
10.00 dBm

hp

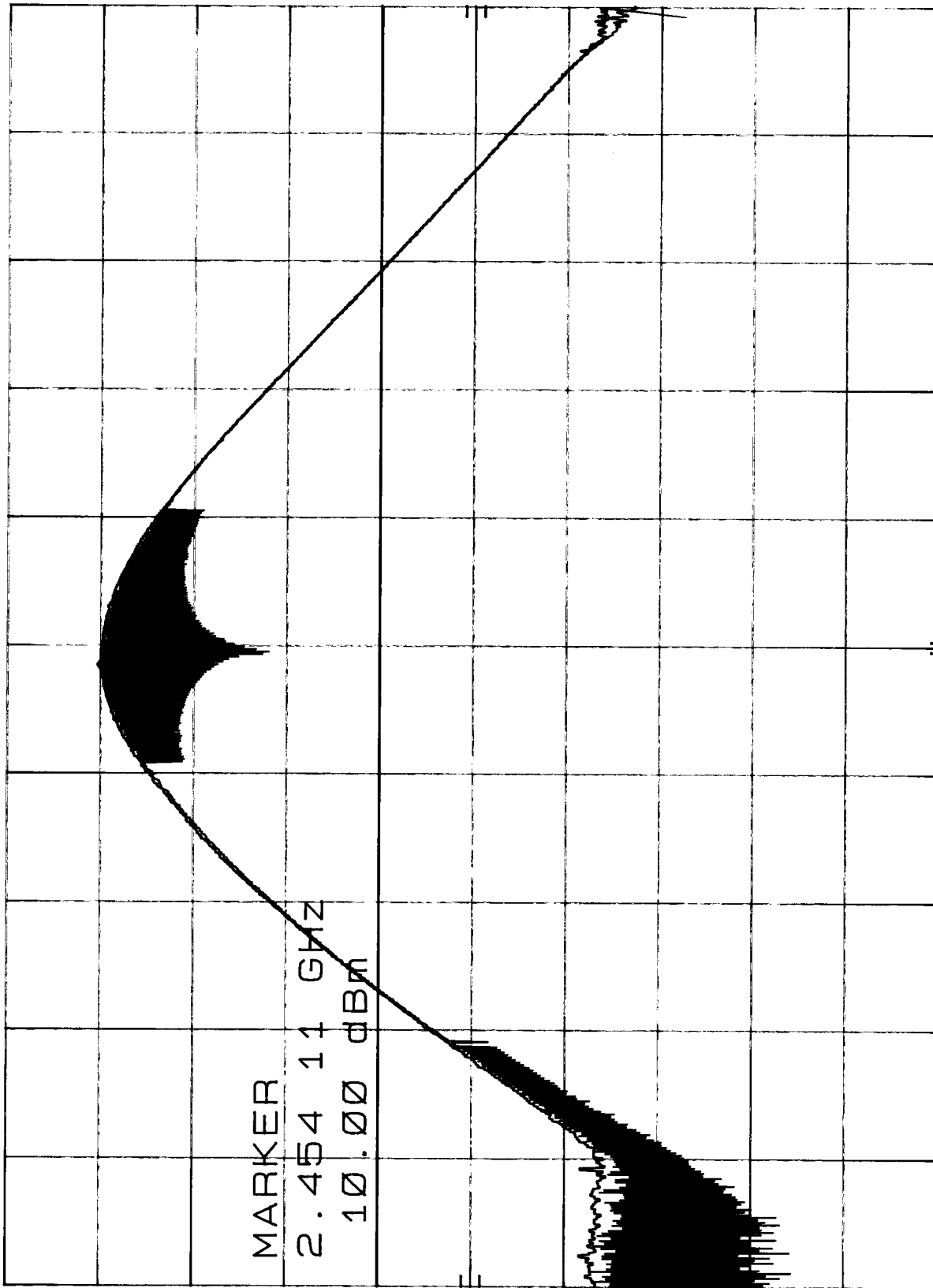
10 dB/

MARKER

2.454 11 GHz
10.00 dBm

DL
-20.0
dBm

CORR'D



CENTER 2.454 4 GHz
RES BW 3 MHz

VBW 1 MHz

SPAN 20.0 MHz
SWP 20.0 msec

FCC ID'S: AMWUC650, AJXSG1000, AAO4301119

6-2-99

POWER OUTPUT OF HANDSET CH. 10

REF 20.0 dBm ATTEN 30 dB

MKR 2.464 39 GHz

11.70 dBm

hp

10 dB/

MARKER

2.464 39 GHz

11.70 dBm

DL
-20.0
dBm

CORR'D

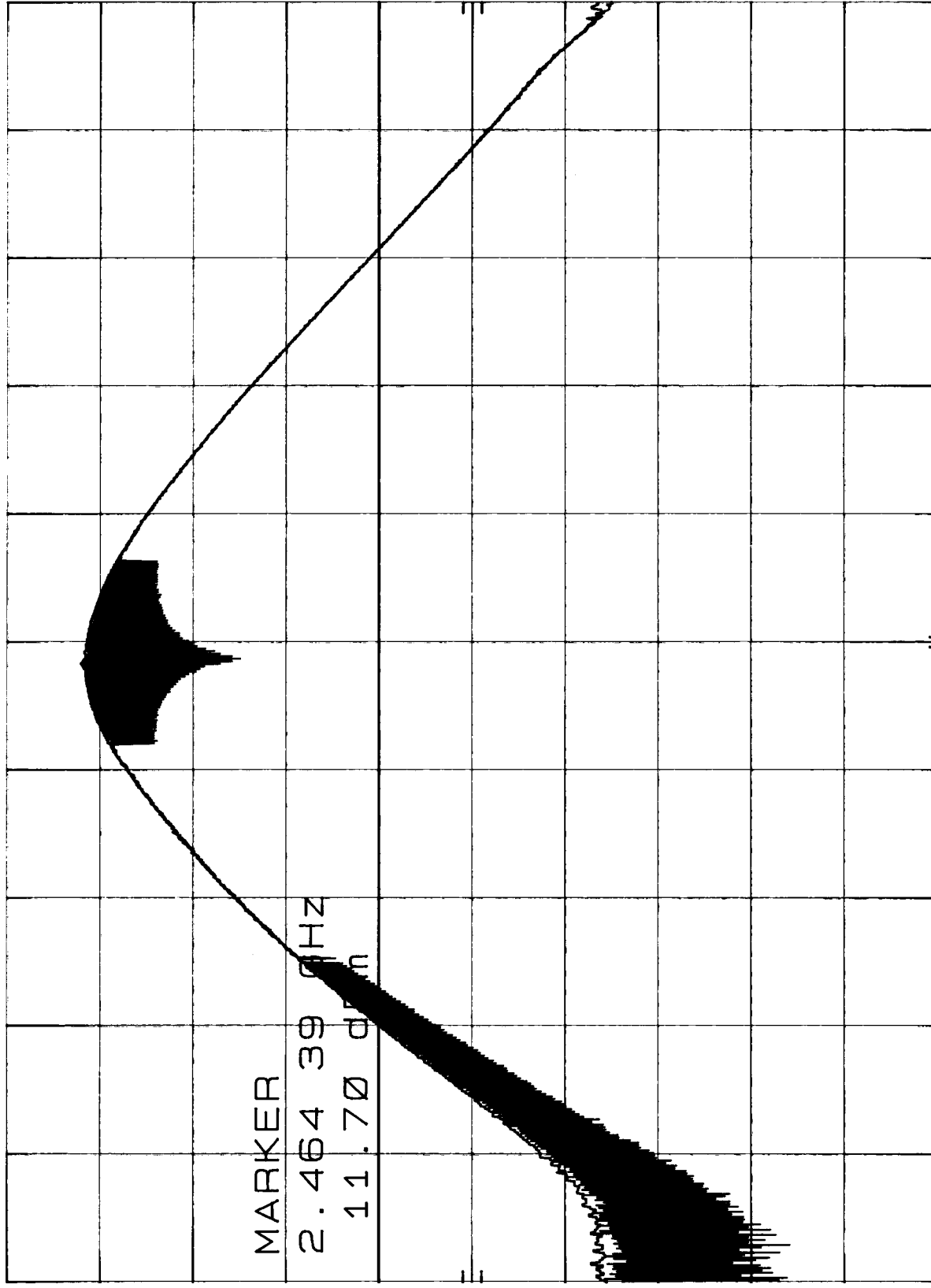
CENTER 2.464 7 GHz

RES BW 3 MHz

VBW 1 MHz

SPAN 20.0 MHz

SWP 20.0 msec



FCC ID'S: AMWUC650, AJXSG1000, AAO4301119

6-2-99

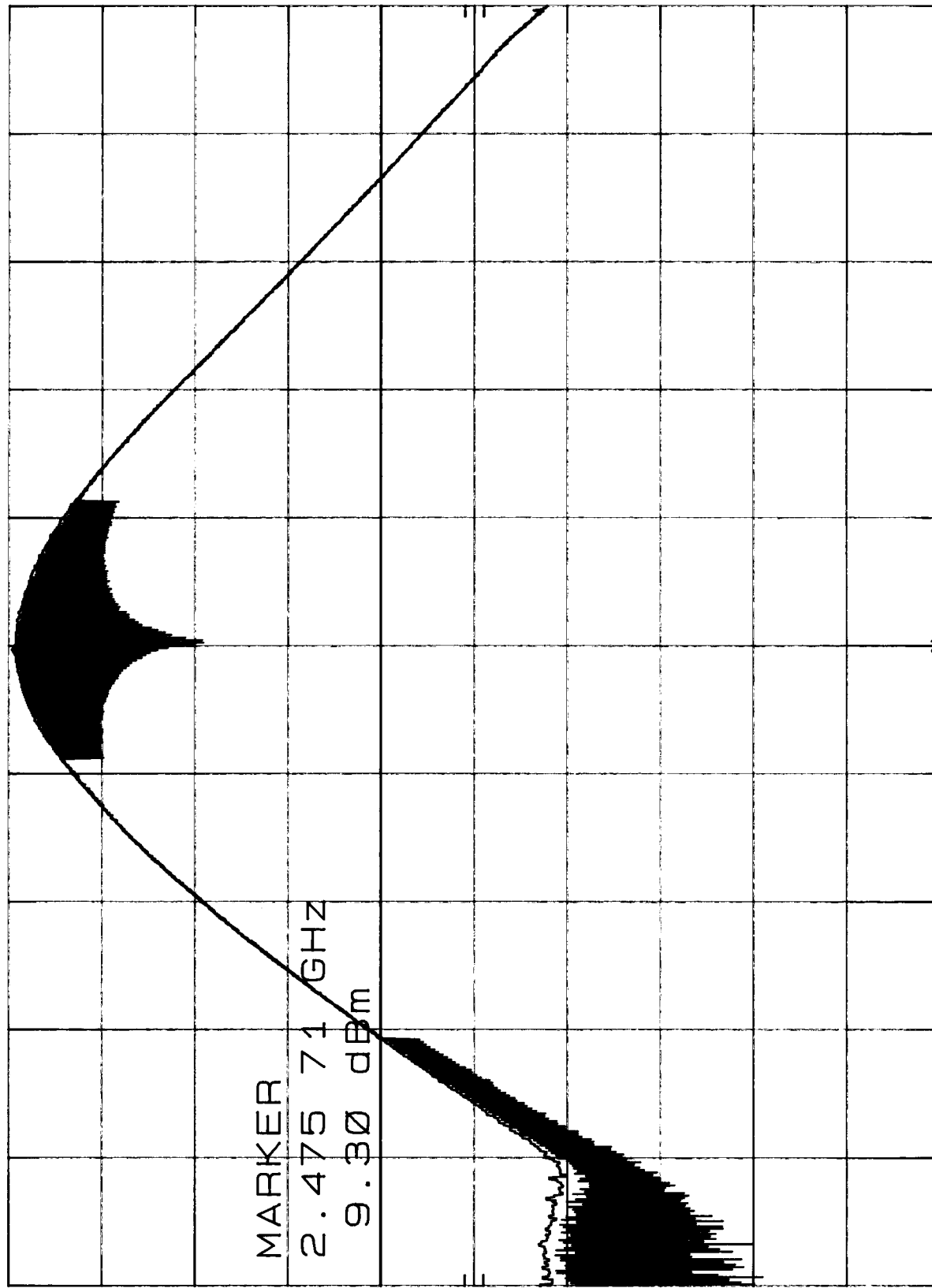
POWER OUTPUT HANDSET CH. 20

hp 10 dB/

REF 10.0 dBm ATTN 20 dB

MKR 2.475 71 GHz

9.30 dBm



CENTER 2.475 7 GHz

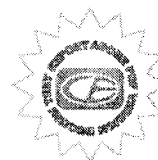
RES BW 3 MHz

VBW 1 MHz

SPAN 20.0 MHz

SWP 20.0 msec

***SPECTRAL DENSITY OUTPUT
DATA SHEETS FOR THE HANDSET***



114 OLINDA DRIVE, BREA, CALIFORNIA 92823 PHONE: (714) 579-0500 FAX: (714) 579-1850

FCC ID'S: AMWUC650, AJXSG1000, AAO4301119

SPECTRAL DENSITY OUTPUT HANDSET CH. 1 MKR 2.453 889 GHz
REF 10.0 dBm ATTN 20 dB -3.80 dBm

h_p

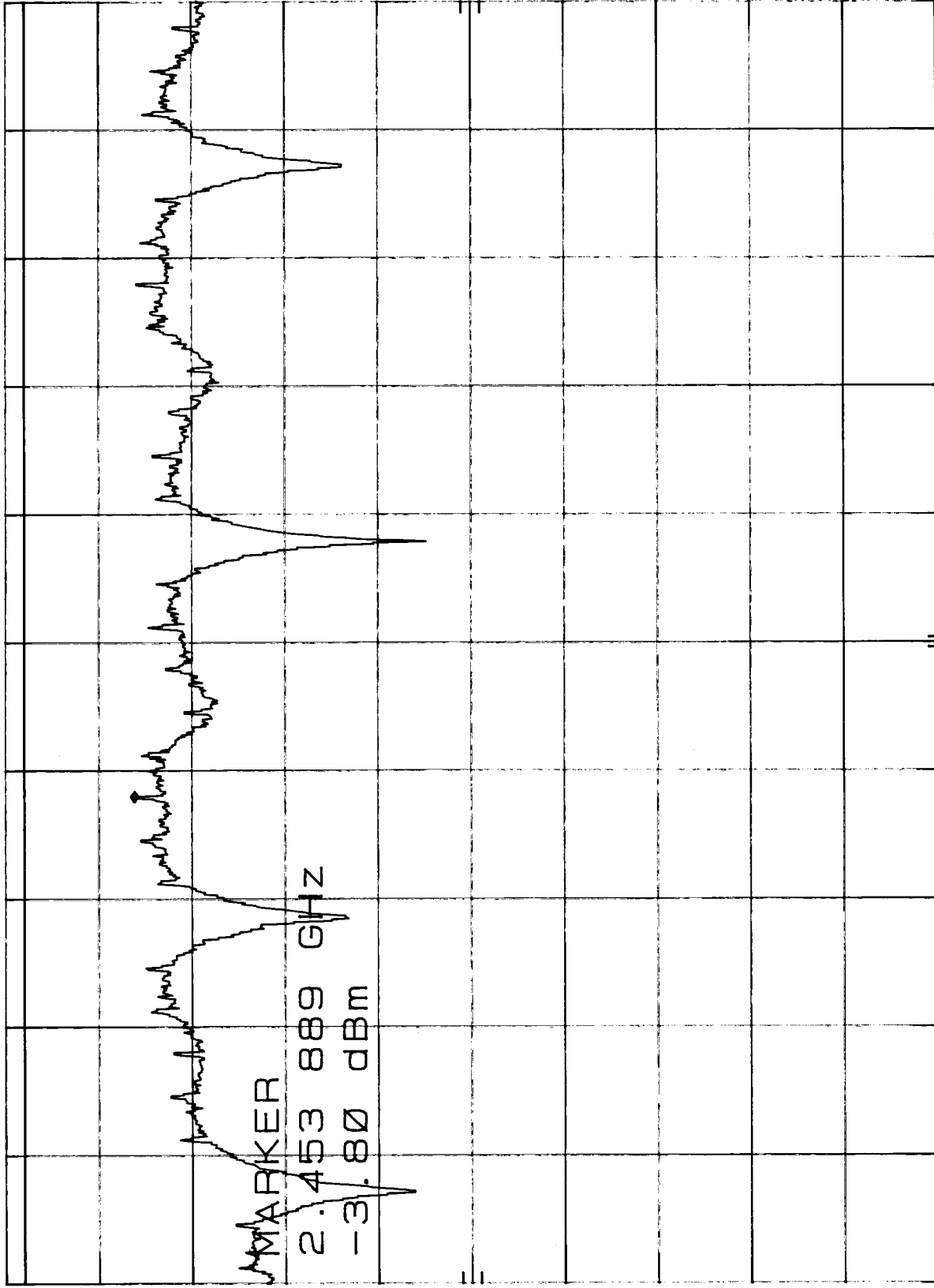
10 dB/

MARKER

2.453 889 GHz
-3.80 dBm

DL
8.0
dBm

CORR'D



CENTER 2.454 07 GHz
RES BW 3 kHz

VBW 10 kHz

SPAN 1.50 MHz
SWP 500 sec

SPECTRAL DENSITY OUTPUT HANDSET CH. 10 MKR 2.464 039 GHz
REF 10.0 dBm ATTN 20 dB -2.30 dBm

hp

10 dB/

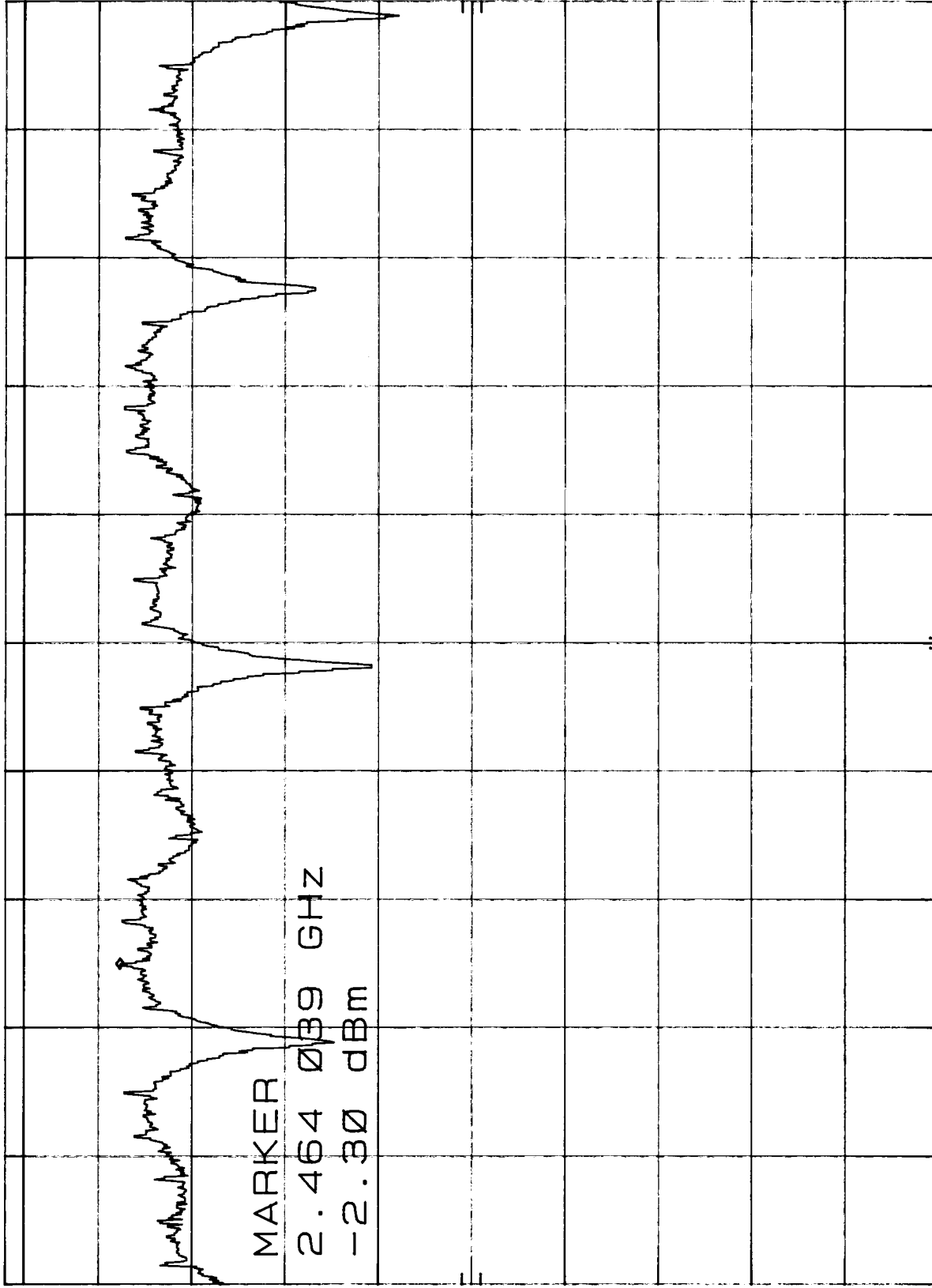
MARKER

2.464 039 GHz

-2.30 dBm

DL
8.0
dBm

CORR'D



CENTER 2.464 41 GHz
RES BW 3 kHz

VBW 10 kHz

SPAN 1.50 MHz
SWP 500 sec

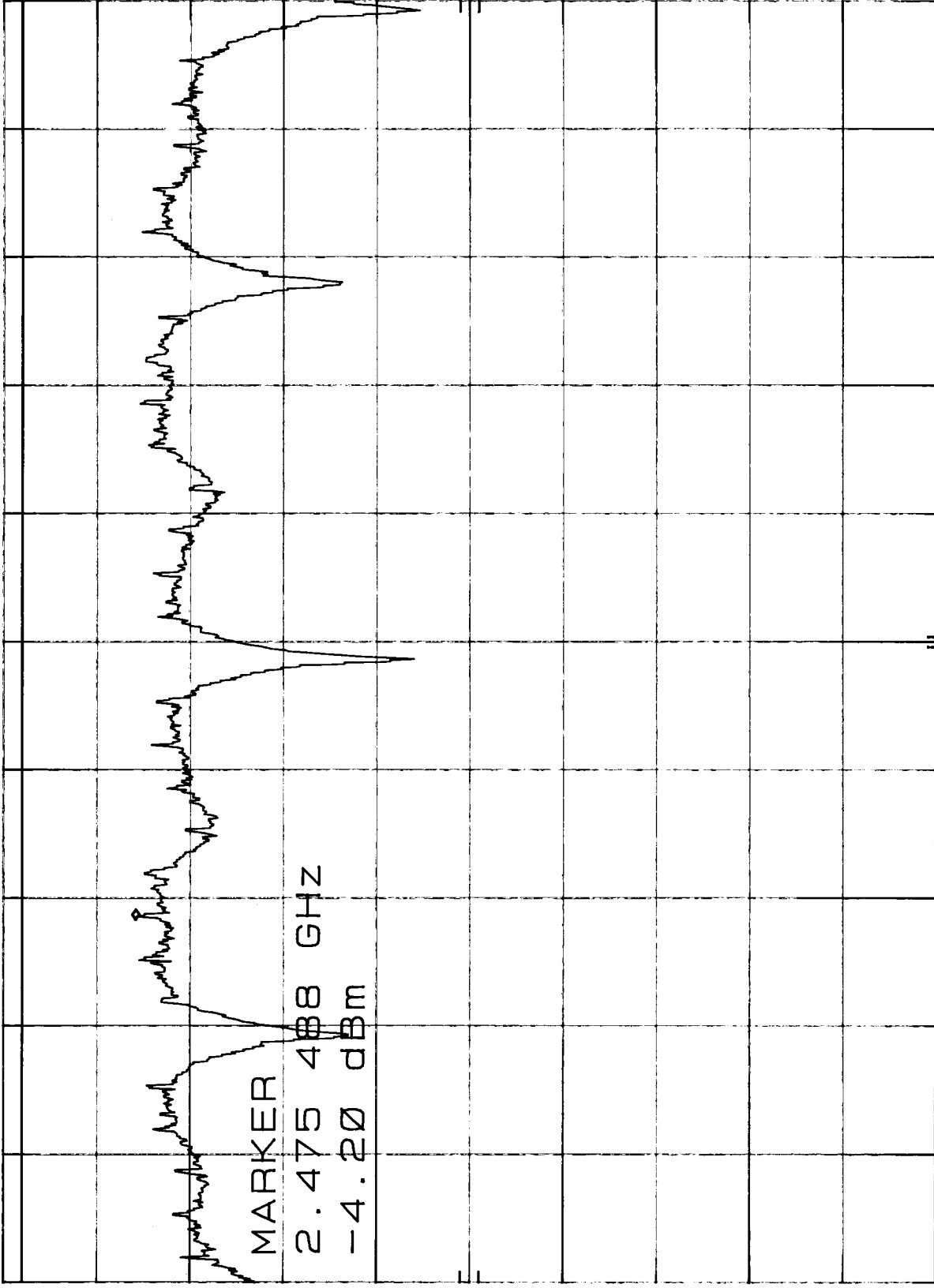
FCC ID'S: AMWUC650, AJXSG1000, AAO4301119

SPECTRAL DENSITY OUTPUT HANDSET CH. 20 MKR 2.475 488 GHz
REF 10.0 dBm ATTN 20 dB -4.20 dBm

hp

10 dB/

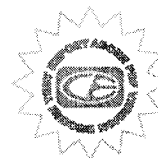
DL
8.0
dBm



CORR'D

CENTER 2.475 80 GHz RES BW 3 kHz
SPAN 1.50 MHz SWP 500 sec
VBW 10 kHz

***RF ANTENNA CONDUCTED
DATA SHEETS FOR THE HANDSET***



FCC ID'S: AMWUC650, AJXSG1000, AAO4301119

6-2-99

RF ANT. COND. TEST HANDSET 2MHZ-~~1~~ CH. 1 MKR 144.4 MHZ
REF 10.0 dBm ATTN 20 dB 500 MHz
-63.40 dBm

hp

10 dB/

MARKER

144.4 MHZ

DL

-63.40 dBm

-15.7
dBm

CORR'D

START 2 MHZ RES BW 100 KHZ VBW 300 KHZ STOP 500 MHZ
SWP 149 msec

RF ANT. COND. TEST HANDSET CH. 1 500-1000MHz MKR 545.0 MHz
 REF 10.0 dBm ATTEN 20 dB -63.10 dBm

hp

10 dB/

MARKER

545.0 MHz

DL
 -15.7
 dBm

-63.10 dBm

CORR'D



START 500 MHz

RES BW 100 kHz

VBW 300 kHz

STOP 1.000 GHz

SWP 150 msec

RF ANT. COND. TEST HANDSET CH. 1 1-1.5GHZ MKR 1.038 0 GHZ
 REF 10.0 dBm ATTEN 20 dB -62.60 dBm

hp

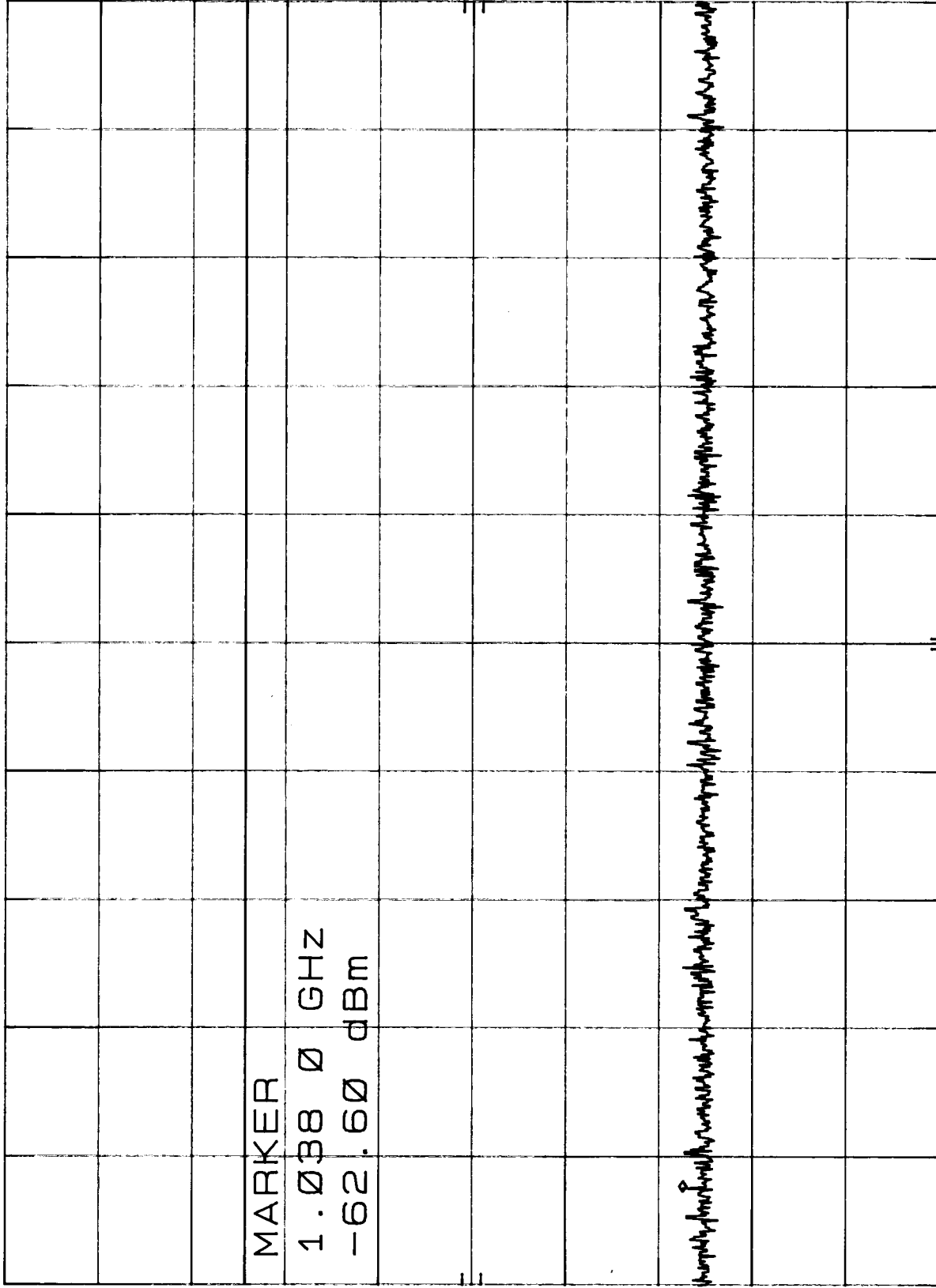
10 dB/

MARKER

1.038 0 GHZ
 -62.60 dBm

DL
 -15.7
 dBm

CORR'D



START 1.000 GHZ RES BW 100 KHZ VBW 300 KHZ STOP 1.500 GHZ
 SWP 150 msec

RF ANT. COND. TEST HANDSET CH. 1 1.5-2GHZ MKR 1.538 0 GHZ
 REF 10.0 dBm ATTEN 20 dB -62.60 dBm

hp

10 dB/

MARKER

1.538 0 GHZ

-62.60 dBm

DL
 -15.7
 dBm

CORR'D

1.538 0 GHZ

START 1.500 GHZ STOP 2.000 GHZ
 RES BW 100 KHZ SWP 150 msec
 VBW 300 KHZ

FCC ID'S: AMWUC650, AJXSG1000, AAO4301119

6-2-99

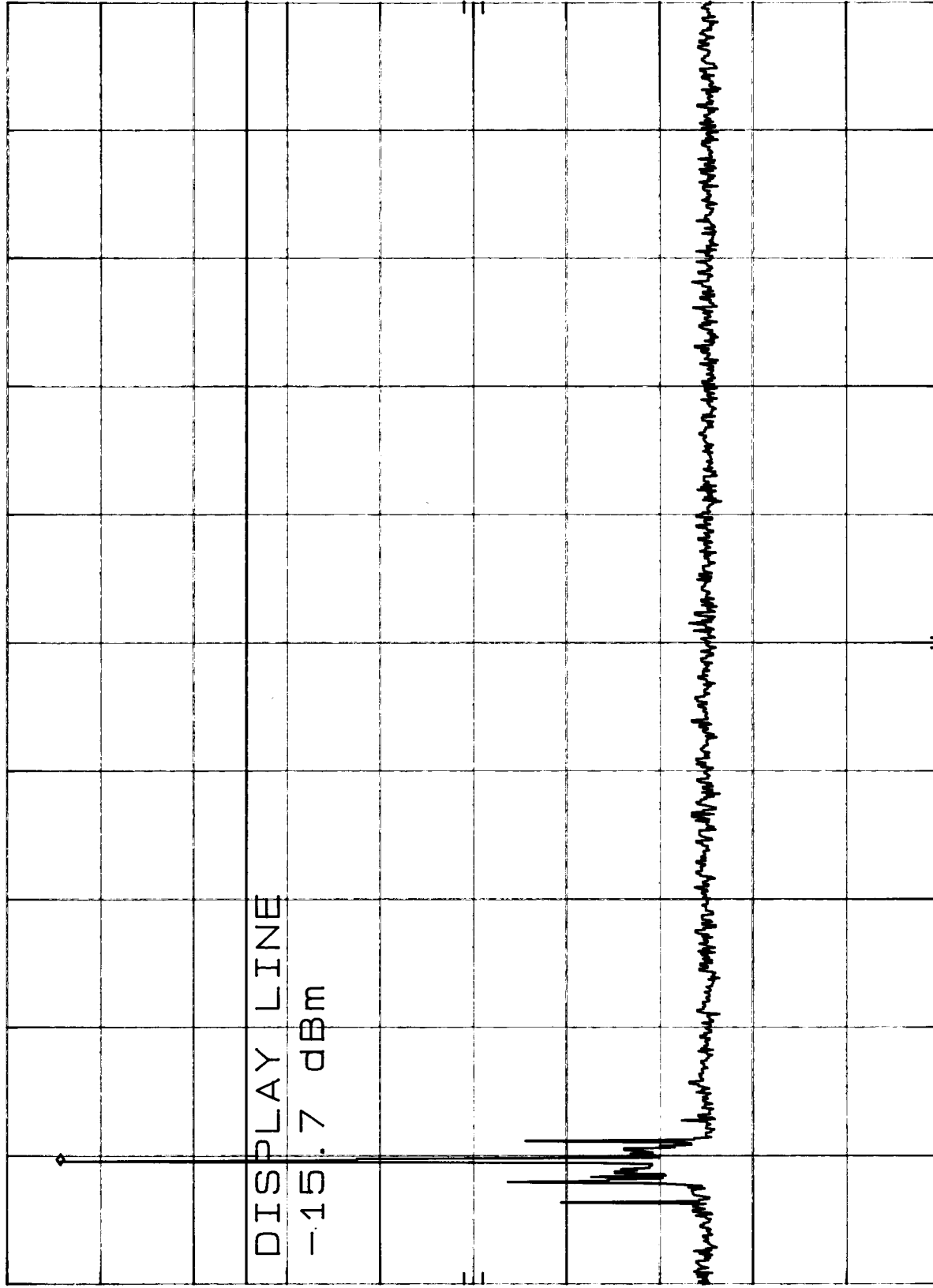
RF ANT. COND. TEST HANDSET CH. 1 2-10GHZ MKR 2.768 GHZ
REF 10.0 dBm ATTEN 20 dB 4.30 dBm

hp

10 dB/

DL
-15.7
dBm

CORR'D



START 2.00 GHZ STOP 10.00 GHZ
RES BW 100 KHZ VBW 300 KHZ SWP 2.40 sec

FCC ID'S: AMWUC650, AJXSG1000, AAO4301119

6-2-99

RF ANT. COND. TEST HANDSET CH. 1 10-20GHZ MKR 11.17 GHZ
REF 10.0 dBm ATTN 20 dB -65.40 dBm

hp

10 dB/

MARKER

11.17 GHZ

DL
-15.7
dBm

-65.40 dBm

CORR'D

Handwritten notes and markings on the grid, including a large 'E' and various scribbles.

START 10.0 GHZ

RES BW 100 KHZ

VBW 300 KHZ

STOP 20.0 GHZ
SWP 3.00 sec

FCC ID'S: AMWUC650, AJXSG1000, AAO4301119

6-2-99

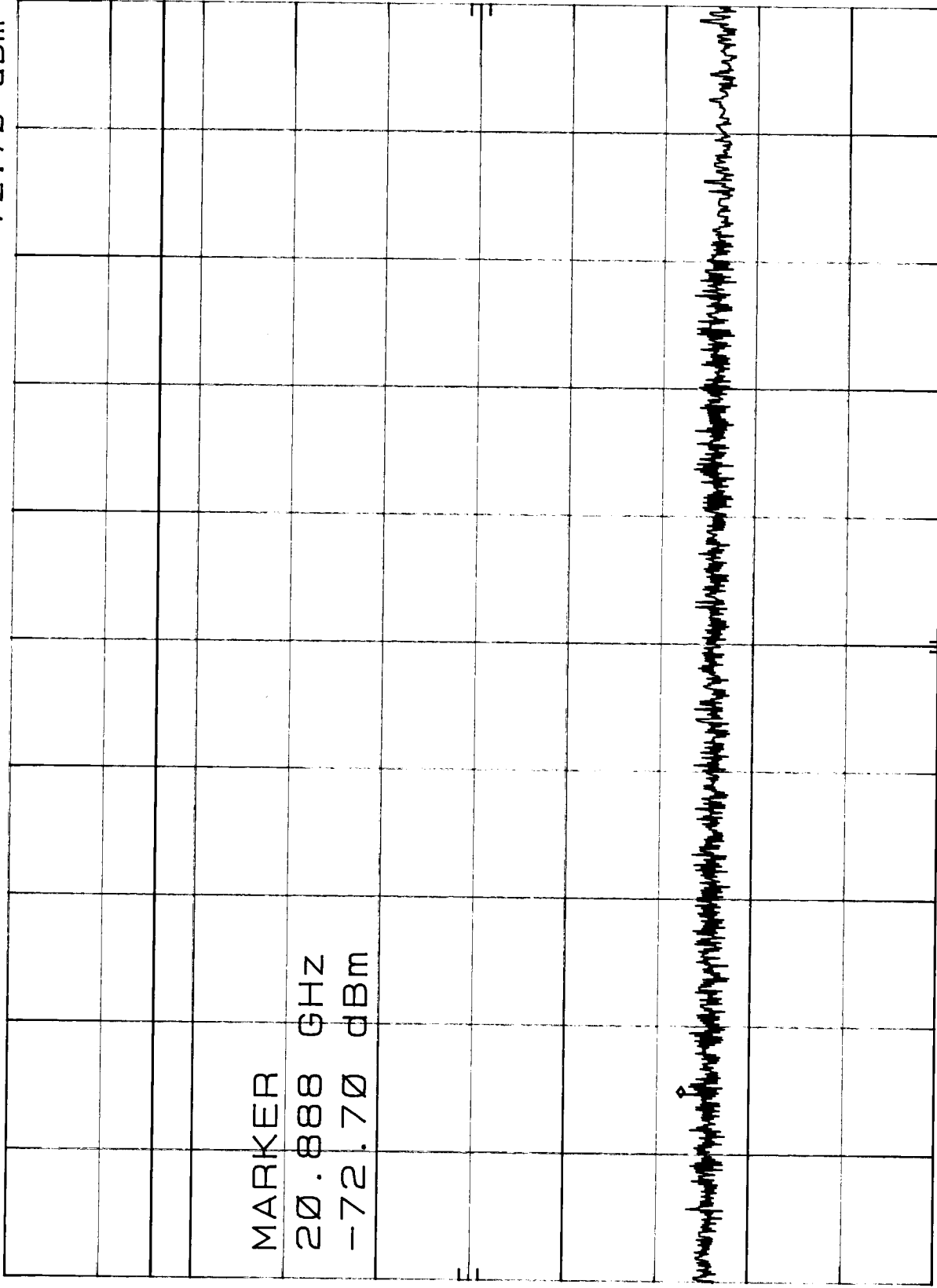
RF ANT. COND. TEST HANDSET CH. 1 20-26GHZ MKR 20.888 GHZ
REF 0.0 dBm HARMONIC 6L -72.70 dBm

10 dB/

CNVLOSS
22.0
dB

DL
-15.7
dBm

MARKER
20.888 GHZ
-72.70 dBm



START 20.00 GHZ STOP 26.00 GHZ
RES BW 100 KHz SWP 1.80 sec
VBW 300 KHz

FCC ID'S: AMWUC650, AJXSG1000, AAO4301119

6-2-99

RF ANT. COND. TEST HANDSET CH. 10 2MHZ-2GHZ MKR 1.886 GHZ
REF 10.0 dBm ATTEN 20 dB -57.60 dBm

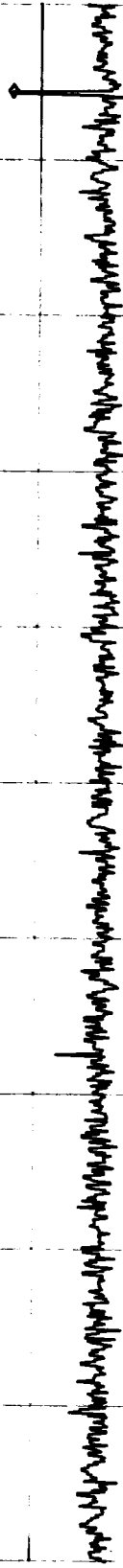
hp

10 dB/

MARKER

DL
1.886 GHZ
-57.60 dBm
-19.5 dBm

CORR'D



START 2 MHZ RES BW 100 KHZ VBW 300 KHZ STOP 2.00 GHZ
SWP 599 msec

FCC ID'S: AMWUC650, AJXSG1000, AAO4301119

6-2-99

RF ANT. COND. TEST HANDSET CH. 10 2-10GHZ MKR 2.456 GHZ
REF 10.0 dBm ATTEN 20 dB 0.50 dBm

hp

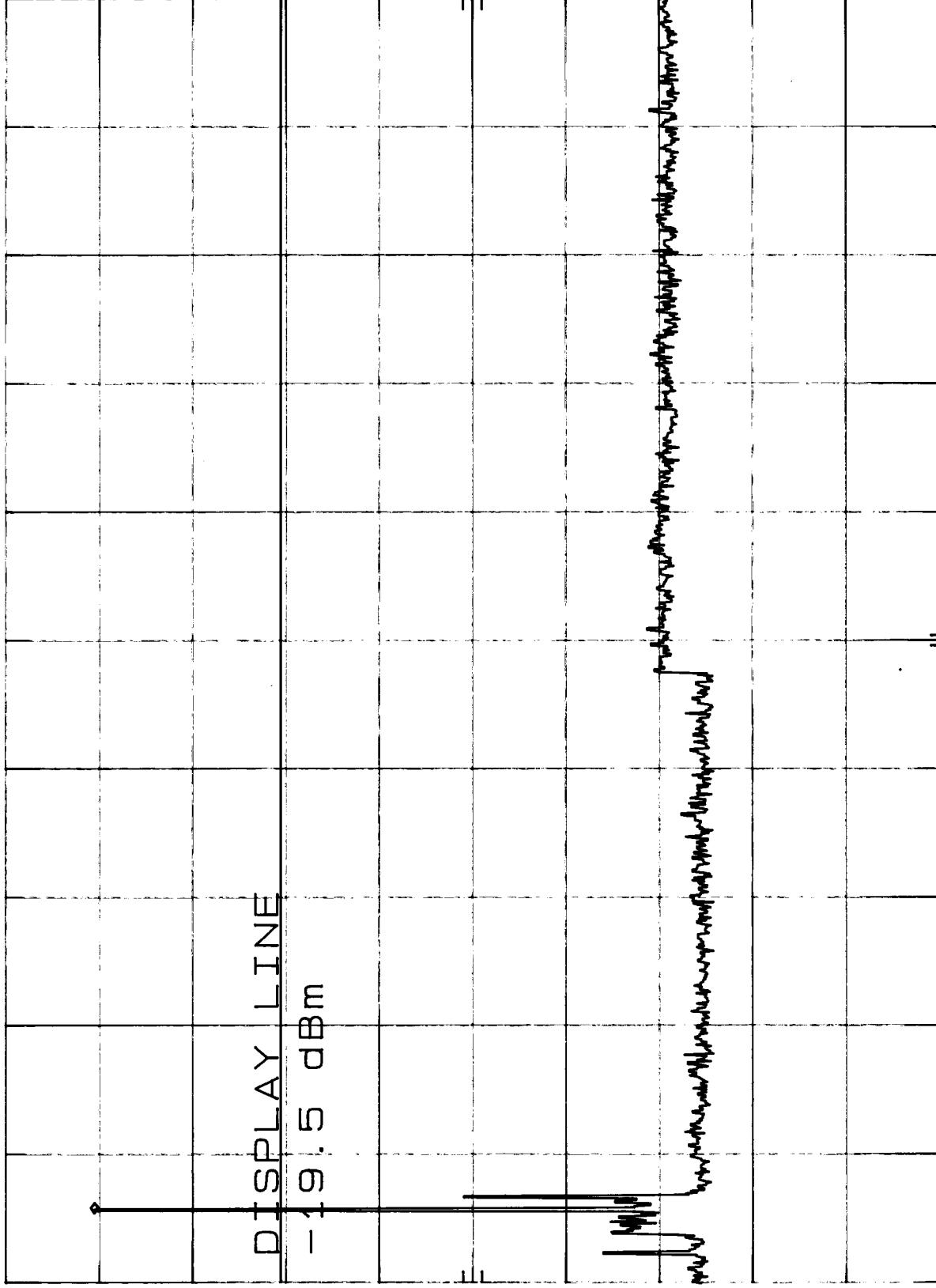
10 dB/

DISPLAY LINE

-19.5 dBm

DL
-19.5
dBm

CORR'D



START 2.00 GHZ RES BW 100 KHZ VBW 300 KHZ STOP 10.00 GHZ
SWP 2.40 sec

FCC ID'S: AMWUC650, AJXSG1000, AAO4301119

6-2-99

RF ANT. COND. TEST HANDSET 10-20 GHZ CH. 10 MKR 19.91 GHZ
REF 10.0 dBm ATTEN 20 dB -50.40 dBm

HP

10 dB/

MARKER

19.91 GHZ
-50.40 dBm

DL
-19.5
dBm

CORR'D

START 10.0 GHZ RES BW 100 KHZ STOP 20.0 GHZ
SWP 3.00 sec VBW 300 KHZ

FCC ID'S: AMWUC650, AJXSG1000, AAO4301119

6-2-99

RF ANT. COND. TEST HANDSET CH. 10 20-26 GHZ MKR 24.794 GHZ
REF 0.0 dBm HARMONIC 6L -74.10 dBm

HP

10 dB/

CNVLOSS

22.0

dB

DL

-19.5

dBm

MARKER

24.794 GHZ

-74.10 dBm

START 20.00 GHZ

RES BW 100 KHZ

VBW 300 KHZ

STOP 26.00 GHZ

SWP 1.80 sec

FCC ID'S: AMWUC650, AJXSG1000, AAO4301119

6-2-99

RF ANT. COND. TEST HANDSET 2MHZ-2GHZ CH. 20 MKR 1.902 GHZ
REF 10.0 dBm ATTEN 20 dB -52.20 dBm

hp

10 dB/

MARKER

1.902 GHZ
-52.20 dBm

DL
-17.6
dBm

CORR'D

START 2 MHZ RES BW 100 KHZ STOP 2.00 GHZ
VBW 300 KHZ SWP 599 msec

FCC ID'S: AMWUC650, AJXSG1000, AAO4301119

RF ANT. COND. TEST HANDSET CH. 20 2-10GHZ MKR 2.472 GHZ
REF 10.0 dBm ATTEN 20 dB 2.40 dBm

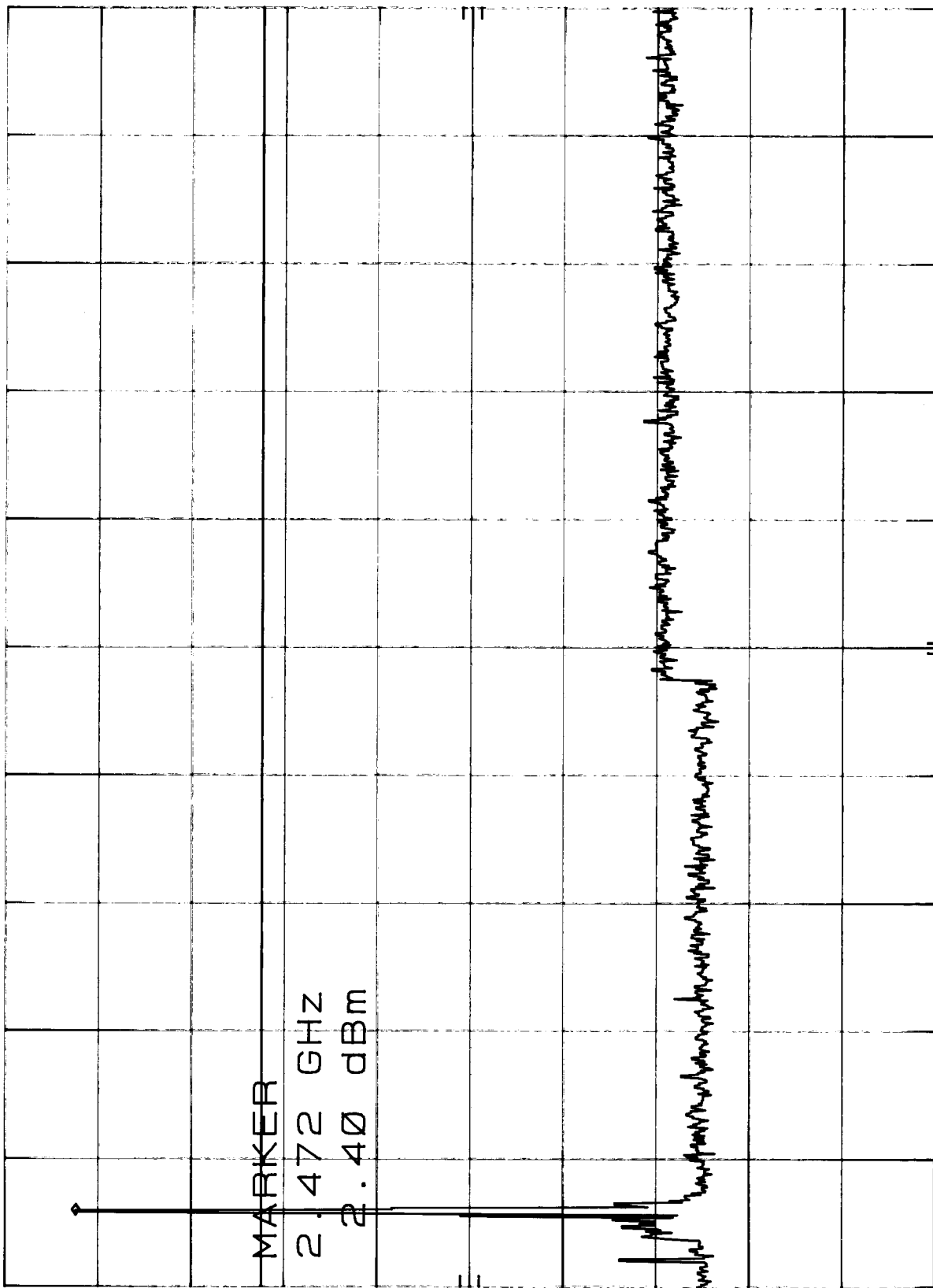
hp

10 dB/

MARKER

DL
2.472 GHZ
-17.6
dBm

CORR'D



START 2.00 GHZ STOP 10.00 GHZ
RES BW 100 KHZ SWP 2.40 sec
VBW 300 KHZ

FCC ID'S: AMWUC650, AJXSG1000, AAO4301119

6-2-99

RF ANT. COND. TEST HANDSET CH. 20 10-20 GHZ MKR 18.82 GHZ
REF 10.0 dBm ATTEN 20 dB -49.90 dBm

hp

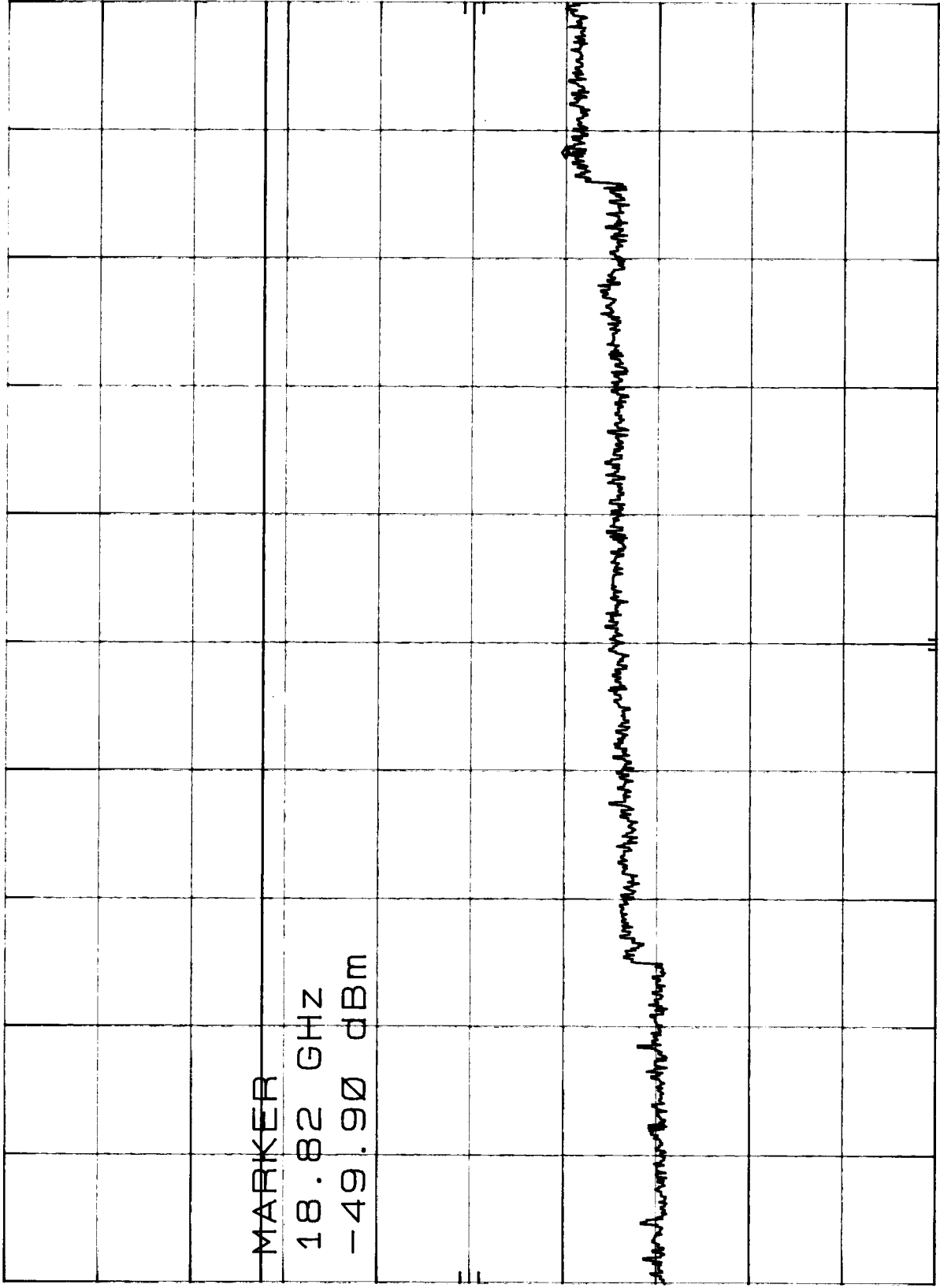
10 dB/

MARKER

18.82 GHZ
-49.90 dBm

DL
-17.6
dBm

CORR'D



START 10.0 GHZ RES BW 100 KHZ VBW 300 KHZ STOP 20.0 GHZ
SWP 3.00 sec

FCC ID'S: AMWUC650, AJXSG1000, AAO4301119

6-2-99

RF ANT. COND. TEST HANDSET CH. 20 20-26GHZ MKR 25.754 GHZ
REF 0.0 dBm HARMONIC 8L -61.50 dBm

hp

10 dB/

CNVLOSS

22.0

dB

MARKER

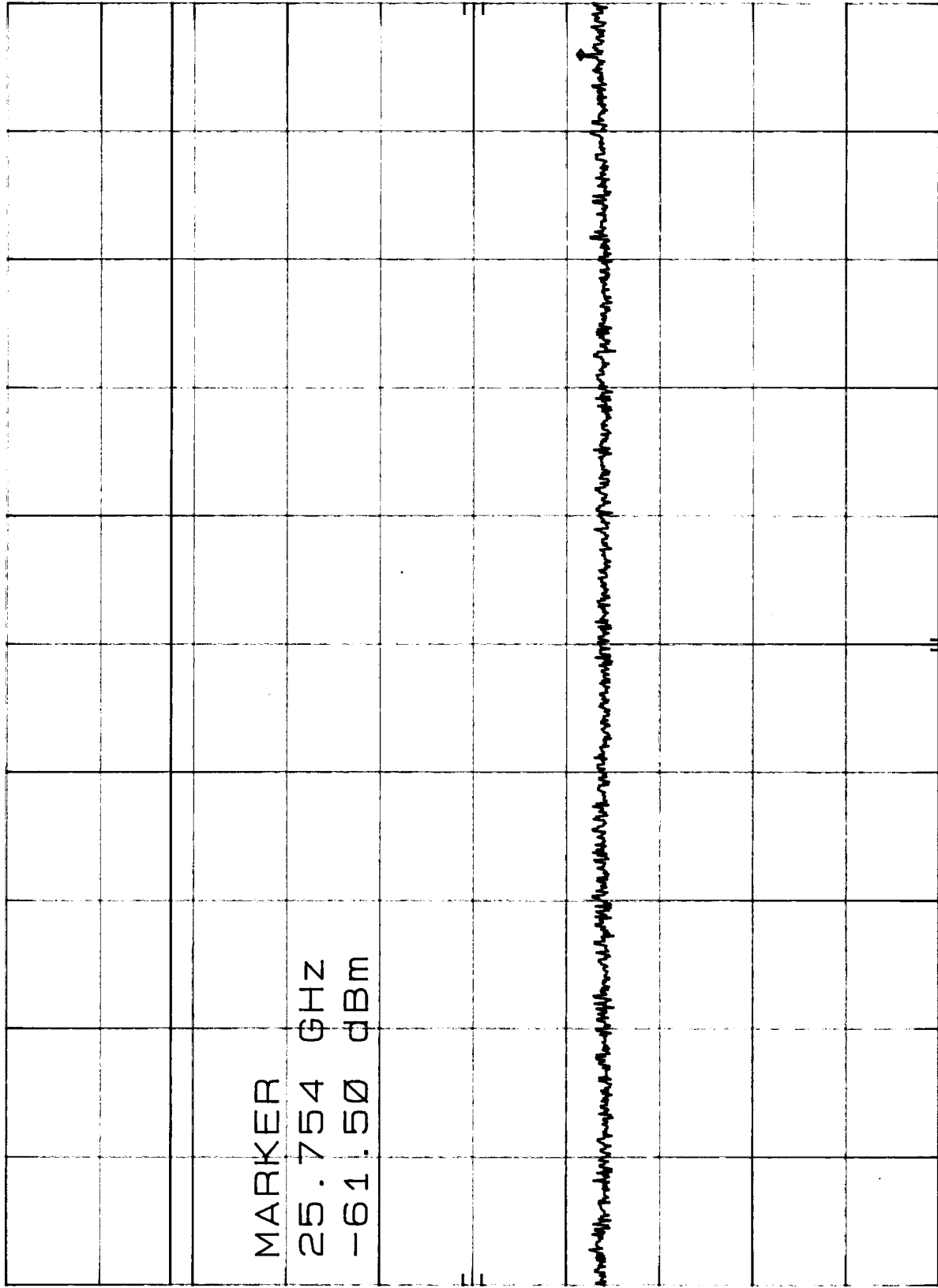
25.754 GHZ

-61.50 dBm

DL

-17.6

dBm



START 20.00 GHZ

RES BW 100 KHZ

VBW 300 KHZ

STOP 26.00 GHZ

SWP 1.80 sec



**COMPATIBLE
ELECTRONICS**

FCC ID'S: AMWUC650, AJXSG1000, AAO4301119
Report Number: B90603D1



***RF BAND EDGES
FOR THE HANDSET***



114 OLINDA DRIVE, BREA, CALIFORNIA 92823 PHONE: (714) 579-0500 FAX: (714) 579-1850

FCC ID'S: AMWUC650, AJXSG1000, AAO4301119

6-1-99

BAND EDGE OF HANDSET AT 2400.00 MHz

MR 2.400 07 GHz

REF 97.0 dBμV ATTN 0 dB

30.80 dBμV

hp

10 dB/

MARKER

2.400 07 GHz

30.80 dBμV

DL
48.0
dBμV

LOW CHANNEL

CORR'D

CENTER 2.424 6 GHz

RES BW 1 MHz

VBW 1 MHz

SPAN 74.4 MHz

SWP 20.0 msec

FCC ID'S: AMWUC650, AJXSG1000, AAO4301119

BAND EDGE OF HANDSET AT 2483.50 MHz

MR 2.483 50 GHz

REF 117.0 dBμV ATTN 20 dB

57.40 dBμV

HP

10 dB/

MARKER

2.483 50 GHz

57.40 dB

DL

55.0

dBμV

CORR'D

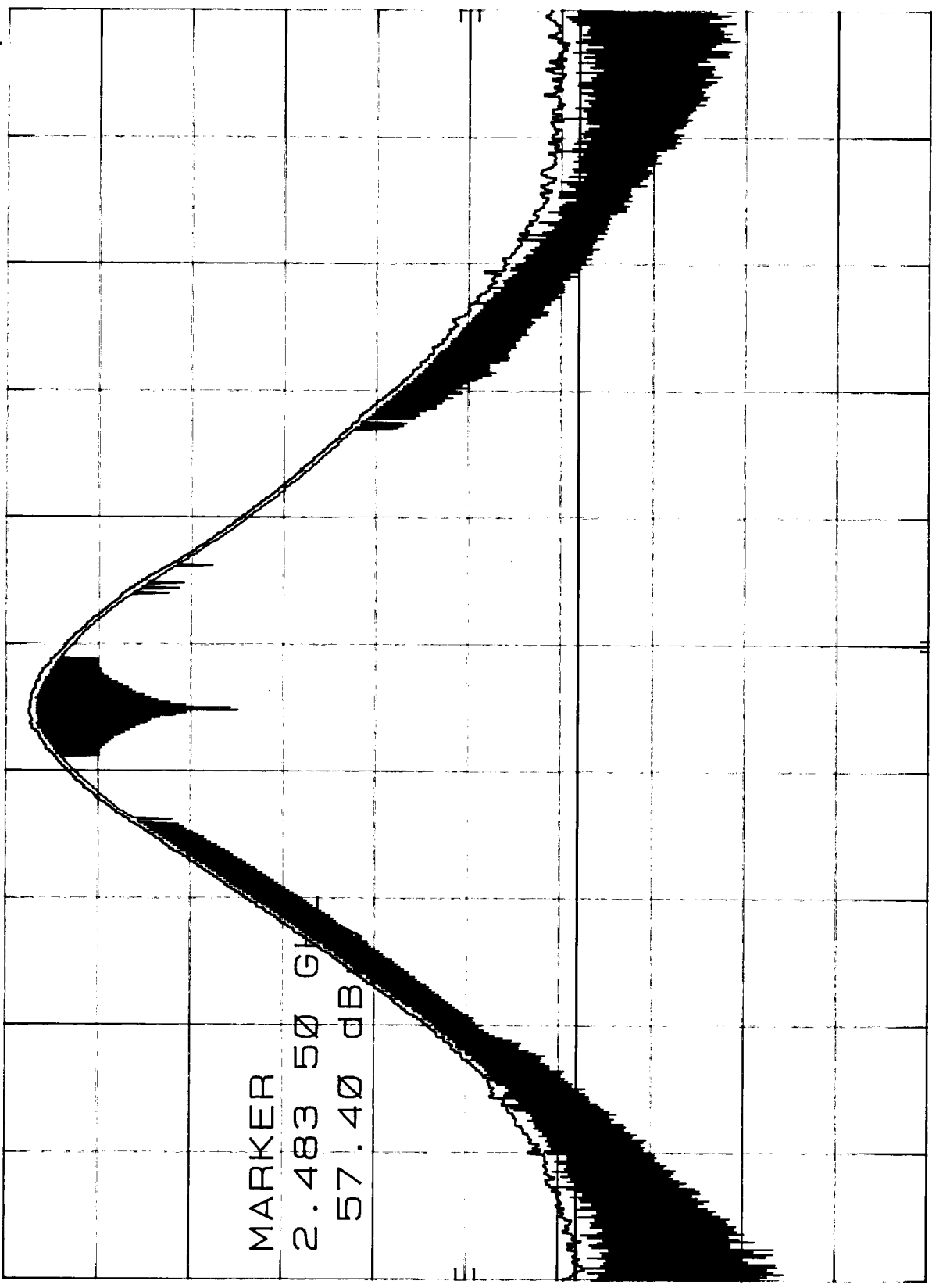
CENTER 2.476 6 GHz

RES BW 1 MHz

VBW 1 MHz

SPAN 15.0 MHz

SWP 20.0 msec





RADIATED EMISSIONS (FCC SECTION 15.247)

[illegible]

* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS + AMPLIFIER GAIN

*** DELTA = SPEC LIMIT - CORRECTED READING

*** BELOW 1 GHz, QUASI-PEAK MEASUREMENT IS EMPLOYED, ABOVE 1 GHz, AVERAGE MEASUREMENT IS EMPLOYED

"--" NO EMISSIONS FOUND AT THIS FREQUENCY

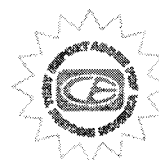


**COMPATIBLE
ELECTRONICS**

FCC ID'S: AMWUC650, AJXSG1000, AAO4301119
Report Number: B90603D1



***PROCESSING GAIN
DATA SHEETS FOR THE HANDSET***



114 OLINDA DRIVE, BREA, CALIFORNIA 92823 PHONE: (714) 579-0500 FAX: (714) 579-1850

FCC ID'S: AMWUC650, AJXSG1000, AAO4301119

PROCESSING GAIN WORKSHEET

CHANNEL 10 (2464.40 MHz) - Handset output to base station input

LOSSES

						Attenuation	30.5
						Combiner Loss	3.6
						Cable Loss (TX Out)	1.1
						System Loss	2
						S/N ratio	8
Jammer Freq. (MHz)	Transmitter Output (dBm)	Signal Level (dBm)	CW Noise (dBm)	Mj J/S ratio (dB)	Processing Gain (dBm)		
2463.40	-7.80	-43.00	-38.70	4.30	14.30		
2463.45	-7.80	-43.00	-39.20	3.80	13.80		
2463.50	-7.80	-43.00	-40.10	2.90	12.90		
2463.55	-7.80	-43.00	-40.50	2.50	12.50		
2463.60	-7.80	-43.00	-40.90	2.10	12.10		
2463.65	-7.80	-43.00	-41.20	1.80	11.80		
2463.70	-7.80	-43.00	-41.10	1.90	11.90		
2463.75	-7.80	-43.00	-39.50	3.50	13.50		
2463.80	-7.80	-43.00	-40.60	2.40	12.40		
2463.85	-7.80	-43.00	-41.20	1.80	11.80		
2463.90	-7.80	-43.00	-40.10	2.90	12.90		
2463.95	-7.80	-43.00	-39.70	3.30	13.30		
2464.00	-7.80	-43.00	-37.20	5.80	15.80		
2464.05	-7.80	-43.00	-38.60	4.40	14.40		
2464.10	-7.80	-43.00	-40.50	2.50	12.50		
2464.15	-7.80	-43.00	-41.20	1.80	11.80		
2464.20	-7.80	-43.00	-41.50	1.50	11.50		
2464.25	-7.80	-43.00	-41.60	1.40	11.40		
2464.30	-7.80	-43.00	-41.40	1.60	11.60		
2464.35	-7.80	-43.00	-42.40	0.60	10.60		
2464.40	-7.80	-43.00	-41.90	1.10	11.10		

Signal Level = Level of Transmitter
Output after the Combiner

CW Noise = Level of Jamming Singal
After the Combiner

Mj J/S ratio = CW Noise - Signal Level

Processing Gain =
Mj J/S ratio + System Loss + S/N ratio.

PROCESSING GAIN WORKSHEET

CHANNEL 10 (2464.40 MHz) - Handset output to base station input

LOSSES

Jammer Freq. (MHz)	Transmitter Output (dBm)	Signal Level (dBm)	CW Noise. (dBm)	Mj J/S ratio (dB)	Processing Gain (dBm)	Attenuation Combiner Loss Cable Loss (TX Out) System Loss S/N ratio	30.5 3.6 1.1 2 8
2464.45	-7.80	-43.00	-42.10	0.90	10.90		
2464.50	-7.80	-43.00	-41.70	1.30	11.30		
2464.55	-7.80	-43.00	-41.30	1.70	11.70		
2464.60	-7.80	-43.00	-40.50	2.50	12.50		
2464.65	-7.80	-43.00	-41.60	1.40	11.40		
2464.70	-7.80	-43.00	-41.00	2.00	12.00	Signal Level = Level of Transmitter Output after the Combiner	
2464.75	-7.80	-43.00	-41.80	1.20	11.20		
2464.80	-7.80	-43.00	-42.50	0.50	10.50		
2464.85	-7.80	-43.00	-41.50	1.50	11.50	CW Noise = Level of Jamming Singal After the Combiner	
2464.90	-7.80	-43.00	-40.60	2.40	12.40		
2464.95	-7.80	-43.00	-41.20	1.80	11.80		
2465.00	-7.80	-43.00	-41.50	1.50	11.50	Mj J/S ratio = CW Noise - Signal Level	
2465.05	-7.80	-43.00	-39.90	3.10	13.10		
2465.10	-7.80	-43.00	-39.20	3.80	13.80	Processing Gain =	
2465.15	-7.80	-43.00	-41.40	1.60	11.60	Mj J/S ratio + System Loss + S/N ratio.	
2465.20	-7.80	-43.00	-41.20	1.80	11.80		
2465.25	-7.80	-43.00	-41.50	1.50	11.50		
2465.30	-7.80	-43.00	-42.00	1.00	11.00		
2465.35	-7.80	-43.00	-41.30	1.70	11.70		
2465.40	-7.80	-43.00	-41.00	2.00	12.00		
2465.45	-7.80	-43.00	-41.10	1.90	11.90		