

Exhibit VII Test report

FCC ID HO82WUALS13

12/18/2008

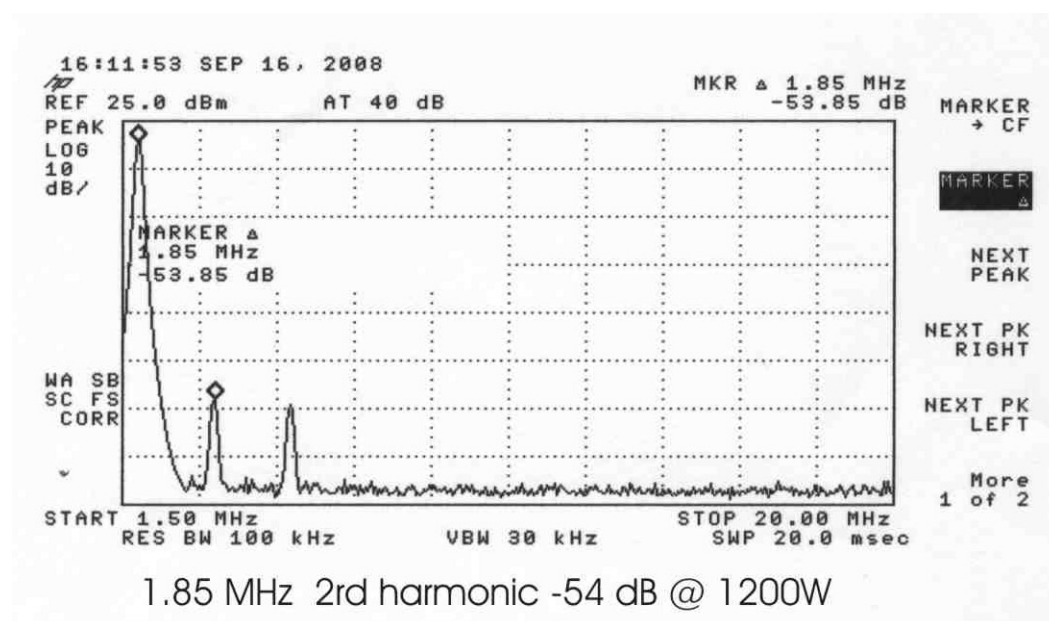
§ 97.317 Standards for certification of external RF power amplifiers.

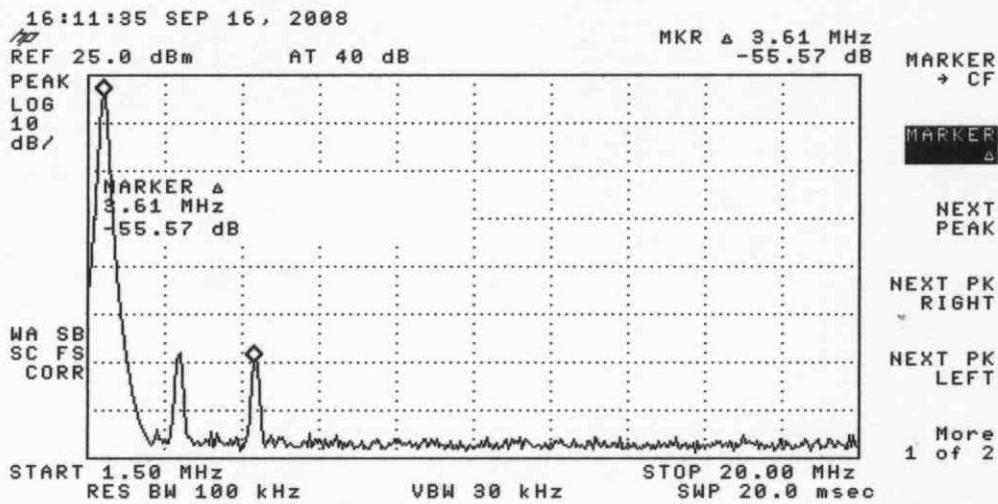
(a) To receive a grant of certification, the amplifier must:

(1) Satisfy the spurious emission standards of §97.307 (d) or (e) of this part, as applicable, when the amplifier is operated at the lesser of 1.5 kW PEP or its full output power and when the amplifier is placed in the “standby” or “off” positions while connected to the transmitter.

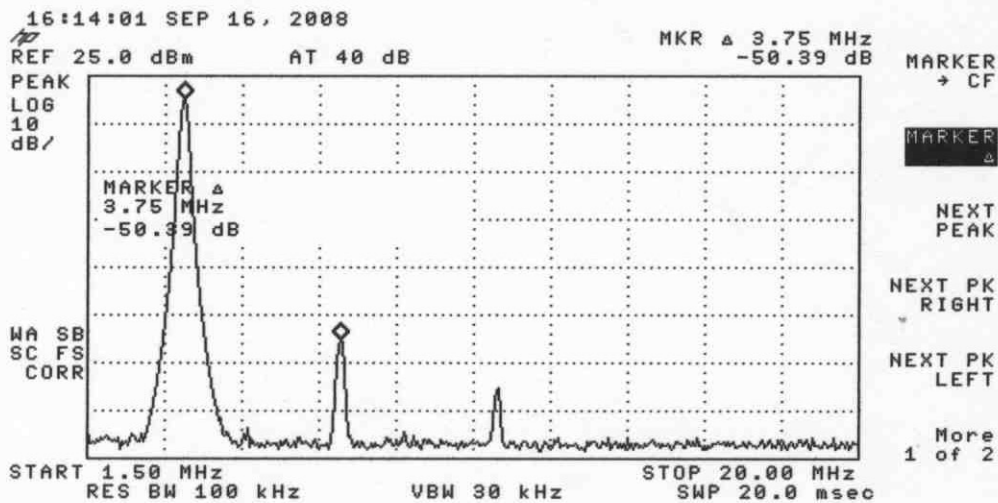
§ 97.307 Emission standards.

(d) For transmitters installed after January 1, 2003, the mean power of any spurious emission from a station transmitter or external **RF power amplifier transmitting on a frequency below 30 MHz** must be at least **43 dB below the mean power of the fundamental** emission:

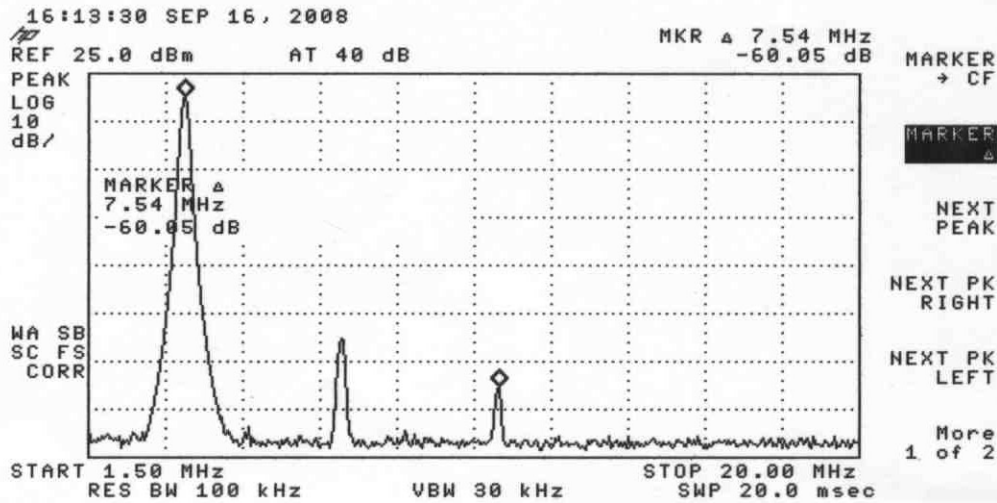




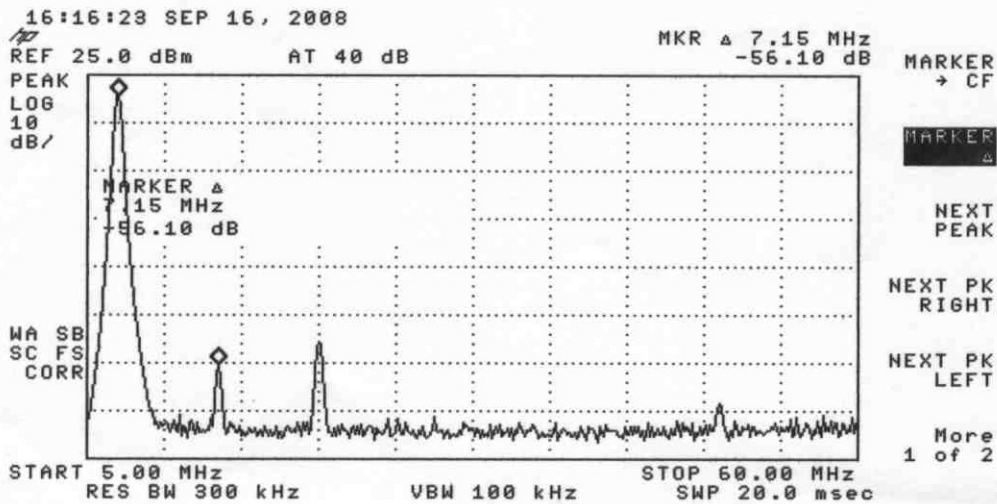
1.85 MHz 3rd harmonic -55.6 dB @ 1200W



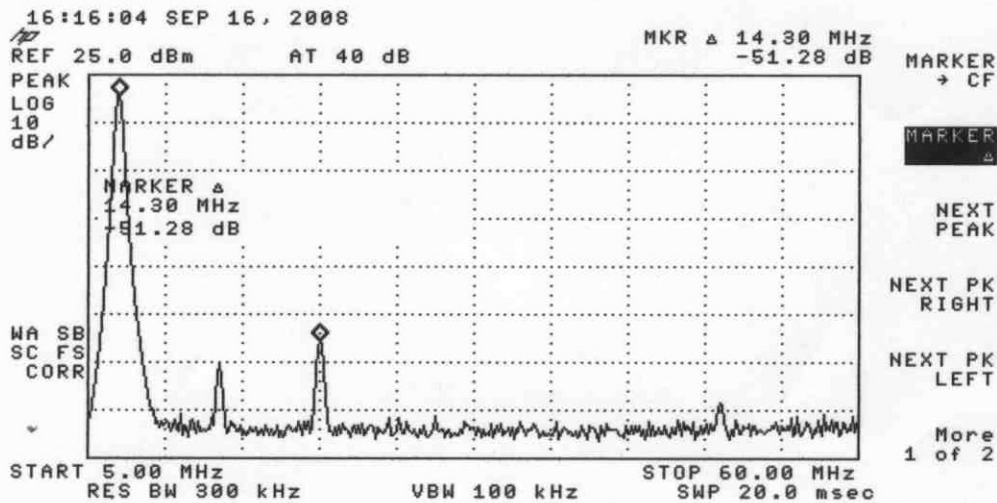
3.75 MHz 2nd harmonic -50.4 dB @ 1200W



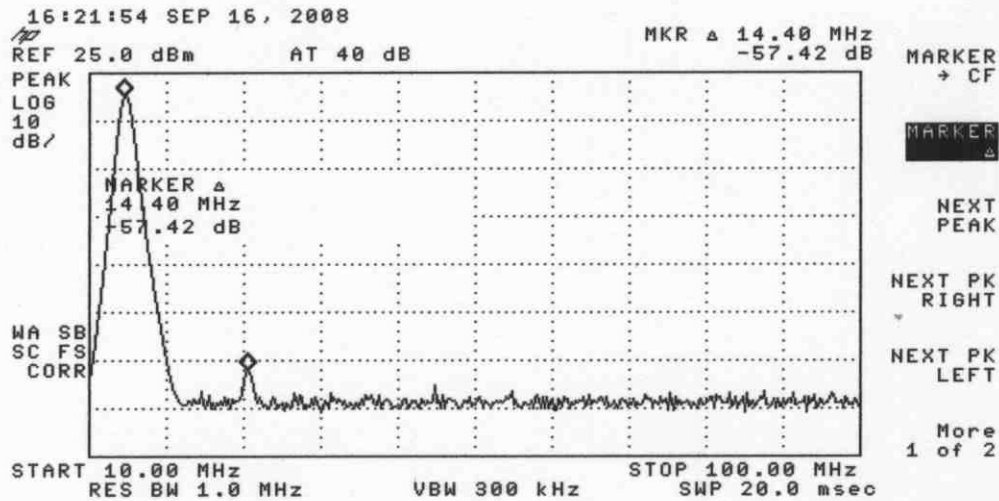
3.75 MHz 3rd harmonic -60 dB @ 1200W



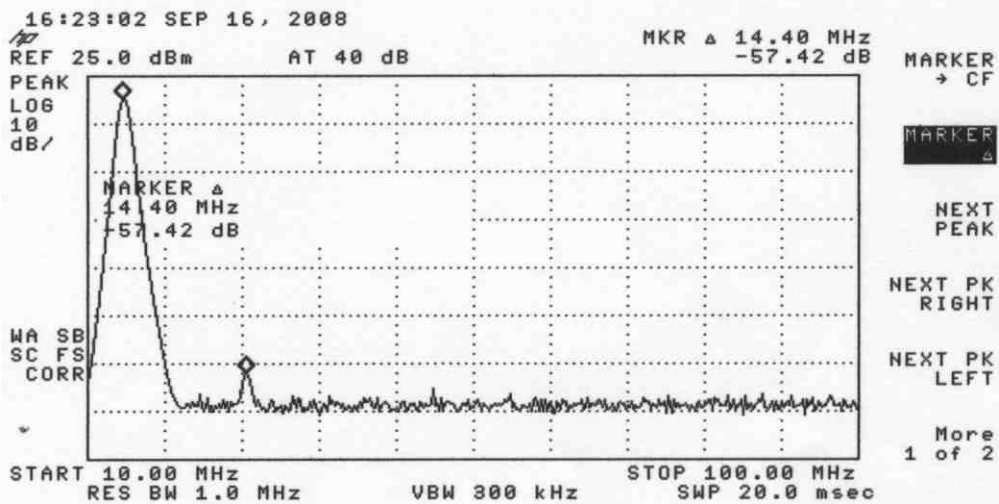
7.15 MHz 2nd harmonic -56.1 dB @ 1200W



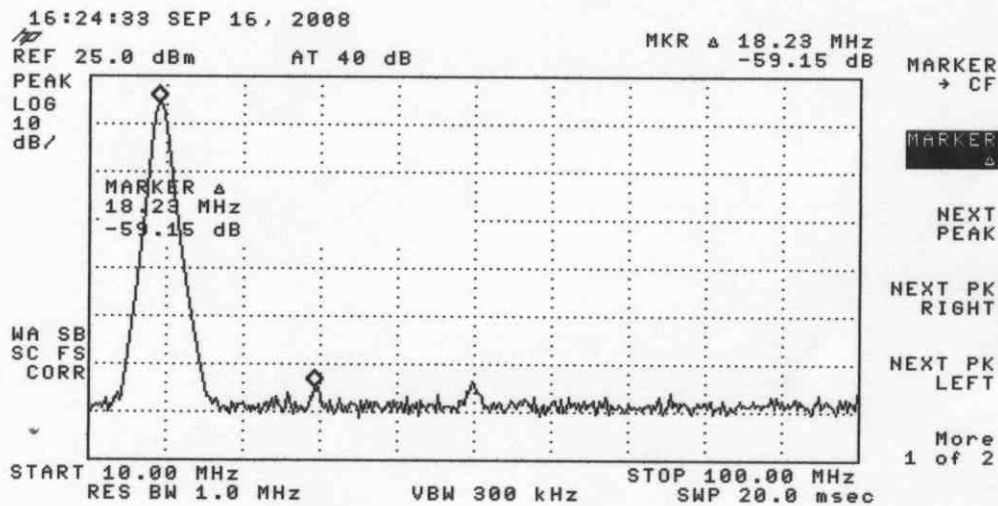
7.15 MHz 3rd harmonic -51.3 dB @ 1200W



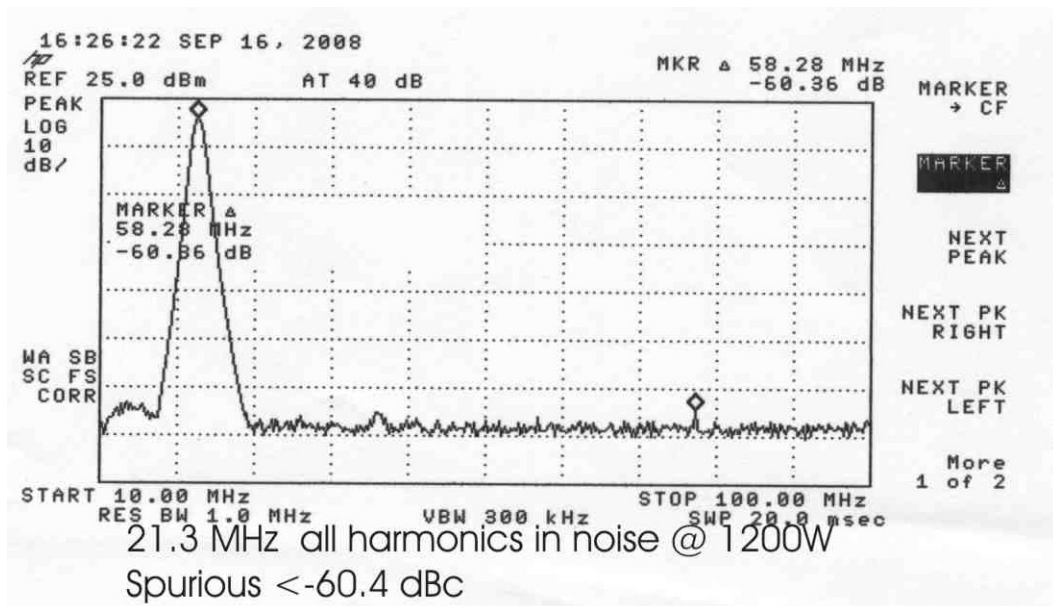
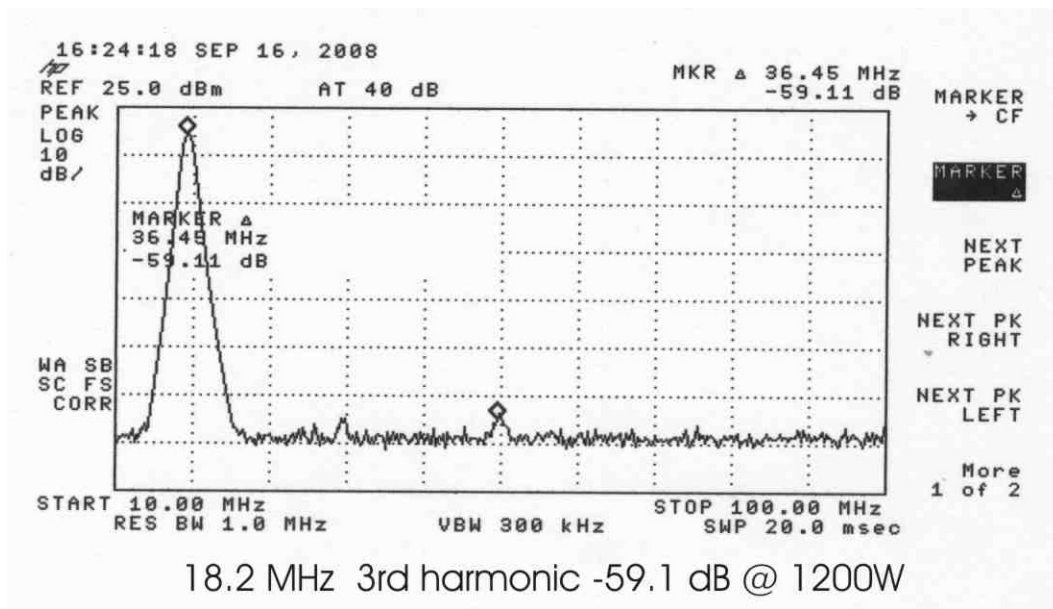
14.15 MHz 2nd harmonic -57.4 dB @ 1200W



14.15 MHz 3rd and higher harmonics in noise @ 1200W



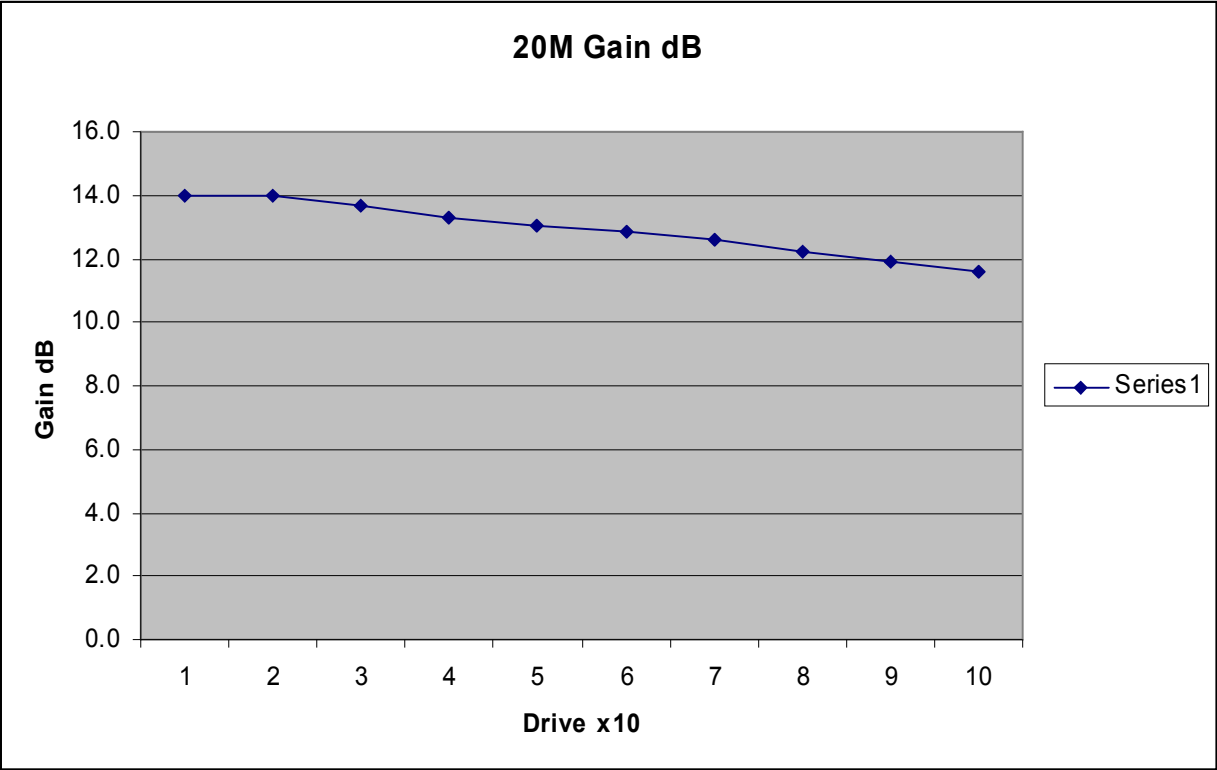
18.2 MHz 2nd harmonic -59.2 dB @ 1200W



Harmonics and spurious greatly exceed 97.307 requirements of -43 dBc. There are no measurable harmonics or spurious signals created when this device is in the standby position.

97.317 (2) Not be capable of amplifying the input RF power (driving signal) by more than 15 dB gain. Gain is defined as the ratio of the input RF power to the output RF power of the amplifier where both power measurements are expressed in peak envelope power or mean power.

20 Meters (14.15 MHz) is the highest gain band.

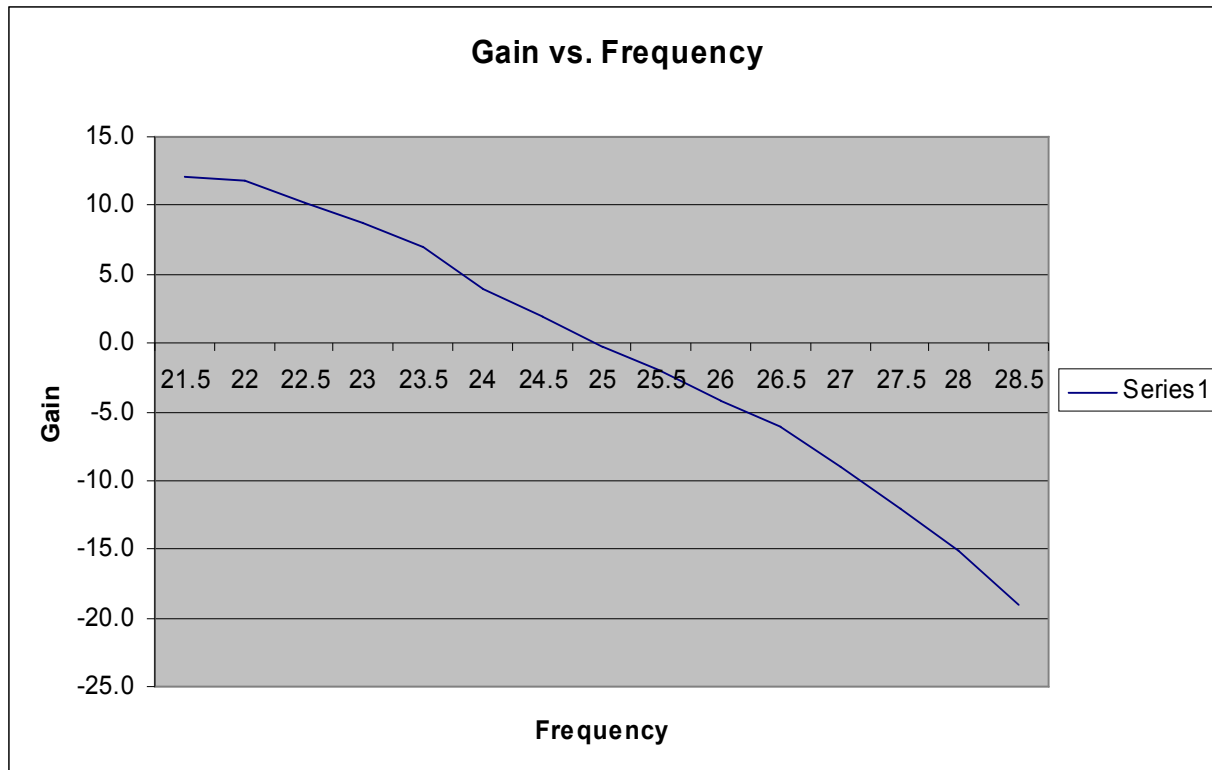


250	14.0
500	14.0
700	13.7
850	13.3
1000	13.0
1150	12.8
1275	12.6
1325	12.2
1400	11.9
1450	11.6
Output	Gain

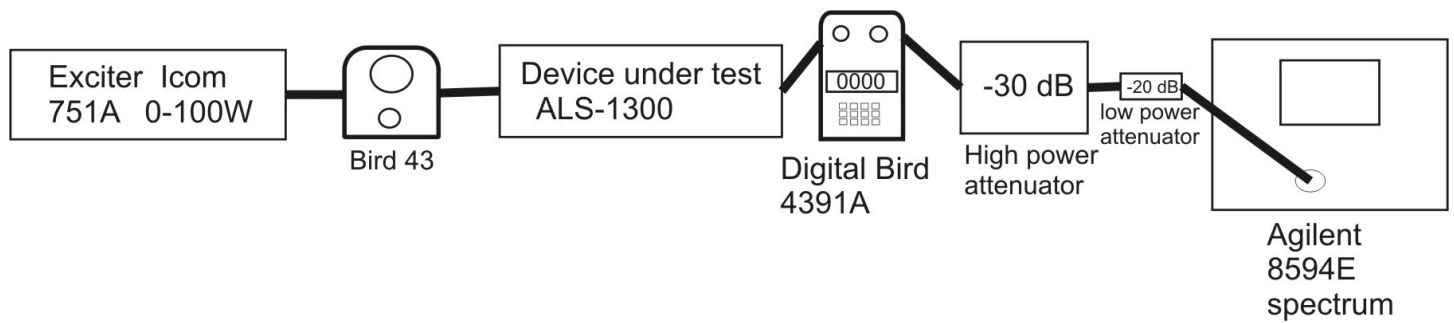
On the highest gain band, maximum gain is 14.0 dB.

97.317 (3) Exhibit no amplification (0 dB gain) between 26 MHz and 28 MHz.

Maximum gain in the highest frequency position:



The highest 20 MHz and higher gain position of the bandswitch has less than 0 dB gain from 26 to 28 MHz. This complies with 97.317(3)



Test setup gain and spectrum
ALS13 measurements all devices
50 ohm

Exciter: ICOM IC-751A amateur transceiver

Drive power meter: Standard Bird 43 with 100-watt element

Power output meter: Bird 4391A digital meter with 250 and 2500-watt elements

High power attenuator: Bird 8329 2000-watt attenuator

20 dB attenuator: Narda 50-ohm 20 dB attenuator

Spectrum Analyzer: Agilent 8594E