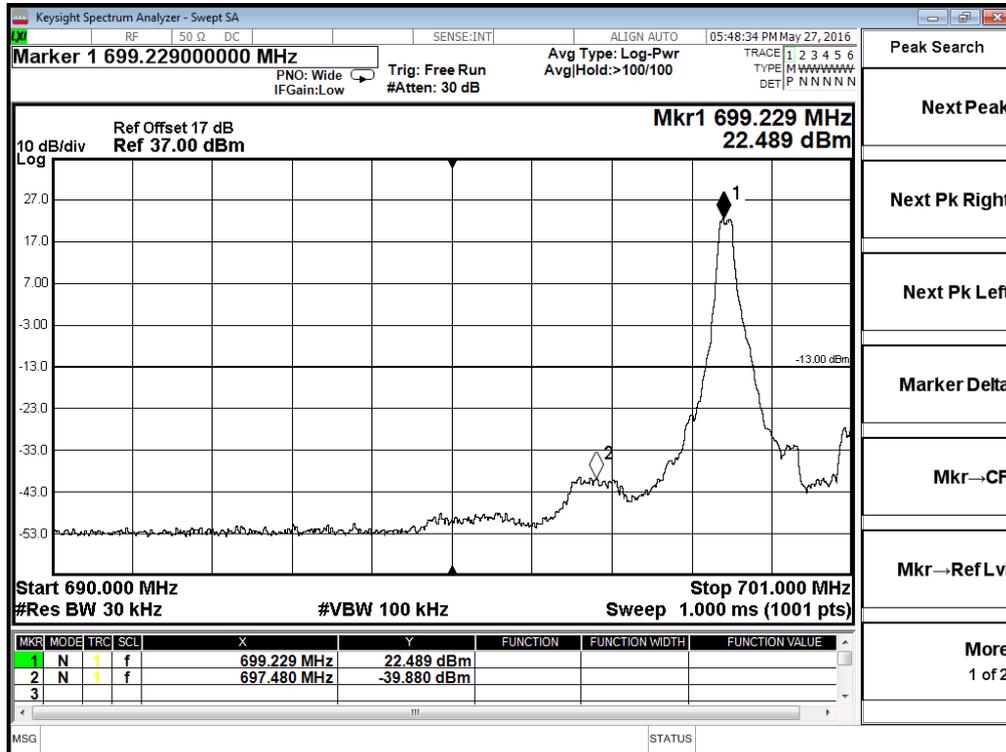
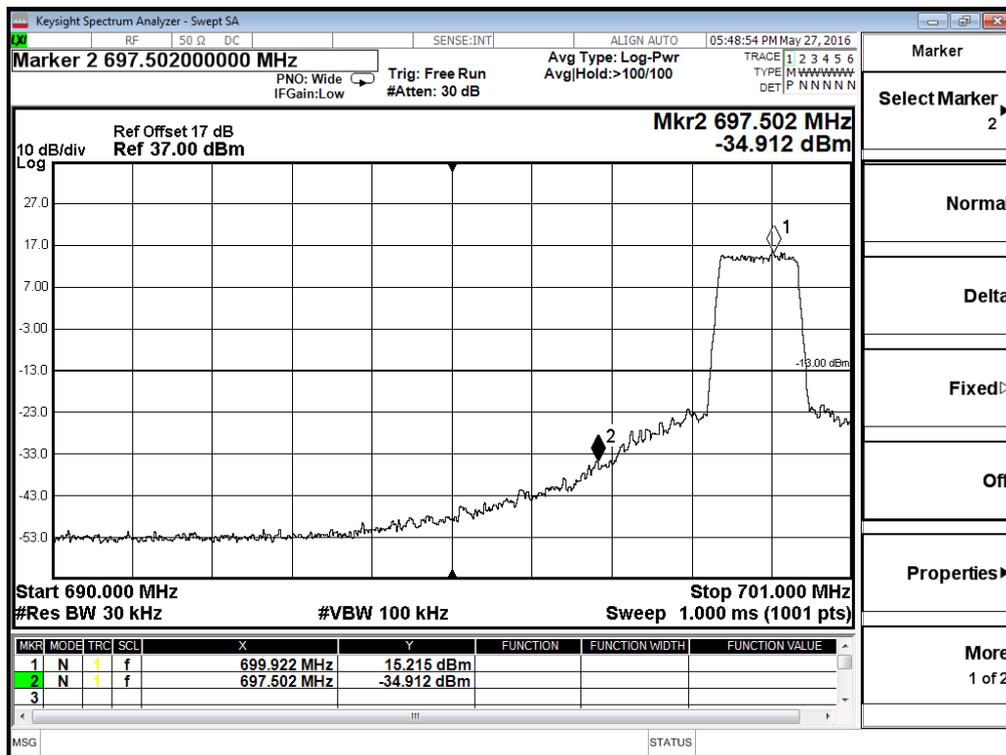




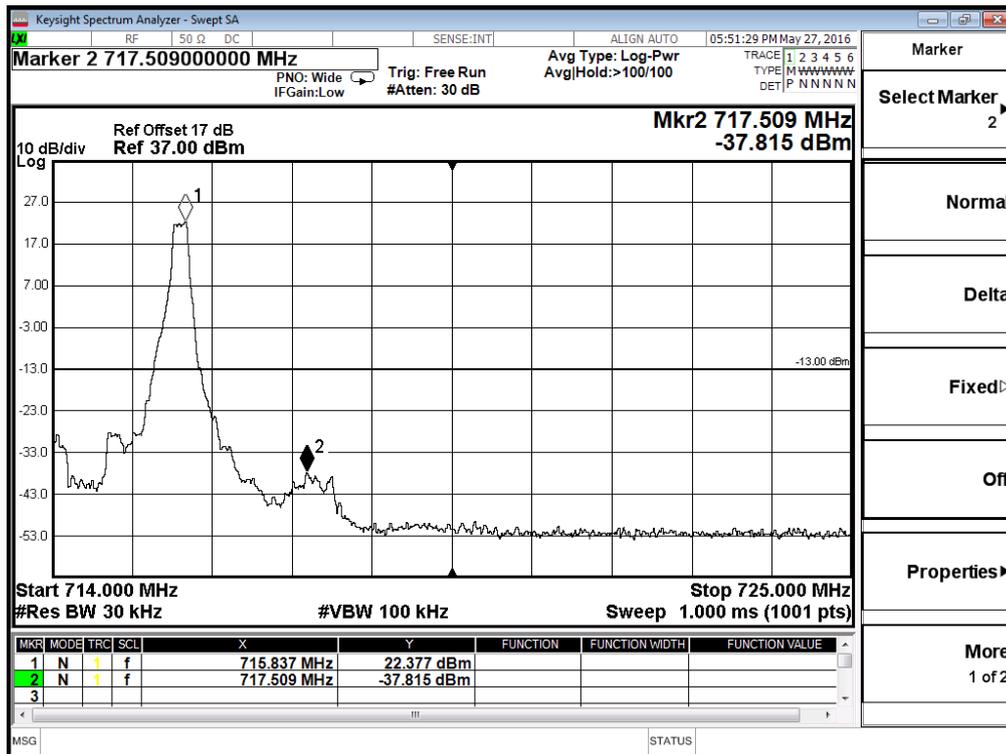
Band	LTE Band 12	Modulation	16QAM
Bandwidth	1.4MHz		



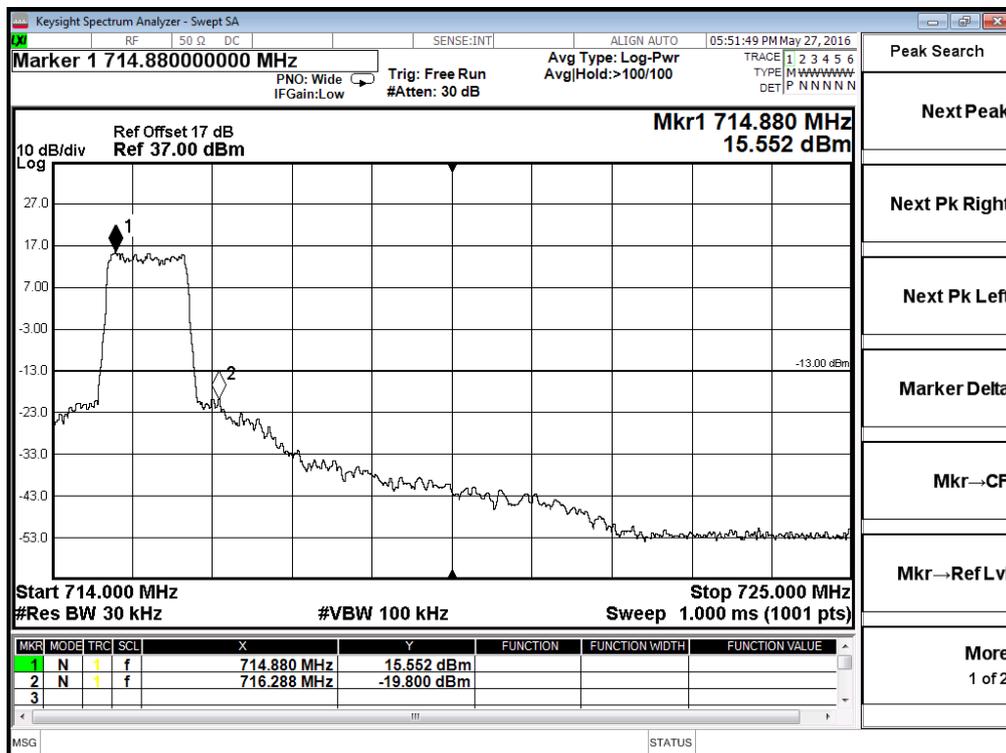
Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0



Lower Band Edge Plot for 16QAM -RB Size 6, RB Offset 0



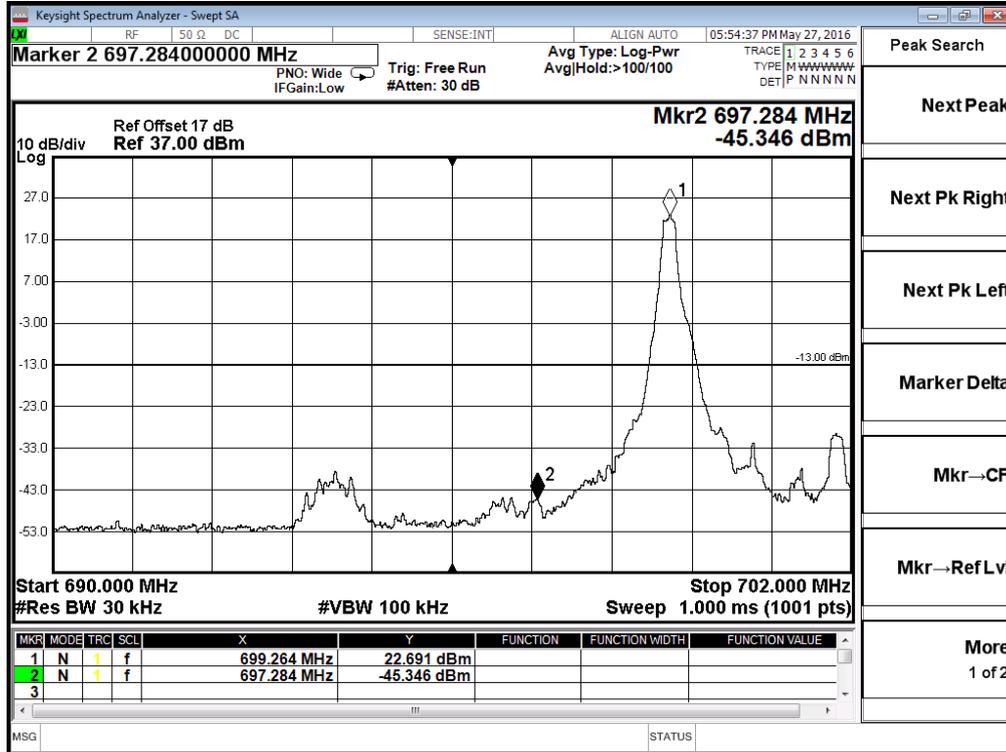
Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 5



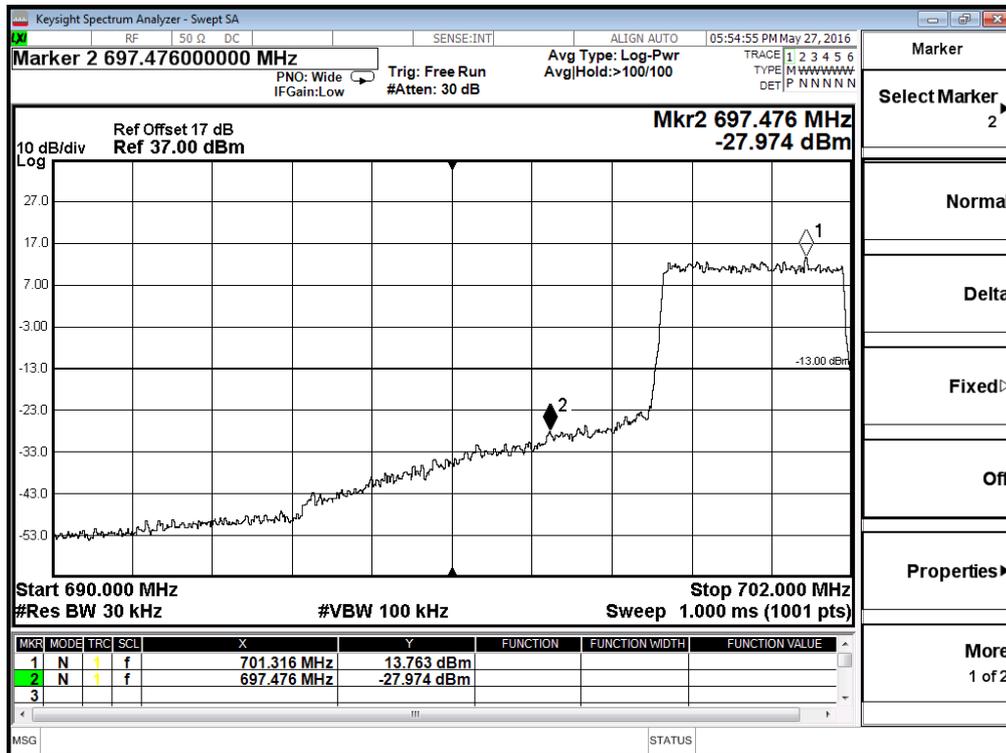
Higher Band Edge Plot for 16QAM -RB Size 6, RB Offset 0



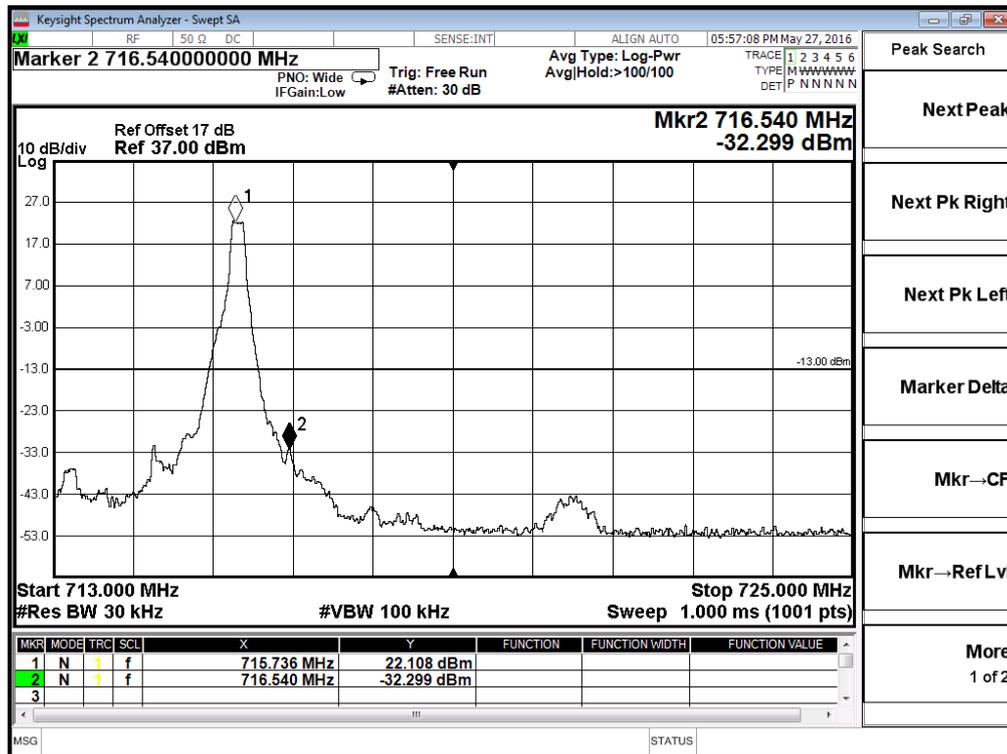
Band	LTE Band 12	Modulation	QPSK
Bandwidth	3MHz		



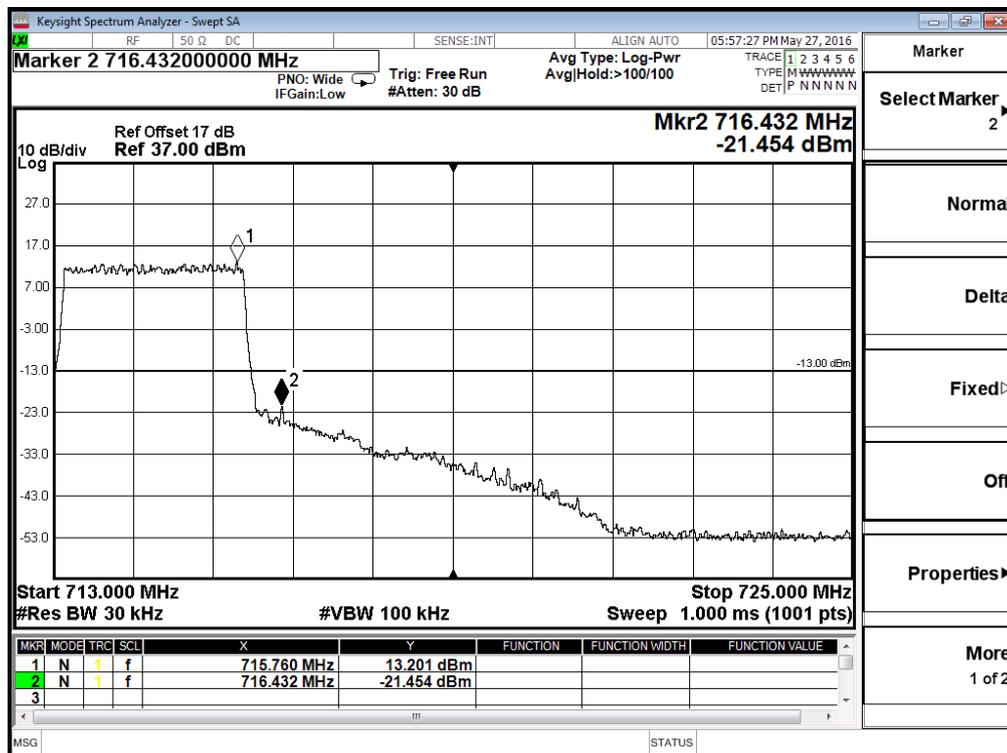
Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Lower Band Edge Plot for QPSK-RB Size 15, RB Offset 0



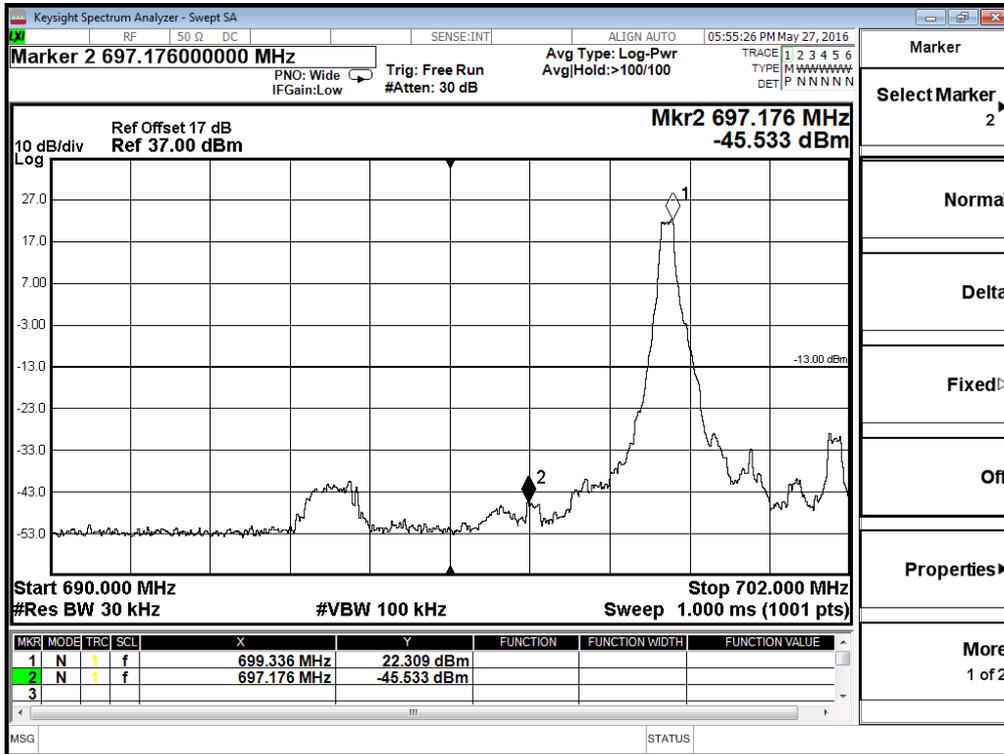
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 14



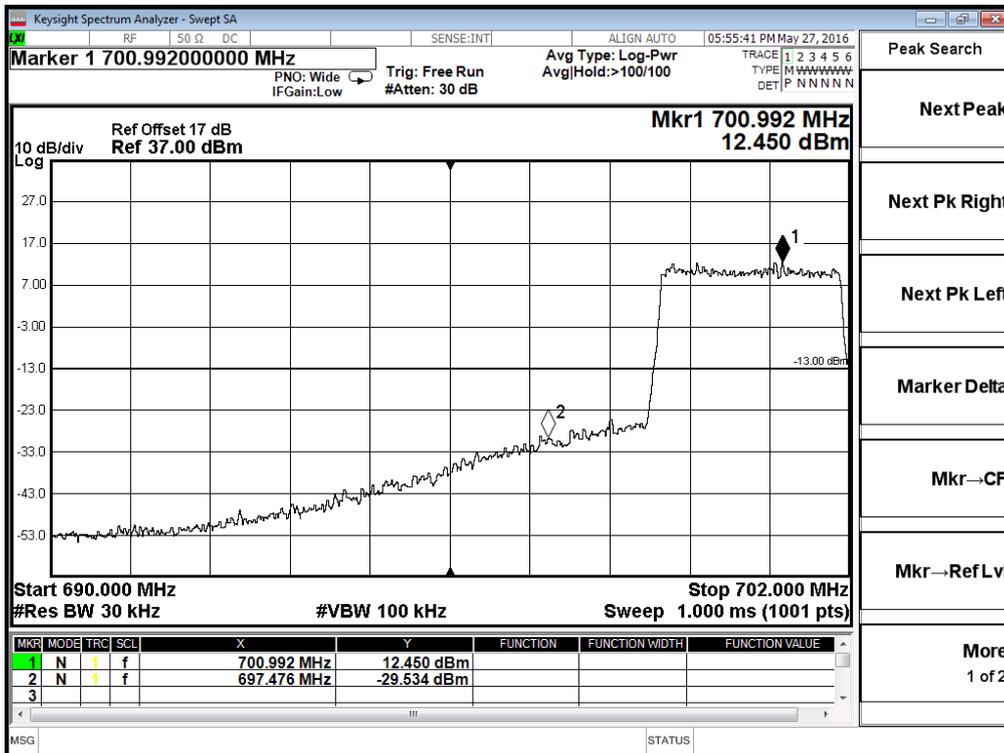
Higher Band Edge Plot for QPSK-RB Size 15, RB Offset 0



Band	LTE Band 12	Modulation	16QAM
Bandwidth	3MHz		



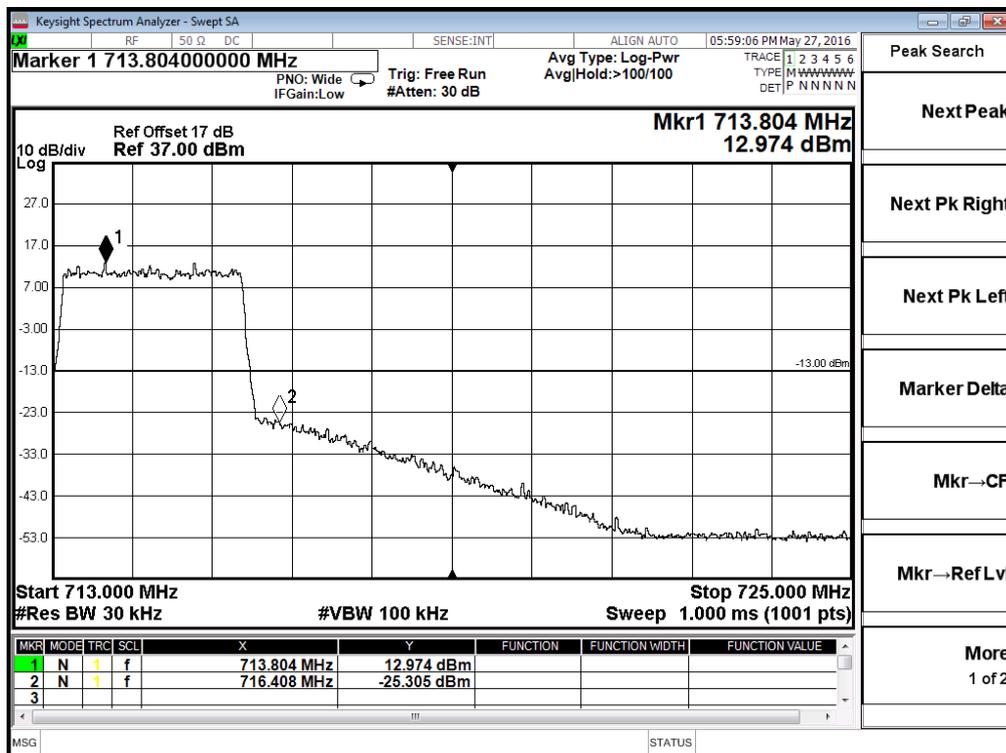
Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Lower Band Edge Plot for 16QAM -RB Size 15, RB Offset 0



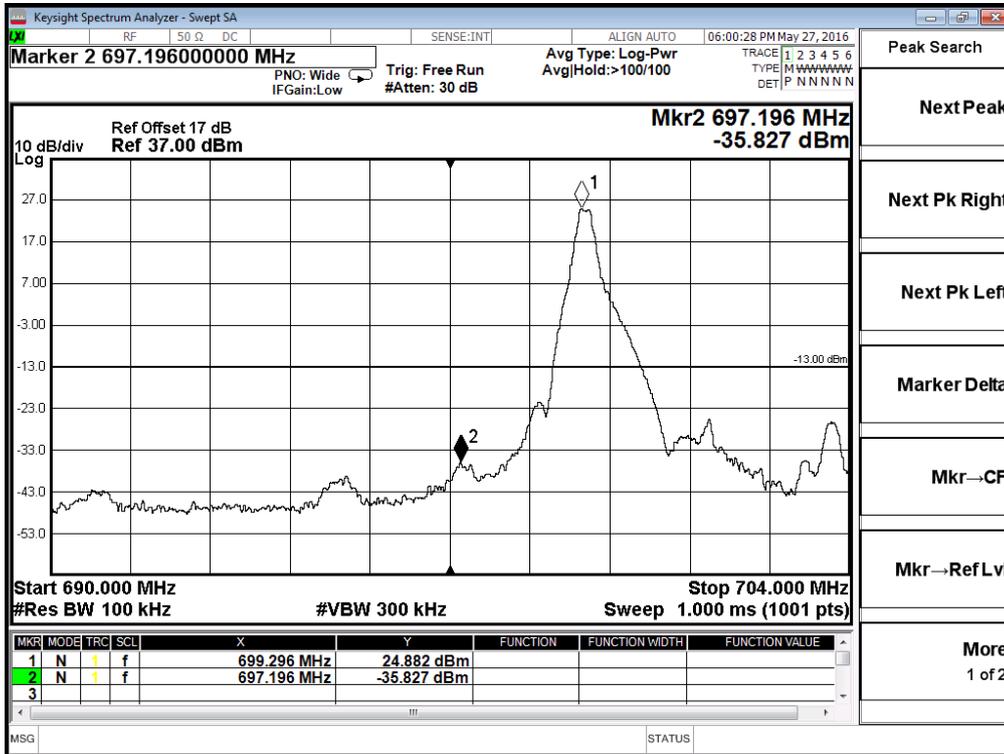
Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 14



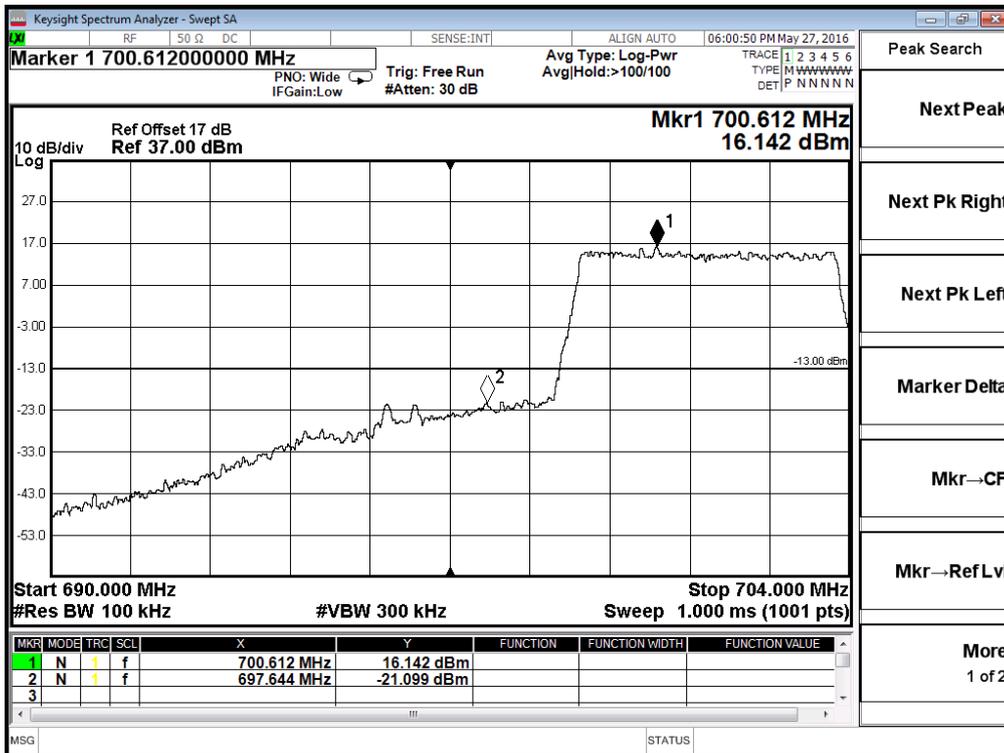
Higher Band Edge Plot for 16QAM -RB Size 15, RB Offset 0



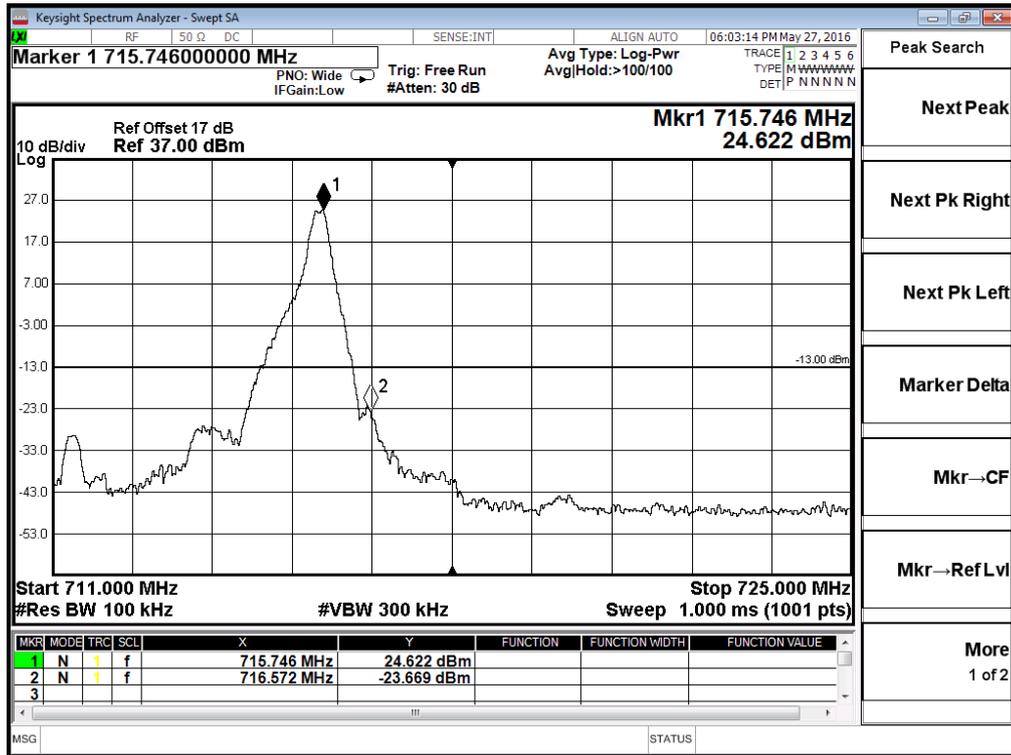
Band	LTE Band 12	Modulation	QPSK
Bandwidth	5MHz		



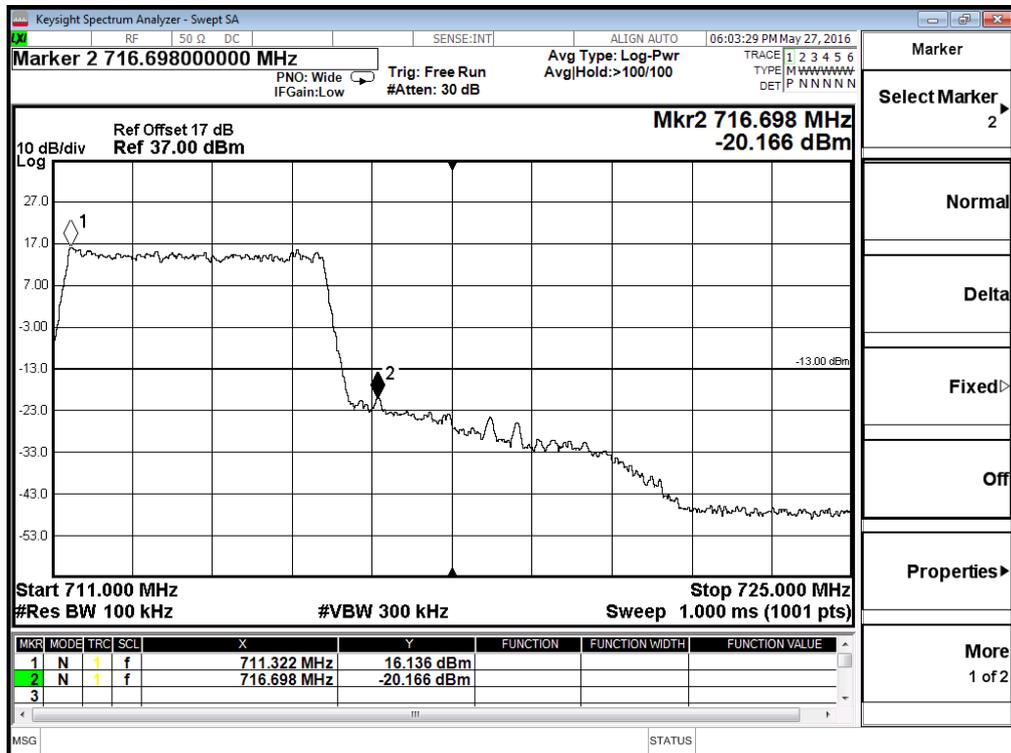
Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Lower Band Edge Plot for QPSK-RB Size 25, RB Offset 0



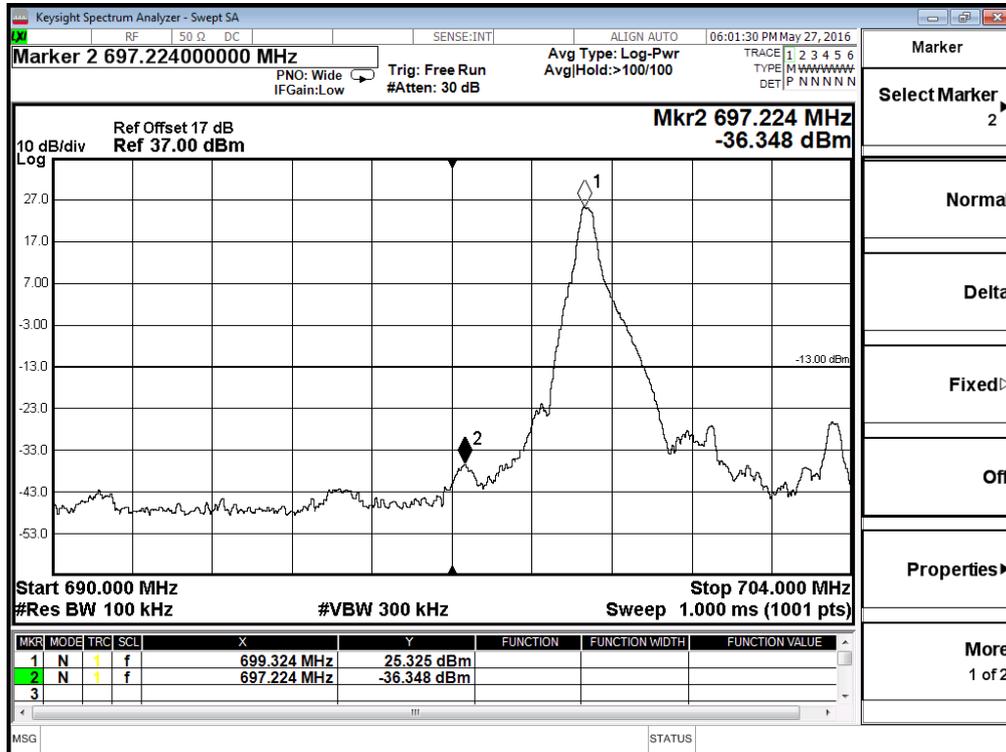
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 24



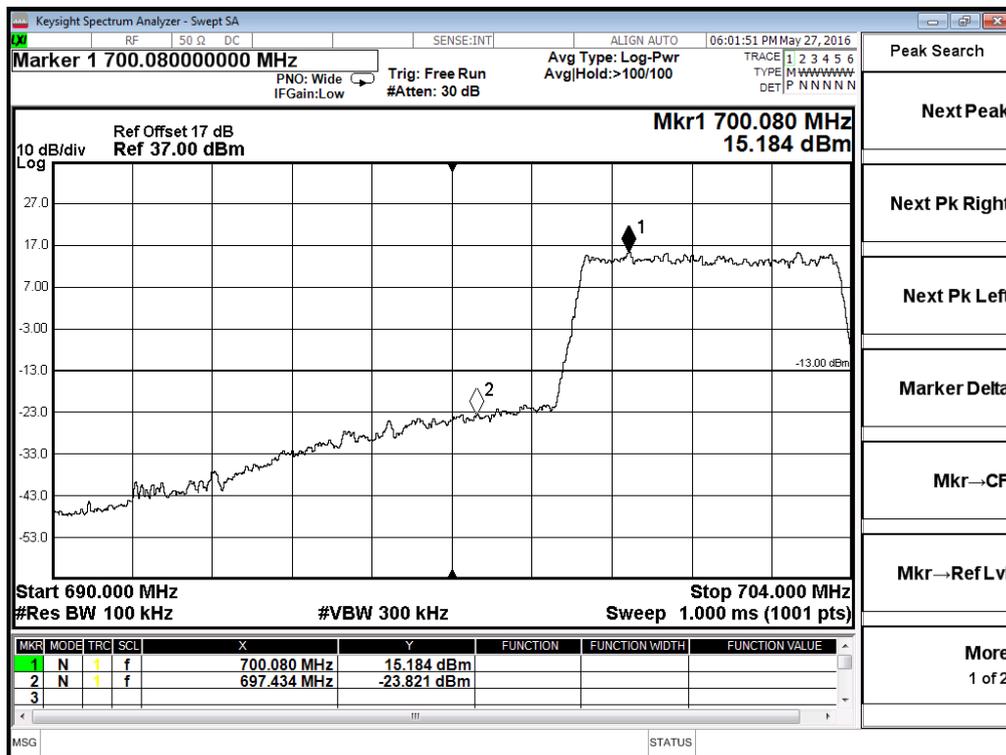
Higher Band Edge Plot for QPSK-RB Size 25, RB Offset 0



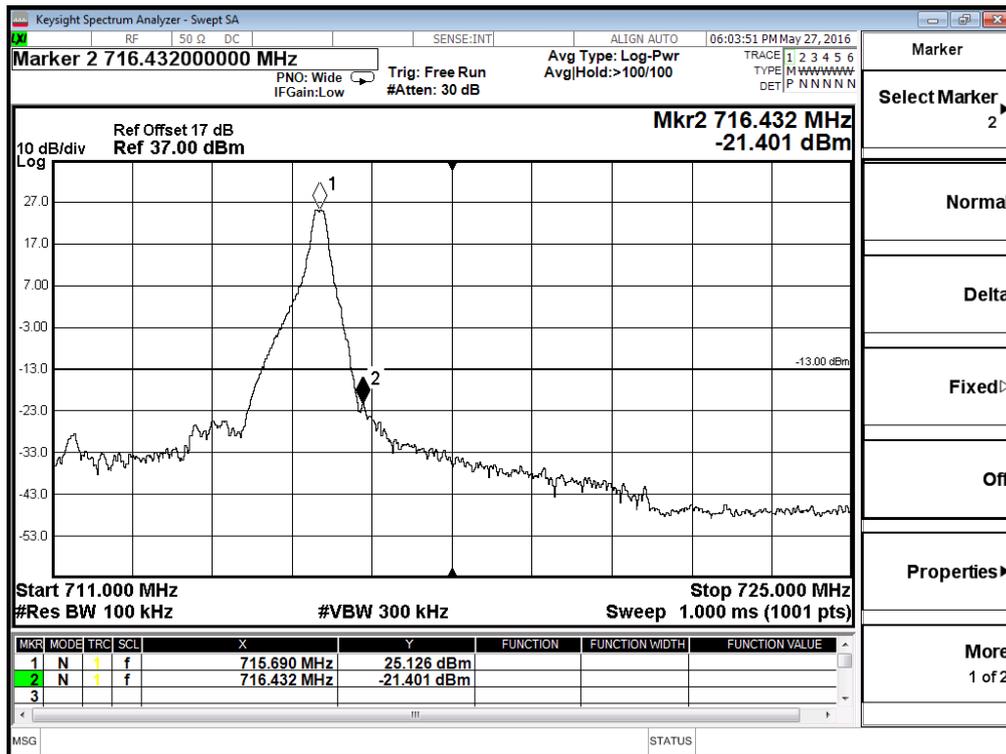
Band	LTE Band 12	Modulation	16QAM
Bandwidth	5MHz		



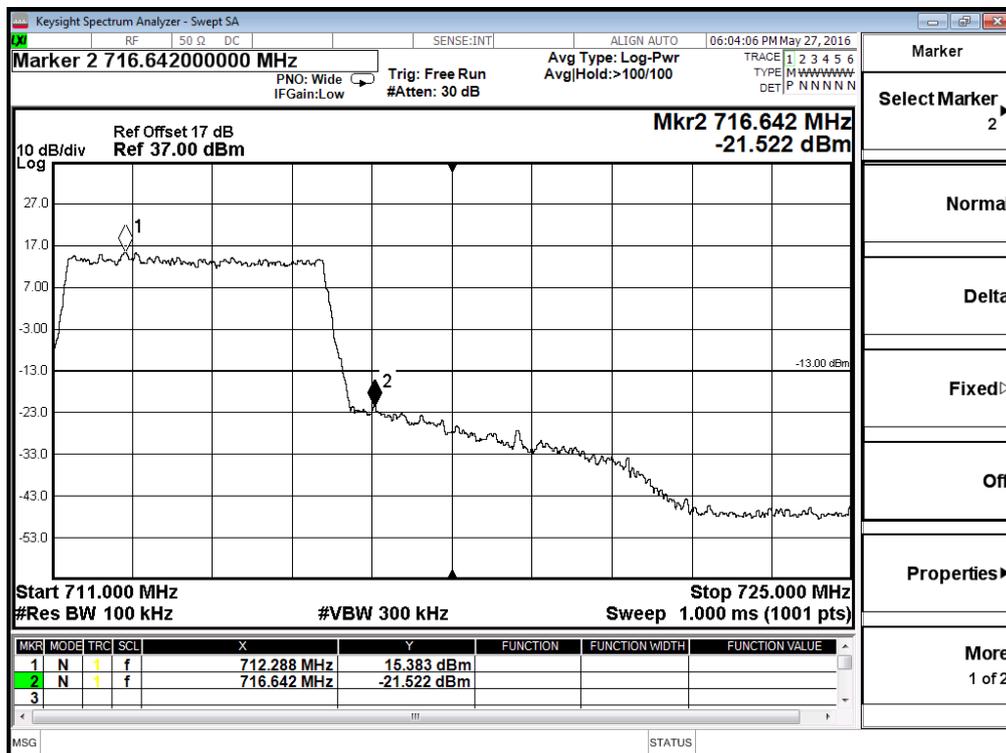
Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Lower Band Edge Plot for 16QAM -RB Size 25, RB Offset 0



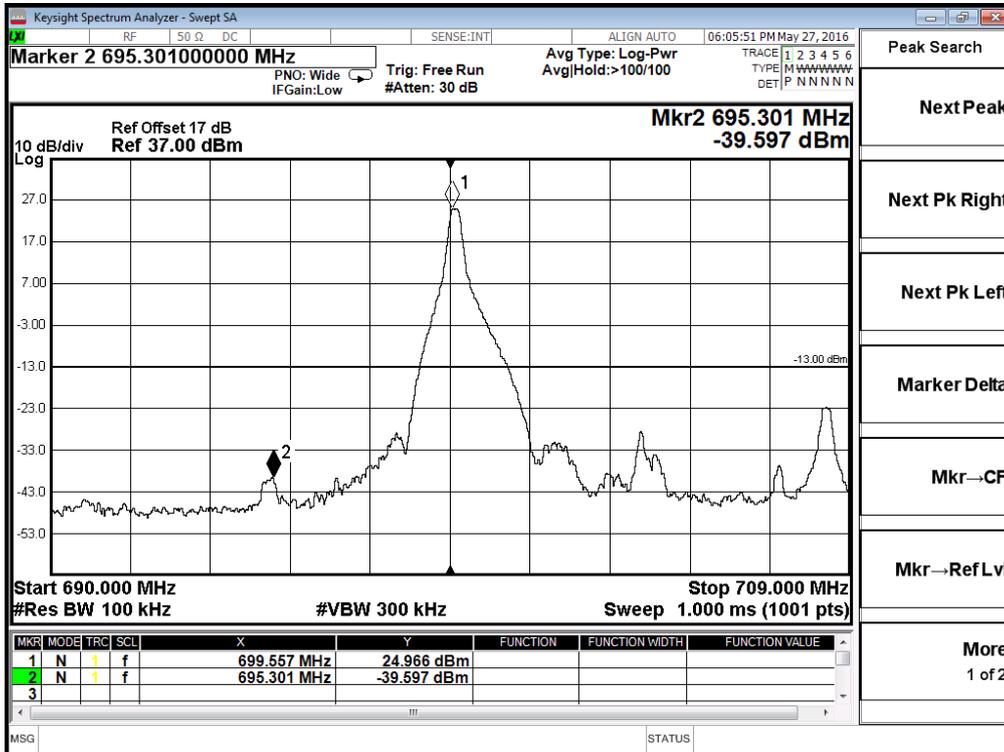
Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 24



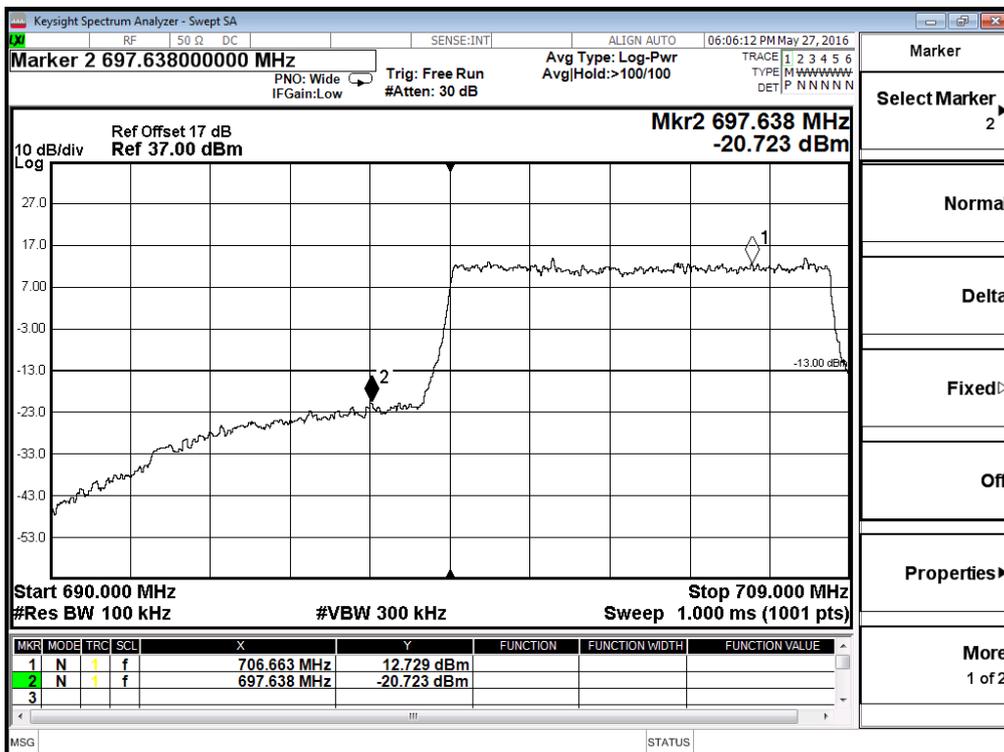
Higher Band Edge Plot for 16QAM -RB Size 25, RB Offset 0



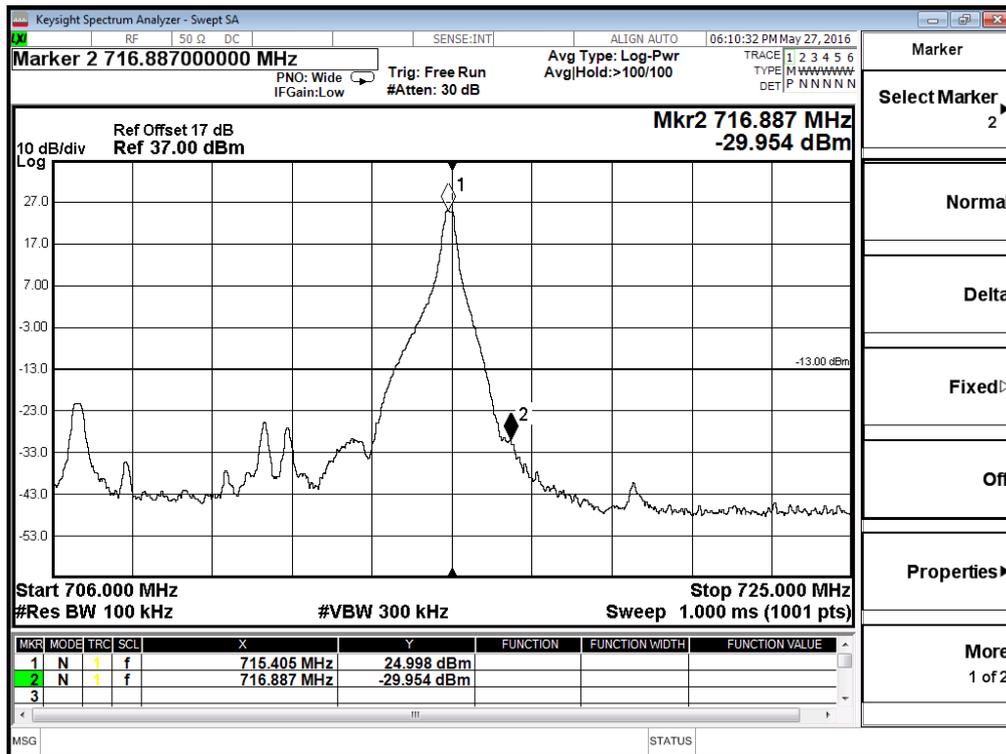
Band	LTE Band 12	Modulation	QPSK
Bandwidth	10MHz		



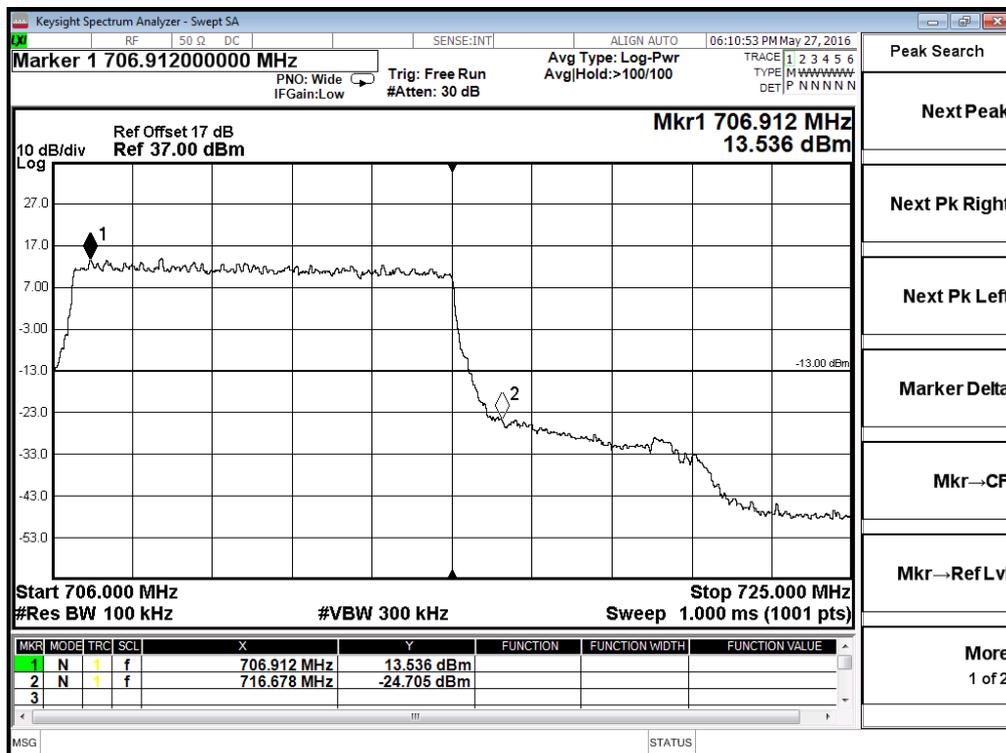
Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Lower Band Edge Plot for QPSK-RB Size 50, RB Offset 0



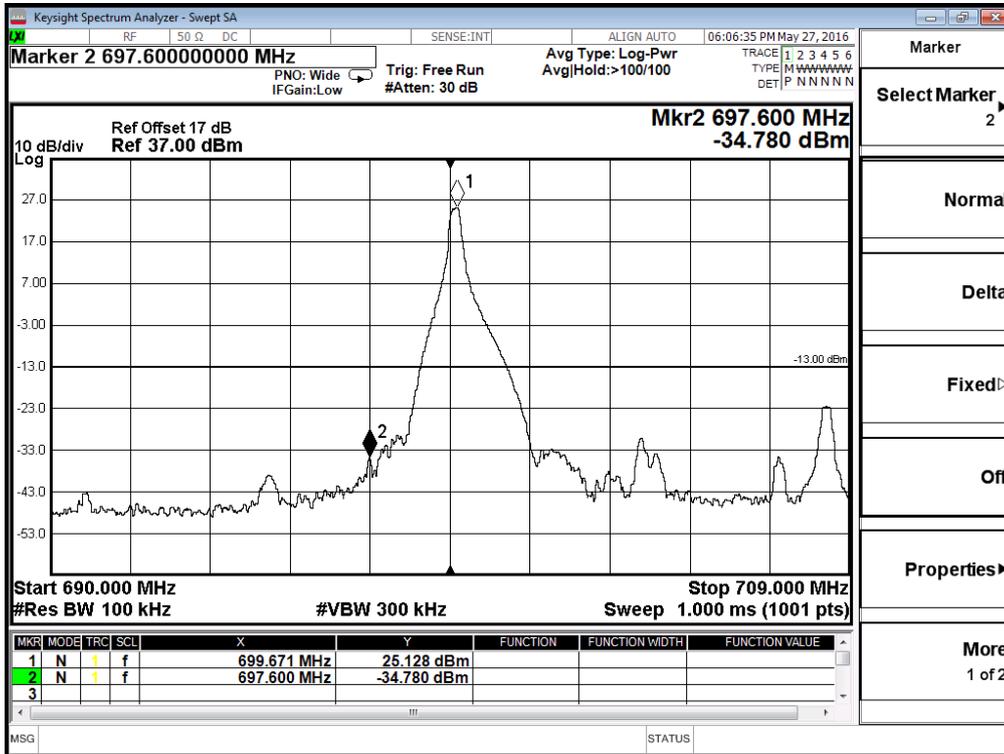
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 49



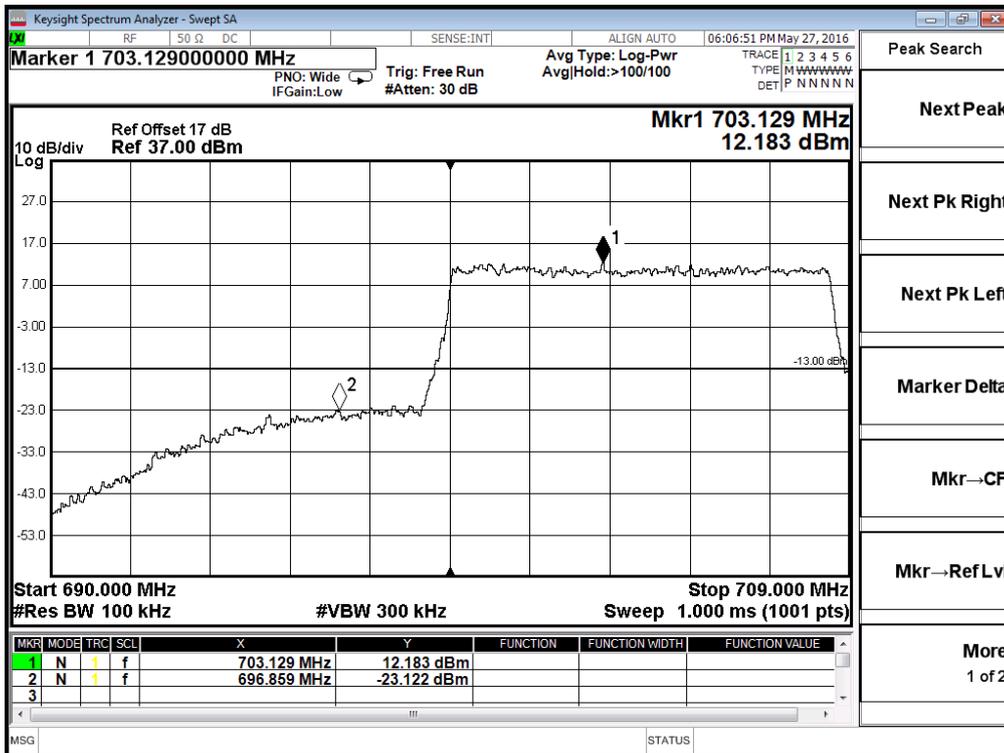
Higher Band Edge Plot for QPSK-RB Size 50, RB Offset 0



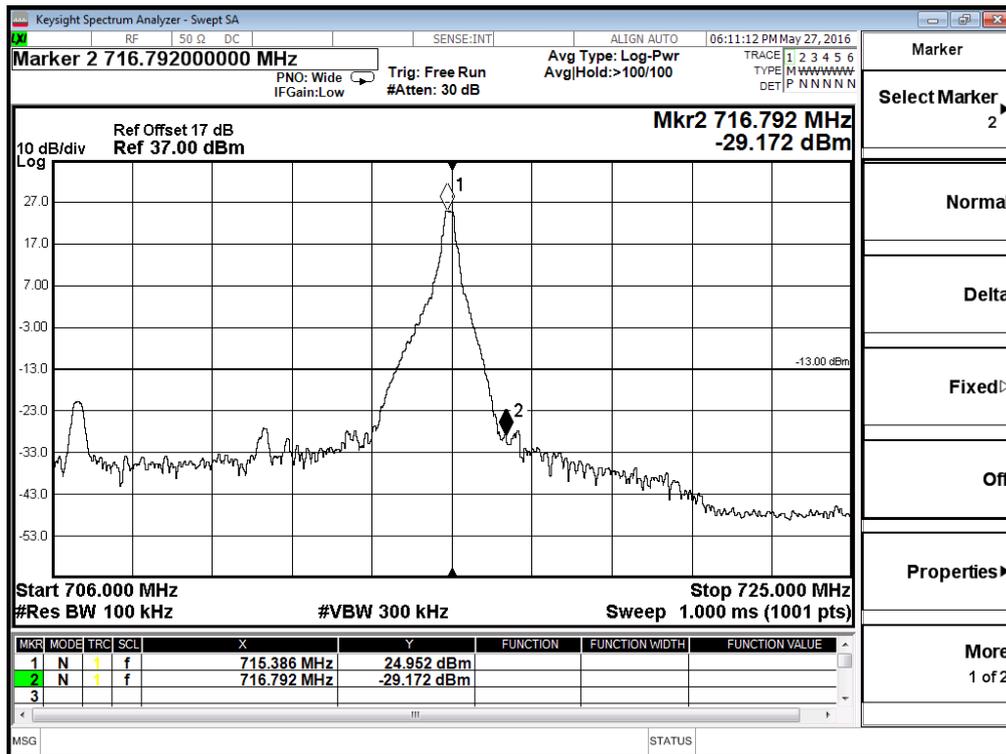
Band	LTE Band 12	Modulation	16QAM
Bandwidth	10MHz		



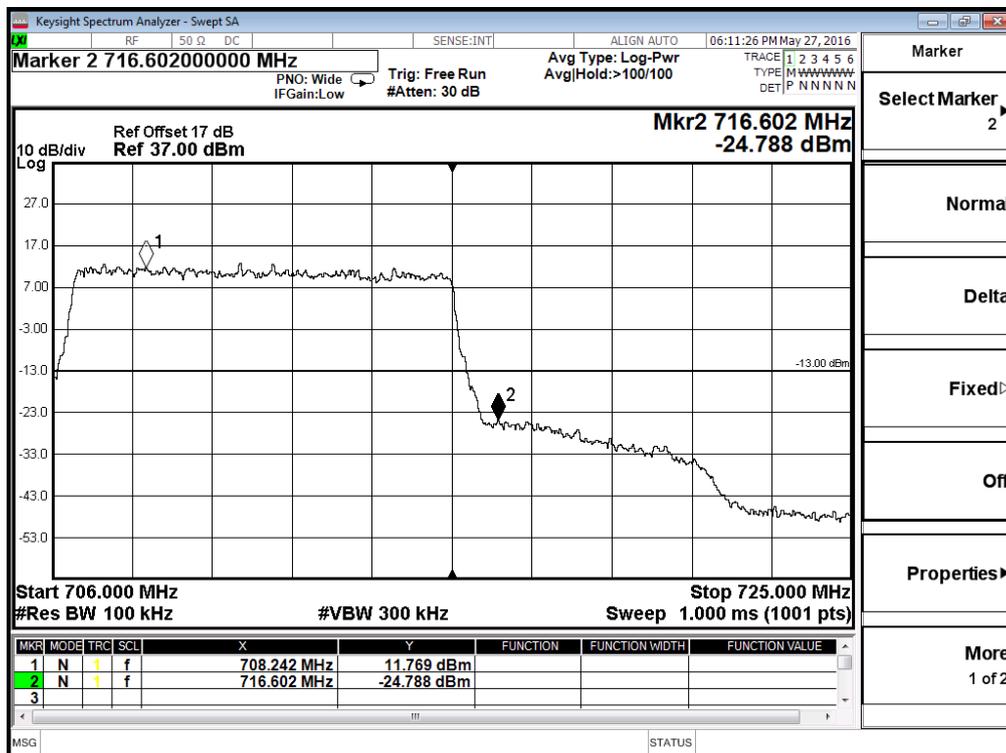
Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Lower Band Edge Plot for 16QAM -RB Size 50, RB Offset 0



Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 49



Higher Band Edge Plot for 16QAM -RB Size 50, RB Offset 0

2.7 Transmitter Radiated Power (EIRP/ERP)

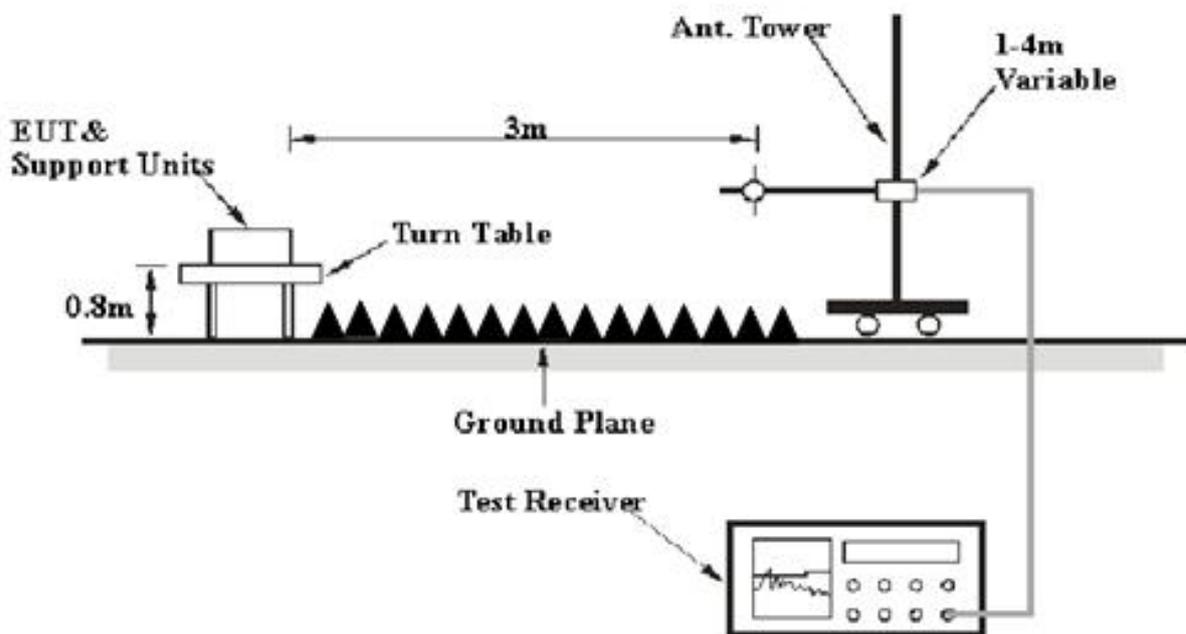
2.7.1 Requirement

Equivalent isotropic radiated power output measurements by substitution method according to ANSI /TIA / EIA-603-C-2004, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems v02r02. Mobile and portable (hand-held) stations operating are limited to average EIRP of 2 watts with LTE band 2 / 7 and 1 watt with LTE band 4.

2.7.2 Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.7.3 Test Setup



2.7.4 Test Procedures

1. The EUT was placed on a turntable with 1.5 meter height in a fully anechoic chamber.
2. The EUT was set at 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and a spectrum analyzer which used a channel power option across EUT's signal



bandwidth per section 4.0 of KDB 971168 D01v02r02.

4. The table was rotated 360 degrees to determine the position of the highest radiated power.
5. The height of the receiving antenna is adjusted to look for the maximum ERP/EIRP.
6. Taking the record of maximum ERP/EIRP.
7. A dipole antenna was substituted in place of the EUT and was driven by a signal generator.
8. The conducted power at the terminal of the dipole antenna is measured.
9. Repeat step 3 to step 5 to get the maximum ERP/EIRP of the substitution antenna.
10. $ERP/EIRP = P_s + E_t - E_s + G_s = P_s + R_t - R_s + G_s$

P_s (dBm): Input power to substitution antenna.

G_s (dBi or dBd): Substitution antenna Gain.

$E_t = R_t + AF$

$E_s = R_s + AF$

AF (dB/m): Receive antenna factor

R_t : The highest received signal in spectrum analyzer for EUT.

R_s : The highest received signal in spectrum analyzer for substitution antenna.

**2.7.5 Test Result of ERP/EIRP**

1. LTE Band 2 Test Verdict:

LTE Band	BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	EIRP (dBm)	H/V	Verdict
			RB Size	RB Offset				
2	1.4	QPSK	1	2	1850.7	22.20	H	PASS
2	1.4	QPSK	1	5	1880	22.22	H	PASS
2	1.4	QPSK	3	2	1909.3	22.19	H	PASS
2	1.4	QPSK	1	2	1850.7	21.92	V	PASS
2	1.4	QPSK	1	5	1880	21.89	V	PASS
2	1.4	QPSK	3	2	1909.3	21.87	V	PASS
2	1.4	16QAM	1	0	1850.7	21.48	H	PASS
2	1.4	16QAM	1	2	1880	21.50	H	PASS
2	1.4	16QAM	3	2	1909.3	21.51	H	PASS
2	1.4	16QAM	1	0	1850.7	20.82	V	PASS
2	1.4	16QAM	1	2	1880	20.87	V	PASS
2	1.4	16QAM	3	2	1909.3	20.88	V	PASS
2	3	QPSK	1	7	1851.5	22.19	H	PASS
2	3	QPSK	1	14	1880	22.24	H	PASS
2	3	QPSK	1	0	1908.5	22.22	H	PASS
2	3	QPSK	1	7	1851.5	21.82	V	PASS
2	3	QPSK	1	14	1880	21.84	V	PASS
2	3	QPSK	1	0	1908.5	21.85	V	PASS
2	3	16QAM	1	14	1851.5	21.53	H	PASS
2	3	16QAM	1	0	1880	21.48	H	PASS
2	3	16QAM	1	0	1908.5	21.47	H	PASS
2	3	16QAM	1	14	1851.5	20.91	V	PASS
2	3	16QAM	1	0	1880	20.85	V	PASS
2	3	16QAM	1	0	1908.5	20.83	V	PASS
2	5	QPSK	1	0	1852.5	22.24	H	PASS
2	5	QPSK	1	0	1880	22.25	H	PASS
2	5	QPSK	1	24	1907.5	22.27	H	PASS
2	5	QPSK	1	0	1852.5	21.82	V	PASS
2	5	QPSK	1	0	1880	21.89	V	PASS
2	5	QPSK	1	24	1907.5	21.85	V	PASS
2	5	16QAM	1	12	1852.5	21.52	H	PASS
2	5	16QAM	1	0	1880	21.55	H	PASS
2	5	16QAM	1	12	1907.5	21.56	H	PASS
2	5	16QAM	1	12	1852.5	20.85	V	PASS
2	5	16QAM	1	0	1880	20.84	V	PASS
2	5	16QAM	1	12	1907.5	20.89	V	PASS



LTE Band	BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	EIRP (dBm)	H/V	Verdict
			RB Size	RB Offset				
2	10	QPSK	1	0	1855	22.31	H	PASS
2	10	QPSK	1	0	1880	22.27	H	PASS
2	10	QPSK	1	49	1905	22.32	H	PASS
2	10	QPSK	1	0	1855	21.85	V	PASS
2	10	QPSK	1	0	1880	21.84	V	PASS
2	10	QPSK	1	49	1905	21.88	V	PASS
2	10	16QAM	1	0	1855	21.58	H	PASS
2	10	16QAM	1	0	1880	21.56	H	PASS
2	10	16QAM	1	24	1905	21.59	H	PASS
2	10	16QAM	1	0	1855	20.84	V	PASS
2	10	16QAM	1	0	1880	20.90	V	PASS
2	10	16QAM	1	24	1905	20.85	V	PASS
2	15	QPSK	1	0	1857.5	22.28	H	PASS
2	15	QPSK	1	0	1880	22.35	H	PASS
2	15	QPSK	1	74	1902.5	22.33	H	PASS
2	15	QPSK	1	0	1857.5	21.82	V	PASS
2	15	QPSK	1	0	1880	21.91	V	PASS
2	15	QPSK	1	74	1902.5	21.87	V	PASS
2	15	16QAM	1	0	1857.5	21.59	H	PASS
2	15	16QAM	1	0	1880	21.60	H	PASS
2	15	16QAM	1	74	1902.5	21.55	H	PASS
2	15	16QAM	1	0	1857.5	20.89	V	PASS
2	15	16QAM	1	0	1880	20.92	V	PASS
2	15	16QAM	1	74	1902.5	20.87	V	PASS
2	20	QPSK	1	0	1860	22.39	H	PASS
2	20	QPSK	1	0	1880	22.35	H	PASS
2	20	QPSK	1	0	1900	22.33	H	PASS
2	20	QPSK	1	0	1860	21.85	V	PASS
2	20	QPSK	1	0	1880	21.89	V	PASS
2	20	QPSK	1	0	1900	21.92	V	PASS
2	20	16QAM	1	0	1860	21.59	H	PASS
2	20	16QAM	1	0	1880	21.60	H	PASS
2	20	16QAM	1	49	1900	21.62	H	PASS
2	20	16QAM	1	0	1860	20.91	V	PASS
2	20	16QAM	1	0	1880	20.96	V	PASS
2	20	16QAM	1	49	1900	20.94	V	PASS



2. LTE Band 4 Test Verdict:

LTE Band	BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	EIRP (dBm)	H/V	Verdict
			RB Size	RB Offset				
4	1.4	QPSK	3	0	1710.7	22.51	H	PASS
4	1.4	QPSK	3	2	1732.5	22.54	H	PASS
4	1.4	QPSK	1	2	1754.3	22.55	H	PASS
4	1.4	QPSK	3	0	1710.7	21.76	V	PASS
4	1.4	QPSK	3	2	1732.5	21.74	V	PASS
4	1.4	QPSK	1	2	1754.3	21.77	V	PASS
4	1.4	16QAM	3	2	1710.7	21.29	H	PASS
4	1.4	16QAM	3	2	1732.5	21.30	H	PASS
4	1.4	16QAM	3	2	1754.3	21.27	H	PASS
4	1.4	16QAM	3	2	1710.7	20.57	V	PASS
4	1.4	16QAM	3	2	1732.5	20.61	V	PASS
4	1.4	16QAM	3	2	1754.3	20.62	V	PASS
4	3	QPSK	1	0	1711.5	22.51	H	PASS
4	3	QPSK	1	0	1732.5	22.57	H	PASS
4	3	QPSK	1	7	1753.5	22.55	H	PASS
4	3	QPSK	1	0	1711.5	21.60	V	PASS
4	3	QPSK	1	0	1732.5	21.64	V	PASS
4	3	QPSK	1	7	1753.5	21.71	V	PASS
4	3	16QAM	1	14	1711.5	21.32	H	PASS
4	3	16QAM	1	14	1732.5	21.29	H	PASS
4	3	16QAM	1	14	1753.5	21.34	H	PASS
4	3	16QAM	1	14	1711.5	20.57	V	PASS
4	3	16QAM	1	14	1732.5	20.52	V	PASS
4	3	16QAM	1	14	1753.5	20.60	V	PASS
4	5	QPSK	1	12	1712.5	22.60	H	PASS
4	5	QPSK	1	24	1732.5	22.61	H	PASS
4	5	QPSK	1	24	1752.5	22.59	H	PASS
4	5	QPSK	1	12	1712.5	21.76	V	PASS
4	5	QPSK	1	24	1732.5	21.70	V	PASS
4	5	QPSK	1	24	1752.5	21.68	V	PASS
4	5	16QAM	1	24	1712.5	21.35	H	PASS
4	5	16QAM	1	0	1732.5	21.31	H	PASS
4	5	16QAM	1	0	1752.5	21.36	H	PASS
4	5	16QAM	1	24	1712.5	20.72	V	PASS
4	5	16QAM	1	0	1732.5	20.65	V	PASS
4	5	16QAM	1	0	1752.5	20.70	V	PASS



LTE Band	BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	EIRP (dBm)	H/V	Verdict
			RB Size	RB Offset				
4	10	QPSK	1	24	1715	22.64	H	PASS
4	10	QPSK	1	0	1732.5	22.59	H	PASS
4	10	QPSK	1	24	1750	22.61	H	PASS
4	10	QPSK	1	24	1715	21.67	V	PASS
4	10	QPSK	1	0	1732.5	21.62	V	PASS
4	10	QPSK	1	24	1750	21.63	V	PASS
4	10	16QAM	1	24	1715	21.31	H	PASS
4	10	16QAM	1	0	1732.5	21.38	H	PASS
4	10	16QAM	1	24	1750	21.36	H	PASS
4	10	16QAM	1	24	1715	20.62	V	PASS
4	10	16QAM	1	0	1732.5	20.71	V	PASS
4	10	16QAM	1	24	1750	20.63	V	PASS
4	15	QPSK	1	74	1717.5	22.64	H	PASS
4	15	QPSK	1	74	1732.5	22.65	H	PASS
4	15	QPSK	1	0	1747.5	22.63	H	PASS
4	15	QPSK	1	74	1717.5	21.63	V	PASS
4	15	QPSK	1	74	1732.5	21.65	V	PASS
4	15	QPSK	1	0	1747.5	21.69	V	PASS
4	15	16QAM	1	74	1717.5	21.34	H	PASS
4	15	16QAM	1	0	1732.5	21.30	H	PASS
4	15	16QAM	1	0	1747.5	21.37	H	PASS
4	15	16QAM	1	74	1717.5	20.66	V	PASS
4	15	16QAM	1	0	1732.5	20.71	V	PASS
4	15	16QAM	1	0	1747.5	20.69	V	PASS
4	20	QPSK	1	0	1720	22.64	H	PASS
4	20	QPSK	1	0	1732.5	22.68	H	PASS
4	20	QPSK	1	0	1745	22.65	H	PASS
4	20	QPSK	1	0	1720	21.69	V	PASS
4	20	QPSK	1	0	1732.5	21.74	V	PASS
4	20	QPSK	1	0	1745	21.66	V	PASS
4	20	16QAM	1	0	1720	21.33	H	PASS
4	20	16QAM	1	0	1732.5	21.36	H	PASS
4	20	16QAM	1	0	1745	21.39	H	PASS
4	20	16QAM	1	0	1720	20.73	V	PASS
4	20	16QAM	1	0	1732.5	20.76	V	PASS
4	20	16QAM	1	0	1745	20.74	V	PASS



3. LTE Band 7 Test Verdict:

LTE Band	BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	EIRP (dBm)	H/V	Verdict
			RB Size	RB Offset				
7	5	QPSK	1	12	2502.5	22.06	H	PASS
7	5	QPSK	1	0	2535	22.00	H	PASS
7	5	QPSK	1	24	2567.5	22.04	H	PASS
7	5	QPSK	1	12	2502.5	21.46	V	PASS
7	5	QPSK	1	0	2535	21.40	V	PASS
7	5	QPSK	1	24	2567.5	21.48	V	PASS
7	5	16QAM	1	24	2502.5	20.85	H	PASS
7	5	16QAM	1	24	2535	20.81	H	PASS
7	5	16QAM	1	0	2567.5	20.89	H	PASS
7	5	16QAM	1	24	2502.5	20.12	V	PASS
7	5	16QAM	1	24	2535	20.15	V	PASS
7	5	16QAM	1	0	2567.5	20.09	V	PASS
7	10	QPSK	1	24	2505	22.08	H	PASS
7	10	QPSK	1	49	2535	22.05	H	PASS
7	10	QPSK	1	24	2565	22.01	H	PASS
7	10	QPSK	1	24	2505	21.43	V	PASS
7	10	QPSK	1	49	2535	21.48	V	PASS
7	10	QPSK	1	24	2565	21.45	V	PASS
7	10	16QAM	1	24	2505	20.80	H	PASS
7	10	16QAM	1	49	2535	20.85	H	PASS
7	10	16QAM	1	24	2565	20.86	H	PASS
7	10	16QAM	1	24	2505	20.12	V	PASS
7	10	16QAM	1	49	2535	20.05	V	PASS
7	10	16QAM	1	24	2565	20.13	V	PASS
7	15	QPSK	1	37	2507.5	22.12	H	PASS
7	15	QPSK	1	74	2535	22.03	H	PASS
7	15	QPSK	1	0	2562.5	22.10	H	PASS
7	15	QPSK	1	37	2507.5	21.45	V	PASS
7	15	QPSK	1	74	2535	21.40	V	PASS
7	15	QPSK	1	0	2562.5	21.49	V	PASS
7	15	16QAM	1	37	2507.5	20.84	H	PASS
7	15	16QAM	1	18	2535	20.88	H	PASS
7	15	16QAM	1	0	2562.5	20.90	H	PASS
7	15	16QAM	1	37	2507.5	20.16	V	PASS
7	15	16QAM	1	18	2535	20.11	V	PASS
7	15	16QAM	1	0	2562.5	20.09	V	PASS



LTE Band	BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	EIRP (dBm)	H/V	Verdict
7	20	QPSK	1	0	2510	22.08	H	PASS
7	20	QPSK	1	0	2535	22.15	H	PASS
7	20	QPSK	1	0	2560	22.01	H	PASS
7	20	QPSK	1	0	2510	21.49	V	PASS
7	20	QPSK	1	0	2535	21.54	V	PASS
7	20	QPSK	1	0	2560	21.55	V	PASS
7	20	16QAM	1	0	2510	20.89	H	PASS
7	20	16QAM	1	0	2535	20.93	H	PASS
7	20	16QAM	1	0	2560	20.88	H	PASS
7	20	16QAM	1	0	2510	20.13	V	PASS
7	20	16QAM	1	0	2535	20.16	V	PASS
7	20	16QAM	1	0	2560	20.15	V	PASS



4. LTE Band 12 Test Verdict:

LTE Band	BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	ERP (dBm)	H/V	Verdict
			RB Size	RB Offset				
12	1.4	QPSK	3	0	699.7	22.28	H	PASS
12	1.4	QPSK	3	2	707.5	22.24	H	PASS
12	1.4	QPSK	1	2	715.3	22.29	H	PASS
12	1.4	QPSK	3	0	699.7	21.66	V	PASS
12	1.4	QPSK	3	2	707.5	21.64	V	PASS
12	1.4	QPSK	1	2	715.3	21.67	V	PASS
12	1.4	16QAM	3	2	699.7	21.09	H	PASS
12	1.4	16QAM	3	2	707.5	21.11	H	PASS
12	1.4	16QAM	3	2	715.3	21.07	H	PASS
12	1.4	16QAM	3	2	699.7	20.57	V	PASS
12	1.4	16QAM	3	2	707.5	20.61	V	PASS
12	1.4	16QAM	3	2	715.3	20.62	V	PASS
12	3	QPSK	1	0	700.5	22.24	H	PASS
12	3	QPSK	1	0	707.5	22.27	H	PASS
12	3	QPSK	1	7	714.5	22.25	H	PASS
12	3	QPSK	1	0	700.5	21.60	V	PASS
12	3	QPSK	1	0	707.5	21.64	V	PASS
12	3	QPSK	1	7	714.5	21.61	V	PASS
12	3	16QAM	1	14	700.5	21.09	H	PASS
12	3	16QAM	1	14	707.5	21.12	H	PASS
12	3	16QAM	1	14	714.5	21.15	H	PASS
12	3	16QAM	1	14	700.5	20.57	V	PASS
12	3	16QAM	1	14	707.5	20.62	V	PASS
12	3	16QAM	1	14	714.5	20.60	V	PASS
12	5	QPSK	1	12	701.5	22.25	H	PASS
12	5	QPSK	1	24	707.5	22.32	H	PASS
12	5	QPSK	1	24	713.5	22.29	H	PASS
12	5	QPSK	1	12	701.5	21.66	V	PASS
12	5	QPSK	1	24	707.5	21.70	V	PASS
12	5	QPSK	1	24	713.5	21.68	V	PASS
12	5	16QAM	1	24	701.5	21.15	H	PASS
12	5	16QAM	1	0	707.5	21.11	H	PASS
12	5	16QAM	1	0	713.5	21.18	H	PASS
12	5	16QAM	1	24	701.5	20.62	V	PASS
12	5	16QAM	1	0	707.5	20.65	V	PASS
12	5	16QAM	1	0	713.5	20.58	V	PASS



LTE Band	BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	ERP (dBm)	H/V	Verdict
			RB Size	RB Offset				
12	10	QPSK	1	24	704	22.27	H	PASS
12	10	QPSK	1	0	707.5	22.35	H	PASS
12	10	QPSK	1	24	711	22.64	H	PASS
12	10	QPSK	1	24	704	21.67	V	PASS
12	10	QPSK	1	0	707.5	21.65	V	PASS
12	10	QPSK	1	24	711	21.63	V	PASS
12	10	16QAM	1	24	704	21.18	H	PASS
12	10	16QAM	1	0	707.5	21.23	H	PASS
12	10	16QAM	1	24	711	21.17	H	PASS
12	10	16QAM	1	24	704	20.68	V	PASS
12	10	16QAM	1	0	707.5	20.65	V	PASS
12	10	16QAM	1	24	711	20.63	V	PASS

2.8 Radiated Out of Band Emissions

2.8.1 Requirement

The radiated spurious emission was measured by substitution method according to ANSI / TIA /EIA-603-C-2004. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

For Band 7

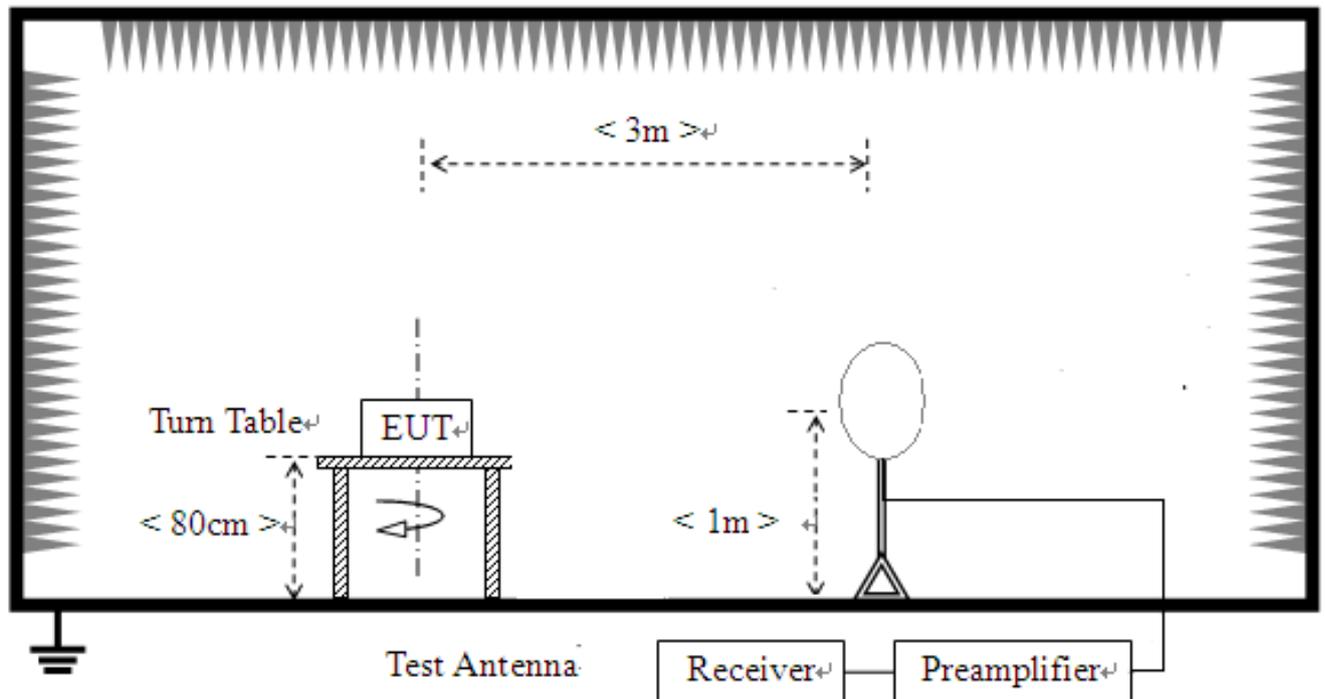
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $55 + 10 \log (P)$ dB.

2.8.2 Measuring Instruments

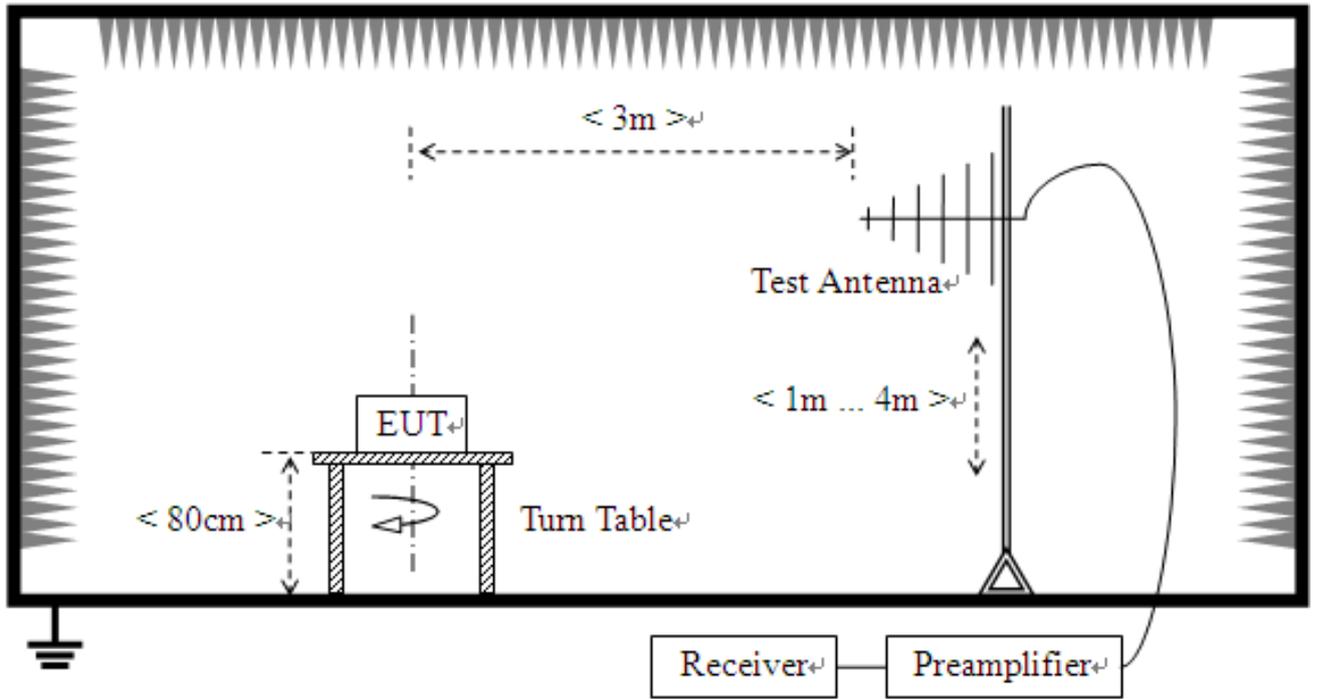
The measuring equipment is listed in the section 3 of this test report.

2.8.3 Test Setup

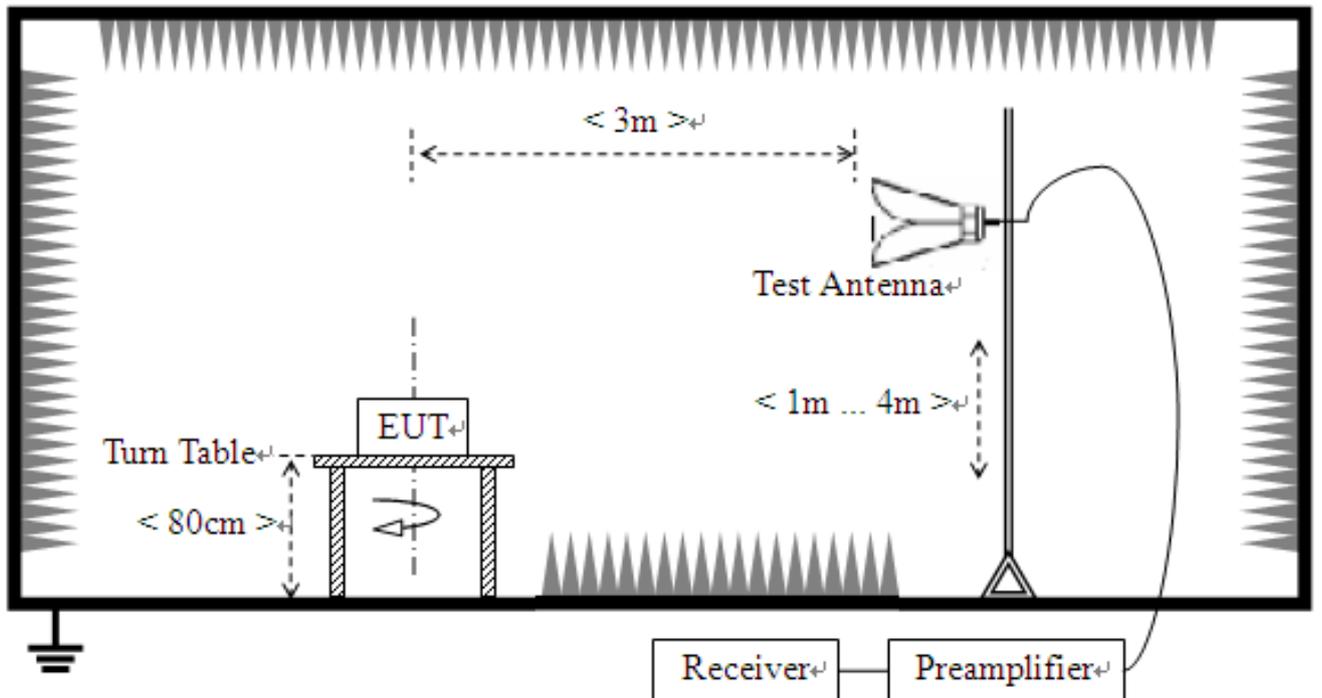
For radiated emissions from 9kHz to 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



2.8.4 Test Procedures

1. The EUT was placed on a rotatable wooden table with 0.8 meter above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Taking the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

$$\begin{aligned} & \text{The limit line is derived from } 43 + 10\log(P)\text{dB below the transmitter power } P(\text{Watts}) \\ & = P(\text{W}) - [43 + 10\log(P)] \text{ (dB)} \\ & = [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)} \\ & = -13\text{dBm}. \end{aligned}$$

<For Band 7>

$$\begin{aligned} & \text{The limit line is derived from } 55 + 10\log(P)\text{dB below the transmitter power } P(\text{Watts}) \\ & = P(\text{W}) - [55 + 10\log(P)] \text{ (dB)} \\ & = [30 + 10\log(P)] \text{ (dBm)} - [55 + 10\log(P)] \text{ (dB)} \\ & = -25\text{dBm}. \end{aligned}$$

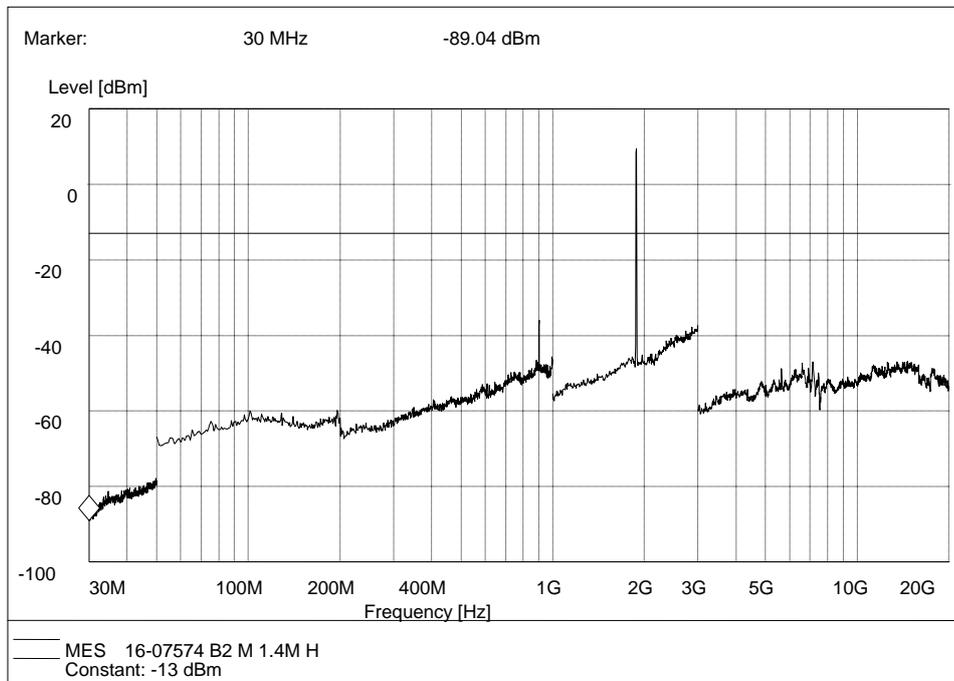
11. All Spurious Emission tests were performed in X, Y, Z axis direction and low, middle, high channel. And only the worst axis test condition was recorded in this test report.
12. The spectrum is measured from 9 KHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. The worst case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.



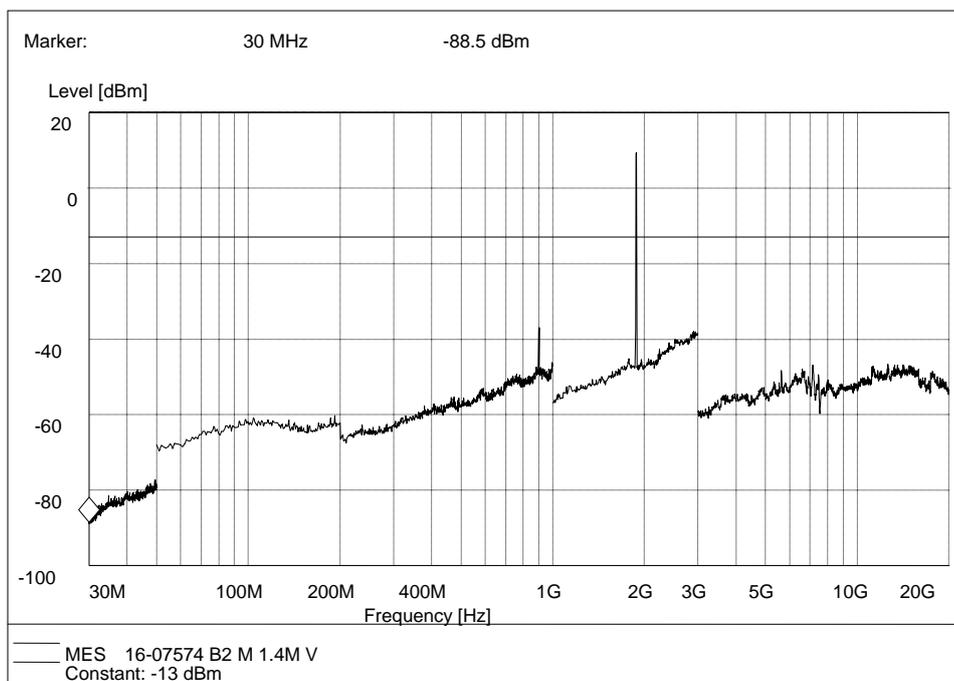
13. The maximum RB configurations of the Radiated Spurious Emissions as RB Size 1,
RB Offset 0

2.8.5 Test Result (Plots) of Radiated Spurious Emission

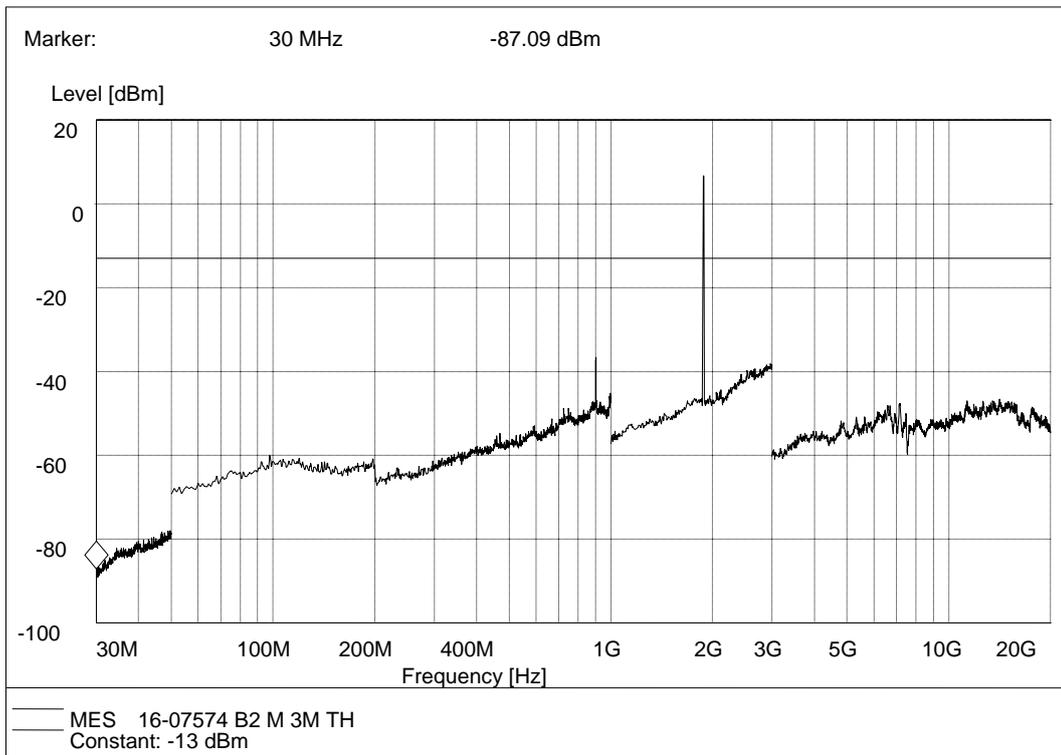
Note: For 9 KHz to 30MHz: the amplitude of spurious emissions is attenuated by more than 20dB below the permissible value, so we not provide the test result here.



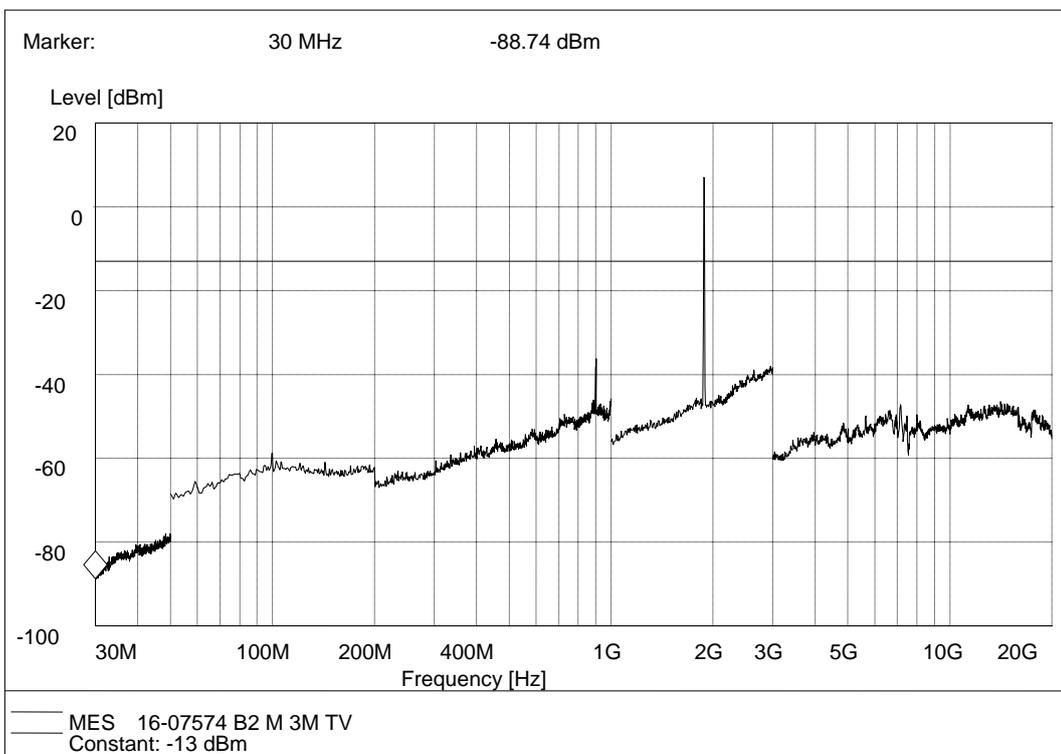
LTE Band 2 QPSK 1.4MHz BW Test Antenna Horizontal



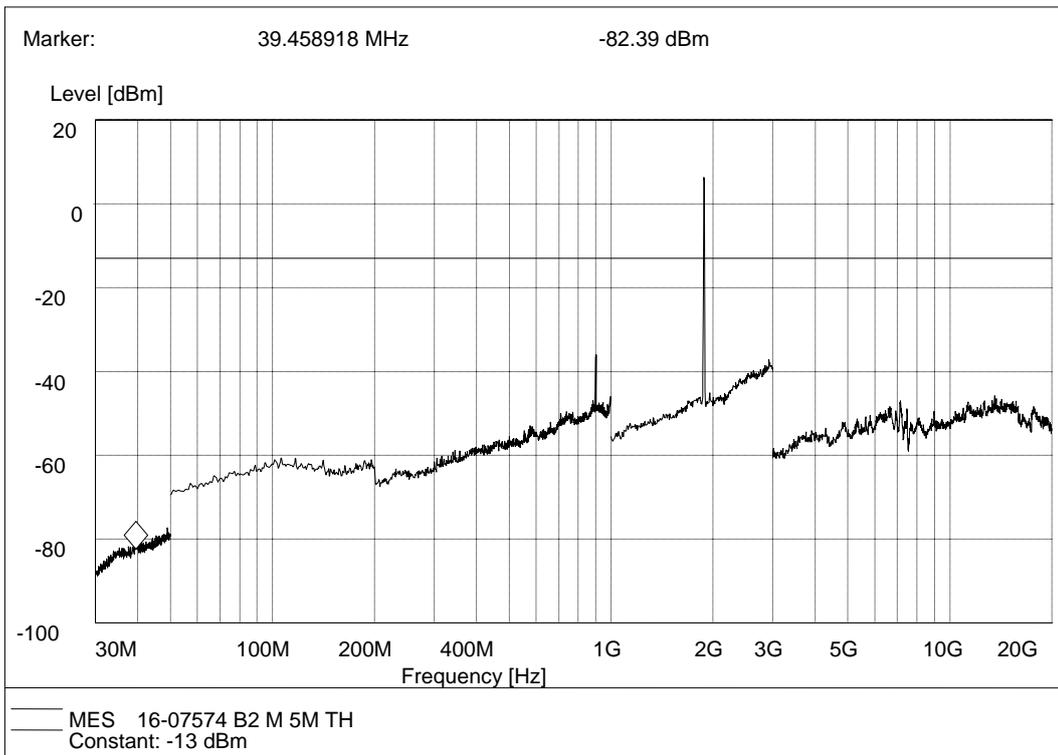
LTE Band 2 QPSK 1.4MHz BW Test Antenna Vertical



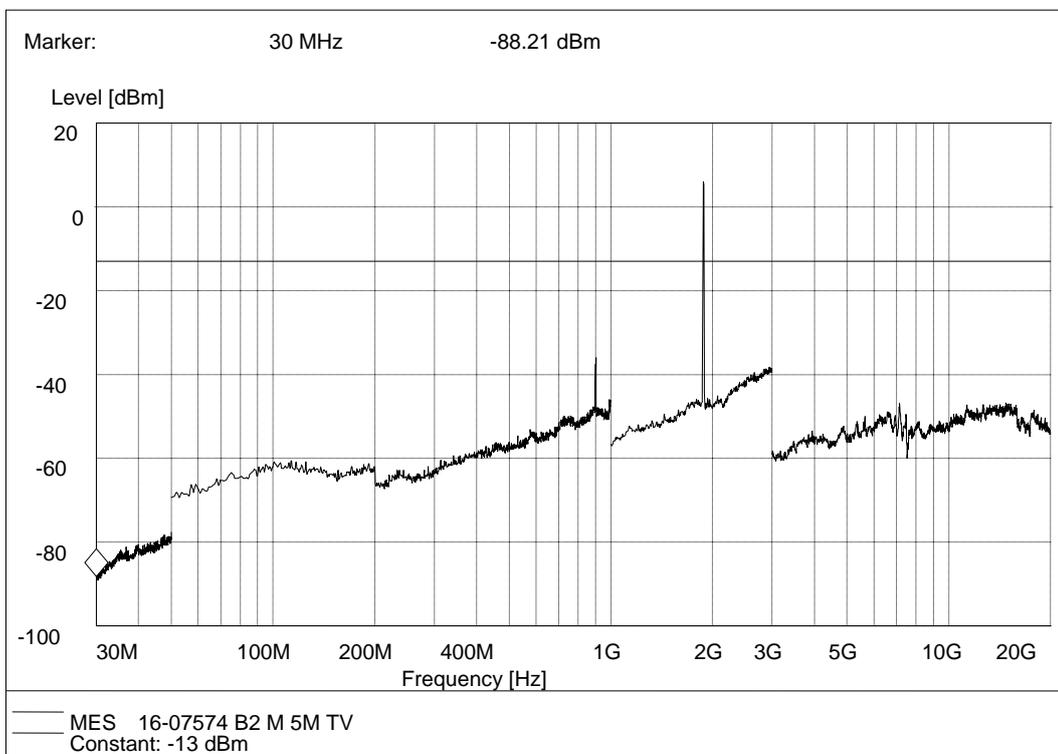
LTE Band 2 QPSK 3MHz BW Test Antenna Horizontal



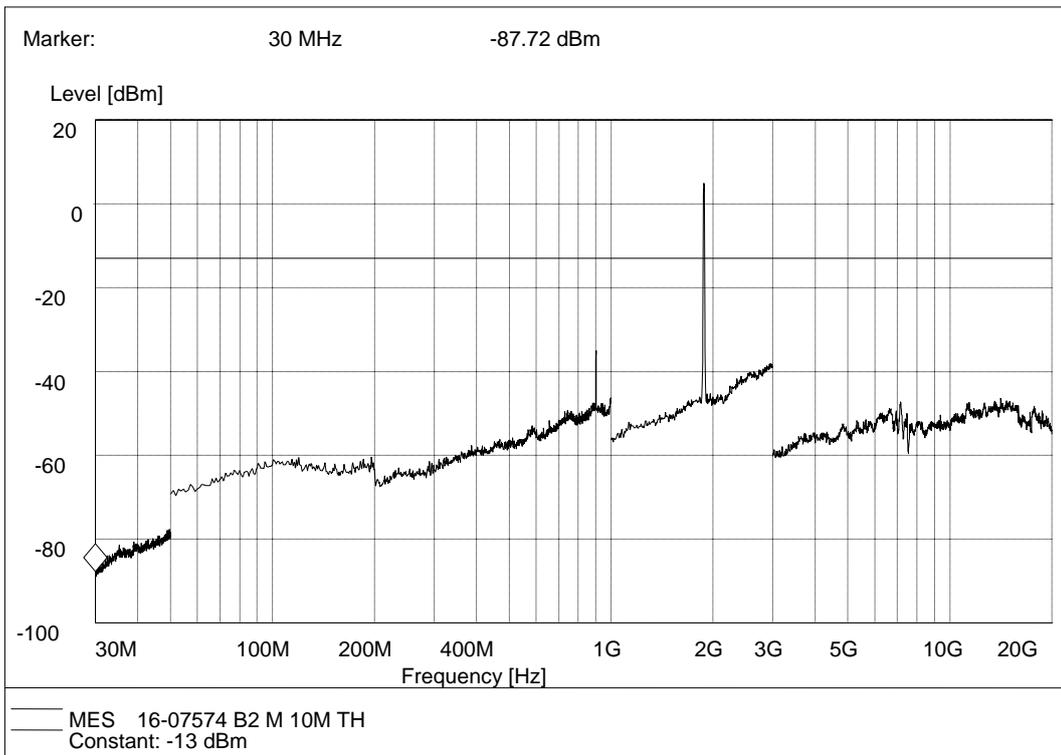
LTE Band 2 QPSK 3MHz BW Test Antenna Vertical



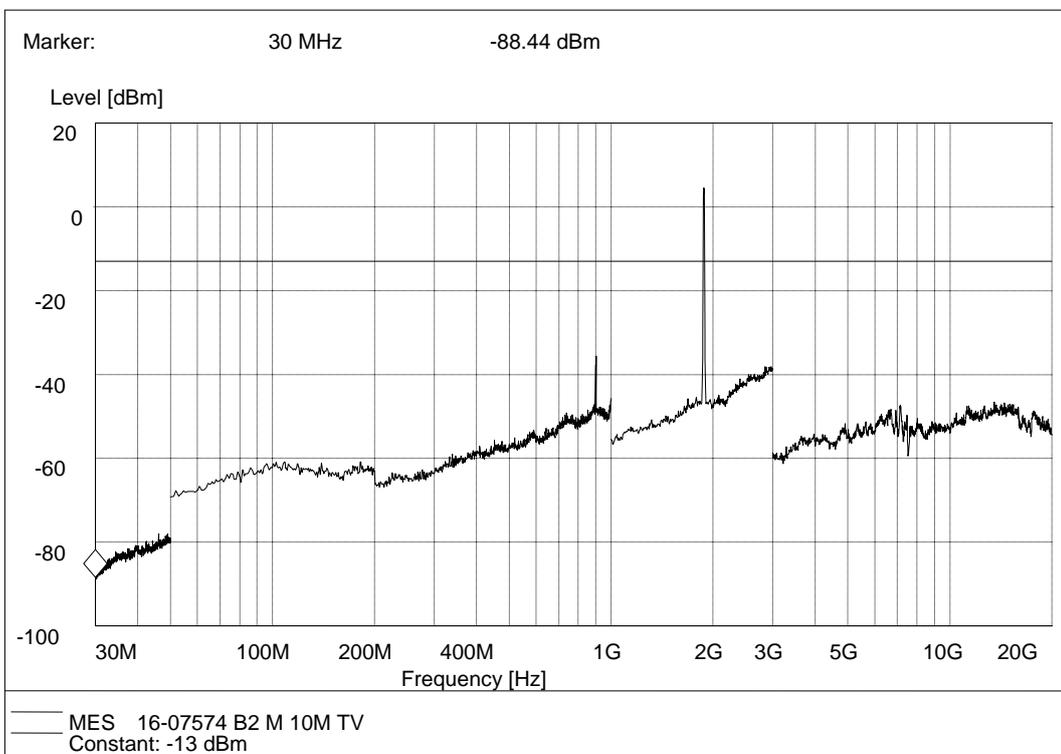
LTE Band 2 QPSK 5MHz BW Test Antenna Horizontal



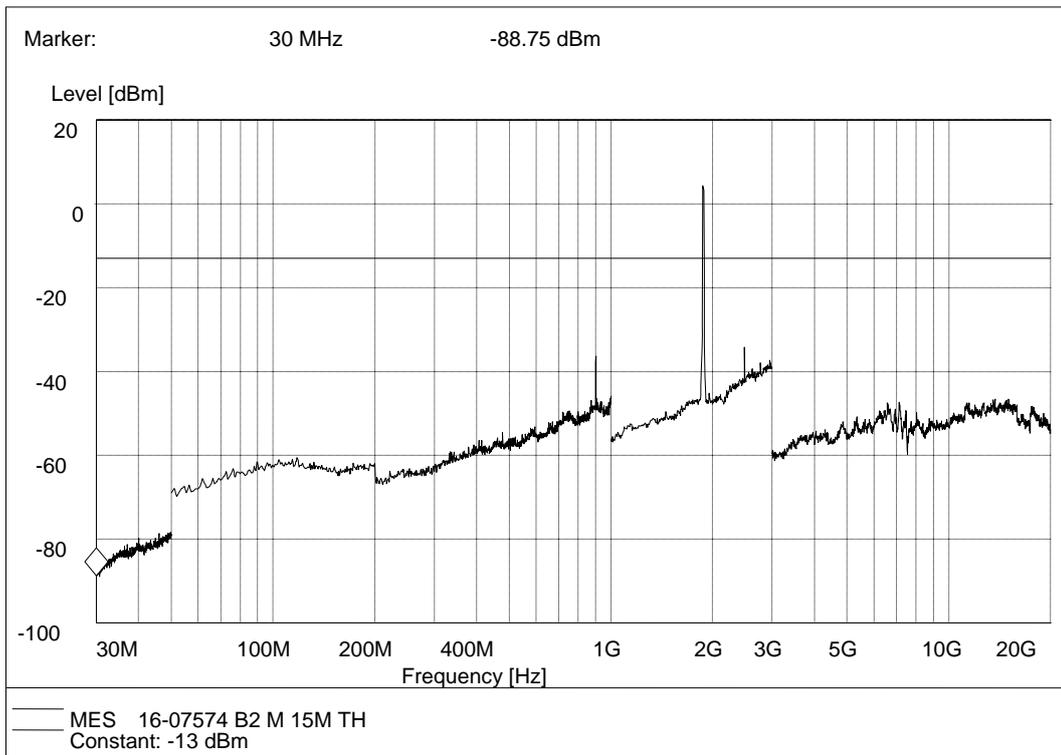
LTE Band 2 QPSK 5MHz BW Test Antenna Vertical



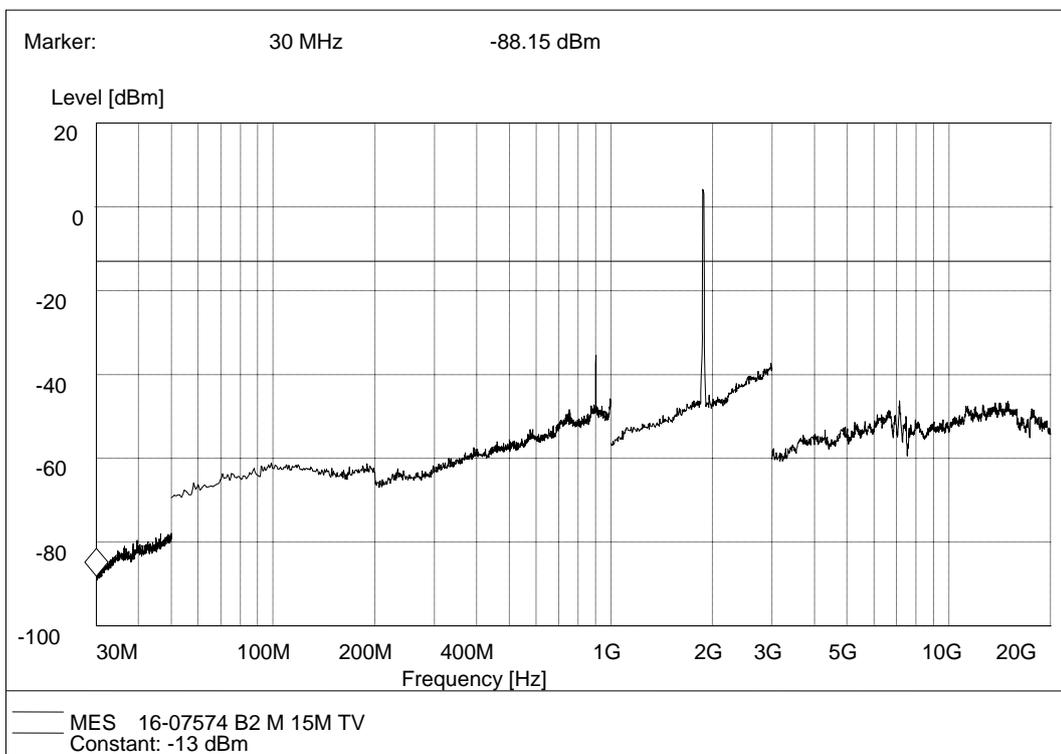
LTE Band 2 QPSK 10MHz BW Test Antenna Horizontal



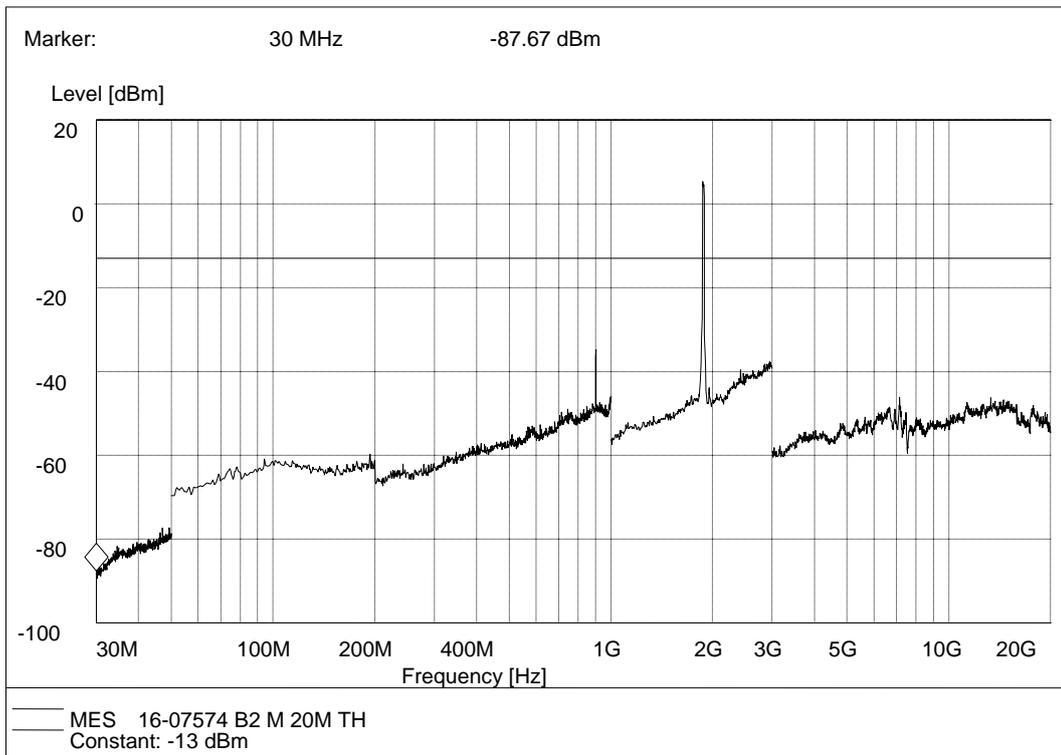
LTE Band 2 QPSK 10MHz BW Test Antenna Vertical



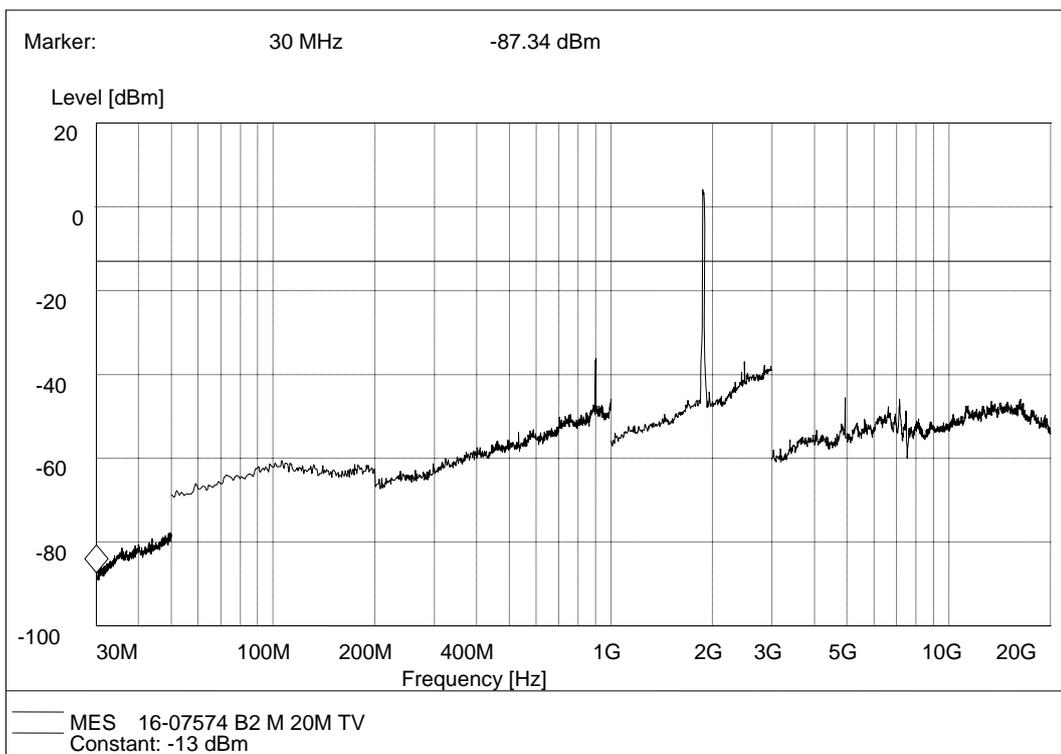
LTE Band 2 QPSK 15MHz BW Test Antenna Horizontal



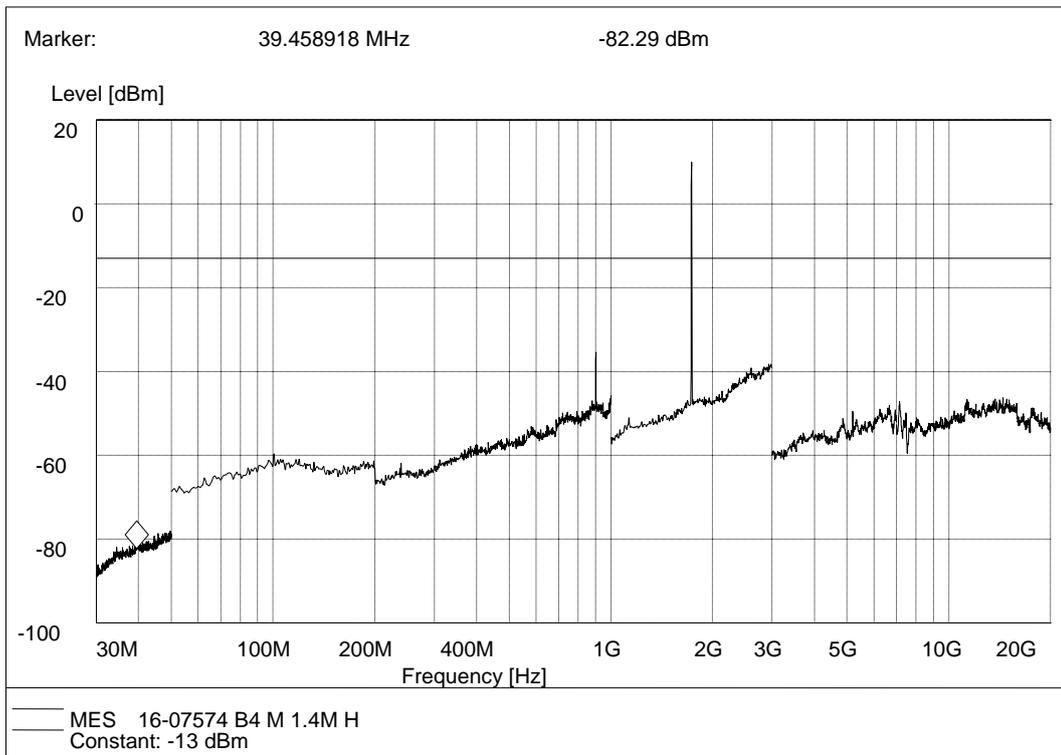
LTE Band 2 QPSK 15MHz BW Test Antenna Vertical



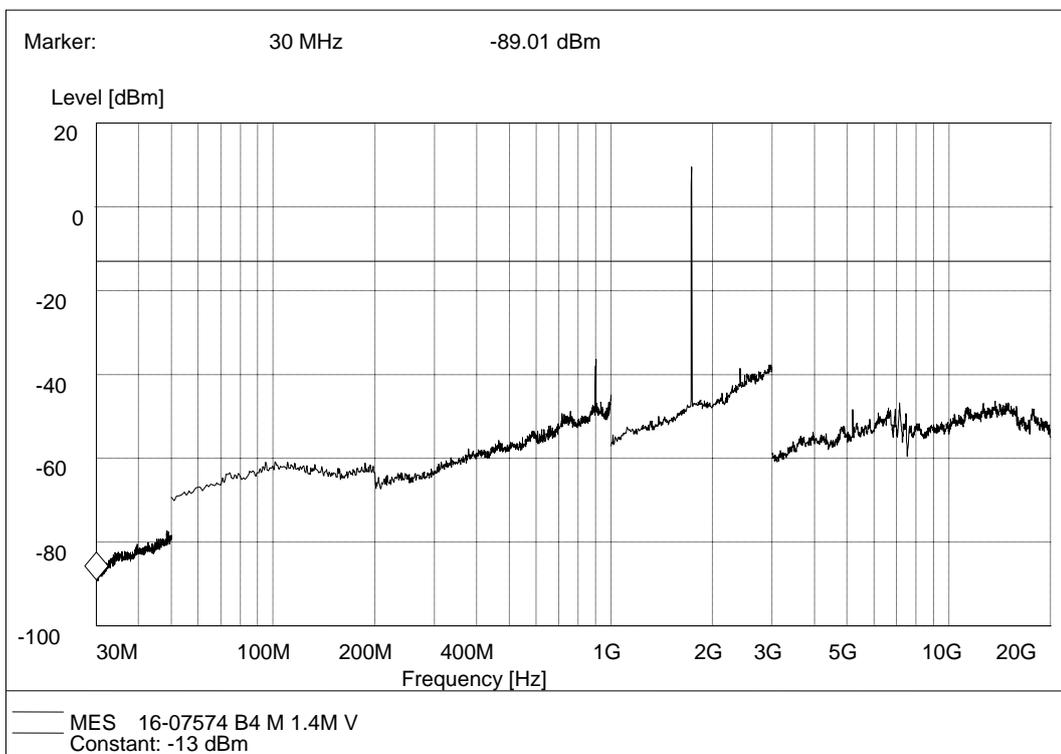
LTE Band 2 QPSK 20MHz BW Test Antenna Horizontal



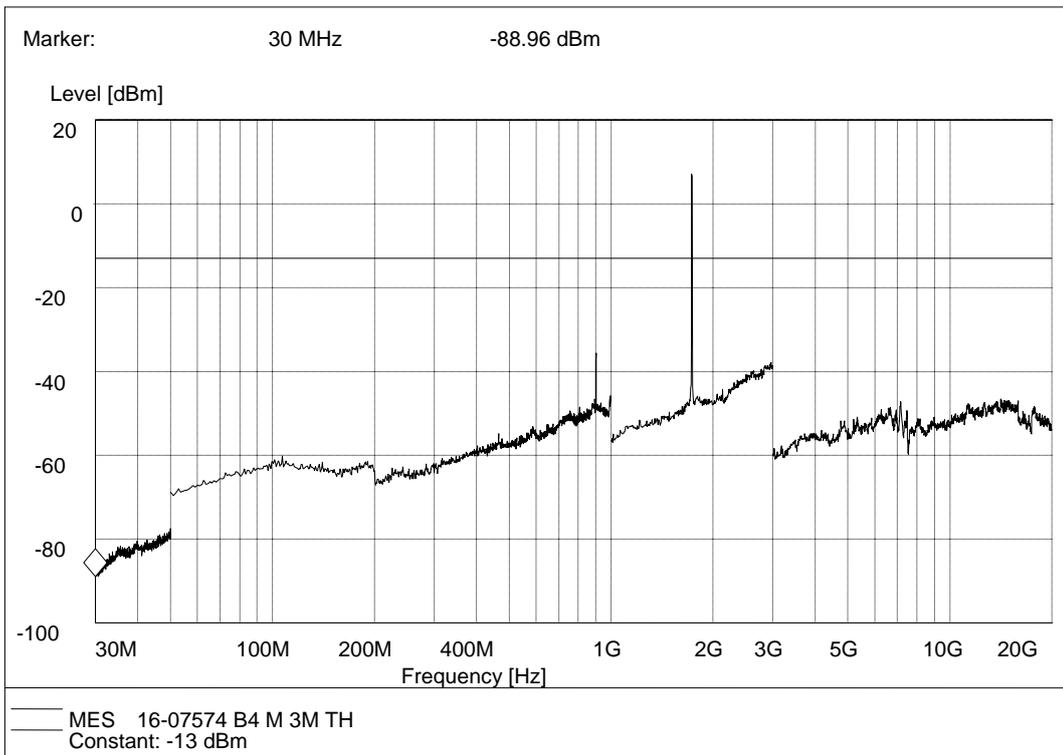
LTE Band 2 QPSK 20MHz BW Test Antenna Vertical



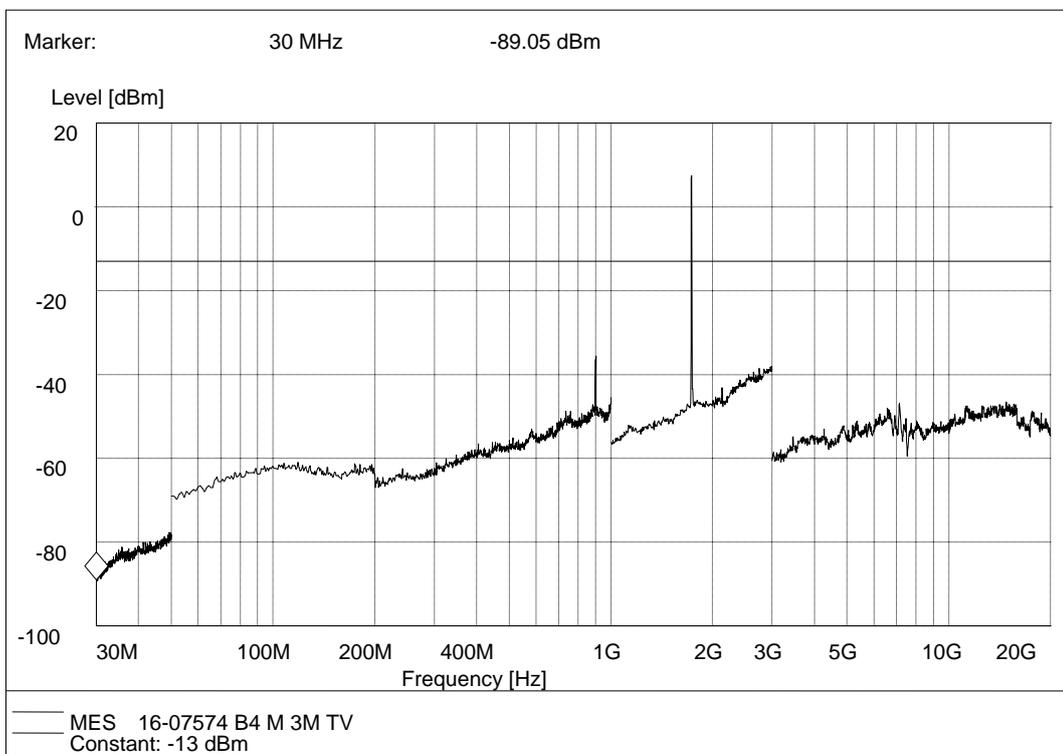
LTE Band 4 QPSK 1.4MHz BW Test Antenna Horizontal



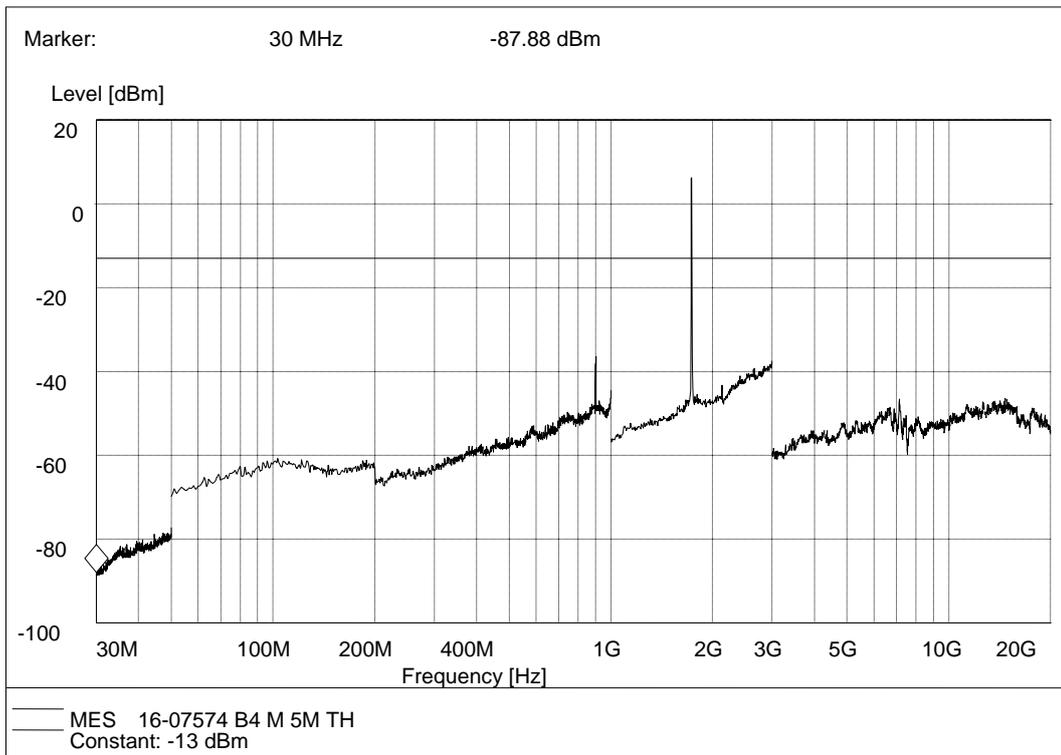
LTE Band 4 QPSK 1.4MHz BW Test Antenna Vertical



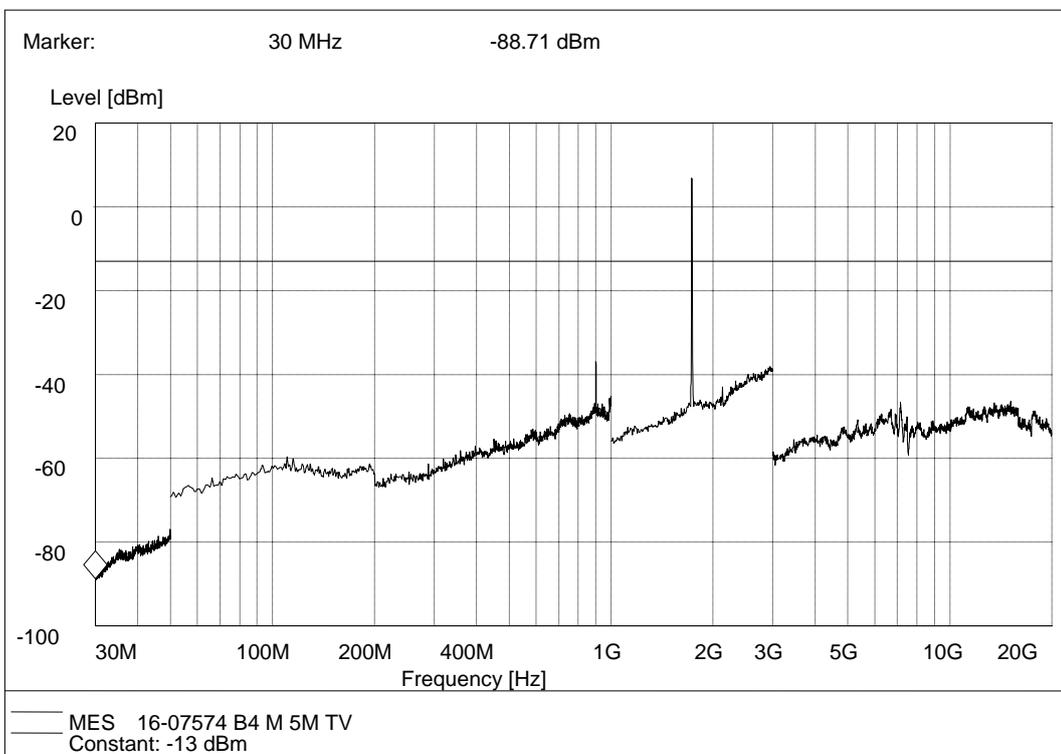
LTE Band 4 QPSK 3MHz BW Test Antenna Horizontal



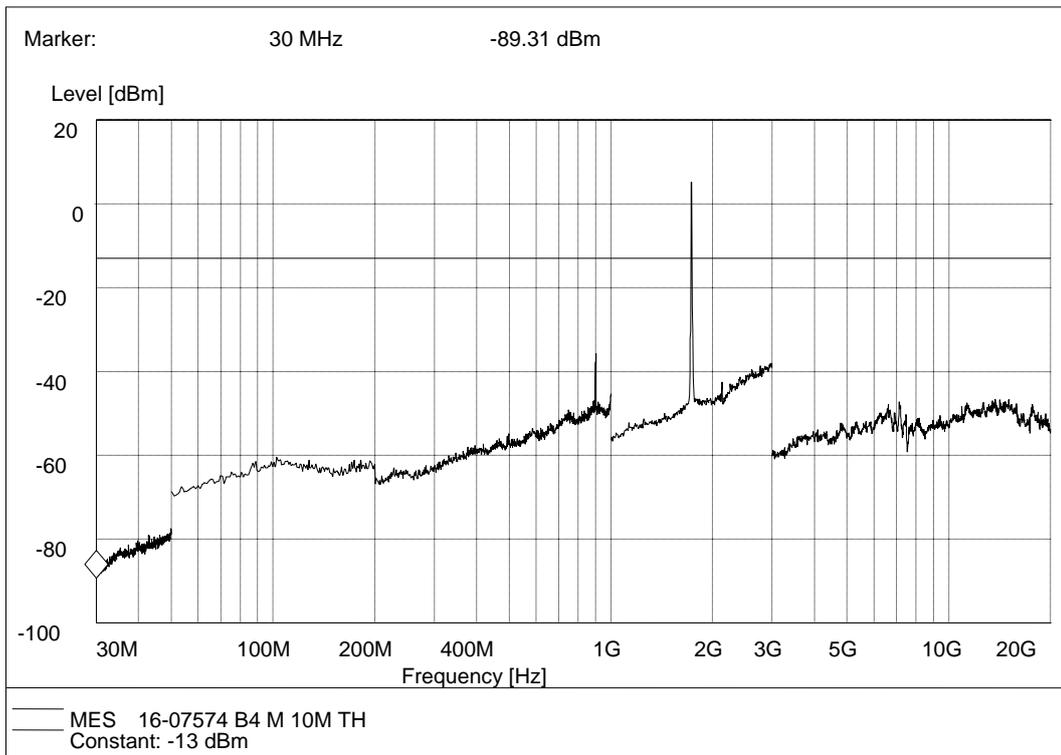
LTE Band 4 QPSK 3MHz BW Test Antenna Vertical



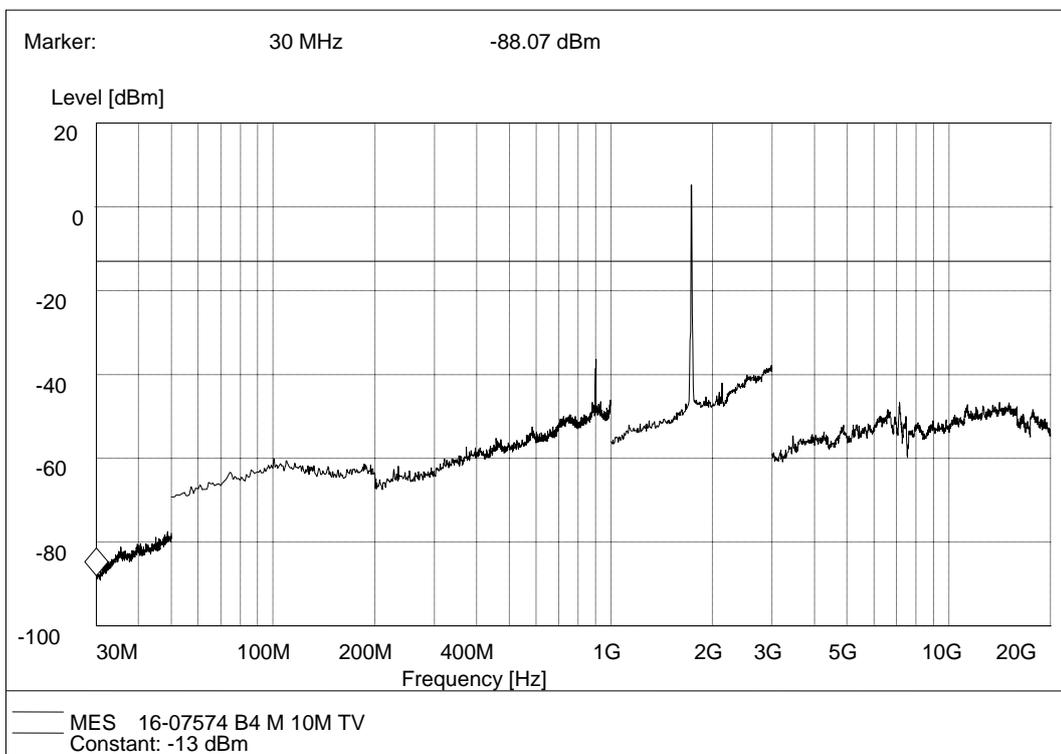
LTE Band 4 QPSK 5MHz BW Test Antenna Horizontal



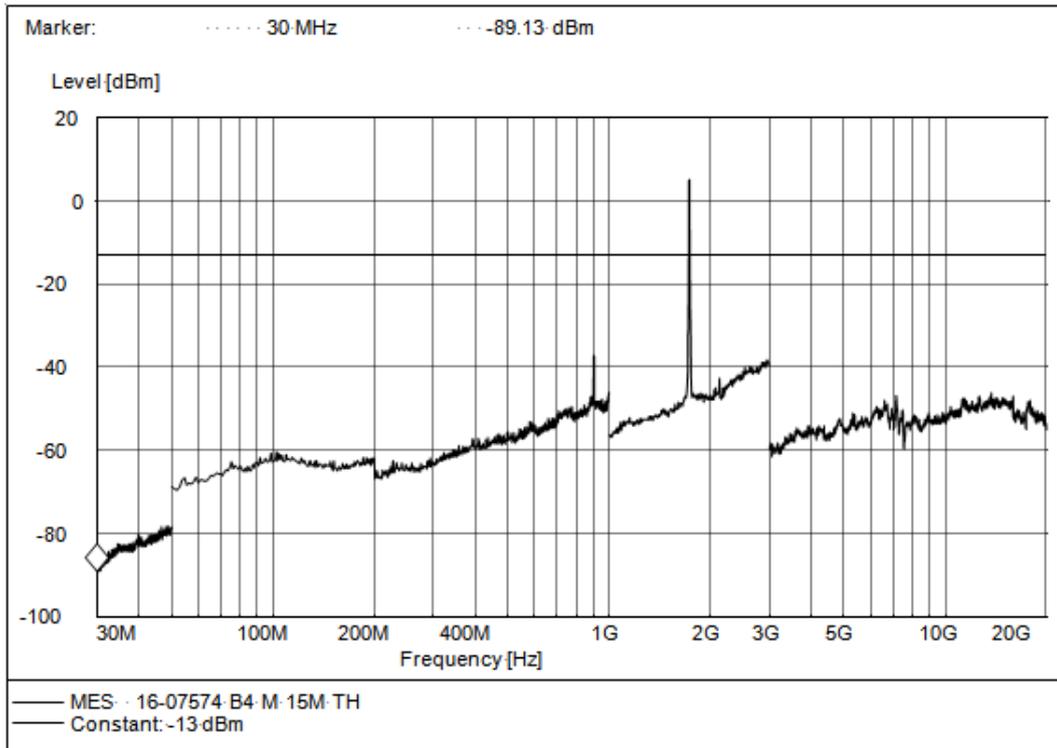
LTE Band 4 QPSK 5MHz BW Test Antenna Vertical



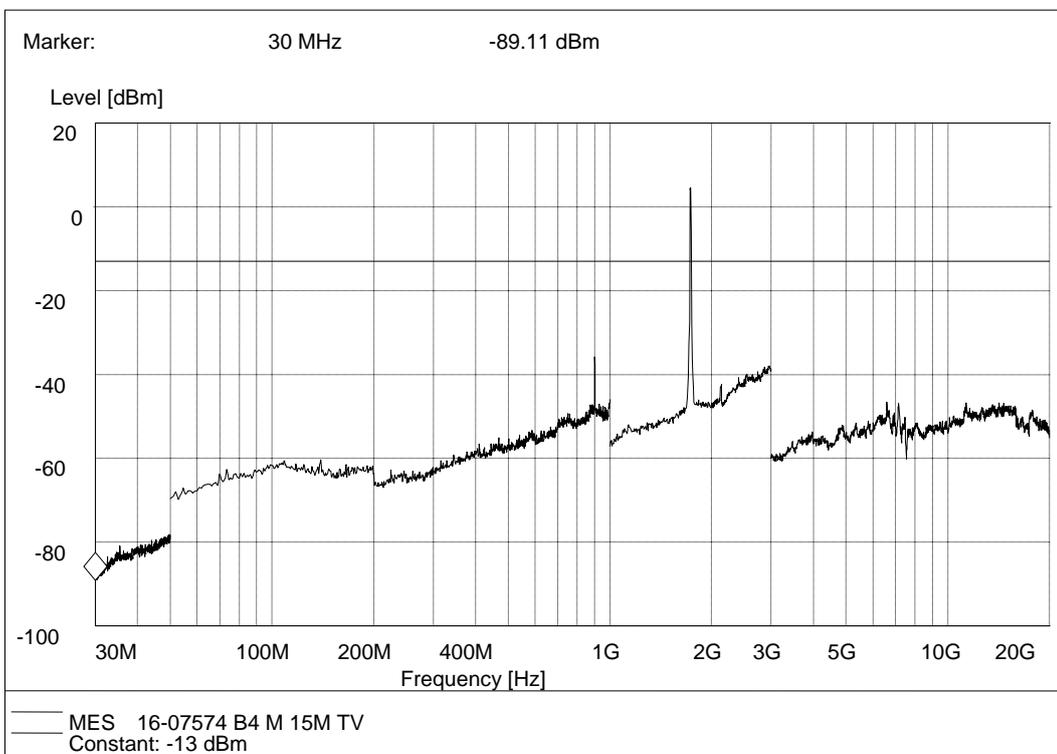
LTE Band 4 QPSK 10MHz BW Test Antenna Horizontal



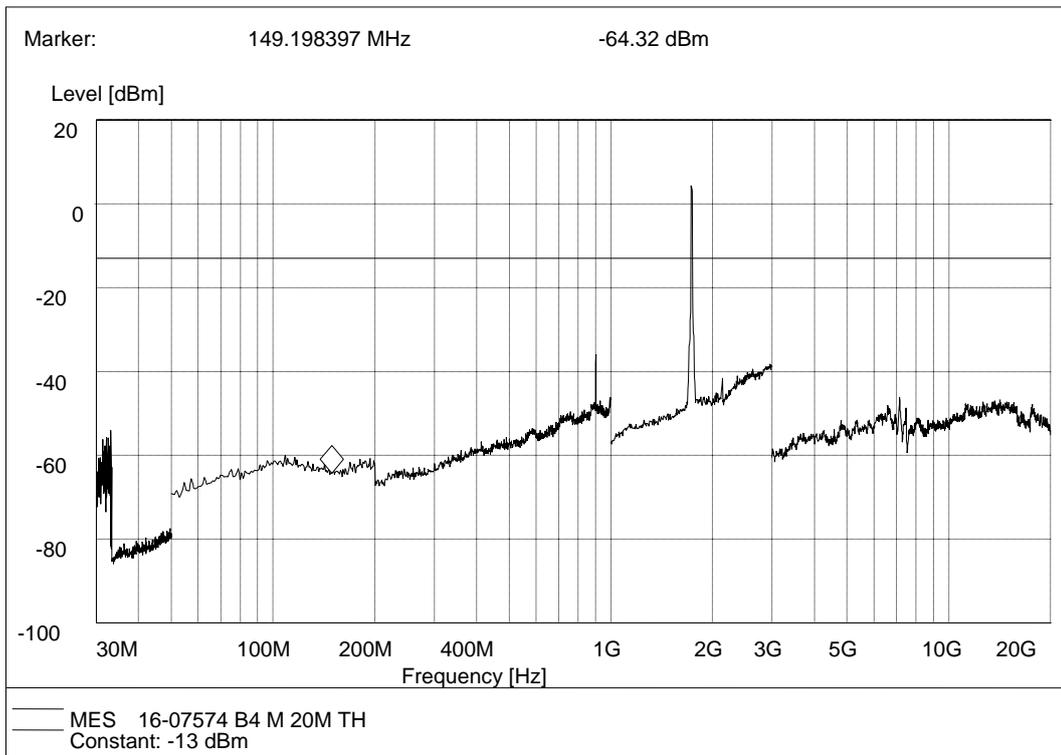
LTE Band 4 QPSK 10MHz BW Test Antenna Vertical



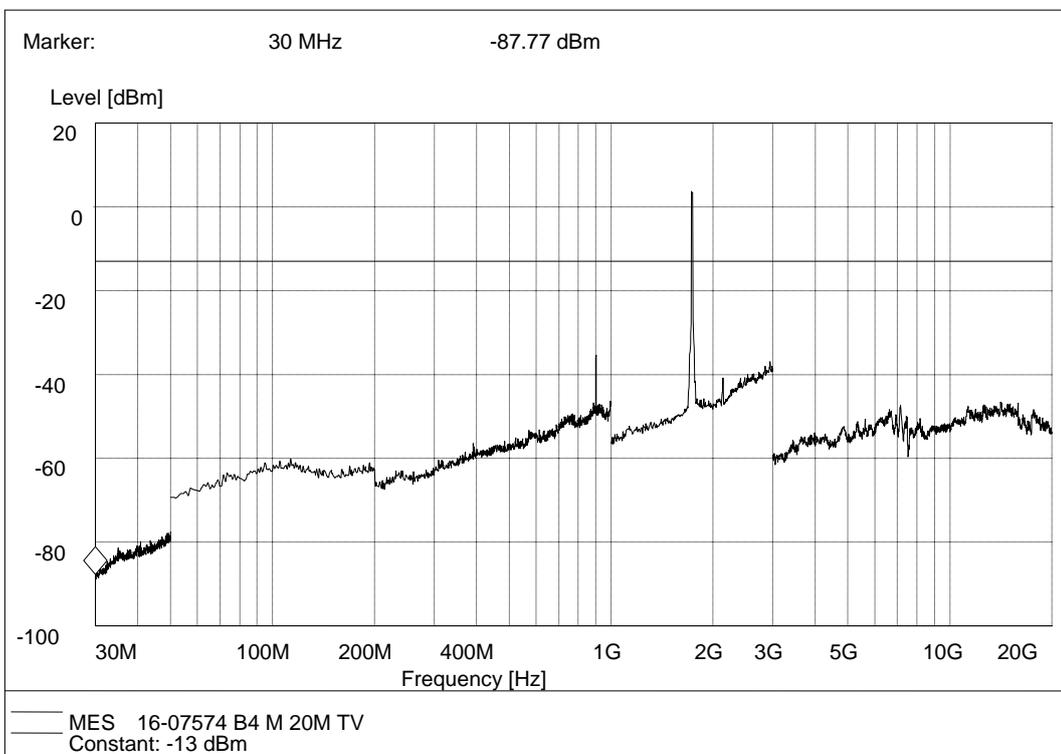
LTE Band 4 QPSK 15MHz BW Test Antenna Horizontal



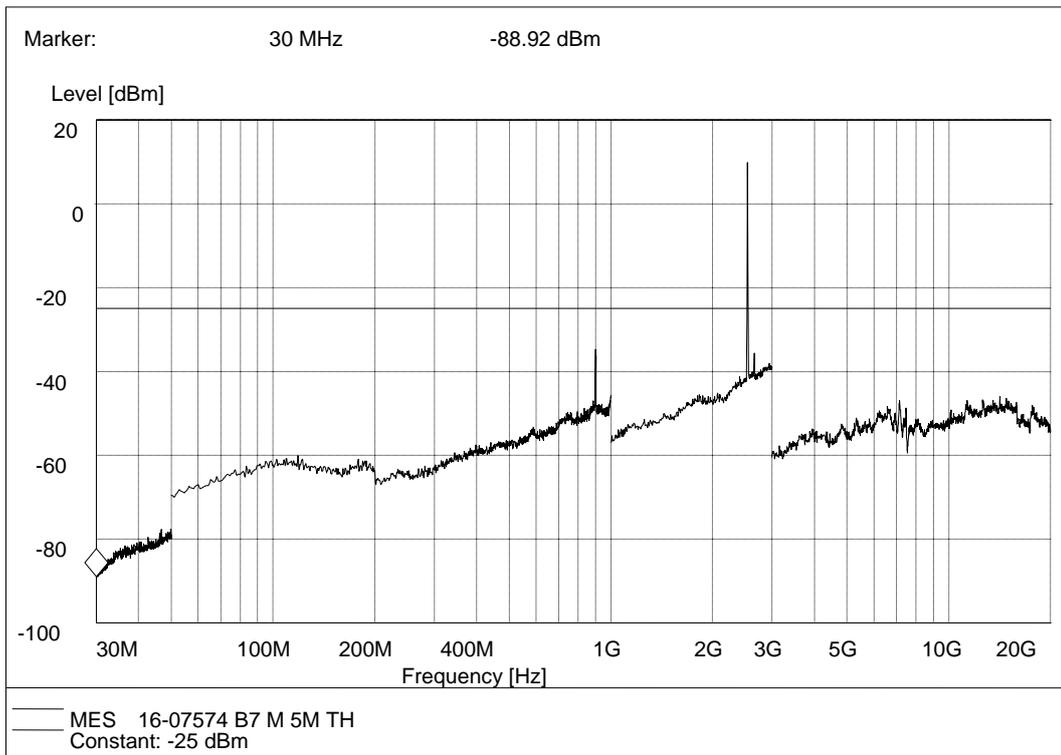
LTE Band 4 QPSK 15MHz BW Test Antenna Vertical



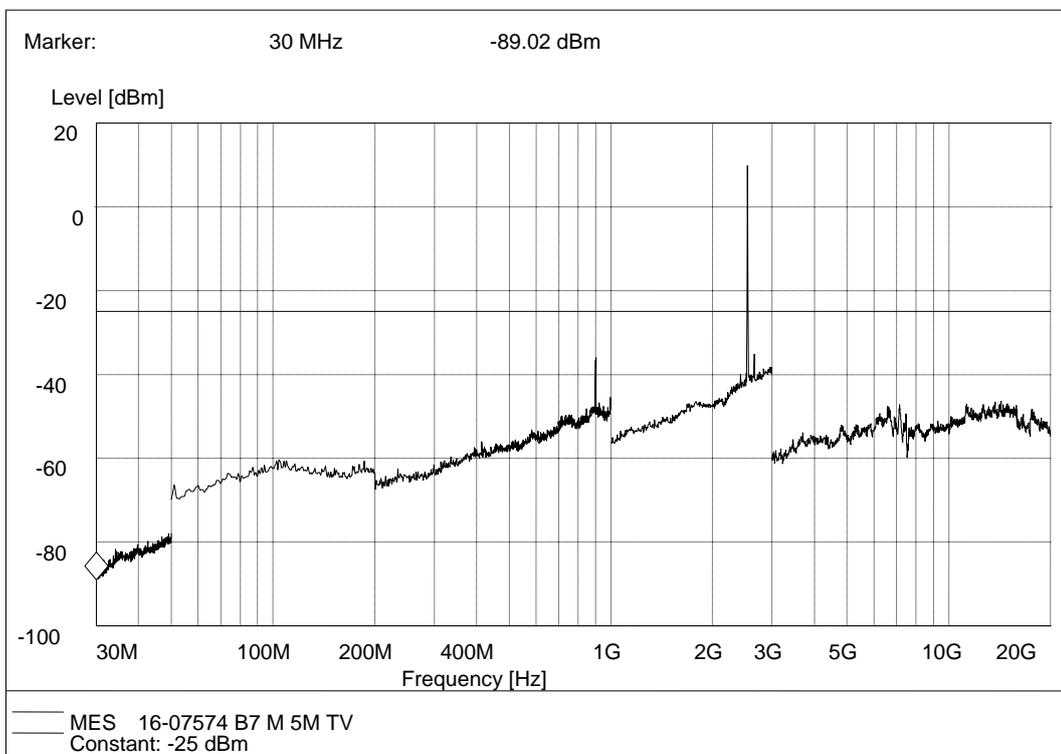
LTE Band 4 QPSK 20MHz BW Test Antenna Horizontal



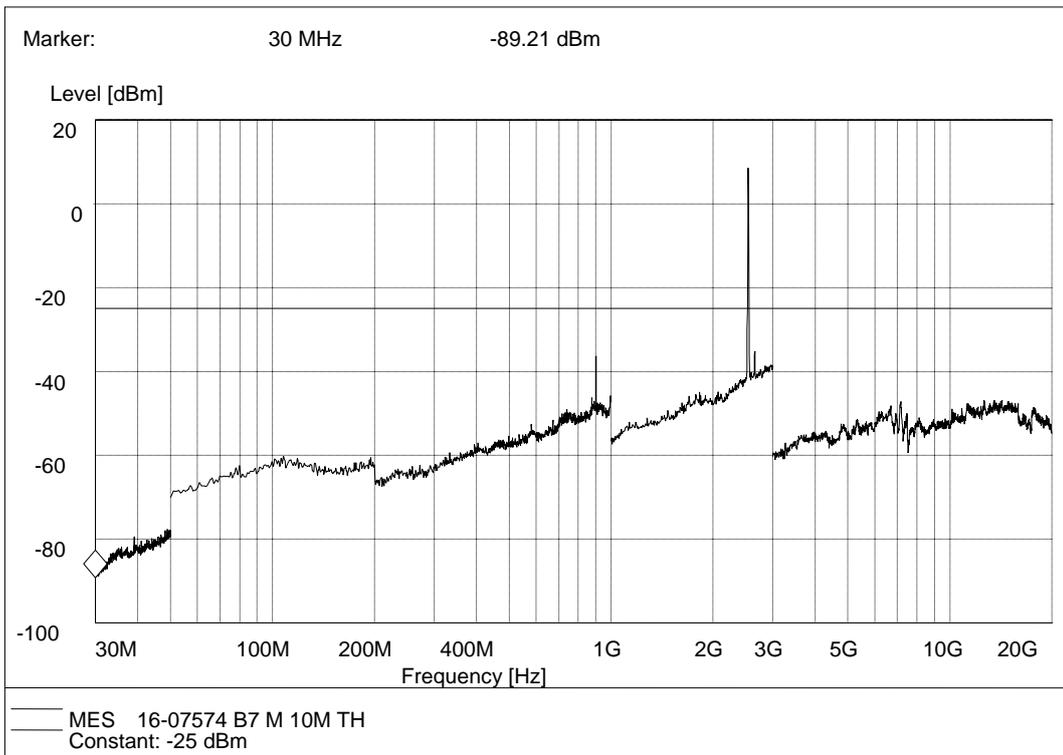
LTE Band 4 QPSK 20MHz BW Test Antenna Vertical



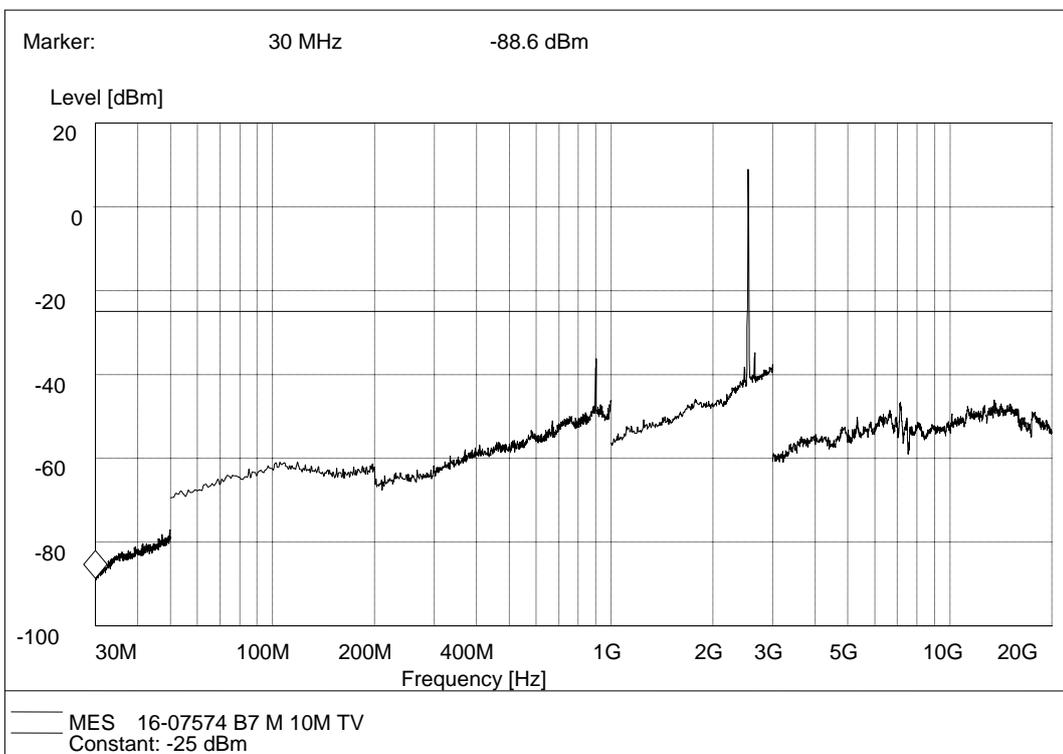
LTE Band 7 QPSK 5MHz BW Test Antenna Horizontal



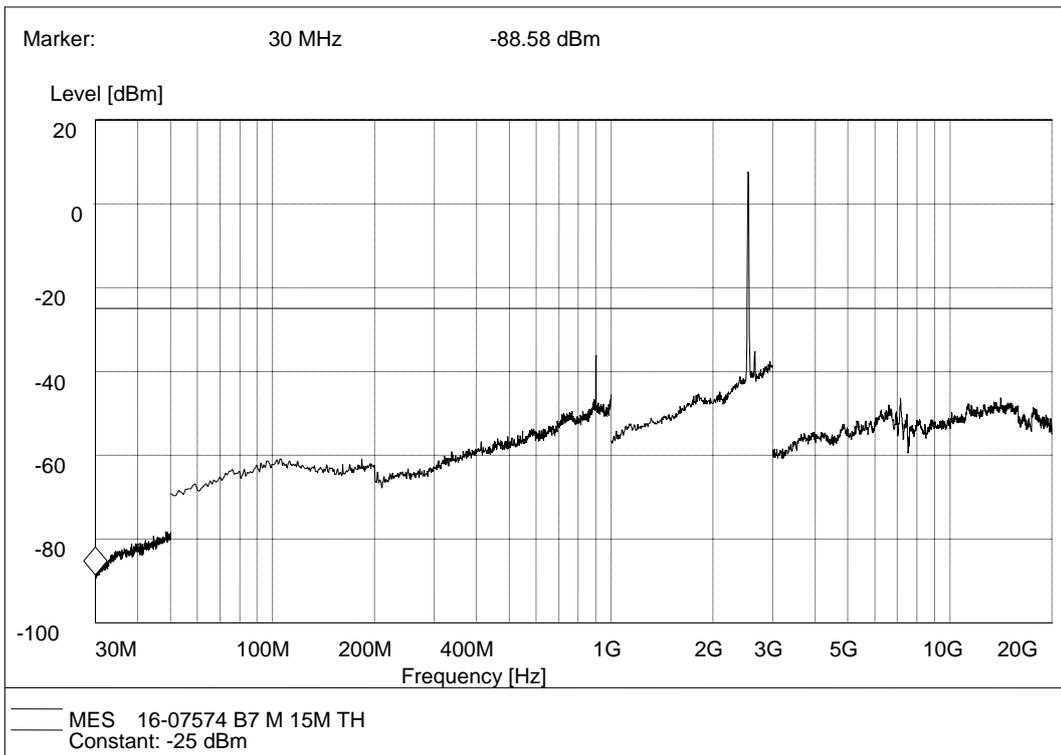
LTE Band 7 QPSK 5MHz BW Test Antenna Vertical



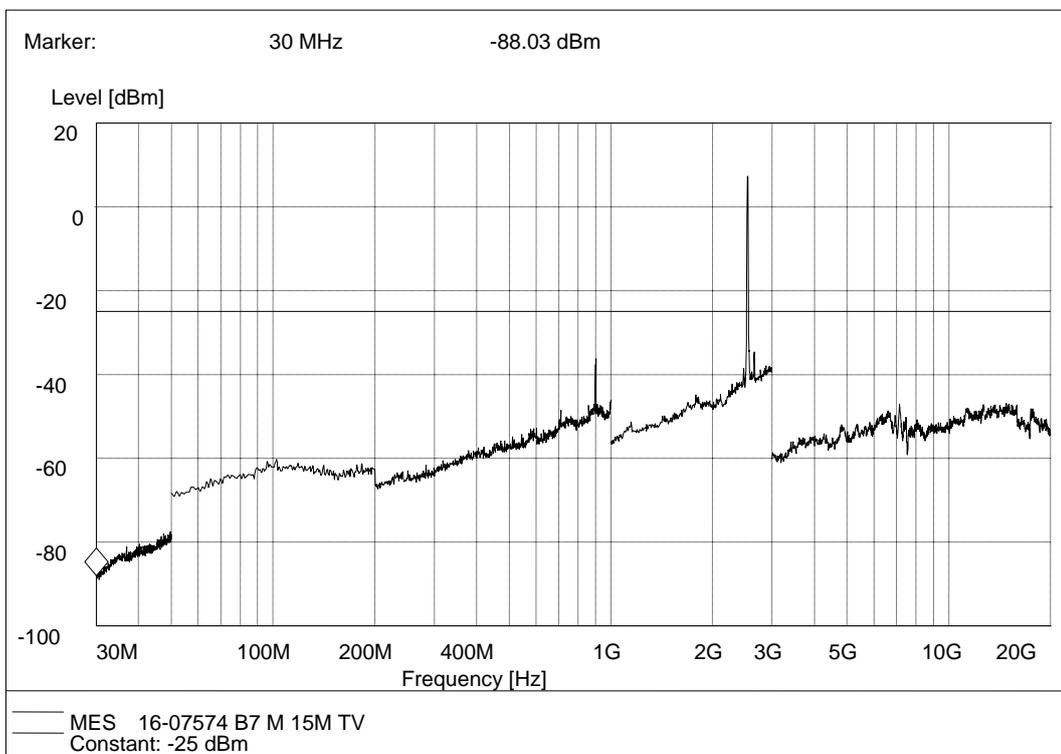
LTE Band 7 QPSK 10MHz BW Test Antenna Horizontal



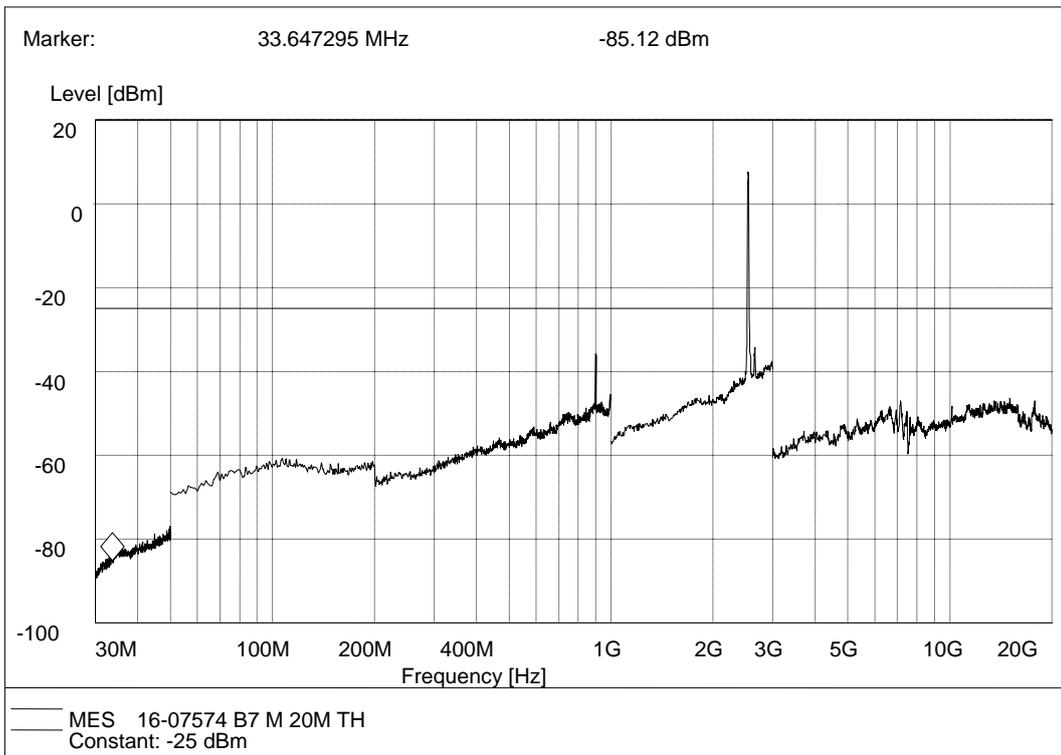
LTE Band 7 QPSK 10MHz BW Test Antenna Vertical



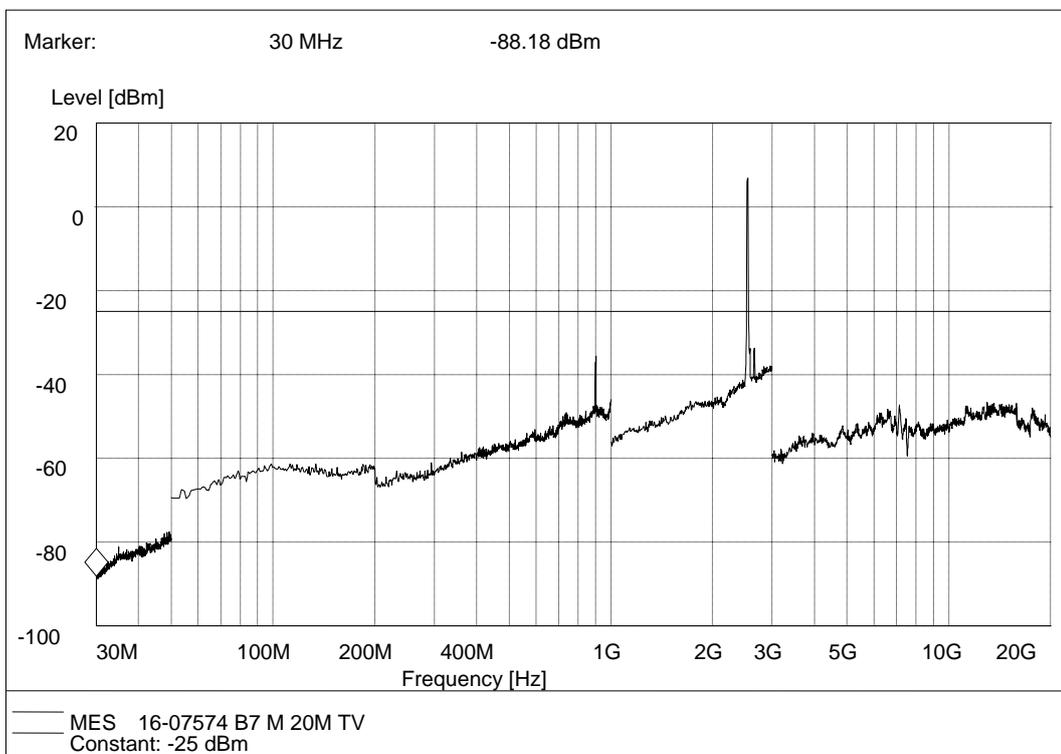
LTE Band 7 QPSK 15MHz BW Test Antenna Horizontal



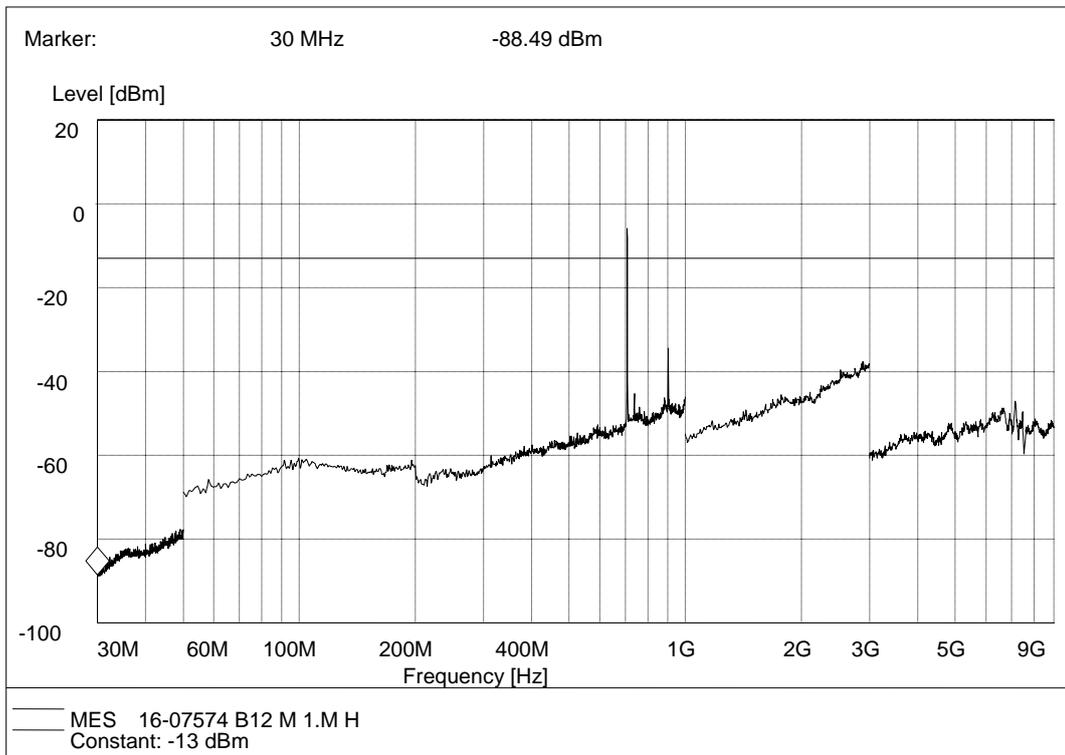
LTE Band 7 QPSK 15MHz BW Test Antenna Vertical



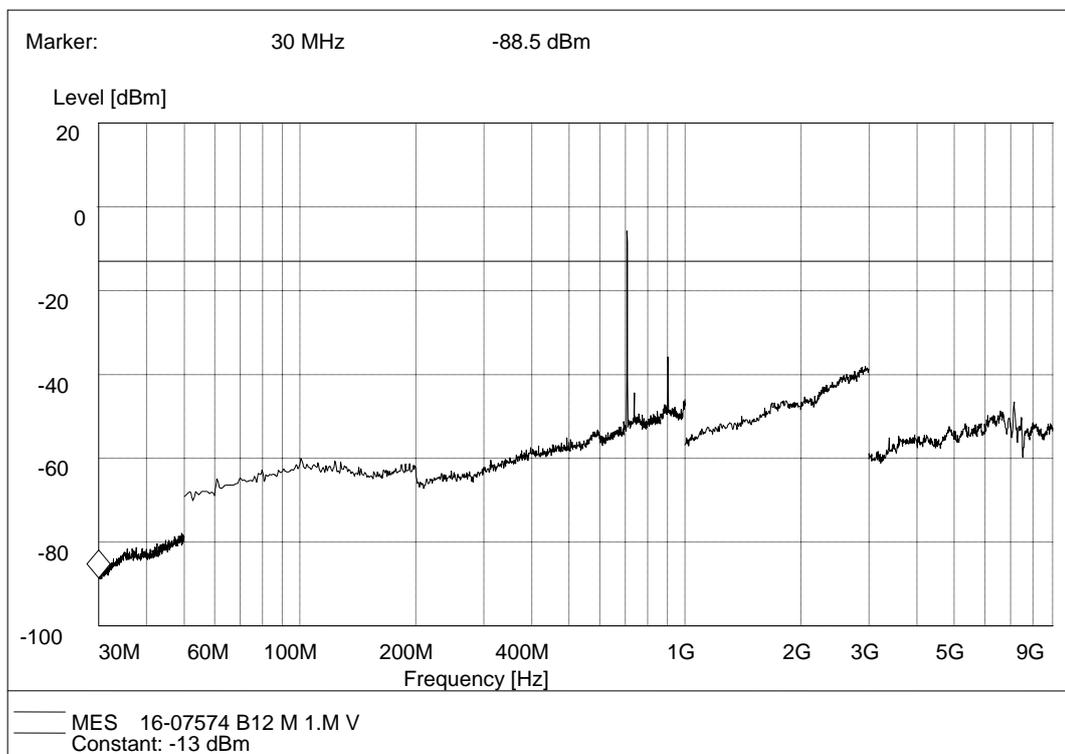
LTE Band 7 QPSK 20MHz BW Test Antenna Horizontal



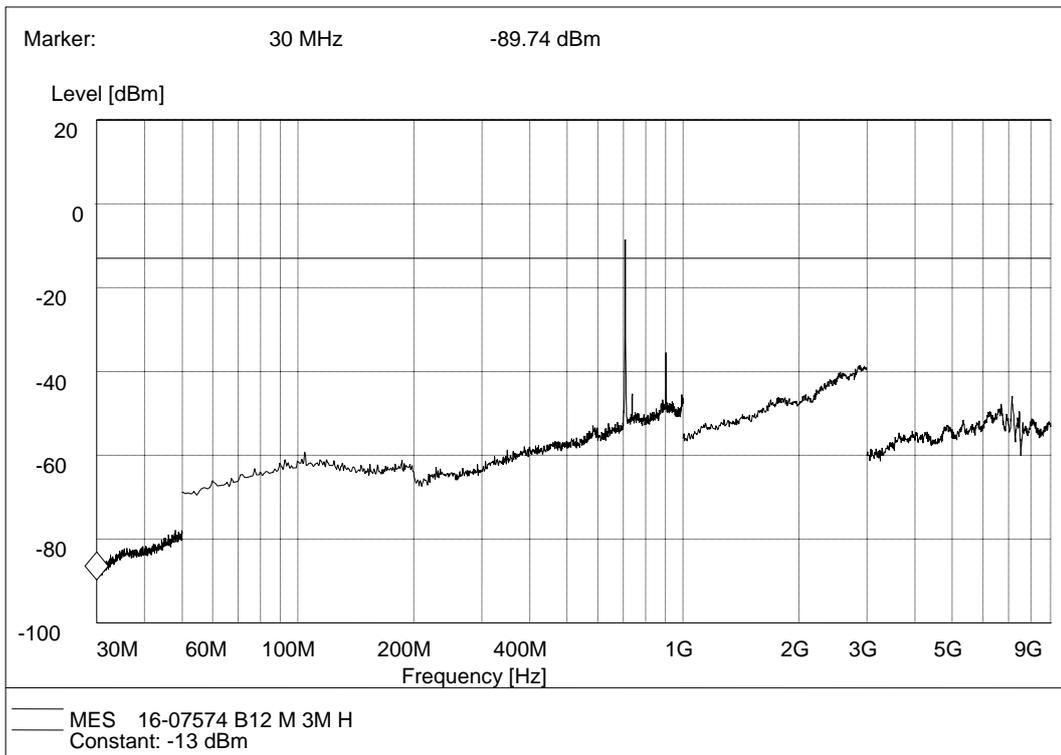
LTE Band 7 QPSK 20MHz BW Test Antenna Vertical



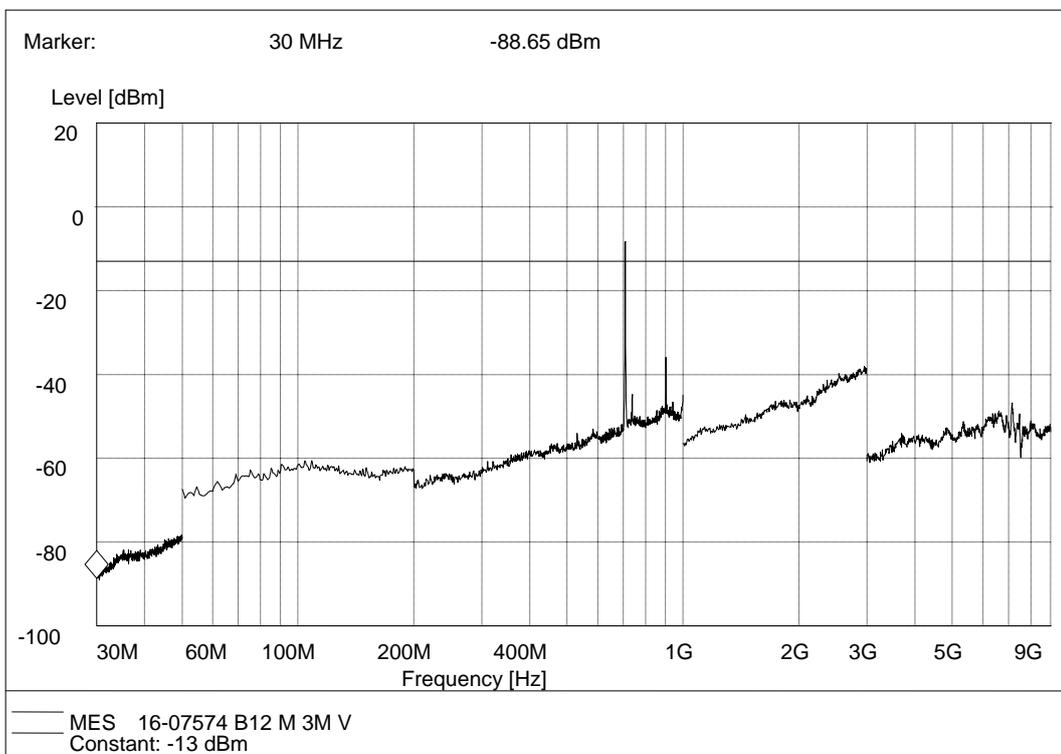
LTE Band 12 QPSK 1.4MHz BW Test Antenna Horizontal



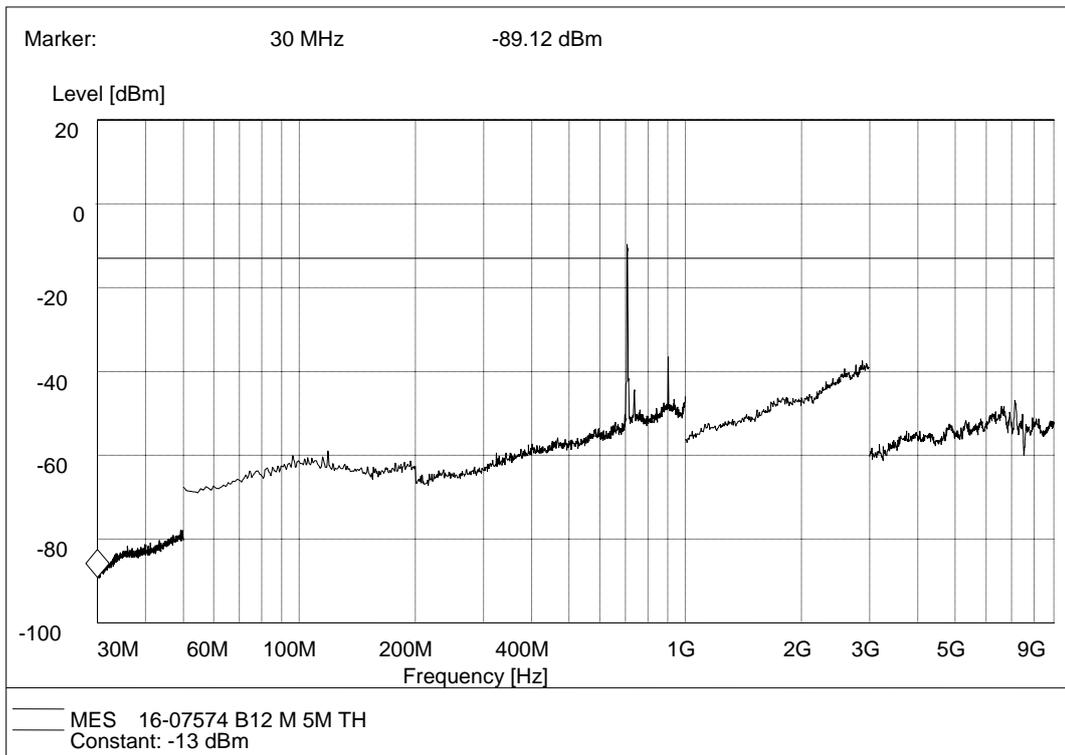
LTE Band 12 QPSK 1.4MHz BW Test Antenna Vertical



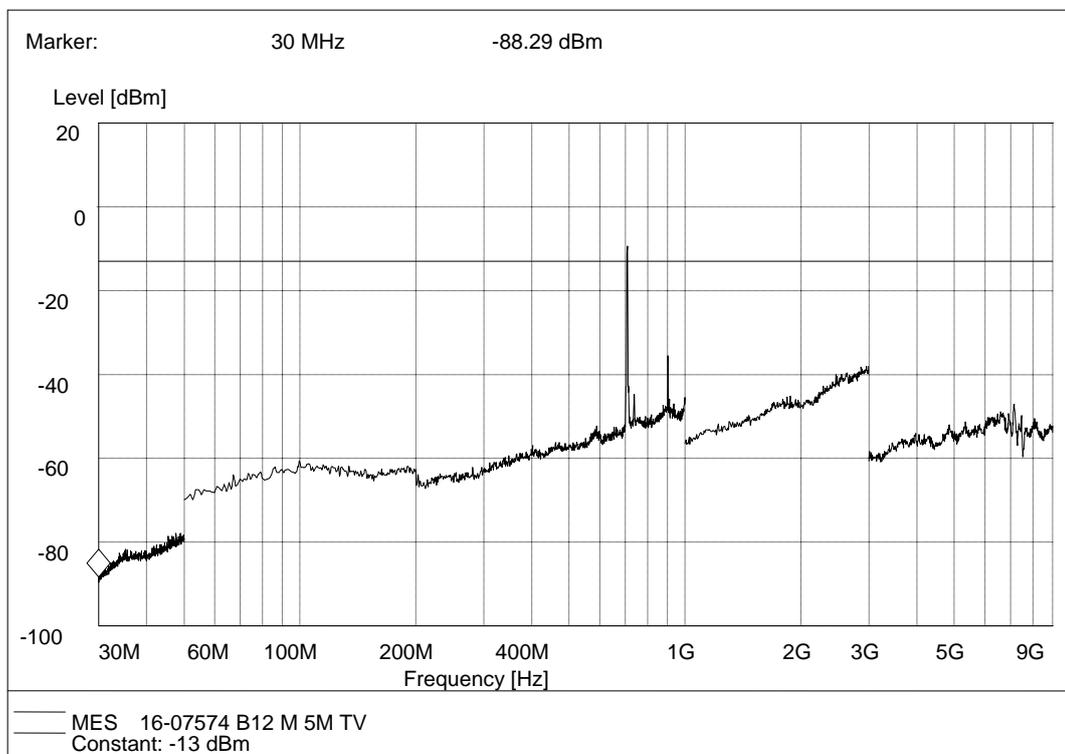
LTE Band 12 QPSK 3MHz BW Test Antenna Horizontal



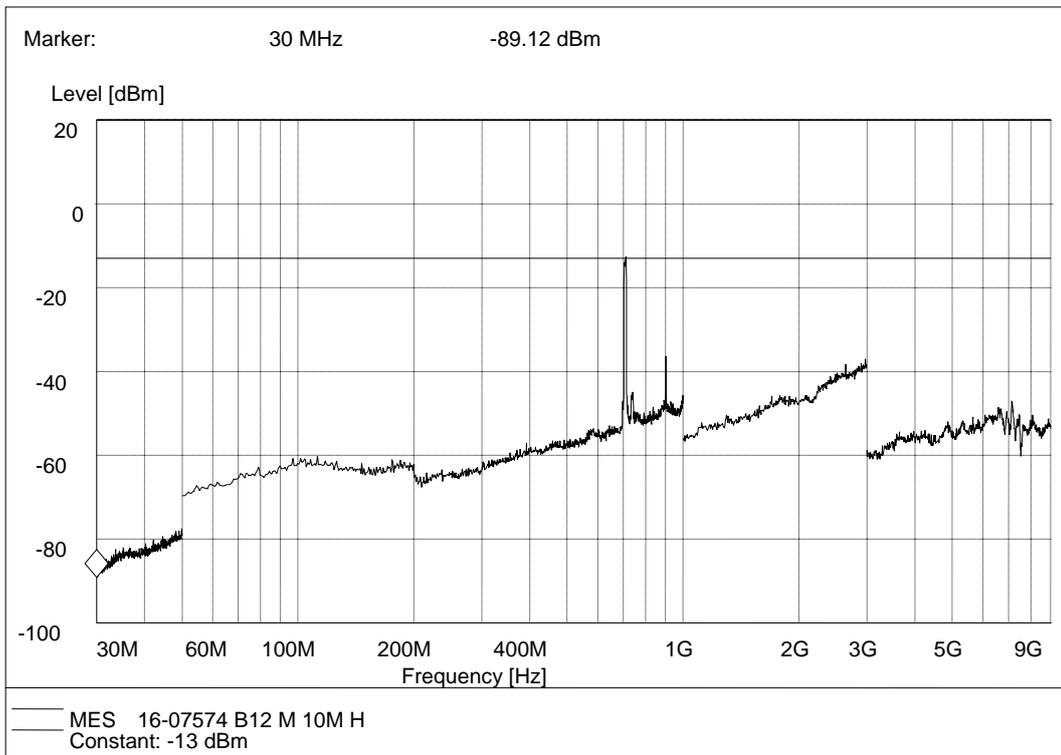
LTE Band 12 QPSK 3MHz BW Test Antenna Vertical



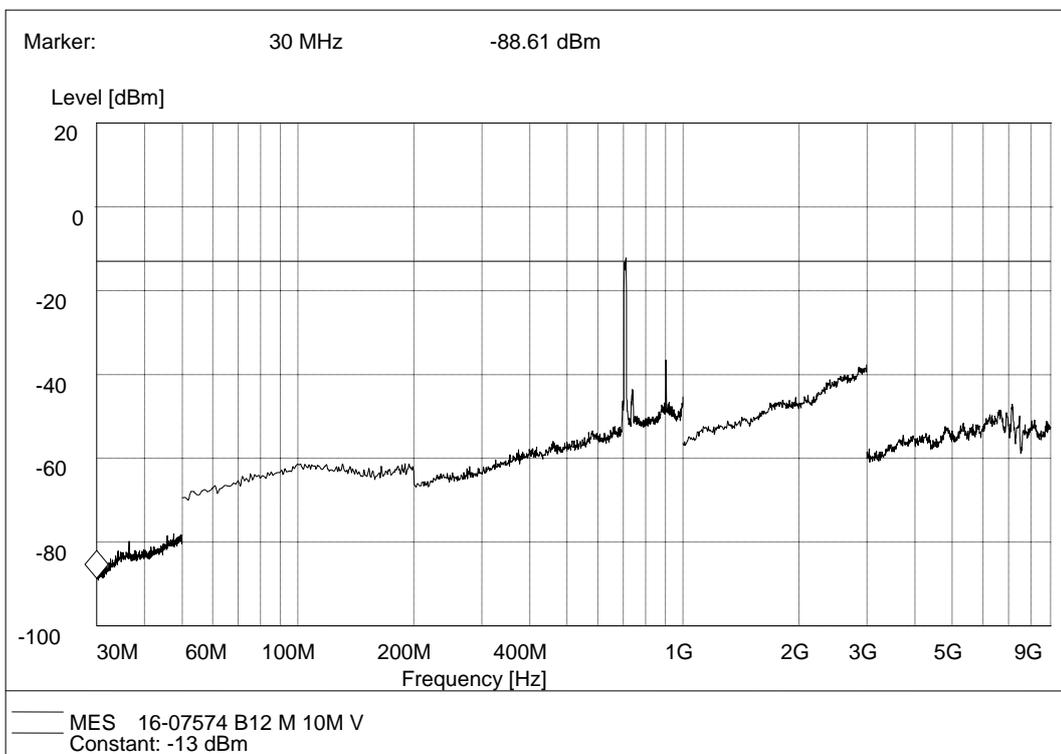
LTE Band 12 QPSK 5MHz BW Test Antenna Horizontal



LTE Band 12 QPSK 5MHz BW Test Antenna Vertical



LTE Band 12 QPSK 10MHz BW Test Antenna Horizontal



LTE Band 12 QPSK 10MHz BW Test Antenna Vertical

**3. LIST OF MEASURING EQUIPMENT**

Description	Manufacturer	Model	Serial No.	Test Date	Due Date	Remark
EMI Test Receiver	R&S	ESIB26	A0304218	2016.06.02	2017.06.01	Radiation
Full-Anechoic Chamber	Albatross	12.8m*6.8m* 6.4m	A0412372	2016.06.02	2017.06.01	Radiation
Loop Antenna	Schwarz beck	HFH2-Z2	100047	2016.06.02	2017.06.01	Radiation
Ultra-wideband antenna (30MHz~1GHz)	R&S	HL562	100089	2016.06.02	2017.06.01	Radiation
Double ridge horn antenna (1G~18GHz)	R&S	HF906	100150	2016.06.02	2017.06.01	Radiation
Test Antenna – Horn (18G-26.5GHz)	ETS	3160-09	A0902607	2016.06.02	2017.06.01	Radiation
Amplifier 20M~3GHz	R&S	PAP-0203H	22018	2016.06.02	2017.06.01	Radiation
Amplifier 1G~18GHz	R&S	MITEQ AFS42-00101 800	25-S-42	2016.06.02	2017.06.01	Radiation
Amplifier 18G~40GHz	R&S	JS42-180026 00-28-5A	12111.0980.00	2016.06.02	2017.06.01	Radiation
Spectrum Analyzer	KEYSIGHT	N9030A	MY55410524	2016.05.05	2017.05.04	Conducted
Power Meter	R&S	NRP2	1020.1809.02	2016.06.02	2017.06.01	Conducted
Power Sensor	R&S	NRP-Z81	823.3618.03	2016.06.02	2017.06.01	Conducted
System Simulator	R&S	CMW500	148888	2016.06.02	2017.06.01	Conducted
LISN	ROHDE&SC HWARZ	ESH2-Z5	A0304221	2016.06.02	2017.06.01	Conducted
Test Receiver	R&S	ESCS30	A0304260	2016.06.02	2017.06.01	Conducted
Cable	SUNHNER	SUCOFLEX 100	/	2016.06.02	2017.06.01	Radiation
Cable	SUNHNER	SUCOFLEX 104	/	2016.06.02	2017.06.01	Radiation



4. UNCERTAINTY OF EVALUATION

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2

Measurement	Frequency	Uncertainty
Conducted emissions	9kHz~30MHz	2.35dB
Radiated emissions	9kHz~30MHz	2.59dB
	30MHz~1000MHz	2.45dB
	1G~18GHz	2.21dB
	18G~40GHz	1.96dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

**** END OF REPORT ****