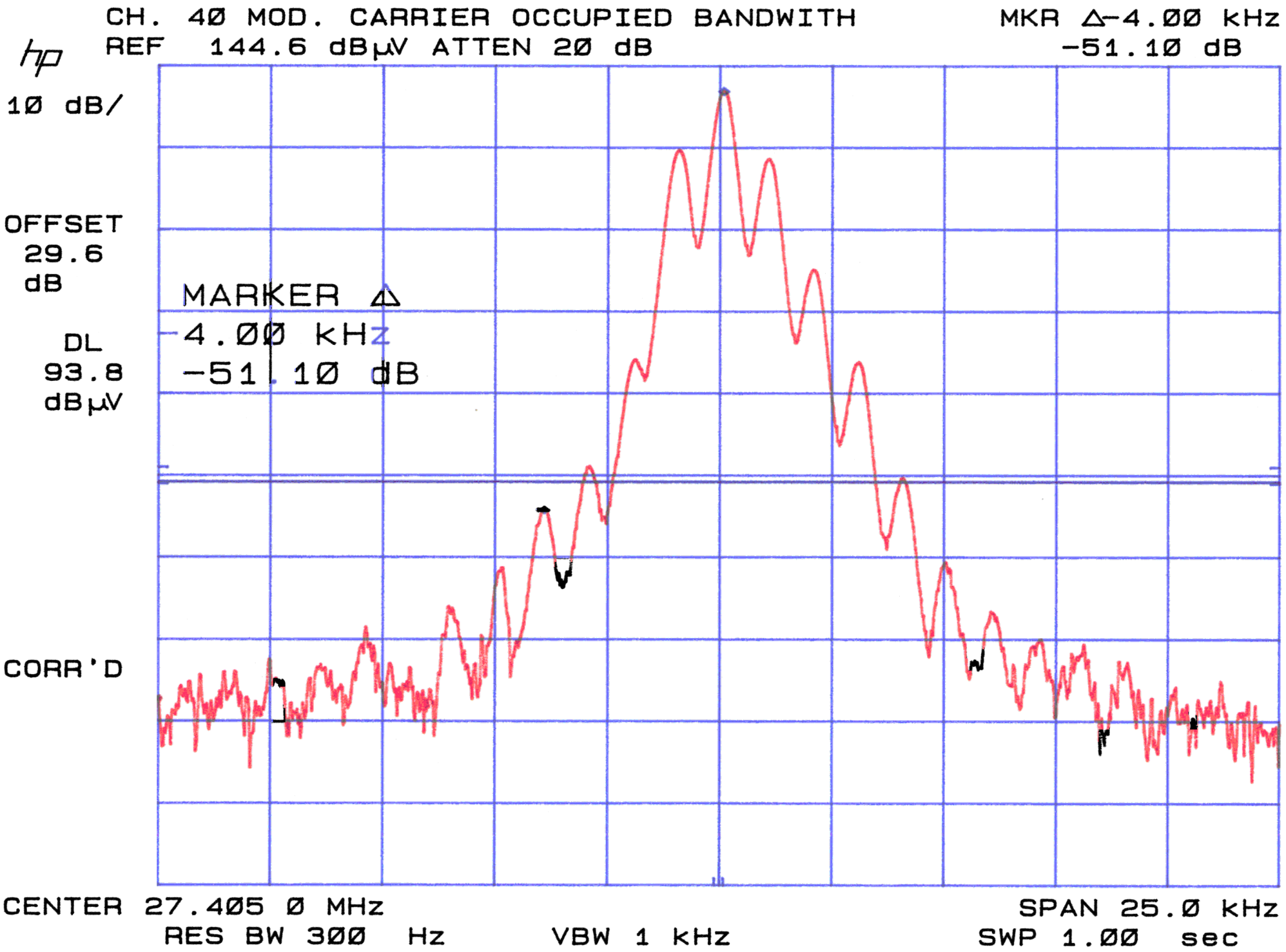

CH. 40 MOD. CARRIER OCCUPIED BANDWITH
MKR Δ-4.00 kHz
REF 144.6 dBμV ATTEN 20 dB
-51.10 dB
hp
10 dB/
OFFSET
29.6
dB
MARKER Δ
4.00 kHz
-51.10 dB
DL
93.8
dBμV
CORR'D
CENTER 27.405 0 MHz
SPAN 25.0 kHz
RES BW 300 Hz
VBW 1 kHz
SWP 1.00 sec

SECTION 10

2.1051 SPURIOUS EMISSIONS AT ANTENNA TERMINALS

TEST PROCEDURES
2.1051 SPURIOUS EMISSIONS AT ANTENNA TERMINALS

REPORT # 20221
FCC D: **JOFRS9803UD**

This test was performed to show the magnitude of each spurious and harmonic emissions that can be detected when the equipment is operated under the conditions specified in 2.1049.

The CB antenna output connector was connected to an HP 8498A 30 dB attenuator, which was connected to an HP 8568B spectrum analyzer. The CB was powered on and channel 1 was selected. The microphone was then keyed under normal operating conditions and the level of the highest spurious or harmonic emission was recorded. This procedure was then performed on channels 19 and 40.

Note: In order to measure the harmonic emissions an additional Texscan Tunable Bandpass filter was connected between the HP 8498A 30 dB attenuator and the analyzer in order to eliminate overloading the S.A. front end.

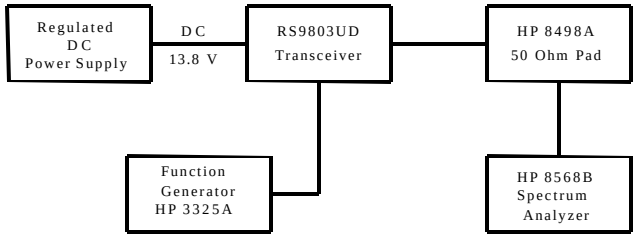
2.1051 SPURIOUS EMISSIONS AT ANTENNA TERMINALS

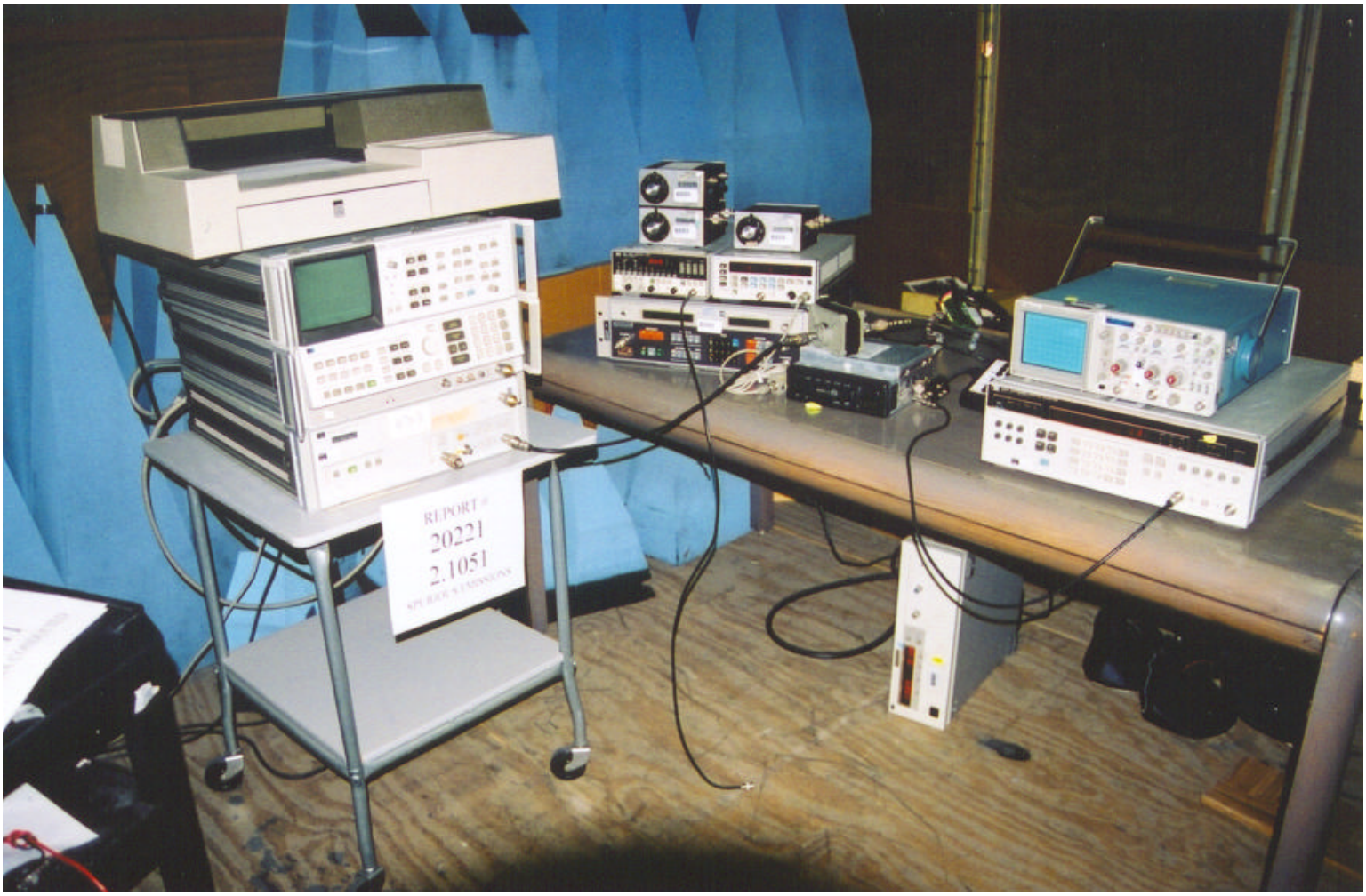
REPORT # 20221

FCC D: JOFRS9803UD

2.1051 SPURIOUS EMISSIONS

TEST SET UP




REPORT #
20221
2.1051

2.1051 SPURIOUS EMISSIONS AT ANTENNA TERMINALS

REPORT # 20221
FCC D: JOFRS9803UD

Channel 19 = 27.18508 MHz Transmit Level = 141.5 dBμV

HARMONIC		LEVEL		LIMIT
54.37 MHz		73.75 dBμV		82.5 dBμV
81.56 MHz		66.65 dBμV		82.5 dBμV
108.740 MHz		>20dB Below Limit		82.5 dBμV
135.930 MHz		>20 dB Below Limit		82.5 dBμV
163.110 MHz		>20 dB Below Limit		82.5 dBμV
190.300 MHz		>20 dB Below Limit		82.5 dBμV
217.480 MHz		>20 dB Below Limit		82.5 dBμV
244.670 MHz		>20 dB Below Limit		82.5 dBμV
271.850 MHz		>20 dB Below Limit		82.5 dBμV
299.040 MHz		>20 dB Below Limit		82.5 dBμV

2.1051 SPURIOUS EMISSIONS AT ANTENNA TERMINALS

REPORT # 20221
FCC D: JOFRS9803UD

Channel 1 = 26.9652 MHz **Transmit Level = 141.2 dBμV**

HARMONIC		LEVEL		LIMIT
53.93 MHz		70.0 dBμV		82.5 dBμV
80.90 MHz		67.2 dBμV		82.5 dBμV
107.860 MHz		40.5 dBμV		82.5 dBμV
134.830 MHz		>20 dB Below Limit		82.5 dBμV
161.790 MHz		>20 dB Below Limit		82.5 dBμV
188.760 MHz		>20 dB Below Limit		82.5 dBμV
215.720 MHz		>20 dB Below Limit		82.5 dBμV
242.690 MHz		>20 dB Below Limit		82.5 dBμV
269.650 MHz		>20 dB Below Limit		82.5 dBμV
296.620 MHz		>20 dB Below Limit		82.5 dBμV

2.1051 SPURIOUS EMISSIONS AT ANTENNA TERMINALS

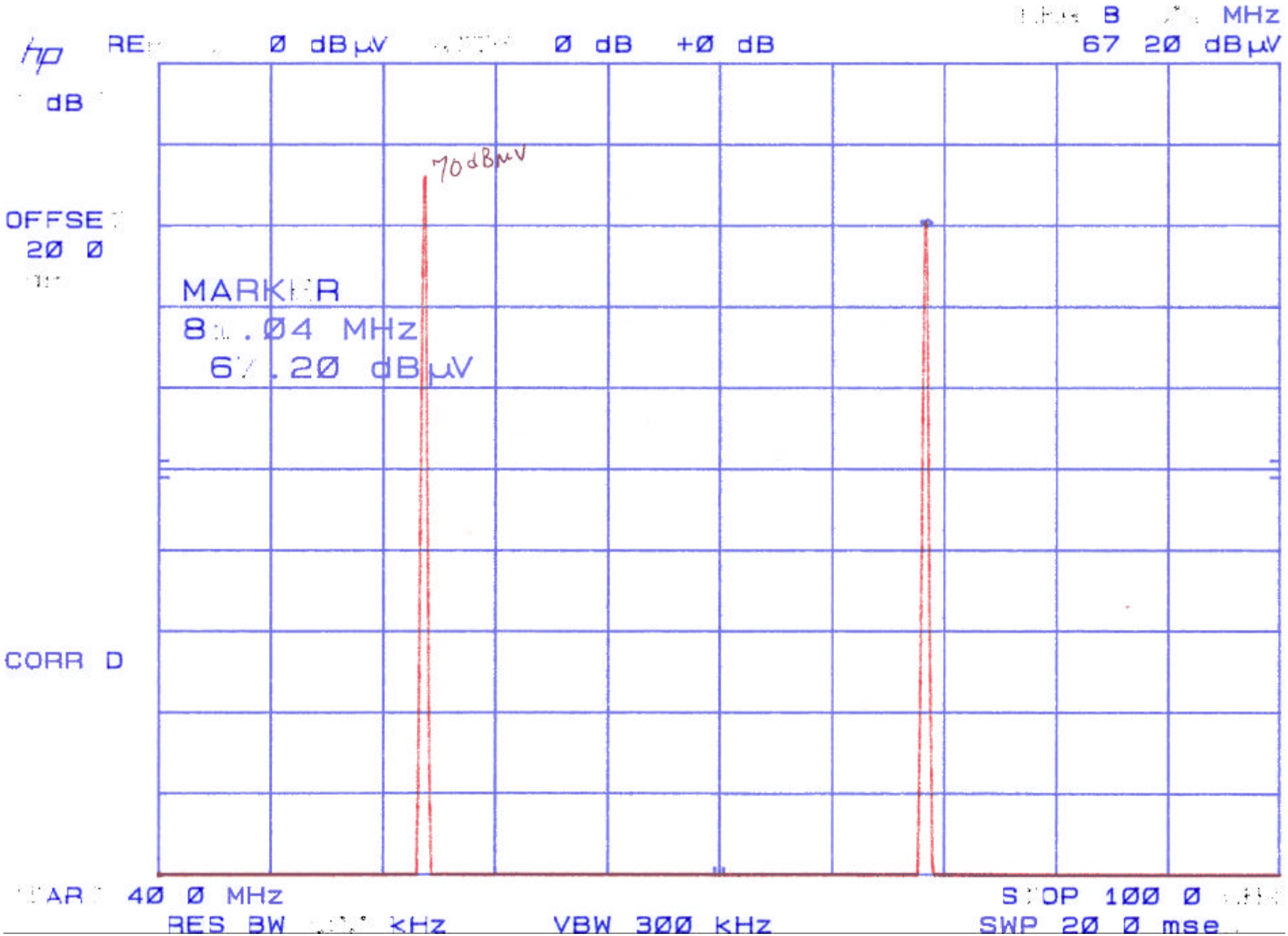
REPORT # 20221
FCC D: JOFRS9803UD

Channel 40 = 27.4052 MHz **Transmit Level = 141.5 dBμV**

HARMONIC		LEVEL		LIMIT
54.81 MHz		>20 dB Below Limit		82.5 dBμV
82.22 MHz		>20 dB Below Limit		82.5 dBμV
109.620 MHz		>20 dB Below Limit		82.5 dBμV
137.030 MHz		>20 dB Below Limit		82.5 dBμV
164.430 MHz		>20 dB Below Limit		82.5 dBμV
191.840 MHz		>20 dB Below Limit		82.5 dBμV
219.240 MHz		>20 dB Below Limit		82.5 dBμV
246.650 MHz		>20 dB Below Limit		82.5 dBμV
274.650 MHz		>20 dB Below Limit		82.5 dBμV
301.460 MHz		>20 dB Below Limit		82.5 dBμV

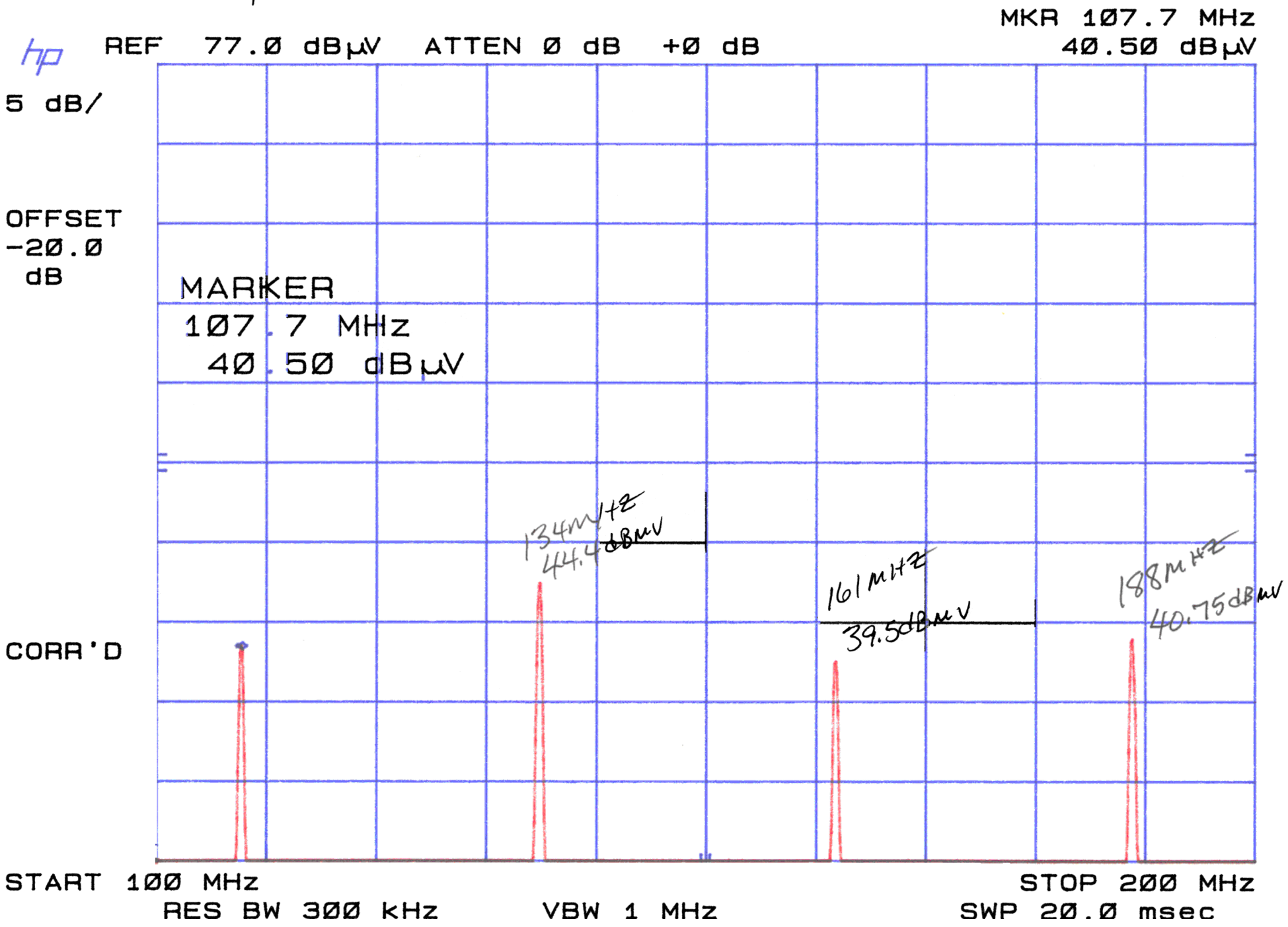
SPUR EMISSIONS ANTENNAS

CH



2.1051 Spurious Emissions at Ant. Terminals

Ch. 1



2.1051 SPURIOUS EMISSIONS AT ANT. TERMINA

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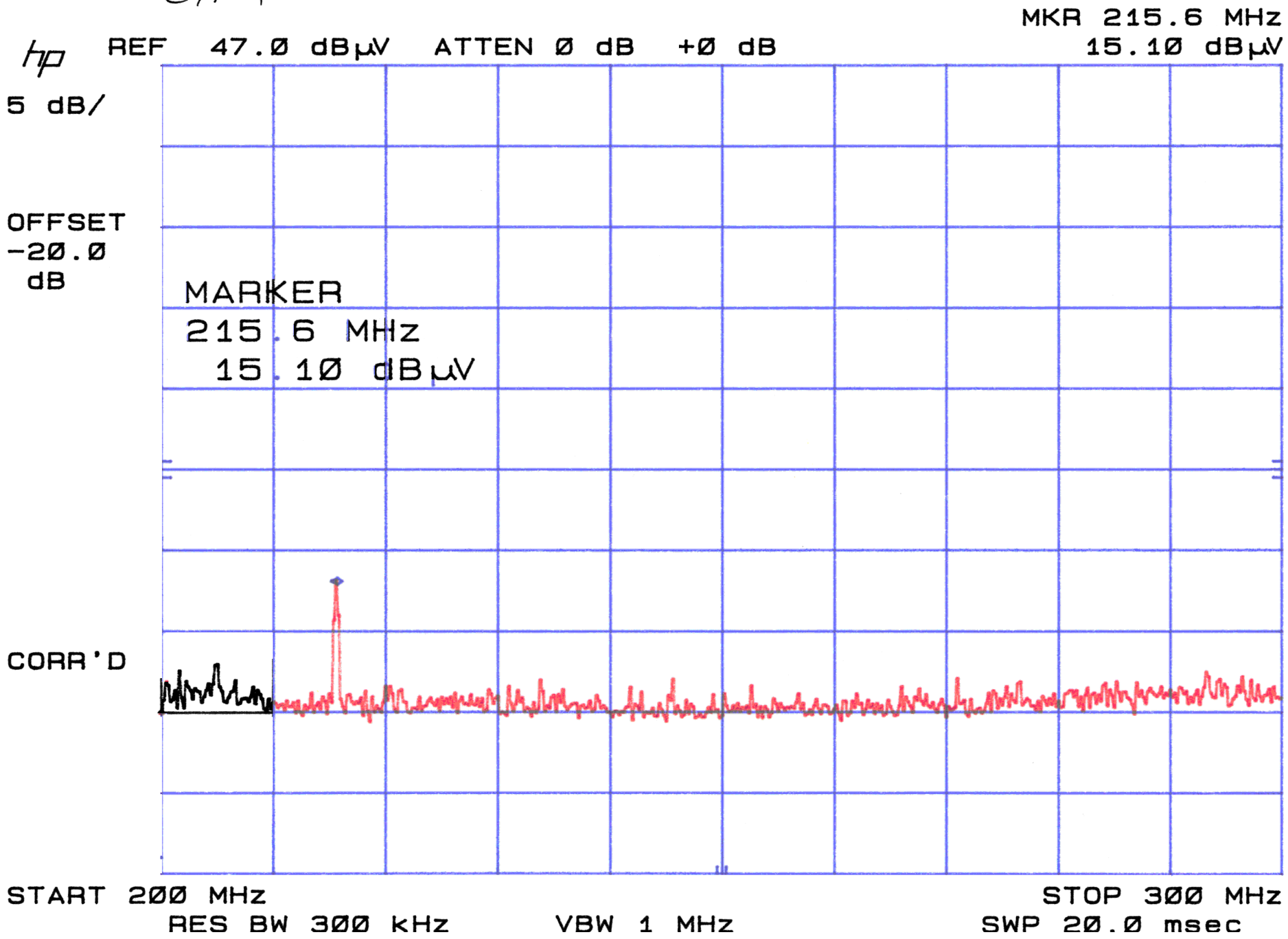
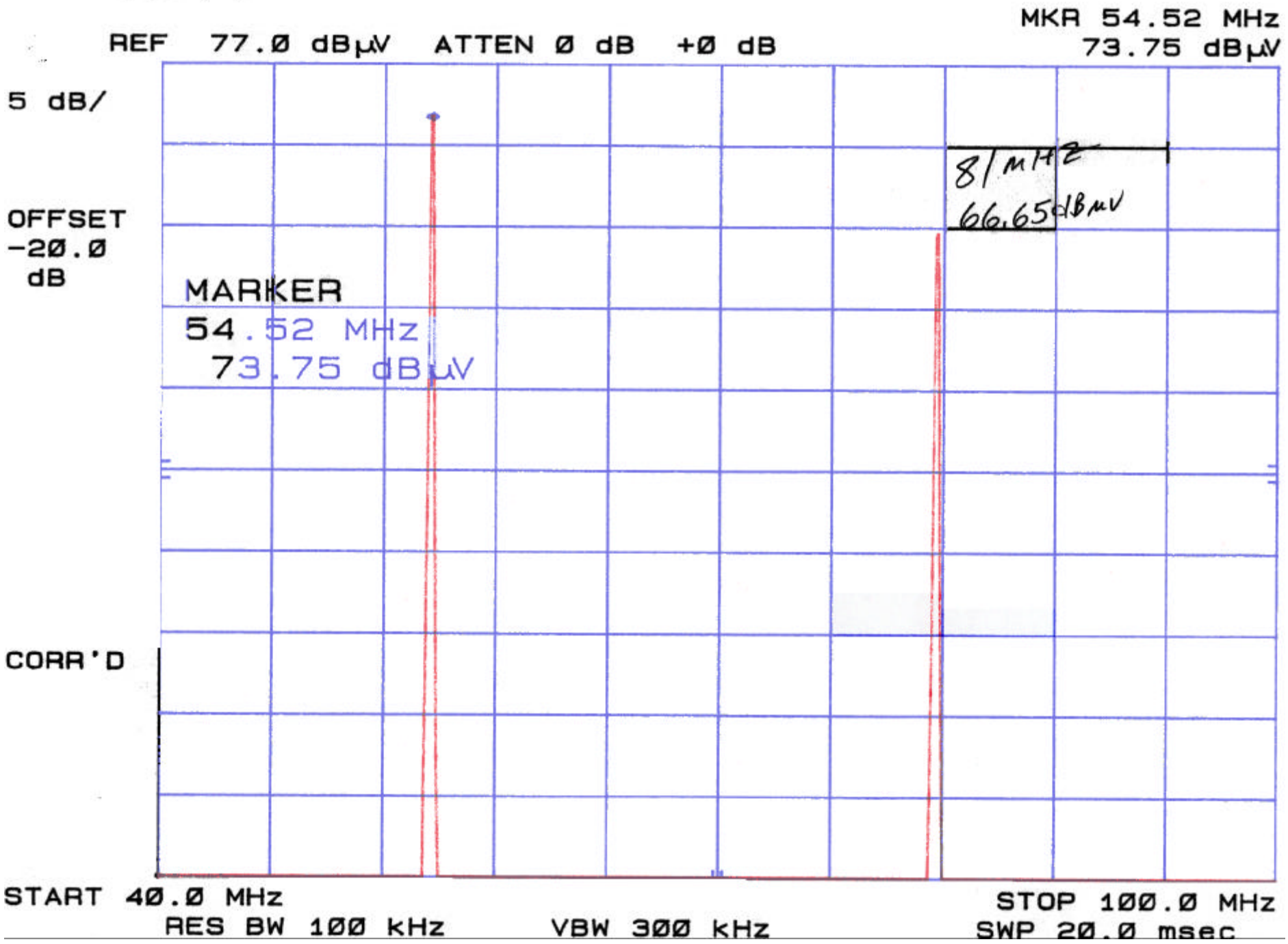


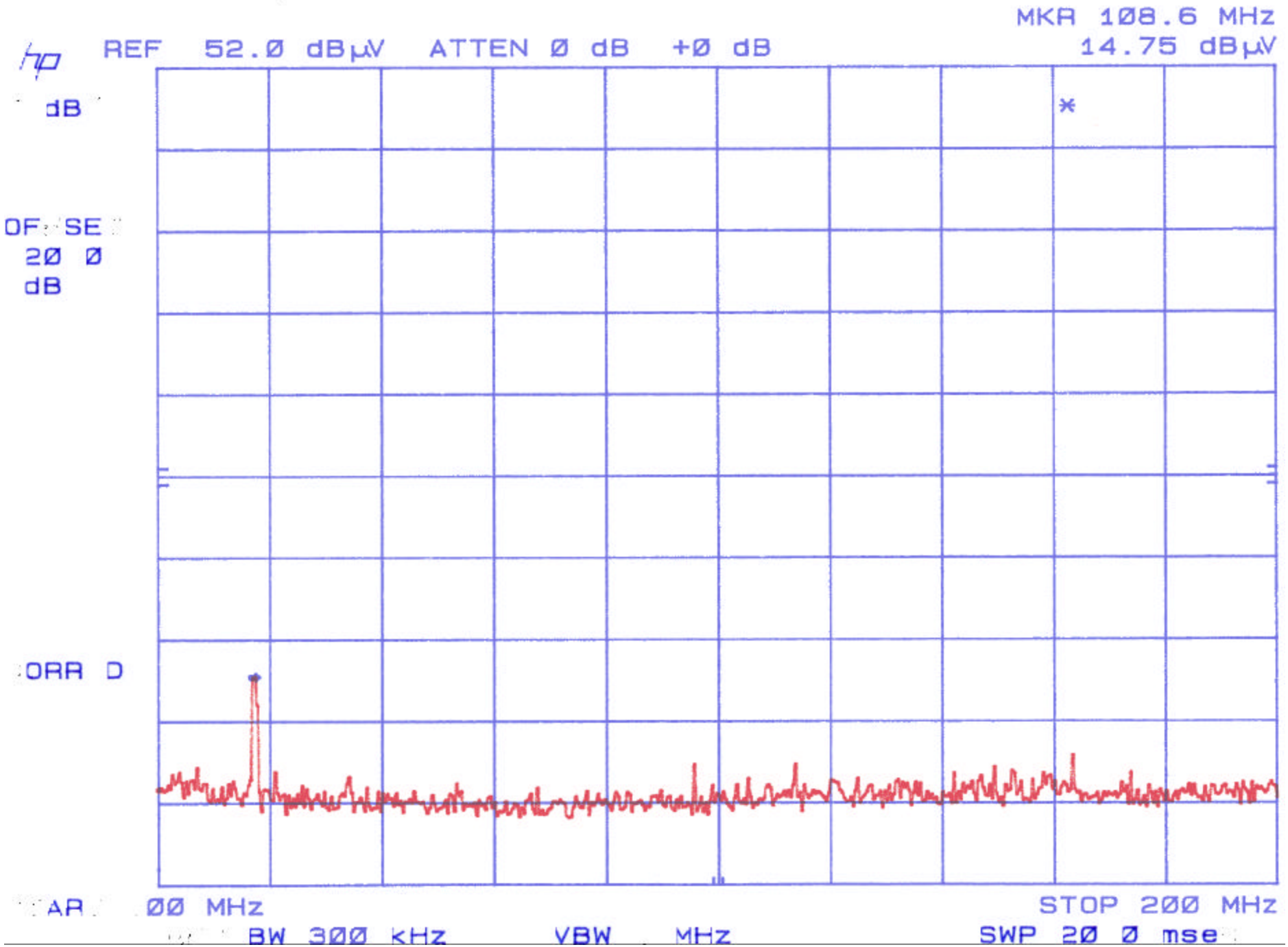
2.1051 Spurious Emissions at Ant. Terminals

CH. 19

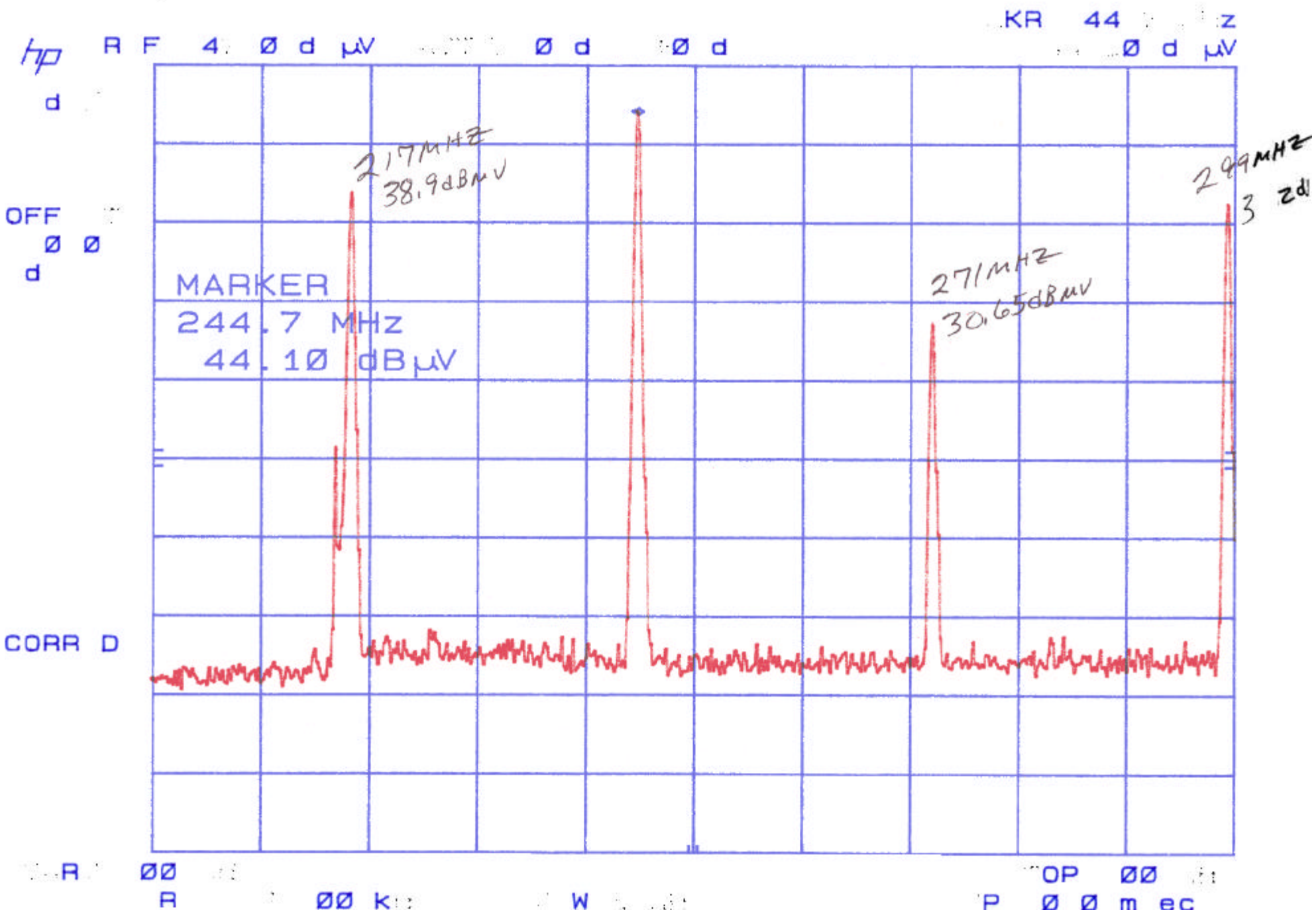


2.05 - PWR u. EMISSIONS ATA. ERM NAIS

CH 14

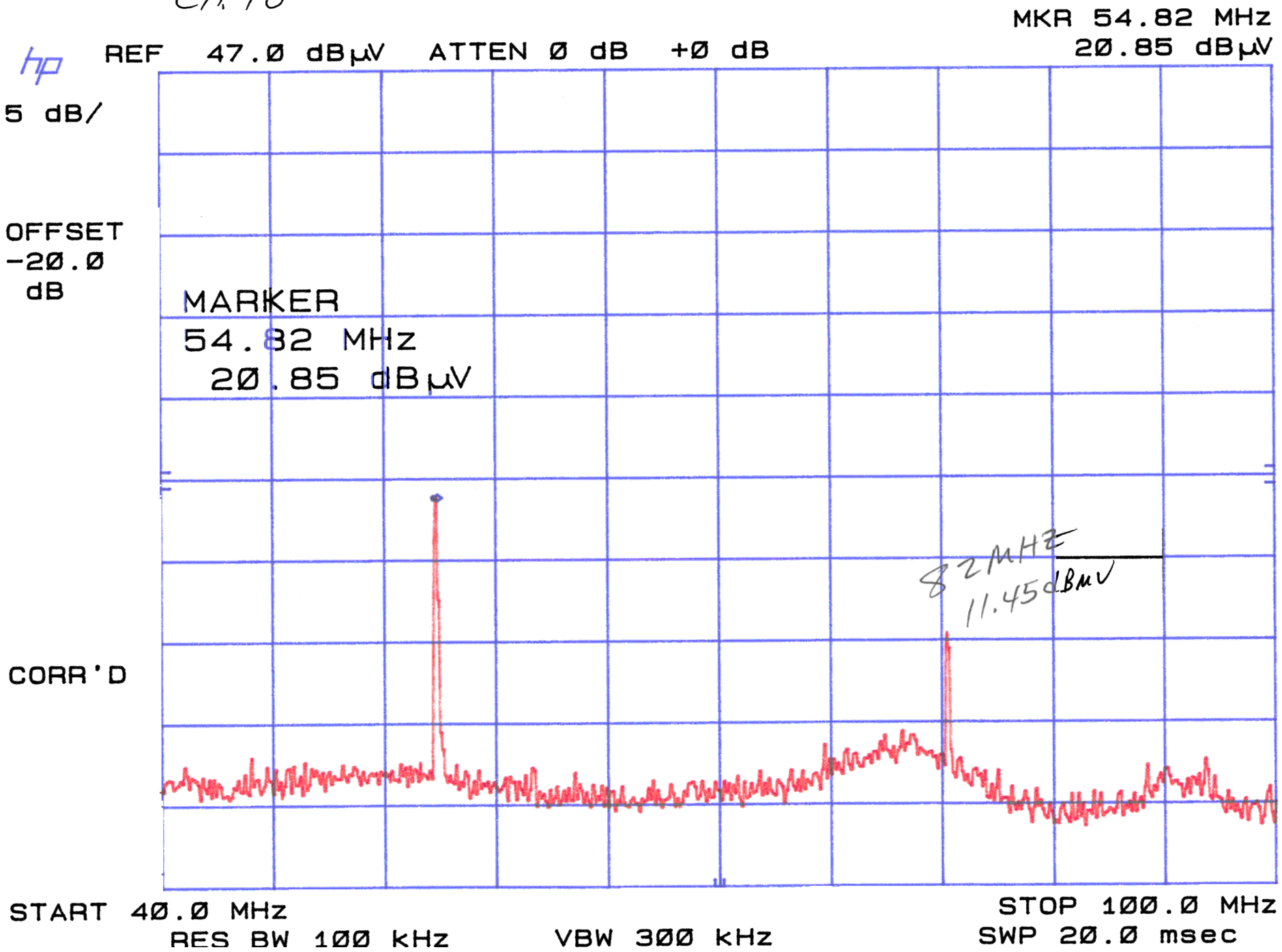


2105 SPUR EMS AT ANT TERMINAL
CH 19



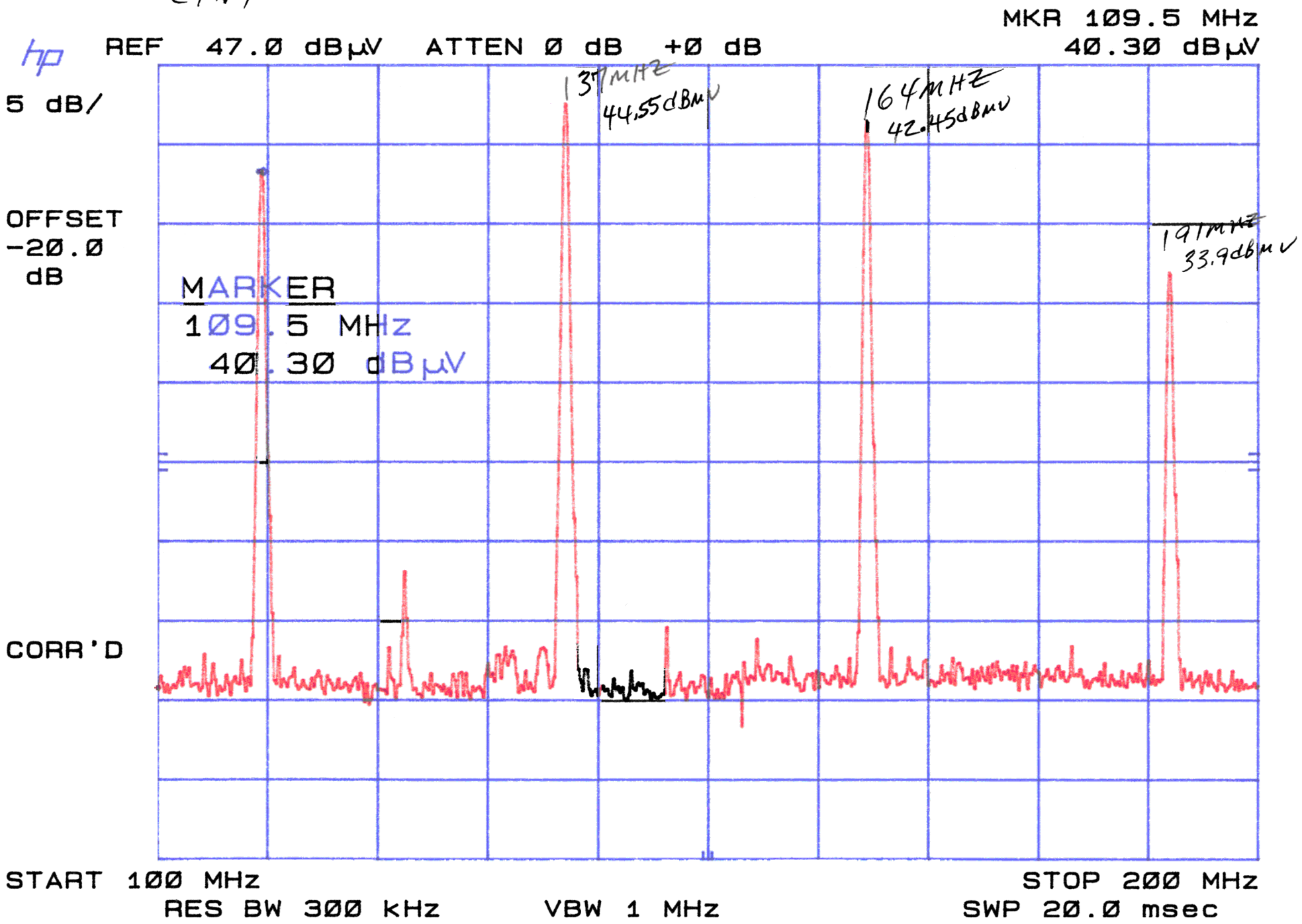
2.1051 SPURIOUS EMISSIONS AT ANT. TERMINALS

CH 40



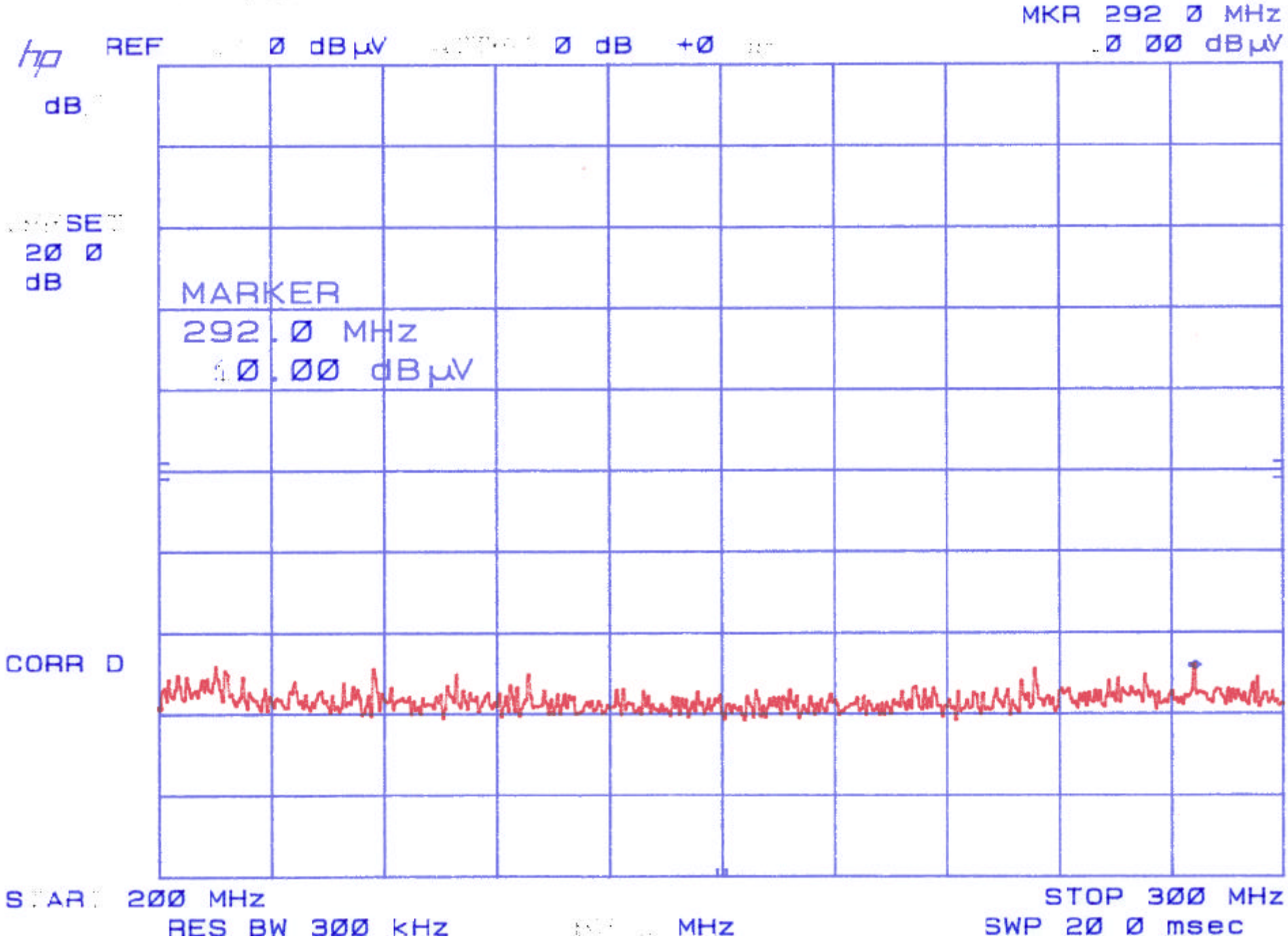
2.1051 SPURIOUS EMISSION AT ANT. TERMINALS

CH.40



§105 SPUR. us EMISSIONS AT ANT TERMINALS

CH 40



SECTION 11

2.1053 SPURIOUS RADIATION

2.1053 SPURIOUS RADIATION

REPORT # 20221
FCC D: JOFRS9803UD

The EUT was placed in a typical configuration on a wooden table 80cm above a rotate able metal turntable mounted level with the metal ground plane. A receiving Bicon antenna was placed 3 meters away from the EUT on a 4-meter fiberglass mast. The receiving antenna was connected to the 50 O input of the HP8566B spectrum analyzer. The EUT was powered by a 13 VDC supply and was configured into its normal operational mode.

The 30 to 40 MHZ band was observed on the spectrum analyzer while the EUT power and control leads were adjusted to maximize emissions. The peak frequencies for this band were recorded. This search for emissions continued from 40 MHZ up to 1000 MHz.

The receiving antennas were varied in height from 1 to 4 meters and the remote turntable was rotated 360 degrees to find the maximum emissions. This test was performed for all modes of operation.

All significant emissions are reported on the attached data report. To verify that the E.M.I. emissions measured were generated by the E.U.T., the system power was interrupted at peak reading while observing the Spectrum Analyzer. Unless otherwise specified, all Radiated Emissions are recorded as "PEAK" spectrum analyzer readings. The Radiated Field Strength was calculated as follows: Maximum Emission Received (dB) + Antenna Factor (dB) + Cable Loss (dB) = Field Strength dBuv/Meter.

2.1053 SPURIOUS RADIATION

REPORT # 20221
FCC D: JOFRS9803UD

2.1053 FIELD STRENGTH OF SPURIOUS RADIATION

TEST SET UP