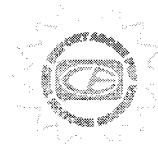


APPENDIX D

DATA SHEETS





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



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



COMPATIBLE
ELECTRONICS

2/09/2000

8:38:22

SANYO

2.4 GHz SPREAD SPEC. PHONE

MODEL: CLT-2420

FCC C - 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

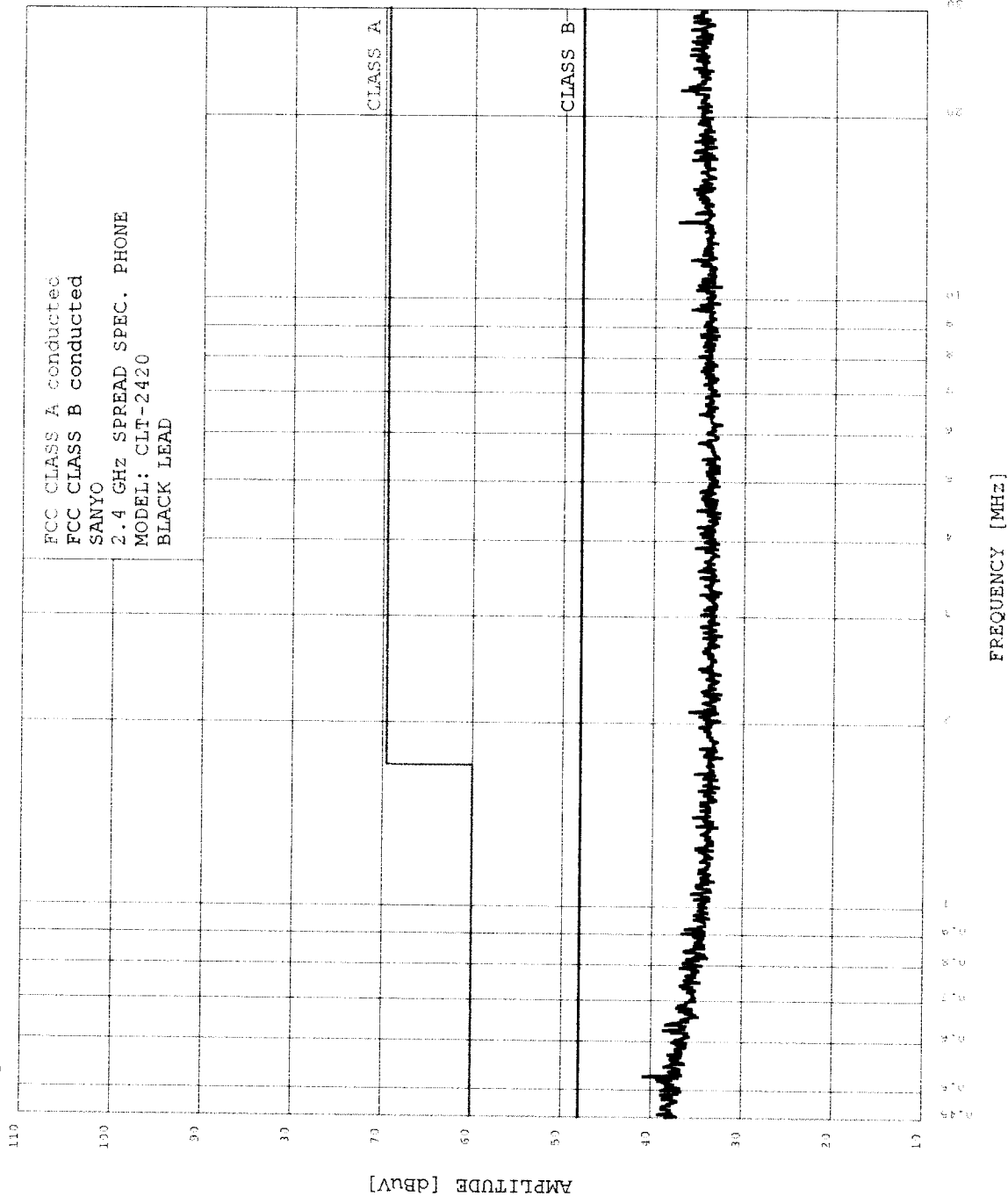
Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.526	40.70	48.00	-7.30
2	0.522	39.20	48.00	-8.80
3	0.456	39.10	48.00	-8.90
4	0.517	39.10	48.00	-8.90
5	0.492	38.80	48.00	-9.20
6	0.466	38.70	48.00	-9.30
7	0.500	38.70	48.00	-9.30
8	0.484	38.60	48.00	-9.40
9	0.627	38.50	48.00	-9.50
10	0.546	38.40	48.00	-9.60
11	0.641	38.30	48.00	-9.70
12	0.509	38.20	48.00	-9.80
13	0.572	38.00	48.00	-10.00
14	0.537	37.90	48.00	-10.10
15	0.563	37.80	48.00	-10.20
16	0.599	37.60	48.00	-10.40
17	0.622	37.60	48.00	-10.40
18	0.558	37.50	48.00	-10.50
19	13.406	37.33	48.00	-10.67
20	0.581	37.20	48.00	-10.80



COMPATIBLE
ELECTRONICS

2/09/2000 8:38:22

EMISSION LEVEL [dBuV] PEAK
Graph for Peak





**COMPATIBLE
ELECTRONICS**

2/09/2000

8:45:43

SANYO

2.4 GHz SPREAD SPEC. PHONE

MODEL: CLT-2420

FCC C - 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	13.406	37.94	48.00	-10.06
2	0.643	37.37	48.00	-10.63
3	29.275	36.86	48.00	-11.14
4	21.439	36.47	48.00	-11.53
5	19.798	36.46	48.00	-11.54
6	15.198	36.27	48.00	-11.73
7	22.097	36.12	48.00	-11.88
8	24.748	36.11	48.00	-11.89
9	27.825	36.07	48.00	-11.93
10	28.792	36.06	48.00	-11.94
11	22.942	36.03	48.00	-11.97
12	16.956	36.00	48.00	-12.00
13	9.905	35.98	48.00	-12.02
14	21.815	35.97	48.00	-12.03
15	11.717	35.91	48.00	-12.09
16	28.550	35.87	48.00	-12.13
17	29.637	35.85	48.00	-12.15
18	23.522	35.82	48.00	-12.18
19	14.334	35.80	48.00	-12.20
20	22.378	35.77	48.00	-12.23

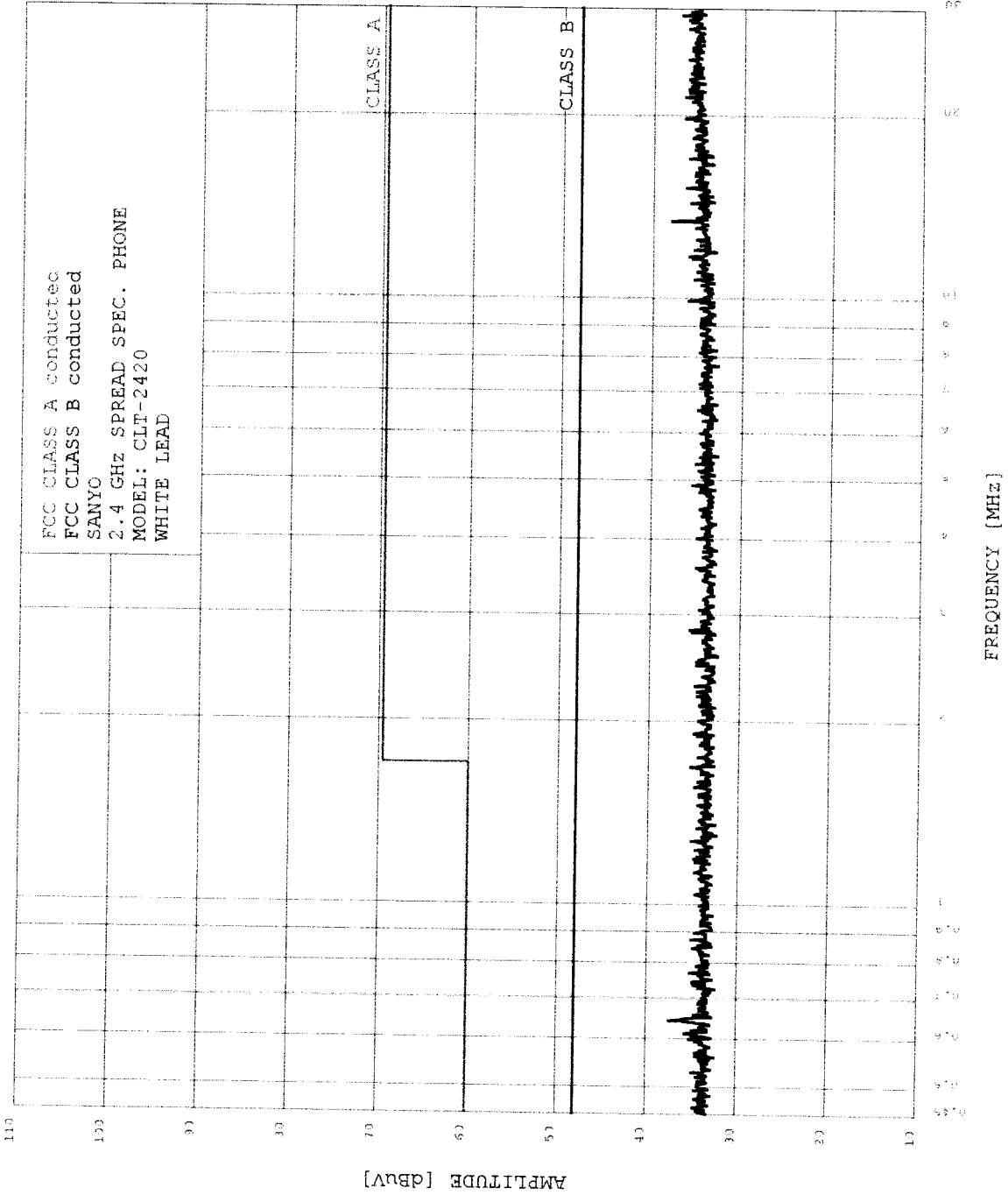


COMPATIBLE
ELECTRONICS

EMISSION LEVEL [dBuV] PEAK
Graph for Peak

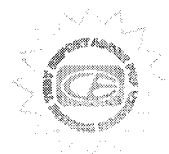
2/09/2000

8:45:43





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



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

RADIATED EMISSIONS (FCC SECTION 15.205 AND 15.247)

COMPANY	SANYO	DATE	2/16/00
EUT	2.4 GHz SPREAD SPECTRUM CORDLESS PHONE - BASE	DUTY CYCLE	50.00 %
MODEL	CLT-2420	PEAK TO AVG	-6.02 dB
S/N	N/A	TEST DIST.	3 METERS
TEST ENGINEER	KYLE FUJIMOTO	LAB	D

Frequency MHz	Peak Reading (dBuV)	Average (A) or Quasi- Peak (QP)	Antenna Polar. (V or H)	Antenna Height (meters)	EUT Azimuth (degrees)	EUT Axis (X,Y,Z)	EUT Tx Channel	Antenna Factor (dB)	Cable Loss (dB)	Amplifier Gain (dB)	*Corrected Reading (dBuV/m)	Delta ** (dB)	Spec Limit (dBuV/m)	Comments
2407.0000	71.8	65.8 A	H	1.0	180	X	LOW	28.2	4.5	0.0	98.5	98.5	0.0	
2407.0000	78.8	72.8 A	V	3.0	90	X	LOW	28.2	4.5	0.0	105.5	105.5	0.0	
2437.6000	71.2	65.2 A	H	1.0	180	X	MID	28.2	4.5	0.0	97.9	97.9	0.0	
2437.6000	77.8	71.8 A	V	3.0	90	X	MID	28.2	4.5	0.0	104.5	104.5	0.0	
2466.4100	70.8	64.8 A	H	1.0	180	X	HIGH	28.2	4.5	0.0	97.5	97.5	0.0	
2466.4100	77.7	71.7 A	V	3.0	180	X	HIGH	28.2	4.5	0.0	104.4	104.4	0.0	

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

** DELTA = SPEC LIMIT - CORRECTED READING

RADIATED EMISSIONS (FCC SECTION 15.205 AND 15.247)

COMPANY	SANYO	DATE	2/16/00
EUT	2.4 GHz SPREAD SPECTRUM CORDLESS PHONE - BASE	DUTY CYCLE	50.00 %
MODEL	CLT-2420	PEAK TO AVG	-6.02 dB
S/N	N/A	TEST DIST.	3 METERS
TEST ENGINEER	KYLE FUJIMOTO	LAB	D

Frequency MHz	Peak Reading (dBuV)	Average (A) or Quasi- Peak (QP)	Antenna Polar. (V or H)	Antenna Height (meters)	EUT Azimuth (degrees) (X,Y,Z)	EUT Axis	EUT Tx Channel	Antenna Factor (dB)	Cable Loss (dB)	Amplifier Gain (dB)	*Corrected Reading (dBuV/m)	Delta ** (dB)	Spec Limit (dBuV/m)	Comments
4814.0000	38.9	32.9 A	H	1.0	180	X	LOW	32.3	5.7	34.3	36.6	-17.4	54.0	
4814.0000	36.4	30.4 A	V	1.5	180	X	LOW	32.3	5.7	34.3	34.1	-19.9	54.0	
4875.2000	39.8	33.8 A	H	1.5	180	X	MID	32.3	5.7	34.3	37.5	-16.5	54.0	
4875.2000	48.8	42.8 A	V	1.0	90	X	MID	32.3	5.7	34.3	46.5	-7.5	54.0	
4932.8200	40.5	34.5 A	H	3.0	180	X	HIGH	32.3	5.7	31.1	41.4	-12.6	54.0	
4932.8200	41.3	35.3 A	V	2.0	180	X	HIGH	32.3	5.7	31.1	42.2	-11.8	54.0	

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

** DELTA = SPEC LIMIT - CORRECTED READING

RADIATED EMISSIONS (FCC SECTION 15.205 AND 15.247)

COMPANY	SANYO	DATE	2/16/00
EUT	2.4 GHz SPREAD SPECTRUM CORDLESS PHONE - BASE	DUTY CYCLE	50.00 %
MODEL	CLT-2420	PEAK TO AVG	-6.02 dB
S/N	N/A	TEST DIST.	3 METERS
TEST ENGINEER	KYLE FUJIMOTO	LAB	D

Frequency MHz	Peak Reading (dBuV)	Average (A) or Quasi- Peak (QP)	Antenna Polar. (V or H)	Antenna Height (meters)	EUT Azimuth (degrees)	EUT Axis (X,Y,Z)	EUT Tx Channel	Antenna Factor (dB)	Cable Loss (dB)	Amplifier Gain (dB)	*Corrected Reading (dBuV/m)	Delta ** (dB)	Spec Limit (dBuV/m)	Comments
7221.0000	40.7	34.7 A	H	1.0	270	X	LOW	36.8	6.4	32.9	45.0	-9.0	54.0	
7221.0000	37.5	31.5 A	V	1.0	0	X	LOW	36.8	6.4	32.9	41.8	-12.2	54.0	
7312.8000	39.9	33.9 A	H	1.0	180	X	MID	36.8	6.4	32.9	44.2	-9.8	54.0	
7312.8000	42.3	36.3 A	V	1.0	180	X	MID	36.8	6.4	32.9	46.6	-7.4	54.0	
7399.2300	41.3	35.3 A	H	1.0	270	X	HIGH	36.8	6.4	32.9	45.6	-8.4	54.0	
7399.2300	38.9	32.9 A	V	1.0	180	X	HIGH	36.8	6.4	32.9	43.2	-10.8	54.0	

* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN
 ** DELTA = SPEC LIMIT - CORRECTED READING

Note: No Harmonics nor emissions found
 after the 3rd harmonic

Test location: Compatible Electronics

Customer : SANYO

Date : 2/14/2000

Manufacturer : UNIDEN CORPORATION

Time : 13.21

EUT name : 2.4 GHz PHONE

Model: CLT-2420

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 55 DEGREES F.

RELATIVE HUMIDITY 89%

TESTED BY: Kyle Fujimoto

KYLE FUJIMOTO

NO EMISSIONS FOUND FROM 10 KHZ TO 30 MHZ IN
EITHER POLARIZATION FOR THE BASE UNIT

Test location: Compatible Electronics

Customer : SANYO

Date : 2/14/2000

Manufacturer : UNIDEN CORPORATION

Time : 11.42

EUT name : 2.4 GHZ PHONE

Model: CLT-2420

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 55 DEGREES F.

RELATIVE HUMIDITY 89%

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	38.22	53.60	0.78	13.30	38.55	29.13	40.00	-10.87
2V	47.56	59.30	0.88	12.75	38.68	34.25	40.00	-5.75
3V	49.31	60.40	0.89	12.70	38.69	35.30	40.00	-4.70
4V	45.69	50.80	0.86	12.80	38.66	25.80	40.00	-14.20
5V	52.87	53.30	0.87	12.40	38.73	27.85	40.00	-12.15
6V	54.71	56.80	0.85	12.23	38.75	31.13	40.00	-8.87
7V	58.27	50.40	0.82	11.89	38.78	24.32	40.00	-15.68
8V	56.50	52.60	0.83	12.06	38.77	26.73	40.00	-13.27
9V	60.08	48.60	0.80	11.72	38.80	22.32	40.00	-17.68
10V	69.97	46.50	1.00	11.34	38.90	19.94	40.00	-20.06
11V	86.93	44.40	1.14	10.09	38.66	16.97	40.00	-23.03
12V	119.14	47.20	1.38	12.48	38.75	22.30	43.50	-21.20
13V	137.84	49.60	1.50	12.62	38.75	24.97	43.50	-18.53
14V	217.16	45.00	1.87	16.29	38.74	24.42	46.00	-21.58
15V	300.77	47.10	2.30	15.41	38.60	26.22	46.00	-19.78
16V	340.17	41.00	2.54	15.63	38.60	20.57	46.00	-25.43
17V	361.63	43.20	2.62	15.23	38.60	22.46	46.00	-23.54
18V	406.53	46.50	2.71	14.00	38.53	24.68	46.00	-21.32
19V	518.53	48.90	3.29	16.96	38.38	30.76	46.00	-15.24

Test location: Compatible Electronics

Customer : SANYO

Date : 2/14/2000

Manufacturer : UNIDEN CORPORATION

Time : 12.12

EUT name : 2.4 GHZ PHONE

Model: CLT-2420

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 55 DEGREES F.

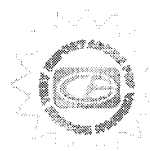
RELATIVE HUMIDITY 89%

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	40.35	54.30	0.80	12.95	38.60	29.45	40.00	-10.55
2H	46.08	40.10	0.86	12.79	38.66	15.09	40.00	-24.91
3H	49.97	44.40	0.90	12.68	38.70	19.28	40.00	-20.72
4H	52.88	49.60	0.87	12.40	38.73	24.15	40.00	-15.85
5H	54.69	47.50	0.85	12.23	38.75	21.84	40.00	-18.16
6H	56.51	51.30	0.83	12.05	38.77	25.42	40.00	-14.58
7H	67.86	58.00	0.96	11.42	38.88	31.50	40.00	-8.50
8H	74.40	40.90	1.00	10.85	38.86	13.89	40.00	-26.11
9H	111.00	44.40	1.34	11.74	38.69	18.80	43.50	-24.70
10H	336.10	43.10	2.52	15.60	38.60	22.62	46.00	-23.38
11H	411.74	41.90	2.72	14.19	38.48	20.33	46.00	-25.67
12H	534.61	40.30	3.45	17.03	38.80	21.97	46.00	-24.03

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



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

2-9-00
MKR Δ 1.399 MHz
0.80 dB

-6 dB BANDWIDTH OF BASE - CH. 1
REF 13.0 dBm ATTN 30 dB

HP

10 dB/

MARKER Δ

1.399 MHz

0.80 dB

DL

11.0
dBm

CORR'D

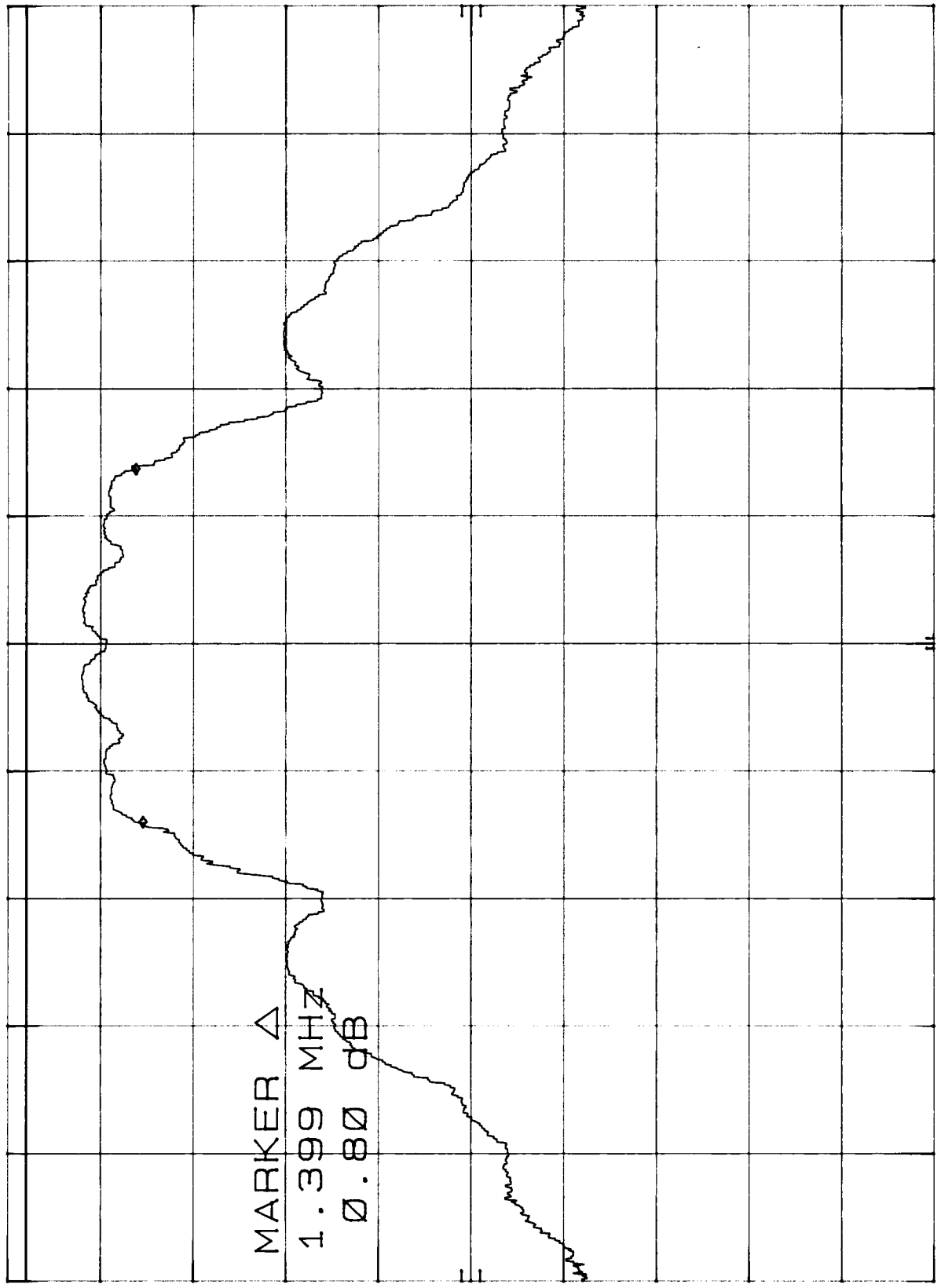
CENTER 2.406 93 GHz

RES BW 100 kHz

VBW 300 kHz

SPAN 5.05 MHz

SWP 20.0 msec



2-9-00

-6 dB BANDWIDTH OF BASE - MIDDLE CHANNEL(16) MKR Δ 1.385 MHz
REF 13.0 dBm ATTN 30 dB 0.20 dB

HP

10 dB/

MARKER Δ

1.385 MHz

0.20 dB

DL

-27.0
dBm

CORR'D

CENTER 2.437 59 GHz

RES BW 100 kHz

VBW 1 MHz

SPAN 5.00 MHz

SWP 20.0 msec

2-9-00

-6 dB BANDWIDTH OF BASE - CH. 30
REF 13.0 dBm ATTEN 30 dB

MR Δ 1.385 MHz
0.10 dB

hp

10 dB/

MARKER Δ

1.385 MHz

DL

-27.0
dBm

0.10 dB

CORR'D

CENTER 2.466 25 GHz

RES BW 100 kHz

VBW 300 kHz

SPAN 5.00 MHz

SWP 20.0 msec

