

**6.4 TEST TYPE:** Spurious Emissions at Antenna Terminals**6.4.1 TECHNICAL SPECIFICATION:** 2.991; 24.238(a)**6.4.2 TEST DATE(S):** 20 Aug 1999**6.4.3 MEASUREMENT PROCEDURES:**

As required by §2.991 of CFR 47, *spurious emissions at antenna terminal measurements* were made at the RF output terminals using a 50 Ω attenuator and spectrum analyzer set for a 30 kHz bandwidth. This test was performed with Digitally modulated carrier signals. The Digital signal generator was adjusted for continuous transmit on frequencies in both the uplink and down-link frequency bands. The frequency spectrum was investigated from 9.0 KHz to 20.0 GHz. For measuring emissions above 2 GHz, a high-pass filter was used to eliminate the fundamental transmit frequency to prevent possible saturation effects on the front end of the spectrum analyzer.

6.5.4 RESULTS:

Equipment complies with Section 2.991 and 24.238(a)

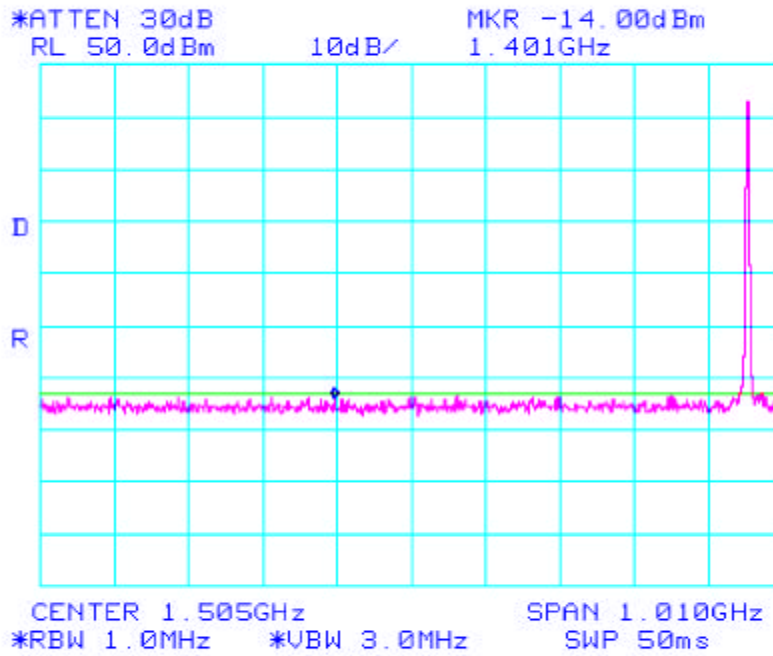
SUMMARY OF SPURIOUS EMISSIONS AT ANTENNA TERMINALS - DownLink (Base)

Frequency Range	Emission Frequency	Emission Level (dBm)	Limit (dBm)
0 - 1 GHz	881.7 MHz	-22.83	-13.1
1 - 2 GHz	1.401 GHz	-14.00	-13.1
2 - 2.90 GHz	2.063 GHz	-22.83	-13.1
2.90 - 5 GHz	3.919 GHz	-41.00	-13.1
5 - 9 GHz	5.893 GHz	-30.17	-13.1
9 - 20.0 GHz	19.74 GHz	-27.17	-13.1

Plots on the following pages illustrate compliance to the required rule parts.

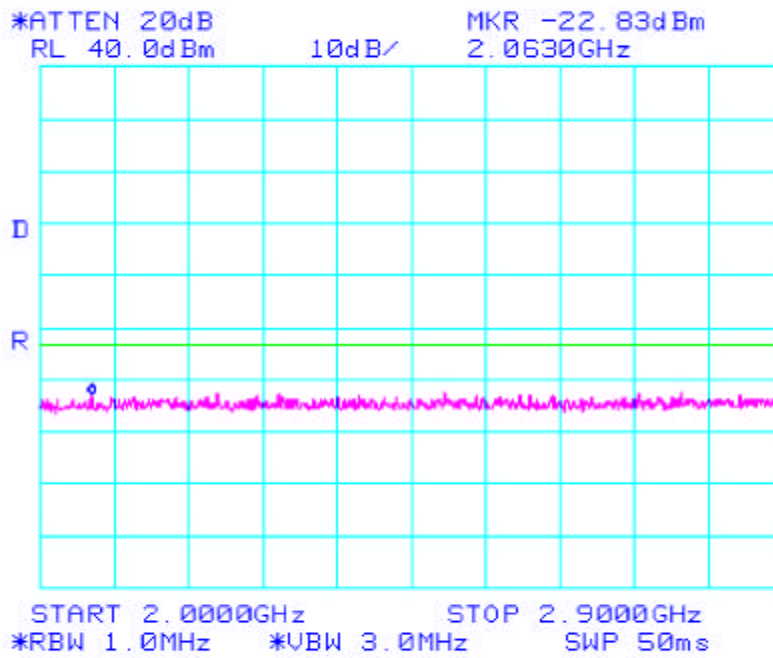


Conducted Spur emissions measured at Antenna Terminal
emi1249



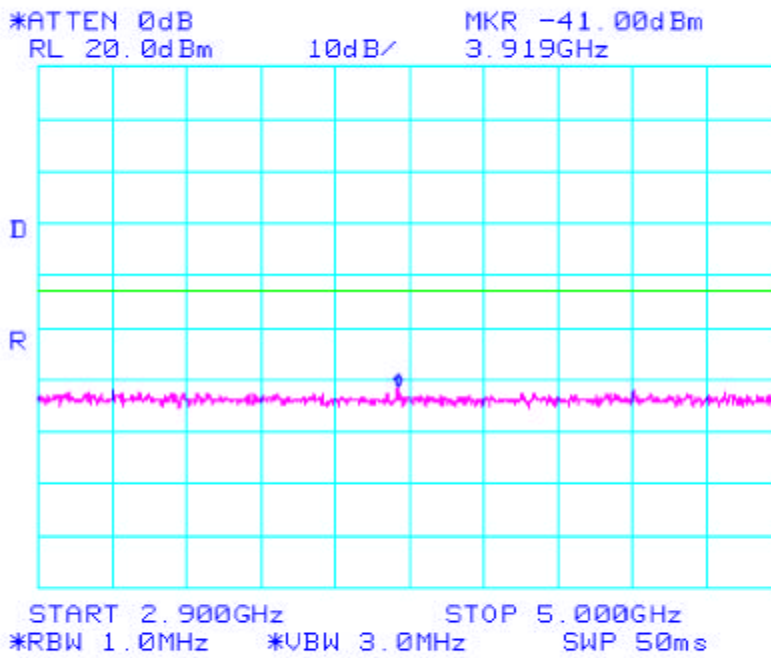


Conducted Spur emissions at Antenna Terminal
emi1249



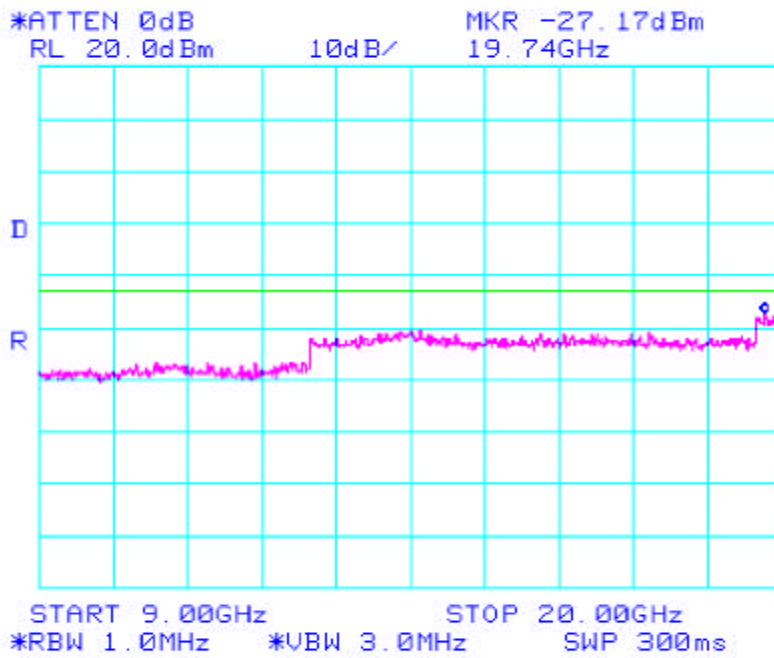


Conducted Spur emissions at Antenna Terminal
emi1249





Conducted Spur emissions at Antenna Terminal
emi1249





6.6 TEST TYPE: Spurious Emissions at Antenna Terminals @ Frequency Block
Edge +/- 1MHz

6.6.1 TECHNICAL SPECIFICATION: 47CFR2.991;24.238(b)

6.6.2 TEST DATE(S): 16 Aug 1999