

**Figure 6-11: Quad-QPSK Modulation performance relative to mask 47 CFR FCC 90-691(a).
MAX. POWER (600mW):**

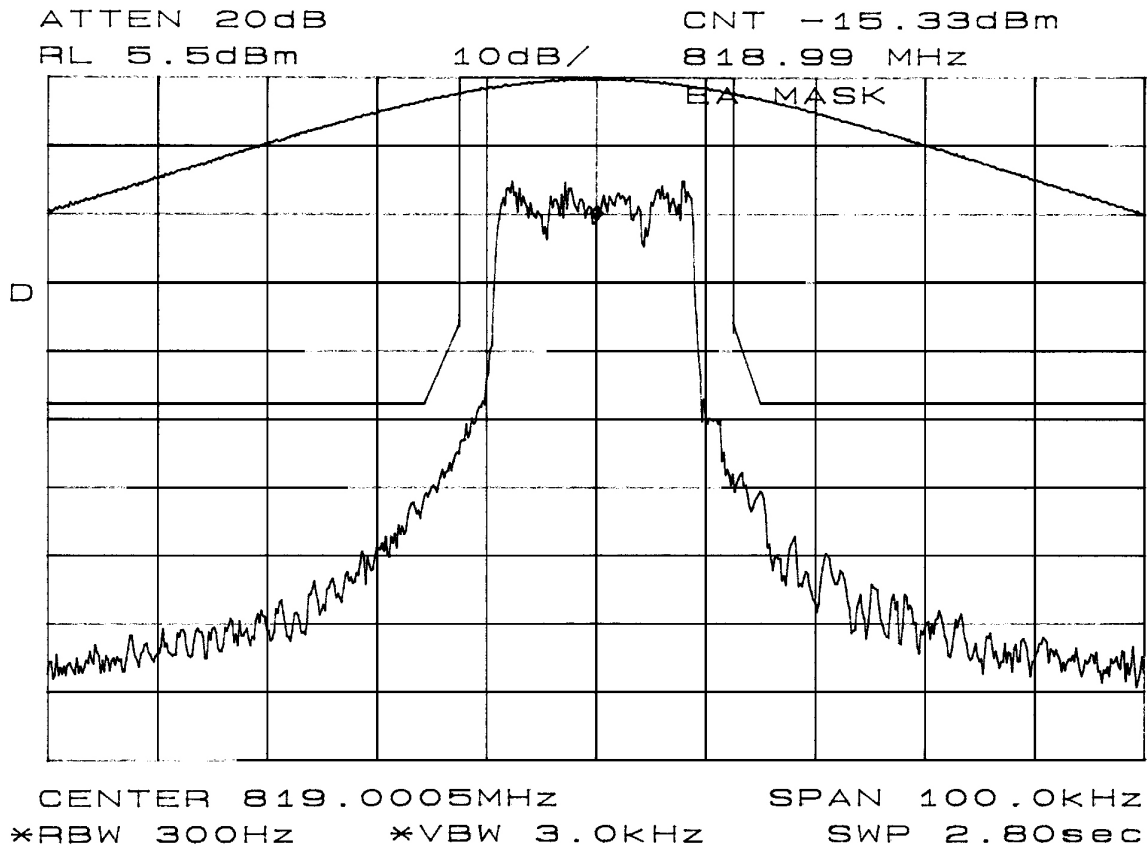


**Figure 6-12: Quad-QPSK Modulation performance relative to mask 47 CFR FCC 90-691(a).
MIN. POWER (2.4mW):**

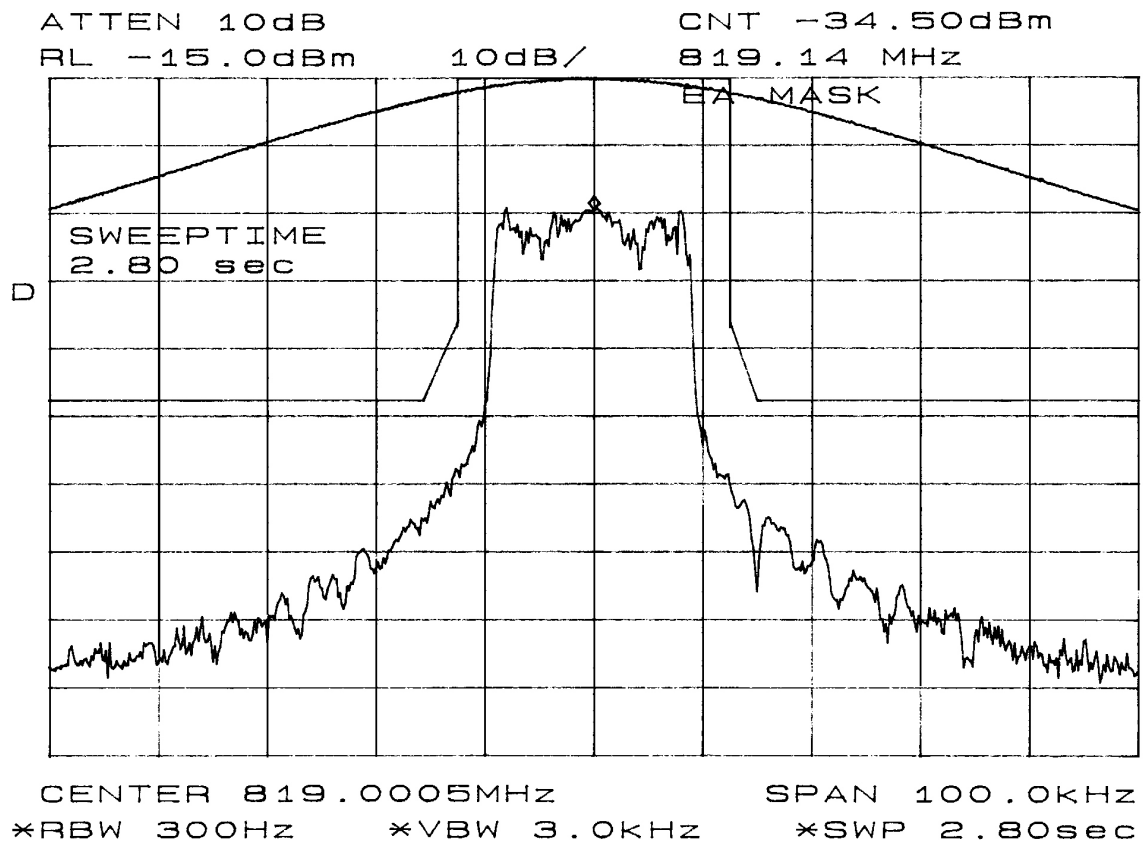


**Figure 6-13: Quad-16QAM Modulation performance relative to mask 47 CFR FCC 90-691(a).
MAX. POWER (600mW):**

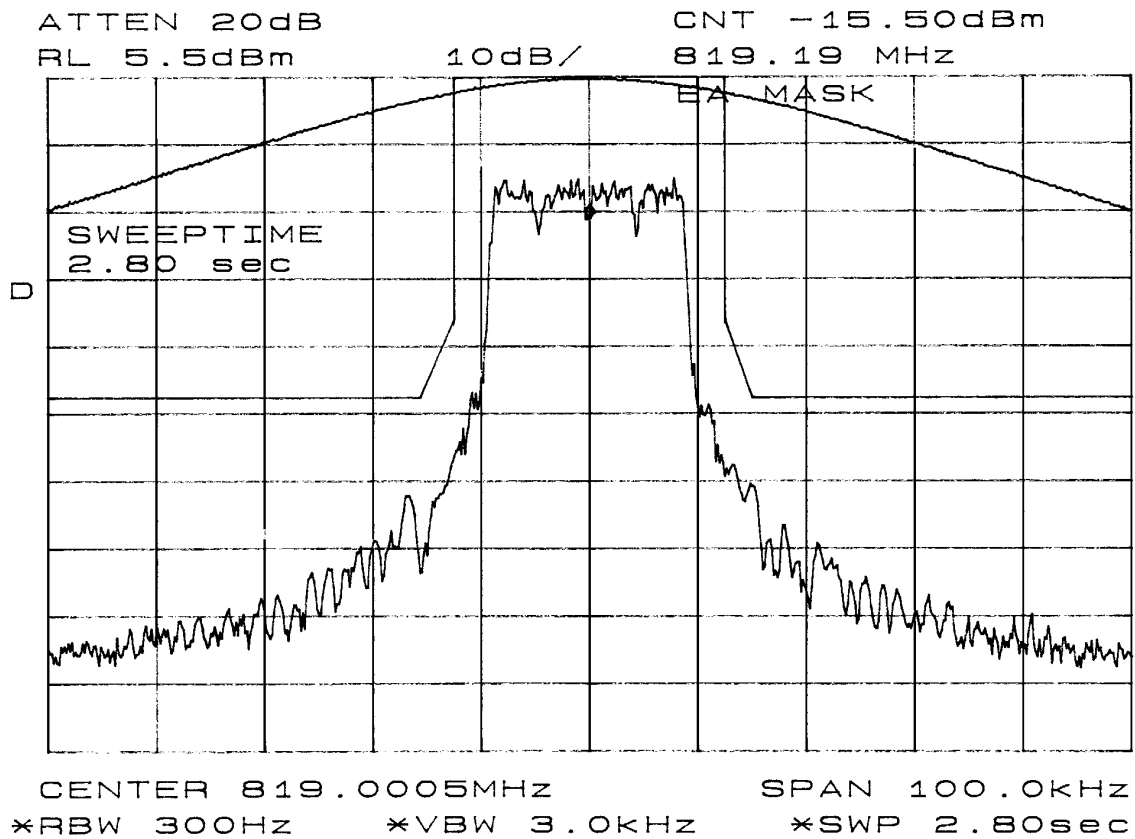


**Figure 6-14: Quad-16QAM Modulation performance relative to mask 47 CFR FCC 90-691(a).
MIN. POWER (2.4mW):**

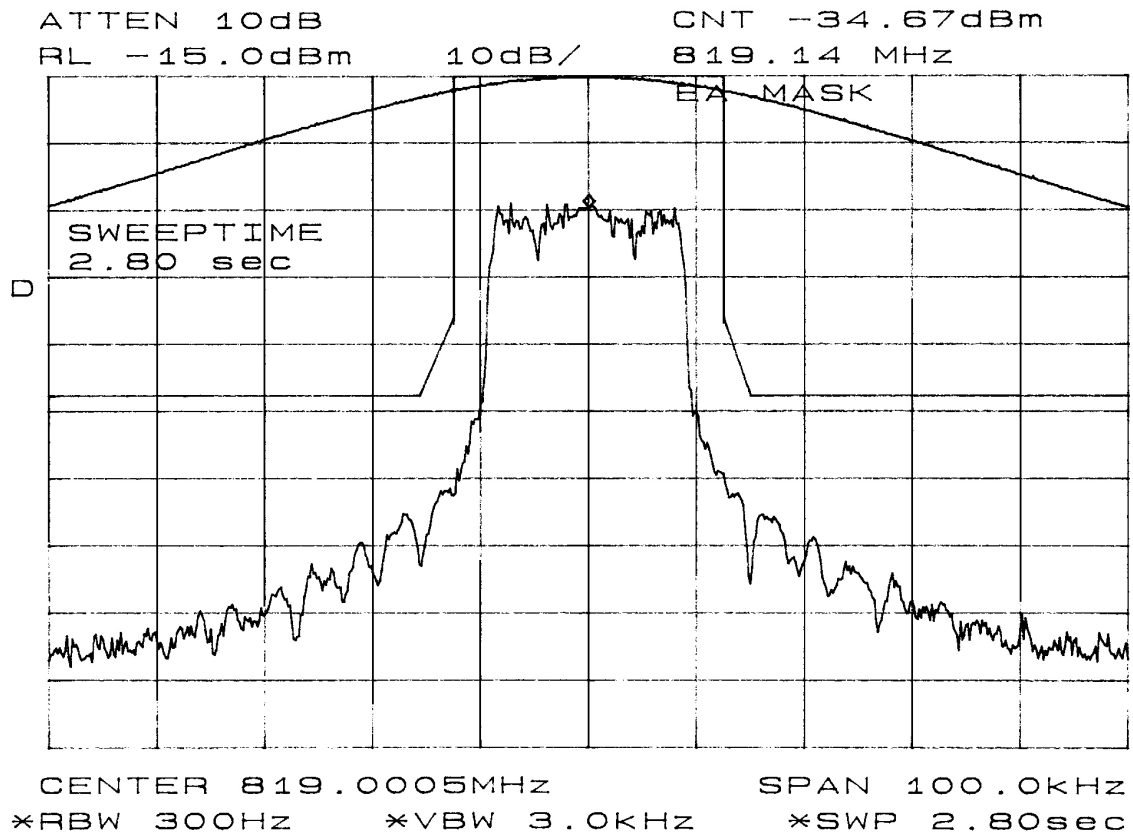


**Figure 6-15: Quad-64QAM Modulation performance relative to mask 47 CFR FCC 90-691(a).
MAX. POWER (600mW):**

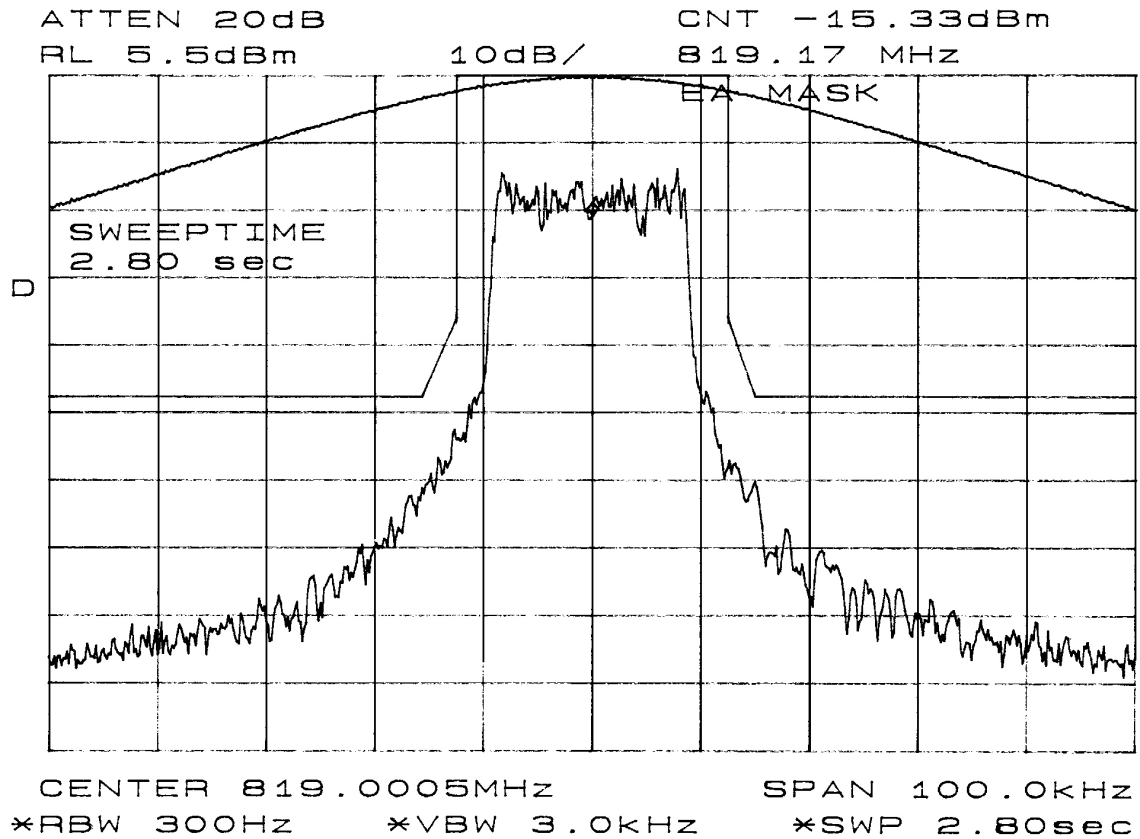
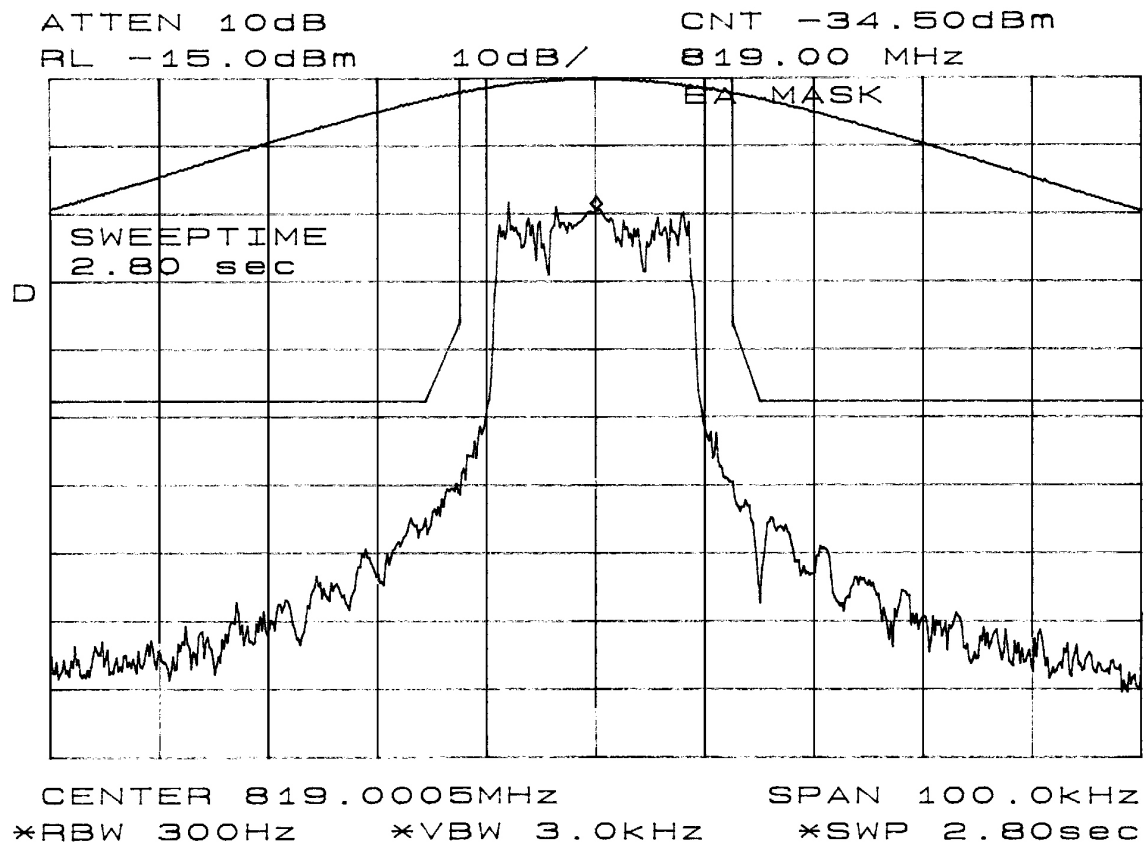


**Figure 6-16: Quad-64QAM Modulation performance relative to mask 47 CFR FCC 90-691(a).
MIN. POWER (2.4mW):**



6.4. Radiated Spurious Emissions Data

-- Pursuant 47 CFR 2.993, 2.997, 90.210(g) and 90.691(a)

FCC Limits -

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

Spurious attenuation in dB = $43 + 10 \log_{10} (P)$ (P = Power output in watts, 0.6 watts in this case)

**Figure 6-17: Radiated Transmitter Emissions (Quad-QPSK)
Horizontally Polarized Antenna- Maximum Power (600mW)**

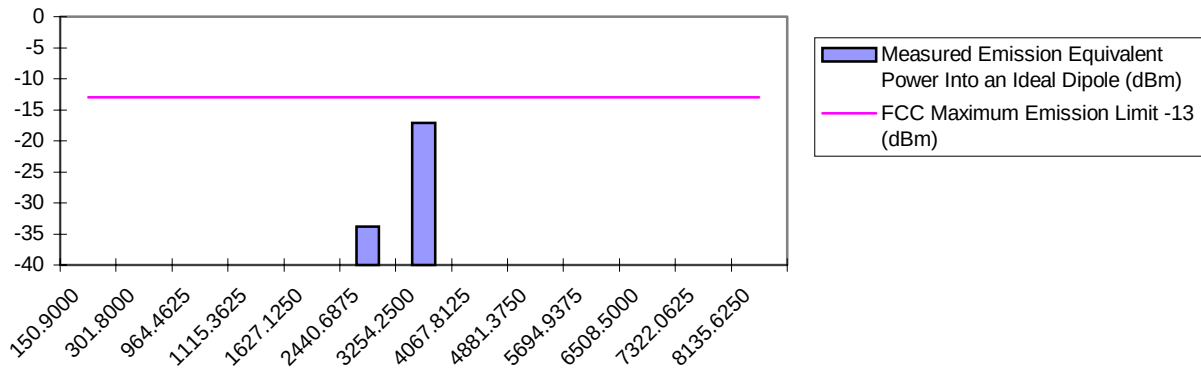


**Table 6-1: Radiated Transmitter Emissions for Quad-QPSK Modulation with
Horizontally Polarized Antenna at Maximum Power (600mW).**

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	-33.86
4X FUND	3254.2500	-13	-17.07
5X FUND	4067.8125	-13	<-40
6X FUND	4881.3750	-13	<-40
7X FUND	5694.9375	-13	<-40
8X FUND	6508.5000	-13	*
9X FUND	7322.0625	-13	*
10XFUND	8135.6250	-13	*

* Note: Measured noise floor (-30.27dBm), limited by test setup and equipment.

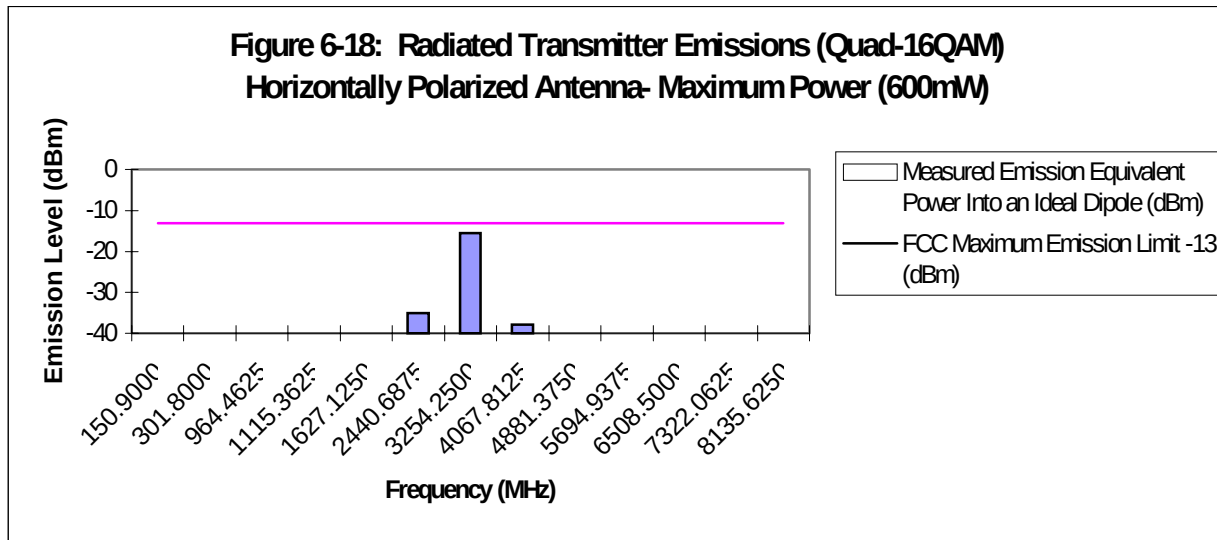


Table 6-2: Radiated Transmitter Emissions for Quad-16QAM Modulation with Horizontally Polarized Antenna at Maximum Power (600mW).

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	-35.08
4X FUND	3254.2500	-13	-15.6
5X FUND	4067.8125	-13	-37.86
6X FUND	4881.3750	-13	<-40
7X FUND	5694.9375	-13	<-40
8X FUND	6508.5000	-13	*
9X FUND	7322.0625	-13	*
10XFUND	8135.6250	-13	*

* Note: Measured noise floor (-30.27dBm), limited by test setup and equipment.

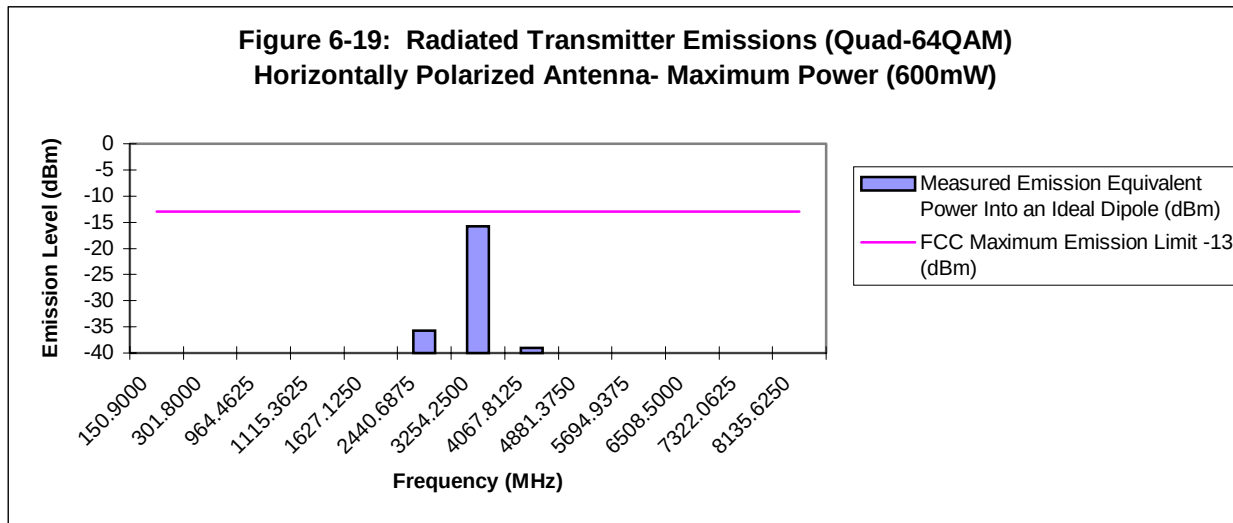


**Table 6-3: Radiated Transmitter Emissions for Quad-64QAM Modulation with
Horizontally Polarized Antenna at Maximum Power (600mW).**

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	-35.72
4X FUND	3254.2500	-13	-15.78
5X FUND	4067.8125	-13	-39
6X FUND	4881.3750	-13	<-40
7X FUND	5694.9375	-13	<-40
8X FUND	6508.5000	-13	*
9X FUND	7322.0625	-13	*
10XFUND	8135.6250	-13	*

* Note: Measured noise floor (-30.27dBm), limited by test setup and equipment.

Table 6-4: Radiated Transmitter Emissions for Quad-QPSK Modulation with Horizontally Polarized Antenna at Minimum Power (2.4 mW).

(No chart is shown because all measured emissions were below -40dBm)

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	<-40
7X FUND	5694.9375	-13	*
8X FUND	6508.5000	-13	*
9X FUND	7322.0625	-13	*
10XFUND	8135.6250	-13	*

* Note: Measured noise floor (-30.27dBm), limited by test setup and equipment.

Table 6-5: Radiated Transmitter Emissions for Quad-16QAM Modulation with Horizontally Polarized Antenna at Minimum Power (2.4 mW).

(No chart is shown because all measured emissions were below -40dBm)

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	<-40
7X FUND	5694.9375	-13	<-40
8X FUND	6508.5000	-13	*
9X FUND	7322.0625	-13	*
10XFUND	8135.6250	-13	*

* Note: Measured noise floor (-30.27dBm), limited by test setup and equipment.

Table 6-6: Radiated Transmitter Emissions for Quad-64QAM Modulation with Horizontally Polarized Antenna at Minimum Power (2.4 mW).

(No chart is shown because all measured emissions were below -40dBm)

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	<-40
7X FUND	5694.9375	-13	<-40
8X FUND	6508.5000	-13	*
9X FUND	7322.0625	-13	*
10XFUND	8135.6250	-13	*

* Note: Measured noise floor (-30.27dBm), limited by test setup and equipment.