

Figure 6-11: Quad-QPSK Modulation Performance Relative to Mask 47 CFR FCC 90-691(a),  
Maximum Power Setting:

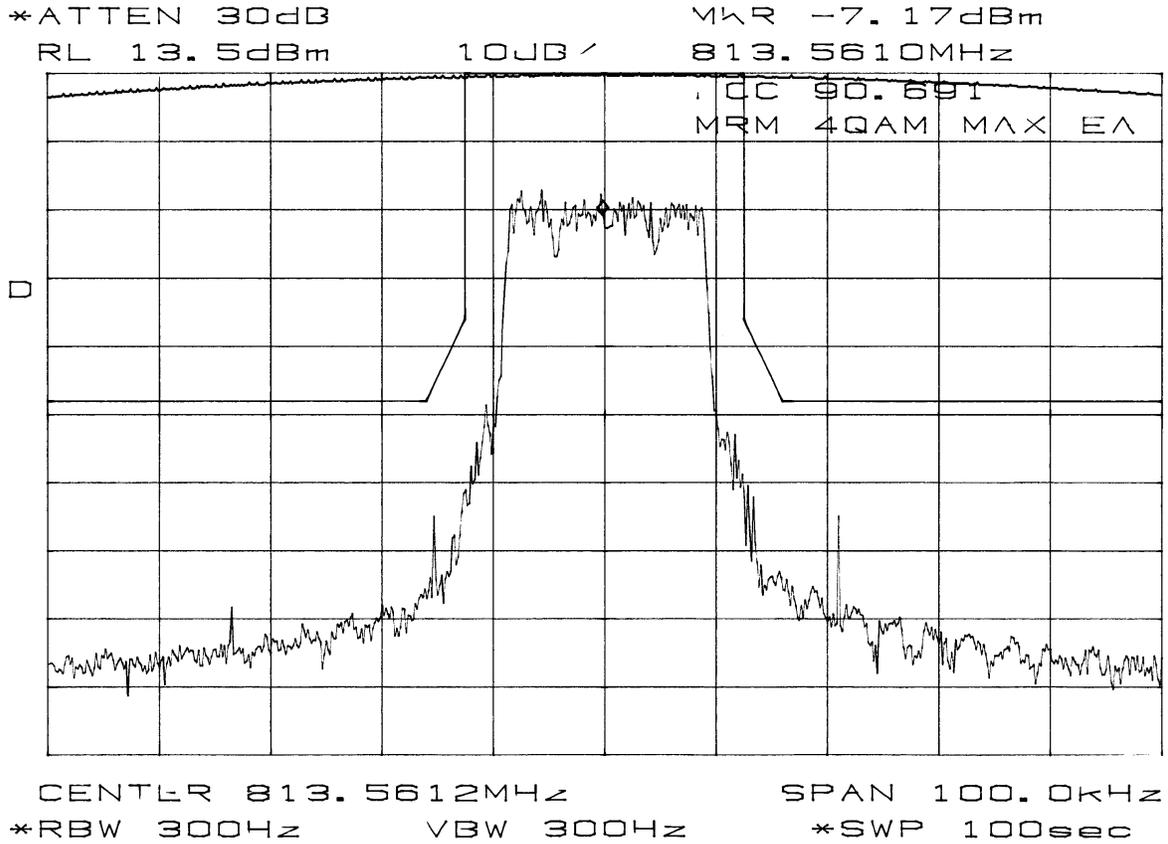


Figure 6-12: Quad-QPSK Modulation Performance Relative to Mask 47 CFR FCC 90-691(a),  
Minimum Power Setting:

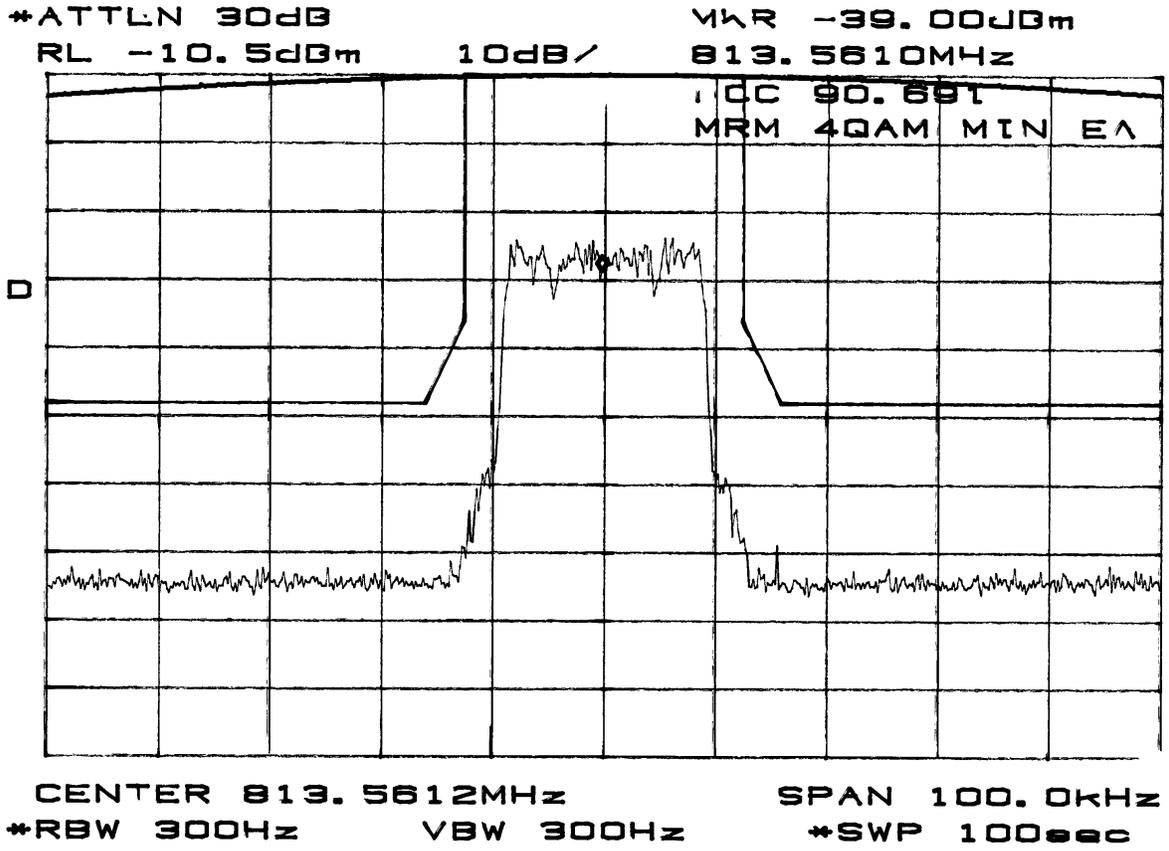


Figure 6-13: Quad-16QAM Modulation Performance Relative to Mask 47 CFR FCC 90-691(a),  
Maximum Power Setting:

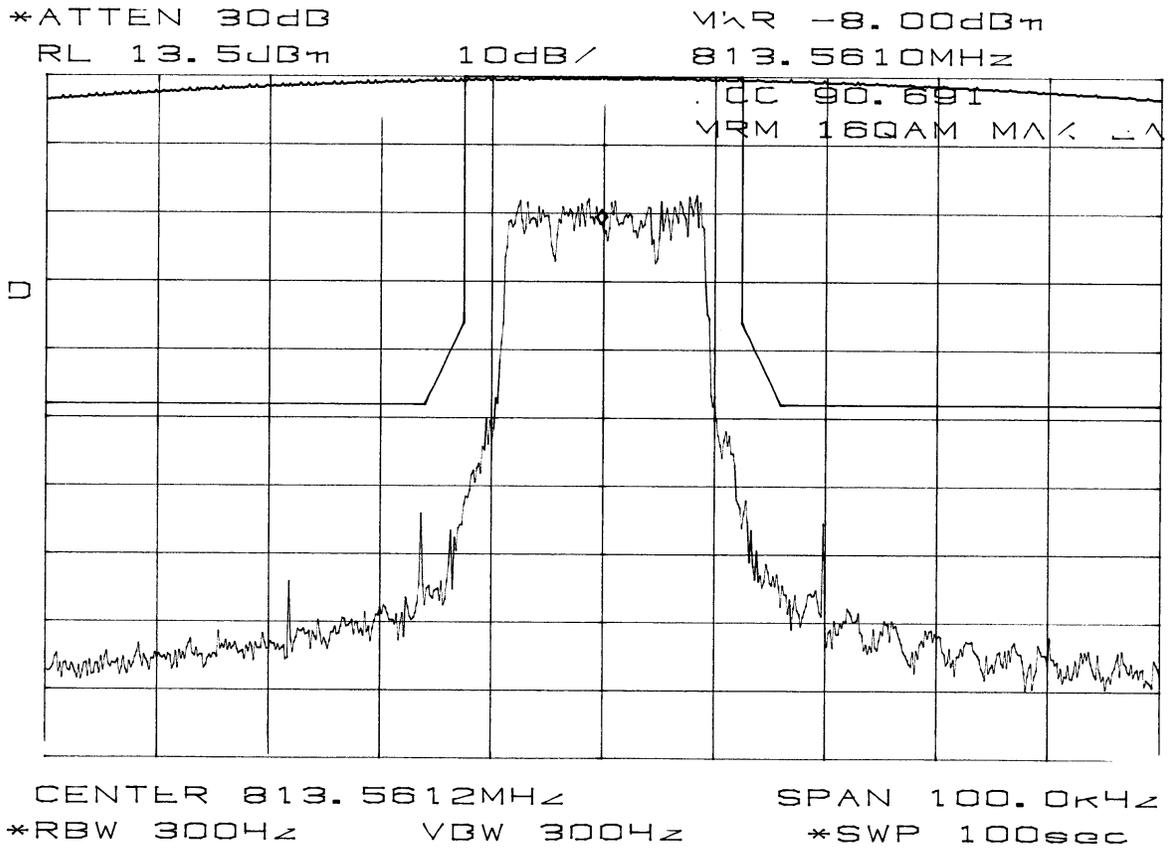


Figure 6-14: Quad-16QAM Modulation Performance Relative to Mask 47 CFR FCC 90-691(a),  
Minimum Power Setting:

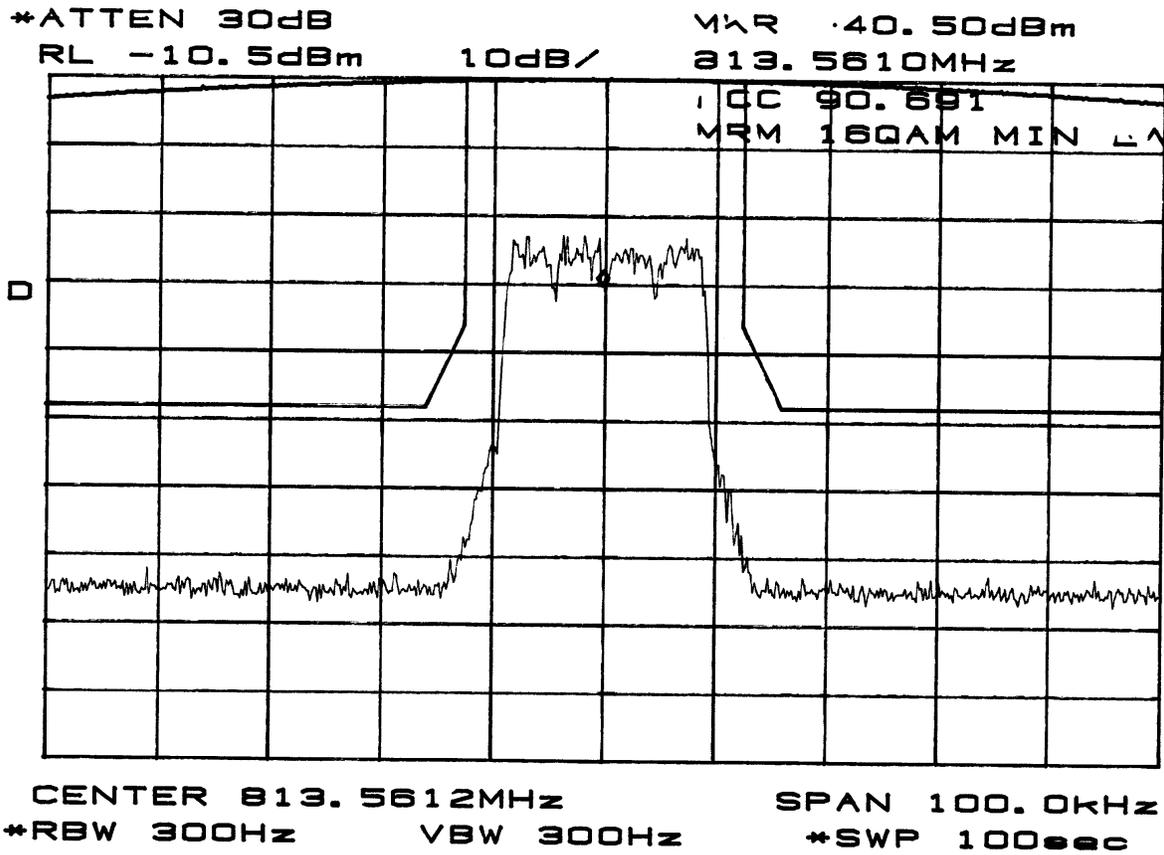


Figure 6-15: Quad-64QAM Modulation Performance Relative to Mask 47 CFR FCC 90-691(a),  
Maximum Power Setting:

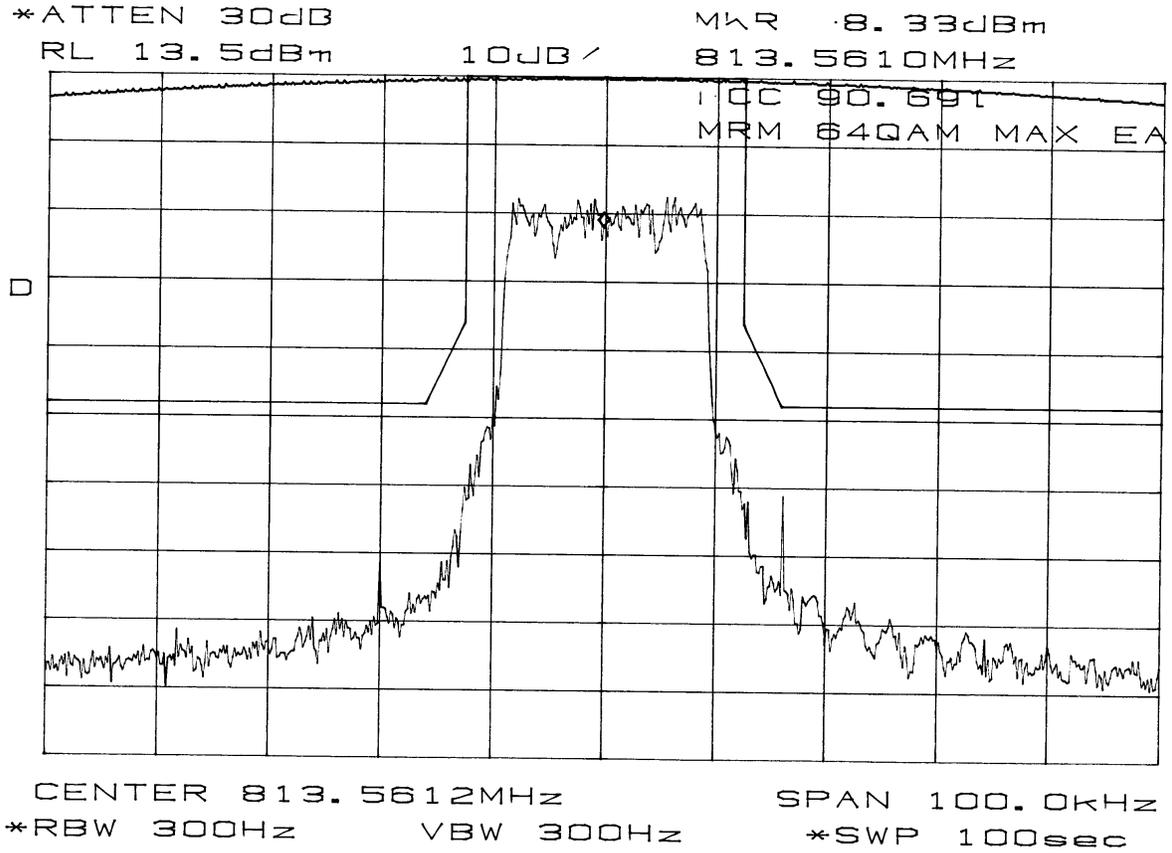
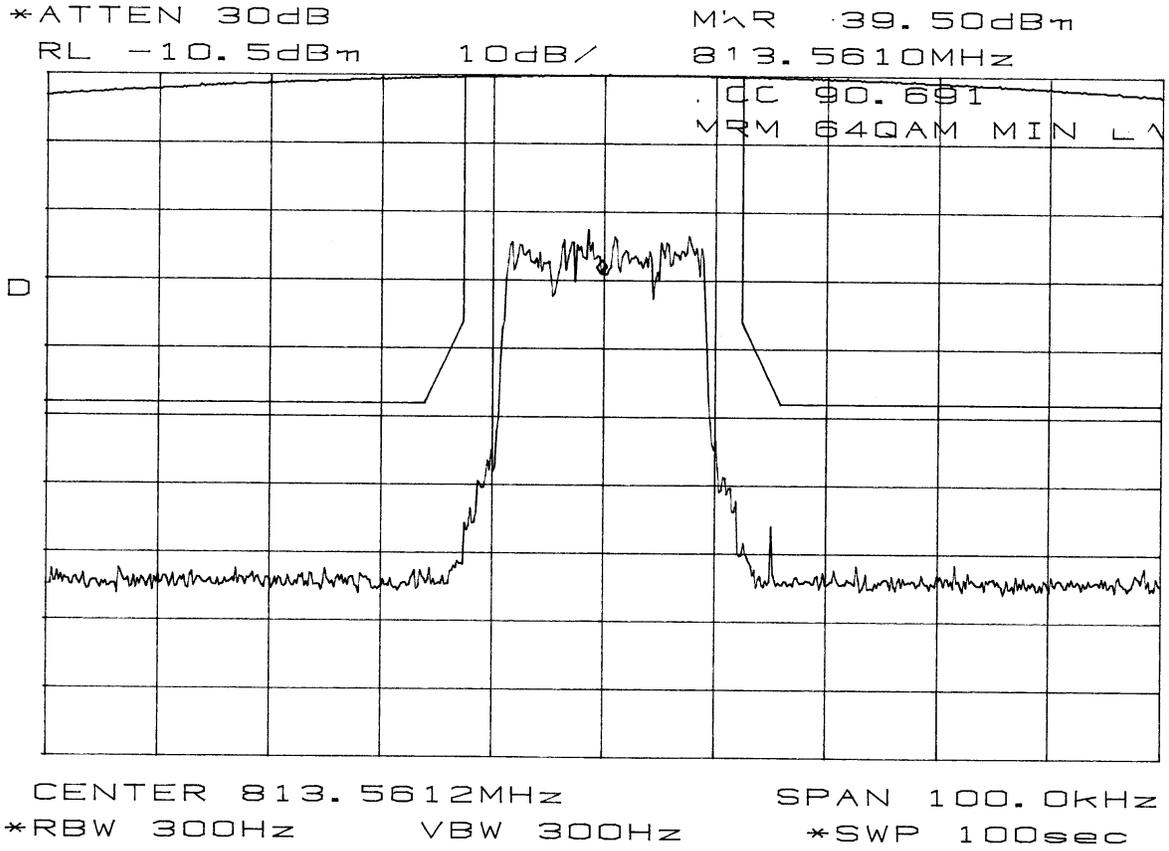


Figure 6-16: Quad-64QAM Modulation Performance Relative to Mask 47 CFR FCC 90-691(a), Minimum Power Setting:



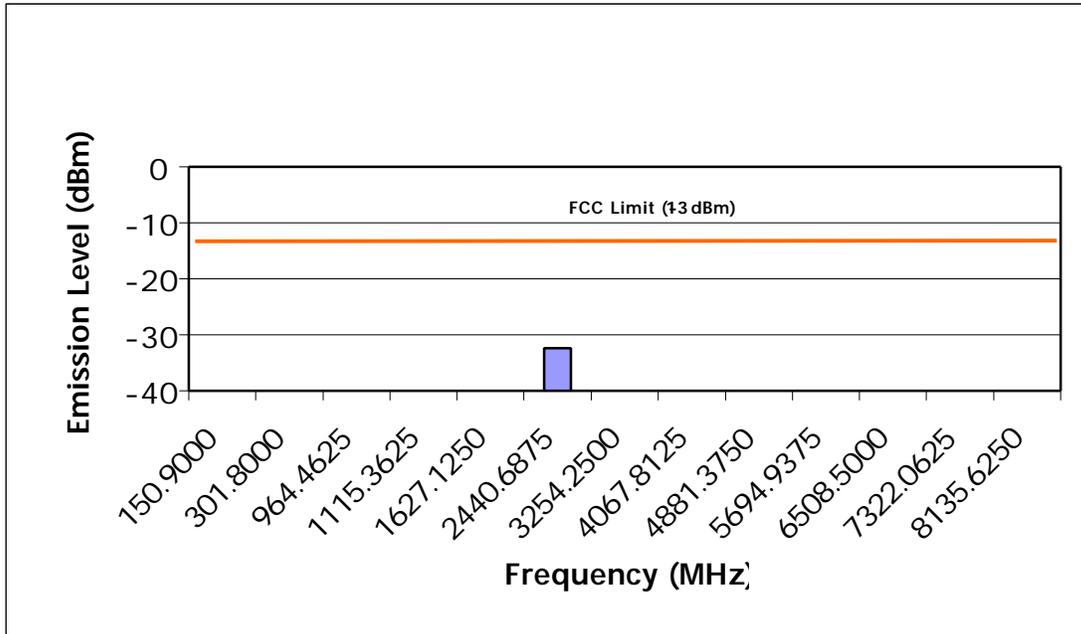
**6.4. Radiated Spurious Emissions Data -- Pursuant 47 CFR 2.1053, 2.1057, 90.210(g) and 90.691(a).**

FCC Limits

Radidated spurious emissions shall be attenuated below the maximum level of emission of the carrier frequency in accordance with the following formula:

Spurious attenuation (dB) =  $43 + 10 \log_{10} (P)$ , P = Power output in watts.

**Fig. 6-17: Radiated Transmitter Emissions, Tx frequency 813.5625 MHz, Maximum Power, and Horizontally Polarized Antenna.**

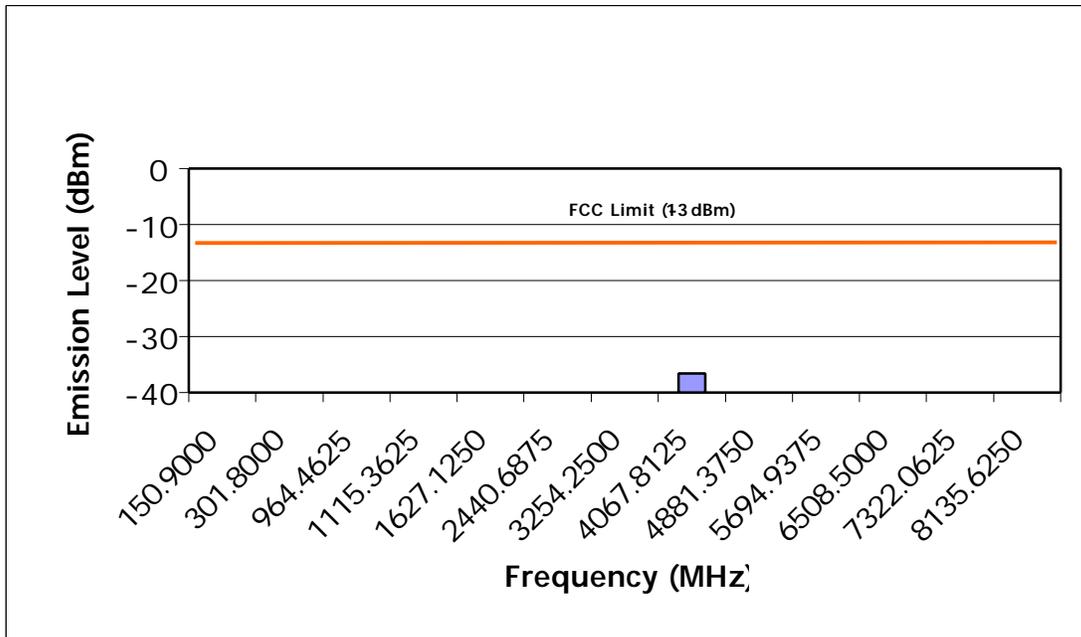


**Table 6-1: Radiated Transmitter Emissions, Tx frequency 813.5625 MHz, Maximum Power, and Horizontally Polarized Antenna.**

Title	Frequency (MHz)	FCC Maximum Emission Limit (dBm)	Measured Emission Equivalent Power Into an Ideal Dipole (dBm)
IF	150.9000	-13	<-40
2X IF	301.8000	-13	<-40
LO	964.4625	-13	<-40
IF + LO	1115.3625	-13	<-40
2X FUND	1627.1250	-13	<-40
3X FUND	2440.6875	-13	-32.39
4X FUND	3254.2500	-13	<-40
5X FUND	4067.8125	-13	<-40
6X FUND	4881.3750	-13	*
7X FUND	5694.9375	-13	*
8X FUND	6508.5000	-13	*
9X FUND	7322.0625	-13	*
10XFUND	8135.6250	-13	*

Note: Measured noise floor (-93 dBm), limited by test setup and equipment.

**Fig. 6-18: Radiated Transmitter Emissions, Tx frequency 813.5625 MHz, Maximum Power, and Vertically Polarized Antenna.**



**Table 6-2: Radiated Transmitter Emissions, Tx frequency 813.5625 MHz, Maximum Power, and Vertically Polarized Antenna.**

Title	Frequency (MHz)	FCC Maximum Emission Limit (dBm)	Measured Emission Equivalent Power Into an Ideal Dipole (dBm)
IF	150.9000	-13	<-40
2X IF	301.8000	-13	<-40
LO	964.4625	-13	<-40
IF + LO	1115.3625	-13	<-40
2X FUND	1627.1250	-13	<-40
3X FUND	2440.6875	-13	<-40
4X FUND	3254.2500	-13	-36.6
5X FUND	4067.8125	-13	<-40
6X FUND	4881.3750	-13	*
7X FUND	5694.9375	-13	*
8X FUND	6508.5000	-13	*
9X FUND	7322.0625	-13	*
10XFUND	8135.6250	-13	*

Note: Measured noise floor (-93 dBm), limited by test setup and equipment.

**Table 6-3: Radiated Transmitter Emissions, Tx frequency 813.5625 MHz, Minimum Power, and Horizontally Polarized Antenna.**

Title	Frequency (MHz)	FCC Maximum Emission Limit (dBm)	Measured Emission Equivalent Power Into an Ideal Dipole (dBm)
IF	150.9000	-13	<-40
2X IF	301.8000	-13	<-40
LO	964.4625	-13	<-40
IF + LO	1115.3625	-13	<-40
2X FUND	1627.1250	-13	<-40
3X FUND	2440.6875	-13	<-40
4X FUND	3254.2500	-13	<-40
5X FUND	4067.8125	-13	<-40
6X FUND	4881.3750	-13	*
7X FUND	5694.9375	-13	*
8X FUND	6508.5000	-13	*
9X FUND	7322.0625	-13	*
10XFUND	8135.6250	-13	*

**Table 6-4: Radiated Transmitter Emissions, Tx frequency 813.5625 MHz, Minimum Power, and Vertically Polarized Antenna.**

Title	Frequency (MHz)	FCC Maximum Emission Limit (dBm)	Measured Emission Equivalent Power Into an Ideal Dipole (dBm)
IF	150.9000	-13	<-40
2X IF	301.8000	-13	<-40
LO	964.4625	-13	<-40
IF + LO	1115.3625	-13	<-40
2X FUND	1627.1250	-13	<-40
3X FUND	2440.6875	-13	<-40
4X FUND	3254.2500	-13	<-40
5X FUND	4067.8125	-13	<-40
6X FUND	4881.3750	-13	*
7X FUND	5694.9375	-13	*
8X FUND	6508.5000	-13	*
9X FUND	7322.0625	-13	*
10XFUND	8135.6250	-13	*

Note: Measured noise floor (-93 dBm), limited by test setup and equipment.