

Project Number: 99ME45100
File Number: NC3932
Model: FFPA-8689-60
FCC ID: MCD FFPA8689-60

Issue Date: December 17, 1999

Two Signal Intermodulation Distortion Measurement

Test Procedure

Two signals were applied to provide two-tones that would produce 3rd order intermodulation (IMD's) that would fall out of the 869-894 MHz transmit cellular band and other 3rd order IMD's that would be in the 869-894 MHz transmit band. The signals were modulated with AMPS, TDMA, and CDMA. The input was adjusted to produce maximum output power (60W) from the amplifier.

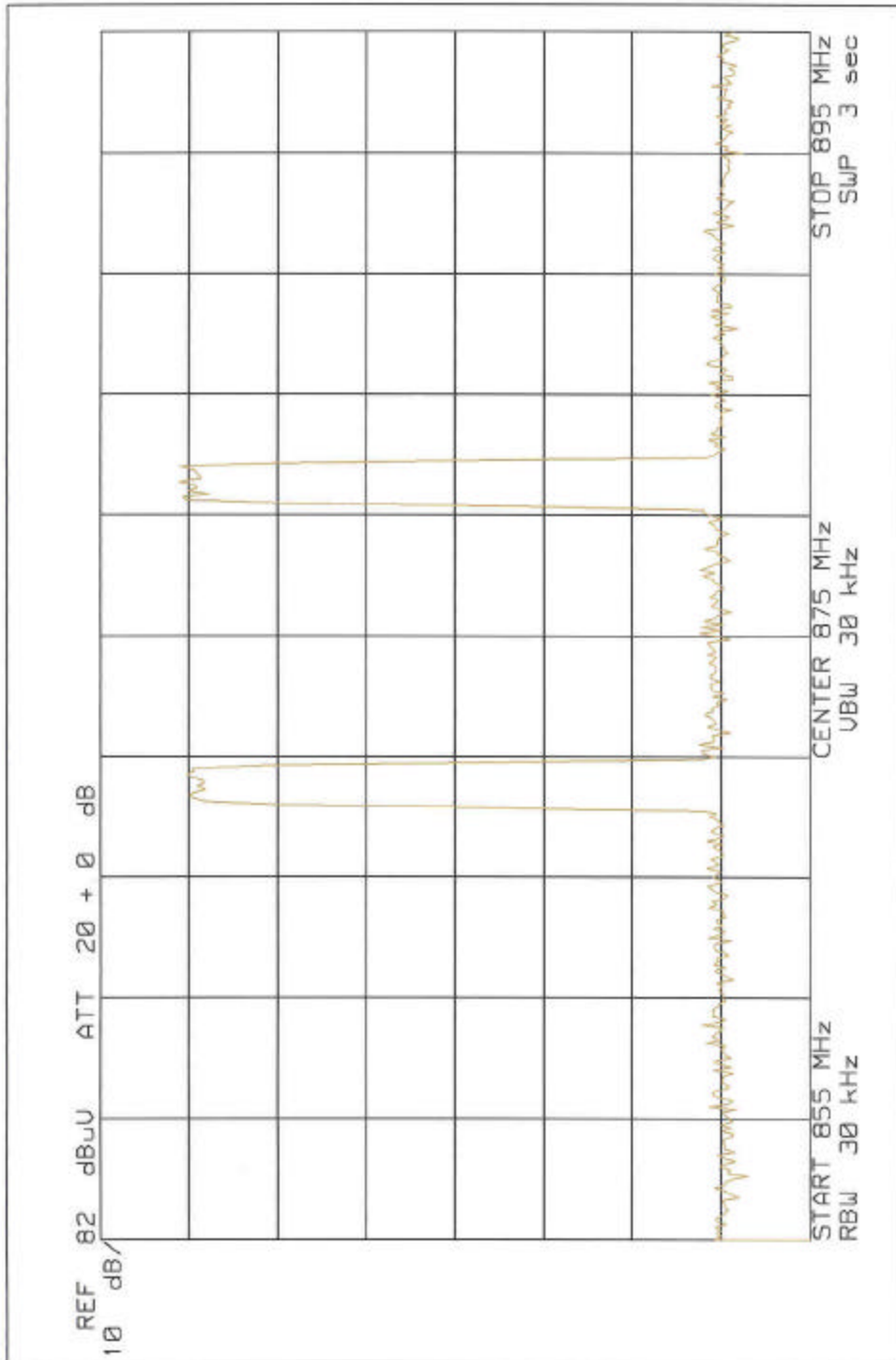
The frequency range from 30MHz to 10GHz was investigated for conducted spurious emissions. This measurement was performed to ensure that any out-of-band emissions produced by the intermodulation of the two injected frequencies were at least 60dB down from the fundamental.

Results:

No out of band emissions were found to be within 60dB of the injected frequencies.

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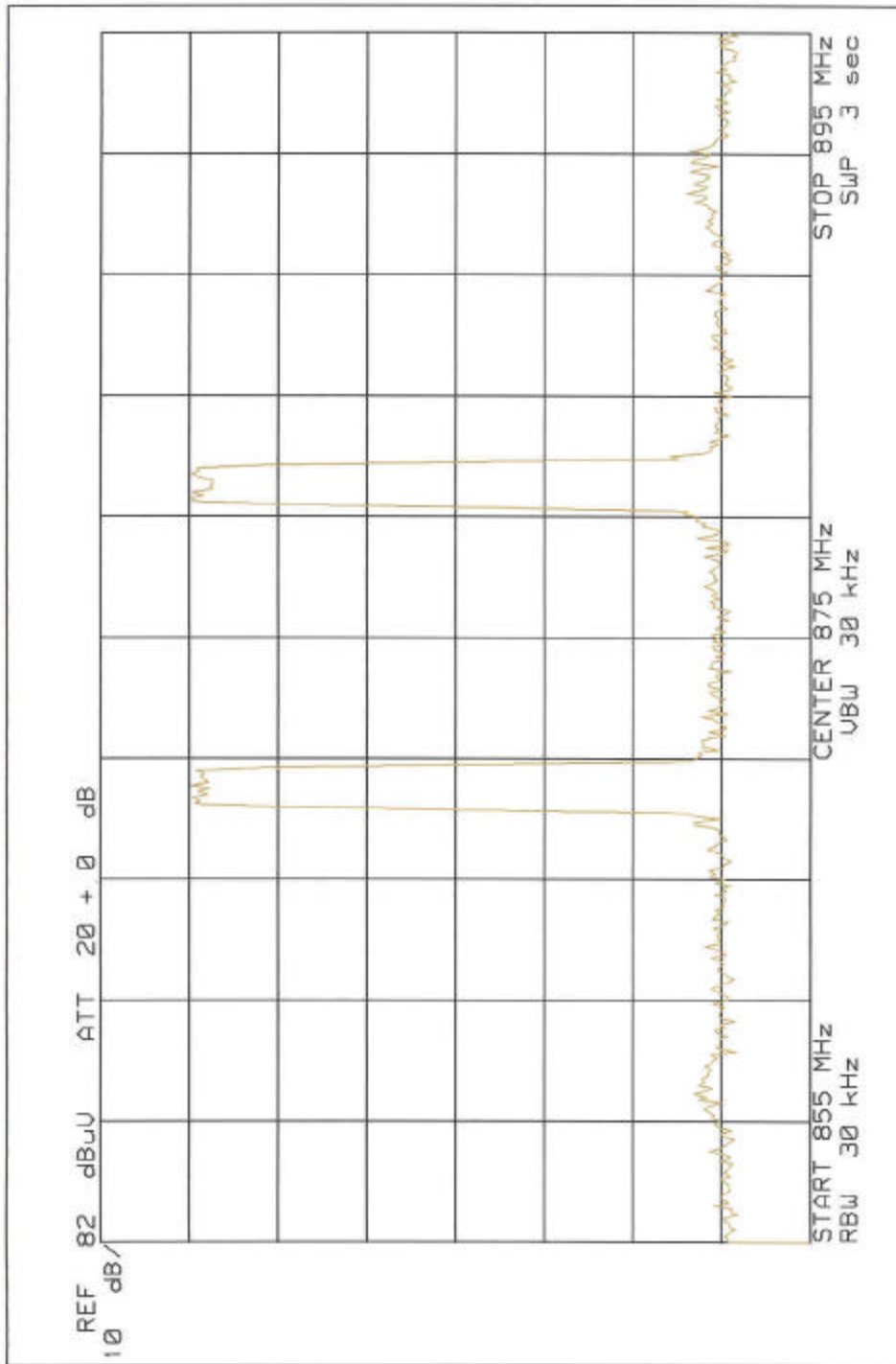


Observations/Comments: 2 Tone COMA INPUT

Tested By: WDW 10/28/99

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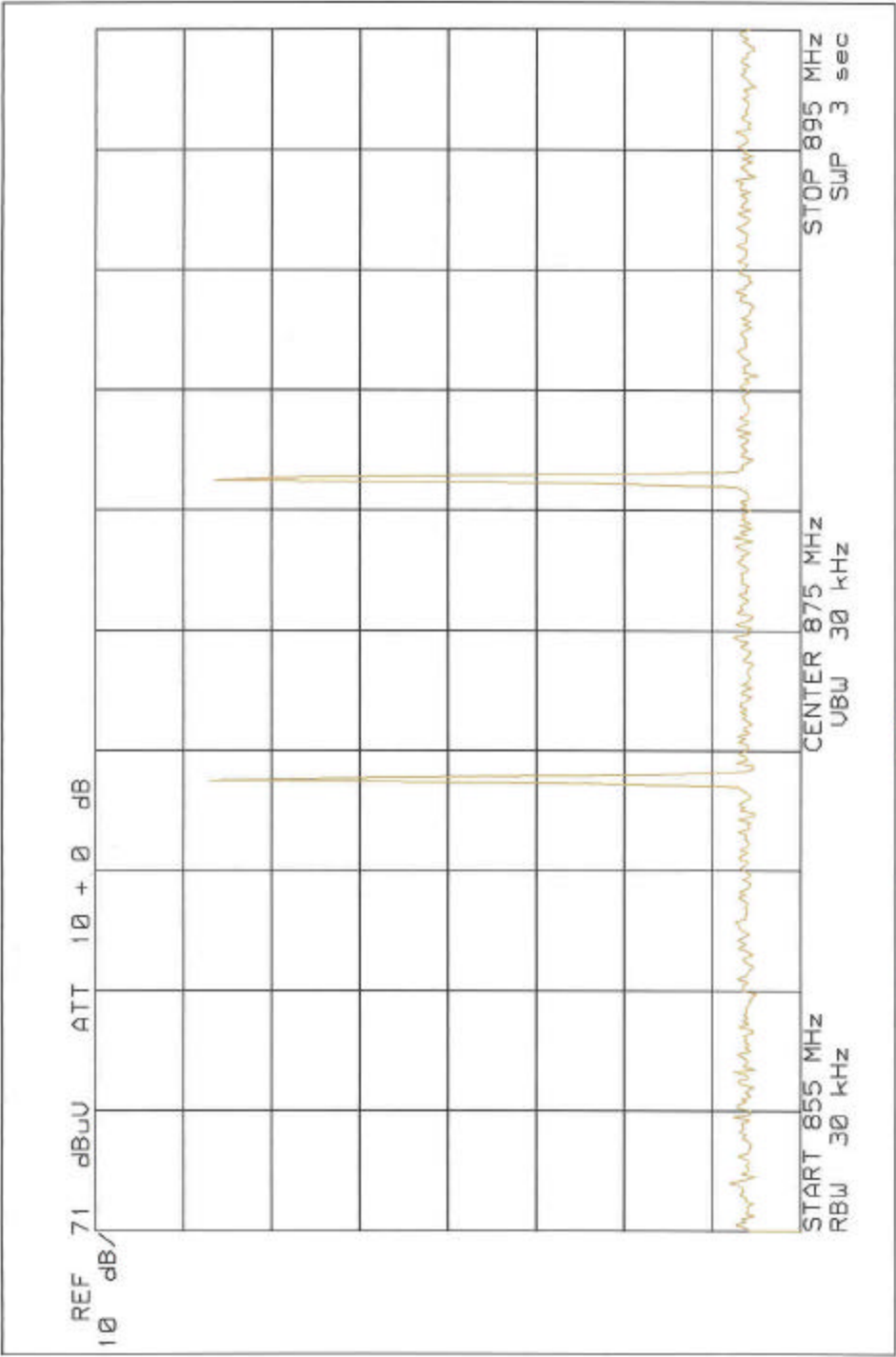


Observations/Comments: 2 Tone COMA Output FFPA 8689-60

Tested By: W. Wach 10/28/99

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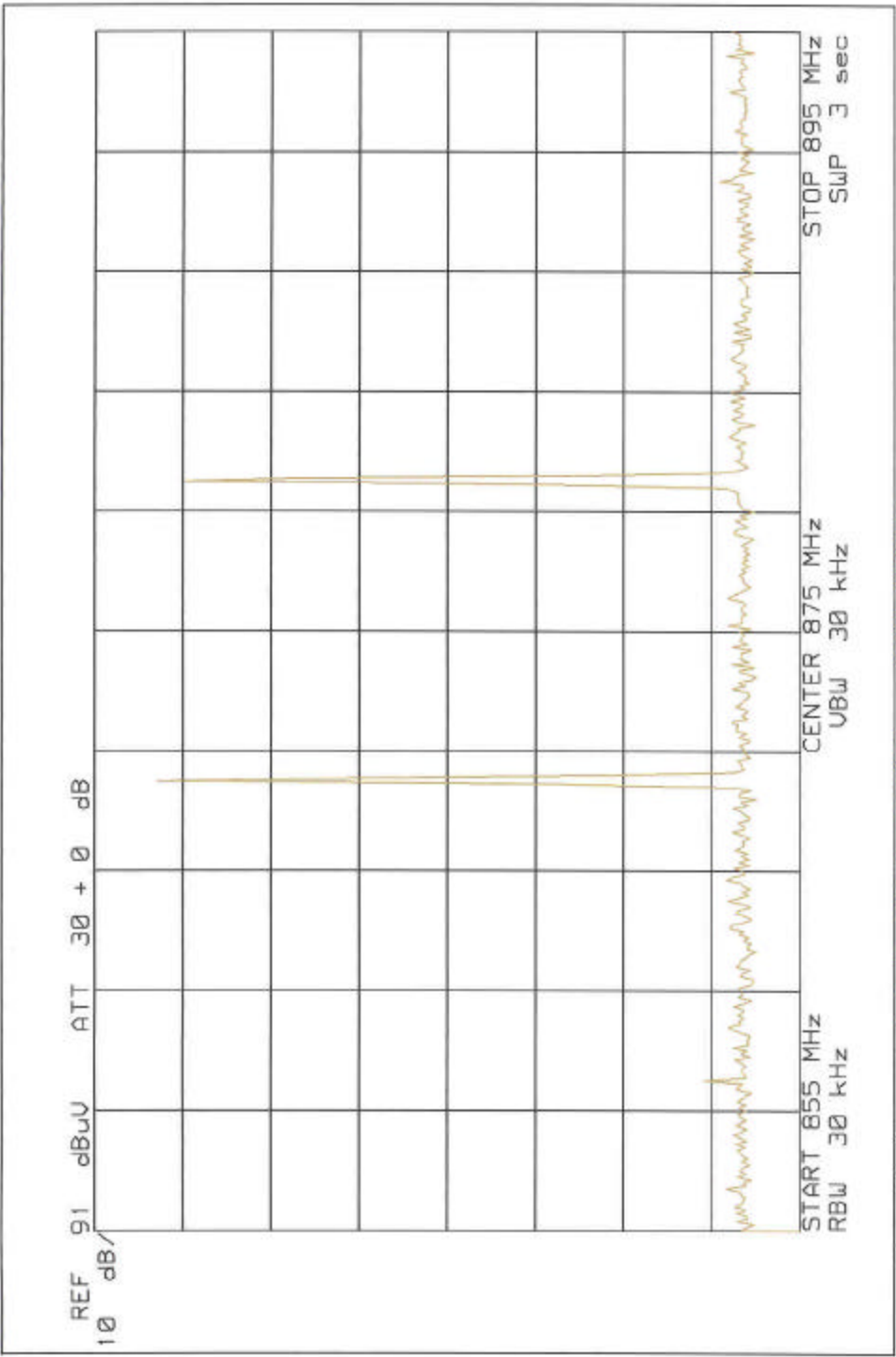


Observations/Comments: 2 Tone T0MA INPUT

Tested By: W.D. Naeen 10/28/99

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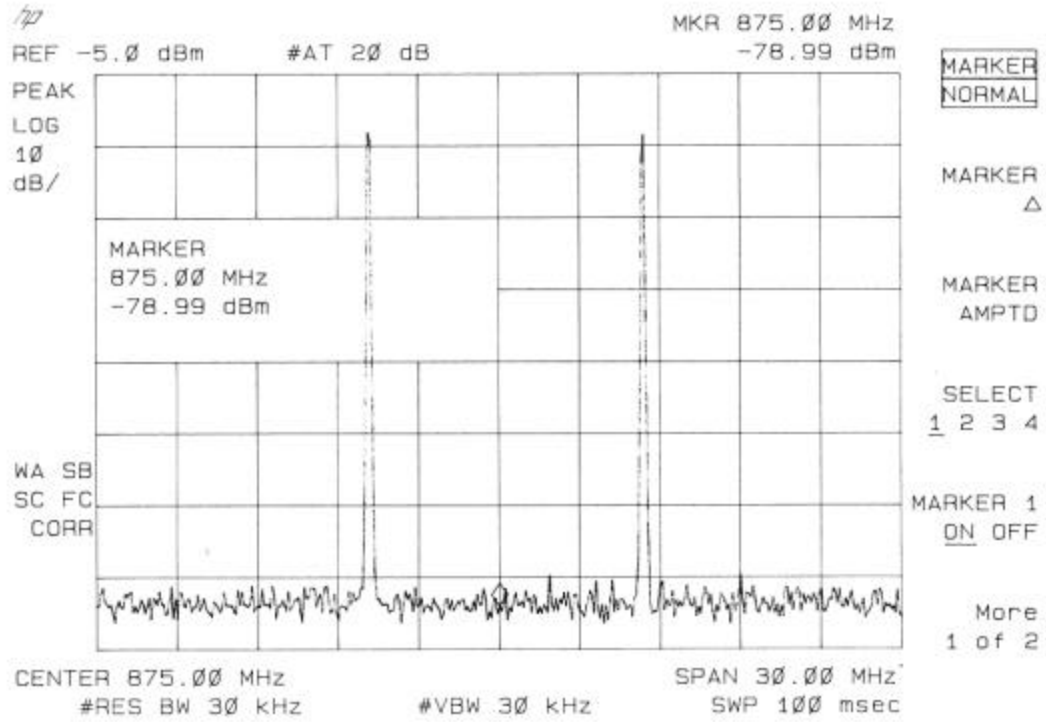


Observations/Comments: 2 Tone TDMA Output FFPA 8689-60

Tested By: _____

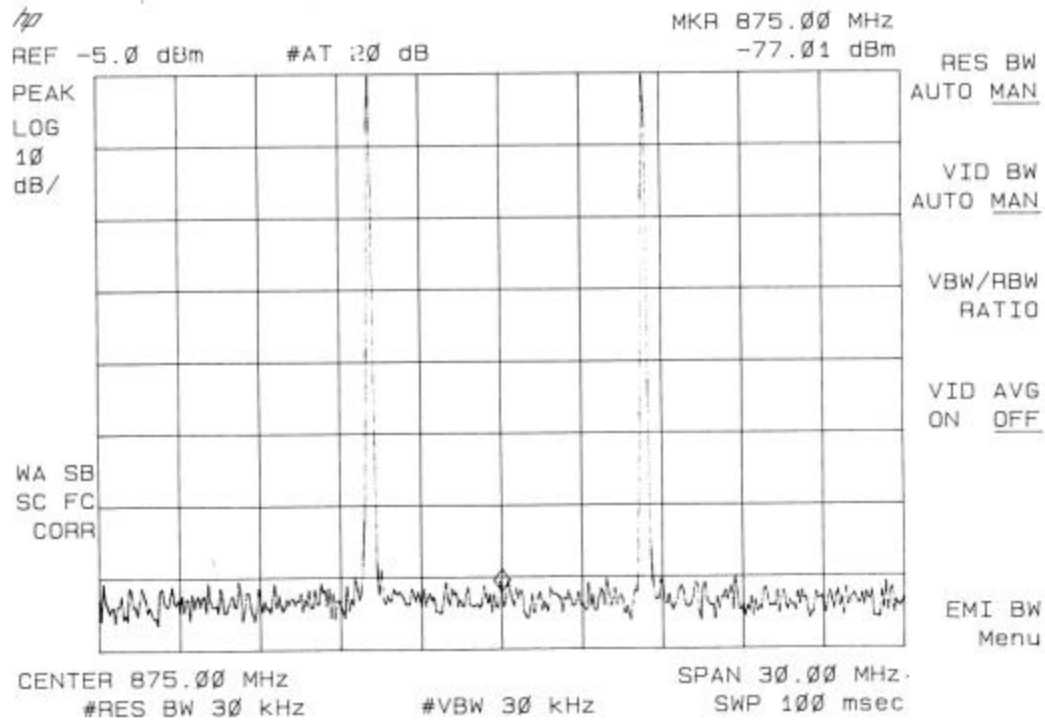
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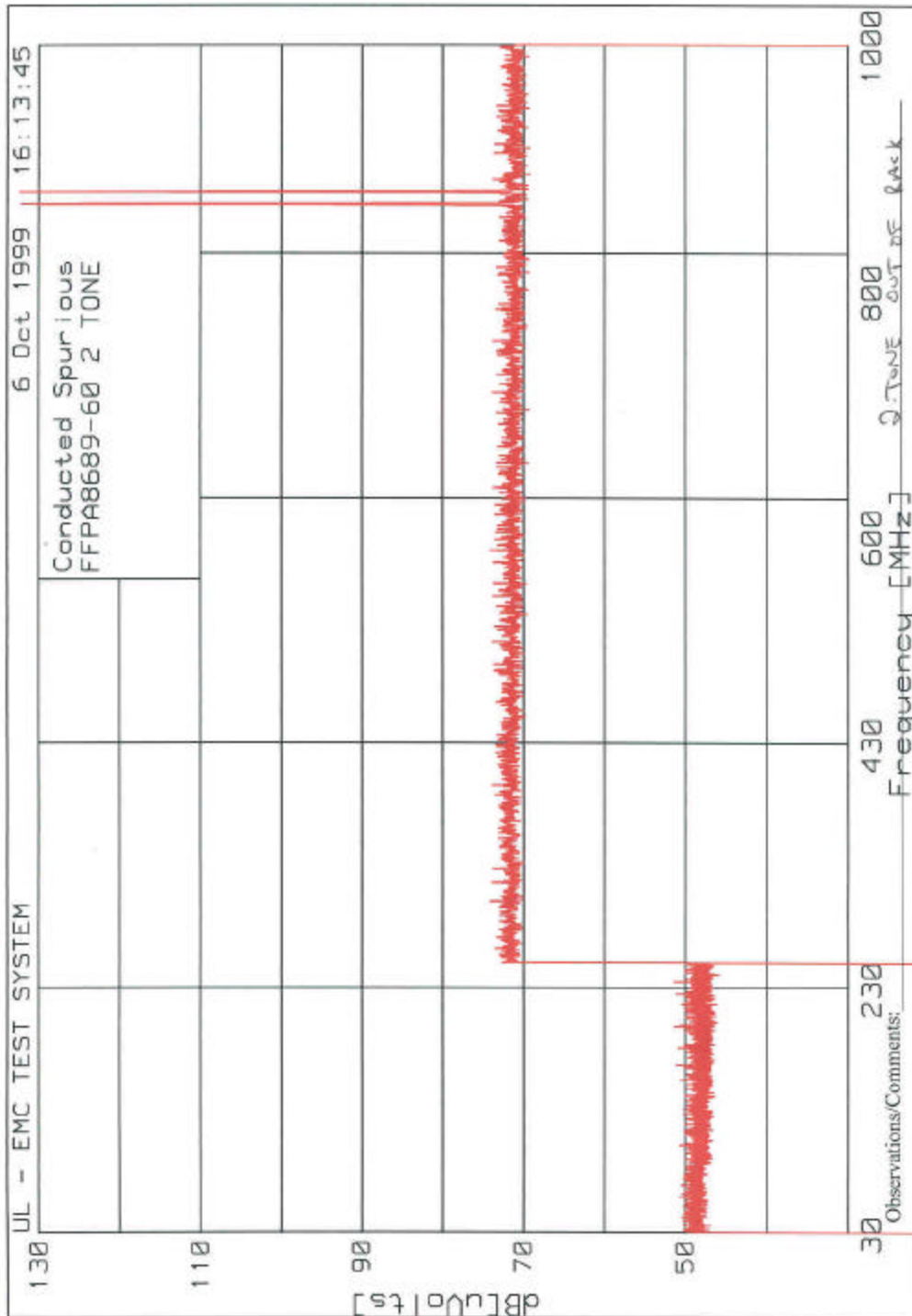
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2 Tone AMPS Output

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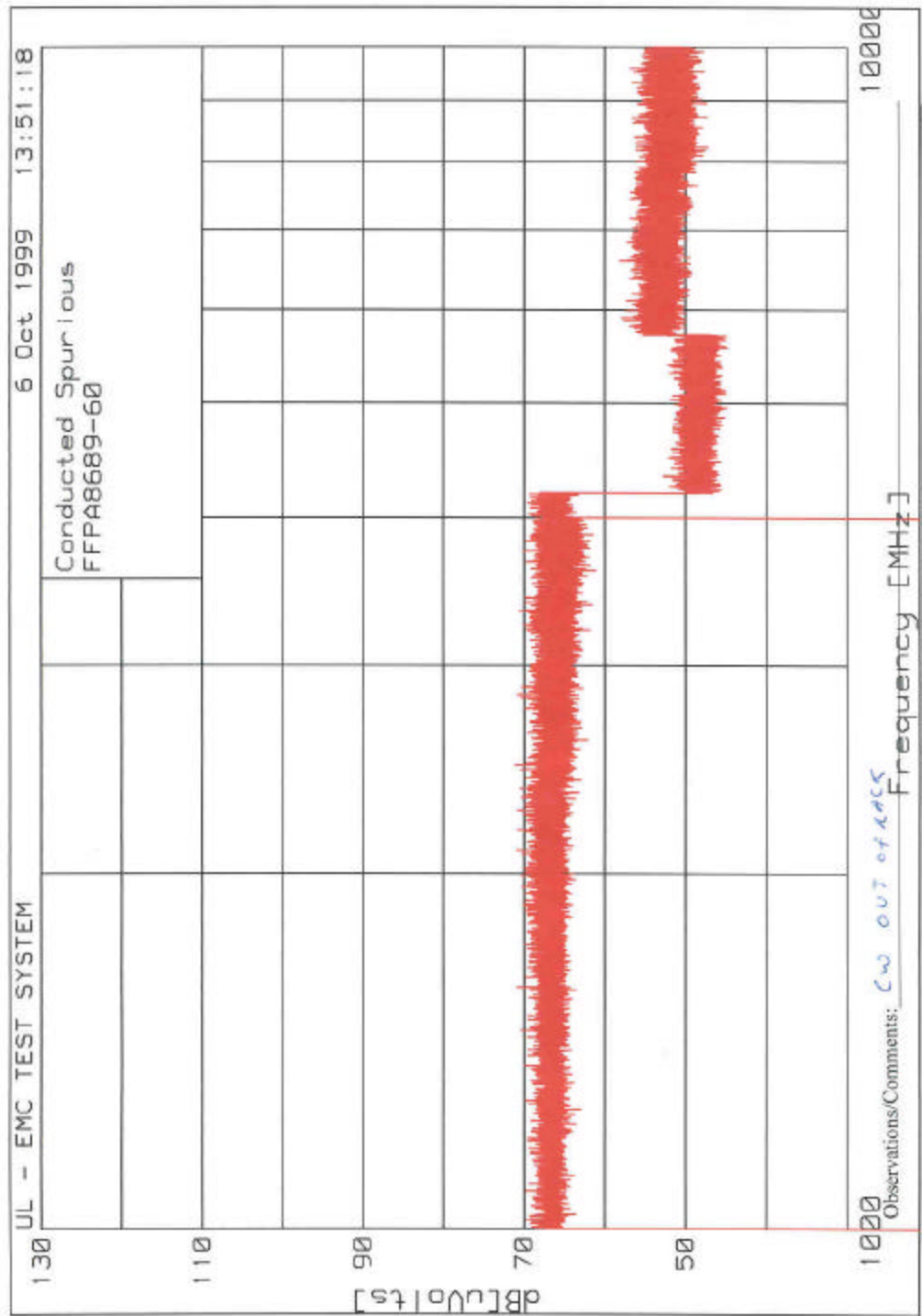
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Tested By: Red

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Tested By: W. W. W. W.