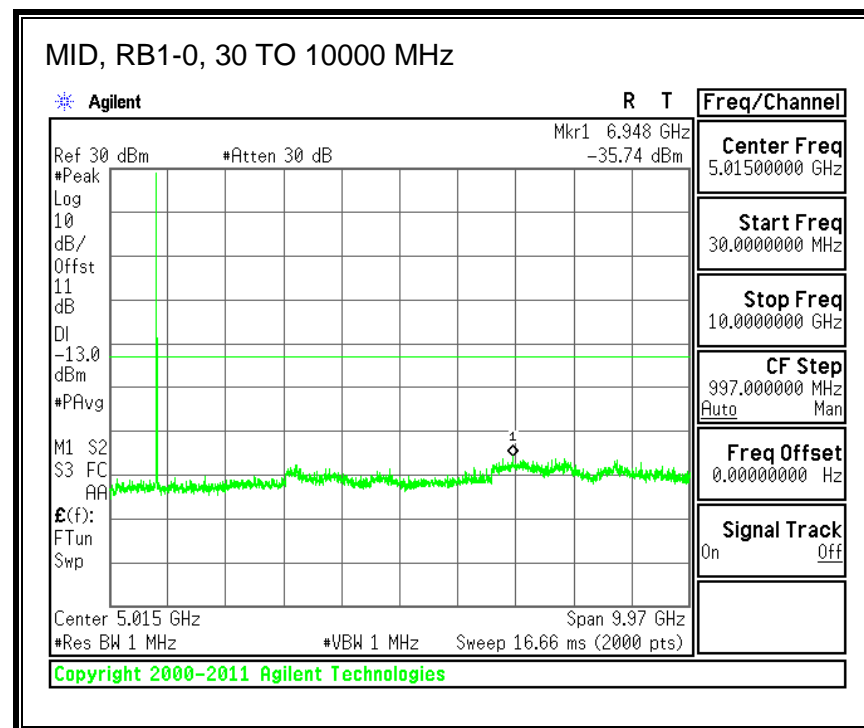
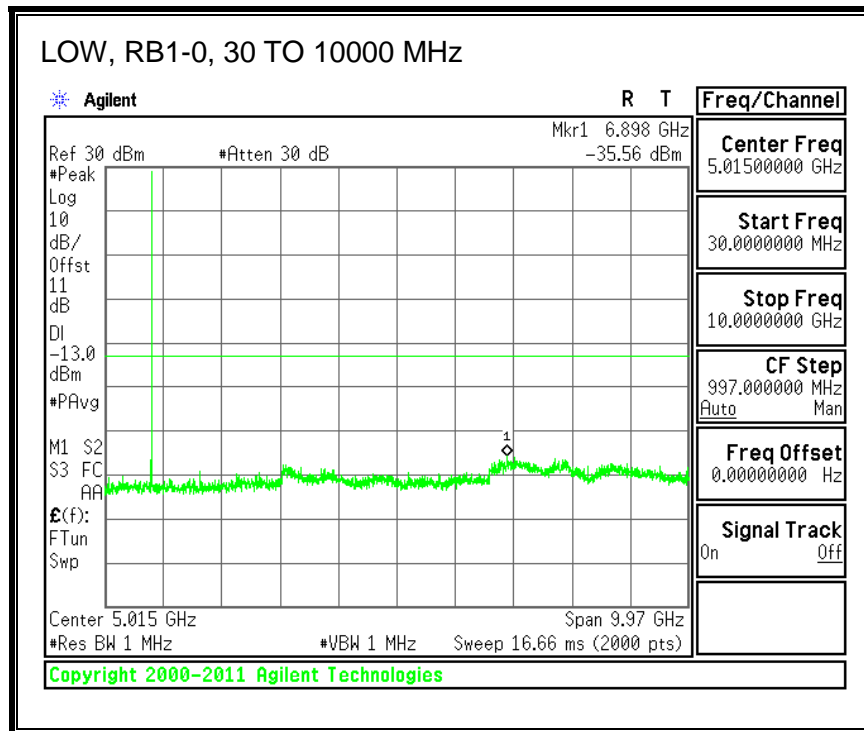
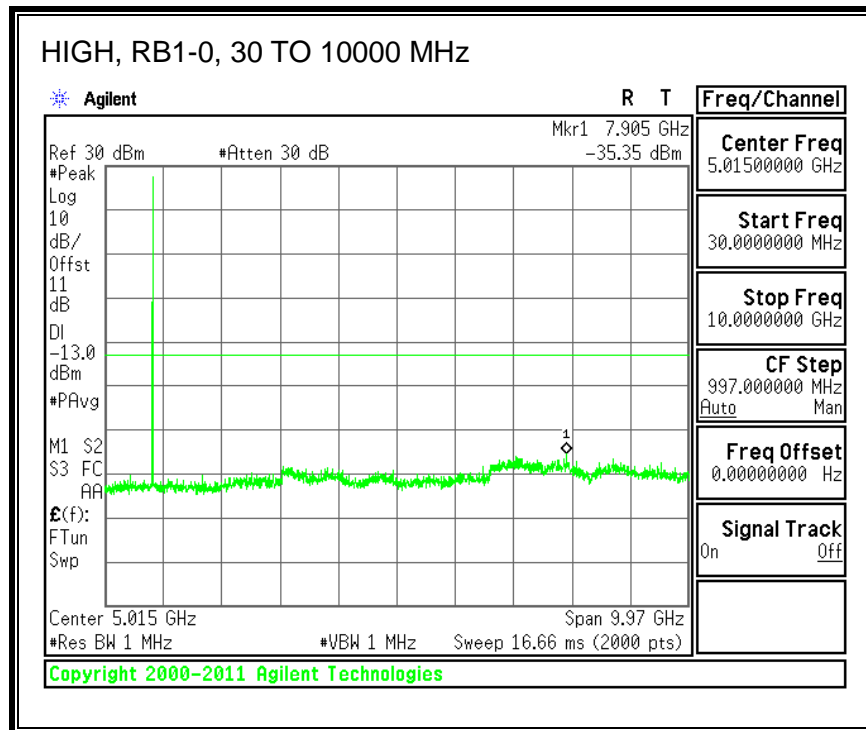
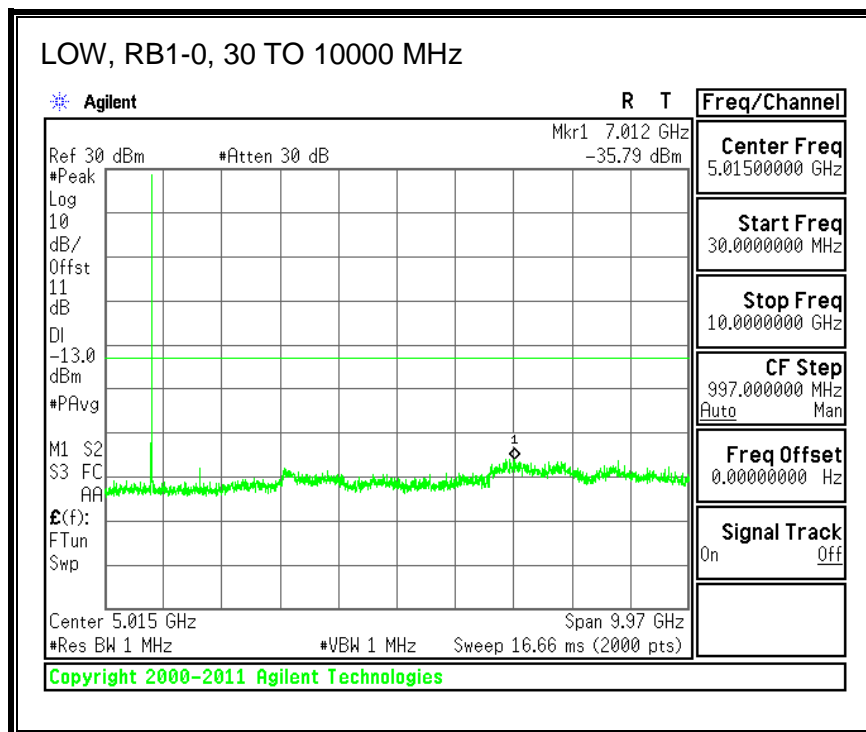


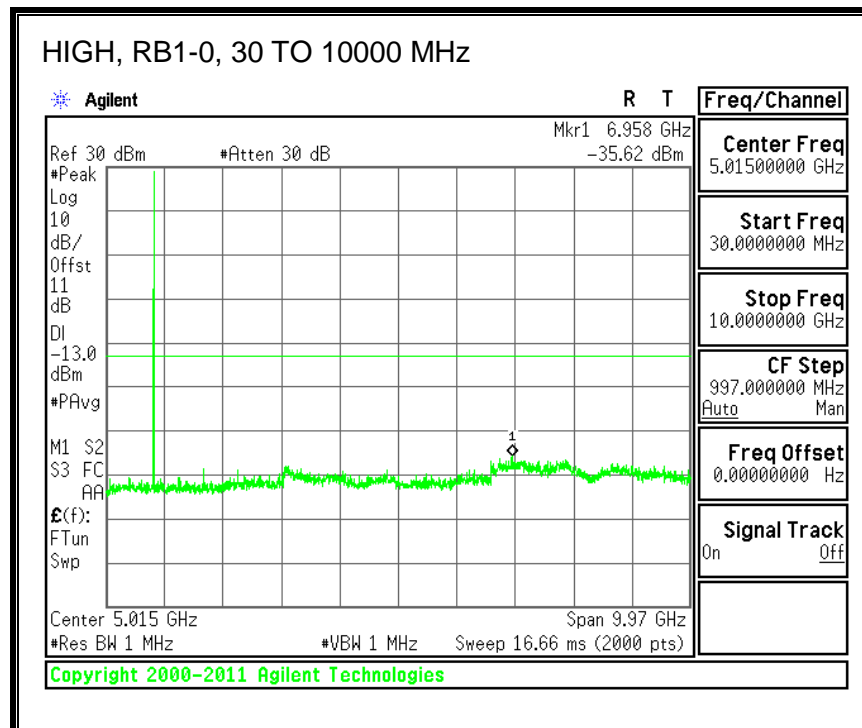
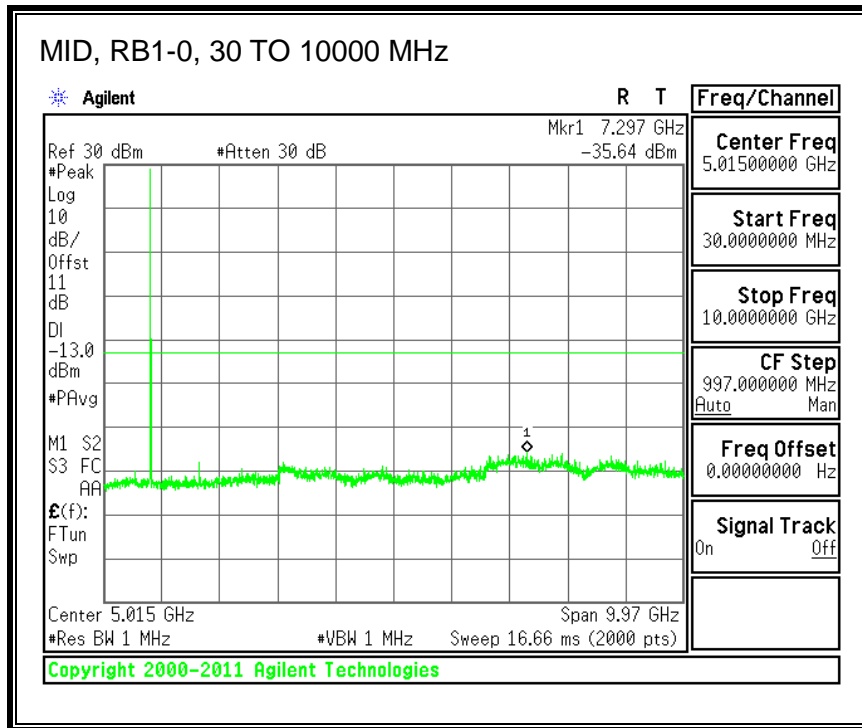
QPSK, (5.0 MHz BAND WIDTH)



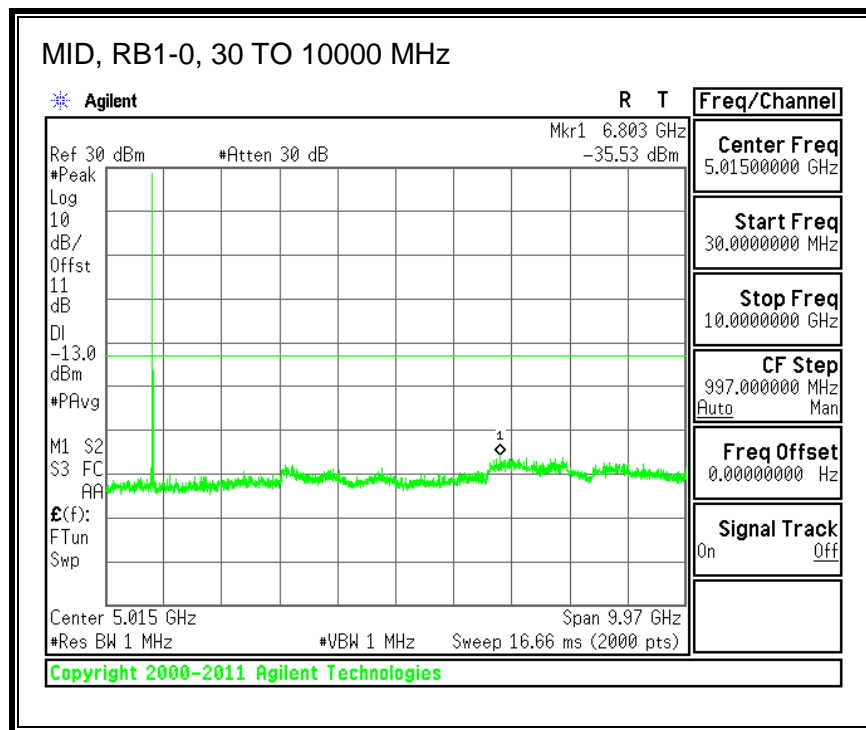
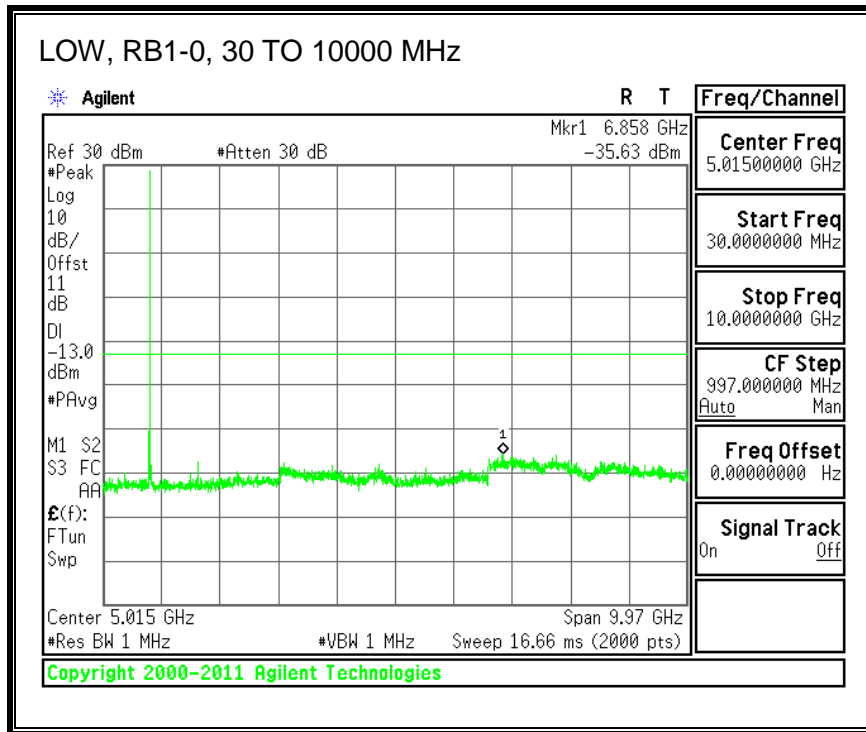


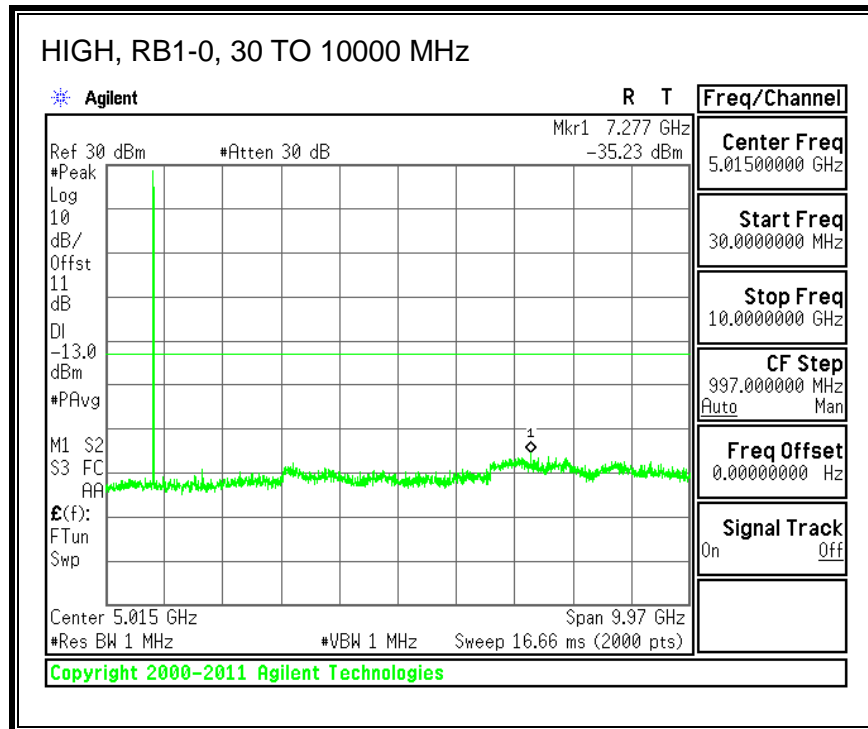
16QAM, (5.0 MHz BAND WIDTH)



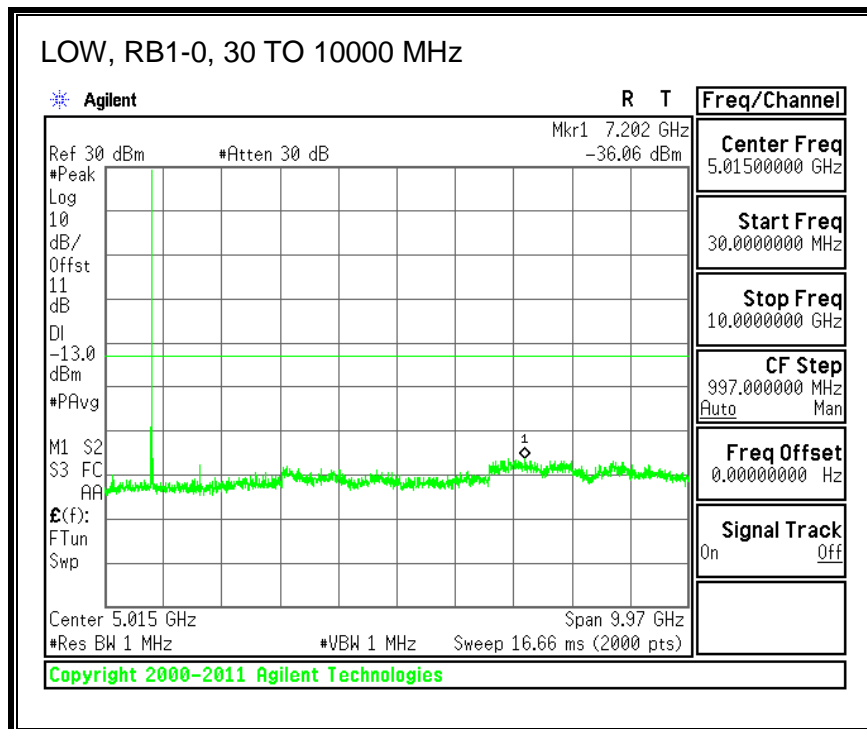


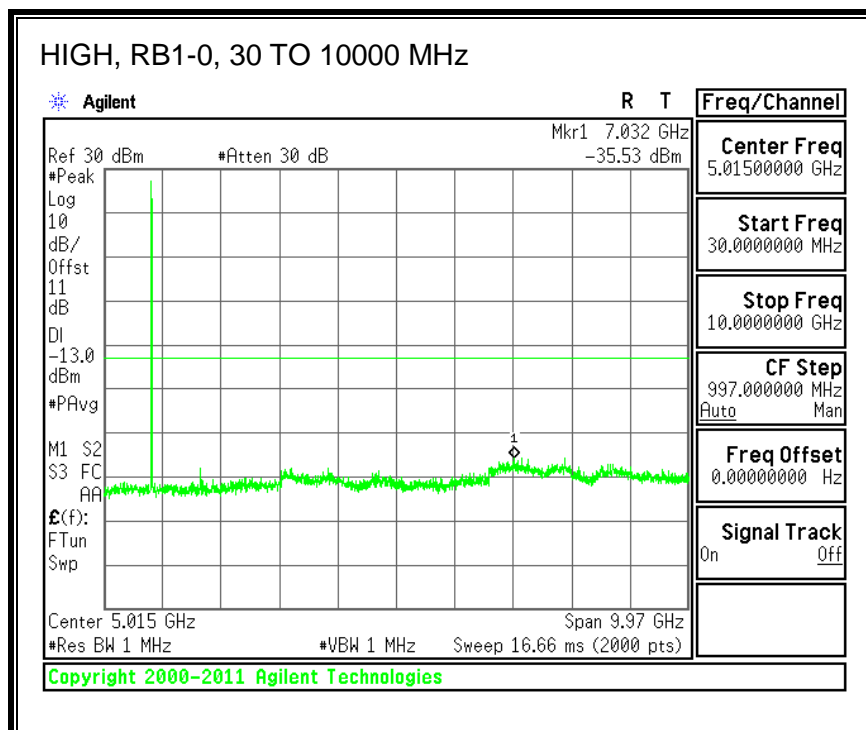
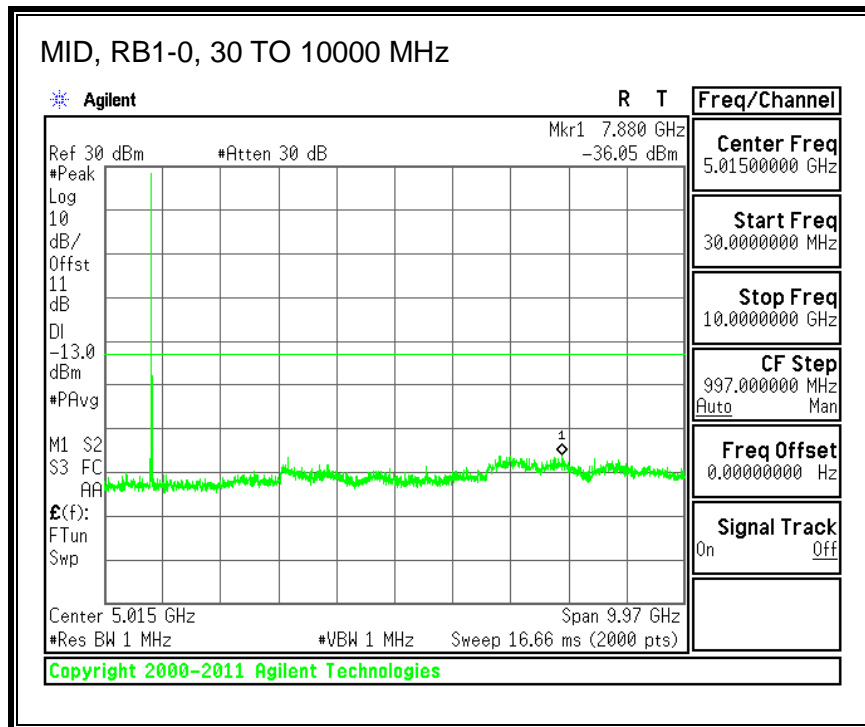
QPSK, (10.0 MHz BAND WIDTH)





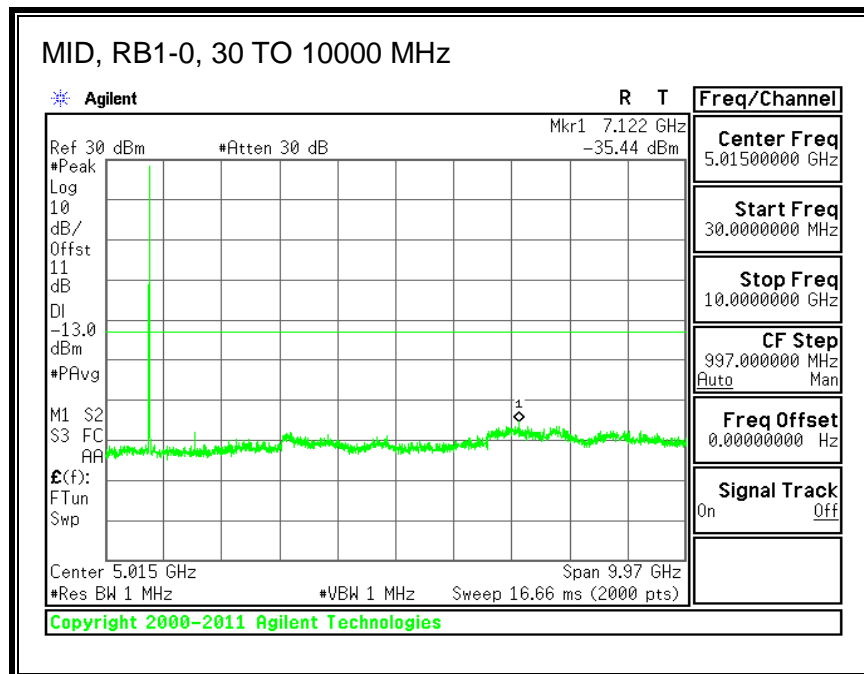
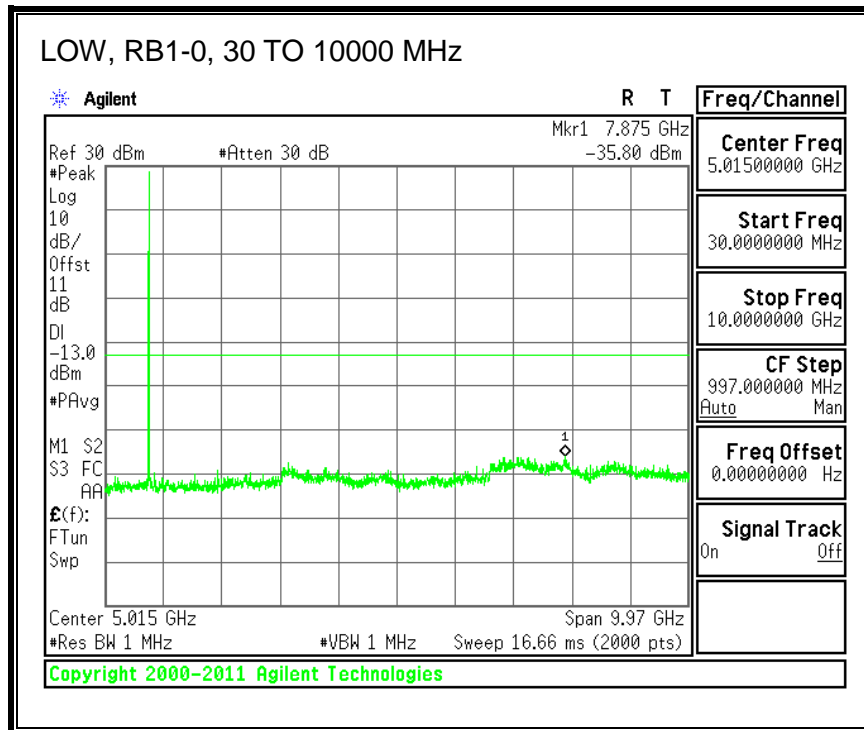
16QAM, (10.0 MHz BAND WIDTH)

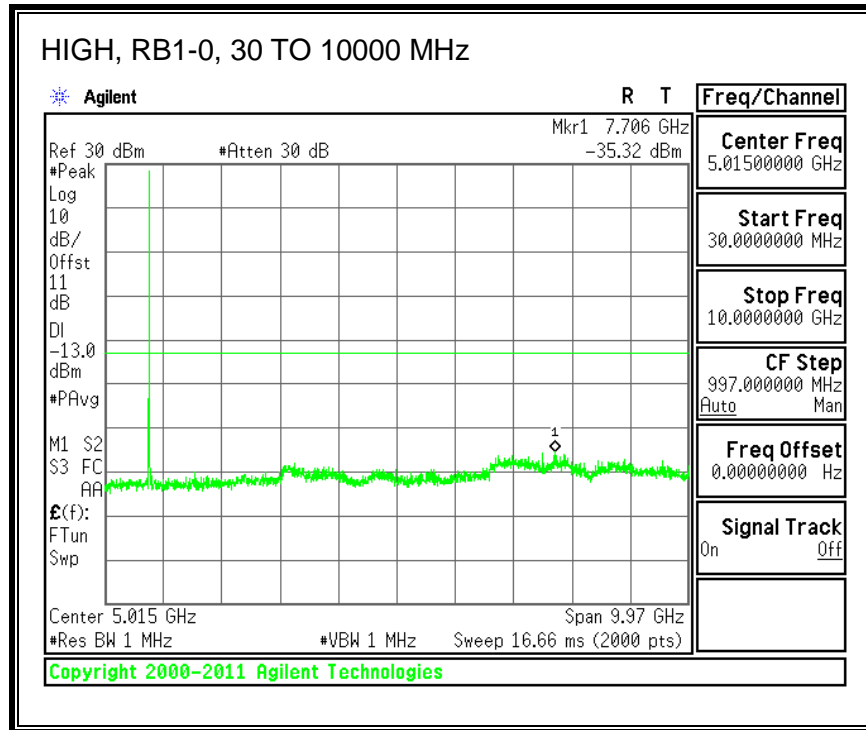




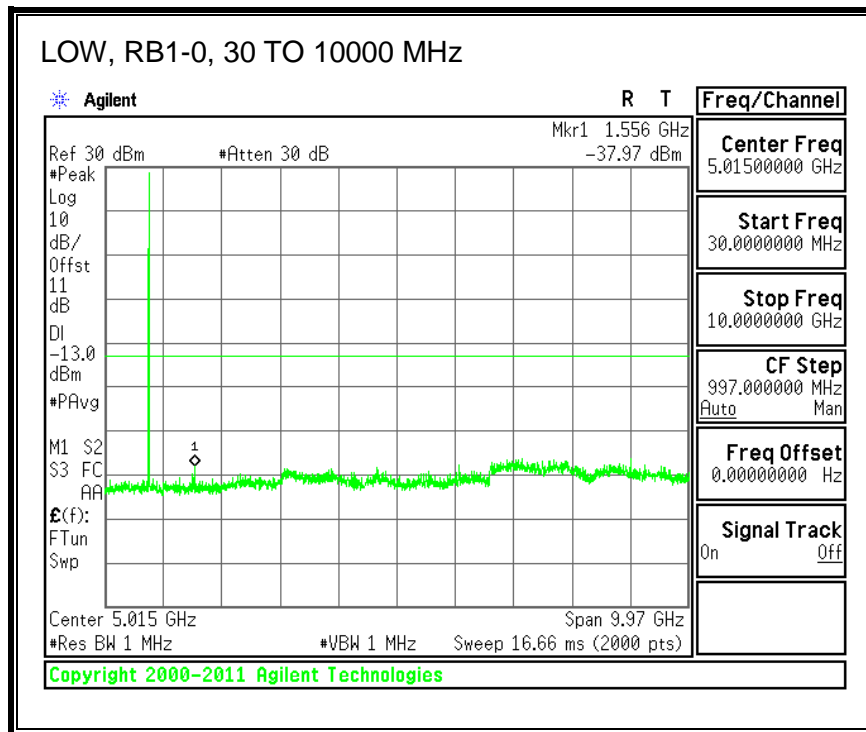
8.3.5. LTE BAND 13

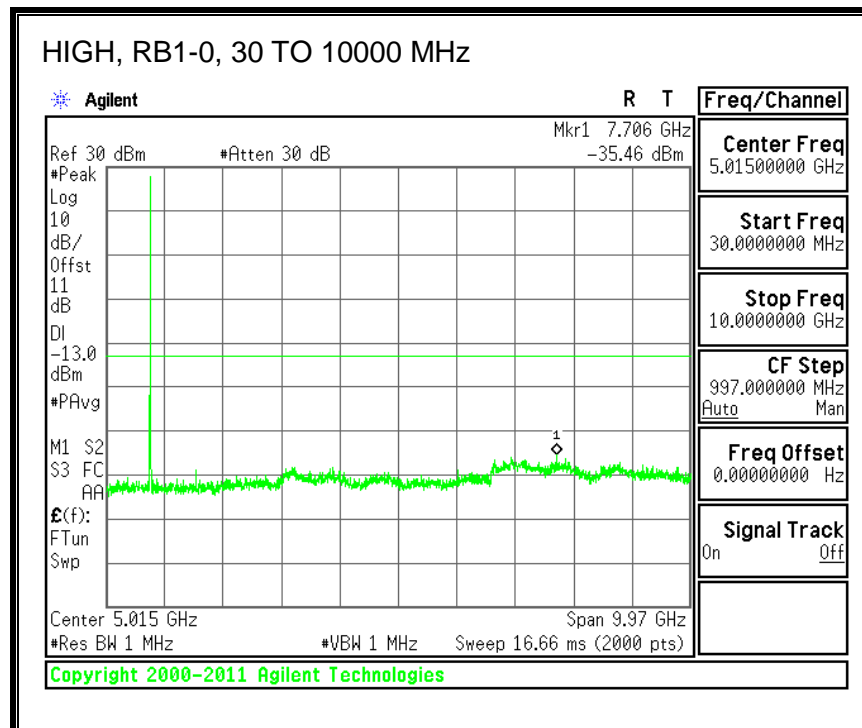
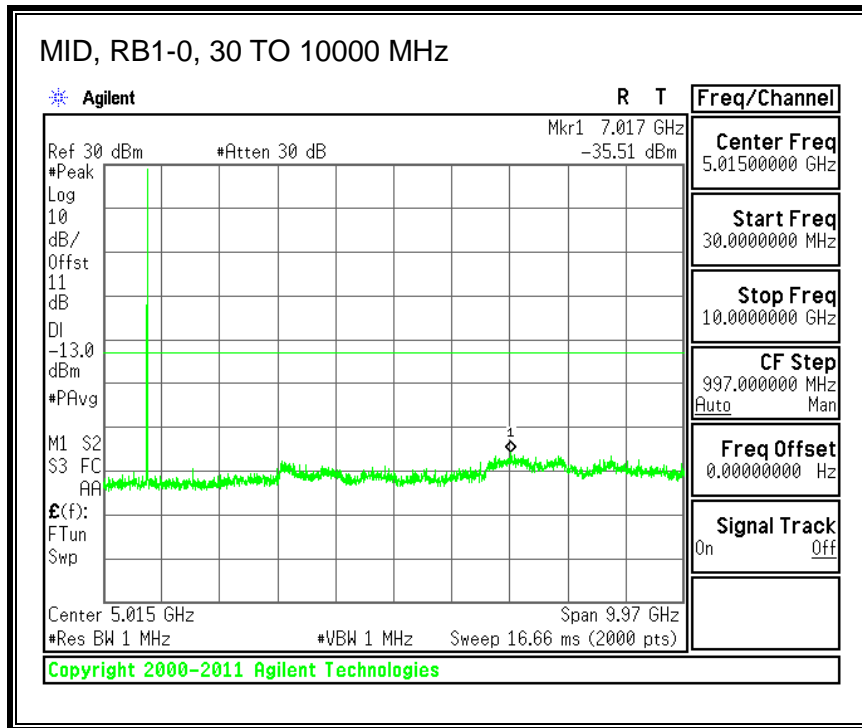
QPSK, (5.0 MHz BAND WIDTH)



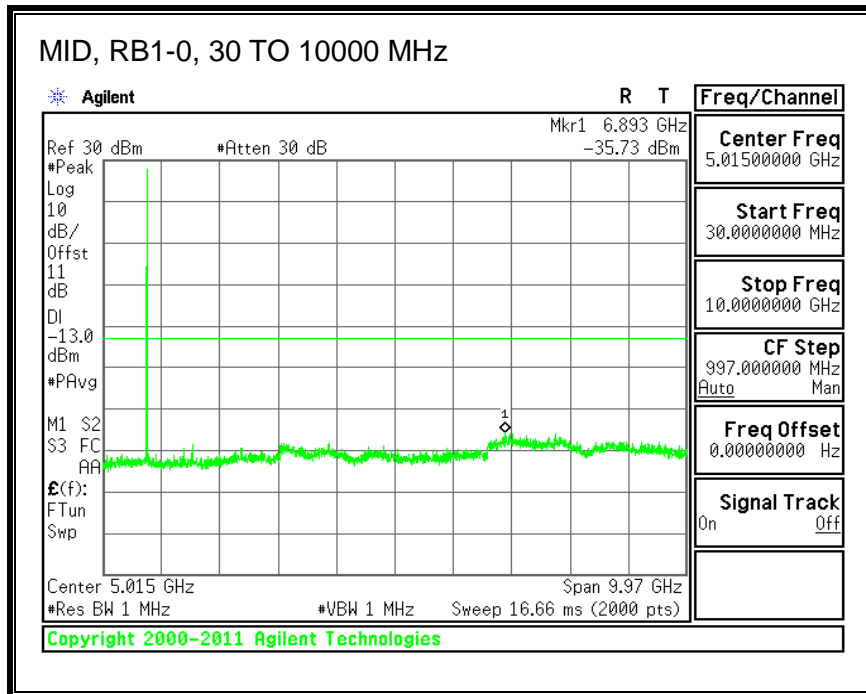


16QAM, (5.0 MHz BAND WIDTH)

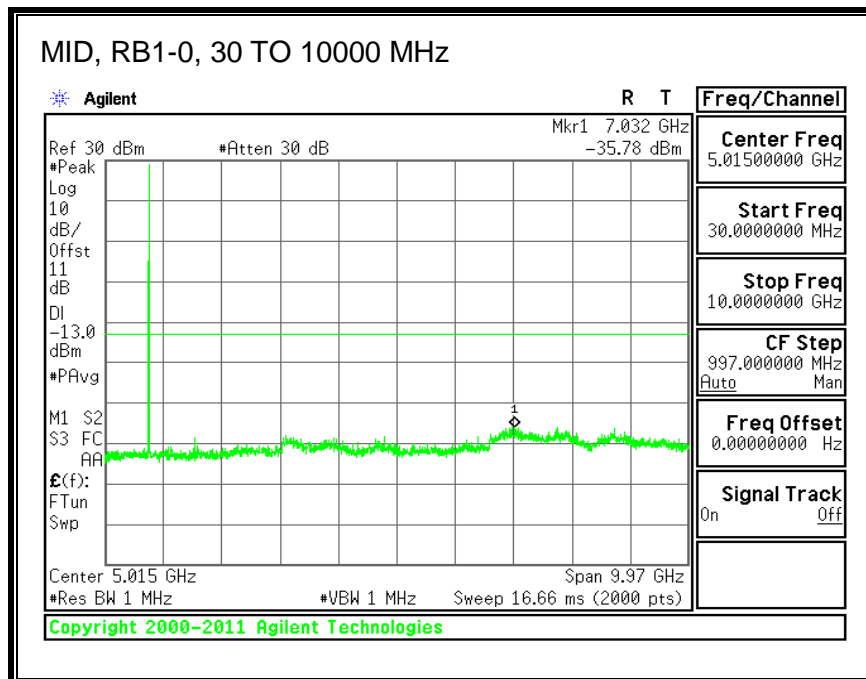




QPSK, (10.0 MHz BAND WIDTH)

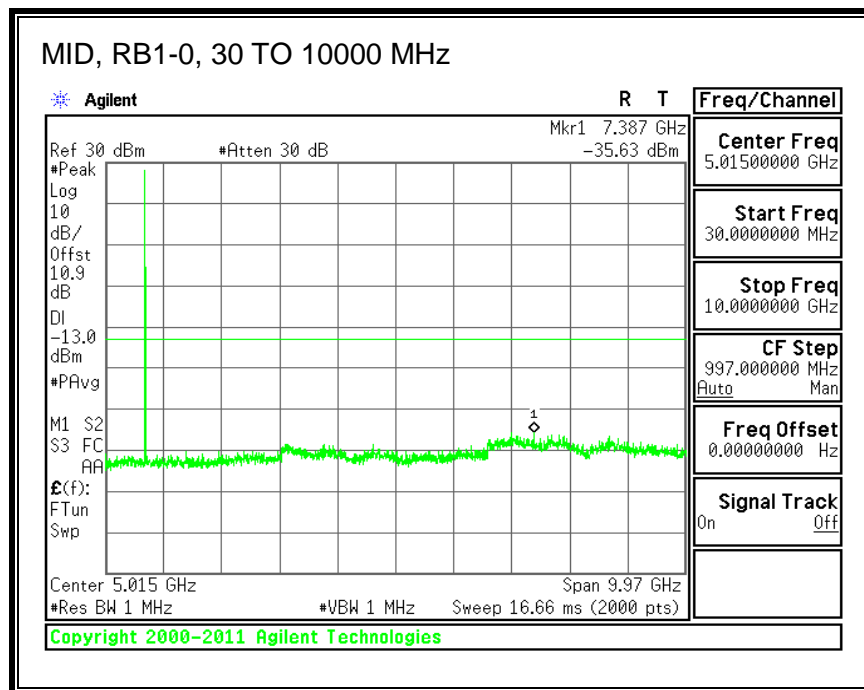
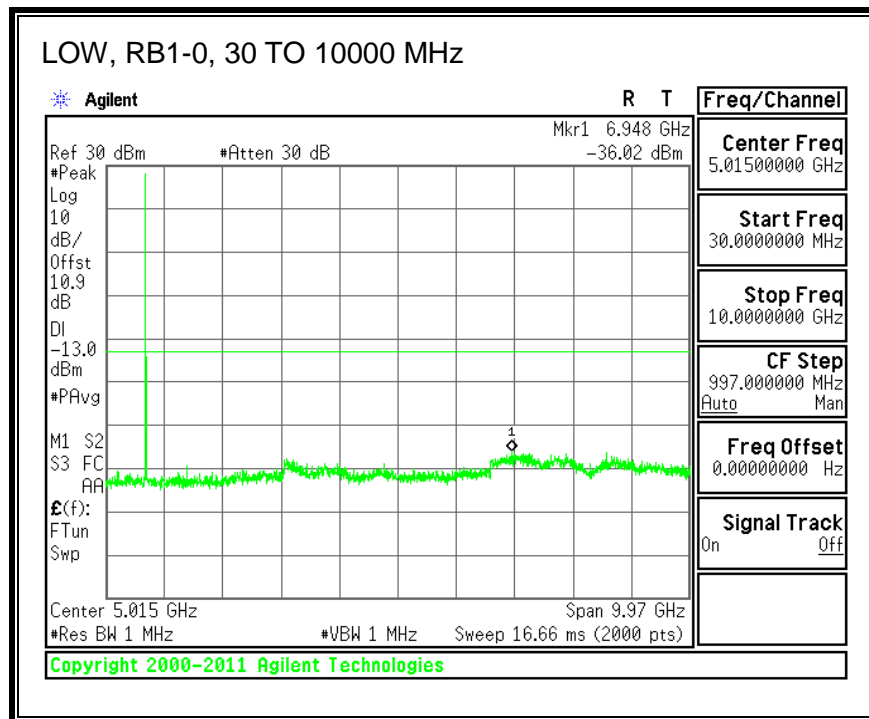


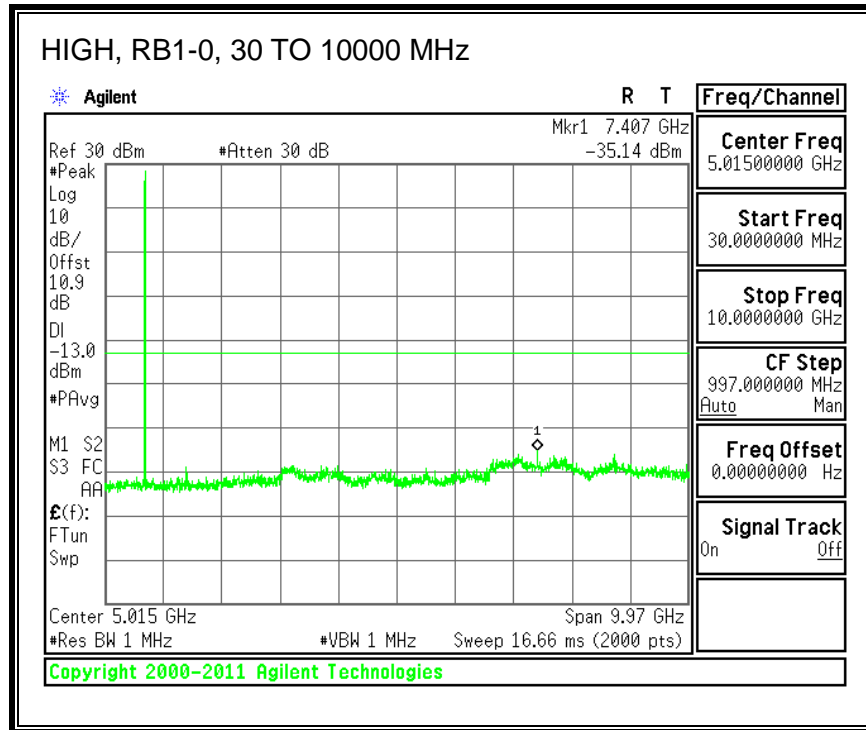
16QAM, (10.0 MHz BAND WIDTH)



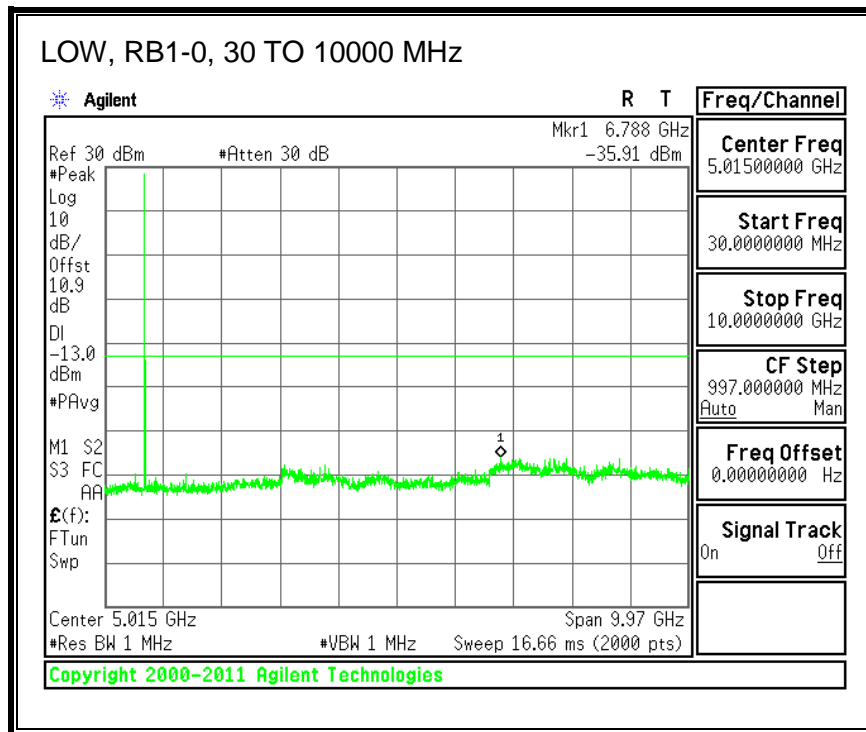
8.3.6. LTE BAND 17

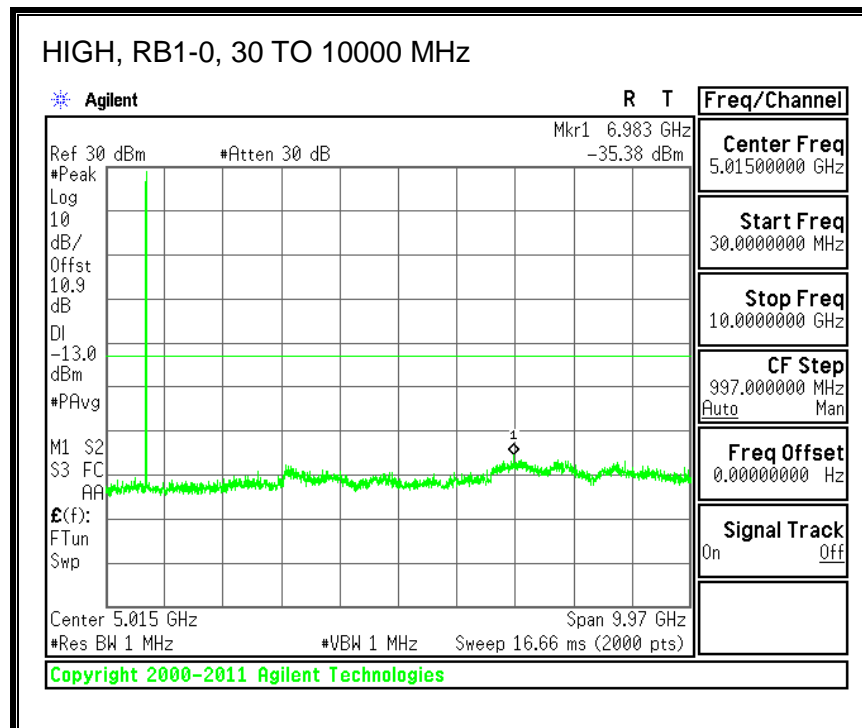
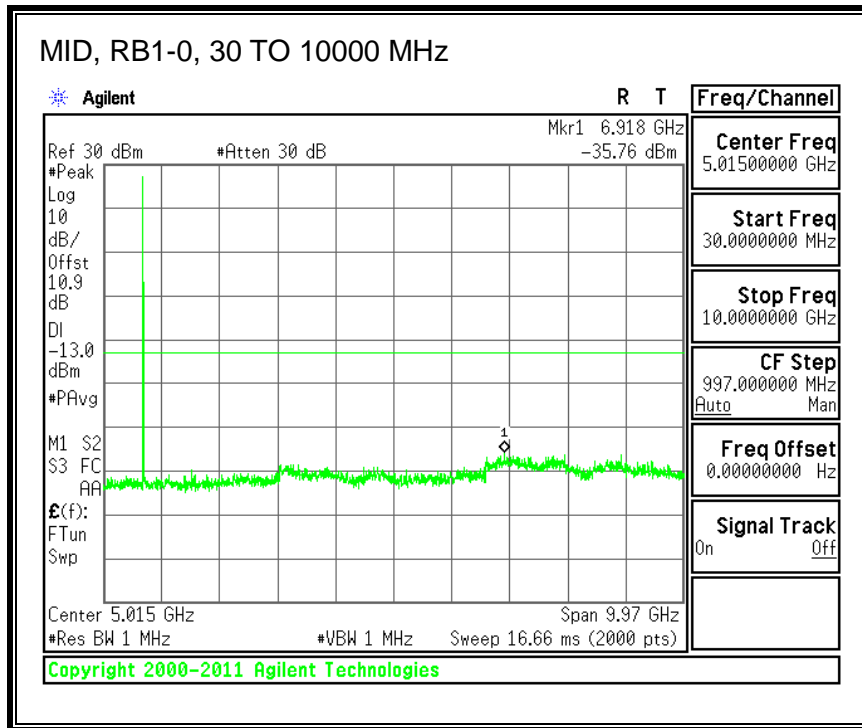
QPSK, (5.0 MHz BAND WIDTH)



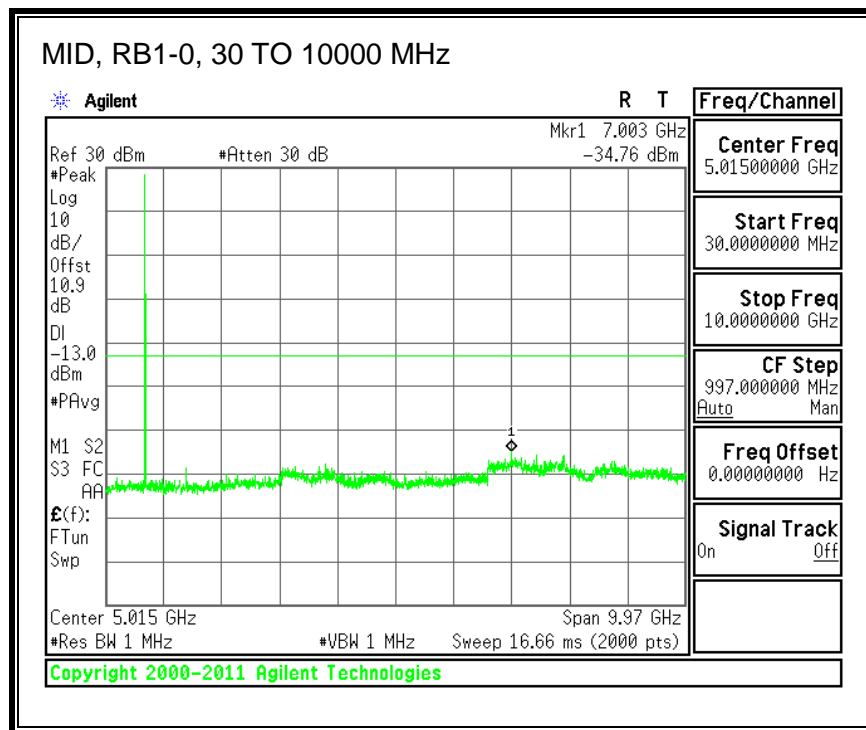
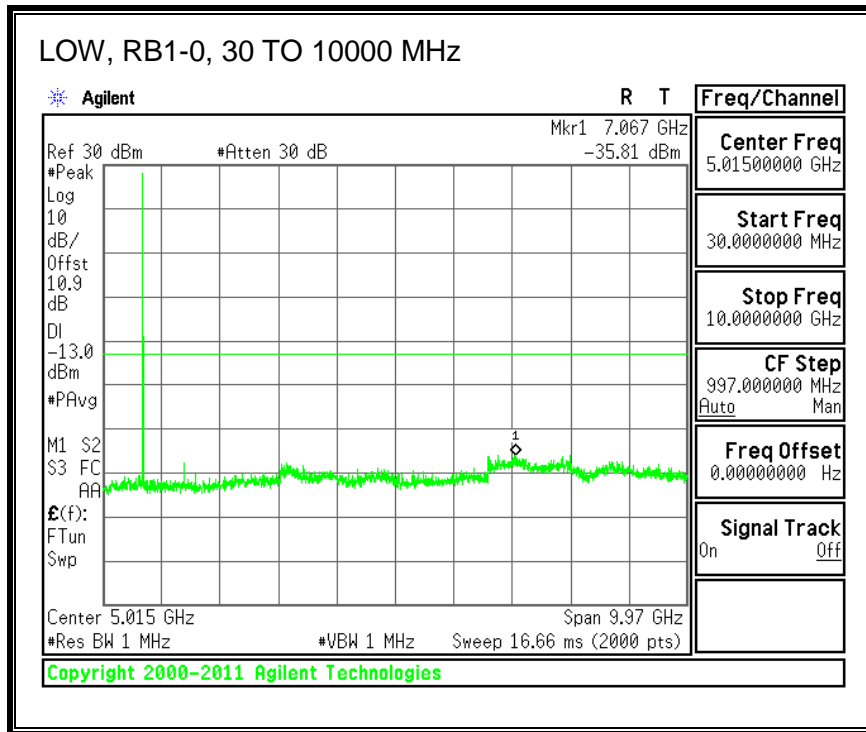


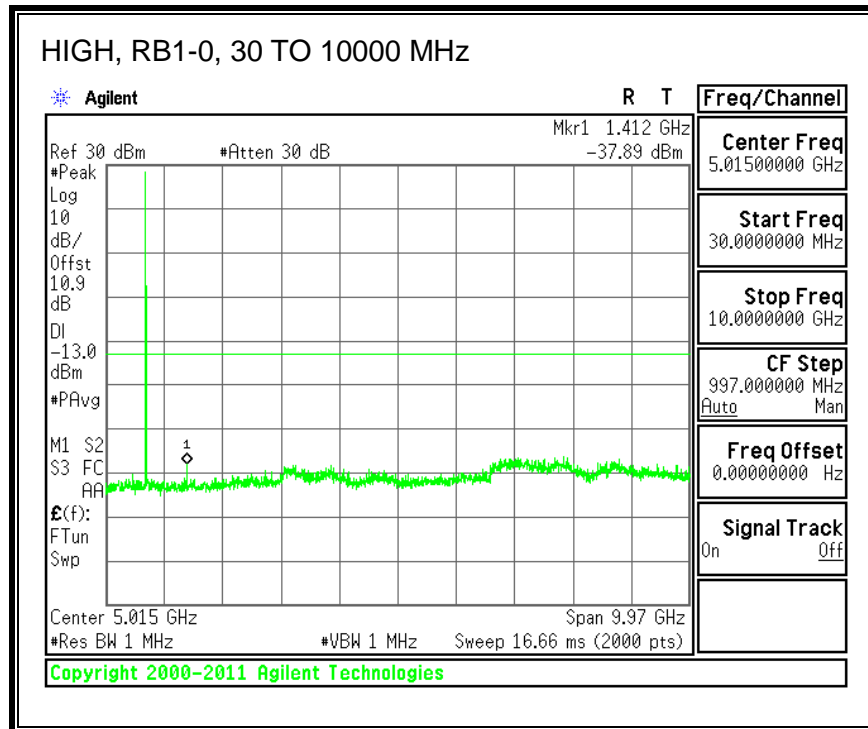
16QAM, (5.0 MHz BAND WIDTH)



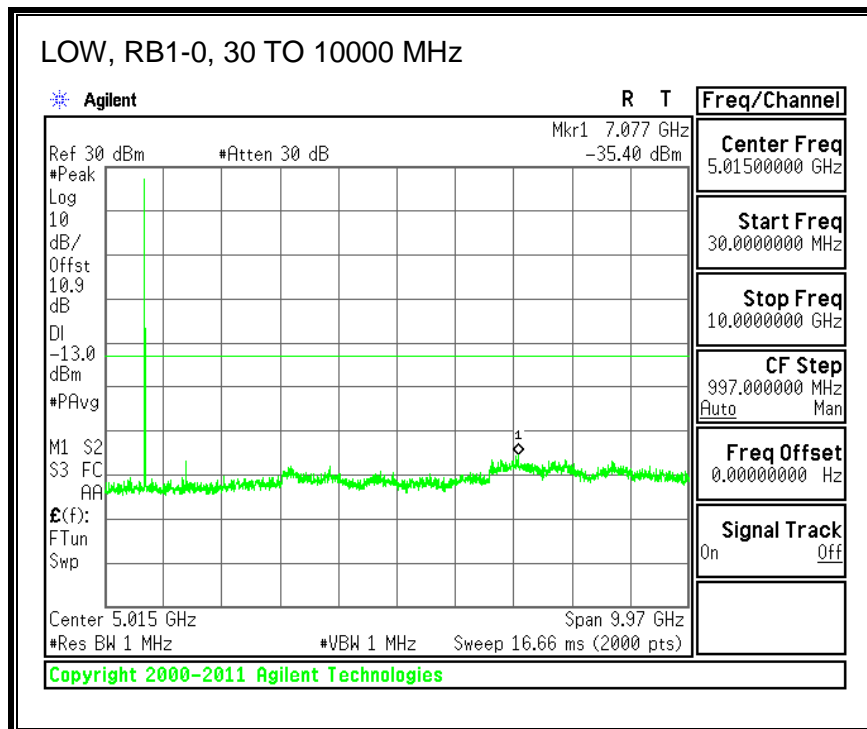


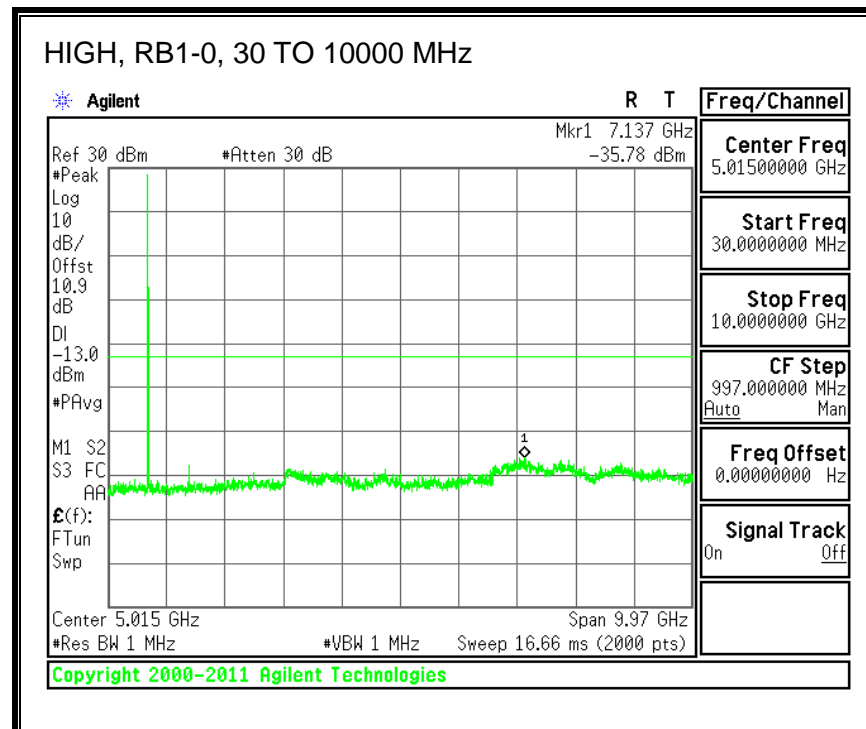
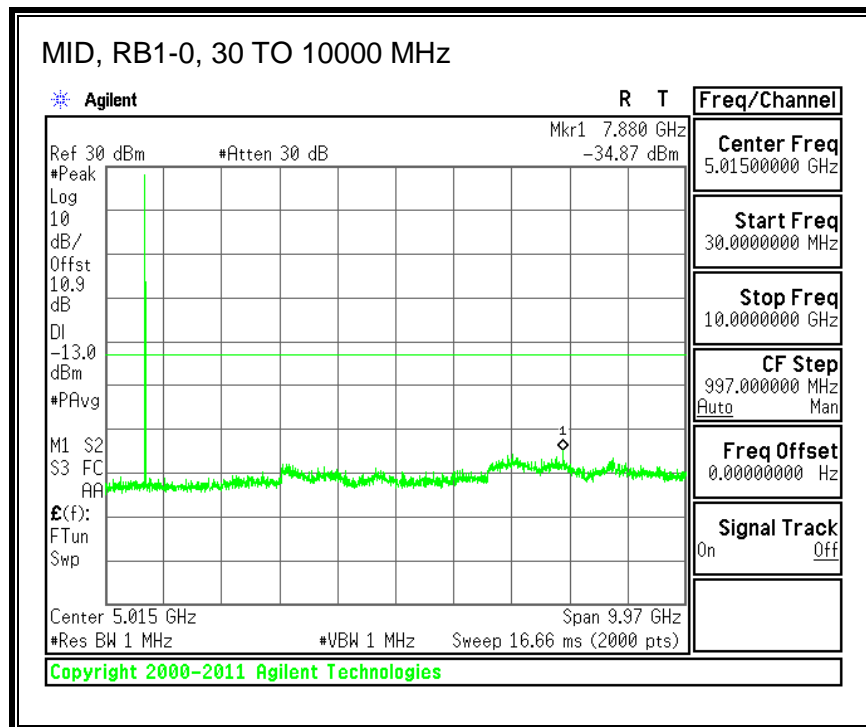
QPSK, (10.0 MHz BAND WIDTH)





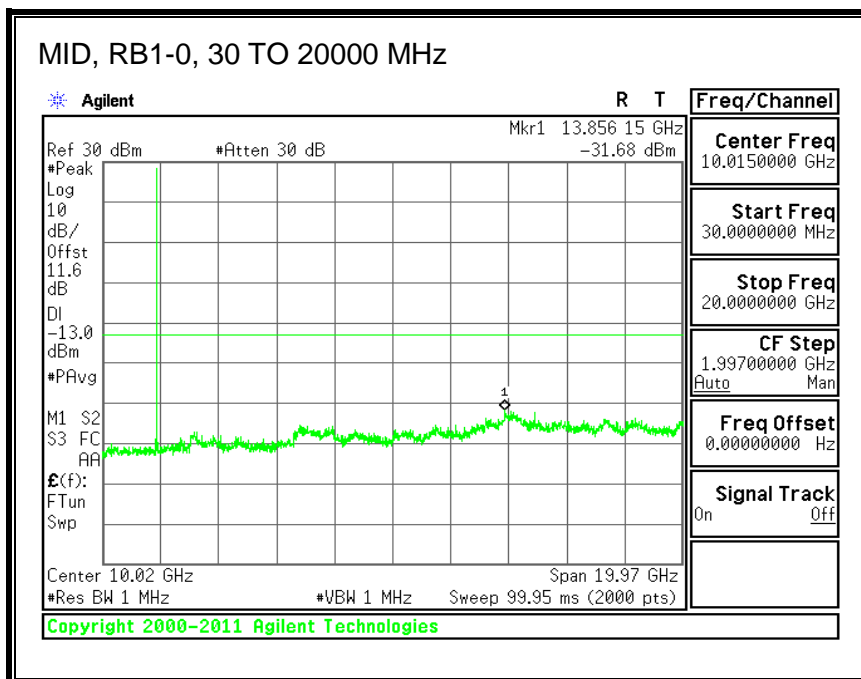
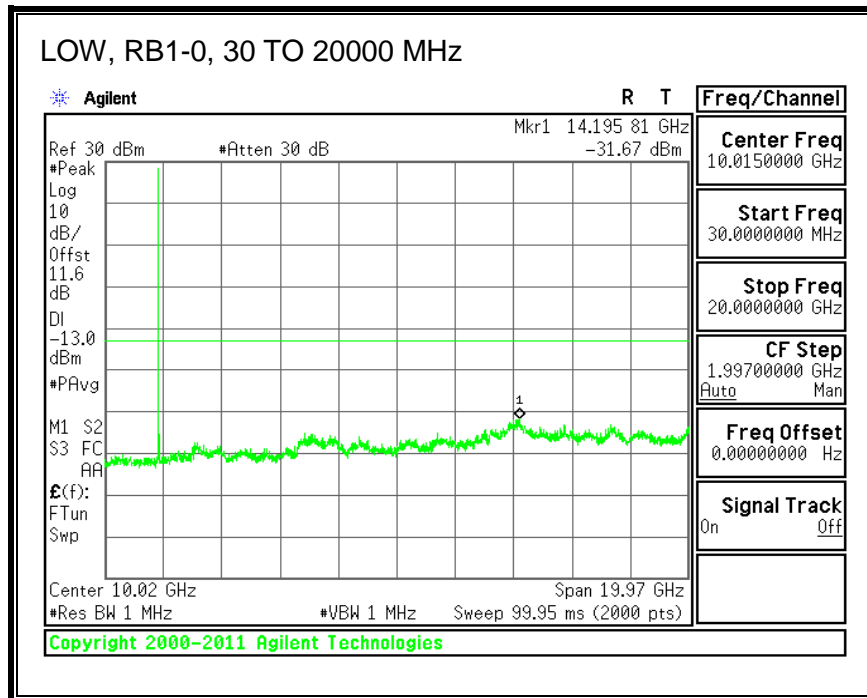
16QAM, (10.0 MHz BAND WIDTH)

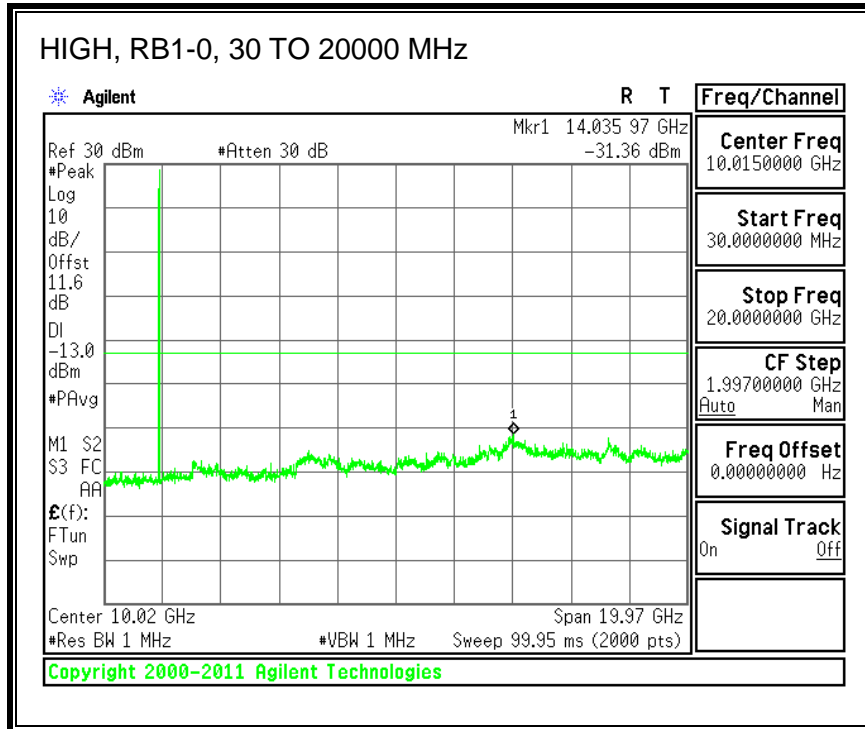




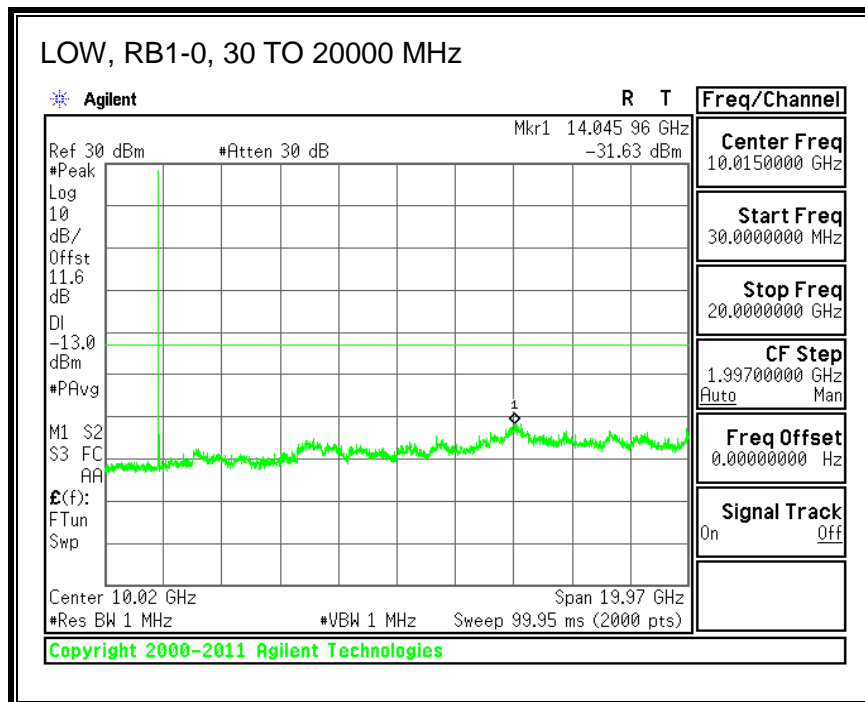
8.3.7. LTE BAND 25

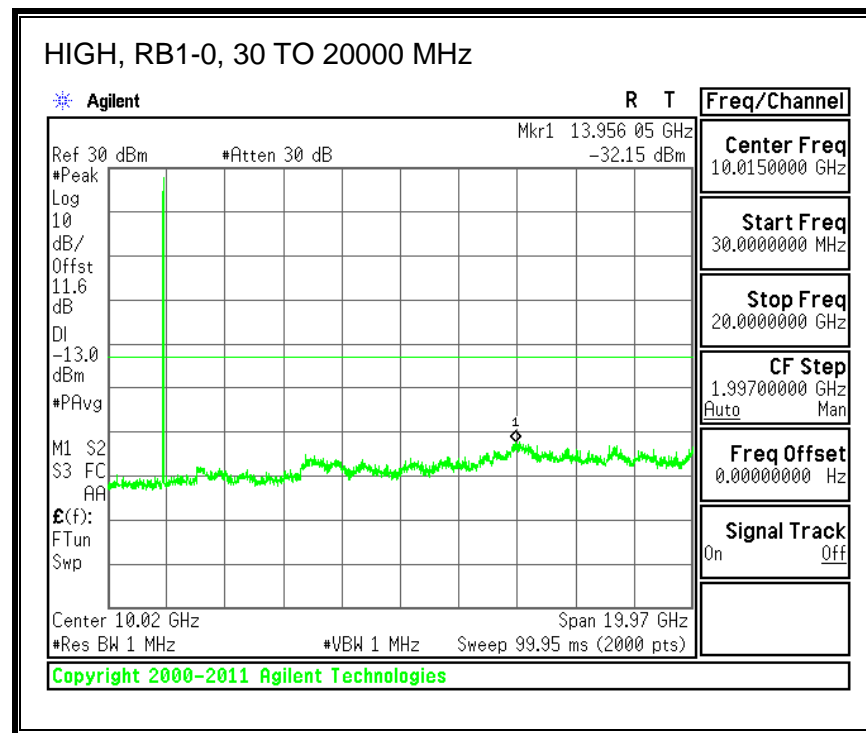
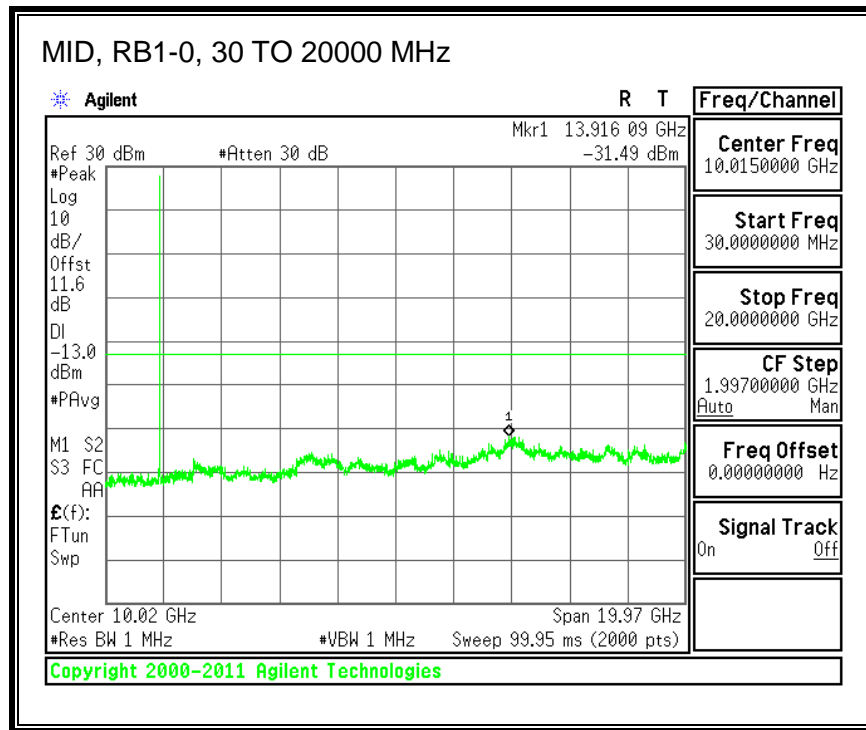
QPSK, (1.4 MHz BAND WIDTH)



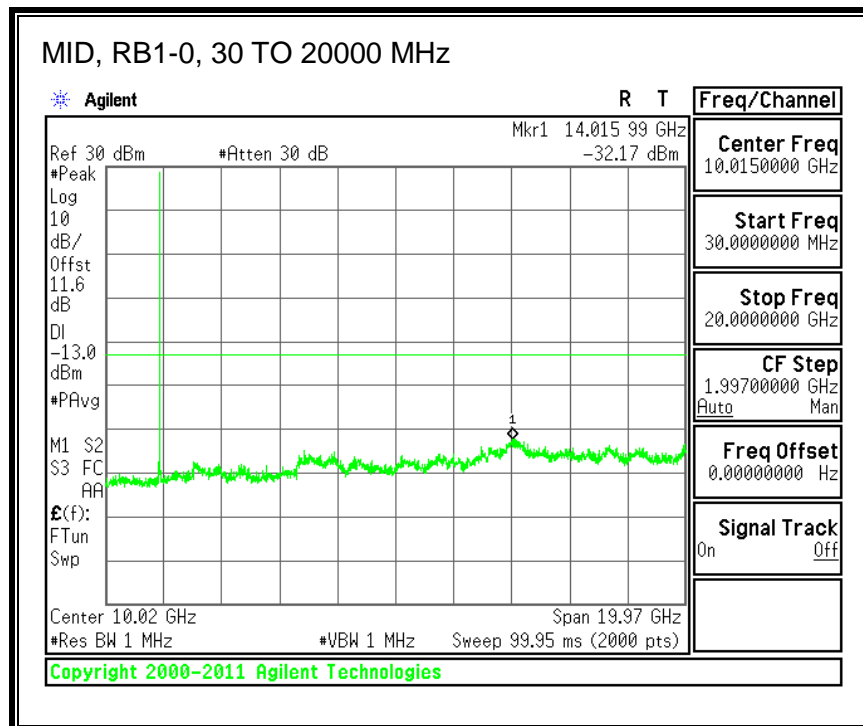
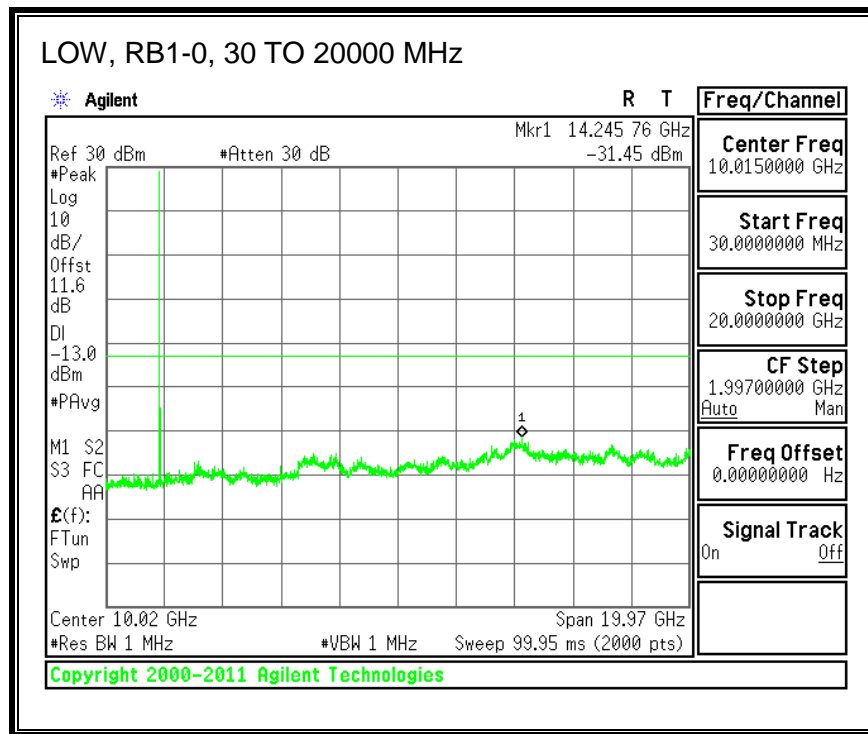


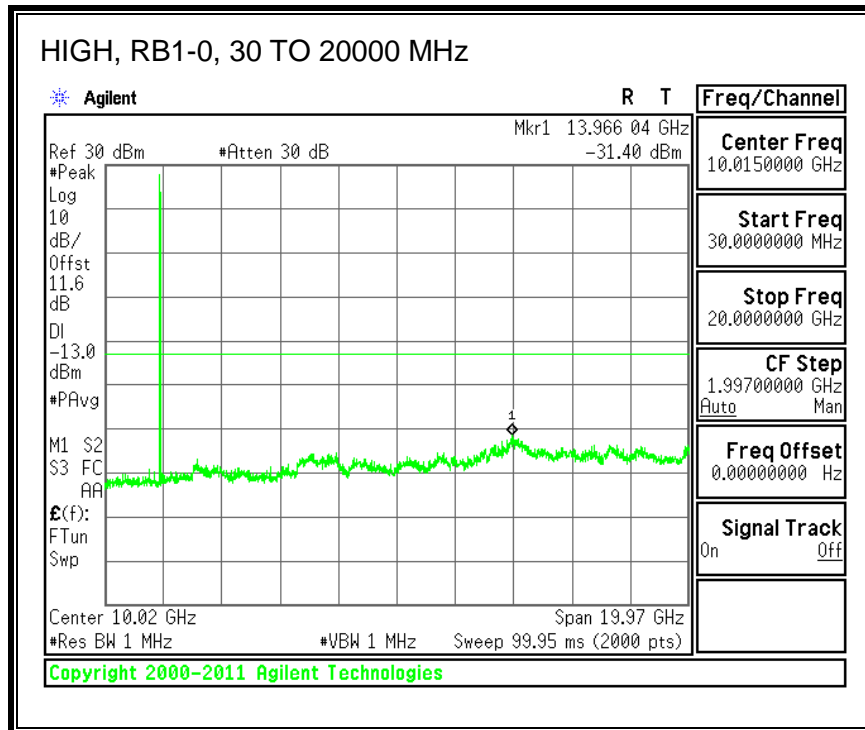
16QAM, (1.4 MHz BAND WIDTH)



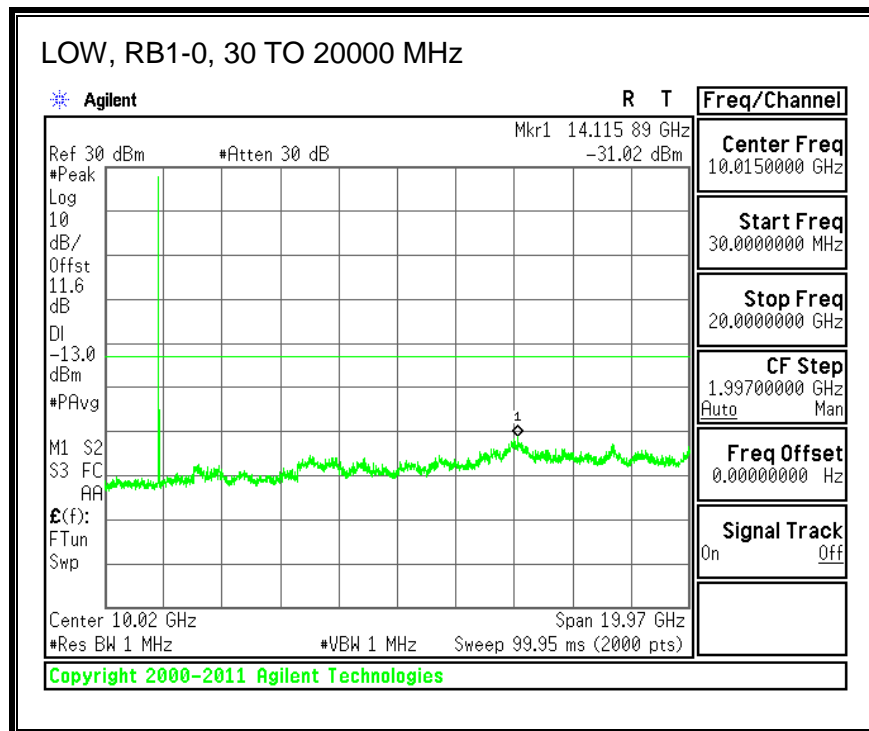


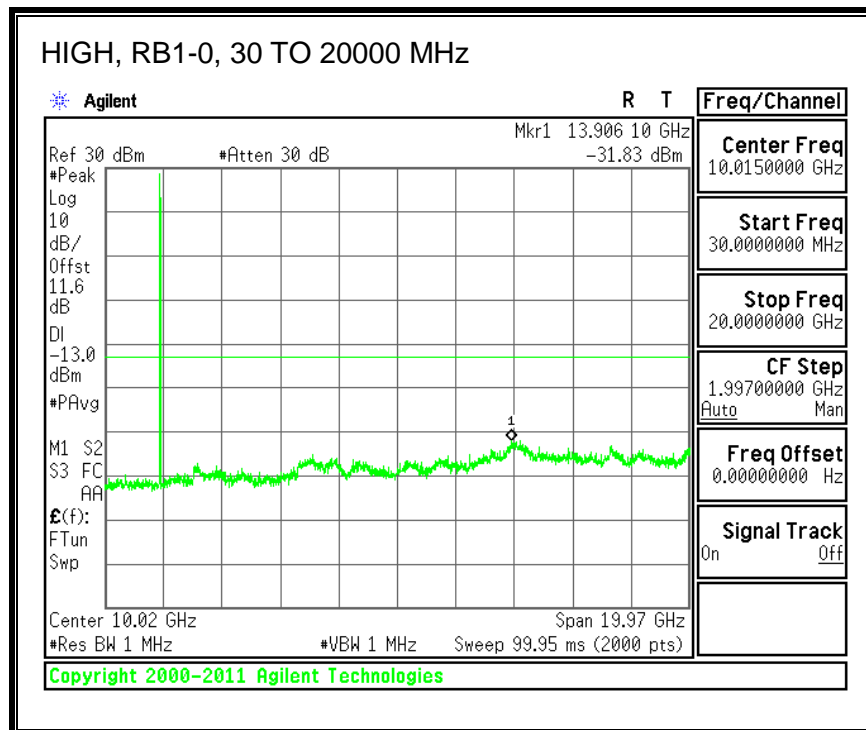
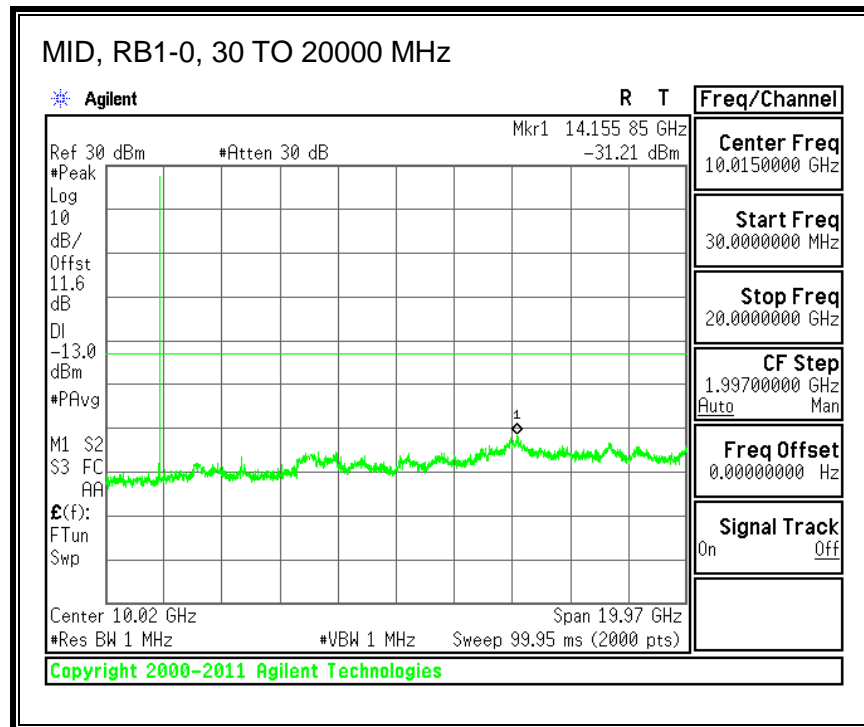
QPSK, (3.0 MHz BAND WIDTH)



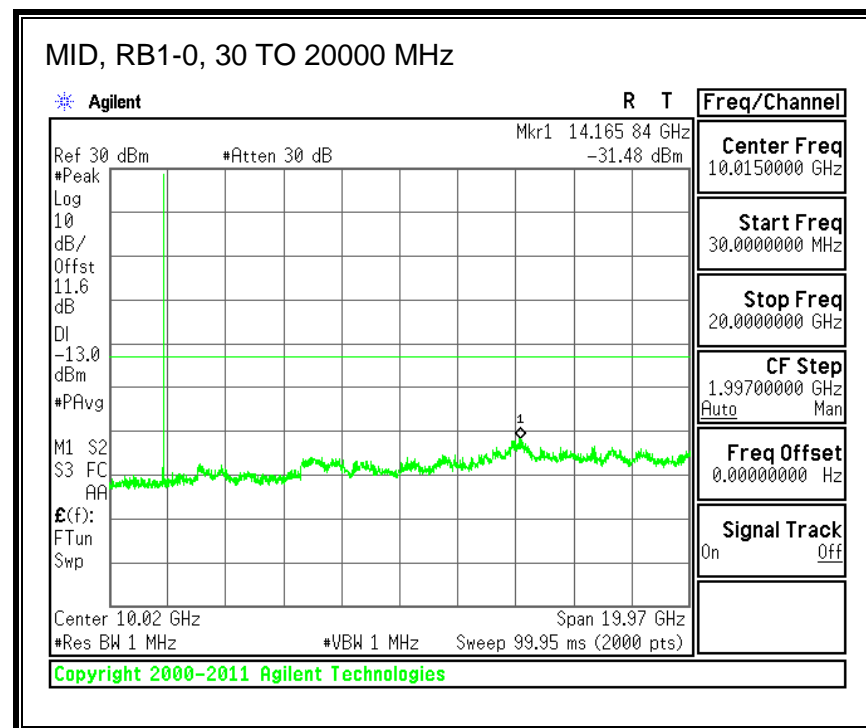
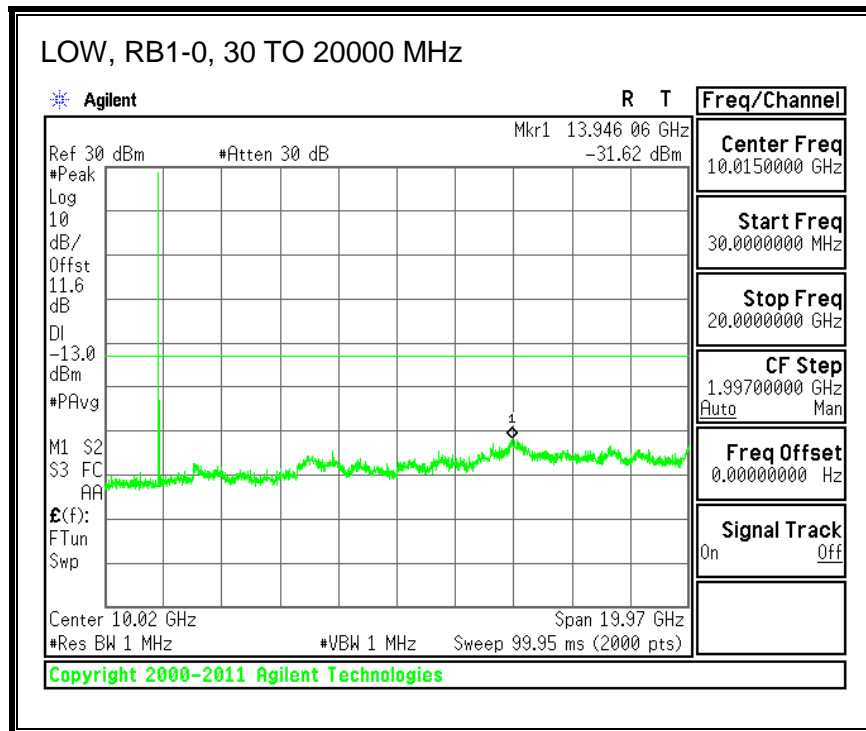


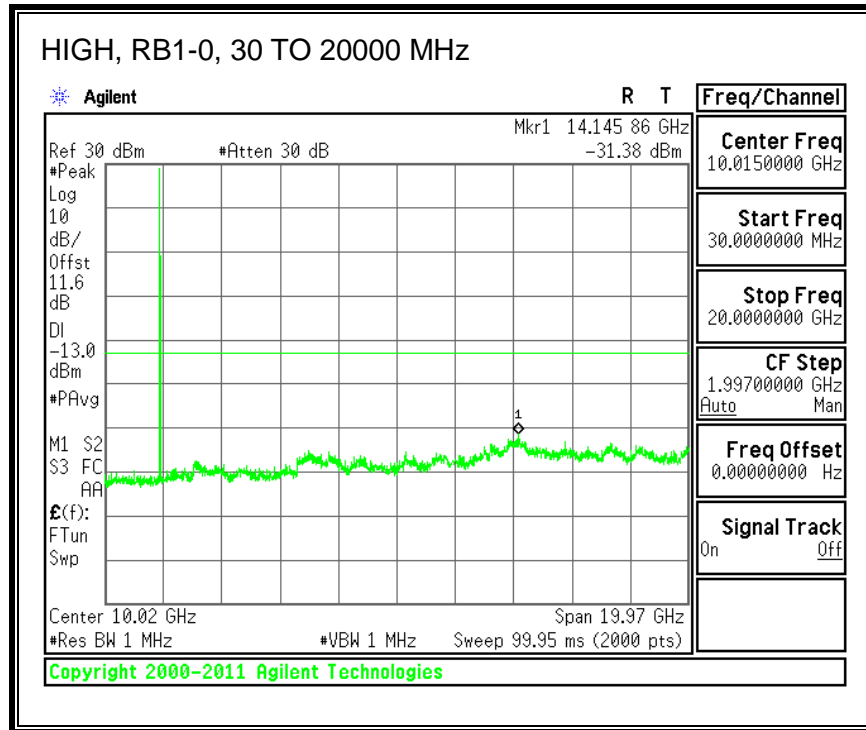
16QAM, (3.0 MHz BAND WIDTH)



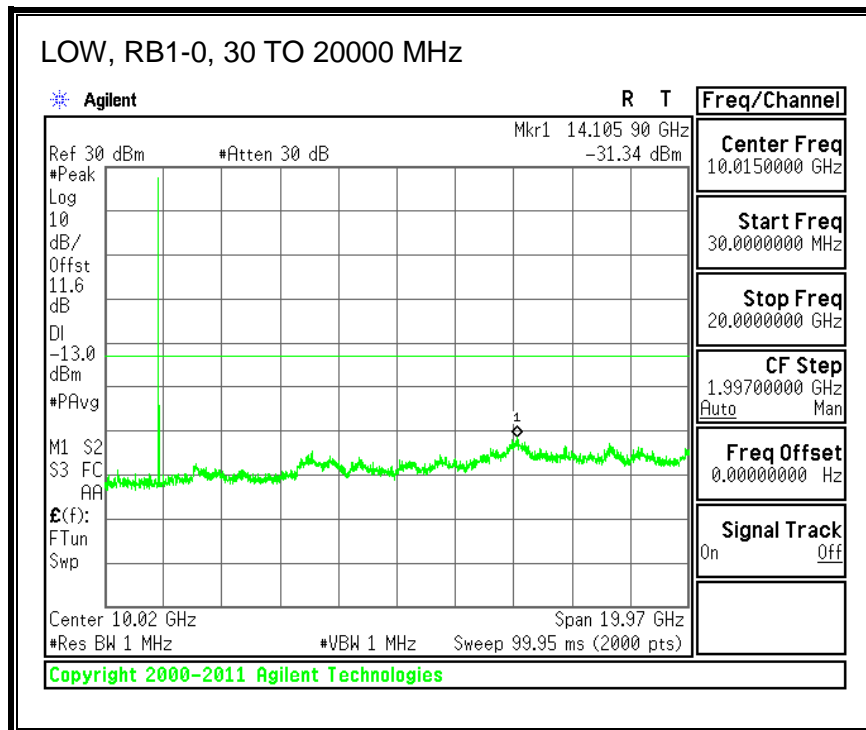


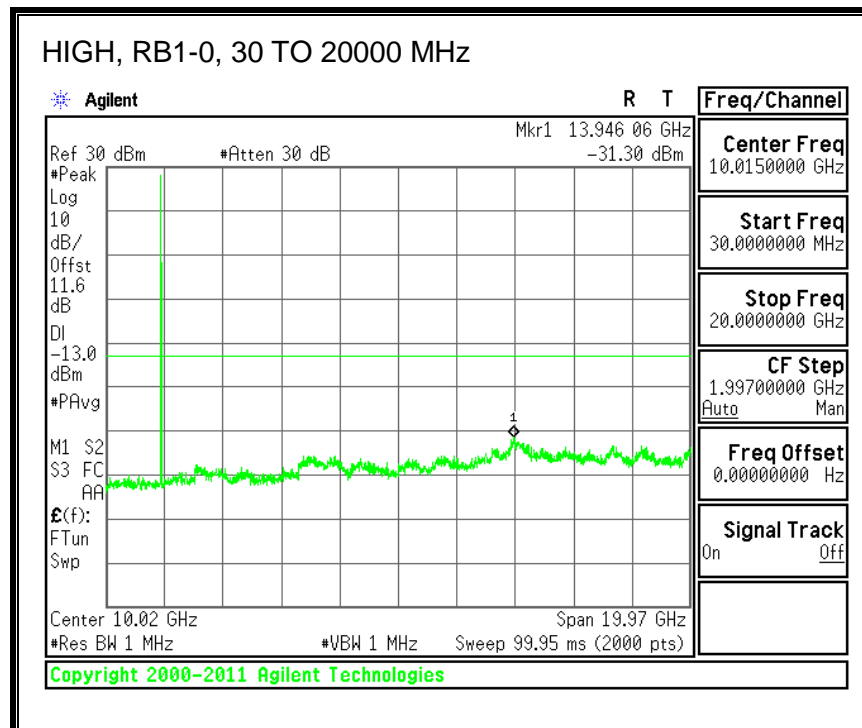
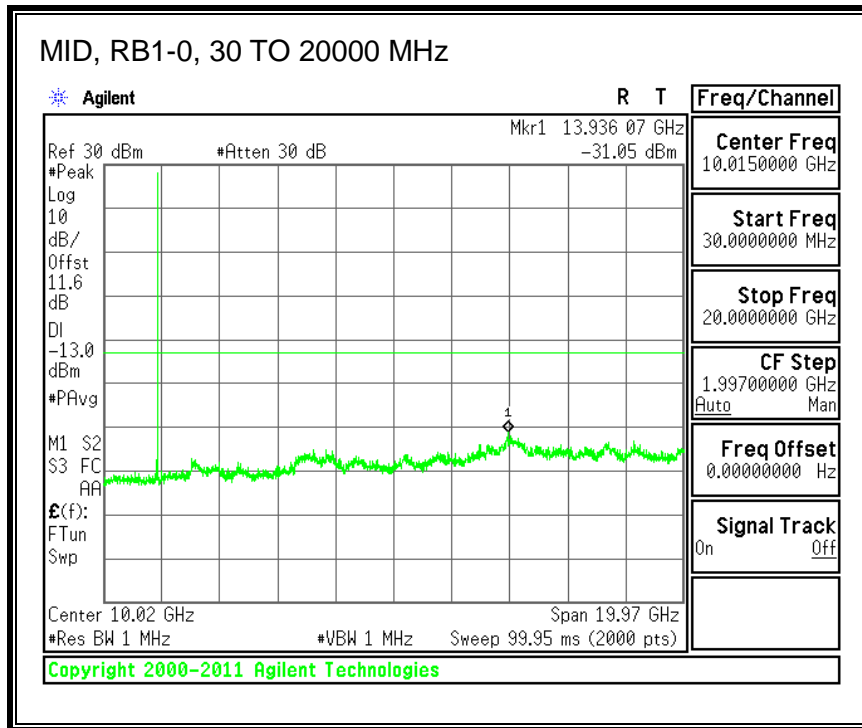
QPSK, (5.0 MHz BAND WIDTH)



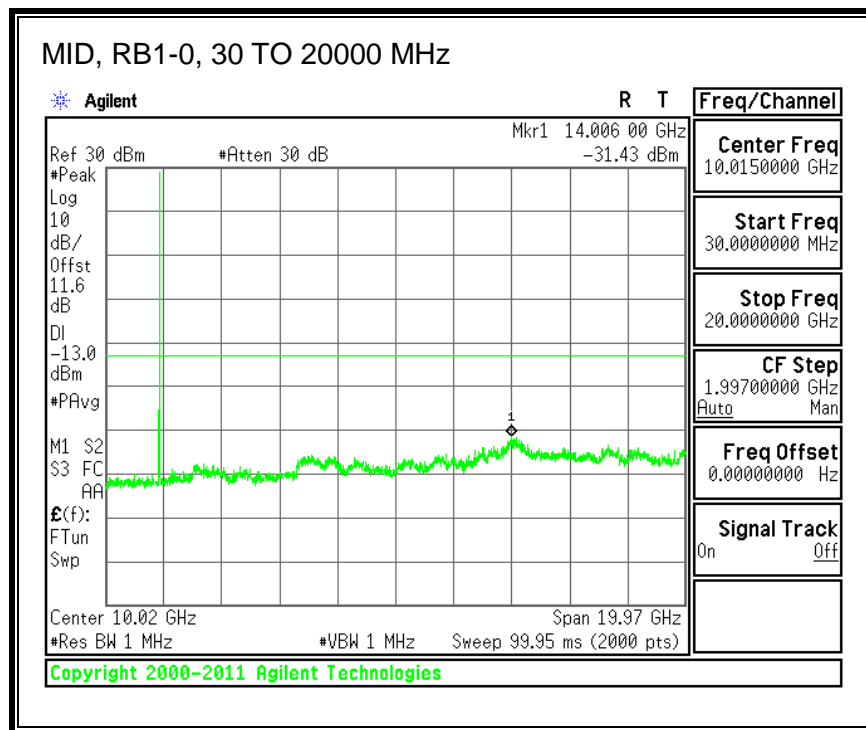
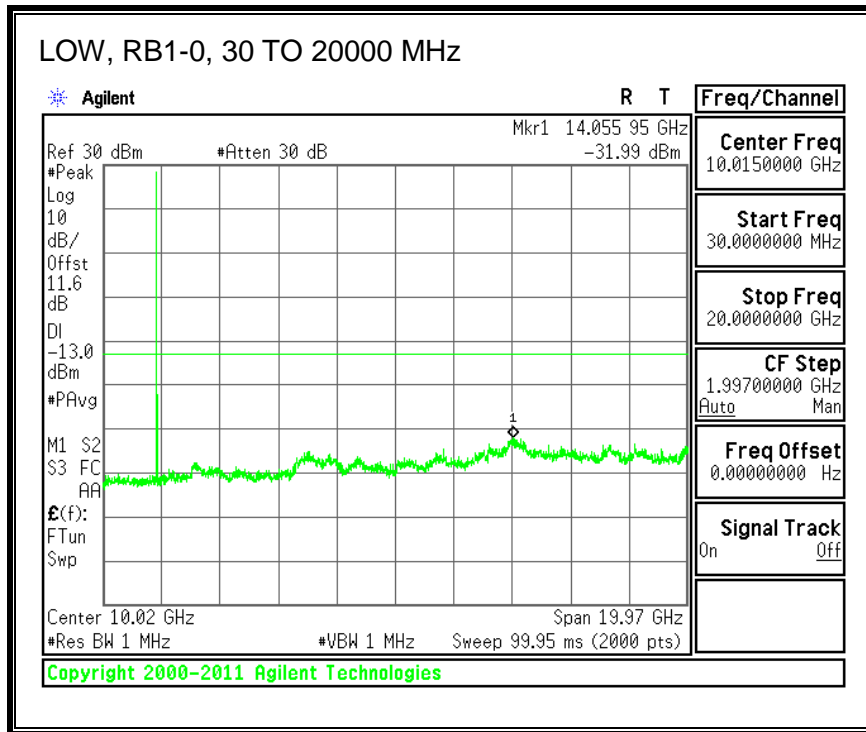


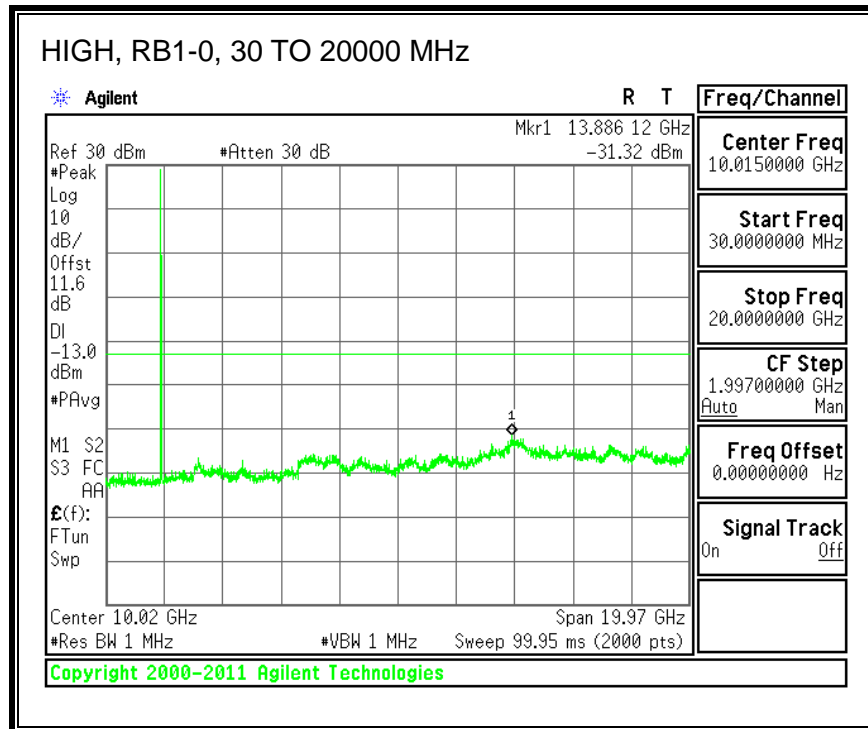
16QAM, (5.0 MHz BAND WIDTH)



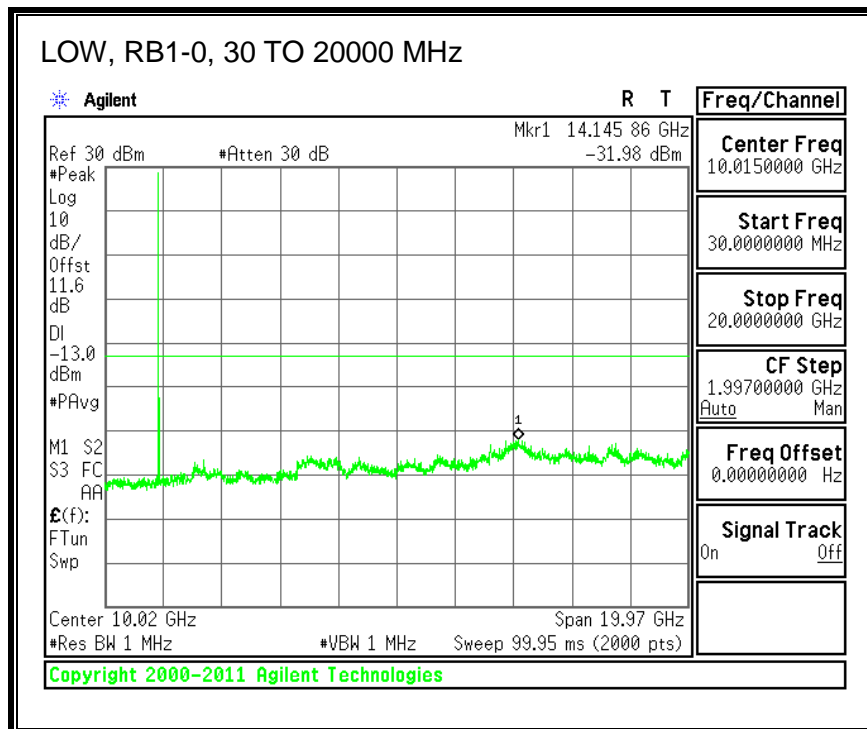


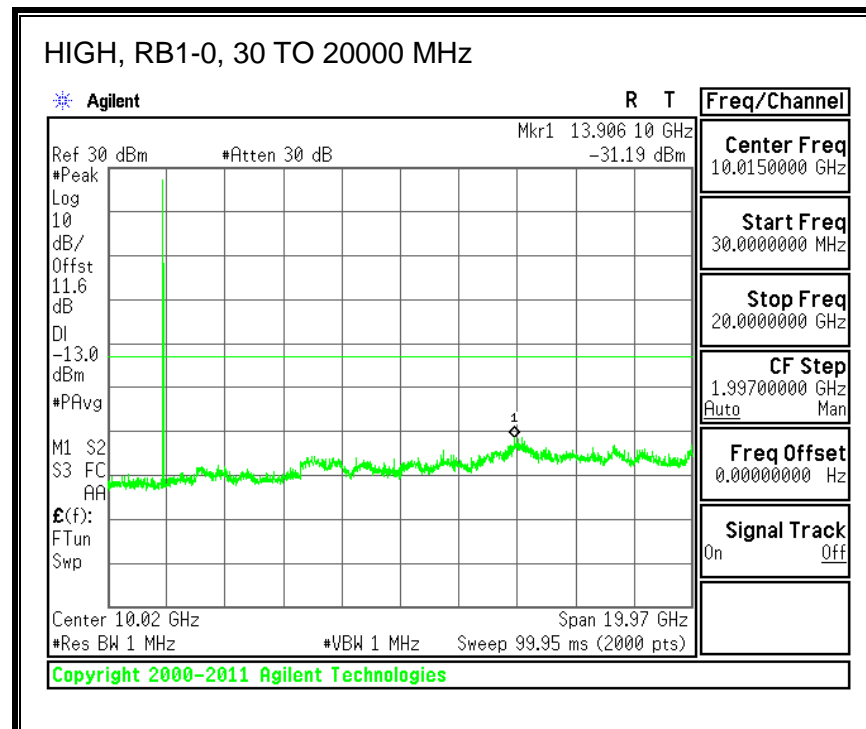
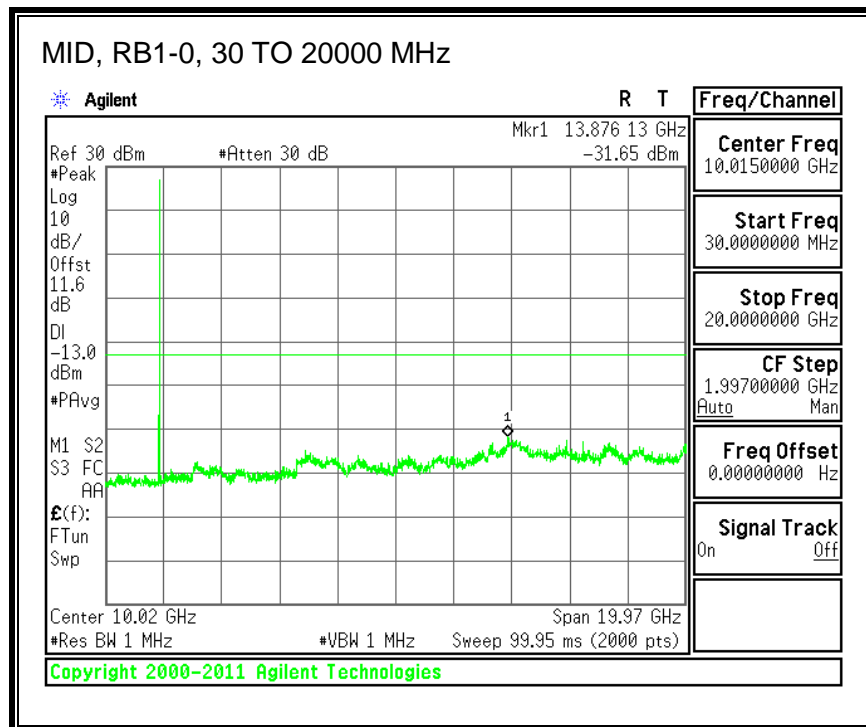
QPSK, (10.0 MHz BAND WIDTH)



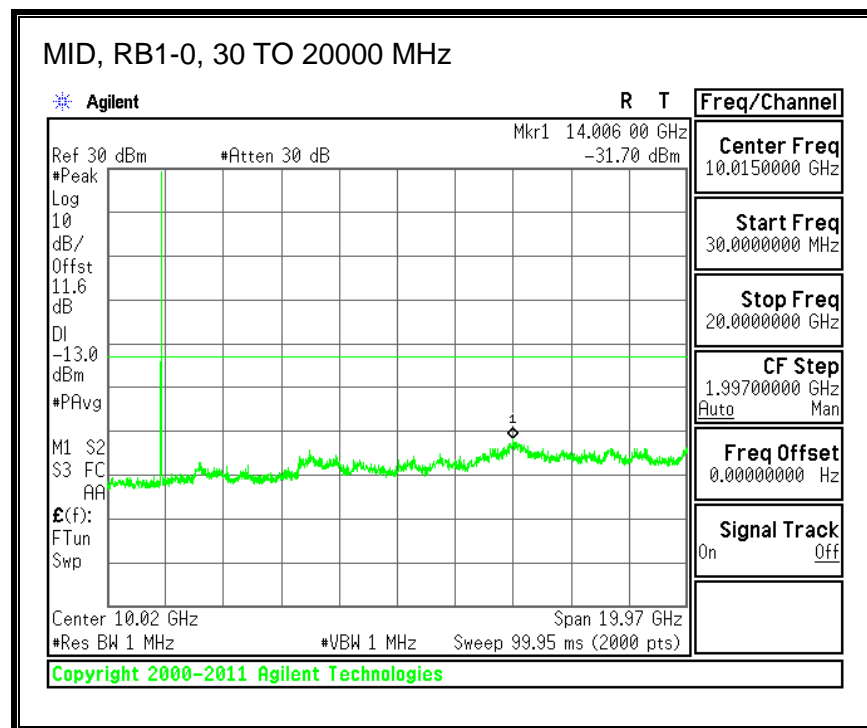
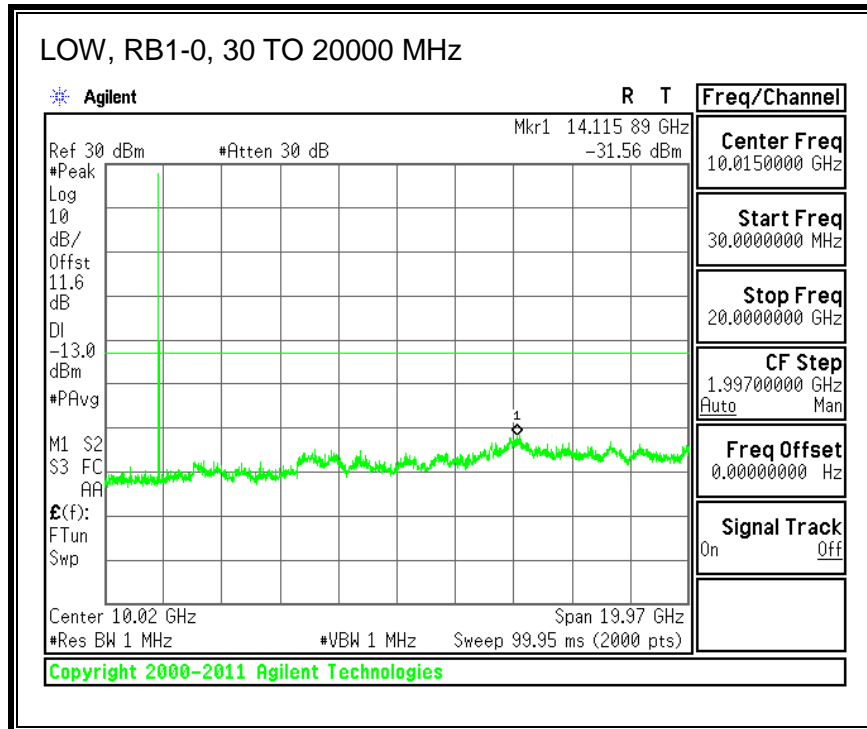


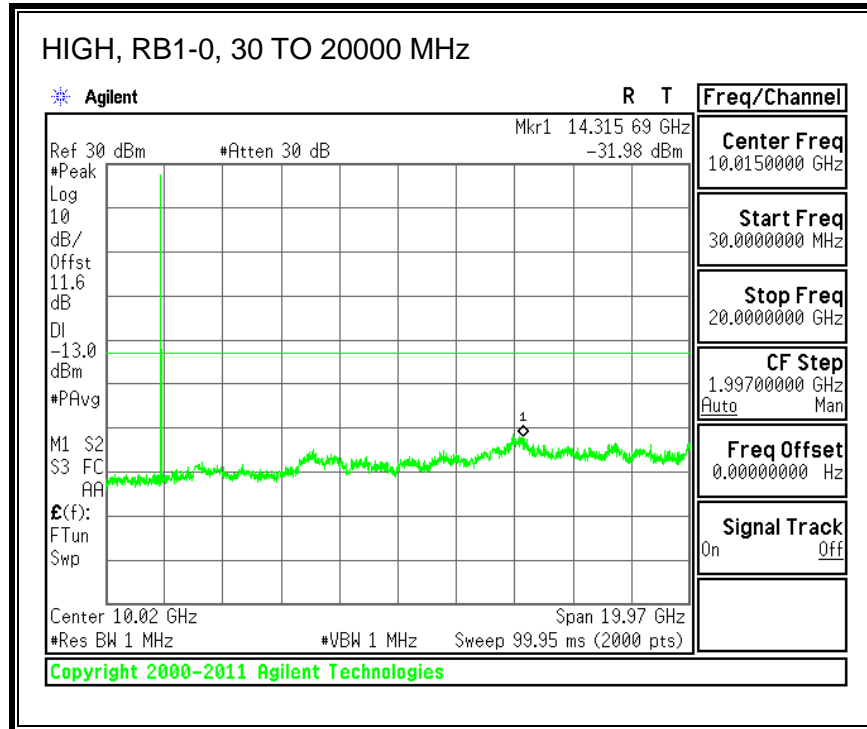
16QAM, (10.0 MHz BAND WIDTH)



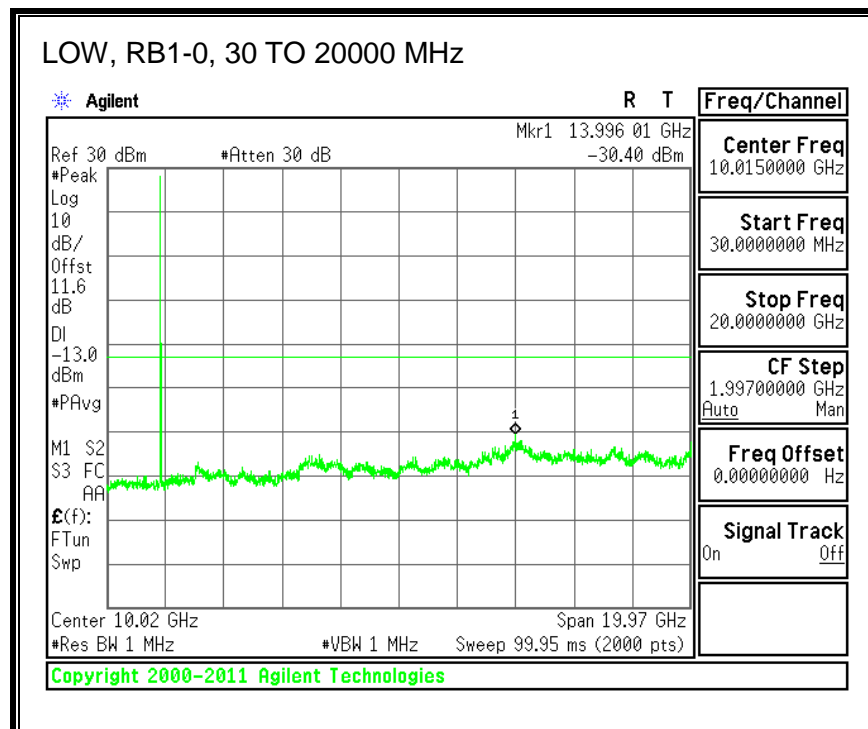


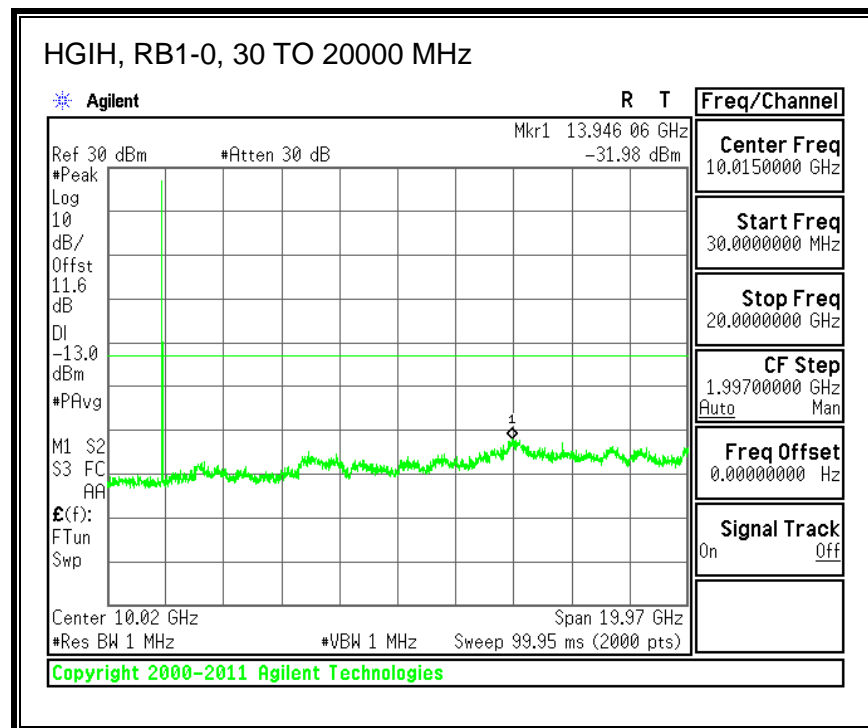
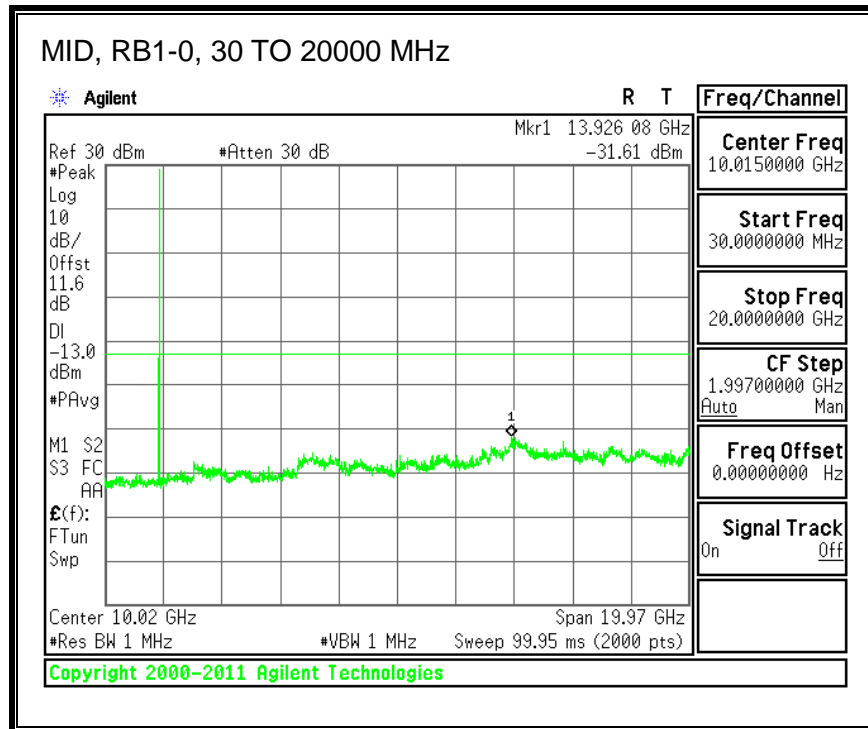
QPSK, (15.0 MHz BAND WIDTH)



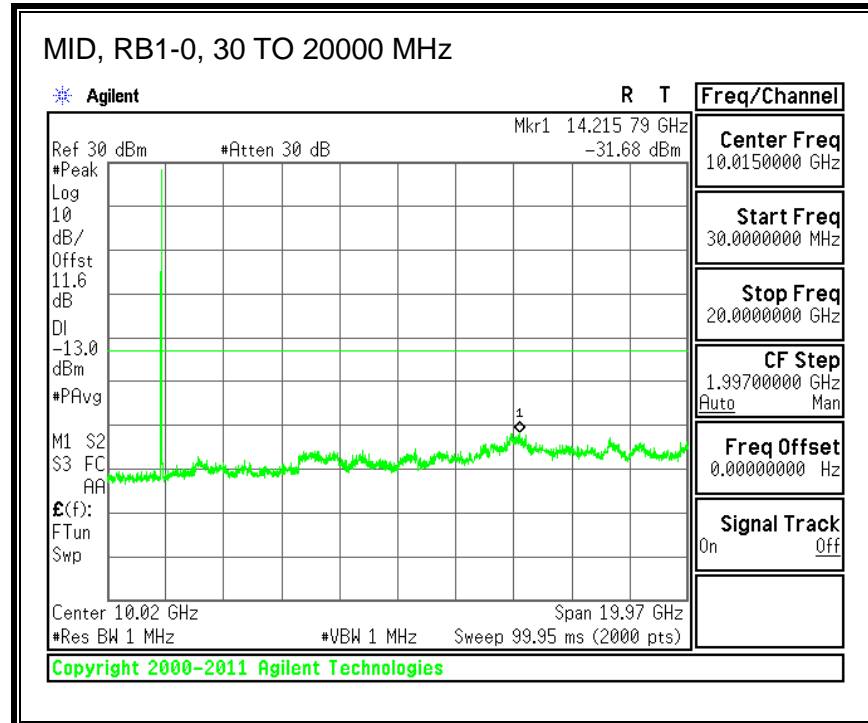
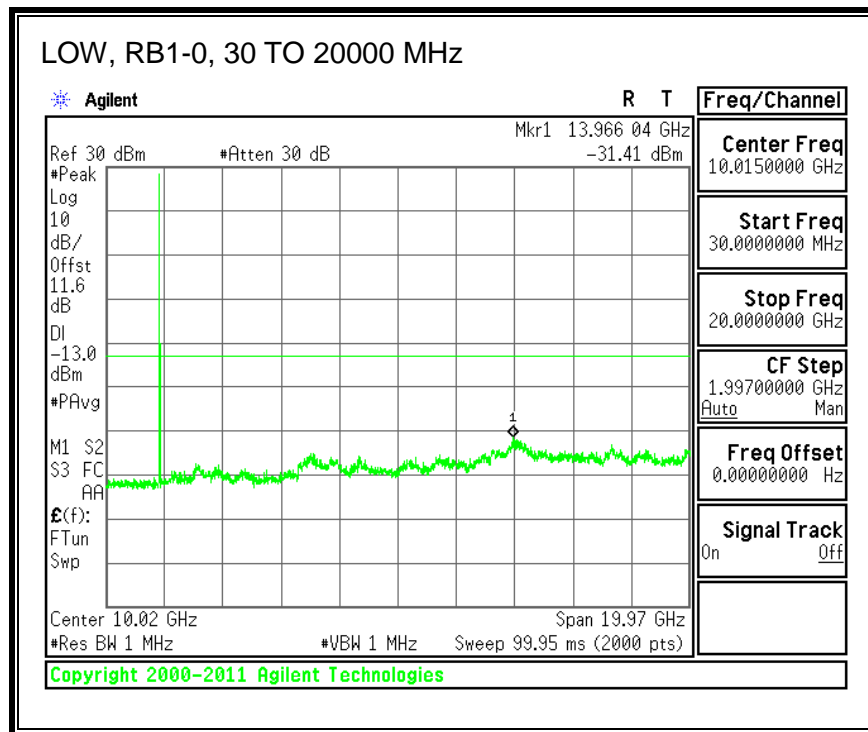


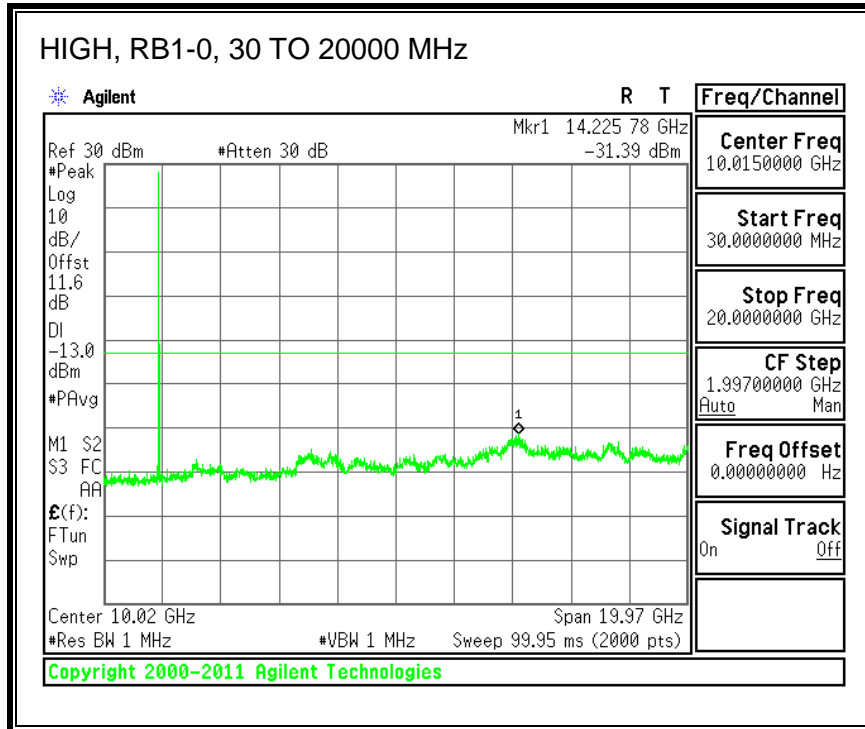
16QAM, (15.0 MHz BAND WIDTH)



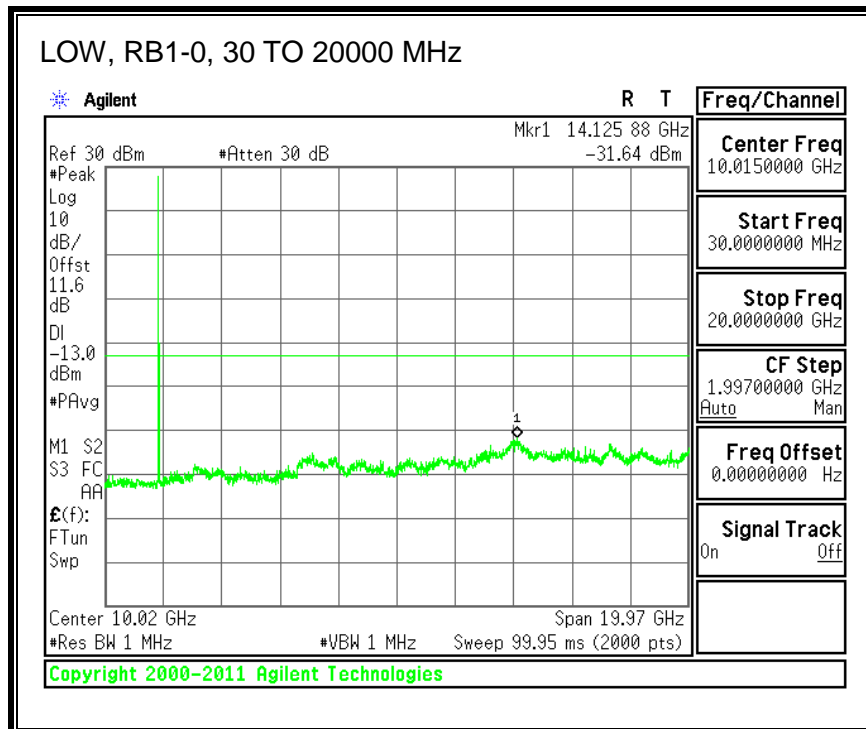


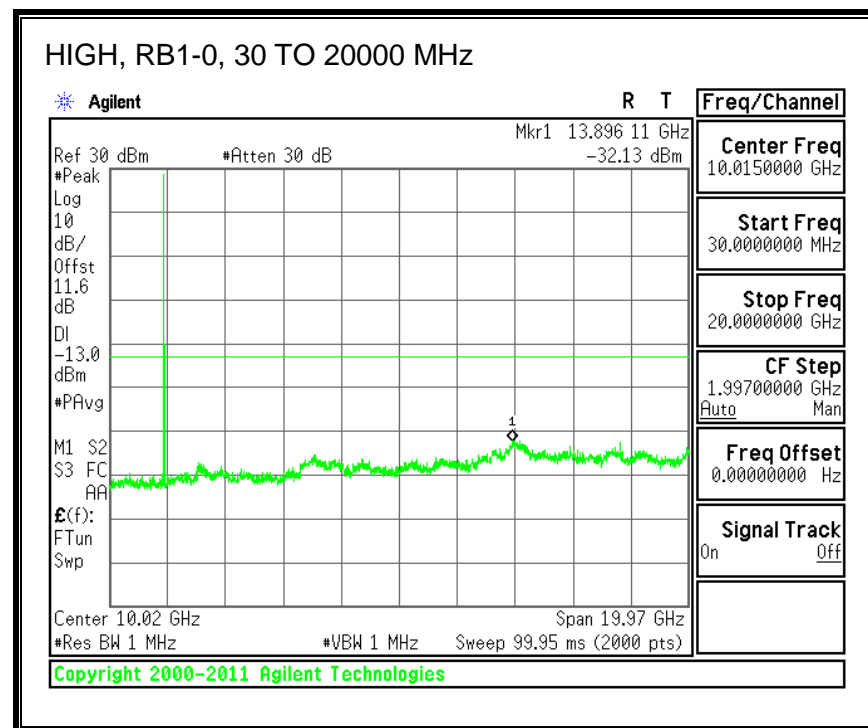
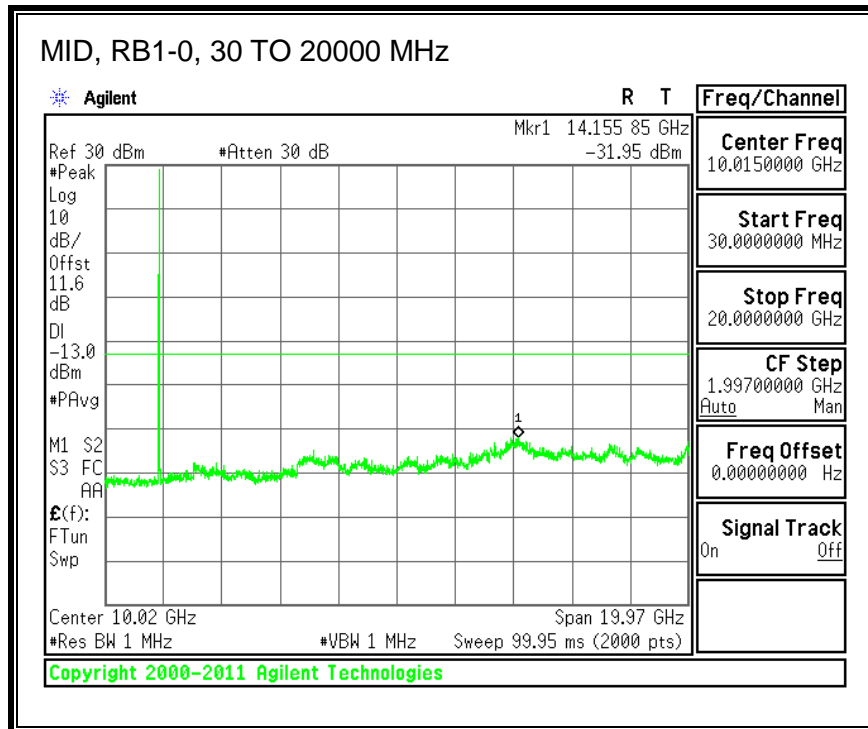
QPSK, (20.0 MHz BAND WIDTH)





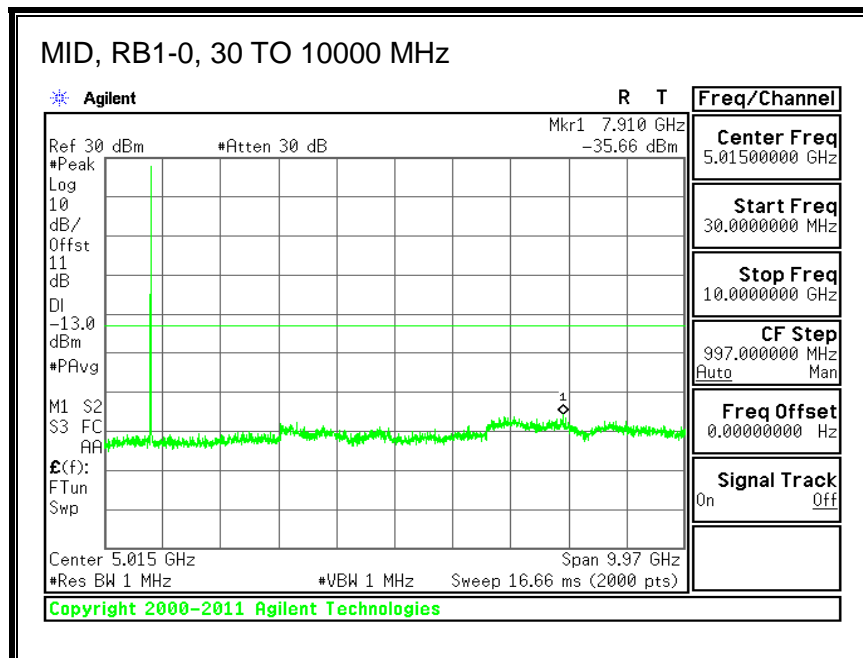
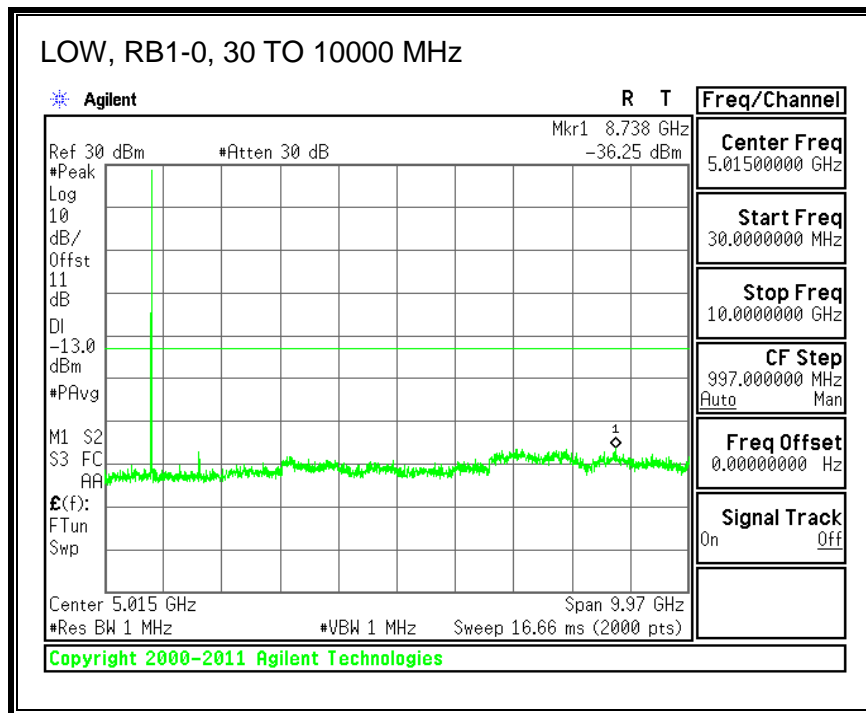
16QAM, (20.0 MHz BAND WIDTH)

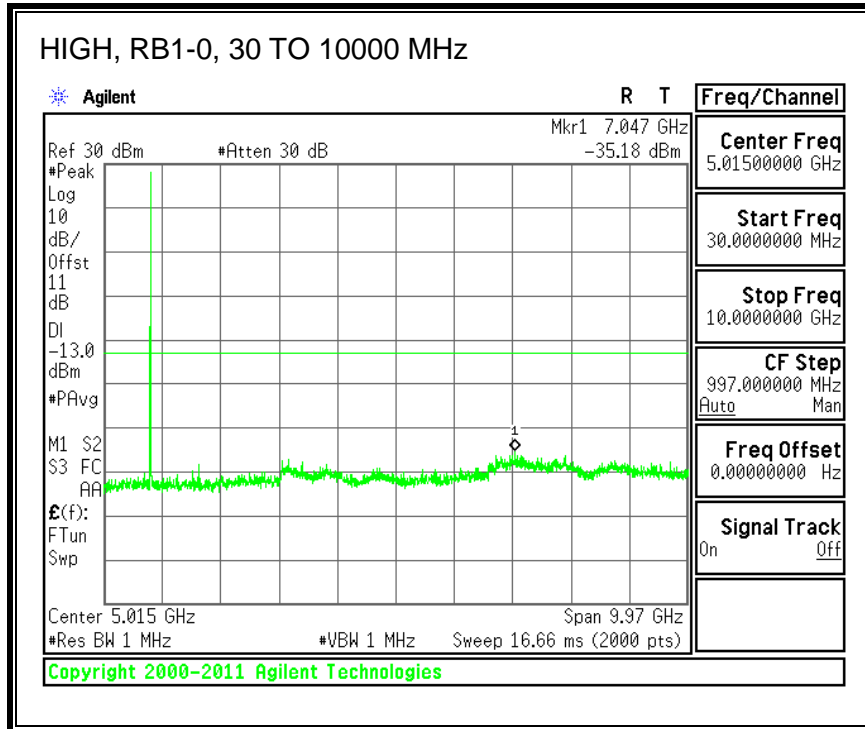




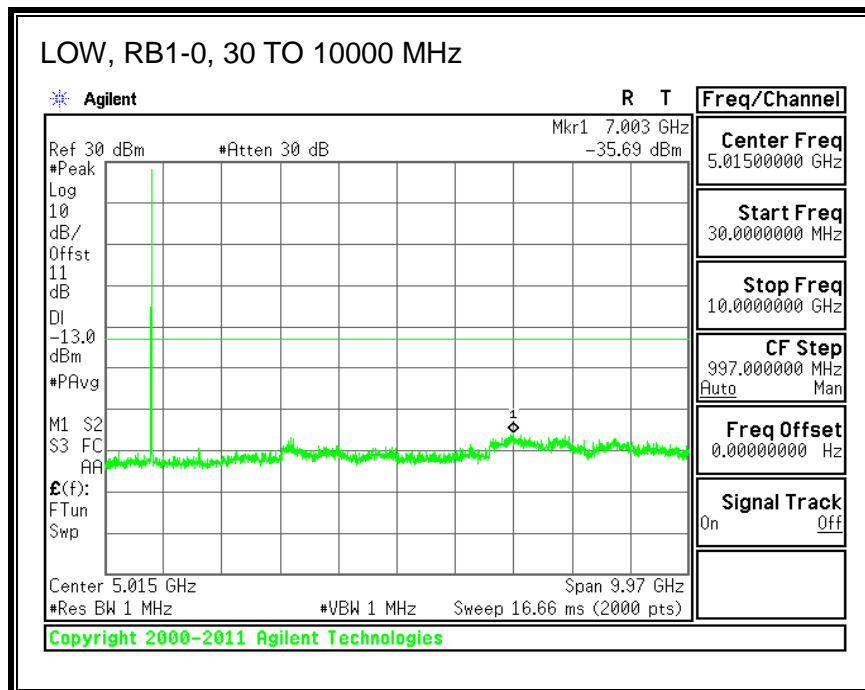
8.3.8. LTE BAND 26

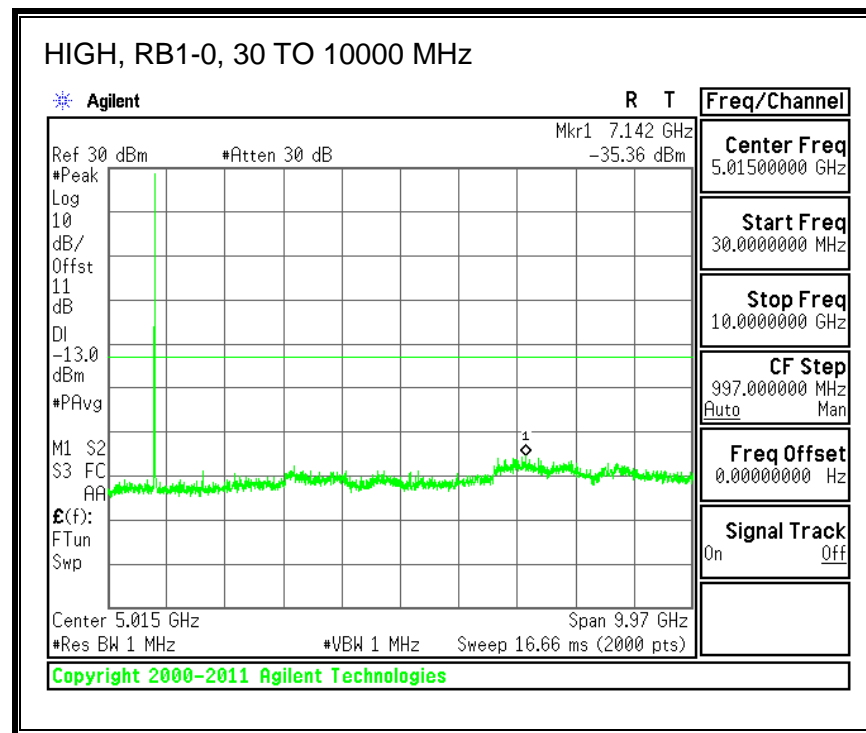
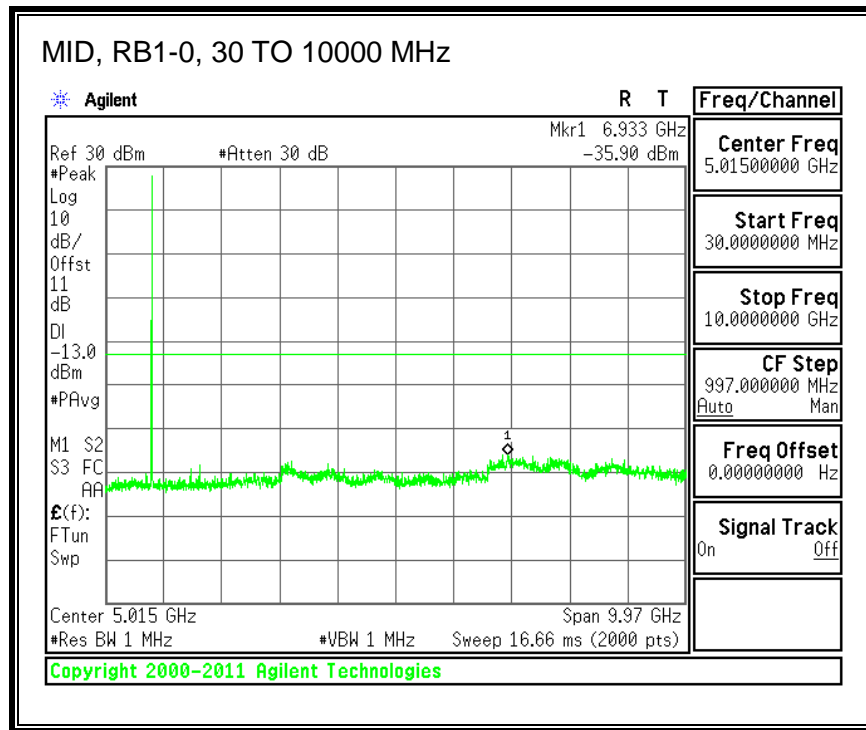
QPSK, (3.0 MHz BAND WIDTH)



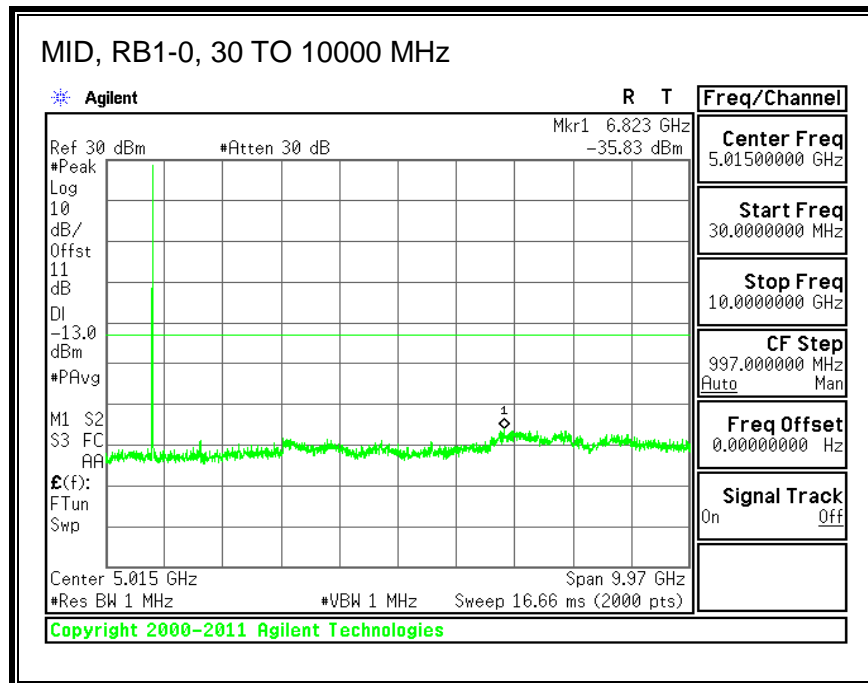


16QAM, (3.0 MHz BAND WIDTH)

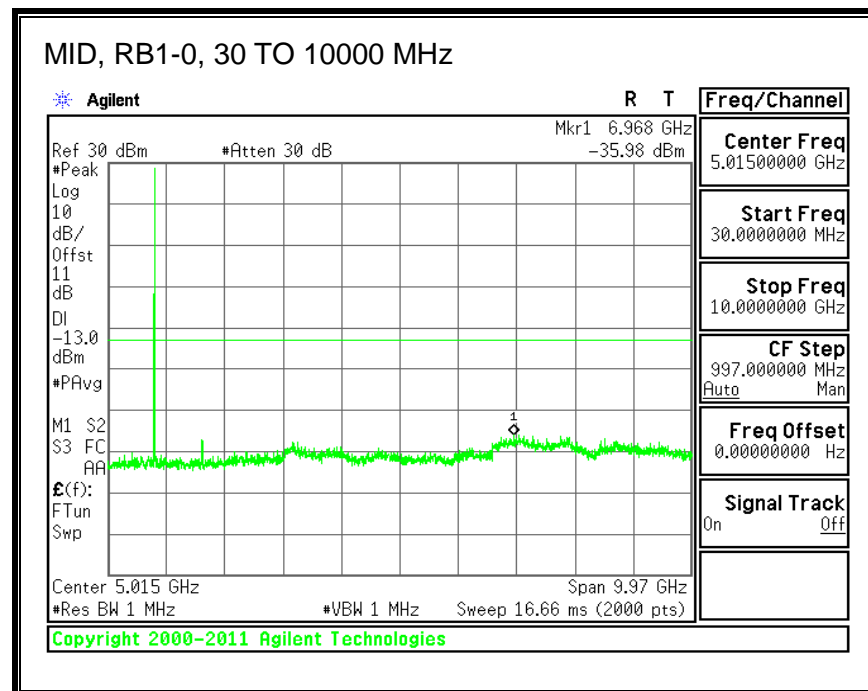




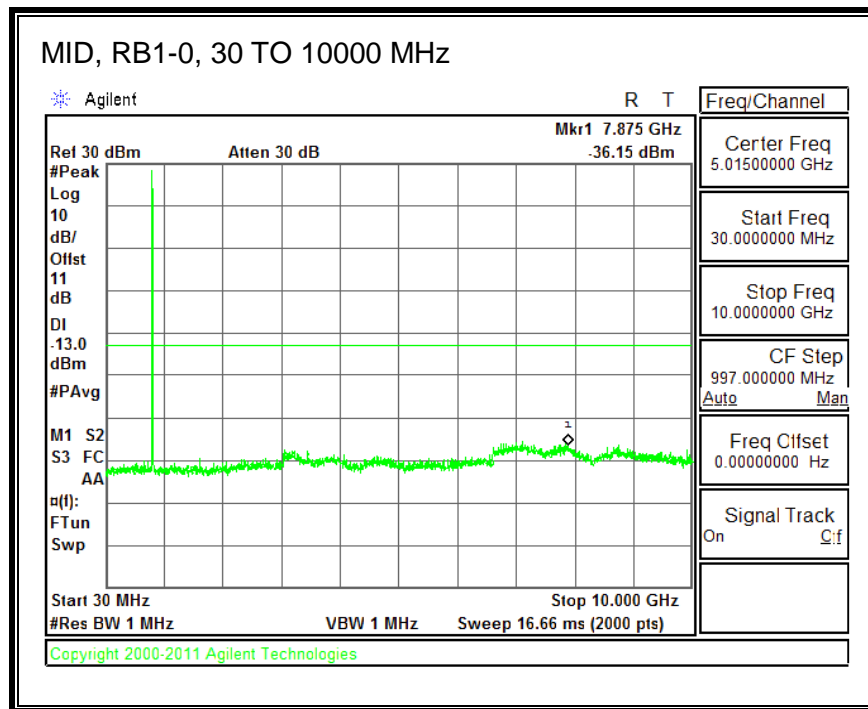
QPSK, (5.0 MHz BAND WIDTH)



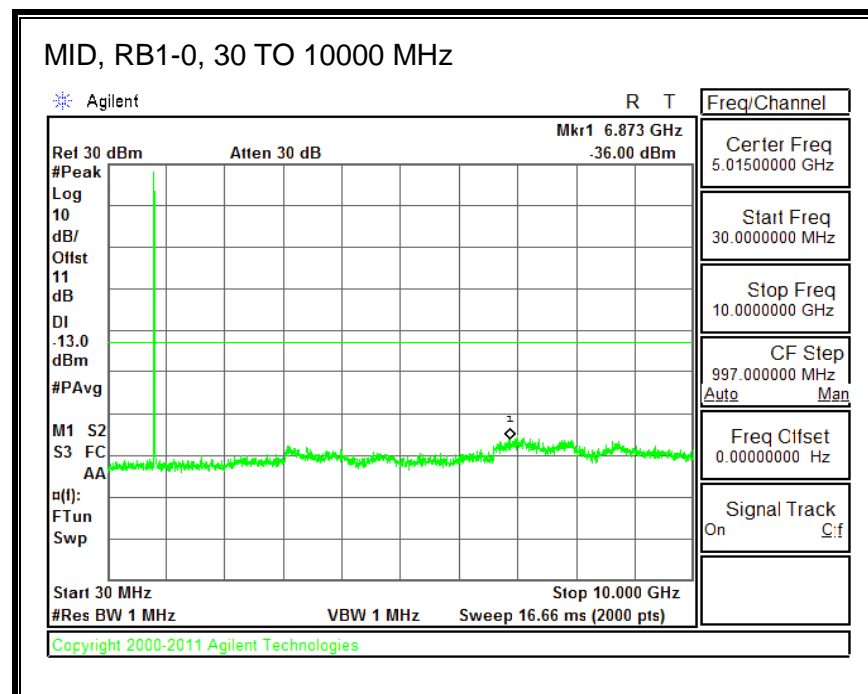
16QAM, (5.0 MHz BAND WIDTH)



QPSK, (10.0 MHz BAND WIDTH)

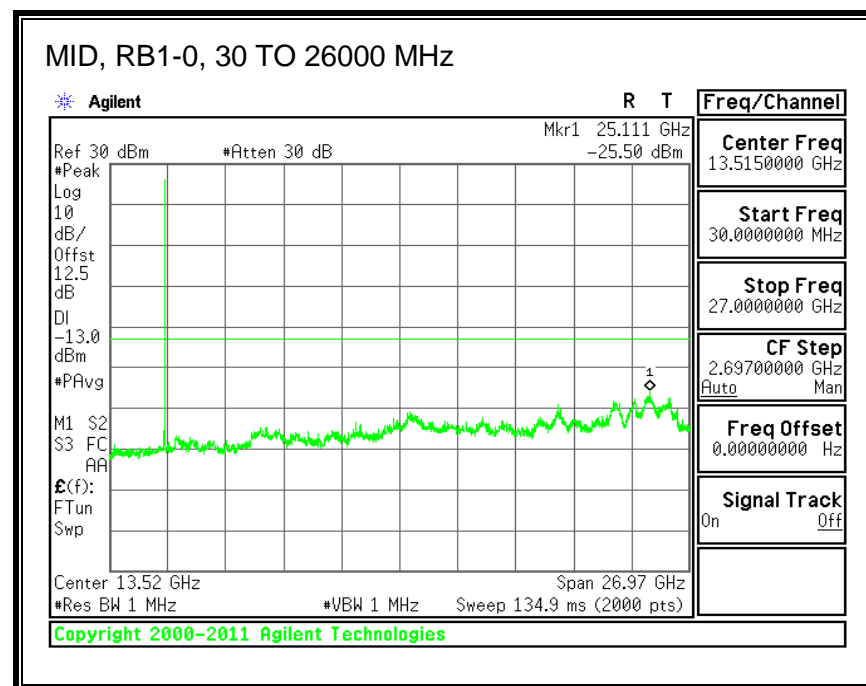
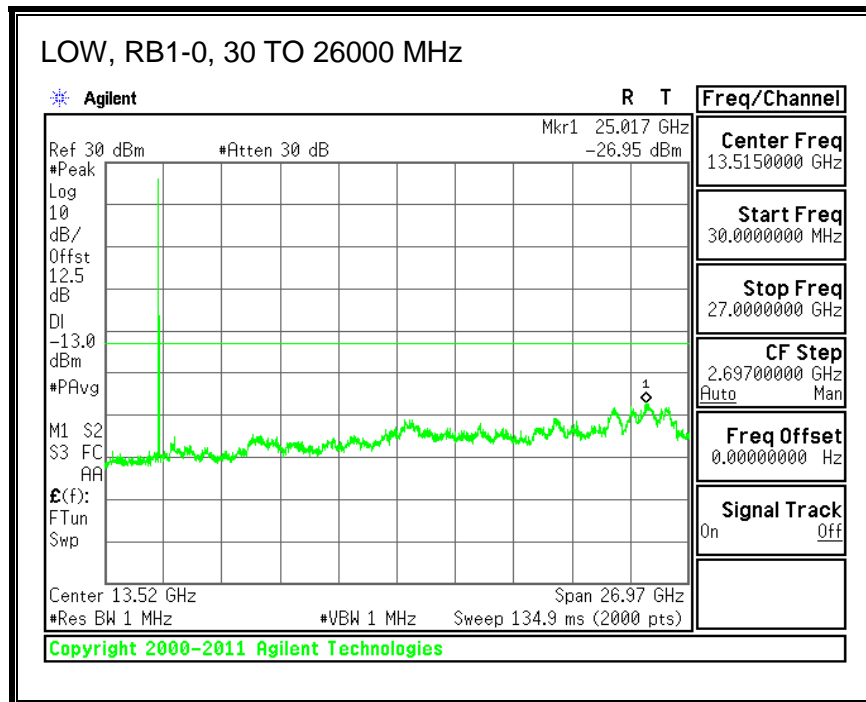


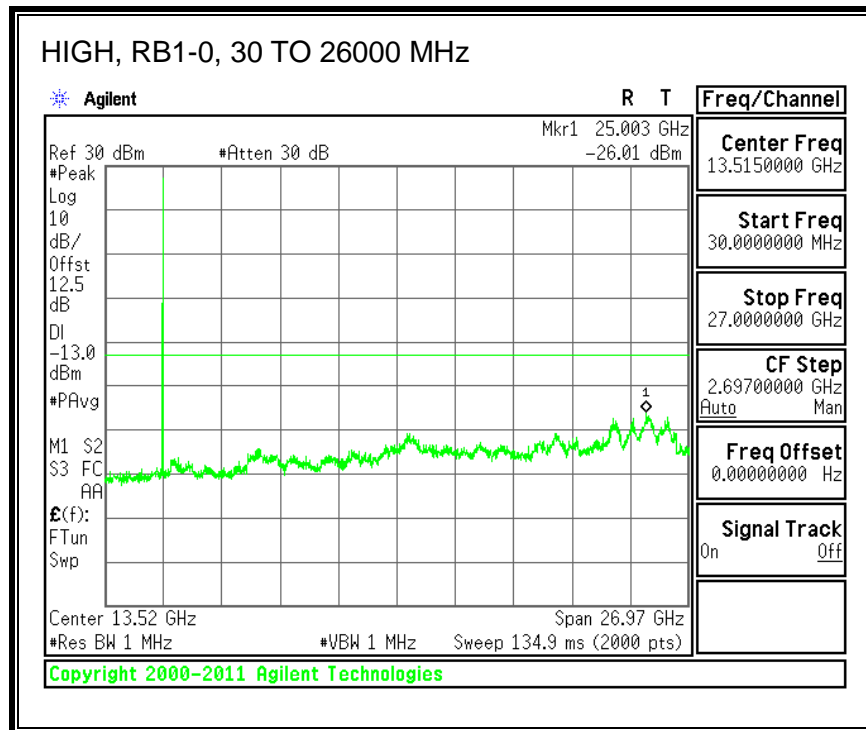
16QAM, (10.0 MHz BAND WIDTH)



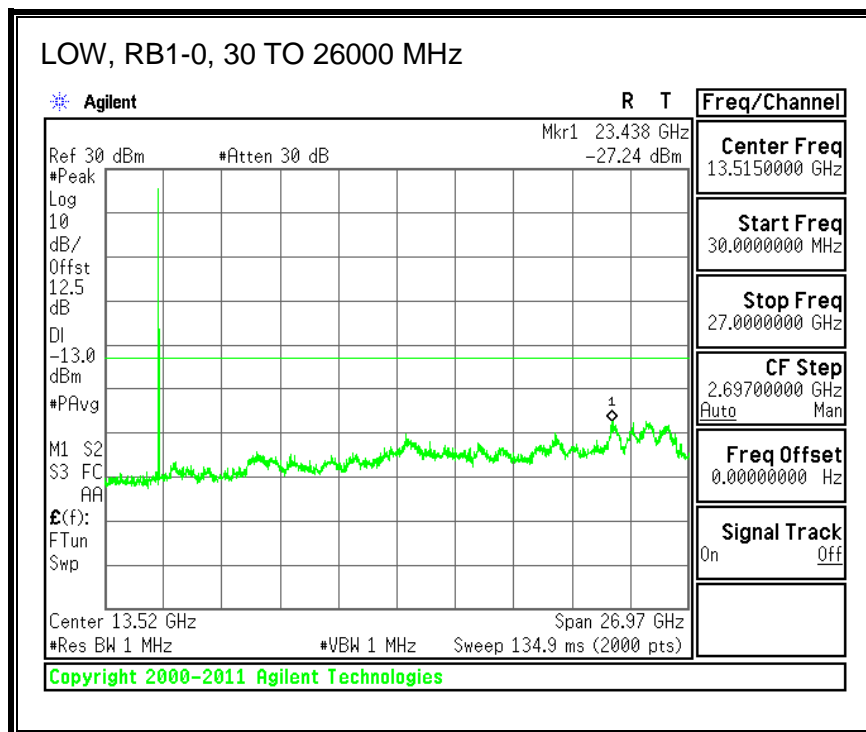
8.3.9. LTE BAND 41

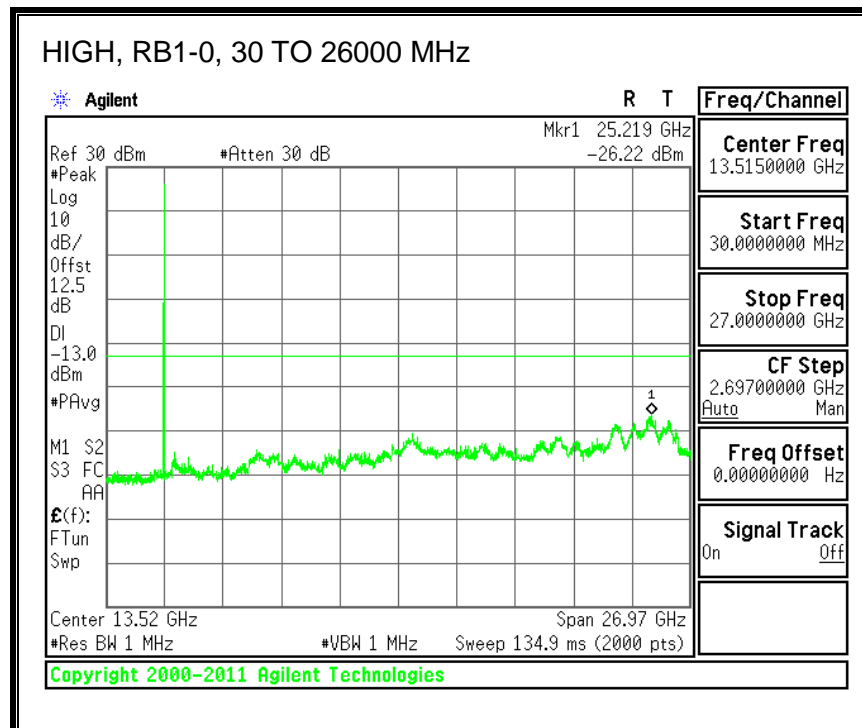
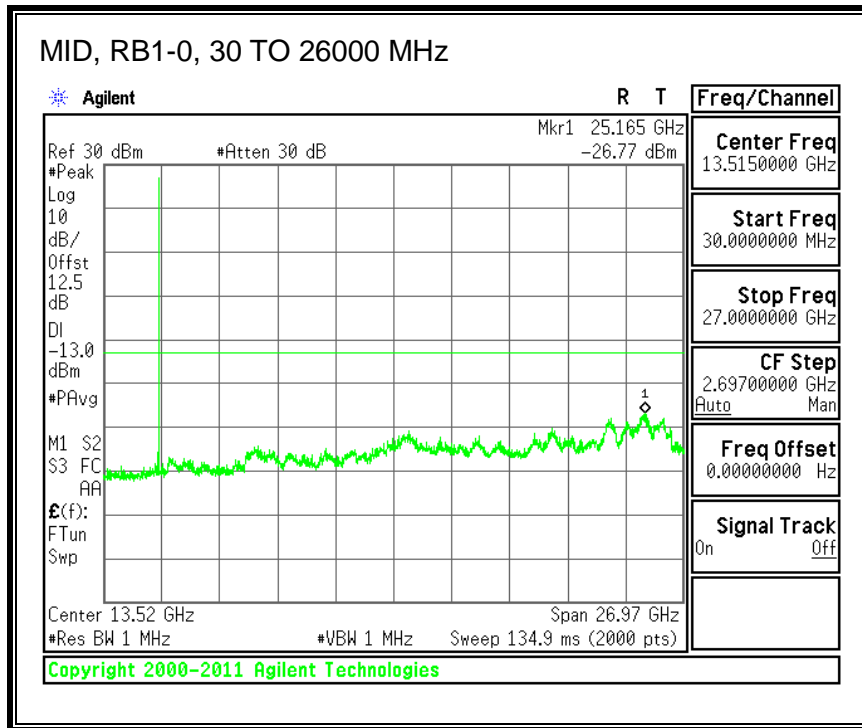
QPSK, (5.0 MHz BAND WIDTH)



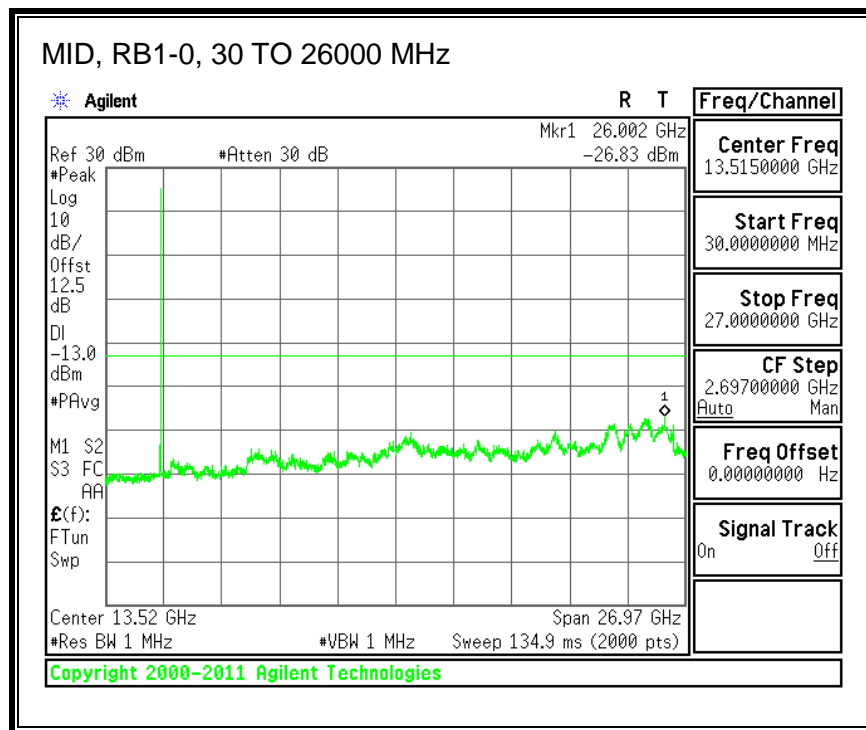
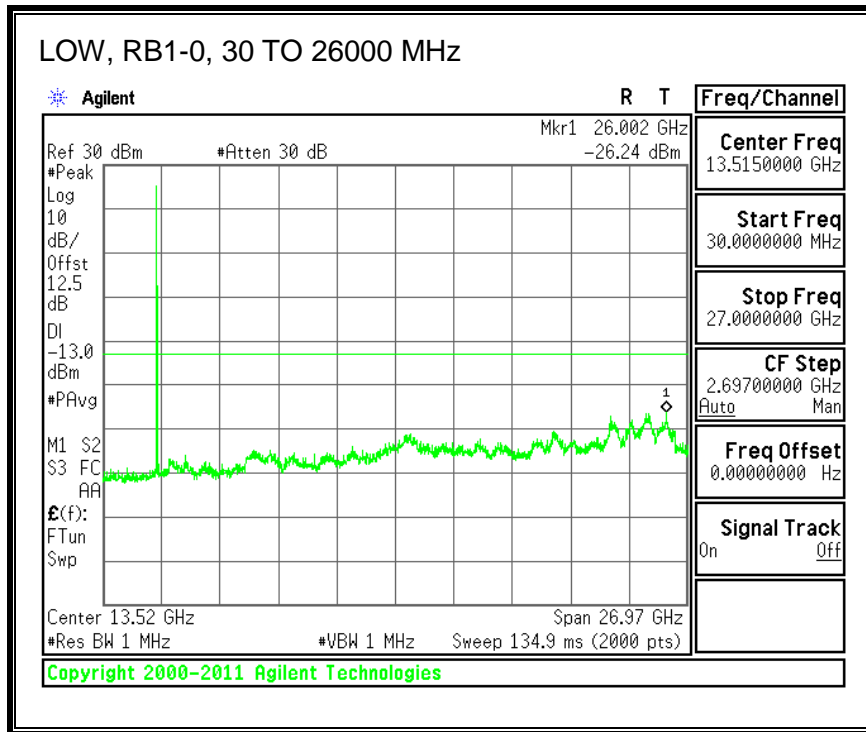


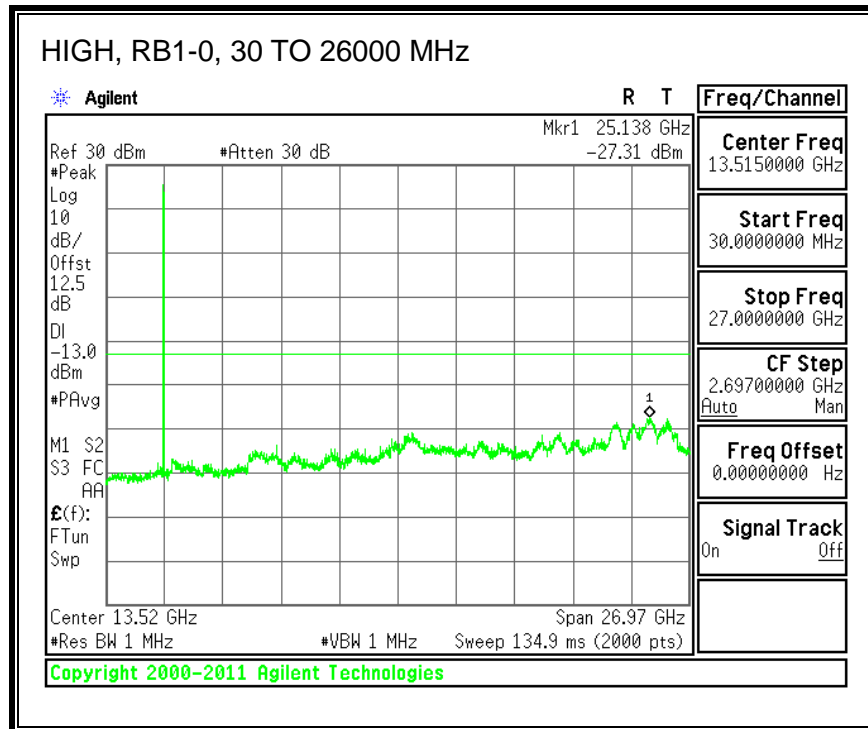
16QAM, (5.0 MHz BAND WIDTH)



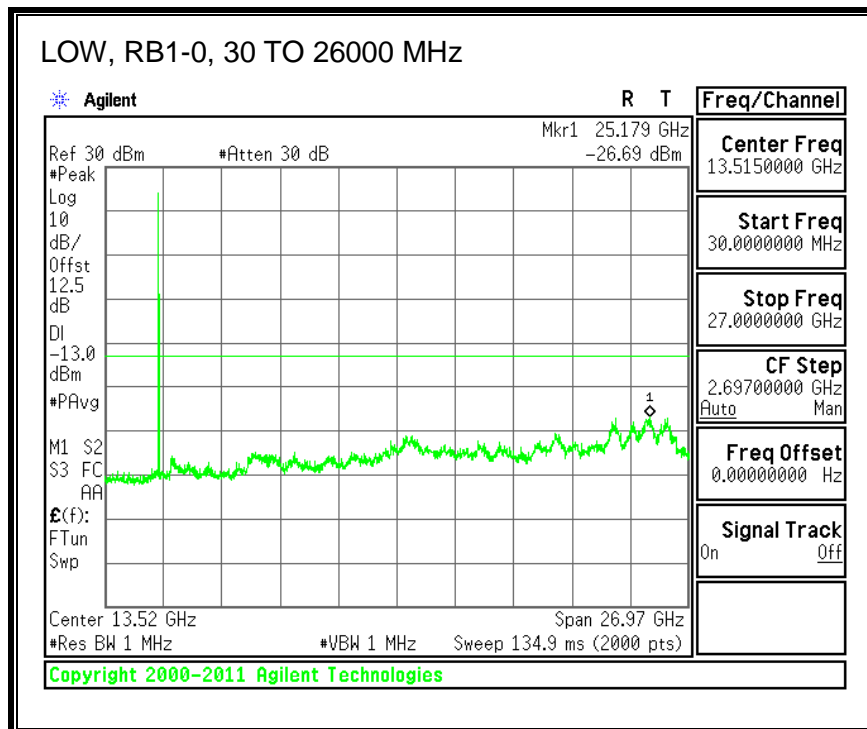


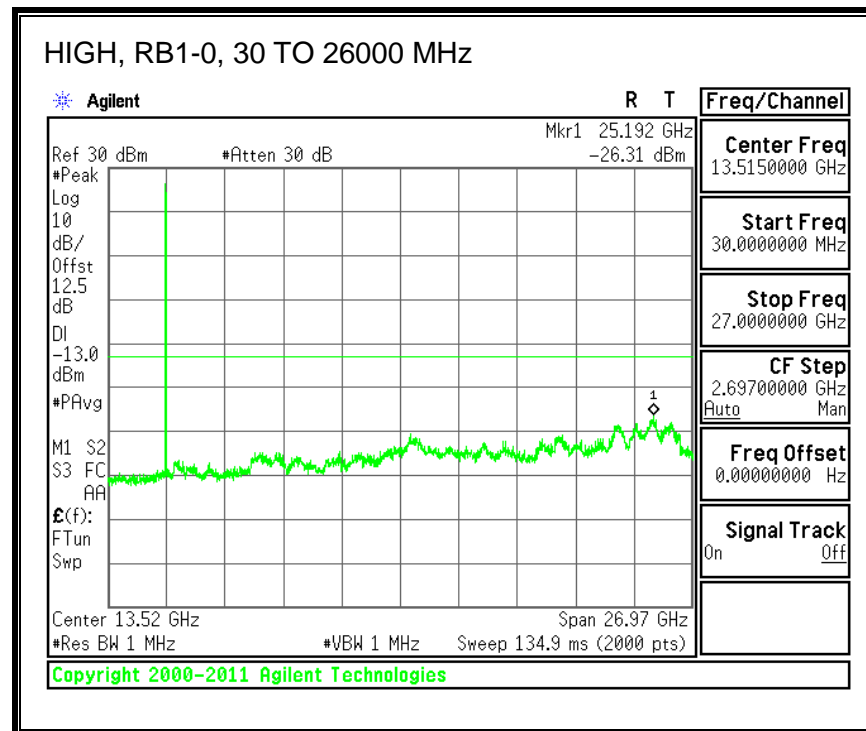
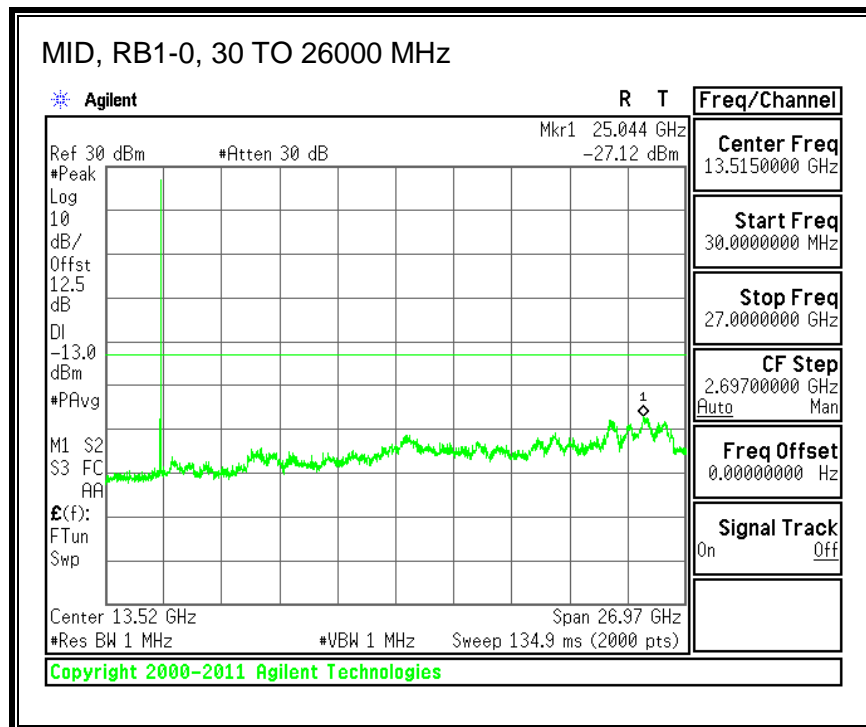
QPSK, (10.0 MHz BAND WIDTH)



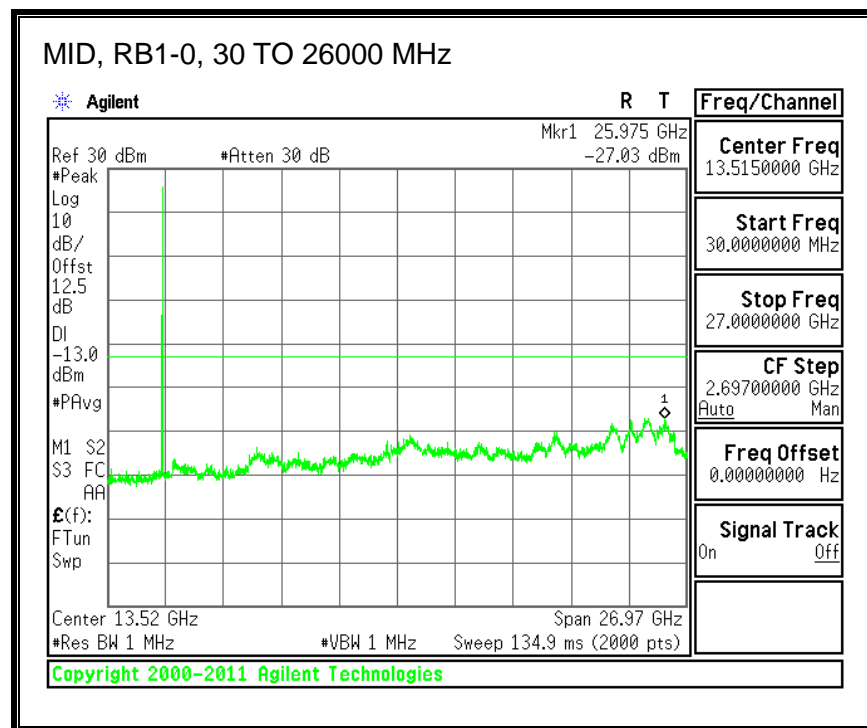
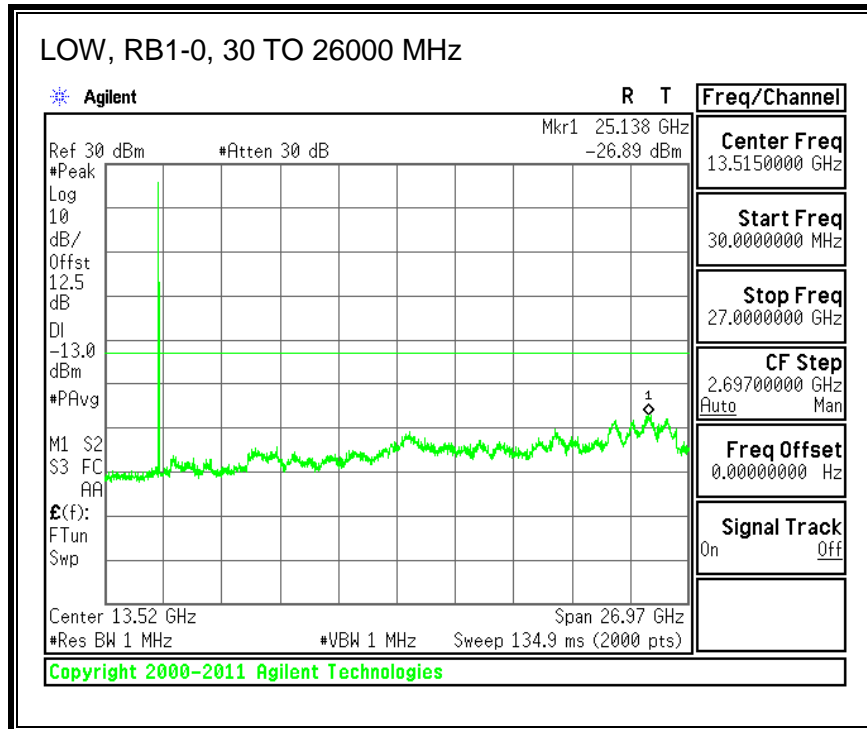


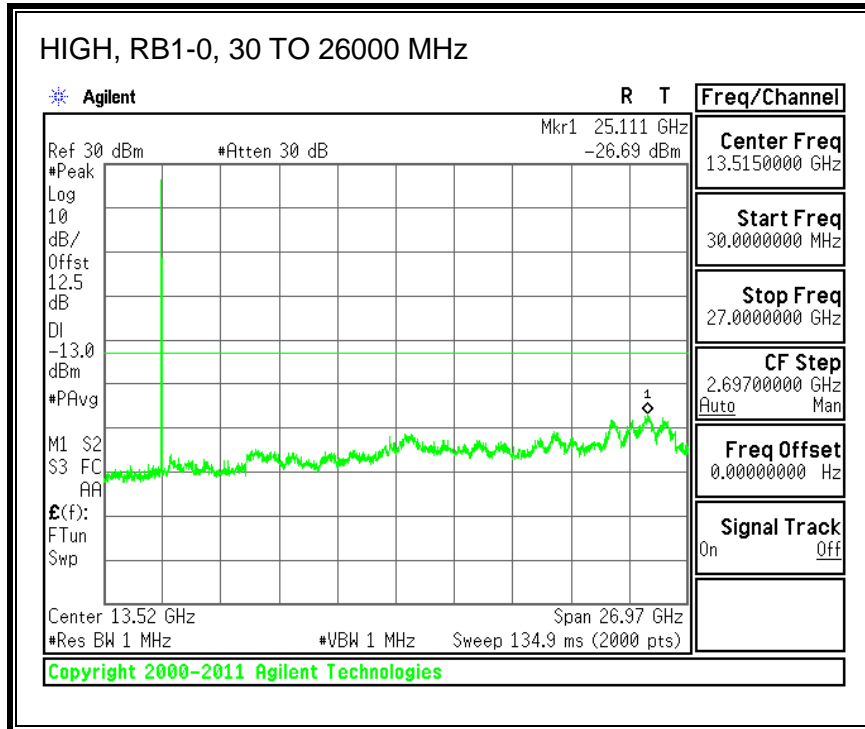
16QAM, (10.0 MHz BAND WIDTH)



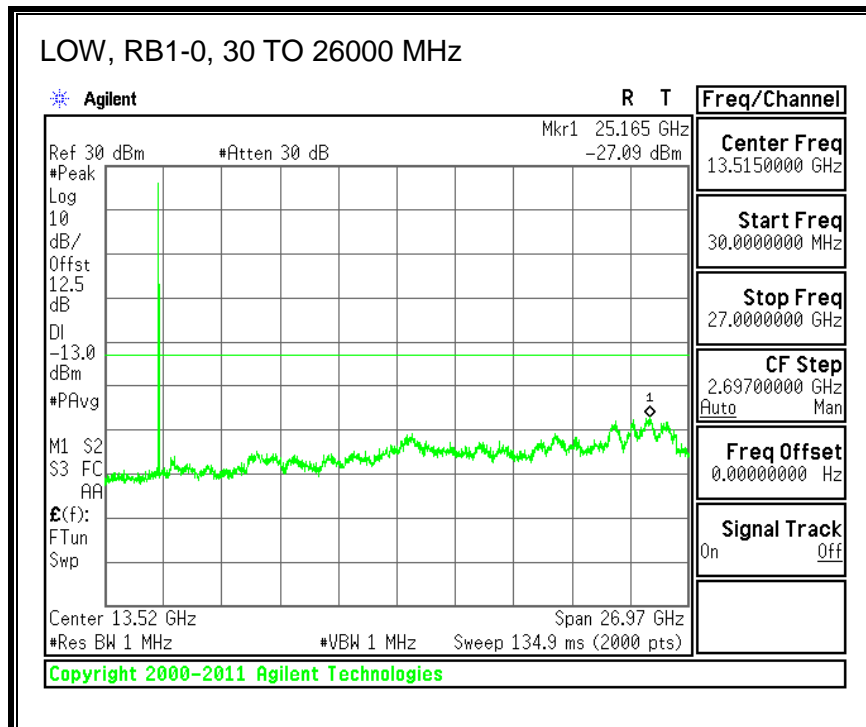


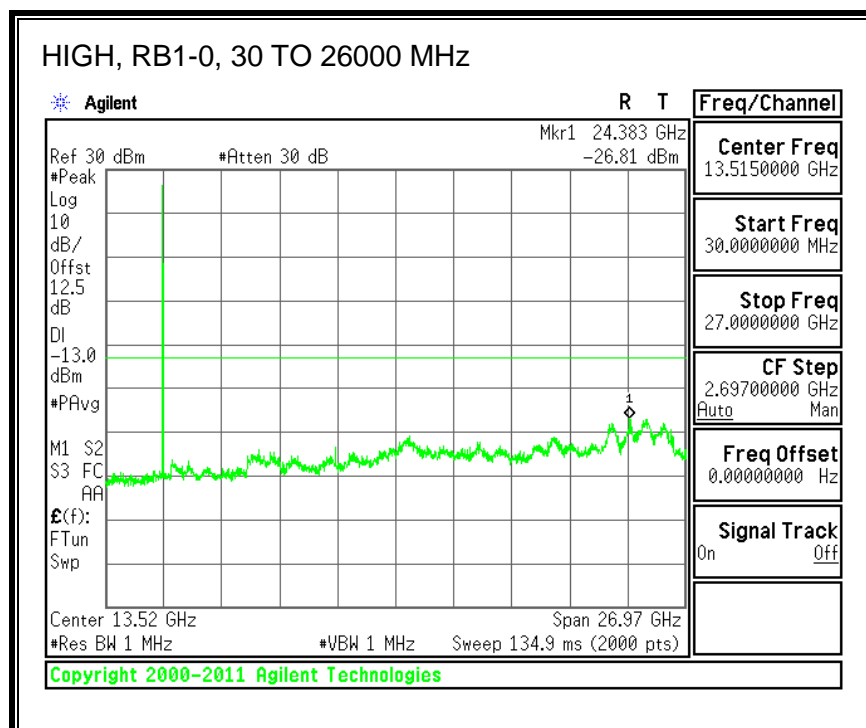
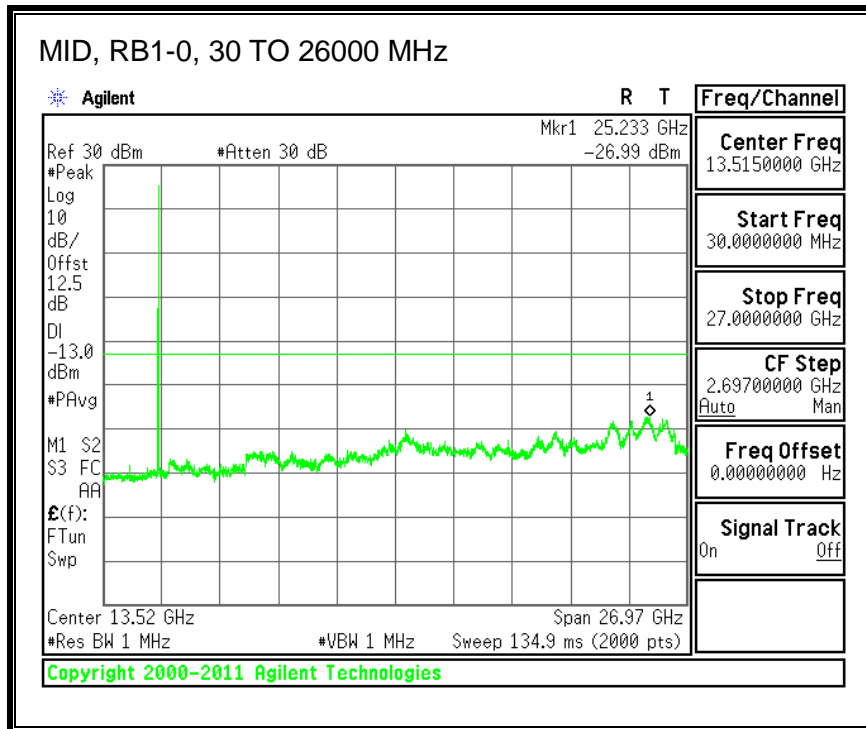
QPSK, (15.0 MHz BAND WIDTH)



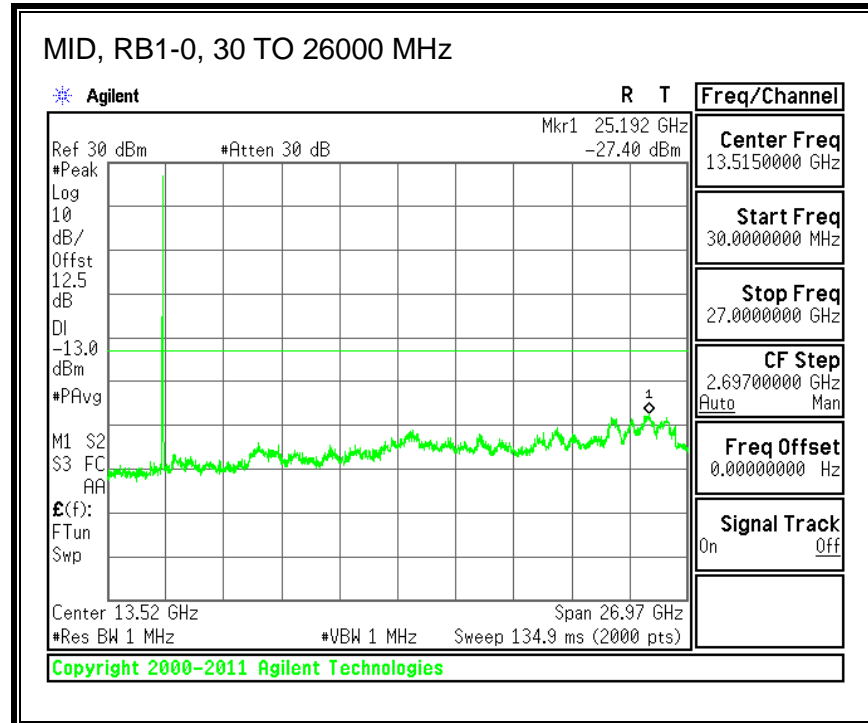
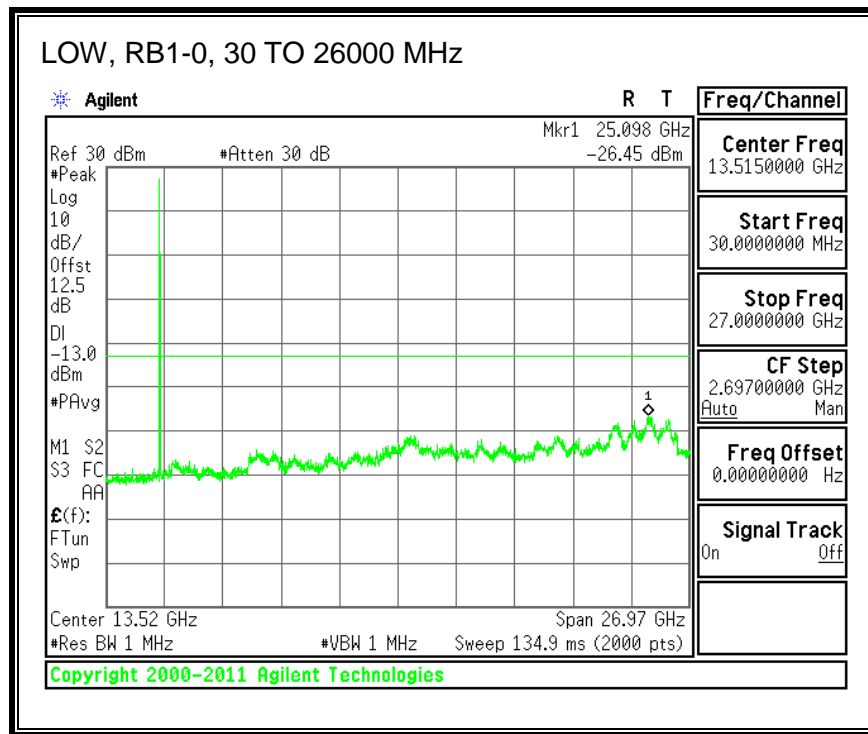


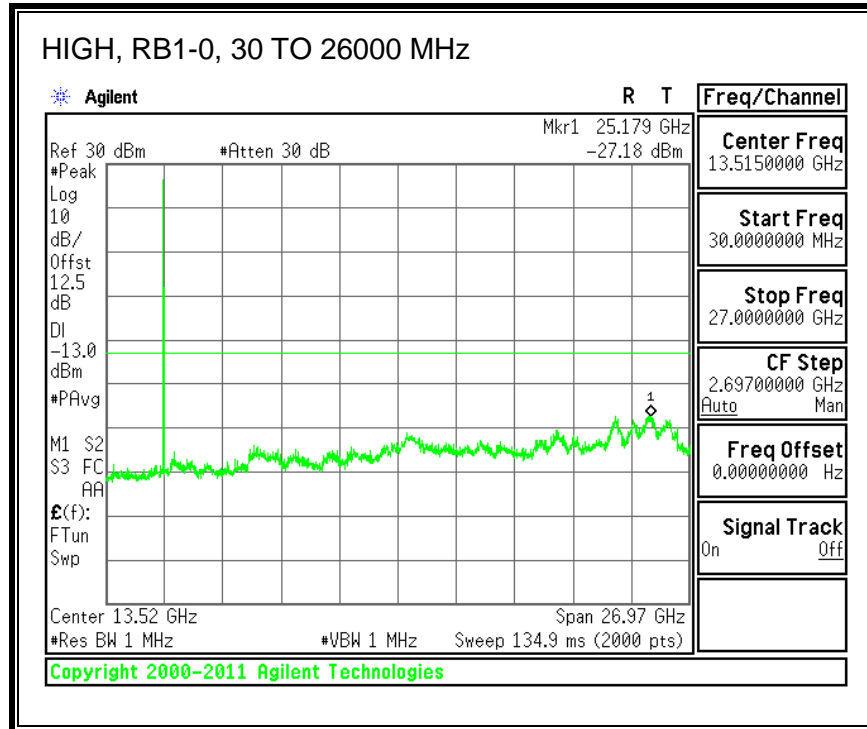
16QAM, (15.0 MHz BAND WIDTH)



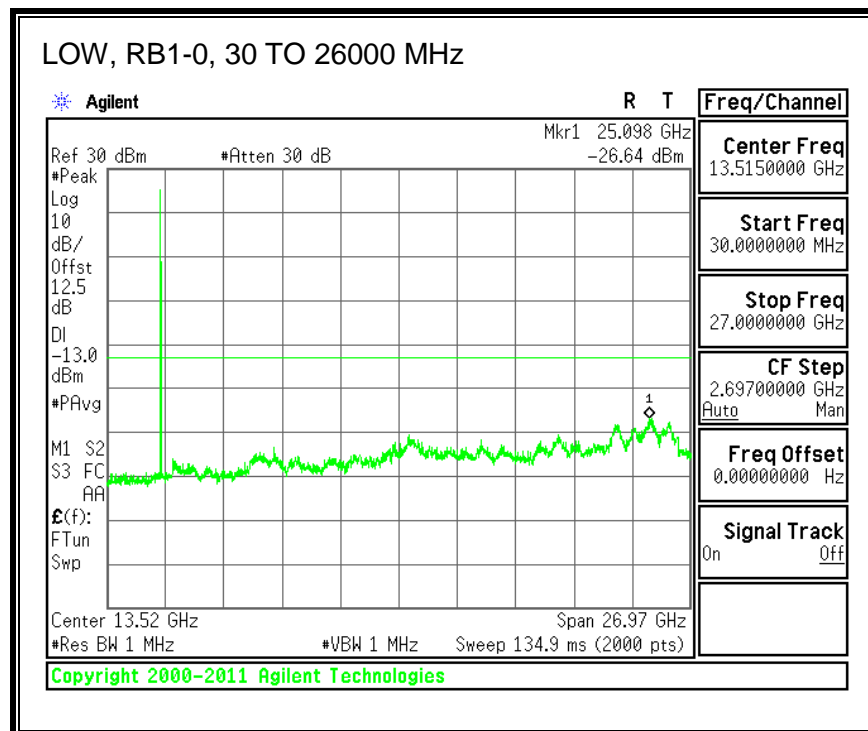


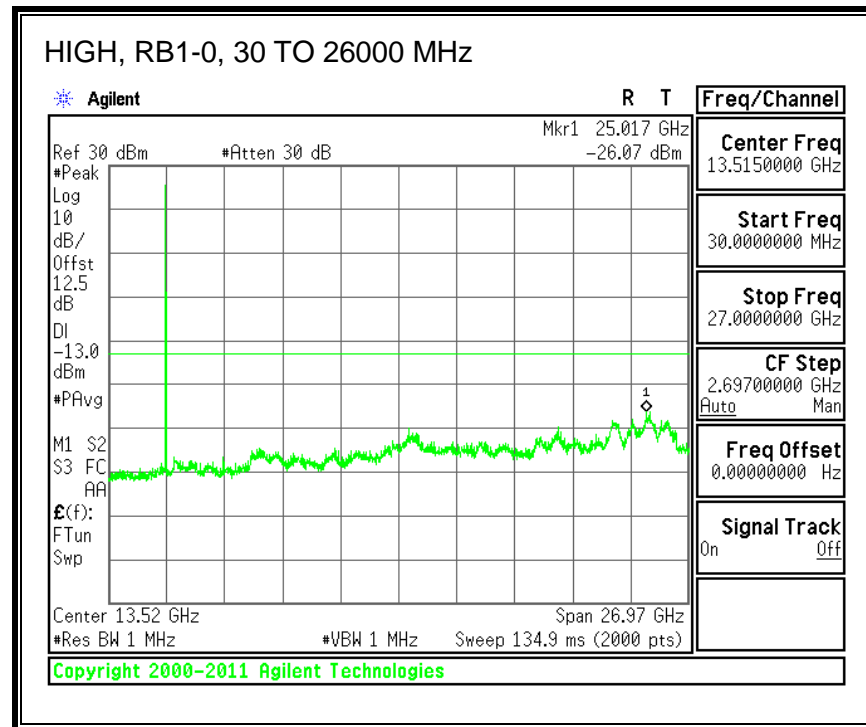
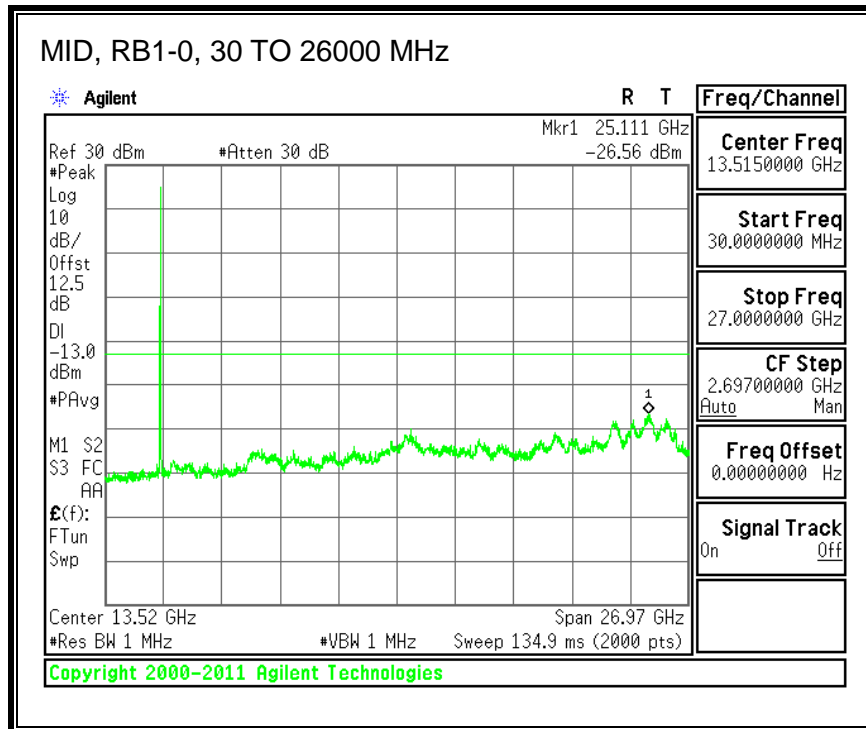
QPSK, (20.0 MHz BAND WIDTH)





16QAM, (20.0 MHz BAND WIDTH)





8.4. FREQUENCY STABILITY

RULE PART(S)

FCC: §2.1055, §22.355, §24.235, §27.54

LIMITS

§22.355 - The carrier frequency shall not depart from the reference frequency in excess of ± 2.5 ppm for mobile stations.

§24.235 - The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

TEST PROCEDURE

Use CMW 500 with Frequency Error measurement capability.

- Temp. = -30° to $+50^{\circ}\text{C}$
- Voltage = low voltage, 3.4VDC, Normal, 3.8VDC and High voltage, 4.3VDC.

Frequency Stability vs Temperature:

The EUT is placed inside a temperature chamber. The temperature is set to 20°C and allowed to stabilize. After sufficient soak time, the transmitting frequency error is measured. The temperature is increased by 10 degrees, allowed to stabilize and soak, and then the measurement is repeated. This is repeated until $+50^{\circ}\text{C}$ is reached.

Frequency Stability vs Voltage:

The peak frequency error is recorded (worst-case).

MODES TESTED

- LTE Band 2
- LTE Band 4
- LTE Band 5
- LTE Band 13
- LTE Band 17
- LTE Band 25
- LTE Band 26
- LTE Band 41

RESULTS

See the following pages.

8.4.1. LTE BAND 2

QPSK, (20MHz BANDWIDTH)

| Limit | | 1850 | 1910 | Delta (Hz) | Frequency Stability (ppm) |
|----------------|-----------|----------------------------|-----------------------------|---------------|---------------------------------|
| Condition | | F low @ -13dBm (MHz) | F high @ -13dBm (MHz) | | |
| Temperature | Voltage | | | | |
| Normal (25C) | Normal | 1851.0175 | 1908.9855 | | |
| Extreme (50C) | | 1851.0175 | 1908.9855 | -12.7 | -0.007 |
| Extreme (40C) | | 1851.0175 | 1908.9855 | 11.2 | 0.006 |
| Extreme (30C) | | 1851.0175 | 1908.9855 | 15.4 | 0.008 |
| Extreme (10C) | | 1851.0175 | 1908.9855 | -14.4 | -0.008 |
| Extreme (0C) | | 1851.0175 | 1908.9855 | 12.1 | 0.006 |
| Extreme (-10C) | | 1851.0175 | 1908.9855 | 13.9 | 0.007 |
| Extreme (-20C) | | 1851.0175 | 1908.9855 | 13.6 | 0.007 |
| Extreme (-30C) | | 1851.0175 | 1908.9855 | -13.2 | -0.007 |
| | | | | | |
| 25C | 10% | 1851.0175 | 1908.9855 | 14.9 | 0.008 |
| | -10% | 1851.0175 | 1908.9855 | 26.1 | 0.014 |
| | End Point | 1851.0175 | 1908.9855 | -15.9 | -0.008 |

16QAM, (20MHz BANDWIDTH)

| Limit | | 1850 | 1910 | Delta (Hz) | Frequency Stability (ppm) |
|----------------|-----------|----------------------------|-----------------------------|---------------|---------------------------------|
| Condition | | F low @ -13dBm (MHz) | F high @ -13dBm (MHz) | | |
| Temperature | Voltage | | | | |
| Normal (25C) | Normal | 1851.0170 | 1908.9813 | | |
| Extreme (50C) | | 1851.0170 | 1908.9813 | -10.5 | -0.006 |
| Extreme (40C) | | 1851.0170 | 1908.9813 | -12.7 | -0.007 |
| Extreme (30C) | | 1851.0170 | 1908.9813 | -13.0 | -0.007 |
| Extreme (10C) | | 1851.0170 | 1908.9813 | -12.1 | -0.006 |
| Extreme (0C) | | 1851.0170 | 1908.9813 | -10.8 | -0.006 |
| Extreme (-10C) | | 1851.0170 | 1908.9813 | -14.0 | -0.007 |
| Extreme (-20C) | | 1851.0170 | 1908.9813 | -12.3 | -0.007 |
| Extreme (-30C) | | 1851.0170 | 1908.9813 | 12.9 | 0.007 |
| | | | | | |
| 25C | 10% | 1851.0170 | 1908.9813 | 14.6 | 0.008 |
| | -10% | 1851.0170 | 1908.9813 | -11.6 | -0.006 |
| | End Point | 1851.0170 | 1908.9813 | -12.7 | -0.007 |

8.4.2. LTE BAND 4

QPSK, (20MHz BANDWIDTH)

| Limit | | 1710 | 1755 | Delta (Hz) | Frequency Stability (ppm) |
|----------------|-----------|----------------------|-----------------------|------------|---------------------------|
| Condition | | F low @ -13dBm (MHz) | F high @ -13dBm (MHz) | | |
| Temperature | Voltage | | | | |
| Normal (25C) | Normal | 1711.0024 | 1753.9855 | | |
| Extreme (50C) | | 1711.0024 | 1753.9855 | -13.8 | -0.008 |
| Extreme (40C) | | 1711.0024 | 1753.9855 | -11.7 | -0.007 |
| Extreme (30C) | | 1711.0024 | 1753.9856 | 15.1 | 0.009 |
| Extreme (10C) | | 1711.0024 | 1753.9855 | -13.2 | -0.008 |
| Extreme (0C) | | 1711.0024 | 1753.9855 | -11.3 | -0.007 |
| Extreme (-10C) | | 1711.0024 | 1753.9855 | -11.4 | -0.007 |
| Extreme (-20C) | | 1711.0024 | 1753.9855 | -10.3 | -0.006 |
| Extreme (-30C) | | 1711.0024 | 1753.9855 | -11.5 | -0.007 |
| | | | | | |
| 25C | 10% | 1711.0024 | 1753.9855 | -10.6 | -0.006 |
| | -10% | 1711.0024 | 1753.9855 | -11.7 | -0.007 |
| | End Point | 1711.0024 | 1753.9855 | -12.3 | -0.007 |

16QAM, (20MHz BANDWIDTH)

| Limit | | 1710 | 1755 | Delta (Hz) | Frequency Stability (ppm) |
|----------------|-----------|----------------------|-----------------------|------------|---------------------------|
| Condition | | F low @ -13dBm (MHz) | F high @ -13dBm (MHz) | | |
| Temperature | Voltage | | | | |
| Normal (25C) | Normal | 1711.0156 | 1753.9809 | | |
| Extreme (50C) | | 1711.0155 | 1753.9809 | -15.9 | -0.009 |
| Extreme (40C) | | 1711.0155 | 1753.9809 | -13.4 | -0.008 |
| Extreme (30C) | | 1711.0155 | 1753.9809 | -12.2 | -0.007 |
| Extreme (10C) | | 1711.0155 | 1753.9809 | -13.2 | -0.008 |
| Extreme (0C) | | 1711.0155 | 1753.9809 | -13.8 | -0.008 |
| Extreme (-10C) | | 1711.0155 | 1753.9809 | -11.3 | -0.007 |
| Extreme (-20C) | | 1711.0155 | 1753.9809 | -13.3 | -0.008 |
| Extreme (-30C) | | 1711.0155 | 1753.9809 | -11.8 | -0.007 |
| | | | | | |
| 25C | 10% | 1711.0155 | 1753.9809 | -11.6 | -0.007 |
| | -10% | 1711.0155 | 1753.9809 | -12.4 | -0.007 |
| | End Point | 1711.0155 | 1753.9809 | -13.8 | -0.008 |

8.4.3. LTE BAND 5

QPSK, (10MHz BANDWIDTH)

| Limit | | 824 | 849 | Delta (Hz) | Frequency Stability (ppm) |
|----------------|-----------|----------------------|-----------------------|------------|---------------------------|
| Condition | | F low @ -13dBm (MHz) | F high @ -13dBm (MHz) | | |
| Temperature | Voltage | | | | |
| Normal (25C) | Normal | 824.5020 | 848.4947 | | |
| Extreme (50C) | | 824.5020 | 848.4947 | -12.4 | -0.015 |
| Extreme (40C) | | 824.5020 | 848.4947 | -5.3 | -0.006 |
| Extreme (30C) | | 824.5020 | 848.4947 | -4.7 | -0.006 |
| Extreme (10C) | | 824.5020 | 848.4947 | -6.1 | -0.007 |
| Extreme (0C) | | 824.5020 | 848.4947 | -4.6 | -0.005 |
| Extreme (-10C) | | 824.5020 | 848.4947 | -5.5 | -0.007 |
| Extreme (-20C) | | 824.5020 | 848.4947 | -4.6 | -0.006 |
| Extreme (-30C) | | 824.5020 | 848.4947 | -4.6 | -0.006 |
| | | | | | |
| 25C | 10% | 824.5020 | 848.4947 | -5.2 | -0.006 |
| | -10% | 824.5020 | 848.4947 | -7.4 | -0.009 |
| | End Point | 824.5020 | 848.4947 | 5.8 | 0.007 |

16QAM, (10MHz BANDWIDTH)

| Limit | | 824 | 849 | Delta (Hz) | Frequency Stability (ppm) |
|----------------|-----------|----------------------|-----------------------|------------|---------------------------|
| Condition | | F low @ -13dBm (MHz) | F high @ -13dBm (MHz) | | |
| Temperature | Voltage | | | | |
| Normal (25C) | Normal | 824.5024 | 848.4944 | | |
| Extreme (50C) | | 824.5024 | 848.4944 | -6.8 | -0.008 |
| Extreme (40C) | | 824.5024 | 848.4944 | -7.8 | -0.009 |
| Extreme (30C) | | 824.5024 | 848.4944 | -6.7 | -0.008 |
| Extreme (10C) | | 824.5024 | 848.4944 | -5.6 | -0.007 |
| Extreme (0C) | | 824.5024 | 848.4944 | -5.1 | -0.006 |
| Extreme (-10C) | | 824.5024 | 848.4944 | 5.5 | 0.007 |
| Extreme (-20C) | | 824.5024 | 848.4944 | -5.1 | -0.006 |
| Extreme (-30C) | | 824.5024 | 848.4944 | -4.5 | -0.005 |
| | | | | | |
| 25C | 10% | 824.5024 | 848.4944 | -6.2 | -0.007 |
| | -10% | 824.5024 | 848.4944 | -4.3 | -0.005 |
| | End Point | 824.5024 | 848.4944 | -4.6 | -0.005 |

8.4.4. LTE BAND 13

QPSK, (10MHz BANDWIDTH)

| Limit | | 777 | 787 | Delta (Hz) | Frequency Stability (ppm) |
|----------------|-----------|----------------------|-----------------------|------------|---------------------------|
| Condition | | F low @ -13dBm (MHz) | F high @ -13dBm (MHz) | | |
| Temperature | Voltage | | | | |
| Normal (25C) | Normal | 777.5047 | 786.4999 | | |
| Extreme (50C) | | 777.5047 | 786.4999 | -5.5 | -0.01 |
| Extreme (40C) | | 777.5047 | 786.4999 | -6.4 | -0.01 |
| Extreme (30C) | | 777.5047 | 786.4999 | -5.4 | -0.01 |
| Extreme (10C) | | 777.5047 | 786.4999 | -6.6 | -0.01 |
| Extreme (0C) | | 777.5047 | 786.4999 | 5.7 | 0.01 |
| Extreme (-10C) | | 777.5047 | 786.4999 | -6.5 | -0.01 |
| Extreme (-20C) | | 777.5047 | 786.4999 | -5.5 | -0.01 |
| Extreme (-30C) | | 777.5047 | 786.4999 | -5.7 | -0.01 |
| | | | | | |
| 25C | 10% | 777.5047 | 786.4999 | -6.0 | -0.01 |
| | -10% | 777.5047 | 786.4999 | -5.0 | -0.01 |
| | End Point | 777.5047 | 786.4999 | -4.7 | -0.01 |

16QAM, (10MHz BANDWIDTH)

| Limit | | 777 | 787 | Delta (Hz) | Frequency Stability (ppm) |
|----------------|-----------|----------------------------|-----------------------------|---------------|---------------------------------|
| Condition | | F low @ -13dBm (MHz) | F high @ -13dBm (MHz) | | |
| Temperature | Voltage | | | | |
| Normal (25C) | Normal | 777.5004 | 786.4946 | | |
| Extreme (50C) | | 777.5004 | 786.4946 | -6.8 | -0.01 |
| Extreme (40C) | | 777.5004 | 786.4946 | -6.4 | -0.01 |
| Extreme (30C) | | 777.5004 | 786.4946 | -7.8 | -0.01 |
| Extreme (10C) | | 777.5004 | 786.4946 | -7.2 | -0.01 |
| Extreme (0C) | | 777.5004 | 786.4946 | -7.2 | -0.01 |
| Extreme (-10C) | | 777.5004 | 786.4946 | -7.0 | -0.01 |
| Extreme (-20C) | | 777.5004 | 786.4946 | -6.3 | -0.01 |
| Extreme (-30C) | | 777.5004 | 786.4946 | 5.9 | 0.01 |
| | | | | | |
| 25C | 10% | 777.5004 | 786.4946 | -6.2 | -0.01 |
| | -10% | 777.5004 | 786.4946 | -5.9 | -0.01 |
| | End Point | 777.5004 | 786.4946 | -4.4 | -0.01 |

8.4.5. LTE BAND 17

QPSK, (10MHz BANDWIDTH)

| Limit | | 704 | 716 | Delta (Hz) | Frequency Stability (ppm) |
|----------------|-----------|----------------------|-----------------------|------------|---------------------------|
| Condition | | F low @ -13dBm (MHz) | F high @ -13dBm (MHz) | | |
| Temperature | Voltage | | | | |
| Normal (25C) | Normal | 704.5040 | 715.4979 | | |
| Extreme (50C) | | 704.5040 | 715.4979 | 5.4 | 0.008 |
| Extreme (40C) | | 704.5040 | 715.4979 | -3.8 | -0.005 |
| Extreme (30C) | | 704.5040 | 715.4979 | 3.8 | 0.005 |
| Extreme (10C) | | 704.5040 | 715.4979 | 4.7 | 0.007 |
| Extreme (0C) | | 704.5040 | 715.4979 | -5.5 | -0.008 |
| Extreme (-10C) | | 704.5040 | 715.4979 | 6.0 | 0.008 |
| Extreme (-20C) | | 704.5040 | 715.4979 | 6.2 | 0.009 |
| Extreme (-30C) | | 704.5040 | 715.4979 | 4.8 | 0.007 |
| | | | | | |
| 25C | 10% | 704.5040 | 715.4979 | -4.3 | -0.006 |
| | -10% | 704.5040 | 715.4979 | 4.6 | 0.006 |
| | End Point | 704.5040 | 715.4979 | 3.8 | 0.005 |

16QAM, (10MHz BANDWIDTH)

| Limit | | 704 | 716 | Delta (Hz) | Frequency Stability (ppm) |
|----------------|-----------|----------------------|-----------------------|------------|---------------------------|
| Condition | | F low @ -13dBm (MHz) | F high @ -13dBm (MHz) | | |
| Temperature | Voltage | | | | |
| Normal (25C) | Normal | 704.5049 | 715.4958 | | |
| Extreme (50C) | | 704.5049 | 715.4958 | 4.0 | 0.006 |
| Extreme (40C) | | 704.5049 | 715.4958 | 3.0 | 0.004 |
| Extreme (30C) | | 704.5049 | 715.4958 | -4.8 | -0.007 |
| Extreme (10C) | | 704.5049 | 715.4958 | 4.3 | 0.006 |
| Extreme (0C) | | 704.5049 | 715.4958 | 4.7 | 0.007 |
| Extreme (-10C) | | 704.5049 | 715.4958 | 5.6 | 0.008 |
| Extreme (-20C) | | 704.5049 | 715.4958 | 5.8 | 0.008 |
| Extreme (-30C) | | 704.5049 | 715.4958 | 4.9 | 0.007 |
| | | | | | |
| 25C | 10% | 704.5049 | 715.4958 | -4.4 | -0.006 |
| | -10% | 704.5049 | 715.4958 | -5.3 | -0.007 |
| | End Point | 704.5049 | 715.4958 | -4.1 | -0.006 |

8.4.6. LTE BAND 25

QPSK, (20MHz BANDWIDTH)

| Limit | | 1850 | 1915 | Delta (Hz) | Frequency Stability (ppm) |
|----------------|-----------|----------------------|-----------------------|------------|---------------------------|
| Condition | | F low @ -13dBm (MHz) | F high @ -13dBm (MHz) | | |
| Temperature | Voltage | | | | |
| Normal (25C) | Normal | 1851.0171 | 1913.9832 | | |
| Extreme (50C) | | 1851.0172 | 1913.9832 | 15.0 | 0.008 |
| Extreme (40C) | | 1851.0172 | 1913.9832 | 17.7 | 0.009 |
| Extreme (30C) | | 1851.0172 | 1913.9832 | 14.4 | 0.008 |
| Extreme (10C) | | 1851.0172 | 1913.9832 | 18.4 | 0.010 |
| Extreme (0C) | | 1851.0172 | 1913.9832 | 14.7 | 0.008 |
| Extreme (-10C) | | 1851.0172 | 1913.9832 | 17.5 | 0.009 |
| Extreme (-20C) | | 1851.0172 | 1913.9832 | 15.8 | 0.008 |
| Extreme (-30C) | | 1851.0172 | 1913.9832 | 19.0 | 0.010 |
| | | | | | |
| 25C | 10% | 1851.0172 | 1913.9832 | 16.6 | 0.009 |
| | -10% | 1851.0172 | 1913.9832 | 15.8 | 0.008 |
| | End Point | 1851.0172 | 1913.9832 | 16.9 | 0.009 |

16QAM, (20MHz BANDWIDTH)

| Limit | | 1850 | 1915 | Delta (Hz) | Frequency Stability (ppm) |
|----------------|-----------|----------------------|-----------------------|------------|---------------------------|
| Condition | | F low @ -13dBm (MHz) | F high @ -13dBm (MHz) | | |
| Temperature | Voltage | | | | |
| Normal (25C) | Normal | 1851.0217 | 1913.9806 | | |
| Extreme (50C) | | 1851.0217 | 1913.9806 | 14.0 | 0.007 |
| Extreme (40C) | | 1851.0217 | 1913.9806 | 15.4 | 0.008 |
| Extreme (30C) | | 1851.0217 | 1913.9806 | 14.6 | 0.008 |
| Extreme (10C) | | 1851.0217 | 1913.9806 | 15.4 | 0.008 |
| Extreme (0C) | | 1851.0217 | 1913.9806 | 14.3 | 0.008 |
| Extreme (-10C) | | 1851.0217 | 1913.9806 | 16.6 | 0.009 |
| Extreme (-20C) | | 1851.0217 | 1913.9806 | 14.9 | 0.008 |
| Extreme (-30C) | | 1851.0217 | 1913.9806 | 16.2 | 0.009 |
| | | | | | |
| 25C | 10% | 1851.0217 | 1913.9806 | 15.4 | 0.008 |
| | -10% | 1851.0217 | 1913.9806 | 14.7 | 0.008 |
| | End Point | 1851.0217 | 1913.9806 | 15.9 | 0.008 |

8.4.7. LTE BAND 26

QPSK, (10MHz BANDWIDTH)

| Limit | | 814 | 849 | Delta (Hz) | Frequency Stability (ppm) |
|----------------|-----------|----------------------|-----------------------|------------|---------------------------|
| Condition | | F low @ -13dBm (MHz) | F high @ -13dBm (MHz) | | |
| Temperature | Voltage | | | | |
| Normal (25C) | Normal | 818.9355 | 823.6719 | | |
| Extreme (50C) | | 818.9355 | 823.6719 | 5.7 | 0.007 |
| Extreme (40C) | | 818.9355 | 823.6719 | 5.6 | 0.007 |
| Extreme (30C) | | 818.9355 | 823.6719 | 5.4 | 0.006 |
| Extreme (10C) | | 818.9355 | 823.6719 | 5.1 | 0.006 |
| Extreme (0C) | | 818.9355 | 823.6719 | 6.3 | 0.008 |
| Extreme (-10C) | | 818.9355 | 823.6719 | 5.7 | 0.007 |
| Extreme (-20C) | | 818.9355 | 823.6719 | 5.8 | 0.007 |
| Extreme (-30C) | | 818.9355 | 823.6719 | 7.9 | 0.010 |
| | | | | | |
| 25C | 10% | 818.9354 | 823.6719 | -5.5 | -0.007 |
| | -10% | 818.9355 | 823.6719 | 6.0 | 0.007 |
| | End Point | 818.9355 | 823.6719 | 5.3 | 0.006 |

16QAM, (10MHz BANDWIDTH)

| Limit | | 814 | 849 | Delta (Hz) | Frequency Stability (ppm) |
|----------------|-----------|----------------------|-----------------------|------------|---------------------------|
| Condition | | F low @ -13dBm (MHz) | F high @ -13dBm (MHz) | | |
| Temperature | Voltage | | | | |
| Normal (25C) | Normal | 818.9353 | 823.6718 | | |
| Extreme (50C) | | 818.9353 | 823.6719 | 6.8 | 0.008 |
| Extreme (40C) | | 818.9353 | 823.6719 | 5.3 | 0.006 |
| Extreme (30C) | | 818.9353 | 823.6719 | 6.7 | 0.008 |
| Extreme (10C) | | 818.9353 | 823.6719 | 5.4 | 0.007 |
| Extreme (0C) | | 818.9353 | 823.6719 | 6.4 | 0.008 |
| Extreme (-10C) | | 818.9353 | 823.6719 | 5.5 | 0.007 |
| Extreme (-20C) | | 818.9353 | 823.6719 | 7.8 | 0.009 |
| Extreme (-30C) | | 818.9353 | 823.6719 | 6.6 | 0.008 |
| | | | | | |
| 25C | 10% | 818.9353 | 823.6719 | 6.9 | 0.008 |
| | -10% | 818.9353 | 823.6719 | 6.3 | 0.008 |
| | End Point | 818.9353 | 823.6719 | 5.2 | 0.006 |

8.4.8. LTE BAND 41

QPSK, (10MHz BANDWIDTH)

| Limit | | 2496 | 2690 | Delta (Hz) | Frequency Stability (ppm) |
|----------------|-----------|----------------------|-----------------------|------------|---------------------------|
| Condition | | F low @ -13dBm (MHz) | F high @ -13dBm (MHz) | | |
| Temperature | Voltage | | | | |
| Normal (25C) | Normal | 2496.9413 | 2689.0668 | | |
| Extreme (50C) | | 2496.9413 | 2689.0669 | 24.3 | 0.009 |
| Extreme (40C) | | 2496.9413 | 2689.0669 | 25.4 | 0.010 |
| Extreme (30C) | | 2496.9413 | 2689.0669 | 31.4 | 0.012 |
| Extreme (10C) | | 2496.9413 | 2689.0669 | 26.9 | 0.010 |
| Extreme (0C) | | 2496.9413 | 2689.0669 | 25.4 | 0.010 |
| Extreme (-10C) | | 2496.9413 | 2689.0669 | 23.7 | 0.009 |
| Extreme (-20C) | | 2496.9413 | 2689.0669 | 24.3 | 0.009 |
| Extreme (-30C) | | 2496.9413 | 2689.0669 | 22.2 | 0.009 |
| | | | | | |
| 25C | 10% | 2496.9413 | 2689.0669 | 25.3 | 0.010 |
| | -10% | 2496.9413 | 2689.0669 | 23.3 | 0.009 |
| | End Point | 2496.9413 | 2689.0669 | 22.8 | 0.009 |

16QAM, (10MHz BANDWIDTH)

| Limit | | 2496 | 2690 | Delta (Hz) | Frequency Stability (ppm) |
|----------------|-----------|----------------------|-----------------------|------------|---------------------------|
| Condition | | F low @ -13dBm (MHz) | F high @ -13dBm (MHz) | | |
| Temperature | Voltage | | | | |
| Normal (25C) | Normal | 2496.9442 | 2689.0545 | | |
| Extreme (50C) | | 2496.9443 | 2689.0546 | 27.2 | 0.010 |
| Extreme (40C) | | 2496.9443 | 2689.0546 | 30.1 | 0.012 |
| Extreme (30C) | | 2496.9443 | 2689.0546 | 30.0 | 0.012 |
| Extreme (10C) | | 2496.9443 | 2689.0546 | 29.3 | 0.011 |
| Extreme (0C) | | 2496.9443 | 2689.0546 | 26.9 | 0.010 |
| Extreme (-10C) | | 2496.9443 | 2689.0546 | 26.6 | 0.010 |
| Extreme (-20C) | | 2496.9443 | 2689.0546 | 26.6 | 0.010 |
| Extreme (-30C) | | 2496.9443 | 2689.0546 | 22.0 | 0.008 |
| | | | | | |
| 25C | 10% | 2496.9443 | 2689.0546 | 22.2 | 0.009 |
| | -10% | 2496.9443 | 2689.0546 | 26.4 | 0.010 |
| | End Point | 2496.9443 | 2689.0546 | 26.3 | 0.010 |

9. RADIATED TEST RESULTS

9.1. RADIATED POWER (ERP & EIRP)

RULE PART(S)

FCC: §2.1046, §22.913, §24.232 and §27.50

LIMITS:

22.913(a) - The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

27.50 (c) (10) the following power and antenna height requirements apply to stations transmitting in the 698–746 MHz band, the portable stations (hand-held devices) are limited to 3 watts ERP.

27.50 (b)(10) Portable stations (hand-held devices) transmitting in the 746–757 MHz, 758–763 MHz, 776–793 MHz, and 805–806 MHz bands are limited to 3 watts ERP.

27.50 (d)(4) The following power and antenna height requirements apply to stations transmitting in the 1710–1755 MHz and 2110–2155 MHz bands: Fixed, mobile, and portable (hand-held) stations operating in the 1710–1755 MHz band are limited to 1 watt EIRP.

TEST PROCEDURE

ANSI / TIA / EIA 603C Clause 2.2.17

KDB 971168 v02r01 RF power output using broadband peak and average power meter method.
KDB 971168 D01 Power Meas License Digital Systems v02r01, "Measurement Guidance for Certification of Licensed Digital Transmitters"

MODES TESTED

- LTE Band 2
- LTE Band 4
- LTE Band 5
- LTE Band 13
- LTE Band 17
- LTE Band 25
- LTE Band 26
- LTE Band 41

RESULTS

EIRP POWER FOR LTE BAND 2 (1.4MHZ BANDWIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP (Average) | |
|-------------------|------------|---------|----------------|--------|
| | | | dBm | mW |
| 1.4MHz Band QPSK | 6/0 | 1850.7 | 24.32 | 270.40 |
| | | 1880.0 | 24.70 | 295.12 |
| | | 1909.3 | 24.43 | 277.33 |
| 1.4MHz Band 16QAM | 6/0 | 1850.7 | 23.71 | 234.96 |
| | | 1880.0 | 23.68 | 233.35 |
| | | 1909.3 | 23.14 | 206.06 |

EIRP POWER FOR LTE BAND 2 (3.0MHZ BANDWIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP (Average) | |
|-------------------|------------|---------|----------------|--------|
| | | | dBm | mW |
| 3.0MHz Band QPSK | 15/0 | 1851.5 | 24.84 | 304.79 |
| | | 1880.0 | 23.23 | 210.38 |
| | | 1908.5 | 23.86 | 243.22 |
| 3.0MHz Band 16QAM | 15/0 | 1851.5 | 23.61 | 229.61 |
| | | 1880.0 | 22.10 | 162.18 |
| | | 1908.5 | 22.74 | 187.93 |

EIRP POWER FOR LTE BAND 2 (5.0MHZ BANDWIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP (Average) | |
|-------------------|------------|---------|----------------|--------|
| | | | dBm | mW |
| 5.0MHz Band QPSK | 25/0 | 1852.5 | 24.25 | 266.07 |
| | | 1880.0 | 24.72 | 296.48 |
| | | 1907.5 | 24.33 | 271.02 |
| 5.0MHz Band 16QAM | 25/0 | 1852.5 | 23.37 | 217.27 |
| | | 1880.0 | 23.90 | 245.47 |
| | | 1907.5 | 23.24 | 210.86 |

EIRP POWER FOR LTE BAND 2 (10.0MHZ BANDWIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP (Average) | |
|--------------------|------------|---------|----------------|--------|
| | | | dBm | mW |
| 10.0MHz Band QPSK | 50/0 | 1855.0 | 24.67 | 293.09 |
| | | 1880.0 | 24.80 | 302.00 |
| | | 1905.0 | 24.93 | 311.17 |
| 10.0MHz Band 16QAM | 50/0 | 1855.0 | 23.77 | 238.23 |
| | | 1880.0 | 23.99 | 250.61 |
| | | 1905.0 | 24.29 | 268.53 |

EIRP POWER FOR LTE BAND 2 (15.0MHZ BANDWIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP (Average) | |
|------------------|------------|---------|----------------|--------|
| | | | dBm | mW |
| 15MHz Band QPSK | 75/0 | 1857.5 | 24.25 | 266.07 |
| | | 1880.0 | 24.63 | 290.40 |
| | | 1902.5 | 24.81 | 302.69 |
| 15MHz Band 16QAM | 75/0 | 1857.5 | 23.08 | 203.24 |
| | | 1880.0 | 23.40 | 218.78 |
| | | 1902.5 | 23.93 | 247.17 |

EIRP POWER FOR LTE BAND 2 (20.0MHZ BANDWIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP (Average) | |
|-------------------|------------|---------|----------------|--------|
| | | | dBm | mW |
| 20.0MHz Band QPSK | 100/0 | 1860.0 | 24.61 | 289.07 |
| | | 1880.0 | 24.30 | 269.15 |
| | | 1900.0 | 24.47 | 279.90 |
| 20MHz Band 16QAM | 100/0 | 1860.0 | 23.27 | 212.32 |
| | | 1880.0 | 23.40 | 218.78 |
| | | 1900.0 | 23.34 | 215.77 |

EIRP POWER FOR LTE BAND 4 (1.4MHZ BANDWIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP(Average) | |
|--------------------|------------|---------|---------------|--------|
| | | | dBm | mW |
| 1.4 MHZ BAND QPSK | 6/0 | 1710.7 | 24.36 | 272.90 |
| | | 1732.5 | 24.53 | 283.79 |
| | | 1754.3 | 24.23 | 264.85 |
| 1.4 MHZ BAND 16QAM | 6/0 | 1710.7 | 23.38 | 217.77 |
| | | 1732.5 | 23.58 | 228.03 |
| | | 1754.3 | 23.33 | 215.28 |

EIRP POWER FOR LTE BAND 4 (3.0MHZ BANDWIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP(Average) | |
|--------------------|------------|---------|---------------|--------|
| | | | dBm | mW |
| 3.0 MHZ BAND QPSK | 15/0 | 1711.5 | 24.28 | 267.92 |
| | | 1732.5 | 24.38 | 274.16 |
| | | 1753.5 | 24.53 | 283.79 |
| 3.0 MHZ BAND 16QAM | 15/0 | 1711.5 | 23.36 | 216.77 |
| | | 1732.5 | 23.46 | 221.82 |
| | | 1753.5 | 23.13 | 205.59 |

EIRP POWER FOR LTE BAND 4 (5.0MHZ BANDWIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP(Average) | |
|--------------------|------------|---------|---------------|--------|
| | | | dBm | mW |
| 5.0 MHZ BAND QPSK | 25/0 | 1712.5 | 24.46 | 279.25 |
| | | 1732.5 | 24.22 | 264.24 |
| | | 1752.5 | 24.73 | 297.17 |
| 5.0 MHZ BAND 16QAM | 25/0 | 1712.5 | 23.42 | 219.79 |
| | | 1732.5 | 23.38 | 217.77 |
| | | 1752.5 | 23.74 | 236.59 |

EIRP POWER FOR LTE BAND 4 (10.0MHZ BANDWIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP(Average) | |
|---------------------|------------|---------|---------------|--------|
| | | | dBm | mW |
| 10.0 MHZ BAND QPSK | 50/0 | 1715.0 | 24.82 | 303.39 |
| | | 1732.5 | 24.25 | 266.07 |
| | | 1750.0 | 24.00 | 251.19 |
| 10.0 MHZ BAND 16QAM | 50/0 | 1715.0 | 23.80 | 239.88 |
| | | 1732.5 | 23.26 | 211.84 |
| | | 1750.0 | 23.07 | 202.77 |

EIRP POWER FOR LTE BAND 4 (15.0MHZ BANDWIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP(Average) | |
|---------------------|------------|---------|---------------|--------|
| | | | dBm | mW |
| 15.0 MHZ BAND QPSK | 75/0 | 1717.5 | 24.26 | 266.69 |
| | | 1732.5 | 24.15 | 260.02 |
| | | 1747.5 | 24.64 | 291.07 |
| 15.0 MHZ BAND 16QAM | 75/0 | 1717.5 | 23.40 | 218.78 |
| | | 1732.5 | 23.05 | 201.84 |
| | | 1747.5 | 23.52 | 224.91 |

EIRP POWER FOR LTE BAND 4 (20.0MHZ BANDWIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP(Average) | |
|---------------------|------------|---------|---------------|--------|
| | | | dBm | mW |
| 20.0 MHZ BAND QPSK | 100/0 | 1720.0 | 24.29 | 268.53 |
| | | 1732.5 | 24.48 | 280.54 |
| | | 1745.0 | 24.75 | 298.54 |
| 20.0 MHZ BAND 16QAM | 100/0 | 1720.0 | 23.25 | 211.35 |
| | | 1732.5 | 23.19 | 208.45 |
| | | 1745.0 | 23.86 | 243.22 |

EIRP POWER FOR LTE BAND 5 (1.4MHZ BANDWIDTH)

| Mode | RB/RB SIZE | f (MHz) | ERP (Average) | |
|-------------------|------------|---------|---------------|--------|
| | | | dBm | mW |
| 1.4MHz Band QPSK | 1/0 | 824.7 | 22.52 | 178.65 |
| | | 836.5 | 21.93 | 155.96 |
| | | 848.3 | 21.80 | 151.36 |
| 1.4MHz Band 16QAM | 1/0 | 824.7 | 21.72 | 148.59 |
| | | 836.5 | 20.91 | 123.31 |
| | | 848.3 | 20.80 | 120.23 |

EIRP POWER FOR LTE BAND 5 (3.0MHZ BANDWIDTH)

| Mode | RB/RB SIZE | f (MHz) | ERP (Average) | |
|--------------------|------------|---------|---------------|--------|
| | | | dBm | mW |
| 3.0 MHZ BAND QPSK | 1/0 | 825.5 | 22.22 | 166.72 |
| | | 836.5 | 21.58 | 143.88 |
| | | 847.5 | 21.72 | 148.59 |
| 3.0 MHZ BAND 16QAM | 1/0 | 825.5 | 21.32 | 135.52 |
| | | 836.5 | 20.63 | 115.61 |
| | | 847.5 | 20.82 | 120.78 |

EIRP POWER FOR LTE BAND 5 (5.0MHZ BANDWIDTH)

| Mode | RB/RB SIZE | f (MHz) | ERP (Average) | |
|-----------------|------------|---------|---------------|--------|
| | | | dBm | mW |
| 5MHz Band QPSK | 1/0 | 826.5 | 22.49 | 177.42 |
| | | 836.5 | 22.43 | 174.98 |
| | | 846.5 | 22.32 | 170.61 |
| 5MHz Band 16QAM | 1/0 | 826.5 | 21.79 | 151.01 |
| | | 836.5 | 21.53 | 142.23 |
| | | 846.5 | 21.42 | 138.68 |

EIRP POWER FOR LTE BAND 5 (10.0MHZ BANDWIDTH)

| Mode | RB/RB SIZE | f (MHz) | ERP (Average) | |
|---------------------|------------|---------|---------------|--------|
| | | | dBm | mW |
| 10.0 MHZ BAND QPSK | 1/0 | 829.0 | 22.32 | 170.61 |
| | | 836.5 | 22.03 | 159.59 |
| | | 844.0 | 22.62 | 182.81 |
| 10.0 MHZ BAND 16QAM | 1/0 | 829.0 | 21.59 | 144.21 |
| | | 836.5 | 21.23 | 132.74 |
| | | 844.0 | 21.84 | 152.76 |

EIRP POWER FOR LTE BAND 13 (5.0MHZ BANDWIDTH)

| Mode | RB/RB SIZE | f (MHz) | ERP (Average) | |
|--------------------|------------|---------|----------------|--------|
| | | | dBm | mW |
| 5.0 MHZ BAND QPSK | 1/0 | 779.5 | 21.46 | 139.96 |
| | | 782.0 | 21.54 | 142.56 |
| | | 784.5 | 21.88 | 154.17 |
| 5.0 MHZ BAND 16QAM | 1/0 | 779.5 | 20.55 | 113.50 |
| | | 782.0 | 20.63 | 115.61 |
| | | 784.5 | 20.97 | 125.03 |

EIRP POWER FOR LTE BAND 13 (10.0MHZ BANDWIDTH)

| Mode | RB/RB SIZE | f (MHz) | ERP (Average) | |
|-------------------|------------|---------|---------------|--------|
| | | | dBm | mW |
| 10 MHZ BAND QPSK | 1/0 | 782.0 | 21.94 | 156.31 |
| 10 MHz BAND 16QAM | 1/0 | | 21.04 | 127.06 |

EIRP POWER FOR LTE BAND 17 (5.0MHZ BANDWIDTH)

| Mode | RB/RB SIZE | f (MHz) | ERP (Average) | |
|-----------------|------------|---------|---------------|--------|
| | | | dBm | mW |
| 5MHz Band QPSK | 1/0 | 706.5 | 21.63 | 145.55 |
| | | 710.0 | 21.56 | 143.22 |
| | | 713.5 | 21.15 | 130.32 |
| 5MHz Band 16QAM | 1/0 | 706.5 | 20.53 | 112.98 |
| | | 710.0 | 20.64 | 115.88 |
| | | 713.5 | 20.24 | 105.68 |

EIRP POWER FOR LTE BAND 17 (10.0MHZ BANDWIDTH)

| Mode | RB/RB SIZE | f (MHz) | ERP (Average) | |
|---------------------|------------|---------|---------------|--------|
| | | | dBm | mW |
| 10.0 MHZ BAND QPSK | 1/0 | 709.0 | 21.48 | 140.60 |
| | | 710.0 | 21.36 | 136.77 |
| | | 711.0 | 21.27 | 133.97 |
| 10.0 MHZ BAND 16QAM | 1/0 | 709.0 | 20.48 | 111.69 |
| | | 710.0 | 20.46 | 111.17 |
| | | 711.0 | 20.33 | 107.89 |

EIRP POWER FOR LTE BAND 25 (1.4MHZ BANDWIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP(Average) | |
|--------------------|------------|---------|---------------|--------|
| | | | dBm | mW |
| 1.4 MHZ BAND QPSK | 6/0 | 1850.7 | 23.77 | 238.23 |
| | | 1880.0 | 23.70 | 234.42 |
| | | 1914.3 | 24.84 | 304.79 |
| 1.4 MHZ BAND 16QAM | 6/0 | 1850.7 | 22.97 | 198.15 |
| | | 1880.0 | 23.00 | 199.53 |
| | | 1914.3 | 24.04 | 253.51 |

EIRP POWER FOR LTE BAND 25 (3.0MHZ BANDWIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP(Average) | |
|--------------------|------------|---------|---------------|--------|
| | | | dBm | mW |
| 3.0 MHZ BAND QPSK | 15/0 | 1851.5 | 23.50 | 223.87 |
| | | 1880.0 | 23.44 | 220.80 |
| | | 1913.5 | 24.71 | 295.80 |
| 3.0 MHZ BAND 16QAM | 15/0 | 1851.5 | 22.40 | 173.78 |
| | | 1880.0 | 22.38 | 172.98 |
| | | 1913.5 | 23.66 | 232.27 |

EIRP POWER FOR LTE BAND 25 (5.0MHZ BANDWIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP(Average) | |
|--------------------|------------|---------|---------------|--------|
| | | | dBm | mW |
| 5.0 MHZ BAND QPSK | 25/0 | 1852.5 | 23.68 | 233.35 |
| | | 1880.0 | 23.52 | 224.91 |
| | | 1912.5 | 24.89 | 308.32 |
| 5.0 MHZ BAND 16QAM | 25/0 | 1852.5 | 22.56 | 180.30 |
| | | 1880.0 | 22.28 | 169.04 |
| | | 1912.5 | 23.87 | 243.78 |

EIRP POWER FOR LTE BAND 25 (10.0MHZ BANDWIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP(Average) | |
|---------------------|------------|---------|---------------|--------|
| | | | dBm | mW |
| 10.0 MHZ BAND QPSK | 50/0 | 1855.0 | 24.23 | 264.85 |
| | | 1880.0 | 23.67 | 232.81 |
| | | 1910.0 | 24.57 | 286.42 |
| 10.0 MHZ BAND 16QAM | 50/0 | 1855.0 | 23.22 | 209.89 |
| | | 1880.0 | 22.63 | 183.23 |
| | | 1910.0 | 23.50 | 223.87 |

EIRP POWER FOR LTE BAND 25 (15.0MHZ BANDWIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP(Average) | |
|---------------------|------------|---------|---------------|--------|
| | | | dBm | mW |
| 15.0 MHZ BAND QPSK | 75/0 | 1857.5 | 24.57 | 286.42 |
| | | 1880.0 | 23.20 | 208.93 |
| | | 1907.5 | 23.04 | 201.37 |
| 15.0 MHZ BAND 16QAM | 75/0 | 1857.5 | 23.67 | 232.81 |
| | | 1880.0 | 22.30 | 169.82 |
| | | 1907.5 | 22.24 | 167.49 |

EIRP POWER FOR LTE BAND 25 (20.0MHZ BANDWIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP(Average) | |
|---------------------|------------|---------|---------------|--------|
| | | | dBm | mW |
| 20.0 MHZ BAND QPSK | 100/0 | 1860.0 | 24.47 | 279.90 |
| | | 1880.0 | 24.00 | 251.19 |
| | | 1905.0 | 24.24 | 265.46 |
| 20.0 MHZ BAND 16QAM | 100/0 | 1860.0 | 23.67 | 232.81 |
| | | 1880.0 | 23.20 | 208.93 |
| | | 1905.0 | 23.34 | 215.77 |

EIRP POWER FOR LTE BAND 26 (3.0MHZ BANDWIDTH)

| Mode | RB/RB SIZE | f (MHz) | ERP(Average) | |
|--------------------|------------|---------|--------------|--------|
| | | | dBm | mW |
| 3.0 MHZ BAND QPSK | 1/0 | 820.3 | 21.32 | 135.52 |
| | | 821.3 | 20.91 | 123.31 |
| | | 822.3 | 21.21 | 132.13 |
| 3.0 MHZ BAND 16QAM | 1/0 | 820.3 | 20.39 | 109.40 |
| | | 821.3 | 20.03 | 100.69 |
| | | 822.3 | 20.26 | 106.17 |

EIRP POWER FOR LTE BAND 26 (5.0MHZ BANDWIDTH)

| Mode | RB/RB SIZE | f (MHz) | ERP(Average) | |
|--------------------|------------|---------|--------------|--------|
| | | | dBm | mW |
| 5.0 MHZ BAND QPSK | 1/0 | 821.3 | 21.47 | 140.28 |
| 5.0 MHZ BAND 16QAM | 1/0 | 821.3 | 20.55 | 113.50 |

EIRP POWER FOR LTE BAND 26 (10.0MHZ BANDWIDTH)

| Mode | RB/RB SIZE | f (MHz) | ERP(Average) | |
|---------------------|------------|---------|--------------|--------|
| | | | dBm | mW |
| 10.0 MHZ BAND QPSK | 1/0 | 819.0 | 21.59 | 144.21 |
| 10.0 MHZ BAND 16QAM | 1/0 | 819.0 | 20.45 | 110.92 |

EIRP POWER FOR LTE BAND 41 (5.0MHZ BANDWIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP(Peak) | |
|--------------------|------------|---------|--------------|--------|
| | | | dBm | mW |
| 5.0 MHZ BAND QPSK | 25/0 | 2498.5 | 28.62 | 727.78 |
| | | 2593.0 | 28.97 | 788.86 |
| | | 2687.5 | 29.32 | 855.07 |
| 5.0 MHZ BAND 16QAM | 25/0 | 24.98.5 | 27.95 | 623.73 |
| | | 2593.0 | 28.76 | 751.62 |
| | | 2687.5 | 29.00 | 794.33 |

EIRP POWER FOR LTE BAND 41 (10.0MHZ BANDWIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP(Peak) | |
|------------------------|------------|---------|--------------|--------|
| | | | dBm | mW |
| 10.0 MHZ BAND QPSK | 50/0 | 2501.0 | 29.17 | 826.04 |
| | | 2593.0 | 29.41 | 872.97 |
| | | 2685.0 | 29.28 | 847.23 |
| 10.0 MHZ BAND 16QAM | 50/0 | 2501.0 | 28.62 | 727.78 |
| | | 2593.0 | 28.49 | 706.32 |
| | | 2685.0 | 28.56 | 717.79 |

EIRP POWER FOR LTE BAND 41(15.0MHZ BANDWIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP(Peak) | |
|------------------------|------------|---------|--------------|--------|
| | | | dBm | mW |
| 15.0 MHZ BAND QPSK | 75/0 | 2503.5 | 29.95 | 988.55 |
| | | 2593.0 | 29.22 | 835.60 |
| | | 2682.5 | 29.86 | 968.28 |
| 15.0 MHZ BAND 16QAM | 75/0 | 2503.5 | 29.28 | 847.23 |
| | | 2593.0 | 29.01 | 796.16 |
| | | 2682.5 | 29.54 | 899.50 |

EIRP POWER FOR LTE BAND 41 (20.0MHZ BANDWIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP(Peak) | |
|------------------------|------------|---------|--------------|---------|
| | | | dBm | mW |
| 20.0 MHZ BAND QPSK | 100/0 | 2506.0 | 29.88 | 972.75 |
| | | 2593.0 | 29.75 | 944.06 |
| | | 2680.0 | 30.06 | 1013.91 |
| 20.0 MHZ BAND 16QAM | 100/0 | 2506.0 | 29.48 | 887.16 |
| | | 2593.0 | 28.98 | 790.68 |
| | | 2680.0 | 29.56 | 903.65 |

9.1.1. LTE BAND 2

QPSK EIRP POWER FOR LTE BAND 2 (1.4MHZ BANDWIDTH)

| High Frequency Fundamental Measurement UL Fremont Radiated Chamber E | | | | | | | | |
|--|---------------------|---------------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|
| Project #: | | 14U18207 | | | | | | |
| Date: | | 7/29/2014 | | | | | | |
| Test Engineer: | | O. Su | | | | | | |
| Configuration: | | EUT only | | | | | | |
| Mode: | | LTE Band 2 QPSK 1.4MHz BW | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T346 and Chamber E SMA Cables | | | | | | | | |
| Substitution: Horn T59 Substitution, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes |
| Low Ch | | | | | | | | |
| 1.851 | 16.7 | V | 0.98 | 8.61 | 24.32 | 33.0 | -8.7 | |
| 1.851 | 8.4 | H | 0.98 | 8.81 | 16.20 | 33.0 | -16.8 | |
| Mid Ch | | | | | | | | |
| 1.880 | 17.2 | V | 0.98 | 8.53 | 24.70 | 33.0 | -8.3 | |
| 1.880 | 7.6 | H | 0.98 | 8.68 | 15.29 | 33.0 | -17.7 | |
| High Ch | | | | | | | | |
| 1.909 | 17.0 | V | 0.98 | 8.45 | 24.43 | 33.0 | -8.6 | |
| 1.909 | 9.5 | H | 0.98 | 8.55 | 17.03 | 33.0 | -16.0 | |
| Rev. 10.24.13 | | | | | | | | |

16QAM EIRP POWER FOR LTE BAND 2 (1.4MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | |
|--|---------------------|----------------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|
| Project #: | | 14U18207 | | | | | | |
| Date: | | 7/29/2014 | | | | | | |
| Test Engineer: | | O. Su | | | | | | |
| Configuration: | | EUT only | | | | | | |
| Mode: | | LTE Band 2 16QAM 1.4MHz BW | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T346, and Chamber E SMA Cables | | | | | | | | |
| Substitution: Horn T59 Substitution, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes |
| Low Ch | | | | | | | | |
| 1.851 | 16.1 | V | 0.98 | 8.61 | 23.71 | 33.0 | -9.3 | |
| 1.851 | 7.4 | H | 0.98 | 8.81 | 15.27 | 33.0 | -17.7 | |
| Mid Ch | | | | | | | | |
| 1.880 | 16.1 | V | 0.98 | 8.53 | 23.68 | 33.0 | -9.3 | |
| 1.880 | 6.6 | H | 0.98 | 8.68 | 14.26 | 33.0 | -18.7 | |
| High Ch | | | | | | | | |
| 1.909 | 15.7 | V | 0.98 | 8.45 | 23.14 | 33.0 | -9.9 | |
| 1.909 | 8.8 | H | 0.98 | 8.55 | 16.35 | 33.0 | -16.6 | |
| Rev. 10.24.13 | | | | | | | | |

QPSK EIRP POWER FOR LTE BAND 2 (3.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | |
|--|---------------------|-------------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|
| Project #: | | 14U18207 | | | | | | |
| Date: | | 7/29/2014 | | | | | | |
| Test Engineer: | | O. Su | | | | | | |
| Configuration: | | EUT only | | | | | | |
| Mode: | | LTE Band 2 QPSK 3MHz BW | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T346, and Chamber E SMA Cables | | | | | | | | |
| Substitution: Horn T59 Substitution, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes |
| Low Ch | | | | | | | | |
| 1.852 | 17.2 | V | 0.98 | 8.61 | 24.84 | 33.0 | -8.2 | |
| 1.852 | 11.3 | H | 0.98 | 8.81 | 19.12 | 33.0 | -13.9 | |
| Mid Ch | | | | | | | | |
| 1.880 | 15.7 | V | 0.98 | 8.53 | 23.23 | 33.0 | -9.8 | |
| 1.880 | 11.9 | H | 0.98 | 8.68 | 19.63 | 33.0 | -13.4 | |
| High Ch | | | | | | | | |
| 1.909 | 16.4 | V | 0.98 | 8.45 | 23.86 | 33.0 | -9.1 | |
| 1.909 | 12.6 | H | 0.98 | 8.55 | 20.16 | 33.0 | -12.8 | |
| Rev. 10.24.13 | | | | | | | | |

16QAM EIRP POWER FOR LTE BAND 2 (3.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | |
|--|---------------------|--------------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|
| Project #: | | 14U18207 | | | | | | |
| Date: | | 7/29/2014 | | | | | | |
| Test Engineer: | | O. Su | | | | | | |
| Configuration: | | EUT only | | | | | | |
| Mode: | | LTE Band 2 16QAM 3MHz BW | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T346, and Chamber E SMA Cables | | | | | | | | |
| Substitution: Horn T59 Substitution, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes |
| Low Ch | | | | | | | | |
| 1.852 | 16.0 | V | 0.98 | 8.61 | 23.61 | 33.0 | -9.4 | |
| 1.852 | 10.5 | H | 0.98 | 8.81 | 18.35 | 33.0 | -14.6 | |
| Mid Ch | | | | | | | | |
| 1.880 | 14.6 | V | 0.98 | 8.53 | 22.10 | 33.0 | -10.9 | |
| 1.880 | 11.4 | H | 0.98 | 8.68 | 19.10 | 33.0 | -13.9 | |
| High Ch | | | | | | | | |
| 1.909 | 15.3 | V | 0.98 | 8.45 | 22.74 | 33.0 | -10.3 | |
| 1.909 | 11.2 | H | 0.98 | 8.55 | 18.81 | 33.0 | -14.2 | |
| Rev. 10.24.13 | | | | | | | | |

QPSK EIRP POWER FOR LTE BAND 2 (5.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | |
|--|---------------------|-------------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|
| Project #: | | 14U18207 | | | | | | |
| Date: | | 7/29/2014 | | | | | | |
| Test Engineer: | | O.Su | | | | | | |
| Configuration: | | EUT only | | | | | | |
| Mode: | | LTE Band 2 QPSK 5MHz BW | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T346, and Chamber E SMA Cables | | | | | | | | |
| Substitution: Horn T59 Substitution, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes |
| Low Ch | | | | | | | | |
| 1.853 | 16.6 | V | 0.98 | 8.61 | 24.25 | 33.0 | -8.8 | |
| 1.853 | 10.4 | H | 0.98 | 8.81 | 18.23 | 33.0 | -14.8 | |
| Mid Ch | | | | | | | | |
| 1.880 | 17.2 | V | 0.98 | 8.53 | 24.72 | 33.0 | -8.3 | |
| 1.880 | 11.1 | H | 0.98 | 8.68 | 18.83 | 33.0 | -14.2 | |
| High Ch | | | | | | | | |
| 1.908 | 16.9 | V | 0.98 | 8.45 | 24.33 | 33.0 | -8.7 | |
| 1.908 | 11.6 | H | 0.98 | 8.55 | 19.13 | 33.0 | -13.9 | |
| Rev. 10.24.13 | | | | | | | | |

16QAM EIRP POWER FOR LTE BAND 2 (5.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | |
|--|---------------------|--------------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|
| Project #: | | 14U18207 | | | | | | |
| Date: | | 7/29/2014 | | | | | | |
| Test Engineer: | | T Wang | | | | | | |
| Configuration: | | EUT only | | | | | | |
| Mode: | | LTE Band 2 16QAM 5MHz BW | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T346, and Chamber E SMA Cables | | | | | | | | |
| Substitution: Horn T59 Substitution, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes |
| Low Ch | | | | | | | | |
| 1.853 | 15.7 | V | 0.98 | 8.61 | 23.37 | 33.0 | -9.6 | |
| 1.853 | 9.5 | H | 0.98 | 8.81 | 17.33 | 33.0 | -15.7 | |
| Mid Ch | | | | | | | | |
| 1.880 | 16.4 | V | 0.98 | 8.53 | 23.90 | 33.0 | -9.1 | |
| 1.880 | 10.2 | H | 0.98 | 8.68 | 17.93 | 33.0 | -15.1 | |
| High Ch | | | | | | | | |
| 1.908 | 15.8 | V | 0.98 | 8.45 | 23.24 | 33.0 | -9.8 | |
| 1.908 | 10.7 | H | 0.98 | 8.55 | 18.23 | 33.0 | -14.8 | |
| Rev. 10.24.13 | | | | | | | | |

QPSK EIRP POWER FOR LTE BAND 2 (10.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | |
|--|---------------------|--------------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|
| Project #: | | 14U18207 | | | | | | |
| Date: | | 7/29/2014 | | | | | | |
| Test Engineer: | | O. Su | | | | | | |
| Configuration: | | EUT only | | | | | | |
| Mode: | | LTE Band 2 QPSK 10MHz BW | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T346, and Chamber E SMA Cables | | | | | | | | |
| Substitution: Horn T59 Substitution, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes |
| Low Ch | | | | | | | | |
| 1.855 | 17.0 | V | 0.98 | 8.61 | 24.67 | 33.0 | -8.3 | |
| 1.855 | 10.7 | H | 0.98 | 8.81 | 18.52 | 33.0 | -14.5 | |
| Mid Ch | | | | | | | | |
| 1.880 | 17.3 | V | 0.98 | 8.53 | 24.80 | 33.0 | -8.2 | |
| 1.880 | 12.1 | H | 0.98 | 8.68 | 19.82 | 33.0 | -13.2 | |
| High Ch | | | | | | | | |
| 1.905 | 17.5 | V | 0.98 | 8.45 | 24.93 | 33.0 | -8.1 | |
| 1.905 | 11.0 | H | 0.98 | 8.55 | 18.56 | 33.0 | -14.4 | |
| Rev. 10.24.13 | | | | | | | | |

16QAM EIRP POWER FOR LTE BAND 2 (10.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | |
|--|---------------------|---------------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|
| Project #: | | 14U18207 | | | | | | |
| Date: | | 7/29/2014 | | | | | | |
| Test Engineer: | | O. Su | | | | | | |
| Configuration: | | EUT only | | | | | | |
| Mode: | | LTE Band 2 16QAM 10MHz BW | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T346, and Chamber E SMA Cables | | | | | | | | |
| Substitution: Horn T59 Substitution, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes |
| Low Ch | | | | | | | | |
| 1.855 | 16.1 | V | 0.98 | 8.61 | 23.77 | 33.0 | -9.2 | |
| 1.855 | 9.5 | H | 0.98 | 8.81 | 17.36 | 33.0 | -15.6 | |
| Mid Ch | | | | | | | | |
| 1.880 | 16.4 | V | 0.98 | 8.53 | 23.99 | 33.0 | -9.0 | |
| 1.880 | 11.0 | H | 0.98 | 8.68 | 18.71 | 33.0 | -14.3 | |
| High Ch | | | | | | | | |
| 1.905 | 16.8 | V | 0.98 | 8.45 | 24.29 | 33.0 | -8.7 | |
| 1.905 | 9.8 | H | 0.98 | 8.55 | 17.41 | 33.0 | -15.6 | |
| Rev. 10.24.13 | | | | | | | | |

QPSK EIRP POWER FOR LTE BAND 2 (15.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | |
|--|---------------------|--------------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|
| Project #: | | 14U18207 | | | | | | |
| Date: | | 7/29/2014 | | | | | | |
| Test Engineer: | | O. Su | | | | | | |
| Configuration: | | EUT only | | | | | | |
| Mode: | | LTE Band 2 QPSK 15MHz BW | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T346, and Chamber E SMA Cables | | | | | | | | |
| Substitution: Horn T59 Substitution, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes |
| Low Ch | | | | | | | | |
| 1.858 | 16.6 | V | 0.98 | 8.61 | 24.25 | 33.0 | -8.8 | |
| 1.858 | 7.4 | H | 0.98 | 8.81 | 15.27 | 33.0 | -17.7 | |
| Mid Ch | | | | | | | | |
| 1.880 | 17.1 | V | 0.98 | 8.53 | 24.63 | 33.0 | -8.4 | |
| 1.880 | 10.1 | H | 0.98 | 8.68 | 17.77 | 33.0 | -15.2 | |
| High Ch | | | | | | | | |
| 1.903 | 17.3 | V | 0.98 | 8.45 | 24.81 | 33.0 | -8.2 | |
| 1.903 | 12.5 | H | 0.98 | 8.55 | 20.11 | 33.0 | -12.9 | |
| Rev. 10.24.13 | | | | | | | | |

16QAM EIRP POWER FOR LTE BAND 2 (15.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | |
|--|---------------------|---------------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|
| Project #: | | 14U18207 | | | | | | |
| Date: | | 7/29/2014 | | | | | | |
| Test Engineer: | | O. Su | | | | | | |
| Configuration: | | EUT only | | | | | | |
| Mode: | | LTE Band 2 16QAM 15MHz BW | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T346, and Chamber E SMA Cables | | | | | | | | |
| Substitution: Horn T59 Substitution, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes |
| Low Ch | | | | | | | | |
| 1.858 | 15.4 | V | 0.98 | 8.61 | 23.08 | 33.0 | -9.9 | |
| 1.858 | 6.3 | H | 0.98 | 8.81 | 14.16 | 33.0 | -18.8 | |
| Mid Ch | | | | | | | | |
| 1.880 | 15.9 | V | 0.98 | 8.53 | 23.40 | 33.0 | -9.6 | |
| 1.880 | 9.0 | H | 0.98 | 8.68 | 16.75 | 33.0 | -16.3 | |
| High Ch | | | | | | | | |
| 1.903 | 16.5 | V | 0.98 | 8.45 | 23.93 | 33.0 | -9.1 | |
| 1.903 | 11.7 | H | 0.98 | 8.55 | 19.23 | 33.0 | -13.8 | |
| Rev. 10.24.13 | | | | | | | | |

QPSK EIRP POWER FOR LTE BAND 2 (20.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | |
|--|---------------------|--------------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|
| Project #: | | 14U18207 | | | | | | |
| Date: | | 7/29/2014 | | | | | | |
| Test Engineer: | | T Wang | | | | | | |
| Configuration: | | EUT only | | | | | | |
| Mode: | | LTE Band 2 QPSK 20MHz BW | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T346, and Chamber E SMA Cables | | | | | | | | |
| Substitution: Horn T59 Substitution, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes |
| Low Ch | | | | | | | | |
| 1.860 | 17.0 | V | 0.98 | 8.61 | 24.61 | 33.0 | -8.4 | |
| 1.860 | 7.7 | H | 0.98 | 8.81 | 15.53 | 33.0 | -17.5 | |
| Mid Ch | | | | | | | | |
| 1.880 | 16.8 | V | 0.98 | 8.53 | 24.30 | 33.0 | -8.7 | |
| 1.880 | 8.5 | H | 0.98 | 8.68 | 16.23 | 33.0 | -16.8 | |
| High Ch | | | | | | | | |
| 1.900 | 17.0 | V | 0.98 | 8.45 | 24.47 | 33.0 | -8.5 | |
| 1.900 | 7.5 | H | 0.98 | 8.55 | 15.03 | 33.0 | -18.0 | |
| Rev. 10.24.13 | | | | | | | | |

16QAM EIRP POWER FOR LTE BAND 2 (20.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | |
|--|---------------------|---------------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|
| Project #: | | 14U18207 | | | | | | |
| Date: | | 7/29/2014 | | | | | | |
| Test Engineer: | | T Wang | | | | | | |
| Configuration: | | EUT only | | | | | | |
| Mode: | | LTE Band 2 16QAM 20MHz BW | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T346, and Chamber E SMA Cables | | | | | | | | |
| Substitution: Horn T59 Substitution, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes |
| Low Ch | | | | | | | | |
| 1.860 | 15.6 | V | 0.98 | 8.61 | 23.27 | 33.0 | -9.7 | |
| 1.860 | 6.9 | H | 0.98 | 8.81 | 14.73 | 33.0 | -18.3 | |
| Mid Ch | | | | | | | | |
| 1.880 | 15.9 | V | 0.98 | 8.53 | 23.40 | 33.0 | -9.6 | |
| 1.880 | 7.6 | H | 0.98 | 8.68 | 15.33 | 33.0 | -17.7 | |
| High Ch | | | | | | | | |
| 1.900 | 15.9 | V | 0.98 | 8.45 | 23.34 | 33.0 | -9.7 | |
| 1.900 | 6.8 | H | 0.98 | 8.55 | 14.33 | 33.0 | -18.7 | |
| Rev. 10.24.13 | | | | | | | | |

9.1.2. LTE BAND 4

QPSK EIRP POWER FOR LTE BAND 4 (1.4MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | |
|--|---------------------|---------------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|
| Project #: | | 14U18207 | | | | | | |
| Date: | | 7/30/2014 | | | | | | |
| Test Engineer: | | T Wang | | | | | | |
| Configuration: | | EUT only | | | | | | |
| Mode: | | LTE Band 4 QPSK 1.4MHz BW | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T346 and Chamber E SMA Cables | | | | | | | | |
| Substitution: Horn T59 Substitution, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes |
| Low Ch | | | | | | | | |
| 1.711 | 16.9 | V | 0.95 | 8.42 | 24.36 | 30.0 | -5.6 | |
| 1.711 | 12.1 | H | 0.95 | 8.60 | 19.79 | 30.0 | -10.2 | |
| Mid Ch | | | | | | | | |
| 1.733 | 17.0 | V | 0.95 | 8.50 | 24.53 | 30.0 | -5.5 | |
| 1.733 | 11.9 | H | 0.95 | 8.70 | 19.64 | 30.0 | -10.4 | |
| High Ch | | | | | | | | |
| 1.754 | 16.6 | V | 0.95 | 8.57 | 24.23 | 30.0 | -5.8 | |
| 1.754 | 12.2 | H | 0.95 | 8.80 | 20.08 | 30.0 | -9.9 | |
| Rev. 10.24.13 | | | | | | | | |

16QAM EIRP POWER FOR LTE BAND 4 (1.4MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | |
|--|---------------------|----------------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|
| Project #: | | 14U18207 | | | | | | |
| Date: | | 7/30/2014 | | | | | | |
| Test Engineer: | | T Wang | | | | | | |
| Configuration: | | EUT only | | | | | | |
| Mode: | | LTE Band 4 16QAM 1.4MHz BW | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T346, and Chamber E SMA Cables | | | | | | | | |
| Substitution: Horn T59 Substitution, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes |
| Low Ch | | | | | | | | |
| 1.711 | 15.9 | V | 0.95 | 8.42 | 23.38 | 30.0 | -6.6 | |
| 1.711 | 11.2 | H | 0.95 | 8.60 | 18.89 | 30.0 | -11.1 | |
| Mid Ch | | | | | | | | |
| 1.733 | 16.0 | V | 0.95 | 8.50 | 23.58 | 30.0 | -6.4 | |
| 1.733 | 10.9 | H | 0.95 | 8.70 | 18.64 | 30.0 | -11.4 | |
| High Ch | | | | | | | | |
| 1.754 | 15.7 | V | 0.95 | 8.57 | 23.33 | 30.0 | -6.7 | |
| 1.754 | 11.2 | H | 0.95 | 8.80 | 19.08 | 30.0 | -10.9 | |
| Rev. 10.24.13 | | | | | | | | |

QPSK EIRP POWER FOR LTE BAND 4 (3.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | |
|--|---------------------|-------------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|
| Project #: | | 14U18207 | | | | | | |
| Date: | | 7/30/2014 | | | | | | |
| Test Engineer: | | T Wang | | | | | | |
| Configuration: | | EUT only | | | | | | |
| Mode: | | LTE Band 4 QPSK 3MHz BW | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T346, and Chamber E SMA Cables | | | | | | | | |
| Substitution: Horn T59 Substitution, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes |
| Low Ch | | | | | | | | |
| 1.712 | 16.8 | V | 0.95 | 8.42 | 24.28 | 30.0 | -5.7 | |
| 1.712 | 11.9 | H | 0.95 | 8.60 | 19.59 | 30.0 | -10.4 | |
| Mid Ch | | | | | | | | |
| 1.733 | 16.8 | V | 0.95 | 8.50 | 24.38 | 30.0 | -5.6 | |
| 1.733 | 11.5 | H | 0.95 | 8.70 | 19.24 | 30.0 | -10.8 | |
| High Ch | | | | | | | | |
| 1.754 | 16.9 | V | 0.95 | 8.57 | 24.53 | 30.0 | -5.5 | |
| 1.754 | 12.2 | H | 0.95 | 8.80 | 20.06 | 30.0 | -9.9 | |
| Rev. 10.24.13 | | | | | | | | |

16QAM EIRP POWER FOR LTE BAND 4 (3.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | |
|--|---------------------|--------------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|
| Project #: | | 14U18207 | | | | | | |
| Date: | | 7/30/2014 | | | | | | |
| Test Engineer: | | T Wang | | | | | | |
| Configuration: | | EUT only | | | | | | |
| Mode: | | LTE Band 4 16QAM 3MHz BW | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T346, and Chamber E SMA Cables | | | | | | | | |
| Substitution: Horn T59 Substitution, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes |
| Low Ch | | | | | | | | |
| 1.712 | 15.9 | V | 0.95 | 8.42 | 23.36 | 30.0 | -6.6 | |
| 1.712 | 11.0 | H | 0.95 | 8.60 | 18.69 | 30.0 | -11.3 | |
| Mid Ch | | | | | | | | |
| 1.733 | 15.9 | V | 0.95 | 8.50 | 23.46 | 30.0 | -6.5 | |
| 1.733 | 10.6 | H | 0.95 | 8.70 | 18.34 | 30.0 | -11.7 | |
| High Ch | | | | | | | | |
| 1.754 | 15.5 | V | 0.95 | 8.57 | 23.13 | 30.0 | -6.9 | |
| 1.754 | 11.2 | H | 0.95 | 8.80 | 19.08 | 30.0 | -10.9 | |
| Rev. 10 24 13 | | | | | | | | |

QPSK EIRP POWER FOR LTE BAND 4 (5.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | |
|--|---------------------|-------------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|
| Project #: | | 14U18207 | | | | | | |
| Date: | | 7/30/2014 | | | | | | |
| Test Engineer: | | T Wang | | | | | | |
| Configuration: | | EUT only | | | | | | |
| Mode: | | LTE Band 4 QPSK 5MHz BW | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T346, and Chamber E SMA Cables | | | | | | | | |
| Substitution: Horn T59 Substitution, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes |
| Low Ch | | | | | | | | |
| 1.713 | 17.0 | V | 0.95 | 8.42 | 24.46 | 30.0 | -5.5 | |
| 1.713 | 12.0 | H | 0.95 | 8.60 | 19.69 | 30.0 | -10.3 | |
| Mid Ch | | | | | | | | |
| 1.733 | 16.7 | V | 0.95 | 8.50 | 24.22 | 30.0 | -5.8 | |
| 1.733 | 11.1 | H | 0.95 | 8.70 | 18.84 | 30.0 | -11.2 | |
| High Ch | | | | | | | | |
| 1.753 | 17.1 | V | 0.95 | 8.57 | 24.73 | 30.0 | -5.3 | |
| 1.753 | 12.4 | H | 0.95 | 8.80 | 20.28 | 30.0 | -9.7 | |
| Rev. 10.24.13 | | | | | | | | |

16QAM EIRP POWER FOR LTE BAND 4 (5.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | |
|--|---------------------|--------------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|
| Project #: | | 14U18207 | | | | | | |
| Date: | | 7/30/2014 | | | | | | |
| Test Engineer: | | T Wang | | | | | | |
| Configuration: | | EUT only | | | | | | |
| Mode: | | LTE Band 4 16QAM 5MHz BW | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T346, and Chamber E SMA Cables | | | | | | | | |
| Substitution: Horn T59 Substitution, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes |
| Low Ch | | | | | | | | |
| 1.713 | 15.9 | V | 0.95 | 8.42 | 23.42 | 30.0 | -6.6 | |
| 1.713 | 10.9 | H | 0.95 | 8.60 | 18.59 | 30.0 | -11.4 | |
| Mid Ch | | | | | | | | |
| 1.733 | 15.8 | V | 0.95 | 8.50 | 23.38 | 30.0 | -6.6 | |
| 1.733 | 10.1 | H | 0.95 | 8.70 | 17.82 | 30.0 | -12.2 | |
| High Ch | | | | | | | | |
| 1.753 | 16.1 | V | 0.95 | 8.57 | 23.74 | 30.0 | -6.3 | |
| 1.753 | 11.4 | H | 0.95 | 8.80 | 19.28 | 30.0 | -10.7 | |
| Rev. 10.24.13 | | | | | | | | |

QPSK EIRP POWER FOR LTE BAND 4 (10.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | |
|--|---------------------|--------------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|
| Project #: | | 14U18207 | | | | | | |
| Date: | | 7/30/2014 | | | | | | |
| Test Engineer: | | O. SU | | | | | | |
| Configuration: | | EUT only | | | | | | |
| Mode: | | LTE Band 4 QPSK 10MHz BW | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T346, and Chamber E SMA Cables | | | | | | | | |
| Substitution: Horn T59 Substitution, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes |
| Low Ch | | | | | | | | |
| 1.715 | 17.3 | V | 0.95 | 8.42 | 24.82 | 30.0 | -5.2 | |
| 1.715 | 12.2 | H | 0.95 | 8.60 | 19.87 | 30.0 | -10.1 | |
| Mid Ch | | | | | | | | |
| 1.733 | 16.7 | V | 0.95 | 8.50 | 24.25 | 30.0 | -5.7 | |
| 1.733 | 11.0 | H | 0.95 | 8.70 | 18.75 | 30.0 | -11.3 | |
| High Ch | | | | | | | | |
| 1.750 | 16.4 | V | 0.95 | 8.57 | 24.00 | 30.0 | -6.0 | |
| 1.750 | 11.4 | H | 0.95 | 8.80 | 19.25 | 30.0 | -10.8 | |
| Rev. 10.24.13 | | | | | | | | |

16QAM EIRP POWER FOR LTE BAND 4 (10.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | |
|--|---------------------|---------------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|
| Project #: | | 14U18207 | | | | | | |
| Date: | | 7/30/2014 | | | | | | |
| Test Engineer: | | O. SU | | | | | | |
| Configuration: | | EUT only | | | | | | |
| Mode: | | LTE Band 4 16QAM 10MHz BW | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T346, and Chamber E SMA Cables | | | | | | | | |
| Substitution: Horn T59 Substitution, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes |
| Low Ch | | | | | | | | |
| 1.715 | 16.3 | V | 0.95 | 8.42 | 23.80 | 30.0 | -6.2 | |
| 1.715 | 11.0 | H | 0.95 | 8.60 | 18.66 | 30.0 | -11.3 | |
| Mid Ch | | | | | | | | |
| 1.733 | 15.7 | V | 0.95 | 8.50 | 23.26 | 30.0 | -6.7 | |
| 1.733 | 9.9 | H | 0.95 | 8.70 | 17.61 | 30.0 | -12.4 | |
| High Ch | | | | | | | | |
| 1.750 | 15.5 | V | 0.95 | 8.57 | 23.07 | 30.0 | -6.9 | |
| 1.750 | 10.3 | H | 0.95 | 8.80 | 18.14 | 30.0 | -11.9 | |
| Rev. 10.24.13 | | | | | | | | |

QPSK EIRP POWER FOR LTE BAND 4 (15.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | |
|--|---------------------|--------------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|
| Project #: | | 14U18207 | | | | | | |
| Date: | | 7/30/2014 | | | | | | |
| Test Engineer: | | T Wang | | | | | | |
| Configuration: | | EUT only | | | | | | |
| Mode: | | LTE Band 4 QPSK 15MHz BW | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T346, and Chamber E SMA Cables | | | | | | | | |
| Substitution: Horn T59 Substitution, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes |
| Low Ch | | | | | | | | |
| 1.718 | 16.8 | V | 0.95 | 8.42 | 24.26 | 30.0 | -5.7 | |
| 1.718 | 12.0 | H | 0.95 | 8.60 | 19.69 | 30.0 | -10.3 | |
| Mid Ch | | | | | | | | |
| 1.733 | 16.6 | V | 0.95 | 8.50 | 24.15 | 30.0 | -5.8 | |
| 1.733 | 11.6 | H | 0.95 | 8.70 | 19.34 | 30.0 | -10.7 | |
| High Ch | | | | | | | | |
| 1.748 | 17.0 | V | 0.95 | 8.57 | 24.64 | 30.0 | -5.4 | |
| 1.748 | 11.8 | H | 0.95 | 8.80 | 19.68 | 30.0 | -10.3 | |
| Rev. 10.24.13 | | | | | | | | |

16QAM EIRP POWER FOR LTE BAND 4 (15.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | |
|--|---------------------|---------------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|
| Project #: | | 14U18207 | | | | | | |
| Date: | | 7/30/2014 | | | | | | |
| Test Engineer: | | T Wang | | | | | | |
| Configuration: | | EUT only | | | | | | |
| Mode: | | LTE Band 4 16QAM 15MHz BW | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T346, and Chamber E SMA Cables | | | | | | | | |
| Substitution: Horn T59 Substitution, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes |
| Low Ch | | | | | | | | |
| 1.718 | 15.9 | V | 0.95 | 8.42 | 23.40 | 30.0 | -6.6 | |
| 1.718 | 11.0 | H | 0.95 | 8.60 | 18.69 | 30.0 | -11.3 | |
| Mid Ch | | | | | | | | |
| 1.733 | 15.5 | V | 0.95 | 8.50 | 23.05 | 30.0 | -6.9 | |
| 1.733 | 10.5 | H | 0.95 | 8.70 | 18.24 | 30.0 | -11.8 | |
| High Ch | | | | | | | | |
| 1.748 | 15.9 | V | 0.95 | 8.57 | 23.52 | 30.0 | -6.5 | |
| 1.748 | 10.9 | H | 0.95 | 8.80 | 18.78 | 30.0 | -11.2 | |
| Rev. 10.24.13 | | | | | | | | |

QPSK EIRP POWER FOR LTE BAND 4 (20.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | |
|--|---------------------|--------------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|
| Project #: | | 14U18207 | | | | | | |
| Date: | | 7/30/2014 | | | | | | |
| Test Engineer: | | T Wang | | | | | | |
| Configuration: | | EUT only | | | | | | |
| Mode: | | LTE Band 4 QPSK 20MHz BW | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T346, and Chamber E SMA Cables | | | | | | | | |
| Substitution: Horn T59 Substitution, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes |
| Low Ch | | | | | | | | |
| 1.720 | 16.8 | V | 0.95 | 8.42 | 24.29 | 30.0 | -5.7 | |
| 1.720 | 12.3 | H | 0.95 | 8.60 | 19.99 | 30.0 | -10.0 | |
| Mid Ch | | | | | | | | |
| 1.733 | 16.9 | V | 0.95 | 8.50 | 24.48 | 30.0 | -5.5 | |
| 1.733 | 11.9 | H | 0.95 | 8.70 | 19.63 | 30.0 | -10.4 | |
| High Ch | | | | | | | | |
| 1.745 | 17.1 | V | 0.95 | 8.57 | 24.75 | 30.0 | -5.2 | |
| 1.745 | 12.0 | H | 0.95 | 8.80 | 19.89 | 30.0 | -10.1 | |
| Rev. 10.24.13 | | | | | | | | |

16QAM EIRP POWER FOR LTE BAND 4 (20.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | |
|--|---------------------|---------------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|
| Project #: | | 14U18207 | | | | | | |
| Date: | | 7/30/2014 | | | | | | |
| Test Engineer: | | T Wang | | | | | | |
| Configuration: | | EUT only | | | | | | |
| Mode: | | LTE Band 4 16QAM 20MHz BW | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T346, and Chamber E SMA Cables | | | | | | | | |
| Substitution: Horn T59 Substitution, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes |
| Low Ch | | | | | | | | |
| 1.720 | 15.8 | V | 0.95 | 8.42 | 23.25 | 30.0 | -6.8 | |
| 1.720 | 10.9 | H | 0.95 | 8.60 | 18.57 | 30.0 | -11.4 | |
| Mid Ch | | | | | | | | |
| 1.733 | 15.6 | V | 0.95 | 8.50 | 23.19 | 30.0 | -6.8 | |
| 1.733 | 10.8 | H | 0.95 | 8.70 | 18.52 | 30.0 | -11.5 | |
| High Ch | | | | | | | | |
| 1.745 | 16.2 | V | 0.95 | 8.57 | 23.86 | 30.0 | -6.1 | |
| 1.745 | 10.8 | H | 0.95 | 8.80 | 18.65 | 30.0 | -11.4 | |
| Rev. 10.24.13 | | | | | | | | |

9.1.3. LTE BAND 5

QPSK EIRP POWER FOR LTE BAND 5 (1.4MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | | | |
|---|---------------------|---------------------------|--------------------|-----------------------|--------------|---------------|--------------------|---------------------|----------------|-------|
| Project #: | | 14U18207 | | | | | | | | |
| Date: | | 7/25/2014 | | | | | | | | |
| Test Engineer: | | Q Su | | | | | | | | |
| Configuration: | | EUT only | | | | | | | | |
| Mode: | | LTE Band 5 QPSK 1.4MHz BW | | | | | | | | |
| <u>Test Equipment:</u> | | | | | | | | | | |
| Receiving: Sunol T408, and Chamber E Cable | | | | | | | | | | |
| Substitution: Dipole S/N: 00022117, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBd) | ERP (dBm) | EIRP (dBm) | ERP Limit (dBm) | EIRP Limit (dBm) | Margin (dB) | Notes |
| Low Ch | | | | | | | | | | |
| 824.70 | 23.14 | V | 0.6 | 0.0 | 22.52 | 24.67 | 38.45 | 40.60 | -15.9 | |
| 824.70 | 14.91 | H | 0.6 | 0.0 | 14.29 | 16.44 | 38.45 | 40.60 | -24.2 | |
| Mid Ch | | | | | | | | | | |
| 836.50 | 22.55 | V | 0.6 | 0.0 | 21.93 | 24.08 | 38.45 | 40.60 | -16.5 | |
| 836.50 | 16.85 | H | 0.6 | 0.0 | 16.23 | 18.38 | 38.45 | 40.60 | -22.2 | |
| High Ch | | | | | | | | | | |
| 848.30 | 22.42 | V | 0.6 | 0.0 | 21.80 | 23.95 | 38.45 | 40.60 | -16.7 | |
| 848.30 | 16.57 | H | 0.6 | 0.0 | 15.95 | 18.10 | 38.45 | 40.60 | -22.5 | |
| Rev. 10.24.13 | | | | | | | | | | |

16QAM EIRP POWER FOR LTE BAND 5 (1.4MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | | | |
|---|---------------------|----------------------------|--------------------|-----------------------|--------------|---------------|--------------------|---------------------|----------------|-------|
| Project #: | | 14U18207 | | | | | | | | |
| Date: | | 7/25/2014 | | | | | | | | |
| Test Engineer: | | Ali P | | | | | | | | |
| Configuration: | | EUT only | | | | | | | | |
| Mode: | | LTE Band 5 16QAM 1.4MHz BW | | | | | | | | |
| Test Equipment: | | | | | | | | | | |
| Receiving: Sunol T408, and Chamber E Cable | | | | | | | | | | |
| Substitution: Dipole S/N: 00022117, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBd) | ERP (dBm) | EIRP (dBm) | ERP Limit (dBm) | EIRP Limit (dBm) | Margin (dB) | Notes |
| Low Ch | | | | | | | | | | |
| 824.70 | 22.34 | V | 0.6 | 0.0 | 21.72 | 23.87 | 38.45 | 40.60 | -16.7 | |
| 824.70 | 14.01 | H | 0.6 | 0.0 | 13.39 | 15.54 | 38.45 | 40.60 | -25.1 | |
| Mid Ch | | | | | | | | | | |
| 836.50 | 21.53 | V | 0.6 | 0.0 | 20.91 | 23.06 | 38.45 | 40.60 | -17.5 | |
| 836.50 | 15.69 | H | 0.6 | 0.0 | 15.07 | 17.22 | 38.45 | 40.60 | -23.4 | |
| High Ch | | | | | | | | | | |
| 848.30 | 21.42 | V | 0.6 | 0.0 | 20.80 | 22.95 | 38.45 | 40.60 | -17.7 | |
| 848.30 | 15.75 | H | 0.6 | 0.0 | 15.13 | 17.28 | 38.45 | 40.60 | -23.3 | |
| Rev. 10.24.13 | | | | | | | | | | |

QPSK EIRP POWER FOR LTE BAND 5 (3.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | | | |
|---|---------------------|-------------------------|--------------------|-----------------------|--------------|---------------|--------------------|---------------------|----------------|-------|
| Project #: | | 14U18207 | | | | | | | | |
| Date: | | 7/14/2014 | | | | | | | | |
| Test Engineer: | | T Wang | | | | | | | | |
| Configuration: | | EUT only | | | | | | | | |
| Mode: | | LTE Band 5 QPSK 3MHz BW | | | | | | | | |
| Test Equipment: | | | | | | | | | | |
| Receiving: Sunol T408, and Chamber E Cable | | | | | | | | | | |
| Substitution: Dipole S/N: 00022117, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBd) | ERP (dBm) | EIRP (dBm) | ERP Limit (dBm) | EIRP Limit (dBm) | Margin (dB) | Notes |
| Low Ch | | | | | | | | | | |
| 825.50 | 22.84 | V | 0.6 | 0.0 | 22.22 | 24.37 | 38.45 | 40.60 | -16.2 | |
| 825.50 | 15.91 | H | 0.6 | 0.0 | 15.29 | 17.44 | 38.45 | 40.60 | -23.2 | |
| Mid Ch | | | | | | | | | | |
| 836.50 | 22.20 | V | 0.6 | 0.0 | 21.58 | 23.73 | 38.45 | 40.60 | -16.9 | |
| 836.50 | 15.25 | H | 0.6 | 0.0 | 14.63 | 16.78 | 38.45 | 40.60 | -23.8 | |
| High Ch | | | | | | | | | | |
| 847.50 | 22.34 | V | 0.6 | 0.0 | 21.72 | 23.87 | 38.45 | 40.60 | -16.7 | |
| 847.50 | 15.90 | H | 0.6 | 0.0 | 15.28 | 17.43 | 38.45 | 40.60 | -23.2 | |
| Rev. 10 24.13 | | | | | | | | | | |

16QAM EIRP POWER FOR LTE BAND 5 (3.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | | | |
|---|---------------------|--------------------------|--------------------|-----------------------|--------------|---------------|--------------------|---------------------|----------------|-------|
| Project #: | | 14U18207 | | | | | | | | |
| Date: | | 7/17/2014 | | | | | | | | |
| Test Engineer: | | T Wang | | | | | | | | |
| Configuration: | | EUT only | | | | | | | | |
| Mode: | | LTE Band 5 16QAM 3MHz BW | | | | | | | | |
| Test Equipment: | | | | | | | | | | |
| Receiving: Sunol T408, and Chamber E Cable | | | | | | | | | | |
| Substitution: Dipole S/N: 00022117, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBd) | ERP (dBm) | EIRP (dBm) | ERP Limit (dBm) | EIRP Limit (dBm) | Margin (dB) | Notes |
| Low Ch | | | | | | | | | | |
| 825.50 | 21.94 | V | 0.6 | 0.0 | 21.32 | 23.47 | 38.45 | 40.60 | -17.1 | |
| 825.50 | 14.91 | H | 0.6 | 0.0 | 14.29 | 16.44 | 38.45 | 40.60 | -24.2 | |
| Mid Ch | | | | | | | | | | |
| 836.50 | 21.25 | V | 0.6 | 0.0 | 20.63 | 22.78 | 38.45 | 40.60 | -17.8 | |
| 836.50 | 14.59 | H | 0.6 | 0.0 | 13.97 | 16.12 | 38.45 | 40.60 | -24.5 | |
| High Ch | | | | | | | | | | |
| 847.50 | 21.44 | V | 0.6 | 0.0 | 20.82 | 22.97 | 38.45 | 40.60 | -17.6 | |
| 847.50 | 14.97 | H | 0.6 | 0.0 | 14.35 | 16.50 | 38.45 | 40.60 | -24.1 | |
| Rev: 10.24.13 | | | | | | | | | | |

QPSK EIRP POWER FOR LTE BAND 5 (5.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | | | |
|---|---------------------|-------------------------|--------------------|-----------------------|--------------|---------------|--------------------|---------------------|----------------|-------|
| Project #: | | 14U18207 | | | | | | | | |
| Date: | | 7/24/2014 | | | | | | | | |
| Test Engineer: | | O Su | | | | | | | | |
| Configuration: | | EUT only | | | | | | | | |
| Mode: | | LTE Band 5 QPSK 5MHz BW | | | | | | | | |
| Test Equipment: | | | | | | | | | | |
| Receiving: Sunol T408, and Chamber E Cable | | | | | | | | | | |
| Substitution: Dipole S/N: 00022117, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBd) | ERP (dBm) | EIRP (dBm) | ERP Limit (dBm) | EIRP Limit (dBm) | Margin (dB) | Notes |
| Low Ch | | | | | | | | | | |
| 826.50 | 23.11 | V | 0.6 | 0.0 | 22.49 | 24.64 | 38.45 | 40.60 | -16.0 | |
| 826.50 | 15.31 | H | 0.6 | 0.0 | 14.69 | 16.84 | 38.45 | 40.60 | -23.8 | |
| Mid Ch | | | | | | | | | | |
| 836.50 | 23.05 | V | 0.6 | 0.0 | 22.43 | 24.58 | 38.45 | 40.60 | -16.0 | |
| 836.50 | 15.35 | H | 0.6 | 0.0 | 14.73 | 16.88 | 38.45 | 40.60 | -23.7 | |
| High Ch | | | | | | | | | | |
| 846.50 | 22.94 | V | 0.6 | 0.0 | 22.32 | 24.47 | 38.45 | 40.60 | -16.1 | |
| 846.50 | 15.37 | H | 0.6 | 0.0 | 14.75 | 16.90 | 38.45 | 40.60 | -23.7 | |
| Rev. 10.24.13 | | | | | | | | | | |

16QAM EIRP POWER FOR LTE BAND 5 (5.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | | | |
|---|---------------------|--------------------------|--------------------|-----------------------|--------------|---------------|--------------------|---------------------|----------------|-------|
| Project #: | | 14U18207 | | | | | | | | |
| Date: | | 7/14/2014 | | | | | | | | |
| Test Engineer: | | T Wang | | | | | | | | |
| Configuration: | | EUT only | | | | | | | | |
| Mode: | | LTE Band 5 16QAM 5MHz BW | | | | | | | | |
| Test Equipment: | | | | | | | | | | |
| Receiving: Sunol T408, and Chamber E Cable | | | | | | | | | | |
| Substitution: Dipole S/N: 00022117, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBd) | ERP (dBm) | EIRP (dBm) | ERP Limit (dBm) | EIRP Limit (dBm) | Margin (dB) | Notes |
| Low Ch | | | | | | | | | | |
| 826.50 | 22.41 | V | 0.6 | 0.0 | 21.79 | 23.94 | 38.45 | 40.60 | -16.7 | |
| 826.50 | 14.21 | H | 0.6 | 0.0 | 13.59 | 15.74 | 38.45 | 40.60 | -24.9 | |
| Mid Ch | | | | | | | | | | |
| 836.50 | 22.15 | V | 0.6 | 0.0 | 21.53 | 23.68 | 38.45 | 40.60 | -16.9 | |
| 836.50 | 14.42 | H | 0.6 | 0.0 | 13.80 | 15.95 | 38.45 | 40.60 | -24.7 | |
| High Ch | | | | | | | | | | |
| 846.50 | 22.04 | V | 0.6 | 0.0 | 21.42 | 23.57 | 38.45 | 40.60 | -17.0 | |
| 846.50 | 14.44 | H | 0.6 | 0.0 | 13.82 | 15.97 | 38.45 | 40.60 | -24.6 | |
| Rev. 10.24.13 | | | | | | | | | | |

QPSK EIRP POWER FOR LTE BAND 5 (10.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | | | |
|---|---------------------|--------------------------|--------------------|-----------------------|--------------|---------------|--------------------|---------------------|----------------|-------|
| Project #: | | 14U18207 | | | | | | | | |
| Date: | | 7/24/2014 | | | | | | | | |
| Test Engineer: | | T Wang | | | | | | | | |
| Configuration: | | EUT only | | | | | | | | |
| Mode: | | LTE Band 5 QPSK 10MHz BW | | | | | | | | |
| Test Equipment: | | | | | | | | | | |
| Receiving: Sunol T408, and Chamber E Cable | | | | | | | | | | |
| Substitution: Dipole S/N: 00022117, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBd) | ERP (dBm) | EIRP (dBm) | ERP Limit (dBm) | EIRP Limit (dBm) | Margin (dB) | Notes |
| Low Ch | | | | | | | | | | |
| 829.00 | 22.94 | V | 0.6 | 0.0 | 22.32 | 24.47 | 38.45 | 40.60 | -16.1 | |
| 829.00 | 17.91 | H | 0.6 | 0.0 | 17.29 | 19.44 | 38.45 | 40.60 | -21.2 | |
| Mid Ch | | | | | | | | | | |
| 836.50 | 22.65 | V | 0.6 | 0.0 | 22.03 | 24.18 | 38.45 | 40.60 | -16.4 | |
| 836.50 | 17.35 | H | 0.6 | 0.0 | 16.73 | 18.88 | 38.45 | 40.60 | -21.7 | |
| High Ch | | | | | | | | | | |
| 844.00 | 23.24 | V | 0.6 | 0.0 | 22.62 | 24.77 | 38.45 | 40.60 | -15.8 | |
| 844.00 | 17.17 | H | 0.6 | 0.0 | 16.55 | 18.70 | 38.45 | 40.60 | -21.9 | |
| Rev. 10.24.13 | | | | | | | | | | |

16QAM EIRP POWER FOR LTE BAND 5 (10.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | | | |
|---|---------------------|---------------------------|--------------------|-----------------------|--------------|---------------|--------------------|---------------------|----------------|-------|
| Project #: | | 14U18207 | | | | | | | | |
| Date: | | 7/14/2014 | | | | | | | | |
| Test Engineer: | | T Wang | | | | | | | | |
| Configuration: | | EUT only | | | | | | | | |
| Mode: | | LTE Band 5 16QAM 10MHz BW | | | | | | | | |
| | | | | | | | | | | |
| Test Equipment: | | | | | | | | | | |
| Receiving: Sunol T408, and Chamber E Cable | | | | | | | | | | |
| Substitution: Dipole S/N: 00022117, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBd) | ERP (dBm) | EIRP (dBm) | ERP Limit (dBm) | EIRP Limit (dBm) | Margin (dB) | Notes |
| Low Ch | | | | | | | | | | |
| 829.00 | 22.21 | V | 0.6 | 0.0 | 21.59 | 23.74 | 38.45 | 40.60 | -16.9 | |
| 829.00 | 17.11 | H | 0.6 | 0.0 | 16.49 | 18.64 | 38.45 | 40.60 | -22.0 | |
| Mid Ch | | | | | | | | | | |
| 836.50 | 21.85 | V | 0.6 | 0.0 | 21.23 | 23.38 | 38.45 | 40.60 | -17.2 | |
| 836.50 | 16.65 | H | 0.6 | 0.0 | 16.03 | 18.18 | 38.45 | 40.60 | -22.4 | |
| High Ch | | | | | | | | | | |
| 844.00 | 22.46 | V | 0.6 | 0.0 | 21.84 | 23.99 | 38.45 | 40.60 | -16.6 | |
| 844.00 | 16.27 | H | 0.6 | 0.0 | 15.65 | 17.80 | 38.45 | 40.60 | -22.8 | |
| Rev: 10.24.13 | | | | | | | | | | |

9.1.4. LTE BAND 13

QPSK EIRP POWER FOR LTE BAND 13 (5.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | | | |
|---|---------------------|--------------------------|--------------------|-----------------------|--------------|---------------|--------------------|---------------------|----------------|-------|
| Project #: | | 14U18207 | | | | | | | | |
| Date: | | 7/23/2014 | | | | | | | | |
| Test Engineer: | | O SU | | | | | | | | |
| Configuration: | | EUT only | | | | | | | | |
| Mode: | | LTE Band 13 QPSK 5MHz BW | | | | | | | | |
| Test Equipment: | | | | | | | | | | |
| Receiving: Sunol T408, and Chamber E Cable | | | | | | | | | | |
| Substitution: Dipole S/N: 00022117, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBd) | ERP (dBm) | EIRP (dBm) | ERP Limit (dBm) | EIRP Limit (dBm) | Margin (dB) | Notes |
| Low Ch | | | | | | | | | | |
| 779.50 | 22.01 | V | 0.55 | 0.0 | 21.46 | 23.61 | 34.77 | 36.99 | -13.4 | |
| 779.50 | 18.66 | H | 0.55 | 0.0 | 18.11 | 20.26 | 34.77 | 36.99 | -16.7 | |
| Mid Ch | | | | | | | | | | |
| 782.00 | 22.09 | V | 0.55 | 0.0 | 21.54 | 23.69 | 34.77 | 36.99 | -13.3 | |
| 782.00 | 19.18 | H | 0.55 | 0.0 | 18.63 | 20.78 | 34.77 | 36.99 | -16.2 | |
| High Ch | | | | | | | | | | |
| 784.50 | 22.43 | V | 0.55 | 0.0 | 21.88 | 24.03 | 34.77 | 36.99 | -13.0 | |
| 784.50 | 19.74 | H | 0.55 | 0.0 | 19.19 | 21.34 | 34.77 | 36.99 | -15.7 | |
| Rev. 10.24.13 | | | | | | | | | | |

16QAM EIRP POWER FOR LTE BAND 13 (5.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | | | |
|---|---------------------|--------------------------|--------------------|-----------------------|--------------|---------------|--------------------|---------------------|----------------|-------|
| Project #: | | 14U18207 | | | | | | | | |
| Date: | | 7/23/2014 | | | | | | | | |
| Test Engineer: | | O Su | | | | | | | | |
| Configuration: | | EUT only | | | | | | | | |
| Mode: | | LTE Band 13 16QAM5MHz BW | | | | | | | | |
| Test Equipment: | | | | | | | | | | |
| Receiving: Sunol T408, and Chamber E Cable | | | | | | | | | | |
| Substitution: Dipole S/N: 00022117, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBd) | ERP (dBm) | EIRP (dBm) | ERP Limit (dBm) | EIRP Limit (dBm) | Margin (dB) | Notes |
| Low Ch | | | | | | | | | | |
| 779.50 | 21.10 | V | 0.55 | 0.0 | 20.55 | 22.70 | 34.77 | 36.99 | -14.3 | |
| 779.50 | 17.75 | H | 0.55 | 0.0 | 17.20 | 19.35 | 34.77 | 36.99 | -17.6 | |
| Mid Ch | | | | | | | | | | |
| 782.00 | 21.18 | V | 0.55 | 0.0 | 20.63 | 22.78 | 34.77 | 36.99 | -14.2 | |
| 782.00 | 18.27 | H | 0.55 | 0.0 | 17.72 | 19.87 | 34.77 | 36.99 | -17.1 | |
| High Ch | | | | | | | | | | |
| 784.50 | 21.52 | V | 0.55 | 0.0 | 20.97 | 23.12 | 34.77 | 36.99 | -13.9 | |
| 784.50 | 18.83 | H | 0.55 | 0.0 | 18.28 | 20.43 | 34.77 | 36.99 | -16.6 | |
| Rev. 10.24.13 | | | | | | | | | | |

QPSK EIRP POWER FOR LTE BAND 13 (10.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | | | |
|---|---------------------------|--------------------|--------------------|-----------------------|--------------|---------------|--------------------|---------------------|----------------|-------|
| Project #: | 14U18207 | | | | | | | | | |
| Date: | 7/23/2014 | | | | | | | | | |
| Test Engineer: | O Su | | | | | | | | | |
| Configuration: | EUT only | | | | | | | | | |
| Mode: | LTE Band 13 QPSK 10MHz BW | | | | | | | | | |
| Test Equipment: | | | | | | | | | | |
| Receiving: Sunol T408, and Chamber E Cable | | | | | | | | | | |
| Substitution: Dipole S/N: 00022117, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBd) | ERP (dBm) | EIRP (dBm) | ERP Limit (dBm) | EIRP Limit (dBm) | Margin (dB) | Notes |
| 782.00 | 22.49 | V | 0.55 | 0.0 | 21.94 | 24.09 | 34.77 | 36.99 | -12.9 | |
| 782.00 | 18.73 | H | 0.55 | 0.0 | 18.18 | 20.33 | 34.77 | 36.99 | -16.7 | |
| Rev. 10.24.13 | | | | | | | | | | |

16QAM EIRP POWER FOR LTE BAND 13 (10.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | | | |
|---|----------------------------|--------------------|--------------------|-----------------------|--------------|---------------|--------------------|---------------------|----------------|-------|
| Project #: | 14U18207 | | | | | | | | | |
| Date: | 7/23/2014 | | | | | | | | | |
| Test Engineer: | O Su | | | | | | | | | |
| Configuration: | EUT only | | | | | | | | | |
| Mode: | LTE Band 13 16QAM 10MHz BW | | | | | | | | | |
| Test Equipment: | | | | | | | | | | |
| Receiving: Sunol T408, and Chamber E Cable | | | | | | | | | | |
| Substitution: Dipole S/N: 00022117, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBd) | ERP (dBm) | EIRP (dBm) | ERP Limit (dBm) | EIRP Limit (dBm) | Margin (dB) | Notes |
| 782.00 | 21.59 | V | 0.55 | 0.0 | 21.04 | 23.19 | 34.77 | 36.99 | -13.8 | |
| 782.00 | 17.83 | H | 0.55 | 0.0 | 17.28 | 19.43 | 34.77 | 36.99 | -17.6 | |
| Rev. 10.24.13 | | | | | | | | | | |

9.1.5. LTE BAND 17

QPSK EIRP POWER FOR LTE BAND 17 (5.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | | | |
|---|---------------------|--------------------------|--------------------|-----------------------|--------------|---------------|--------------------|---------------------|----------------|-------|
| Project #: | | 14U18207 | | | | | | | | |
| Date: | | 7/23/2014 | | | | | | | | |
| Test Engineer: | | T Wang | | | | | | | | |
| Configuration: | | EUT only | | | | | | | | |
| Mode: | | LTE Band 17 QPSK 5MHz BW | | | | | | | | |
| Test Equipment: | | | | | | | | | | |
| Receiving: Sunol T408, and Chamber E Cable | | | | | | | | | | |
| Substitution: Dipole S/N: 00022117, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBd) | ERP (dBm) | EIRP (dBm) | ERP Limit (dBm) | EIRP Limit (dBm) | Margin (dB) | Notes |
| Low Ch | | | | | | | | | | |
| 706.50 | 22.18 | V | 0.55 | 0.0 | 21.63 | 23.78 | 34.77 | 36.99 | -13.2 | |
| 706.50 | 15.89 | H | 0.55 | 0.0 | 15.34 | 17.49 | 34.77 | 36.99 | -19.5 | |
| Mid Ch | | | | | | | | | | |
| 710.00 | 22.11 | V | 0.55 | 0.0 | 21.56 | 23.71 | 34.77 | 36.99 | -13.3 | |
| 710.00 | 15.53 | H | 0.55 | 0.0 | 14.98 | 17.13 | 34.77 | 36.99 | -19.9 | |
| High Ch | | | | | | | | | | |
| 713.50 | 21.70 | V | 0.55 | 0.0 | 21.15 | 23.30 | 34.77 | 36.99 | -13.7 | |
| 713.50 | 15.09 | H | 0.55 | 0.0 | 14.54 | 16.69 | 34.77 | 36.99 | -20.3 | |
| Rev. 10.24.13 | | | | | | | | | | |

16QAM EIRP POWER FOR LTE BAND 17 (5.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | | | |
|---|---------------------|---------------------------|--------------------|-----------------------|--------------|---------------|--------------------|---------------------|----------------|-------|
| Project #: | | 14U18207 | | | | | | | | |
| Date: | | 7/23/2014 | | | | | | | | |
| Test Engineer: | | T Wang | | | | | | | | |
| Configuration: | | EUT only | | | | | | | | |
| Mode: | | LTE Band 17 16QAM 5MHz BW | | | | | | | | |
| Test Equipment: | | | | | | | | | | |
| Receiving: Sunol T408, and Chamber E Cable | | | | | | | | | | |
| Substitution: Dipole S/N: 00022117, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBd) | ERP (dBm) | EIRP (dBm) | ERP Limit (dBm) | EIRP Limit (dBm) | Margin (dB) | Notes |
| Low Ch | | | | | | | | | | |
| 706.50 | 21.08 | V | 0.55 | 0.0 | 20.53 | 22.68 | 34.77 | 36.99 | -14.3 | |
| 706.50 | 14.99 | H | 0.55 | 0.0 | 14.44 | 16.59 | 34.77 | 36.99 | -20.4 | |
| Mid Ch | | | | | | | | | | |
| 710.00 | 21.19 | V | 0.55 | 0.0 | 20.64 | 22.79 | 34.77 | 36.99 | -14.2 | |
| 710.00 | 14.70 | H | 0.55 | 0.0 | 14.15 | 16.30 | 34.77 | 36.99 | -20.7 | |
| High Ch | | | | | | | | | | |
| 713.50 | 20.79 | V | 0.55 | 0.0 | 20.24 | 22.39 | 34.77 | 36.99 | -14.6 | |
| 713.50 | 14.45 | H | 0.55 | 0.0 | 13.90 | 16.05 | 34.77 | 36.99 | -20.9 | |
| Rev. 10.24.13 | | | | | | | | | | |

QPSK EIRP POWER FOR LTE BAND 17 (10.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | | | |
|---|---------------------|---------------------------|--------------------|-----------------------|--------------|---------------|--------------------|---------------------|----------------|-------|
| Project #: | | 14U18207 | | | | | | | | |
| Date: | | 7/23/2014 | | | | | | | | |
| Test Engineer: | | T Wang | | | | | | | | |
| Configuration: | | EUT only | | | | | | | | |
| Mode: | | LTE Band 17 QPSK 10MHz BW | | | | | | | | |
| Test Equipment: | | | | | | | | | | |
| Receiving: Sunol T408, and Chamber E Cable | | | | | | | | | | |
| Substitution: Dipole S/N: 00022117, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBd) | ERP (dBm) | EIRP (dBm) | ERP Limit (dBm) | EIRP Limit (dBm) | Margin (dB) | Notes |
| Low Ch | | | | | | | | | | |
| 709.00 | 22.03 | V | 0.55 | 0.0 | 21.48 | 23.63 | 34.77 | 36.99 | -13.4 | |
| 709.00 | 15.78 | H | 0.55 | 0.0 | 15.23 | 17.38 | 34.77 | 36.99 | -19.6 | |
| Mid Ch | | | | | | | | | | |
| 710.00 | 21.91 | V | 0.55 | 0.0 | 21.36 | 23.51 | 34.77 | 36.99 | -13.5 | |
| 710.00 | 16.11 | H | 0.55 | 0.0 | 15.56 | 17.71 | 34.77 | 36.99 | -19.3 | |
| High Ch | | | | | | | | | | |
| 711.00 | 21.82 | V | 0.55 | 0.0 | 21.27 | 23.42 | 34.77 | 36.99 | -13.6 | |
| 711.00 | 15.13 | H | 0.55 | 0.0 | 14.58 | 16.73 | 34.77 | 36.99 | -20.3 | |
| Rev. 10.24.13 | | | | | | | | | | |

16QAM EIRP POWER FOR LTE BAND 17 (10.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | | | |
|---|---------------------|----------------------------|--------------------|-----------------------|--------------|---------------|--------------------|---------------------|----------------|-------|
| Project #: | | 14U18207 | | | | | | | | |
| Date: | | 7/23/2014 | | | | | | | | |
| Test Engineer: | | T Wang | | | | | | | | |
| Configuration: | | EUT only | | | | | | | | |
| Mode: | | LTE Band 17 16QAM 10MHz BW | | | | | | | | |
| Test Equipment: | | | | | | | | | | |
| Receiving: Sunoi T408, and Chamber E Cable | | | | | | | | | | |
| Substitution: Dipole S/N: 00022117, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBd) | ERP (dBm) | EIRP (dBm) | ERP Limit (dBm) | EIRP Limit (dBm) | Margin (dB) | Notes |
| Low Ch | | | | | | | | | | |
| 709.00 | 21.03 | V | 0.55 | 0.0 | 20.48 | 22.63 | 34.77 | 36.99 | -14.4 | |
| 709.00 | 14.86 | H | 0.55 | 0.0 | 14.31 | 16.46 | 34.77 | 36.99 | -20.5 | |
| Mid Ch | | | | | | | | | | |
| 710.00 | 21.01 | V | 0.55 | 0.0 | 20.46 | 22.61 | 34.77 | 36.99 | -14.4 | |
| 710.00 | 14.98 | H | 0.55 | 0.0 | 14.43 | 16.58 | 34.77 | 36.99 | -20.4 | |
| High Ch | | | | | | | | | | |
| 711.00 | 20.88 | V | 0.55 | 0.0 | 20.33 | 22.48 | 34.77 | 36.99 | -14.5 | |
| 711.00 | 14.27 | H | 0.55 | 0.0 | 13.72 | 15.87 | 34.77 | 36.99 | -21.1 | |
| Rev. 10.24.13 | | | | | | | | | | |

9.1.6. LTE BAND 25

QPSK EIRP POWER FOR LTE BAND 25 (1.4MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | |
|--|---------------------|----------------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|
| Project #: | | 14U18207 | | | | | | |
| Date: | | 7/30/2014 | | | | | | |
| Test Engineer: | | O. Su | | | | | | |
| Configuration: | | EUT only | | | | | | |
| Mode: | | LTE Band 25 QPSK 1.4MHz BW | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T346, and Chamber E SMA Cables | | | | | | | | |
| Substitution: Horn T59 Substitution, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes |
| Low Ch | | | | | | | | |
| 1.851 | 16.1 | V | 0.98 | 8.61 | 23.77 | 33.0 | -9.2 | |
| 1.851 | 5.9 | H | 0.98 | 8.81 | 13.73 | 33.0 | -19.3 | |
| Mid Ch | | | | | | | | |
| 1.883 | 16.2 | V | 0.98 | 8.53 | 23.70 | 33.0 | -9.3 | |
| 1.883 | 6.6 | H | 0.98 | 8.68 | 14.33 | 33.0 | -18.7 | |
| High Ch | | | | | | | | |
| 1.914 | 17.4 | V | 0.98 | 8.45 | 24.84 | 33.0 | -8.2 | |
| 1.914 | 5.9 | H | 0.98 | 8.55 | 13.46 | 33.0 | -19.5 | |
| Rev. 10.24.13 | | | | | | | | |

16QAM EIRP POWER FOR LTE BAND 25 (1.4MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | |
|--|---------------------|-----------------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|
| Project #: | | 14U18207 | | | | | | |
| Date: | | 7/30/2014 | | | | | | |
| Test Engineer: | | O. Su | | | | | | |
| Configuration: | | EUT only | | | | | | |
| Mode: | | LTE Band 25 16QAM 1.4MHz BW | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T346, and Chamber E SMA Cables | | | | | | | | |
| Substitution: Horn T59 Substitution, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes |
| Low Ch | | | | | | | | |
| 1.851 | 15.3 | V | 0.98 | 8.61 | 22.97 | 33.0 | -10.0 | |
| 1.851 | 5.0 | H | 0.98 | 8.81 | 12.83 | 33.0 | -20.2 | |
| Mid Ch | | | | | | | | |
| 1.883 | 15.5 | V | 0.98 | 8.53 | 23.00 | 33.0 | -10.0 | |
| 1.883 | 5.7 | H | 0.98 | 8.68 | 13.37 | 33.0 | -19.6 | |
| High Ch | | | | | | | | |
| 1.914 | 16.6 | V | 0.98 | 8.45 | 24.04 | 33.0 | -9.0 | |
| 1.914 | 4.8 | H | 0.98 | 8.55 | 12.39 | 33.0 | -20.6 | |
| Rev. 10 24 13 | | | | | | | | |

QPSK EIRP POWER FOR LTE BAND 25 (3.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | |
|--|---------------------|--------------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|
| Project #: | | 14U18207 | | | | | | |
| Date: | | 7/30/2014 | | | | | | |
| Test Engineer: | | O. Su | | | | | | |
| Configuration: | | EUT only | | | | | | |
| Mode: | | LTE Band 25 QPSK 3MHz BW | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T346, and Chamber E SMA Cables | | | | | | | | |
| Substitution: Horn T59 Substitution, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes |
| Low Ch | | | | | | | | |
| 1.852 | 15.9 | V | 0.98 | 8.61 | 23.50 | 33.0 | -9.5 | |
| 1.852 | 5.9 | H | 0.98 | 8.81 | 13.75 | 33.0 | -19.2 | |
| Mid Ch | | | | | | | | |
| 1.883 | 15.9 | V | 0.98 | 8.53 | 23.44 | 33.0 | -9.6 | |
| 1.883 | 6.9 | H | 0.98 | 8.68 | 14.58 | 33.0 | -18.4 | |
| High Ch | | | | | | | | |
| 1.914 | 17.2 | V | 0.98 | 8.45 | 24.71 | 33.0 | -8.3 | |
| 1.914 | 7.3 | H | 0.98 | 8.55 | 14.83 | 33.0 | -18.2 | |
| Rev. 10 24 13 | | | | | | | | |

16QAM EIRP POWER FOR LTE BAND 25 (3.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | |
|--|---------------------|---------------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|
| Project #: | | 14U18207 | | | | | | |
| Date: | | 7/30/2014 | | | | | | |
| Test Engineer: | | O. Su | | | | | | |
| Configuration: | | EUT only | | | | | | |
| Mode: | | LTE Band 25 16QAM 3MHz BW | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T346, and Chamber E SMA Cables | | | | | | | | |
| Substitution: Horn T59 Substitution, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes |
| Low Ch | | | | | | | | |
| 1.852 | 14.8 | V | 0.98 | 8.61 | 22.40 | 33.0 | -10.6 | |
| 1.852 | 4.9 | H | 0.98 | 8.81 | 12.75 | 33.0 | -20.2 | |
| Mid Ch | | | | | | | | |
| 1.883 | 14.8 | V | 0.98 | 8.53 | 22.38 | 33.0 | -10.6 | |
| 1.883 | 5.8 | H | 0.98 | 8.68 | 13.53 | 33.0 | -19.5 | |
| High Ch | | | | | | | | |
| 1.914 | 16.2 | V | 0.98 | 8.45 | 23.66 | 33.0 | -9.3 | |
| 1.914 | 6.8 | H | 0.98 | 8.55 | 14.36 | 33.0 | -18.6 | |
| Rev. 10.24.13 | | | | | | | | |

QPSK EIRP POWER FOR LTE BAND 25 (5.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | |
|--|---------------------|--------------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|
| Project #: | | 14U18207 | | | | | | |
| Date: | | 7/30/2014 | | | | | | |
| Test Engineer: | | O. Su | | | | | | |
| Configuration: | | EUT only | | | | | | |
| Mode: | | LTE Band 25 QPSK 5MHz BW | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T346, and Chamber E SMA Cables | | | | | | | | |
| Substitution: Horn T59 Substitution, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes |
| Low Ch | | | | | | | | |
| 1.853 | 16.0 | V | 0.98 | 8.61 | 23.68 | 33.0 | -9.3 | |
| 1.853 | 9.0 | H | 0.98 | 8.81 | 16.80 | 33.0 | -16.2 | |
| Mid Ch | | | | | | | | |
| 1.883 | 16.0 | V | 0.98 | 8.53 | 23.52 | 33.0 | -9.5 | |
| 1.883 | 9.2 | H | 0.98 | 8.68 | 16.94 | 33.0 | -16.1 | |
| High Ch | | | | | | | | |
| 1.913 | 17.4 | V | 0.98 | 8.45 | 24.89 | 33.0 | -8.1 | |
| 1.913 | 9.2 | H | 0.98 | 8.55 | 16.75 | 33.0 | -16.2 | |
| Rev. 10.24.13 | | | | | | | | |

16QAM EIRP POWER FOR LTE BAND 25 (5.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | |
|--|---------------------|---------------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|
| Project #: | | 14U18207 | | | | | | |
| Date: | | 7/30/2014 | | | | | | |
| Test Engineer: | | O. Su | | | | | | |
| Configuration: | | EUT only | | | | | | |
| Mode: | | LTE Band 25 16QAM 5MHz BW | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T346, and Chamber E SMA Cables | | | | | | | | |
| Substitution: Horn T59 Substitution, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes |
| Low Ch | | | | | | | | |
| 1.853 | 14.9 | V | 0.98 | 8.61 | 22.56 | 33.0 | -10.4 | |
| 1.853 | 7.9 | H | 0.98 | 8.81 | 15.69 | 33.0 | -17.3 | |
| Mid Ch | | | | | | | | |
| 1.883 | 14.7 | V | 0.98 | 8.53 | 22.28 | 33.0 | -10.7 | |
| 1.883 | 8.6 | H | 0.98 | 8.68 | 16.31 | 33.0 | -16.7 | |
| High Ch | | | | | | | | |
| 1.913 | 16.4 | V | 0.98 | 8.45 | 23.87 | 33.0 | -9.1 | |
| 1.913 | 8.0 | H | 0.98 | 8.55 | 15.53 | 33.0 | -17.5 | |
| Rev. 10.24.13 | | | | | | | | |

QPSK EIRP POWER FOR LTE BAND 25 (10.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | |
|--|---------------------|---------------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|
| Project #: | | 14U18207 | | | | | | |
| Date: | | 7/30/2014 | | | | | | |
| Test Engineer: | | O. Su | | | | | | |
| Configuration: | | EUT only | | | | | | |
| Mode: | | LTE Band 25 QPSK 10MHz BW | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T346, and Chamber E SMA Cables | | | | | | | | |
| Substitution: Horn T59 Substitution, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes |
| Low Ch | | | | | | | | |
| 1.855 | 16.6 | V | 0.98 | 8.61 | 24.23 | 33.0 | -8.8 | |
| 1.855 | 10.5 | H | 0.98 | 8.81 | 18.33 | 33.0 | -14.7 | |
| Mid Ch | | | | | | | | |
| 1.883 | 16.1 | V | 0.98 | 8.53 | 23.67 | 33.0 | -9.3 | |
| 1.883 | 9.7 | H | 0.98 | 8.68 | 17.43 | 33.0 | -15.6 | |
| High Ch | | | | | | | | |
| 1.910 | 17.1 | V | 0.98 | 8.45 | 24.57 | 33.0 | -8.4 | |
| 1.910 | 10.7 | H | 0.98 | 8.55 | 18.26 | 33.0 | -14.7 | |
| Rev. 10.24.13 | | | | | | | | |

16QAM EIRP POWER FOR LTE BAND 25 (10.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | |
|--|---------------------|----------------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|
| Project #: | | 14U18207 | | | | | | |
| Date: | | 7/30/2014 | | | | | | |
| Test Engineer: | | O. Su | | | | | | |
| Configuration: | | EUT only | | | | | | |
| Mode: | | LTE Band 25 16QAM 10MHz BW | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T346, and Chamber E SMA Cables | | | | | | | | |
| Substitution: Horn T59 Substitution, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes |
| Low Ch | | | | | | | | |
| 1.855 | 15.6 | V | 0.98 | 8.61 | 23.22 | 33.0 | -9.8 | |
| 1.855 | 10.0 | H | 0.98 | 8.81 | 17.78 | 33.0 | -15.2 | |
| Mid Ch | | | | | | | | |
| 1.883 | 15.1 | V | 0.98 | 8.53 | 22.63 | 33.0 | -10.4 | |
| 1.883 | 9.3 | H | 0.98 | 8.68 | 16.97 | 33.0 | -16.0 | |
| High Ch | | | | | | | | |
| 1.910 | 16.0 | V | 0.98 | 8.45 | 23.50 | 33.0 | -9.5 | |
| 1.910 | 10.1 | H | 0.98 | 8.55 | 17.62 | 33.0 | -15.4 | |
| Rev. 10.24.13 | | | | | | | | |

QPSK EIRP POWER FOR LTE BAND 25 (15.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | |
|---|---------------------|--------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|
| Company: Project #: 14U18207 Date: 7/30/2014 Test Engineer: O Su Configuration: EUT only Mode: LTE Band 25 QPSK 15MHz BW | | | | | | | | |
| Test Equipment: Receiving: Horn T346, and Chamber E SMA Cables Substitution: Horn T59 Substitution, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes |
| Low Ch | | | | | | | | |
| 1.858 | 16.9 | V | 0.98 | 8.61 | 24.57 | 33.0 | -8.4 | |
| 1.858 | 6.2 | H | 0.98 | 8.81 | 14.03 | 33.0 | -19.0 | |
| Mid Ch | | | | | | | | |
| 1.883 | 15.7 | V | 0.98 | 8.53 | 23.20 | 33.0 | -9.8 | |
| 1.883 | 7.6 | H | 0.98 | 8.68 | 15.33 | 33.0 | -17.7 | |
| High Ch | | | | | | | | |
| 1.908 | 15.6 | V | 0.98 | 8.45 | 23.04 | 33.0 | -10.0 | |
| 1.908 | 9.0 | H | 0.98 | 8.55 | 16.53 | 33.0 | -16.5 | |
| Rev. 10.24.13 | | | | | | | | |

16QAM EIRP POWER FOR LTE BAND 25 (15.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | |
|--|---------------------|--------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|
| Company: Project #: 14U18207 Date: 7/30/2014 Test Engineer: O Su Configuration: EUT only Mode: LTE Band 25 16QAM 15MHz BW | | | | | | | | |
| Test Equipment: Receiving: Horn T346, and Chamber E SMA Cables Substitution: Horn T59 Substitution, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes |
| Low Ch | | | | | | | | |
| 1.858 | 16.0 | V | 0.98 | 8.61 | 23.67 | 33.0 | -9.3 | |
| 1.858 | 5.3 | H | 0.98 | 8.81 | 13.13 | 33.0 | -19.9 | |
| Mid Ch | | | | | | | | |
| 1.883 | 14.8 | V | 0.98 | 8.53 | 22.30 | 33.0 | -10.7 | |
| 1.883 | 6.8 | H | 0.98 | 8.68 | 14.53 | 33.0 | -18.5 | |
| High Ch | | | | | | | | |
| 1.908 | 14.8 | V | 0.98 | 8.45 | 22.24 | 33.0 | -10.8 | |
| 1.908 | 7.9 | H | 0.98 | 8.55 | 15.43 | 33.0 | -17.6 | |
| Rev. 10.24.13 | | | | | | | | |

QPSK EIRP POWER FOR LTE BAND 25 (20.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | |
|---|---------------------|--------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|
| Company: Project #: 14U18207 Date: 7/30/2014 Test Engineer: T Wang Configuration: EUT only Mode: LTE Band 25 QPSK 20MHz BW | | | | | | | | |
| Test Equipment: Receiving: Horn T346, and Chamber E SMA Cables Substitution: Horn T59 Substitution, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes |
| Low Ch | | | | | | | | |
| 1.860 | 16.8 | V | 0.98 | 8.61 | 24.47 | 33.0 | -8.5 | |
| 1.860 | 10.4 | H | 0.98 | 8.81 | 18.23 | 33.0 | -14.8 | |
| Mid Ch | | | | | | | | |
| 1.883 | 16.5 | V | 0.98 | 8.53 | 24.00 | 33.0 | -9.0 | |
| 1.883 | 12.0 | H | 0.98 | 8.68 | 19.73 | 33.0 | -13.3 | |
| High Ch | | | | | | | | |
| 1.905 | 16.8 | V | 0.98 | 8.45 | 24.24 | 33.0 | -8.8 | |
| 1.905 | 11.6 | H | 0.98 | 8.55 | 19.13 | 33.0 | -13.9 | |
| Rev. 10.24.13 | | | | | | | | |

16QAM EIRP POWER FOR LTE BAND 25 (20.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | |
|--|---------------------|--------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|
| Company: Project #: 14U18207 Date: 7/30/2014 Test Engineer: T Wang Configuration: EUT only Mode: LTE Band 25 16QAM 20MHz BW | | | | | | | | |
| Test Equipment: Receiving: Horn T346, and Chamber E SMA Cables Substitution: Horn T59 Substitution, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes |
| Low Ch | | | | | | | | |
| 1.860 | 16.0 | V | 0.98 | 8.61 | 23.67 | 33.0 | -9.3 | |
| 1.860 | 9.6 | H | 0.98 | 8.81 | 17.43 | 33.0 | -15.6 | |
| Mid Ch | | | | | | | | |
| 1.883 | 15.7 | V | 0.98 | 8.53 | 23.20 | 33.0 | -9.8 | |
| 1.883 | 11.0 | H | 0.98 | 8.68 | 18.73 | 33.0 | -14.3 | |
| High Ch | | | | | | | | |
| 1.905 | 15.9 | V | 0.98 | 8.45 | 23.34 | 33.0 | -9.7 | |
| 1.905 | 10.7 | H | 0.98 | 8.55 | 18.23 | 33.0 | -14.8 | |
| Rev. 10.24.13 | | | | | | | | |

9.1.7. LTE BAND 26

QPSK EIRP POWER FOR LTE BAND 26 (3.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | | | |
|---|---------------------|--------------------------|--------------------|-----------------------|--------------|---------------|--------------------|---------------------|----------------|-------|
| Project #: | | 14U18207 | | | | | | | | |
| Date: | | 7/24/2014 | | | | | | | | |
| Test Engineer: | | O Su | | | | | | | | |
| Configuration: | | EUT only | | | | | | | | |
| Mode: | | LTE Band 26 QPSK 3MHz BW | | | | | | | | |
| <u>Test Equipment:</u> | | | | | | | | | | |
| Receiving: Sunol T408, and Chamber E Cable | | | | | | | | | | |
| Substitution: Dipole S/N: 00022117, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | ERP (dBm) | EIRP (dBm) | ERP Limit (dBm) | EIRP Limit (dBm) | Margin (dB) | Notes |
| Low Ch | | | | | | | | | | |
| 820.30 | 21.94 | V | 0.62 | 0.0 | 21.32 | 23.47 | 38.45 | 40.60 | -17.1 | |
| 820.30 | 15.22 | H | 0.62 | 0.0 | 14.60 | 16.75 | 38.45 | 40.60 | -23.8 | |
| Mid Ch | | | | | | | | | | |
| 821.30 | 21.53 | V | 0.62 | 0.0 | 20.91 | 23.06 | 38.45 | 40.60 | -17.5 | |
| 821.30 | 14.65 | H | 0.62 | 0.0 | 14.03 | 16.18 | 38.45 | 40.60 | -24.4 | |
| High Ch | | | | | | | | | | |
| 822.30 | 21.83 | V | 0.62 | 0.0 | 21.21 | 23.36 | 38.45 | 40.60 | -17.2 | |
| 822.30 | 14.87 | H | 0.62 | 0.0 | 14.25 | 16.40 | 38.45 | 40.60 | -24.2 | |
| Rev. 10.24.13 | | | | | | | | | | |

16QAM EIRP POWER FOR LTE BAND 26 (3.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | | | |
|---|---------------------|---------------------------|--------------------|-----------------------|--------------|---------------|--------------------|---------------------|----------------|-------|
| Project #: | | 14U18207 | | | | | | | | |
| Date: | | 7/24/2014 | | | | | | | | |
| Test Engineer: | | O SU | | | | | | | | |
| Configuration: | | EUT only | | | | | | | | |
| Mode: | | LTE Band 26 16QAM 3MHz BW | | | | | | | | |
| Test Equipment: | | | | | | | | | | |
| Receiving: Sunol T408, and Chamber E Cable | | | | | | | | | | |
| Substitution: Dipole S/N: 00022117, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | ERP (dBm) | EIRP (dBm) | ERP Limit (dBm) | EIRP Limit (dBm) | Margin (dB) | Notes |
| Low Ch | | | | | | | | | | |
| 820.30 | 21.01 | V | 0.62 | 0.0 | 20.39 | 22.54 | 38.45 | 40.60 | -18.1 | |
| 820.30 | 14.24 | H | 0.62 | 0.0 | 13.62 | 15.77 | 38.45 | 40.60 | -24.8 | |
| Mid Ch | | | | | | | | | | |
| 821.30 | 20.65 | V | 0.62 | 0.0 | 20.03 | 22.18 | 38.45 | 40.60 | -18.4 | |
| 821.30 | 13.72 | H | 0.62 | 0.0 | 13.10 | 15.25 | 38.45 | 40.60 | -25.4 | |
| High Ch | | | | | | | | | | |
| 822.30 | 20.88 | V | 0.62 | 0.0 | 20.26 | 22.41 | 38.45 | 40.60 | -18.2 | |
| 822.30 | 13.95 | H | 0.62 | 0.0 | 13.33 | 15.48 | 38.45 | 40.60 | -25.1 | |
| Rev. 10 24 13 | | | | | | | | | | |

QPSK EIRP POWER FOR LTE BAND 26 (5.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | | | |
|---|---------------------|--------------------------|--------------------|-----------------------|--------------|---------------|--------------------|---------------------|----------------|-------|
| Project #: | | 14U18207 | | | | | | | | |
| Date: | | 7/24/2014 | | | | | | | | |
| Test Engineer: | | T Wang | | | | | | | | |
| Configuration: | | EUT only | | | | | | | | |
| Mode: | | LTE Band 26 QPSK 5MHz BW | | | | | | | | |
| Test Equipment: | | | | | | | | | | |
| Receiving: Sunol T408, and Chamber E Cable | | | | | | | | | | |
| Substitution: Dipole S/N: 00022117, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | ERP (dBm) | EIRP (dBm) | ERP Limit (dBm) | EIRP Limit (dBm) | Margin (dB) | Notes |
| Mid Ch | | | | | | | | | | |
| 821.30 | 22.09 | V | 0.62 | 0.0 | 21.47 | 23.62 | 38.45 | 40.60 | -17.0 | |
| 821.30 | 14.70 | H | 0.62 | 0.0 | 14.08 | 16.23 | 38.45 | 40.60 | -24.4 | |
| Rev. 10.24.13 | | | | | | | | | | |

16QAM EIRP POWER FOR LTE BAND 26 (5.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | | | |
|---|---------------------|---------------------------|--------------------|-----------------------|--------------|---------------|--------------------|---------------------|----------------|-------|
| Project #: | | 14U18207 | | | | | | | | |
| Date: | | 7/24/2014 | | | | | | | | |
| Test Engineer: | | T Wang | | | | | | | | |
| Configuration: | | EUT only | | | | | | | | |
| Mode: | | LTE Band 26 16QAM 5MHz BW | | | | | | | | |
| Test Equipment: | | | | | | | | | | |
| Receiving: Sunol T408, and Chamber E Cable | | | | | | | | | | |
| Substitution: Dipole S/N: 00022117, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | ERP (dBm) | EIRP (dBm) | ERP Limit (dBm) | EIRP Limit (dBm) | Margin (dB) | Notes |
| Mid Ch | | | | | | | | | | |
| 821.30 | 21.17 | V | 0.62 | 0.0 | 20.55 | 22.70 | 38.45 | 40.60 | -17.9 | |
| 821.30 | 13.72 | H | 0.62 | 0.0 | 13.10 | 15.25 | 38.45 | 40.60 | -25.4 | |
| Rev. 10.24.13 | | | | | | | | | | |

QPSK EIRP POWER FOR LTE BAND 26 (10.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | | | |
|---|---------------------|---------------------------|--------------------|-----------------------|--------------|---------------|--------------------|---------------------|---------------------|-------|
| Project #: | | 14U18207 | | | | | | | | |
| Date: | | 7/24/2014 | | | | | | | | |
| Test Engineer: | | T Wang | | | | | | | | |
| Configuration: | | EUT only | | | | | | | | |
| Mode: | | LTE Band 26 QPSK 10MHz BW | | | | | | | | |
| Test Equipment: | | | | | | | | | | |
| Receiving: Sunol T408, and Chamber E Cable | | | | | | | | | | |
| Substitution: Dipole S/N: 00022117, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | ERP (dBm) | EIRP (dBm) | ERP Limit (dBm) | EIRP Limit (dBm) | Margin EIRP (dB) | Notes |
| Mid Ch | | | | | | | | | | |
| 819.00 | 22.21 | V | 0.62 | 0.0 | 21.59 | 23.74 | 38.45 | 40.60 | -16.9 | |
| 819.00 | 14.92 | H | 0.62 | 0.0 | 14.30 | 16.45 | 38.45 | 40.60 | -24.2 | |
| | | | | | | | | | | |
| Rev. 10.24.13 | | | | | | | | | | |

16QAM EIRP POWER FOR LTE BAND 26 (10.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | | | |
|---|----------------------------|--------------------|--------------------|-----------------------|--------------|---------------|--------------------|---------------------|----------------|-------|
| Project #: | 14U18207 | | | | | | | | | |
| Date: | 7/24/2014 | | | | | | | | | |
| Test Engineer: | T Wang | | | | | | | | | |
| Configuration: | EUT only | | | | | | | | | |
| Mode: | LTE Band 26 16QAM 10MHz BW | | | | | | | | | |
| Test Equipment: | | | | | | | | | | |
| Receiving: Sunol T408, and Chamber E Cable | | | | | | | | | | |
| Substitution: Dipole S/N: 00022117, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | ERP (dBm) | EIRP (dBm) | ERP Limit (dBm) | EIRP Limit (dBm) | Margin (dB) | Notes |
| Mid Ch | | | | | | | | | | |
| 819.00 | 21.07 | V | 0.62 | 0.0 | 20.45 | 22.60 | 38.45 | 40.60 | -18.0 | |
| 819.00 | 13.93 | H | 0.62 | 0.0 | 13.31 | 15.46 | 38.45 | 40.60 | -25.1 | |
| Rev. 10.24.13 | | | | | | | | | | |

9.1.8. LTE BAND 41

QPSK EIRP POWER FOR LTE BAND 41 (5.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | |
|--|---------------------|--------------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|
| Project #: | | 14U18207 | | | | | | |
| Date: | | 8/1/2014 | | | | | | |
| Test Engineer: | | T Wang | | | | | | |
| Configuration: | | EUT only | | | | | | |
| Mode: | | LTE Band 41 QPSK 5MHz BW | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T346, and Chamber E SMA Cables | | | | | | | | |
| Substitution: Horn T59 Substitution, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes |
| Low Ch | | | | | | | | |
| 2.499 | 18.5 | V | 1.15 | 9.42 | 26.75 | 33.0 | -6.3 | |
| 2.499 | 20.2 | H | 1.15 | 9.55 | 28.62 | 33.0 | -4.4 | |
| Mid Ch | | | | | | | | |
| 2.593 | 19.9 | V | 1.16 | 9.63 | 28.35 | 33.0 | -4.6 | |
| 2.593 | 20.4 | H | 1.16 | 9.69 | 28.97 | 33.0 | -4.0 | |
| High Ch | | | | | | | | |
| 2.688 | 19.4 | V | 1.17 | 9.76 | 28.00 | 33.0 | -5.0 | |
| 2.688 | 20.7 | H | 1.17 | 9.77 | 29.32 | 33.0 | -3.7 | |
| Rev. 10.24.13 | | | | | | | | |

16QAM EIRP POWER FOR LTE BAND 41 (5.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | |
|--|---------------------|---------------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|
| Project #: | | 14U18207 | | | | | | |
| Date: | | 8/1/2014 | | | | | | |
| Test Engineer: | | T Wang | | | | | | |
| Configuration: | | EUT only | | | | | | |
| Mode: | | LTE Band 41 16QAM 5MHz BW | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T346, and Chamber E SMA Cables | | | | | | | | |
| Substitution: Horn T59 Substitution, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes |
| Low Ch | | | | | | | | |
| 2.499 | 17.8 | V | 1.15 | 9.42 | 26.05 | 33.0 | -7.0 | |
| 2.499 | 19.5 | H | 1.15 | 9.55 | 27.95 | 33.0 | -5.1 | |
| Mid Ch | | | | | | | | |
| 2.593 | 18.9 | V | 1.16 | 9.63 | 27.34 | 33.0 | -5.7 | |
| 2.593 | 20.2 | H | 1.16 | 9.69 | 28.76 | 33.0 | -4.2 | |
| High Ch | | | | | | | | |
| 2.688 | 18.6 | V | 1.17 | 9.76 | 27.24 | 33.0 | -5.8 | |
| 2.688 | 20.4 | H | 1.17 | 9.77 | 29.00 | 33.0 | -4.0 | |
| Rev. 10.24.13 | | | | | | | | |

QPSK EIRP POWER FOR LTE BAND 41 (10.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | |
|--|---------------------|---------------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|
| Project #: | | 14U18207 | | | | | | |
| Date: | | 8/1/2014 | | | | | | |
| Test Engineer: | | T Wang | | | | | | |
| Configuration: | | EUT only | | | | | | |
| Mode: | | LTE Band 41 QPSK 10MHz BW | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T346, and Chamber E SMA Cables | | | | | | | | |
| Substitution: Horn T59 Substitution, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes |
| Low Ch | | | | | | | | |
| 2.501 | 18.7 | V | 1.15 | 9.42 | 27.00 | 33.0 | -6.0 | |
| 2.501 | 20.9 | H | 1.15 | 9.55 | 29.27 | 33.0 | -3.7 | |
| Mid Ch | | | | | | | | |
| 2.593 | 18.4 | V | 1.16 | 9.63 | 26.89 | 33.0 | -6.1 | |
| 2.593 | 20.9 | H | 1.16 | 9.69 | 29.41 | 33.0 | -3.6 | |
| High Ch | | | | | | | | |
| 2.685 | 19.4 | V | 1.17 | 9.76 | 28.00 | 33.0 | -5.0 | |
| 2.685 | 20.7 | H | 1.17 | 9.77 | 29.28 | 33.0 | -3.7 | |
| Rev. 10.24.13 | | | | | | | | |

16QAM EIRP POWER FOR LTE BAND 41 (10.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | |
|--|---------------------|----------------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|
| Project #: | | 14U18207 | | | | | | |
| Date: | | 8/1/2014 | | | | | | |
| Test Engineer: | | T Wang | | | | | | |
| Configuration: | | EUT only | | | | | | |
| Mode: | | LTE Band 41 16QAM 10MHz BW | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T346, and Chamber E SMA Cables | | | | | | | | |
| Substitution: Horn T59 Substitution, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes |
| Low Ch | | | | | | | | |
| 2.501 | 18.0 | V | 1.15 | 9.42 | 26.28 | 33.0 | -6.7 | |
| 2.501 | 20.2 | H | 1.15 | 9.55 | 28.62 | 33.0 | -4.4 | |
| Mid Ch | | | | | | | | |
| 2.593 | 17.8 | V | 1.16 | 9.63 | 26.31 | 33.0 | -6.7 | |
| 2.593 | 20.0 | H | 1.16 | 9.69 | 28.49 | 33.0 | -4.5 | |
| High Ch | | | | | | | | |
| 2.685 | 18.8 | V | 1.17 | 9.76 | 27.44 | 33.0 | -5.6 | |
| 2.685 | 20.0 | H | 1.17 | 9.77 | 28.56 | 33.0 | -4.4 | |
| Rev. 10.24.13 | | | | | | | | |

QPSK EIRP POWER FOR LTE BAND 41 (15.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | |
|--|---------------------|---------------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|
| Project #: | | 14U18207 | | | | | | |
| Date: | | 8/1/2014 | | | | | | |
| Test Engineer: | | T Wang | | | | | | |
| Configuration: | | EUT only | | | | | | |
| Mode: | | LTE Band 41 QPSK 15MHz BW | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T346, and Chamber E SMA Cables | | | | | | | | |
| Substitution: Horn T59 Substitution, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes |
| Low Ch | | | | | | | | |
| 2.504 | 19.0 | V | 1.15 | 9.42 | 27.26 | 33.0 | -5.7 | |
| 2.504 | 21.6 | H | 1.15 | 9.55 | 29.95 | 33.0 | -3.0 | |
| Mid Ch | | | | | | | | |
| 2.593 | 20.0 | V | 1.16 | 9.63 | 28.49 | 33.0 | -4.5 | |
| 2.593 | 20.7 | H | 1.16 | 9.69 | 29.22 | 33.0 | -3.8 | |
| High Ch | | | | | | | | |
| 2.683 | 19.1 | V | 1.17 | 9.76 | 27.70 | 33.0 | -5.3 | |
| 2.683 | 21.3 | H | 1.17 | 9.77 | 29.86 | 33.0 | -3.1 | |
| Rev. 10.24.13 | | | | | | | | |

16QAM EIRP POWER FOR LTE BAND 41 (15.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | |
|--|---------------------|----------------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|
| Project #: | | 14U18207 | | | | | | |
| Date: | | 8/1/2014 | | | | | | |
| Test Engineer: | | T Wang | | | | | | |
| Configuration: | | EUT only | | | | | | |
| Mode: | | LTE Band 41 16QAM 15MHz BW | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T346, and Chamber E SMA Cables | | | | | | | | |
| Substitution: Horn T59 Substitution, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes |
| Low Ch | | | | | | | | |
| 2.504 | 18.0 | V | 1.15 | 9.42 | 26.31 | 33.0 | -6.7 | |
| 2.504 | 20.9 | H | 1.15 | 9.55 | 29.28 | 33.0 | -3.7 | |
| Mid Ch | | | | | | | | |
| 2.593 | 19.2 | V | 1.16 | 9.63 | 27.66 | 33.0 | -5.3 | |
| 2.593 | 20.5 | H | 1.16 | 9.69 | 29.01 | 33.0 | -4.0 | |
| High Ch | | | | | | | | |
| 2.683 | 18.4 | V | 1.17 | 9.76 | 27.00 | 33.0 | -6.0 | |
| 2.683 | 20.9 | H | 1.17 | 9.77 | 29.54 | 33.0 | -3.5 | |
| Rev. 10.24.13 | | | | | | | | |

QPSK EIRP POWER FOR LTE BAND 41 (20.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | |
|--|---------------------|---------------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|
| Project #: | | 14U18207 | | | | | | |
| Date: | | 8/1/2014 | | | | | | |
| Test Engineer: | | T Wang | | | | | | |
| Configuration: | | EUT only | | | | | | |
| Mode: | | LTE Band 41 QPSK 20MHz BW | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T346, and Chamber E SMA Cables | | | | | | | | |
| Substitution: Horn T59 Substitution, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes |
| Low Ch | | | | | | | | |
| 2.506 | 18.5 | V | 1.15 | 9.42 | 26.75 | 33.0 | -6.3 | |
| 2.506 | 21.5 | H | 1.15 | 9.55 | 29.88 | 33.0 | -3.1 | |
| Mid Ch | | | | | | | | |
| 2.593 | 20.0 | V | 1.16 | 9.63 | 28.51 | 33.0 | -4.5 | |
| 2.593 | 21.2 | H | 1.16 | 9.69 | 29.75 | 33.0 | -3.3 | |
| High Ch | | | | | | | | |
| 2.680 | 19.5 | V | 1.17 | 9.76 | 28.10 | 33.0 | -4.9 | |
| 2.680 | 21.5 | H | 1.17 | 9.77 | 30.06 | 33.0 | -2.9 | |
| Rev. 10.24.13 | | | | | | | | |

16QAM EIRP POWER FOR LTE BAND 41 (20.0MHZ BANDWIDTH)

| High Frequency Substitution Measurement UL Fremont Radiated Chamber E | | | | | | | | |
|--|---------------------|----------------------------|--------------------|-----------------------|---------------|----------------|---------------------|-------|
| Project #: | | 14U18207 | | | | | | |
| Date: | | 8/1/2014 | | | | | | |
| Test Engineer: | | T Wang | | | | | | |
| Configuration: | | EUT only | | | | | | |
| Mode: | | LTE Band 41 16QAM 20MHz BW | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T346, and Chamber E SMA Cables | | | | | | | | |
| Substitution: Horn T59 Substitution, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin EIRP (dB) | Notes |
| Low Ch | | | | | | | | |
| 2.506 | 17.7 | V | 1.15 | 9.42 | 25.95 | 33.0 | -7.1 | |
| 2.506 | 21.1 | H | 1.15 | 9.55 | 29.48 | 33.0 | -3.5 | |
| Mid Ch | | | | | | | | |
| 2.593 | 19.2 | V | 1.16 | 9.63 | 27.65 | 33.0 | -5.3 | |
| 2.593 | 20.5 | H | 1.16 | 9.69 | 28.98 | 33.0 | -4.0 | |
| High Ch | | | | | | | | |
| 2.680 | 18.8 | V | 1.17 | 9.76 | 27.41 | 33.0 | -5.6 | |
| 2.680 | 21.0 | H | 1.17 | 9.77 | 29.56 | 33.0 | -3.4 | |
| Rev. 10.24.13 | | | | | | | | |

9.2. PEAK-TO-AVERAGE RATIO

In addition, when the transmitter power is measured in terms of average value, the peak-to-average ratio of the power shall not exceed 13 dB

Note: 0.0001% data on all mode were used for PAR as the worst case condition

9.2.1. LTE BAND 2

| Mode | Channel Band-width (MHZ) | f (MHz) | Modulation | Conducted Power (dBm) | | Peak-to-Average Ratio (PAR) |
|---|--------------------------|---------|------------|-----------------------|---------|-----------------------------|
| | | | | *Peak | Average | |
| LTE Band 2 RB1-0 | 1.4 | 1880.0 | QPSK | 28.39 | 23.41 | 4.98 |
| | | | 16QAM | 28.61 | 22.54 | 6.07 |
| *Peak Reading = Average Reading + Peak-to-Average Ratio | | | | | | |

| Mode | Channel Band-width (MHZ) | f (MHz) | Modulation | Conducted Power (dBm) | | Peak-to-Average Ratio (PAR) |
|---|--------------------------|---------|------------|-----------------------|---------|-----------------------------|
| | | | | *Peak | Average | |
| LTE Band 2 RB1-0 | 3.0 | 1880.0 | QPSK | 28.70 | 23.50 | 5.20 |
| | | | 16QAM | 28.33 | 22.50 | 5.83 |
| *Peak Reading = Average Reading + Peak-to-Average Ratio | | | | | | |

| Mode | Channel Band-width (MHZ) | f (MHz) | Modulation | Conducted Power (dBm) | | Peak-to-Average Ratio (PAR) |
|---|--------------------------|---------|------------|-----------------------|---------|-----------------------------|
| | | | | *Peak | Average | |
| LTE Band 2 RB1-0 | 5.0 | 1880.0 | QPSK | 28.48 | 23.48 | 5.00 |
| | | | 16QAM | 28.29 | 22.41 | 5.88 |
| *Peak Reading = Average Reading + Peak-to-Average Ratio | | | | | | |

| Mode | Channel Band-width (MHZ) | f (MHz) | Modulation | Conducted Power (dBm) | | Peak-to-Average Ratio (PAR) |
|---|--------------------------|---------|------------|-----------------------|---------|-----------------------------|
| | | | | *Peak | Average | |
| LTE Band 2 RB1-0 | 10.0 | 1880.0 | QPSK | 28.47 | 23.53 | 4.94 |
| | | | 16QAM | 28.3 | 22.55 | 5.75 |
| *Peak Reading = Average Reading + Peak-to-Average Ratio | | | | | | |

| Mode | Channel Band-width (MHZ) | f (MHz) | Modulation | Conducted Power (dBm) | | Peak-to-Average Ratio (PAR) |
|---|--------------------------|---------|------------|-----------------------|---------|-----------------------------|
| | | | | *Peak | Average | |
| LTE Band 2 RB1-0 | 15.0 | 1880.0 | QPSK | 28.37 | 23.45 | 4.92 |
| | | | 16QAM | 28.19 | 22.48 | 5.71 |
| *Peak Reading = Average Reading + Peak-to-Average Ratio | | | | | | |

| Mode | Channel Band-width (MHZ) | f (MHz) | Modulation | Conducted Power (dBm) | | Peak-to-Average Ratio (PAR) |
|---|--------------------------|---------|------------|-----------------------|---------|-----------------------------|
| | | | | *Peak | Average | |
| LTE Band 2 RB1-0 | 20.0 | 1880.0 | QPSK | 28.36 | 23.3 | 5.06 |
| | | | 16QAM | 28.17 | 22.36 | 5.81 |
| *Peak Reading = Average Reading + Peak-to-Average Ratio | | | | | | |

9.2.2. LTE BAND 4

| Mode | Channel Band-width (MHZ) | f (MHz) | Modulation | Conducted Power (dBm) | | Peak-to-Average Ratio (PAR) |
|---|--------------------------|---------|------------|-----------------------|---------|-----------------------------|
| | | | | *Peak | Average | |
| LTE Band 4 RB1-0 | 1.4 | 1732.5 | QPSK | 28.71 | 23.51 | 5.20 |
| | | | 16QAM | 28.72 | 22.58 | 6.14 |
| *Peak Reading = Average Reading + Peak-to-Average Ratio | | | | | | |

| Mode | Channel Band-width (MHZ) | f (MHz) | Modulation | Conducted Power (dBm) | | Peak-to-Average Ratio (PAR) |
|---|--------------------------|---------|------------|-----------------------|---------|-----------------------------|
| | | | | *Peak | Average | |
| LTE Band 4 RB1-0 | 3.0 | 1732.5 | QPSK | 28.72 | 23.51 | 5.21 |
| | | | 16QAM | 26.92 | 22.48 | 4.44 |
| *Peak Reading = Average Reading + Peak-to-Average Ratio | | | | | | |

| Mode | Channel Band-width (MHZ) | f (MHz) | Modulation | Conducted Power (dBm) | | Peak-to-Average Ratio (PAR) |
|---|--------------------------|---------|------------|-----------------------|---------|-----------------------------|
| | | | | *Peak | Average | |
| LTE Band 4 RB1-0 | 5.0 | 1732.5 | QPSK | 28.48 | 23.39 | 5.09 |
| | | | 16QAM | 26.84 | 22.29 | 4.55 |
| *Peak Reading = Average Reading + Peak-to-Average Ratio | | | | | | |

| Mode | Channel Band-width (MHZ) | f (MHz) | Modulation | Conducted Power (dBm) | | Peak-to-Average Ratio (PAR) |
|---|--------------------------|---------|------------|-----------------------|---------|-----------------------------|
| | | | | *Peak | Average | |
| LTE Band 4 RB1-0 | 10.0 | 1732.5 | QPSK | 28.29 | 23.51 | 4.78 |
| | | | 16QAM | 28.33 | 22.50 | 5.83 |
| *Peak Reading = Average Reading + Peak-to-Average Ratio | | | | | | |

| Mode | Channel Band-width (MHZ) | f (MHz) | Modulation | Conducted Power (dBm) | | Peak-to-Average Ratio (PAR) |
|---|--------------------------|---------|------------|-----------------------|---------|-----------------------------|
| | | | | *Peak | Average | |
| LTE Band 4 RB1-0 | 15.0 | 1732.5 | QPSK | 28.13 | 23.45 | 4.68 |
| | | | 16QAM | 28.07 | 22.48 | 5.59 |
| *Peak Reading = Average Reading + Peak-to-Average Ratio | | | | | | |

| Mode | Channel Band-width (MHZ) | f (MHz) | Modulation | Conducted Power (dBm) | | Peak-to-Average Ratio (PAR) |
|---|--------------------------|---------|------------|-----------------------|---------|-----------------------------|
| | | | | *Peak | Average | |
| LTE Band 4 RB1-0 | 20.0 | 1732.5 | QPSK | 28.12 | 23.47 | 4.65 |
| | | | 16QAM | 28.05 | 22.46 | 5.59 |
| *Peak Reading = Average Reading + Peak-to-Average Ratio | | | | | | |

9.2.3. LTE BAND 5

| Mode | Channel Band-width (MHZ) | f (MHz) | Modulation | Conducted Power (dBm) | | Peak-to-Average Ratio (PAR) |
|---|--------------------------|---------|------------|-----------------------|---------|-----------------------------|
| | | | | *Peak | Average | |
| LTE Band 5 RB1-0 | 1.4 | 836.5 | QPSK | 28.98 | 23.84 | 5.14 |
| | | | 16QAM | 29.18 | 22.99 | 6.19 |
| *Peak Reading = Average Reading + Peak-to-Average Ratio | | | | | | |

| Mode | Channel Band-width (MHZ) | f (MHz) | Modulation | Conducted Power (dBm) | | Peak-to-Average Ratio (PAR) |
|---|--------------------------|---------|------------|-----------------------|---------|-----------------------------|
| | | | | *Peak | Average | |
| LTE Band 5 RB1-0 | 3.0 | 836.5 | QPSK | 29.26 | 23.97 | 5.29 |
| | | | 16QAM | 29.07 | 23.01 | 6.06 |
| *Peak Reading = Average Reading + Peak-to-Average Ratio | | | | | | |

| Mode | Channel Band-width (MHZ) | f (MHz) | Modulation | Conducted Power (dBm) | | Peak-to-Average Ratio (PAR) |
|---|--------------------------|---------|------------|-----------------------|---------|-----------------------------|
| | | | | *Peak | Average | |
| LTE Band 5 RB1-0 | 5.0 | 836.5 | QPSK | 29.1 | 23.88 | 5.22 |
| | | | 16QAM | 28.97 | 22.83 | 6.14 |
| *Peak Reading = Average Reading + Peak-to-Average Ratio | | | | | | |

| Mode | Channel Band-width (MHZ) | f (MHz) | Modulation | Conducted Power (dBm) | | Peak-to-Average Ratio (PAR) |
|---|--------------------------|---------|------------|-----------------------|---------|-----------------------------|
| | | | | *Peak | Average | |
| LTE Band 5 RB1-0 | 10.0 | 836.5 | QPSK | 28.92 | 24.00 | 4.92 |
| | | | 16QAM | 28.75 | 23.02 | 5.73 |
| *Peak Reading = Average Reading + Peak-to-Average Ratio | | | | | | |

9.2.4. LTE BAND 13

| Mode | Channel Band-width (MHZ) | f (MHz) | Modulation | Conducted Power (dBm) | | Peak-to-Average Ratio (PAR) |
|---|--------------------------|---------|------------|-----------------------|---------|-----------------------------|
| | | | | *Peak | Average | |
| LTE Band 13 RB1-0 | 5.0 | 782.0 | QPSK | 29.14 | 24.09 | 5.05 |
| | | | 16QAM | 29.01 | 23.07 | 5.94 |
| *Peak Reading = Average Reading + Peak-to-Average Ratio | | | | | | |

| Mode | Channel Band-width (MHZ) | f (MHz) | Modulation | Conducted Power (dBm) | | Peak-to-Average Ratio (PAR) |
|---|--------------------------|---------|------------|-----------------------|---------|-----------------------------|
| | | | | *Peak | Average | |
| LTE Band 13 RB1-0 | 10.0 | 782.0 | QPSK | 28.86 | 23.99 | 4.87 |
| | | | 16QAM | 28.77 | 23.03 | 5.74 |
| *Peak Reading = Average Reading + Peak-to-Average Ratio | | | | | | |

9.2.5. LTE BAND 17

| Mode | Channel Band-width (MHZ) | f (MHz) | Modulation | Conducted Power (dBm) | | Peak-to-Average Ratio (PAR) |
|---|--------------------------|---------|------------|-----------------------|---------|-----------------------------|
| | | | | *Peak | Average | |
| LTE Band 17 RB1-0 | 5.0 | 710.0 | QPSK | 28.57 | 23.94 | 4.63 |
| | | | 16QAM | 28.55 | 22.92 | 5.63 |
| *Peak Reading = Average Reading + Peak-to-Average Ratio | | | | | | |

| Mode | Channel Band-width (MHZ) | f (MHz) | Modulation | Conducted Power (dBm) | | Peak-to-Average Ratio (PAR) |
|---|--------------------------|---------|------------|-----------------------|---------|-----------------------------|
| | | | | *Peak | Average | |
| LTE Band 17 RB1-0 | 10.0 | 710.0 | QPSK | 28.88 | 24.08 | 4.80 |
| | | | 16QAM | 28.76 | 23.11 | 5.65 |
| *Peak Reading = Average Reading + Peak-to-Average Ratio | | | | | | |

9.2.6. LTE BAND 25

| Mode | Channel Band-width (MHZ) | f (MHz) | Modulation | Conducted Power (dBm) | | Peak-to-Average Ratio (PAR) |
|---|--------------------------|---------|------------|-----------------------|---------|-----------------------------|
| | | | | *Peak | Average | |
| LTE Band 25 RB1-0 | 1.4 | 1880.0 | QPSK | 28.45 | 23.47 | 4.98 |
| | | | 16QAM | 28.69 | 22.59 | 6.10 |
| *Peak Reading = Average Reading + Peak-to-Average Ratio | | | | | | |

| Mode | Channel Band-width (MHZ) | f (MHz) | Modulation | Conducted Power (dBm) | | Peak-to-Average Ratio (PAR) |
|---|--------------------------|---------|------------|-----------------------|---------|-----------------------------|
| | | | | *Peak | Average | |
| LTE Band 25 RB1-0 | 3.0 | 1880.0 | QPSK | 28.46 | 23.39 | 5.07 |
| | | | 16QAM | 28.20 | 22.41 | 5.79 |
| *Peak Reading = Average Reading + Peak-to-Average Ratio | | | | | | |

| Mode | Channel Band-width (MHZ) | f (MHz) | Modulation | Conducted Power (dBm) | | Peak-to-Average Ratio (PAR) |
|---|--------------------------|---------|------------|-----------------------|---------|-----------------------------|
| | | | | *Peak | Average | |
| LTE Band 25 RB1-0 | 5.0 | 1880.0 | QPSK | 28.36 | 23.30 | 5.06 |
| | | | 16QAM | 28.13 | 22.18 | 5.95 |
| *Peak Reading = Average Reading + Peak-to-Average Ratio | | | | | | |

| Mode | Channel Band-width (MHZ) | f (MHz) | Modulation | Conducted Power (dBm) | | Peak-to-Average Ratio (PAR) |
|---|--------------------------|---------|------------|-----------------------|---------|-----------------------------|
| | | | | *Peak | Average | |
| LTE Band 25 RB1-0 | 10.0 | 1880.0 | QPSK | 28.41 | 23.45 | 4.96 |
| | | | 16QAM | 28.24 | 22.52 | 5.72 |
| *Peak Reading = Average Reading + Peak-to-Average Ratio | | | | | | |

| Mode | Channel Band-width (MHZ) | f (MHz) | Modulation | Conducted Power (dBm) | | Peak-to-Average Ratio (PAR) |
|---|--------------------------|---------|------------|-----------------------|---------|-----------------------------|
| | | | | *Peak | Average | |
| LTE Band 25 RB1-0 | 15.0 | 1880.0 | QPSK | 28.27 | 23.41 | 4.86 |
| | | | 16QAM | 28.21 | 22.46 | 5.75 |
| *Peak Reading = Average Reading + Peak-to-Average Ratio | | | | | | |

| Mode | Channel Band-width (MHZ) | f (MHz) | Modulation | Conducted Power (dBm) | | Peak-to-Average Ratio (PAR) |
|---|--------------------------|---------|------------|-----------------------|---------|-----------------------------|
| | | | | *Peak | Average | |
| LTE Band 25 RB1-0 | 20.0 | 1880.0 | QPSK | 28.20 | 23.16 | 5.04 |
| | | | 16QAM | 27.99 | 22.19 | 5.80 |
| *Peak Reading = Average Reading + Peak-to-Average Ratio | | | | | | |

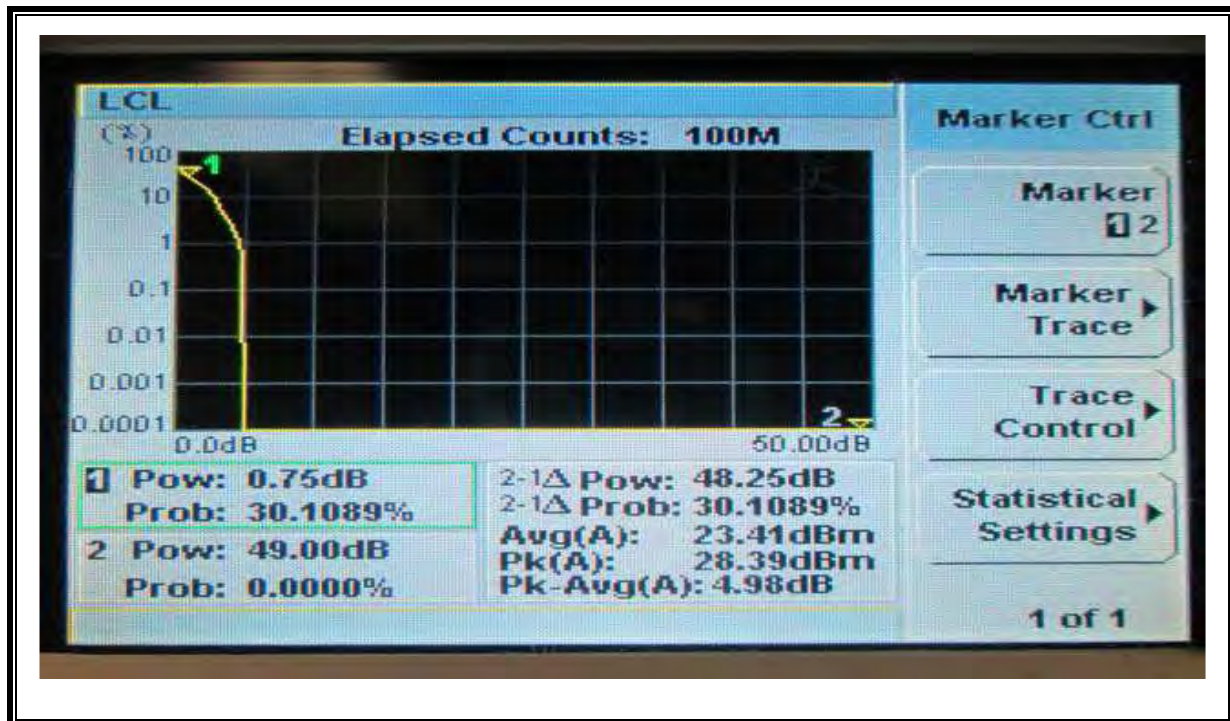
9.2.7. LTE BAND 26

| Mode | Channel Band-width (MHZ) | f (MHz) | Modulation | Conducted Power (dBm) | | Peak-to-Average Ratio (PAR) |
|---|--------------------------|---------|------------|-----------------------|---------|-----------------------------|
| | | | | *Peak | Average | |
| LTE Band 26 RB1-0 | 3.0 | 821.3 | QPSK | 28.52 | 23.51 | 5.01 |
| | | | 16QAM | 28.37 | 22.52 | 5.85 |
| *Peak Reading = Average Reading + Peak-to-Average Ratio | | | | | | |

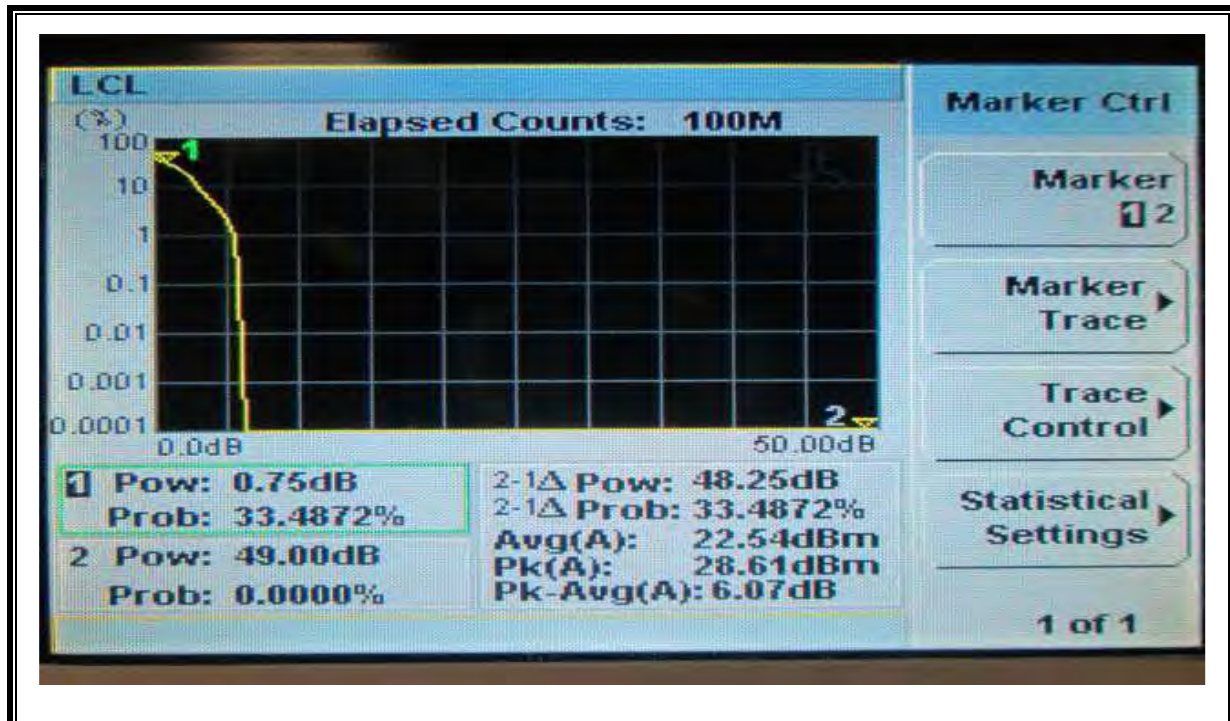
| Mode | Channel Band-width (MHZ) | f (MHz) | Modulation | Conducted Power (dBm) | | Peak-to-Average Ratio (PAR) |
|---|--------------------------|---------|------------|-----------------------|---------|-----------------------------|
| | | | | *Peak | Average | |
| LTE Band 26 RB1-0 | 5.0 | 821.3 | QPSK | 28.34 | 23.42 | 4.92 |
| | | | 16QAM | 28.24 | 22.29 | 5.95 |
| *Peak Reading = Average Reading + Peak-to-Average Ratio | | | | | | |

| Mode | Channel Band-width (MHZ) | f (MHz) | Modulation | Conducted Power (dBm) | | Peak-to-Average Ratio (PAR) |
|---|--------------------------|---------|------------|-----------------------|---------|-----------------------------|
| | | | | *Peak | Average | |
| LTE Band 26 RB1-0 | 10.0 | 819.0 | QPSK | 28.20 | 23.49 | 4.71 |
| | | | 16QAM | 28.16 | 22.52 | 5.64 |
| *Peak Reading = Average Reading + Peak-to-Average Ratio | | | | | | |

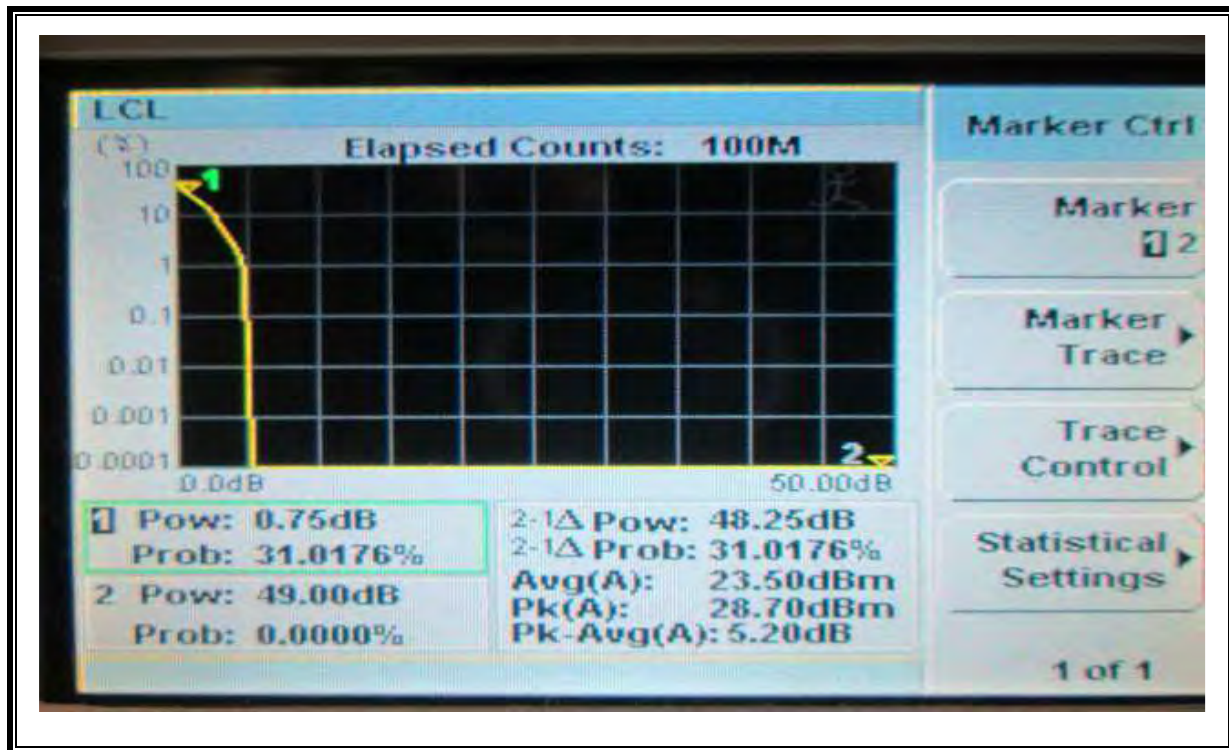
QPSK Band 2 (1.4 MHz BAND WIDTH)



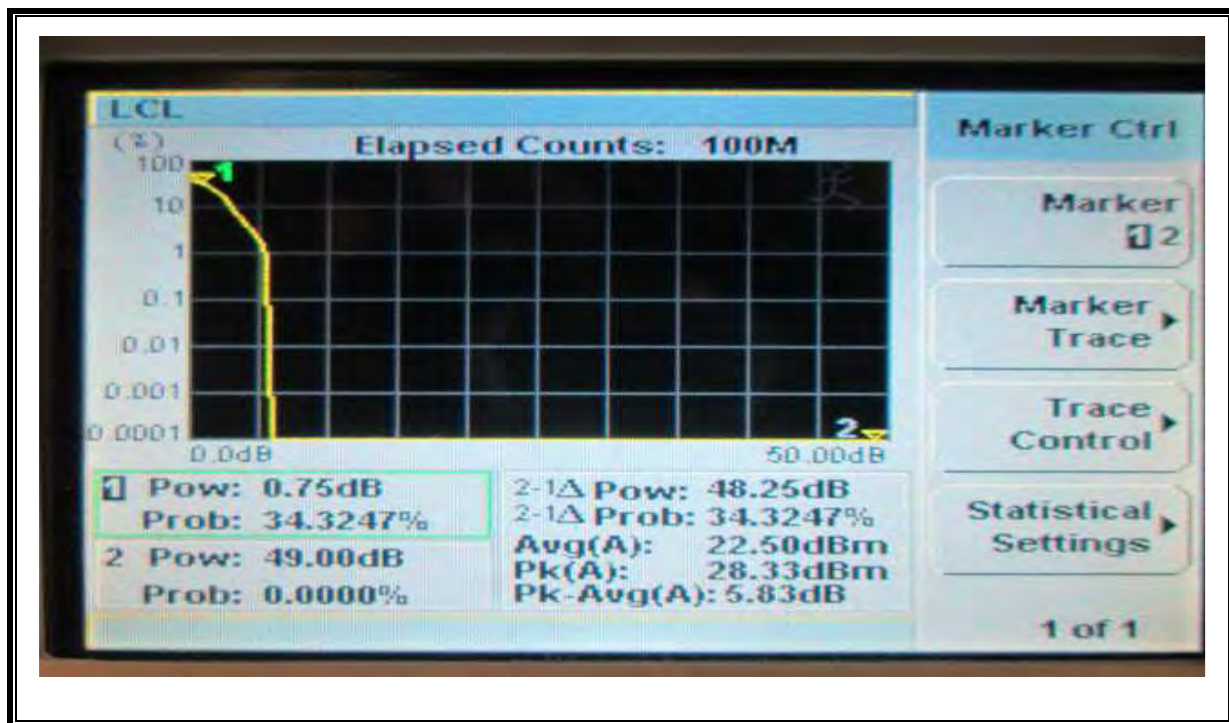
16QAM Band 2 (1.4 MHz BAND WIDTH)



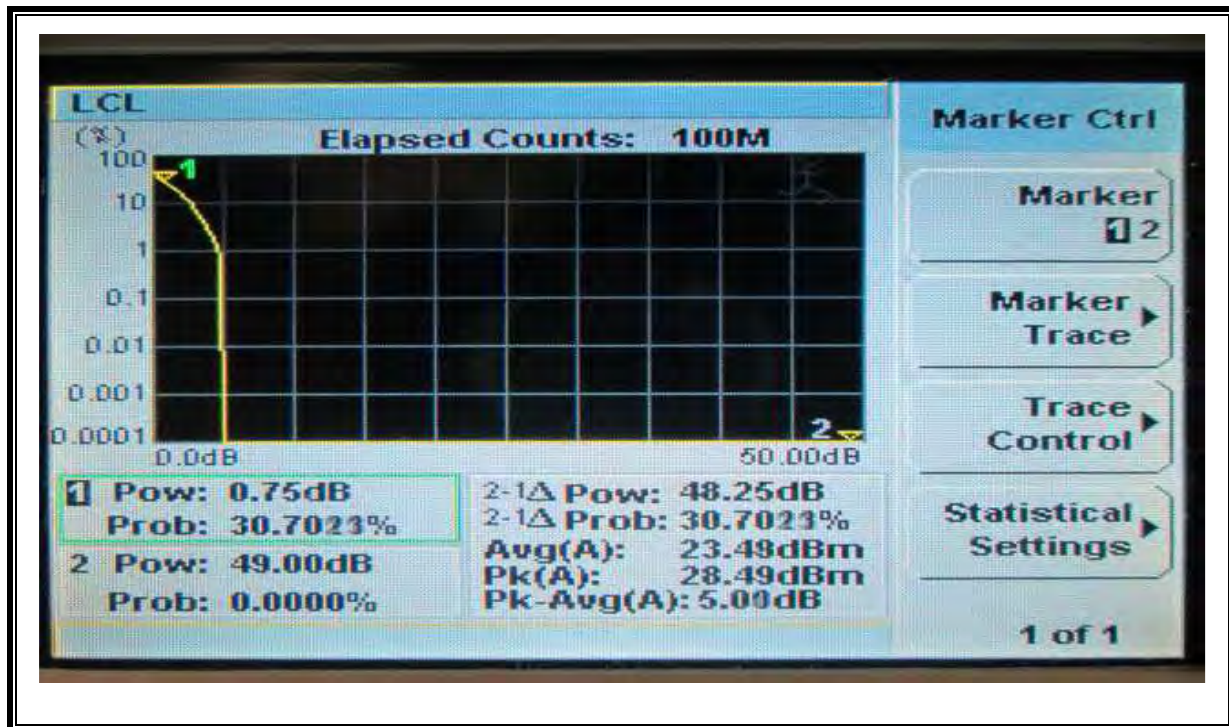
LTE QPSK Band 2 (3 MHz BAND WIDTH)



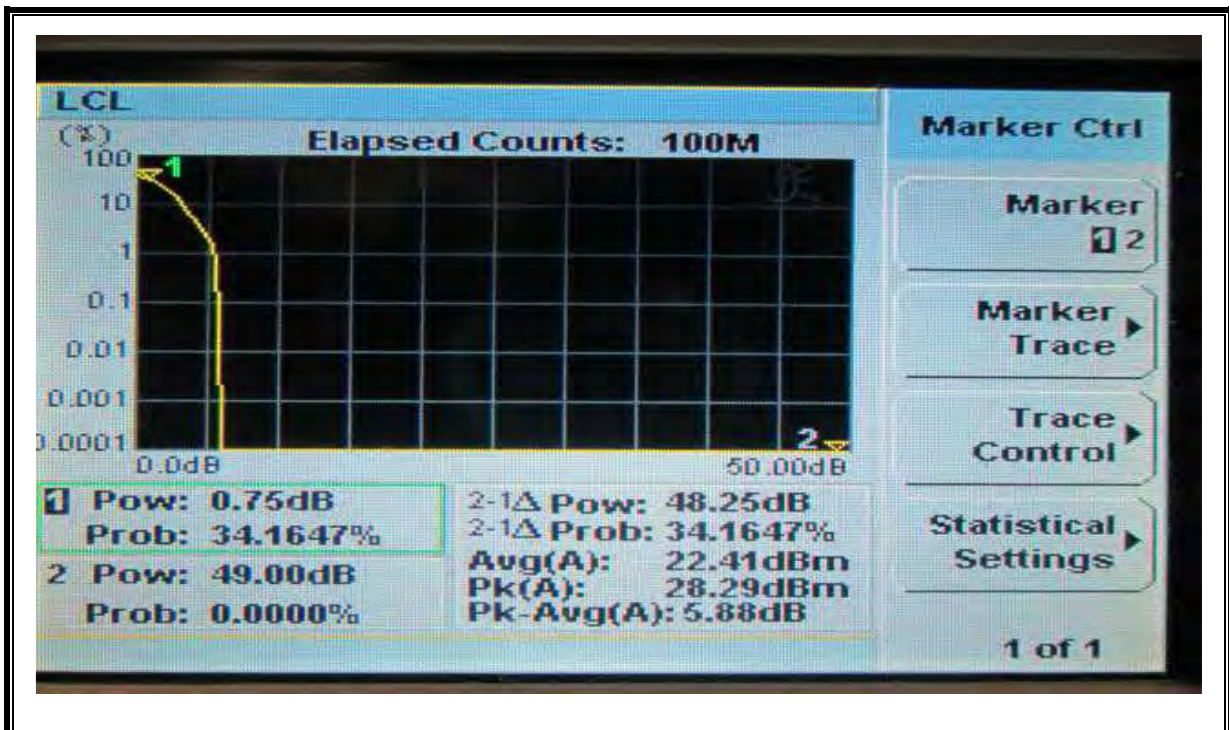
LTE 16QAM Band 2 (3 MHz BAND WIDTH)



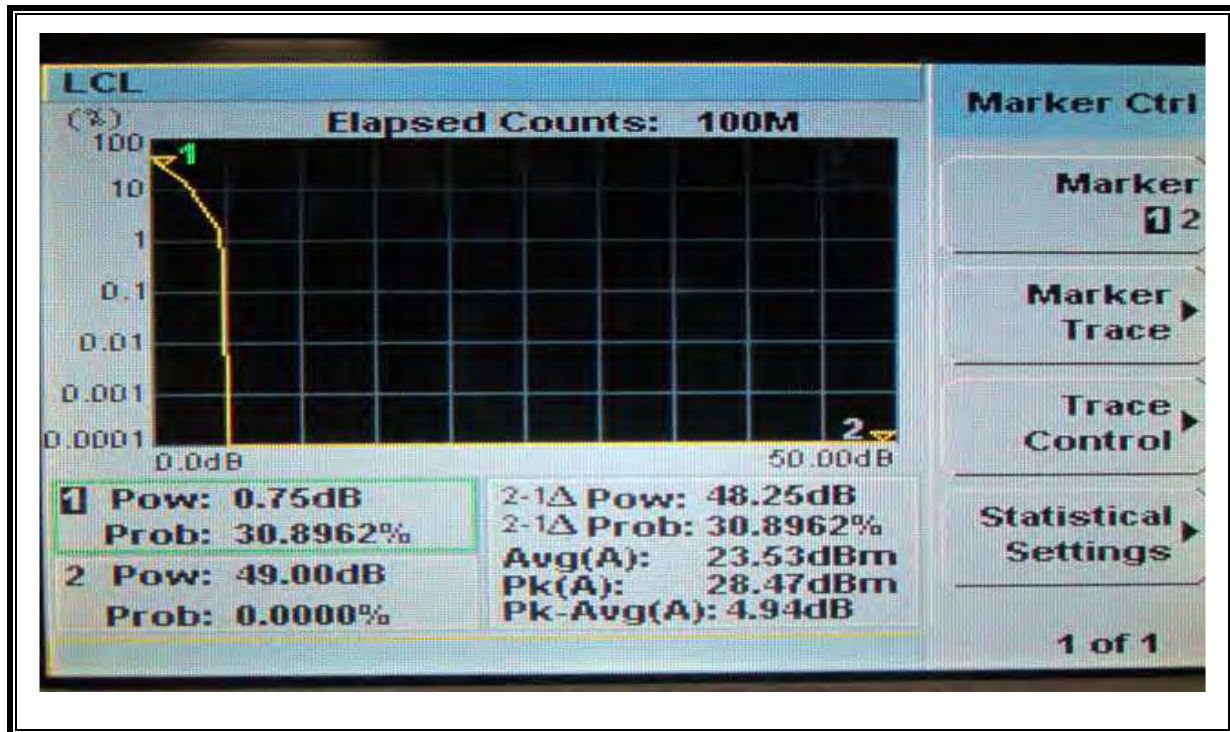
LTE QPSK Band 2 (5 MHz BAND WIDTH)



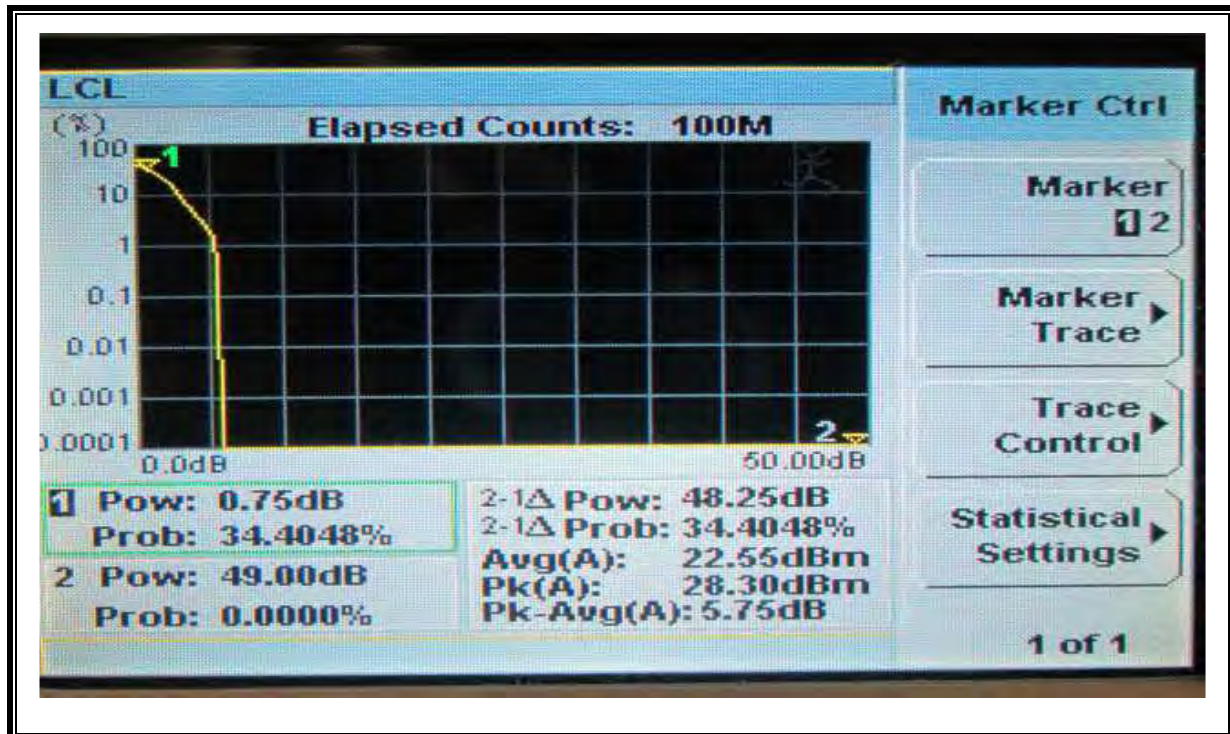
LTE 16QAM Band 2 (5 MHz BAND WIDTH)



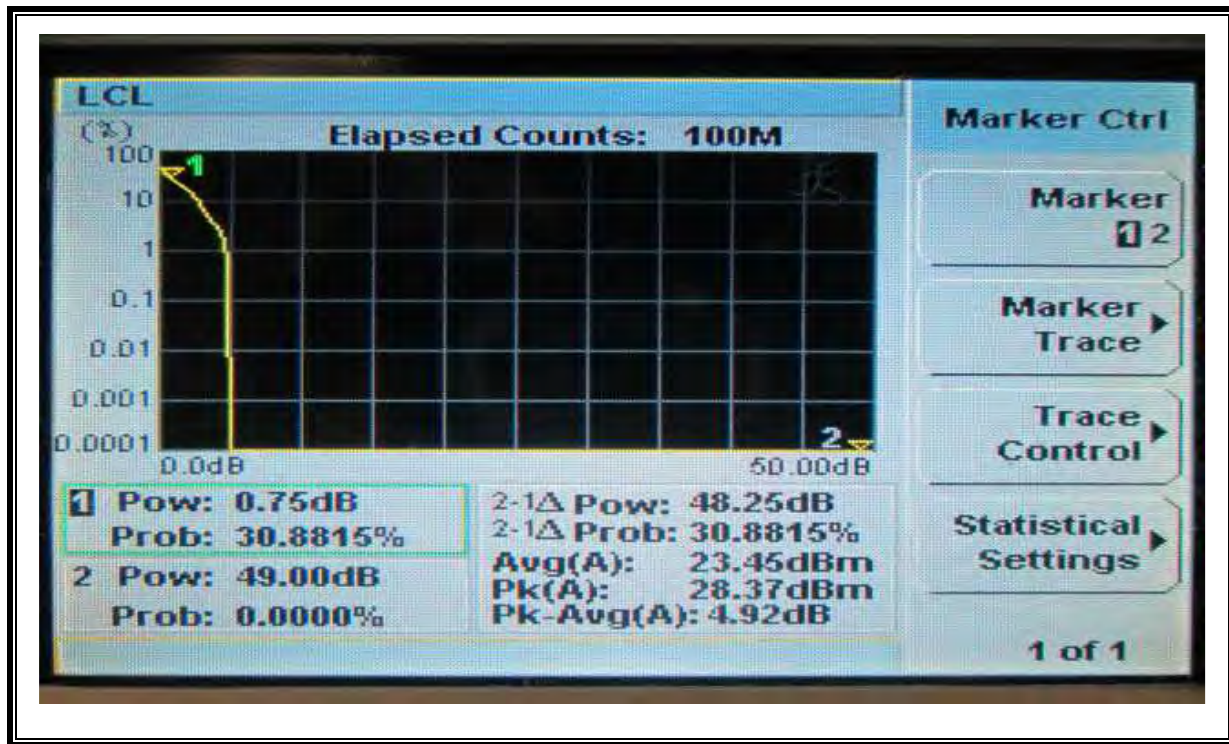
LTE QPSK Band 2 (10 MHz BAND WIDTH)



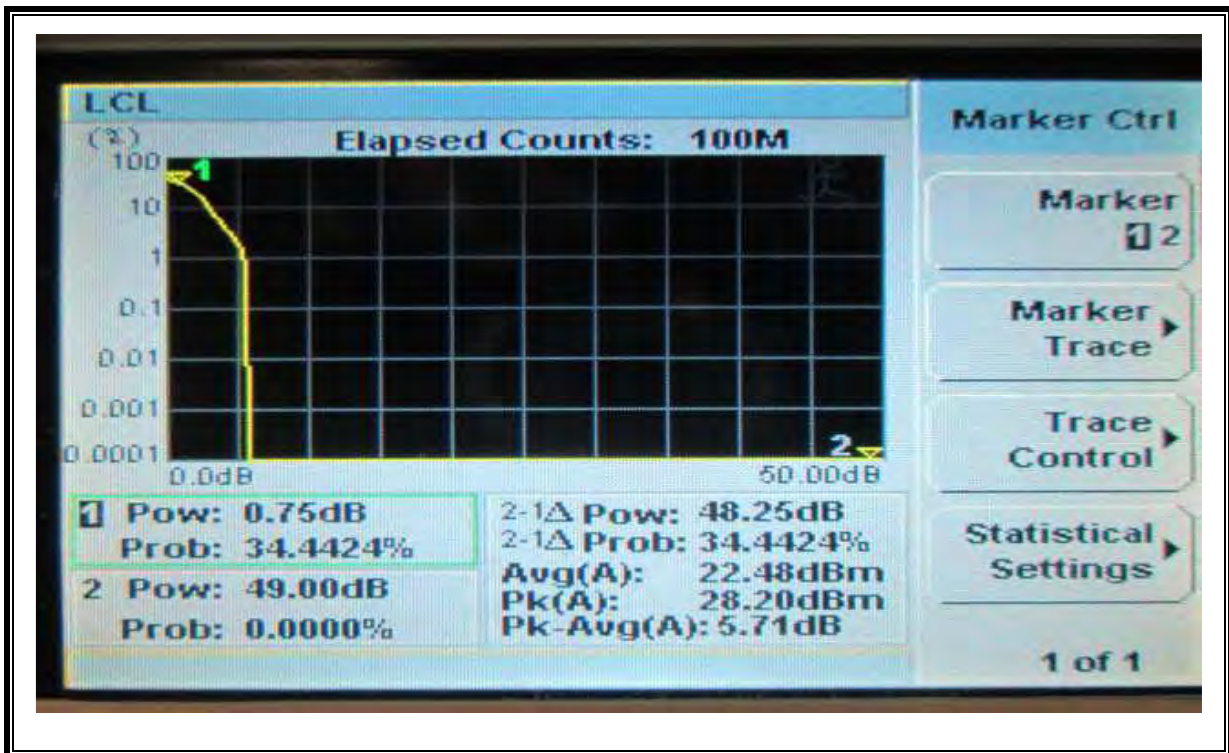
LTE 16QAM Band 2 (10 MHz BAND WIDTH)



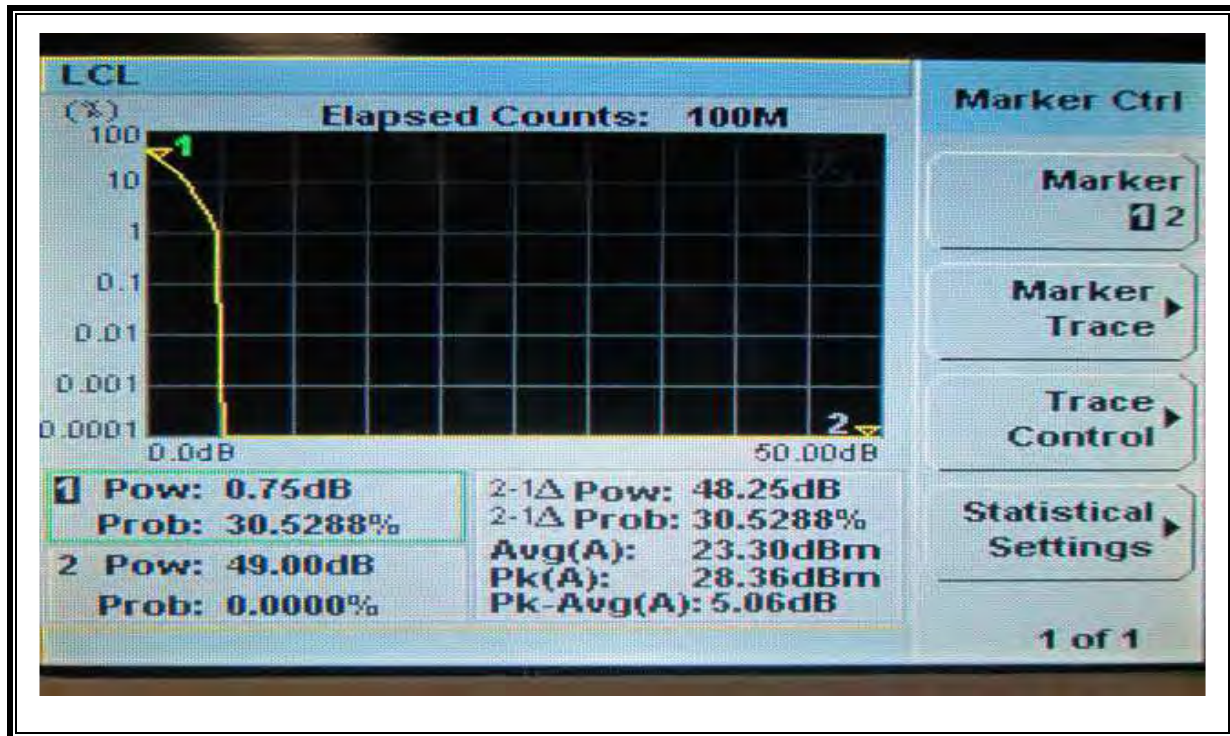
LTE QPSK Band 2 (15 MHz BAND WIDTH)



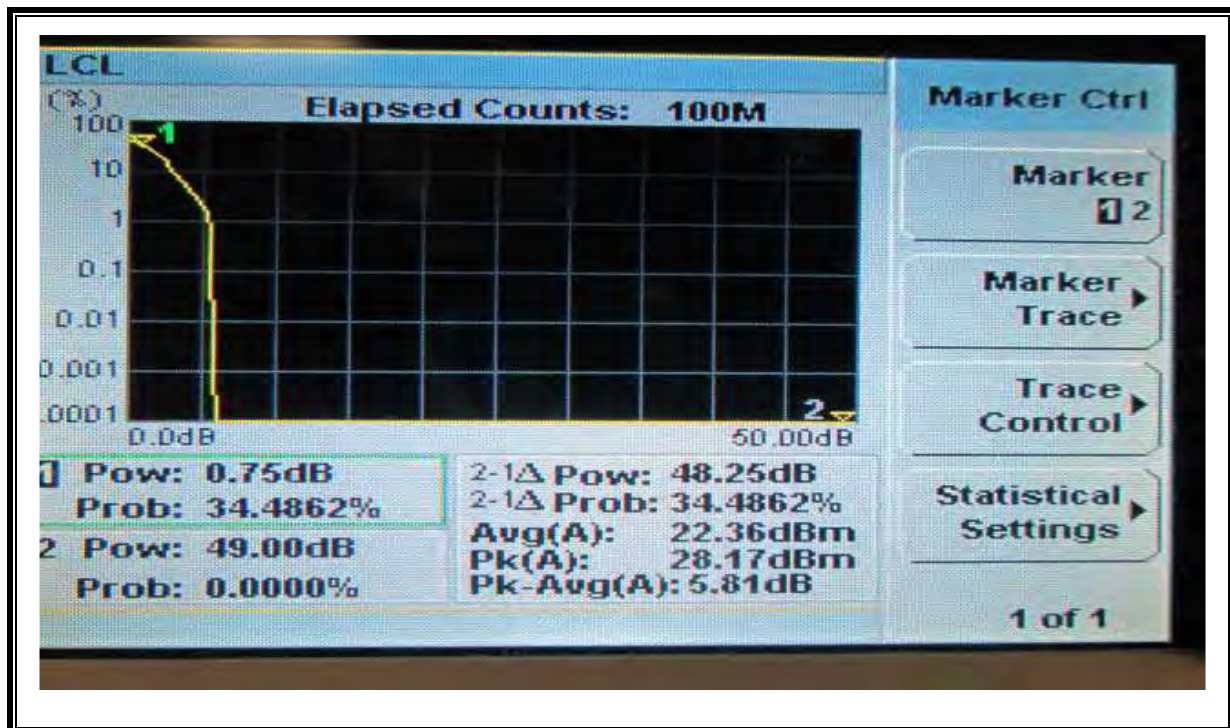
LTE 16QAM Band 2 (15 MHz BAND WIDTH)



LTE QPSK Band 2 (20 MHz BAND WIDTH)



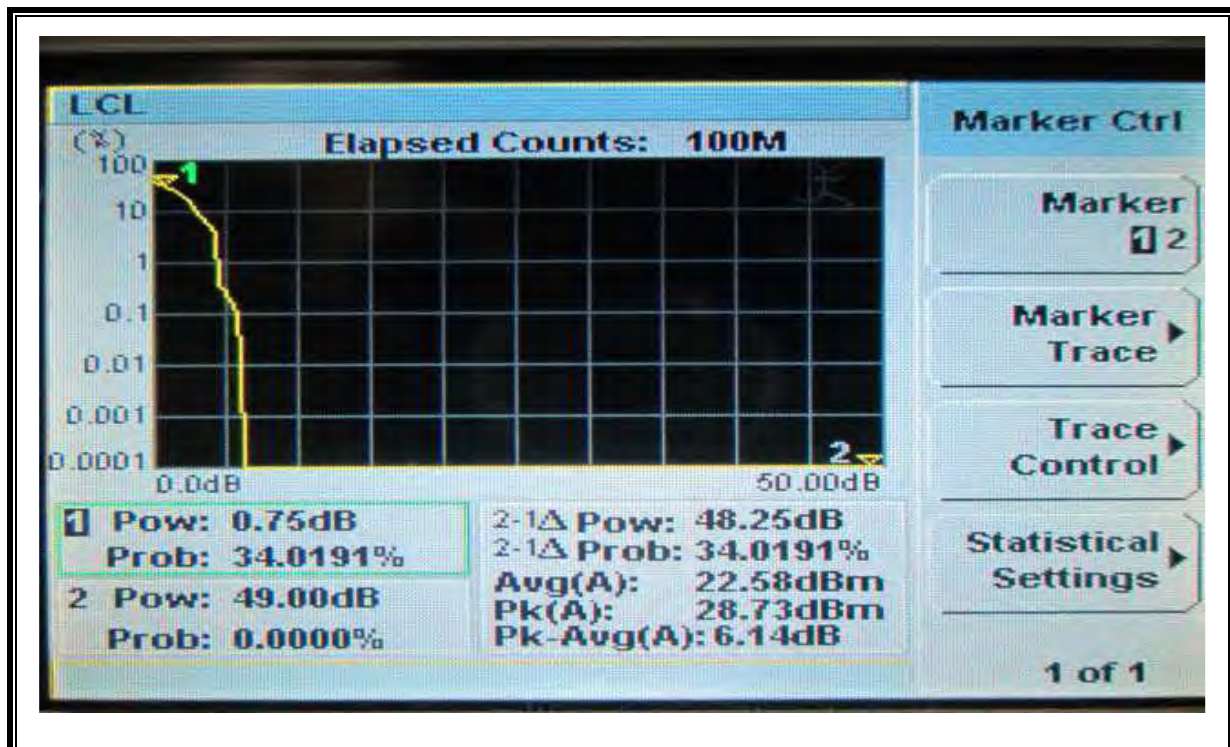
LTE 16QAM Band 2 (20 MHz BAND WIDTH)



QPSK Band 4 (1.4 MHz BAND WIDTH)



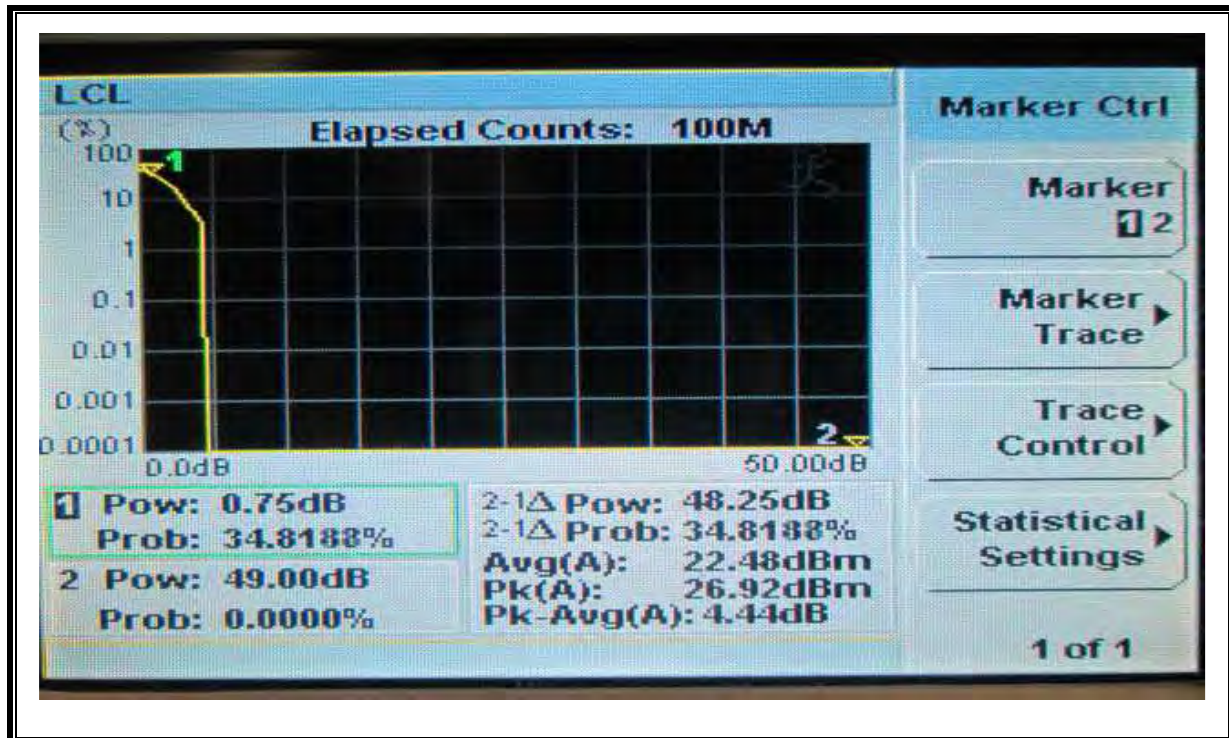
16QAM Band 4 (1.4 MHz BAND WIDTH)



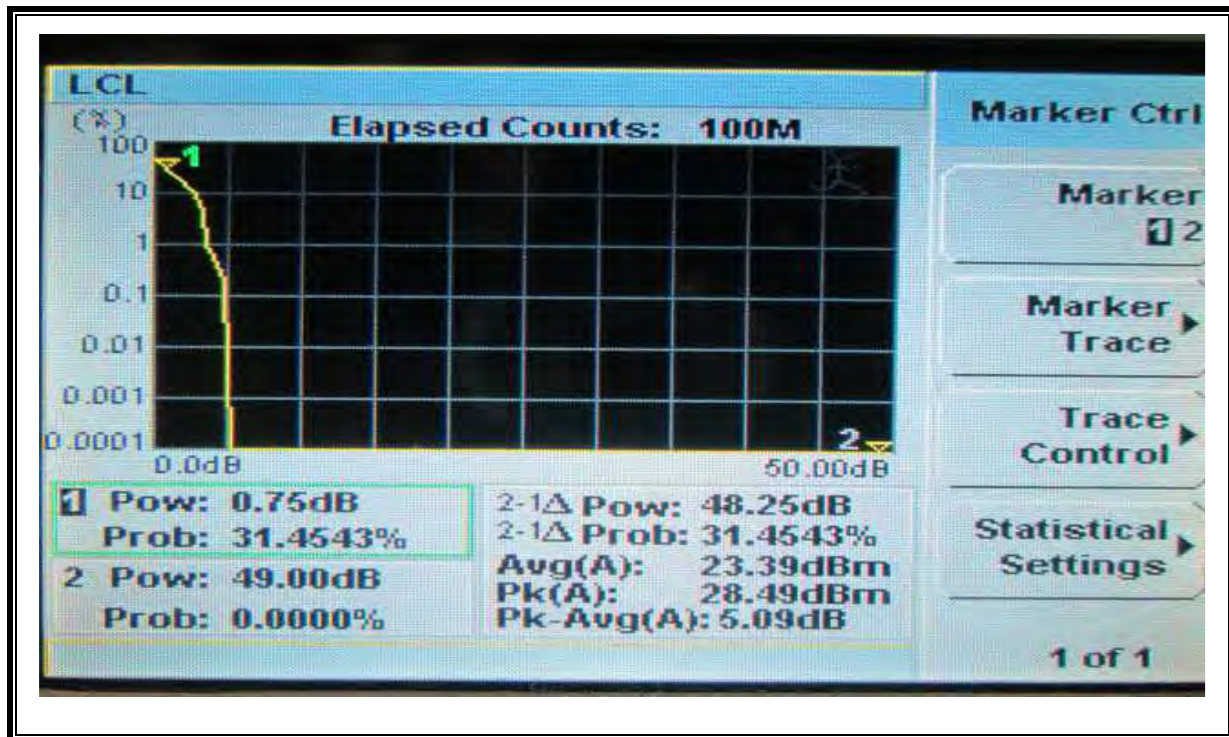
LTE QPSK Band 4 (3 MHz BAND WIDTH)



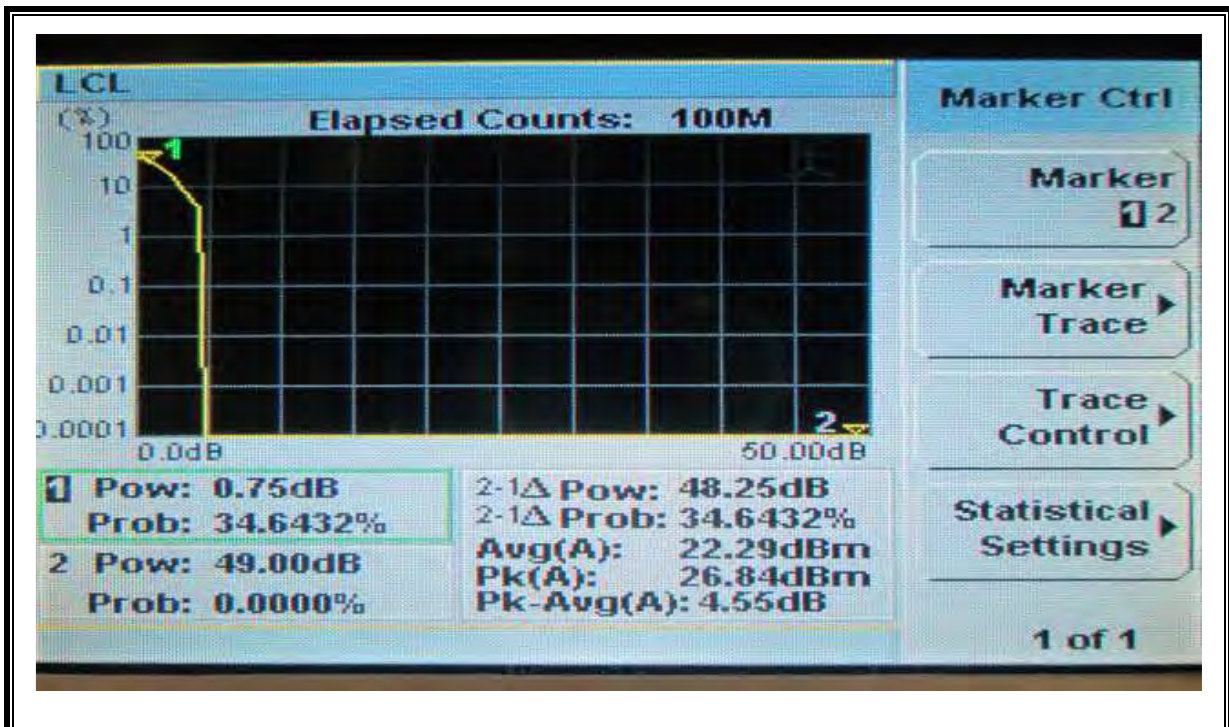
LTE 16QAM Band 4 (3 MHz BAND WIDTH)



LTE QPSK Band 4 (5 MHz BAND WIDTH)



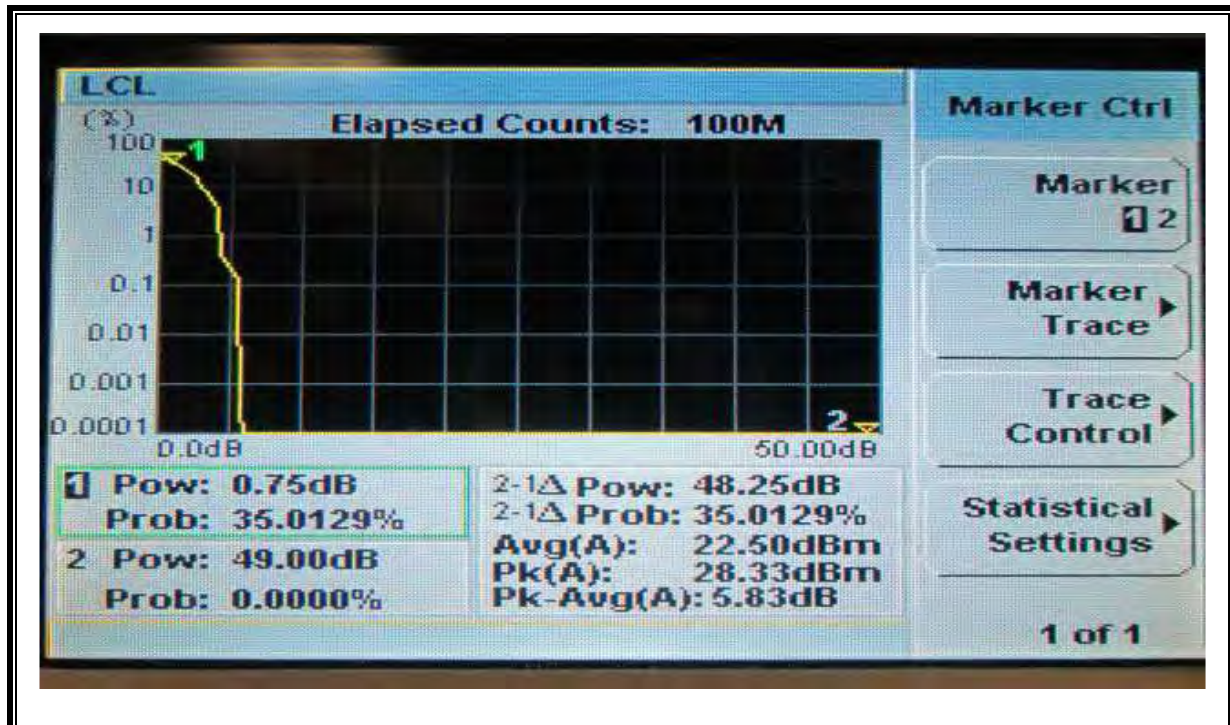
LTE 16QAM Band 4 (5 MHz BAND WIDTH)



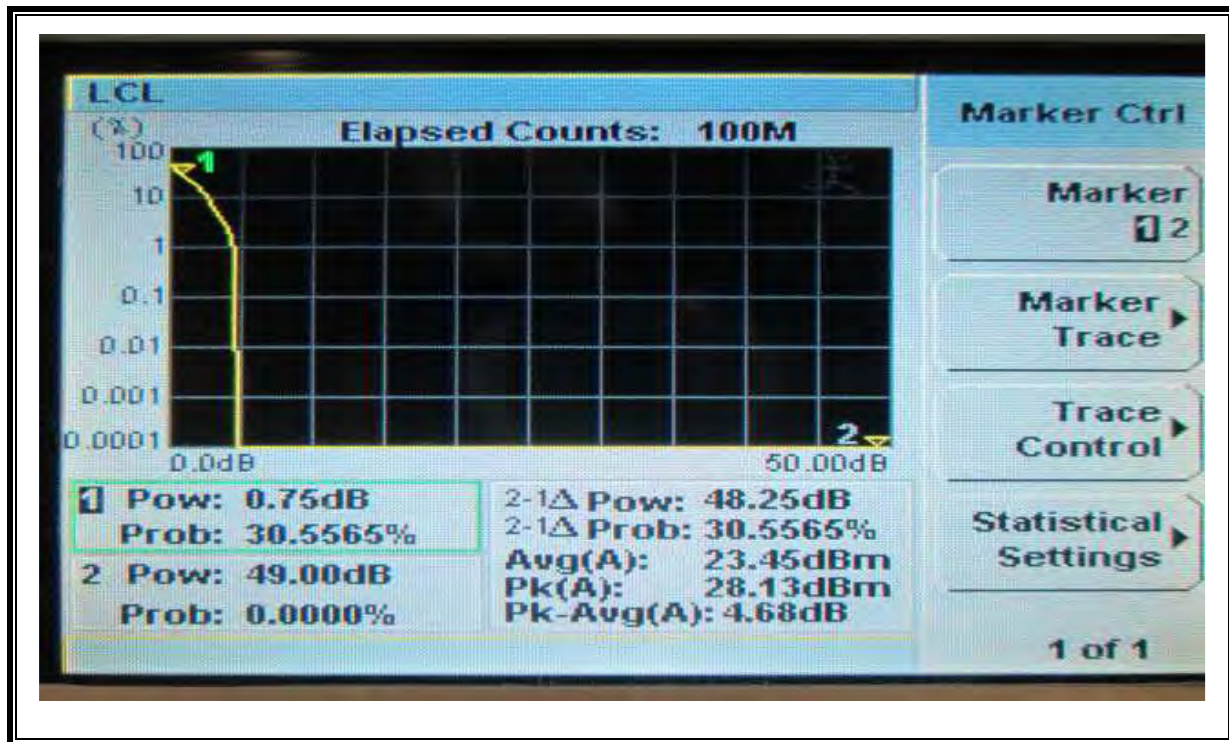
LTE QPSK Band 4 (10 MHz BAND WIDTH)



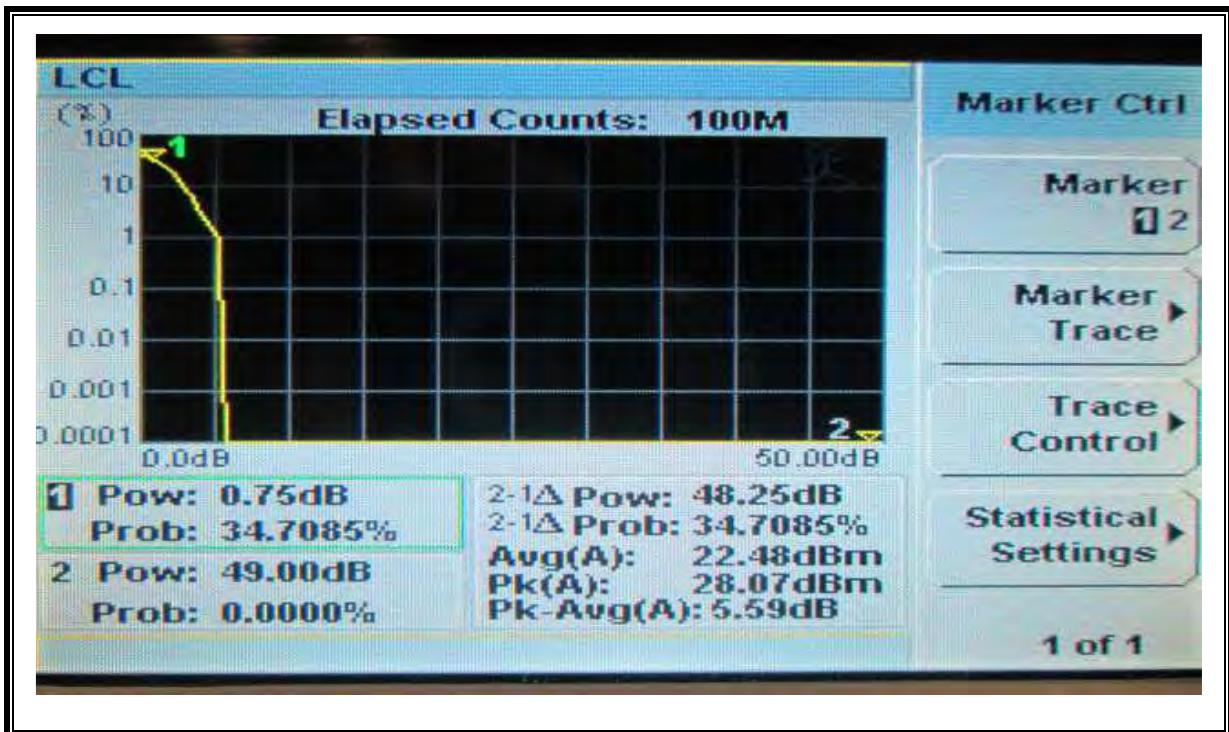
LTE 16QAM Band 4 (10 MHz BAND WIDTH)



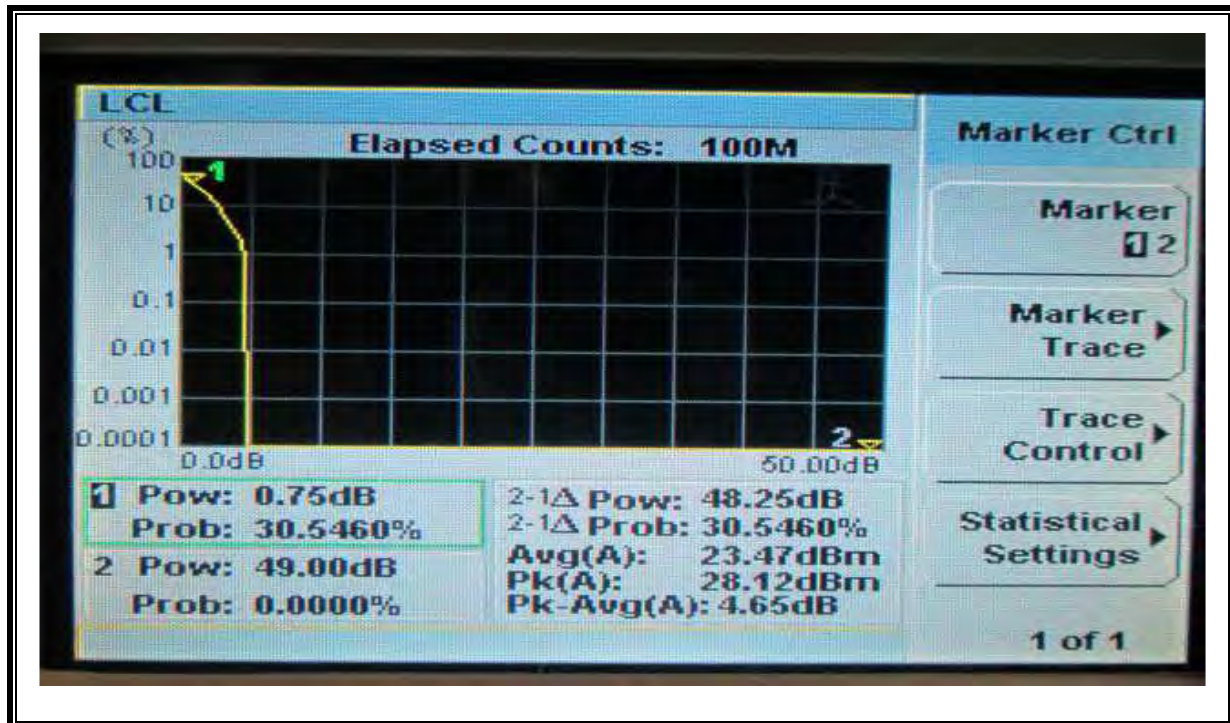
LTE QPSK Band 4 (15 MHz BAND WIDTH)



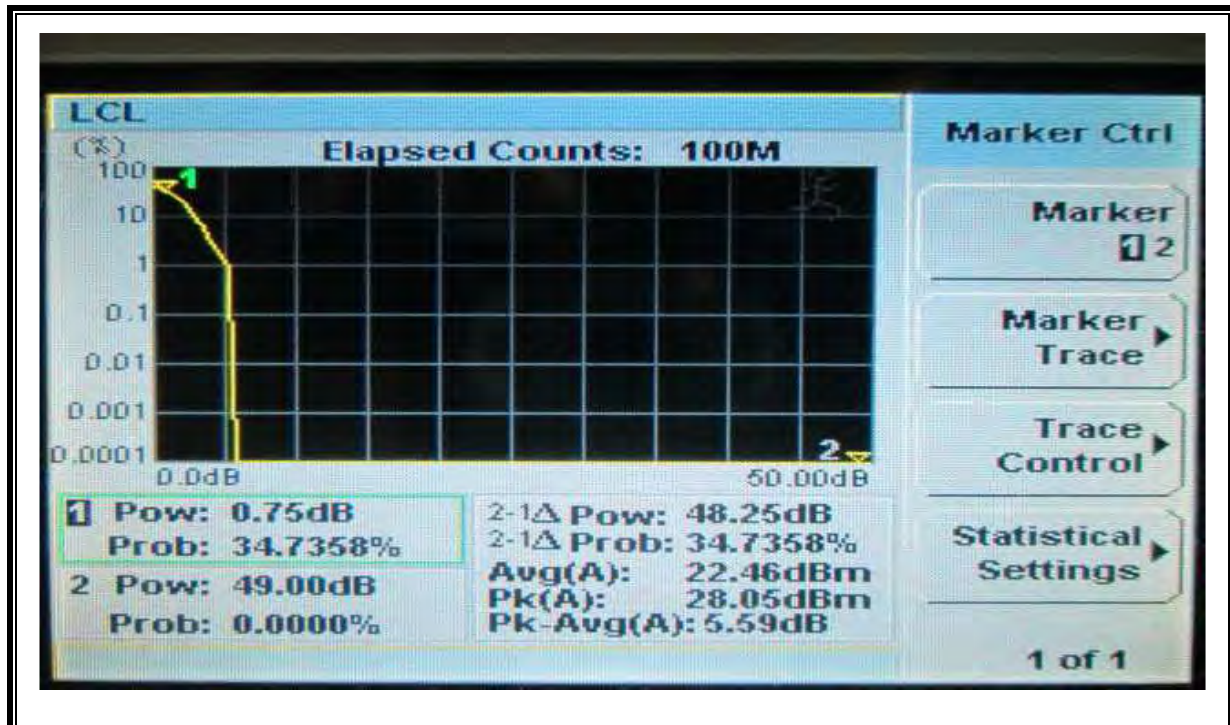
LTE 16QAM Band 4 (15 MHz BAND WIDTH)



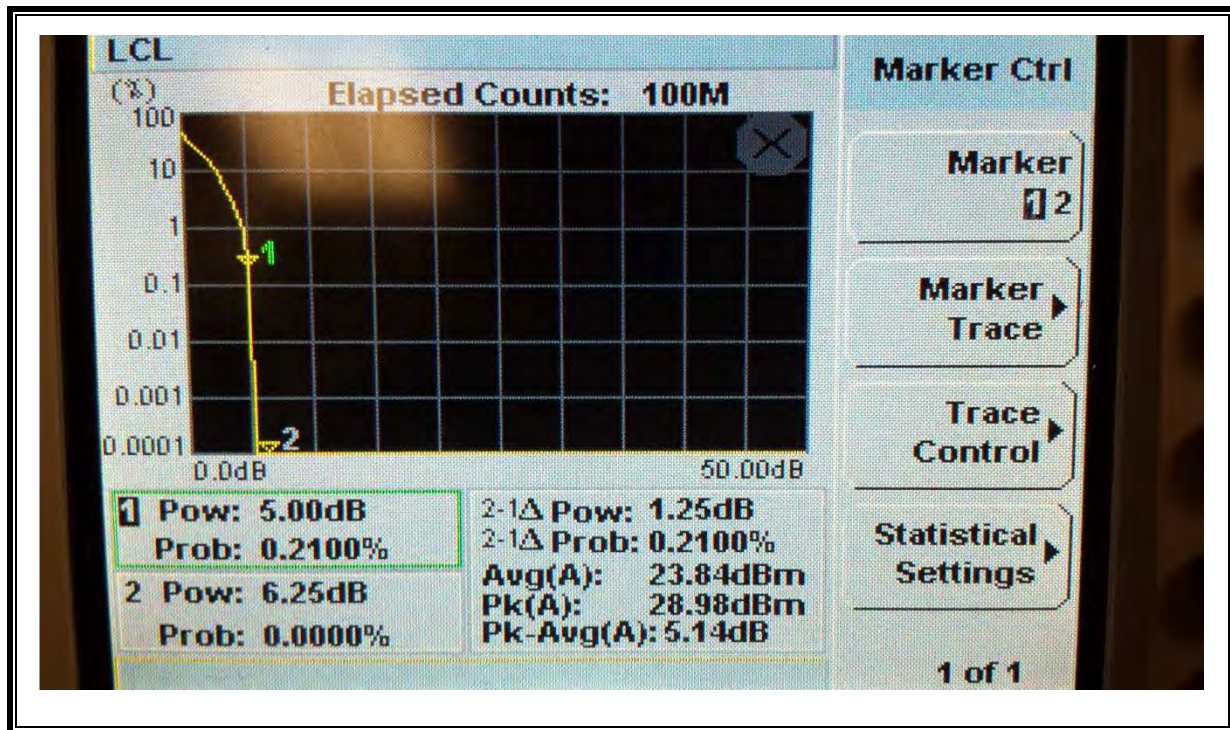
LTE QPSK Band 4 (20 MHz BAND WIDTH)



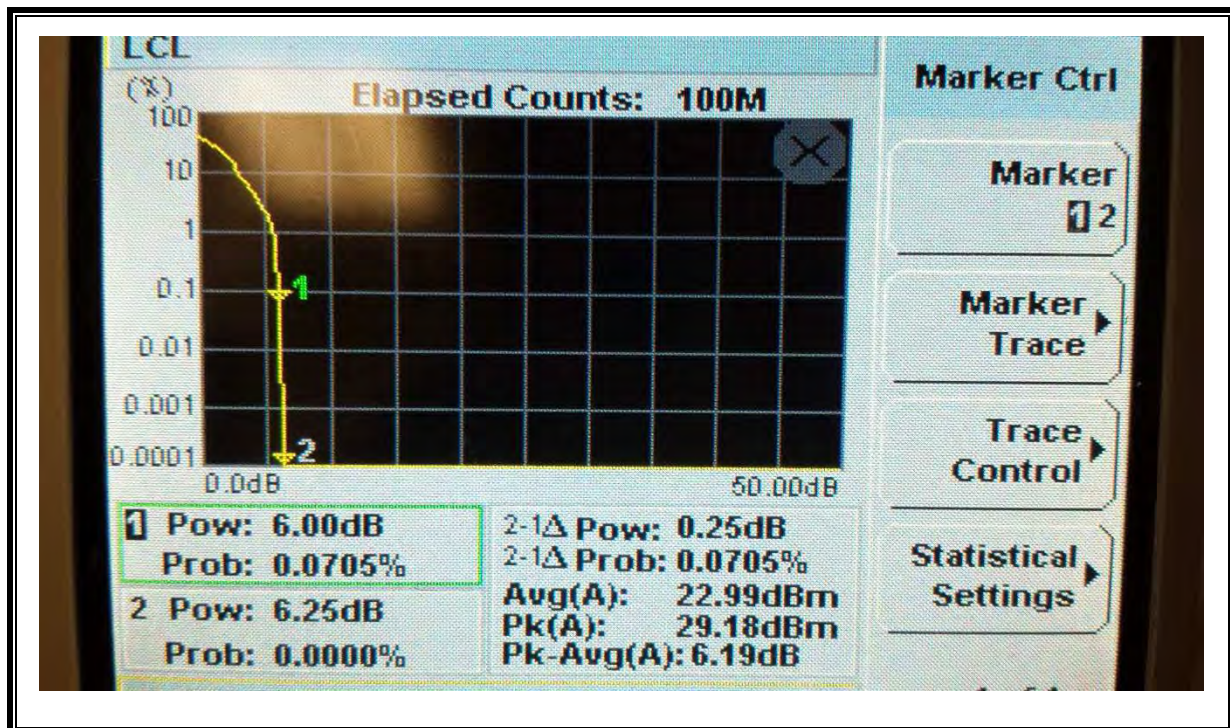
LTE 16QAM Band 4 (20 MHz BAND WIDTH)



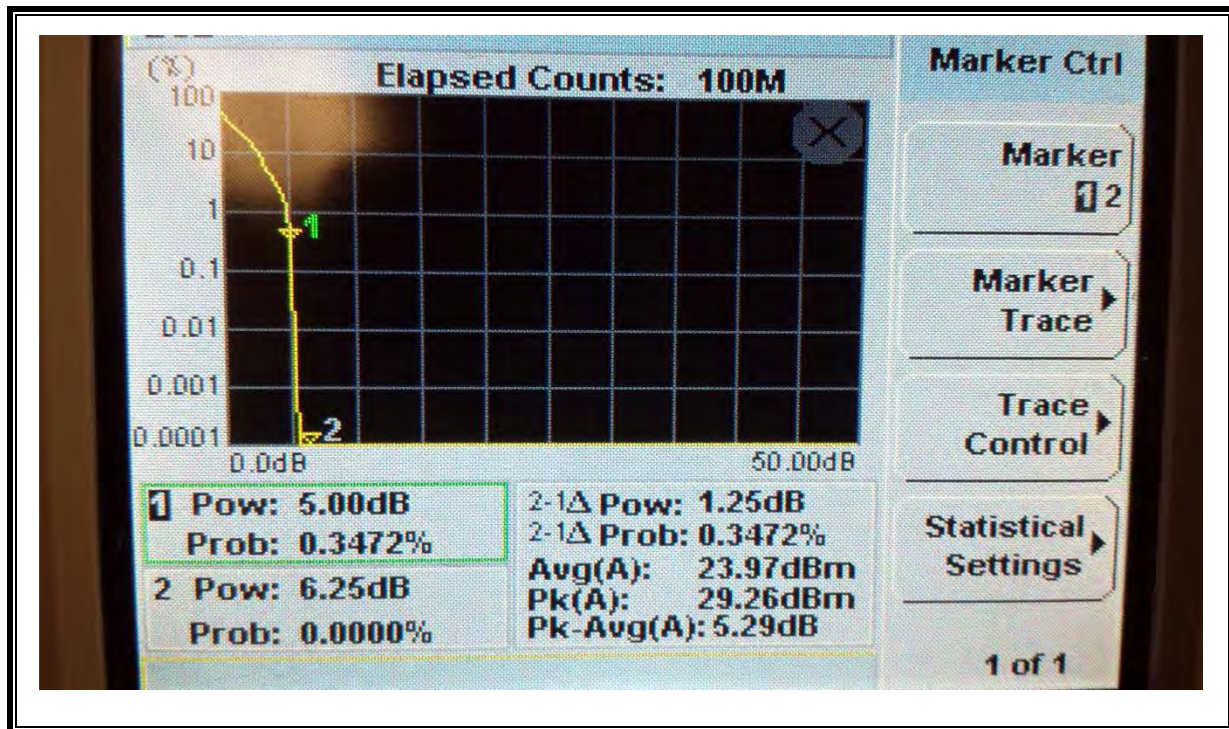
QPSK Band 5 (1.4 MHz BAND WIDTH)



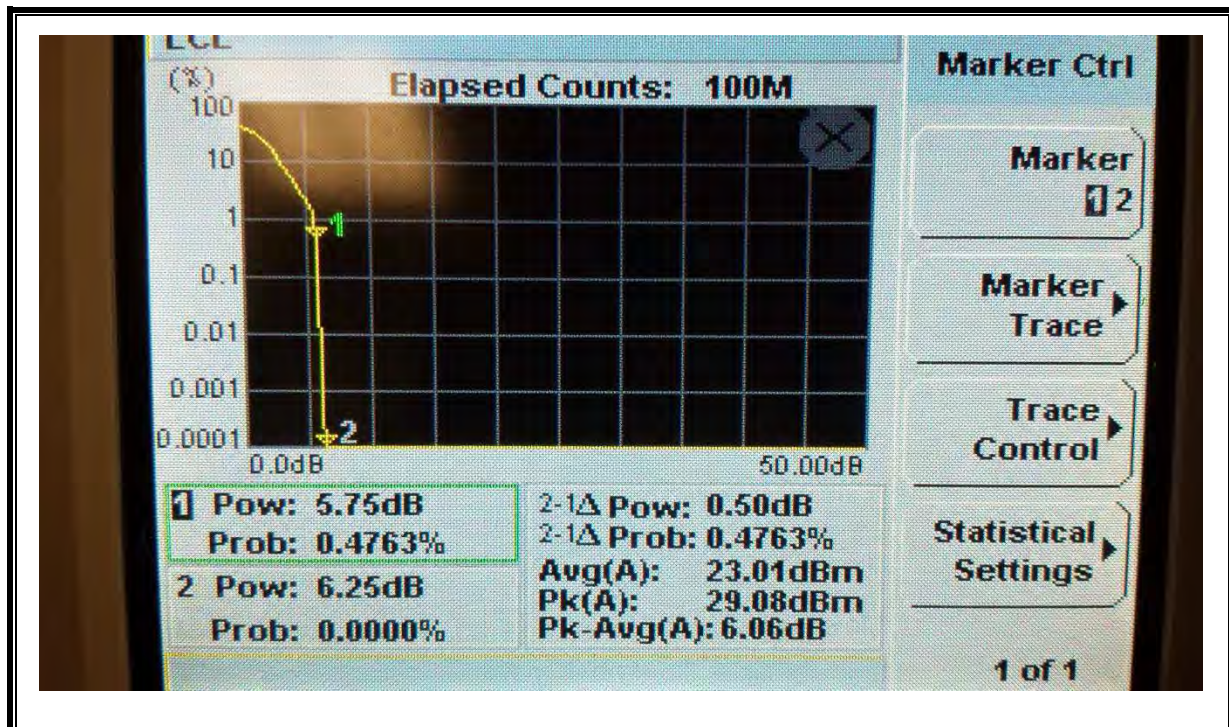
16QAM Band 5 (1.4 MHz BAND WIDTH)



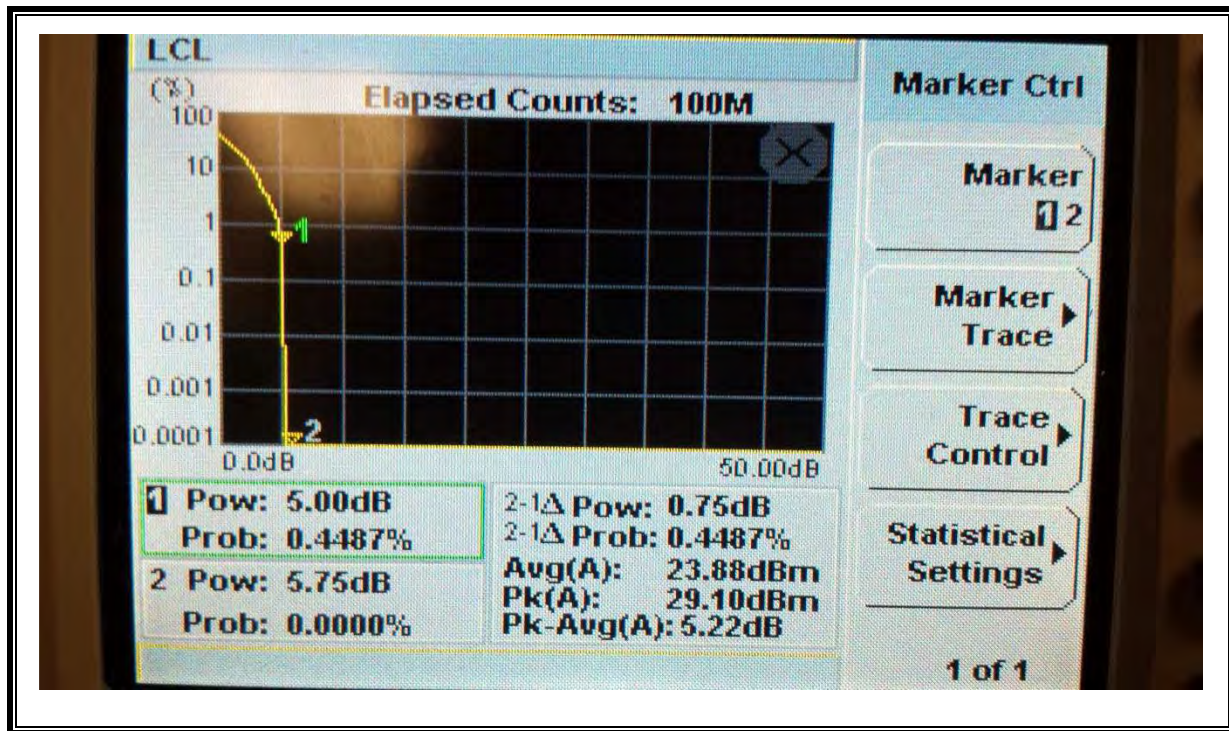
LTE QPSK Band 5 (3 MHz BAND WIDTH)



LTE 16QAM Band 5 (3 MHz BAND WIDTH)



LTE QPSK Band 5 (5 MHz BAND WIDTH)



LTE 16QAM Band 5 (5 MHz BAND WIDTH)

