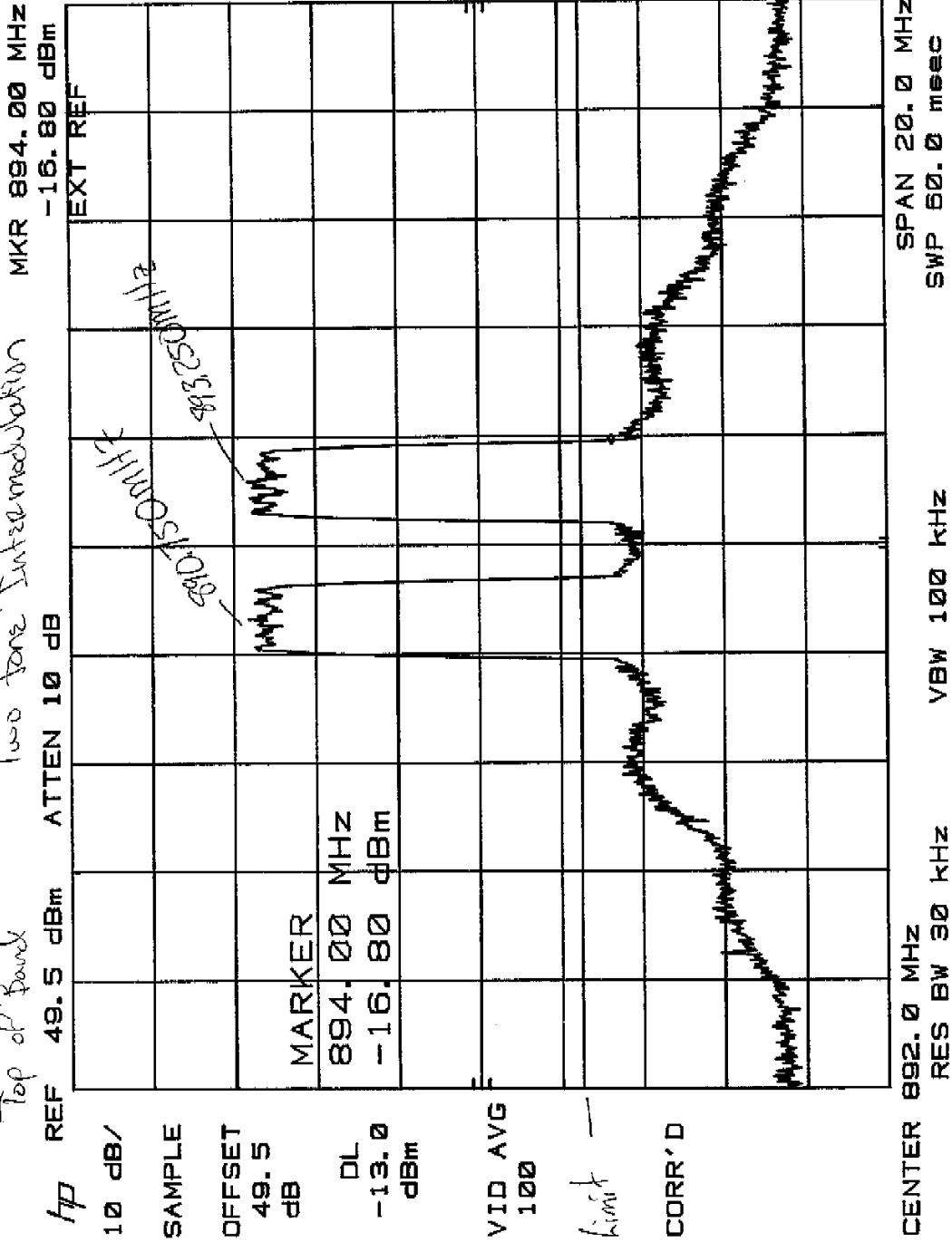


Paradigm Wireless Comm FCC ID OQ3MAP800-70S

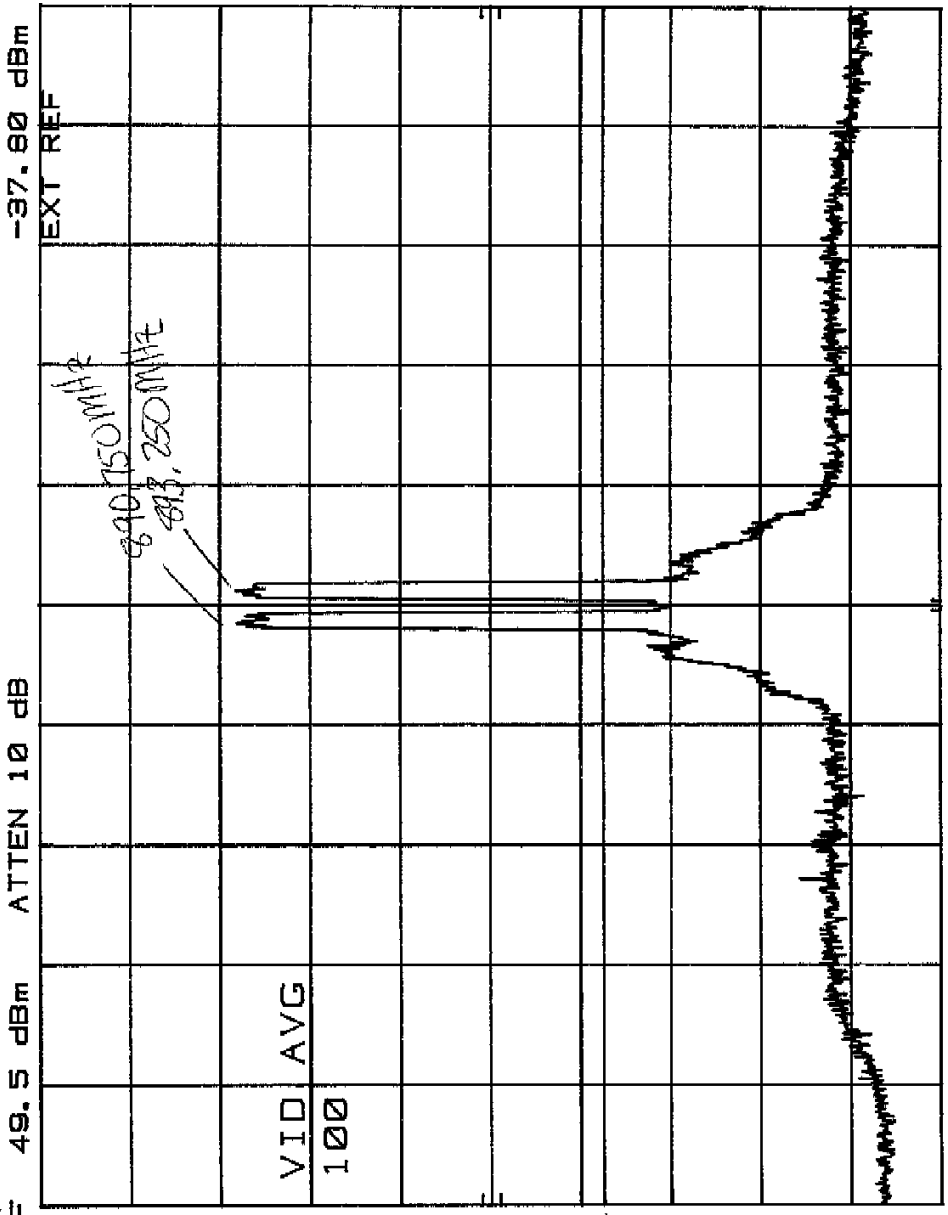
Top of Band Two tone Intermodulation



Paradigm Wireless Communications FCC ID OQ3MAP800-70S

Top of Band Two-tone Intermodulation

MKR 901.7 MHz
-37.80 dBm



HP

10 dB/

SAMPLE

OFFSET
49.5
dB

VID AVG

100

DL
-13.0
dBm

VID AVG
100

FCC limit

CORR'D

CENTER 892 MHz

RES BW 30 kHz

VBW 100 kHz

SPAN 100 MHz

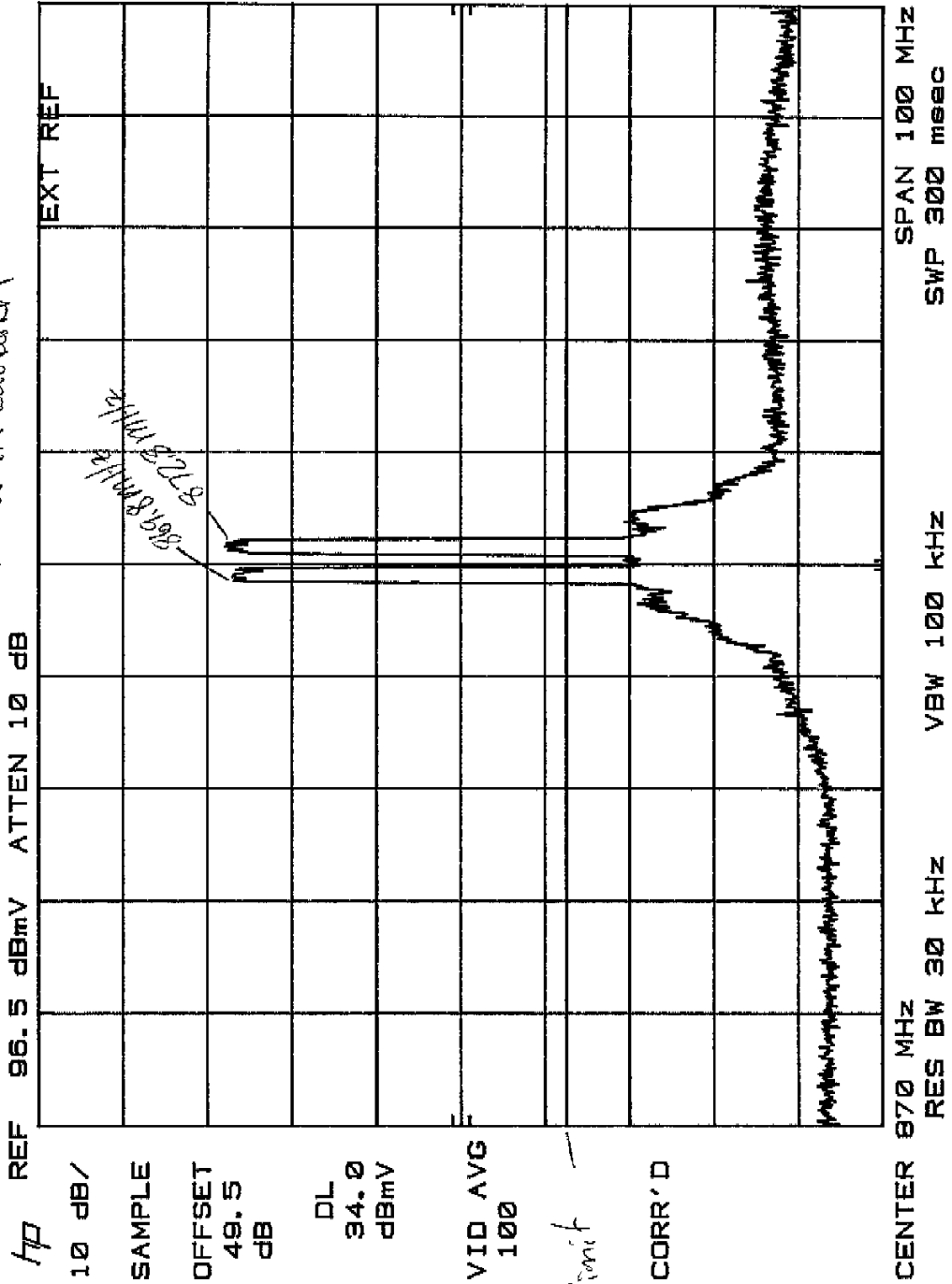
SWP 300 msec

REF 49.5 dBm

ATTEN 10 dB

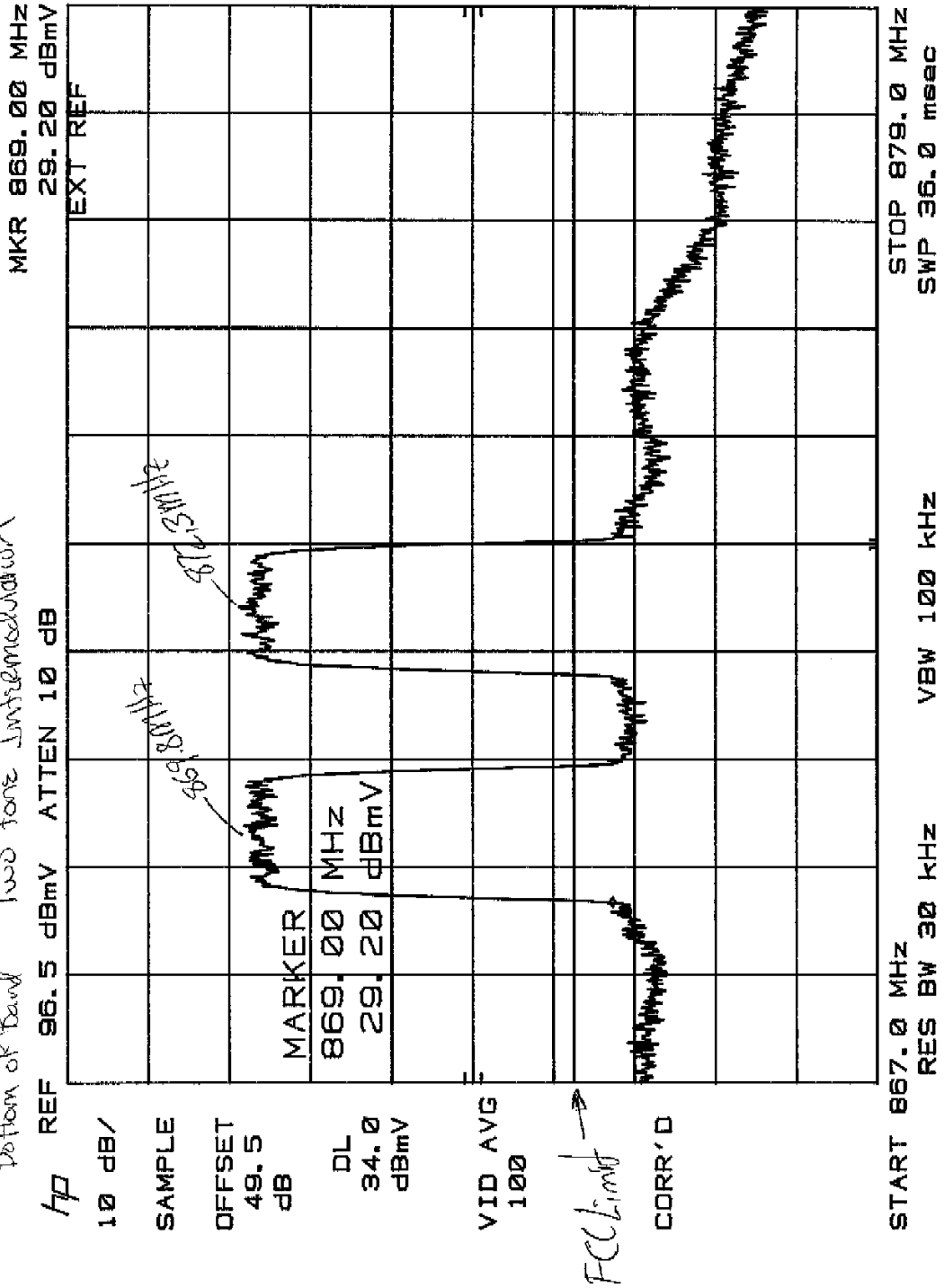
EXT REF

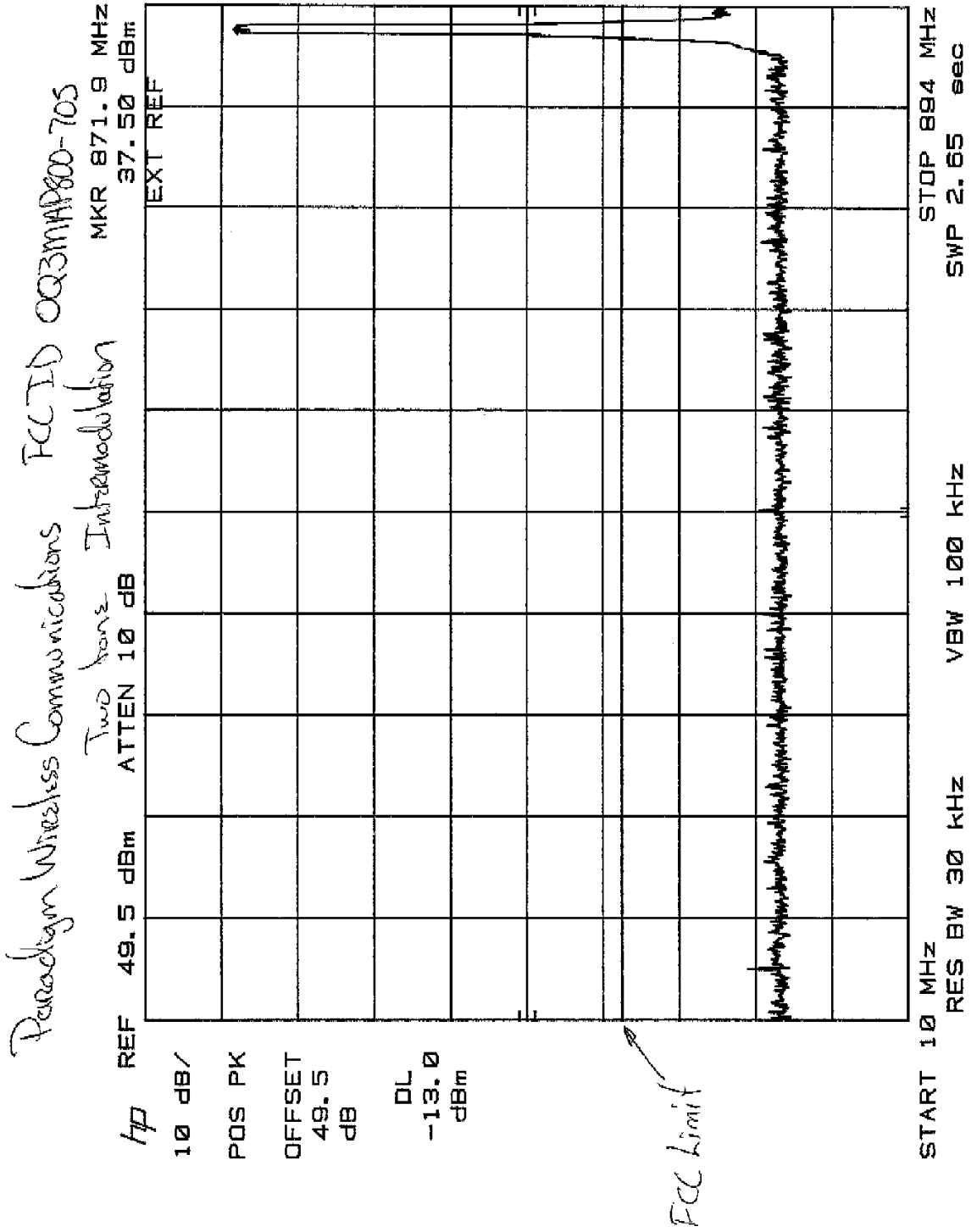
Paradigm Wireless Comm. FCC ID OQ3MAP800-70S
 Bottom of Band Two Tone Intermodulation



Paradigm Wireless Comm. FCC ID OQ3MAP800-705

Bottom of Band Two tone Intermodulation

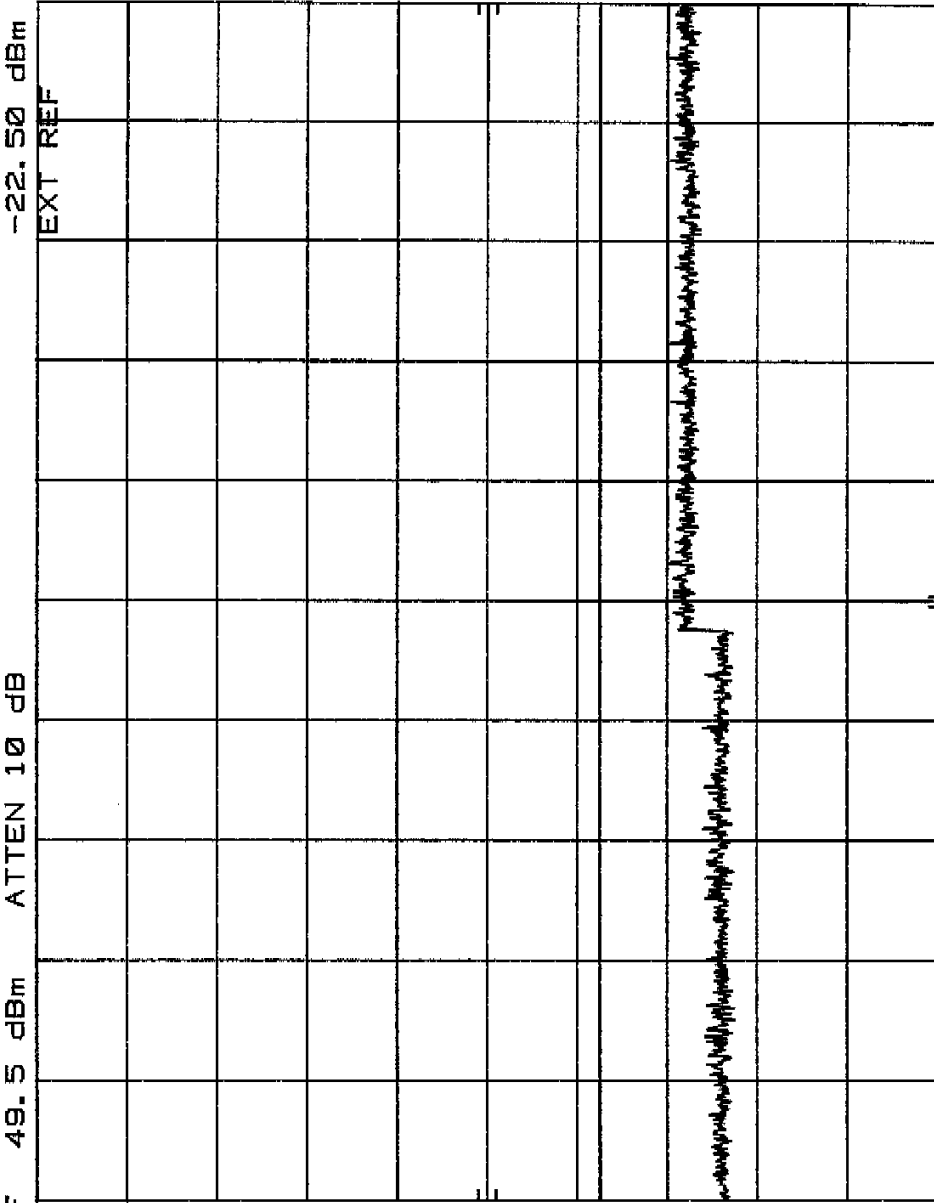




Paradigm Wireless Communications FCC ID OQ3MAP800-70S

Two tone Intermodulation

MKR 9.800 GHz
-22.50 dBm



HP REF 49.5 dBm

ATTEN 10 dB

10 dB/

POS PK

OFFSET

49.5 dB

DL

-13.0 dBm

FCC limit →

START 2.00 GHz

RES BW 100 kHz

VBW 300 kHz

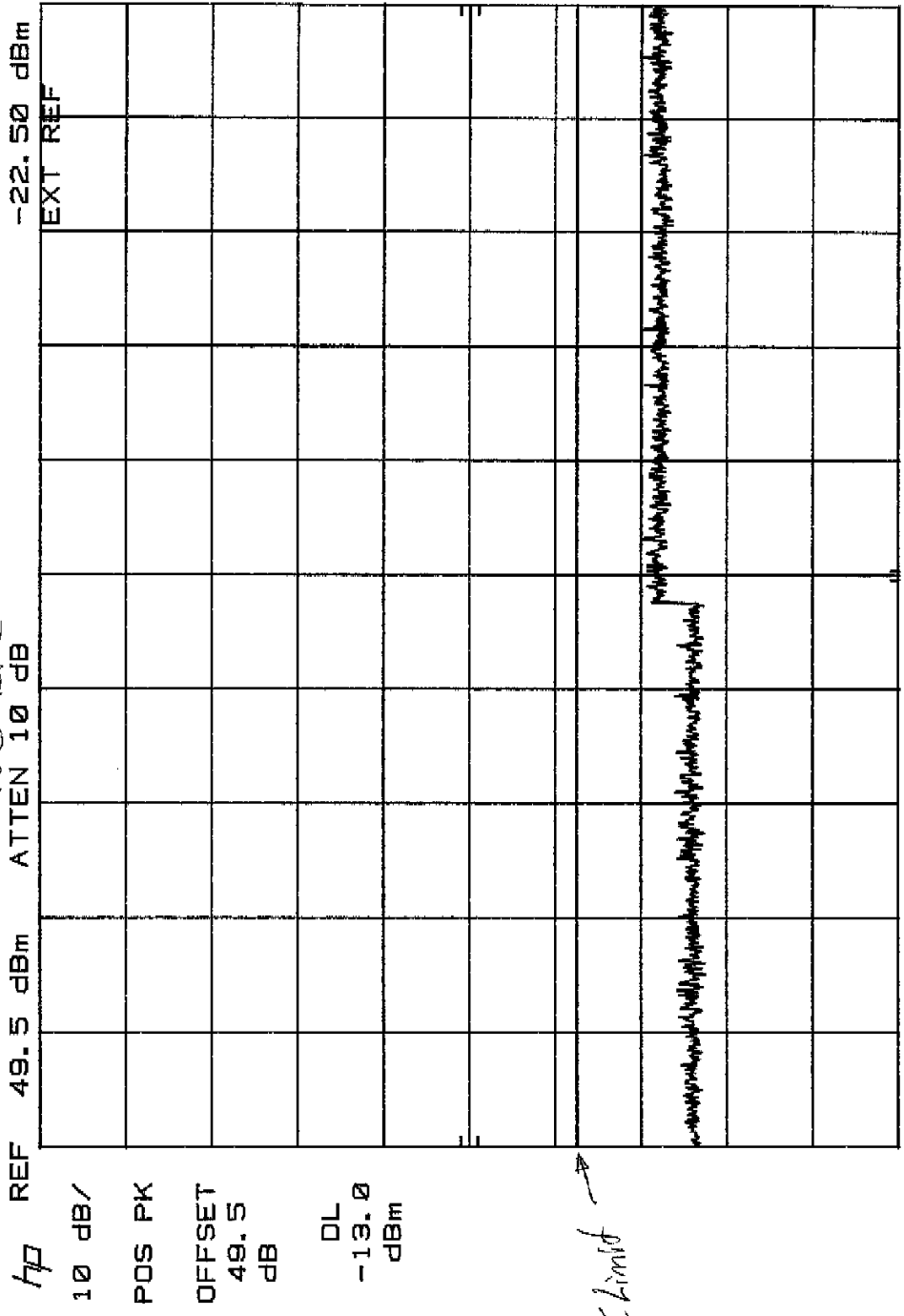
STOP 10.00 GHz

SWP 2.40 sec

Paradigm Wireless Communications FCC ID OQ3MAP800-70S

Two tone Intermodulation

MKR 9.800 GHz
-22.50 dBm



HP 10 dB/
POS PK
OFFSET 49.5 dB
DL -13.0 dBm

FCC limit →

2.1053 Field Strength of Spurious Radiation

Definition:

Emissions from the equipment when connected into a non-radiating load on a frequency or frequencies which are outside an occupied band sufficient to ensure transmission of information of required quality for the class of communication desired. The reduction in the level of these spurious emissions will not affect the quality of the information being transmitted.

Test Method: Per EIA RS 152-B.

Connect the equipment and follow the procedure described in paragraph 2.2.1.1 and paragraph 5.0. Measure the amplitude of each spurious radiated signal through the 10th harmonic. The level in dBuV/m is calculated on the following page. The spurious signals are then measured on the 3 meter range.

$$\text{Spurious attenuation dB} = 10 \log \frac{\text{Po Watts}}{\text{Calc. Spurious power}}$$

Test Results: See TABLE on following Page.

All radiated spurious emissions are below the FCC Specifications.

RF Exposure

The information contained in “Evaluating Compliance with FCC Guidelines for Human Exposure to Radio frequency Electromagnetic Fields”, OET Bulletin 65; August 1997 is applicable when a radiating antenna is connected to this amplifier. Paging stations that utilize this amplifier authorized under Part 22 (Subpart E) and Part 90 are subject to routine environmental evaluation for RF exposure if an antenna is located on a rooftop and if its ERP exceeds 1000 watts.

This product is certified to meet the RF exposure guidelines of OET-65 as a stand-alone RF power amplifier. The RF spurious emissions recorded when the antenna output connector is terminated into a non-radiating 50 ohm load do not exceed the 27.5 V/m limit specified for General Population/Uncontrolled Exposure in OET Bulletin 65.

DNB Engineering, Inc.
 SPURIOUS RADIATED SIGNAL MEASUREMENTS
 (Ref: Part 2, Subpart J, 2.1053 and 2.1057)

Date	5-Feb-01
Customer	Paradigm
EUT	RF Power Amplifier
P/N	MAP800-70S
S/N	N/A
Pass/Fail	PASS
Operating Mode	CDMA
Test Engineer	John Stanford
Fund. Freq.	880 MHz
Output Power	110 W
Output Impedance	50 ohms
Fund. Field Strength	24.7 V/m
Fund. Field Strength	147.9 dBuV/m
FCC Limit	63.4 dBc

Input Fields
Calculated Fields

Antenna Polarization	Freq (MHz)	Measured Signal (dBuV)	AF (dB/m)	Cable Loss (dB)	Amp Gain (dB)	Corrected Measurement (dBuV)	Fundamental Field Strength (dBuV/m)	Spurious Below Carrier (dBc)	FCC Limit (dBc)
V	1760	61.4	27.4	2.2	29.8	61.2	147.9	86.7	63.4
H	2640	42.4	28.7	2.5	32.2	41.4	147.9	106.5	63.4
H	3520	31.5	31.0	2.8	30.2	35.1	147.9	112.8	63.4
H	4400	38.0	32.9	3.6	28.4	46.1	147.9	101.8	63.4
H	5280	25.3	34.6	4.3	28.6	35.6	147.9	112.3	63.4
V	6160	18.3	35.3	4.6	29.3	28.9	147.9	119.0	63.4
H	7040	18.2	37.0	5.0	28.5	31.7	147.9	116.2	63.4
V	7920	18.1	37.0	5.4	28.5	32.0	147.9	115.9	63.4
H	8800	18.0	37.8	5.5	26.0	35.3	147.9	112.6	63.4

2.1055 Measurement of Frequency Stability

The EUT is a power amplifier and contains no circuitry for generating or stabilizing the RF signal. The driver will be responsible for this task.

2.1057 Frequency Spectrum to be Investigated

The Frequency was searched from the lowest radio frequency generated in the equipment through the 10th harmonic of the carrier frequency.