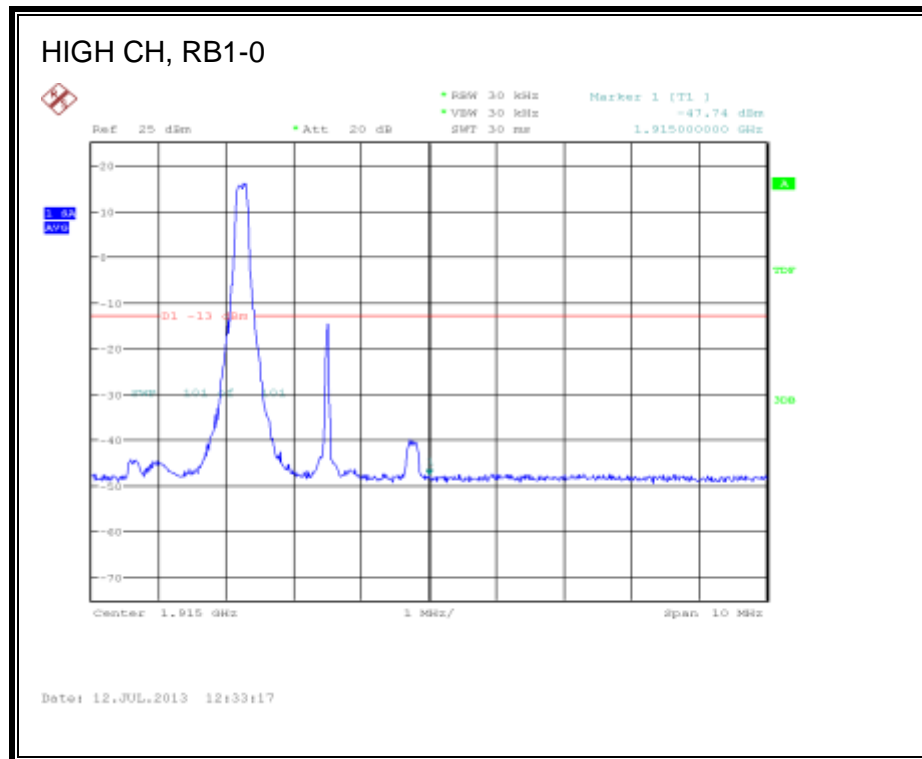
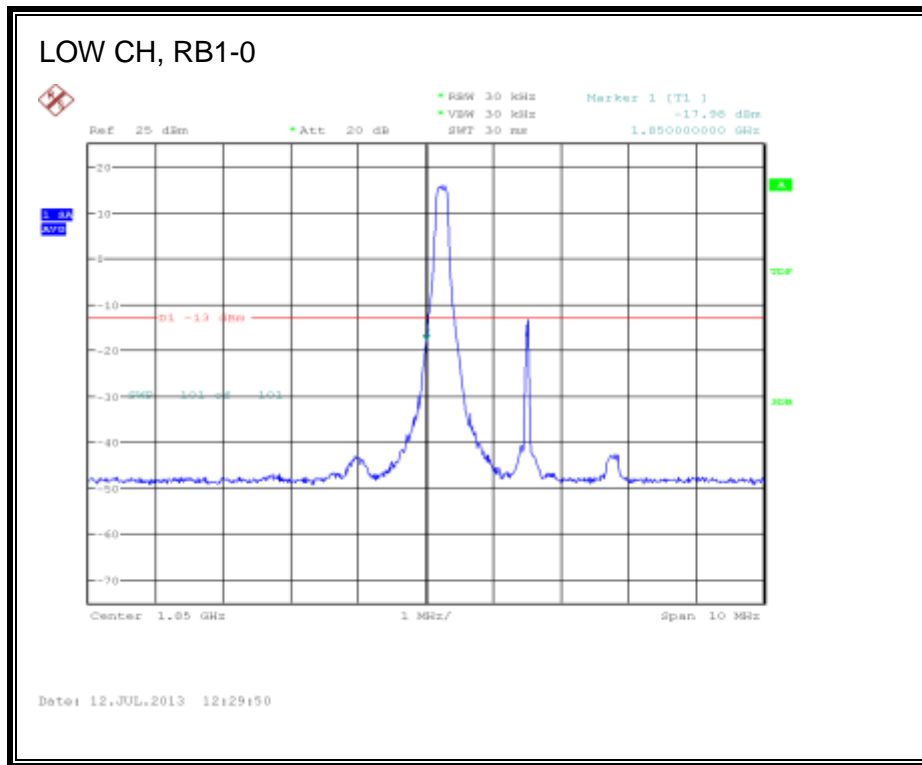
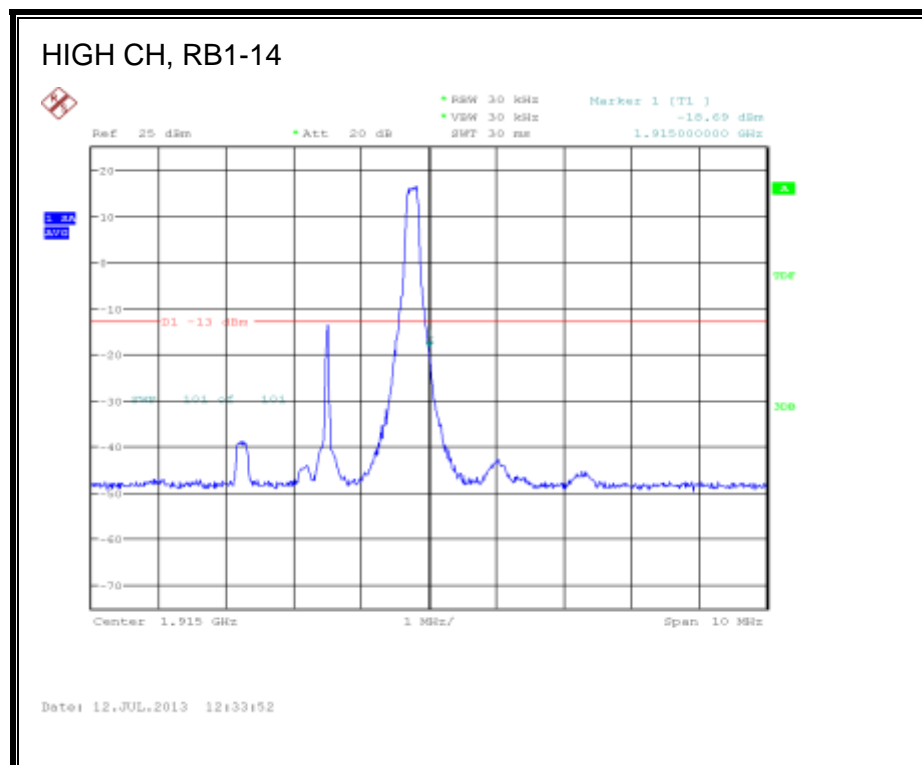
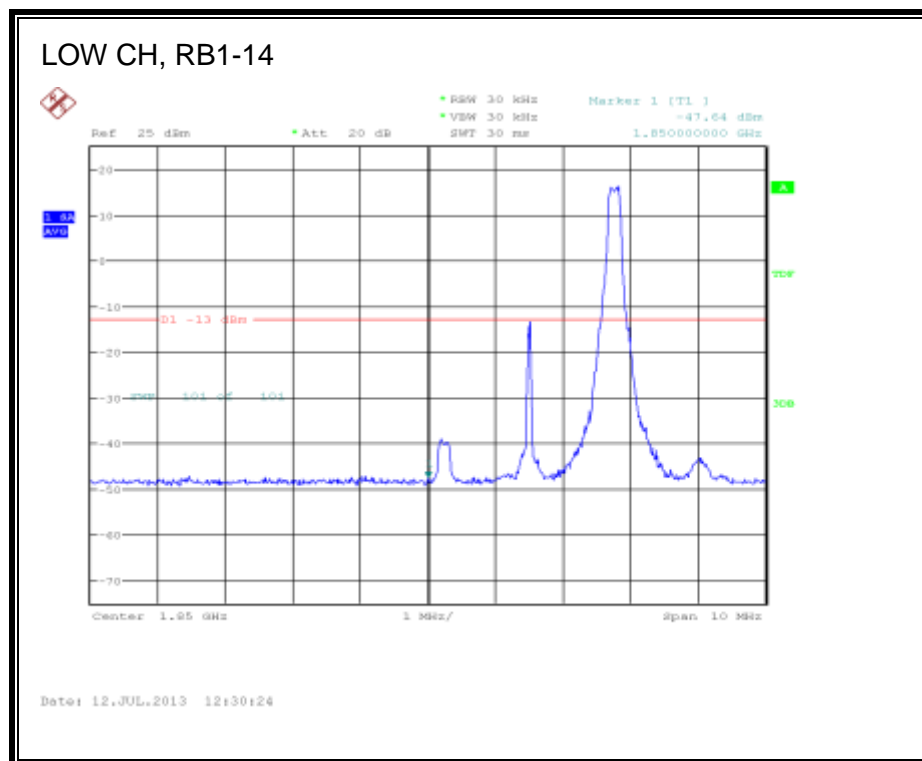
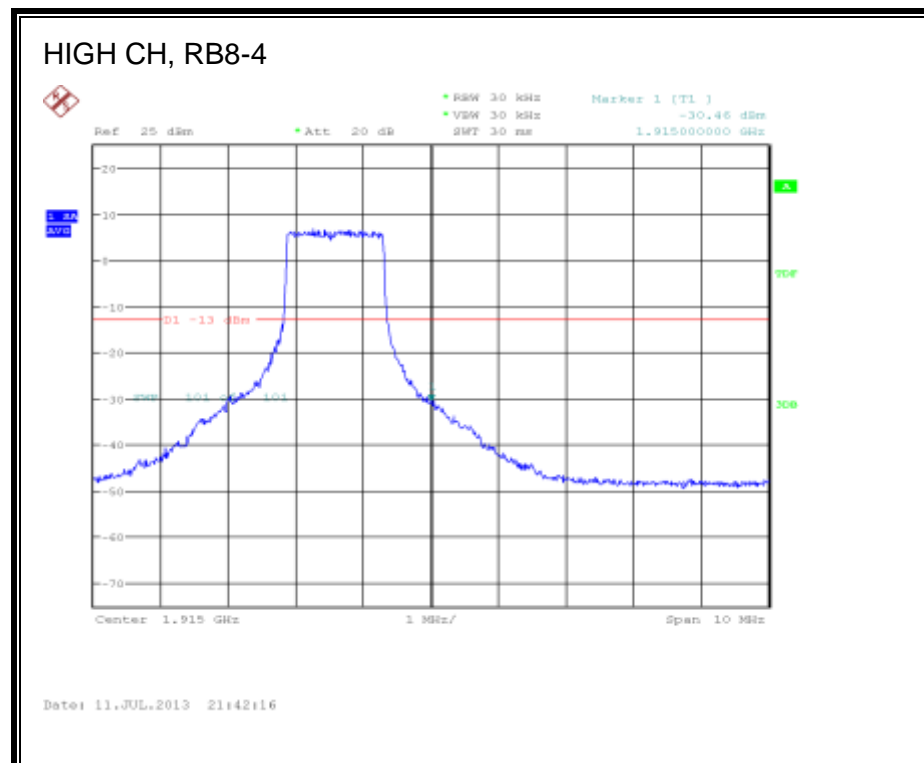
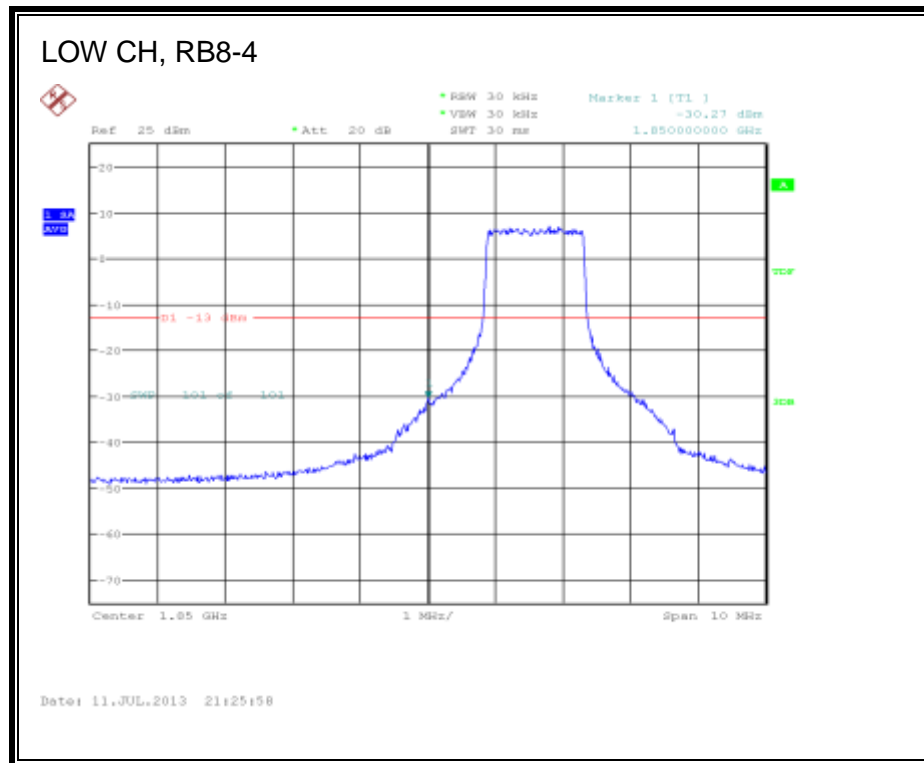
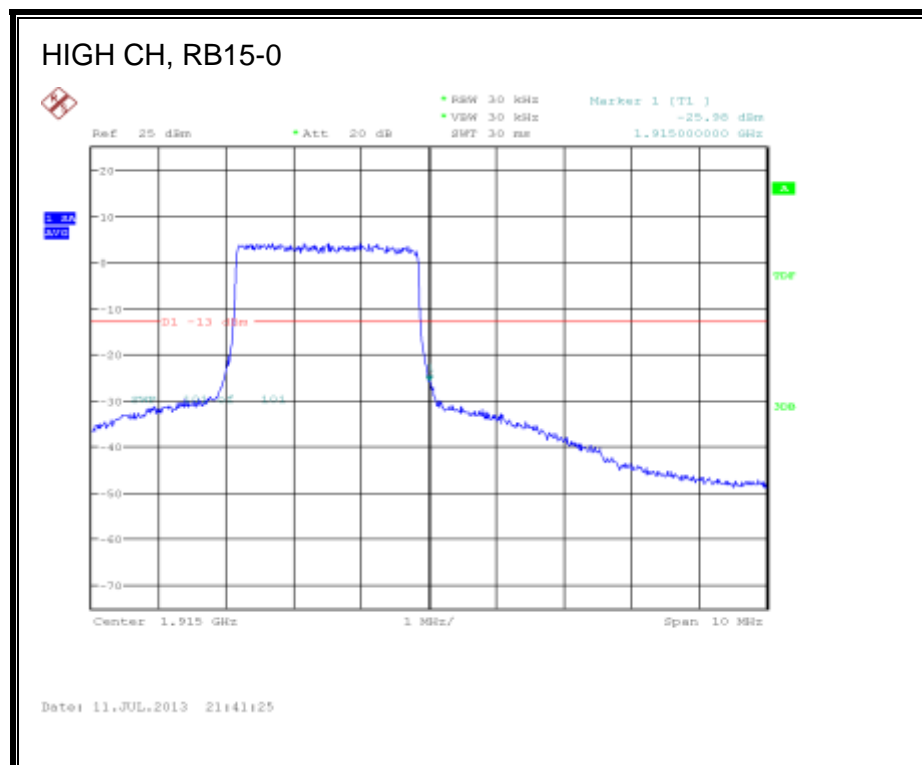
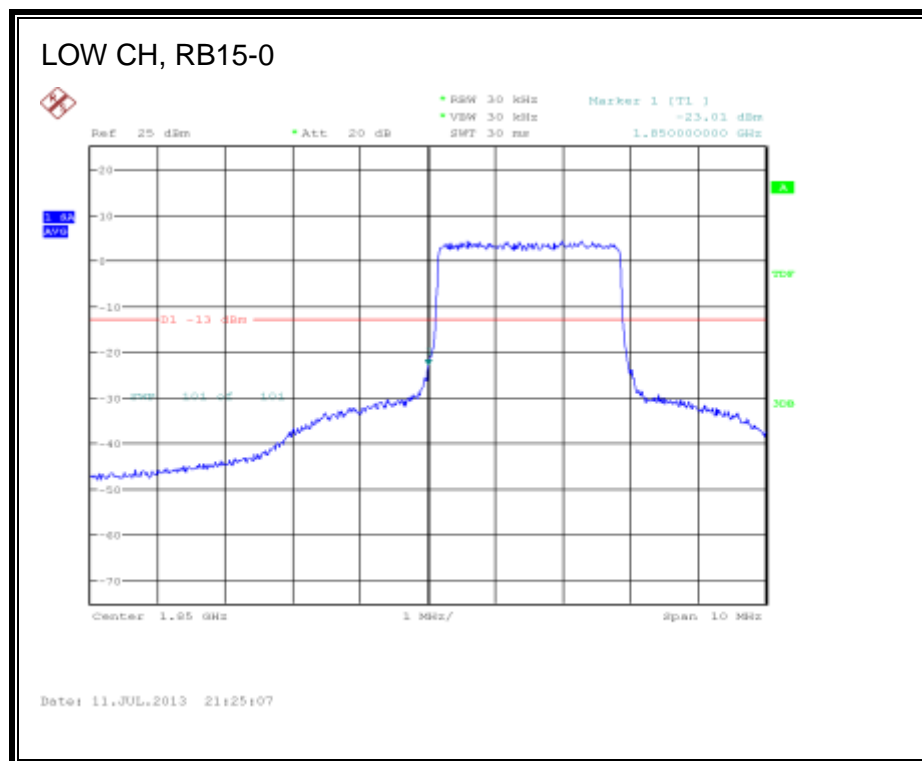


LTE 16QAM Band 25 (3.0 MHz BAND WIDTH)

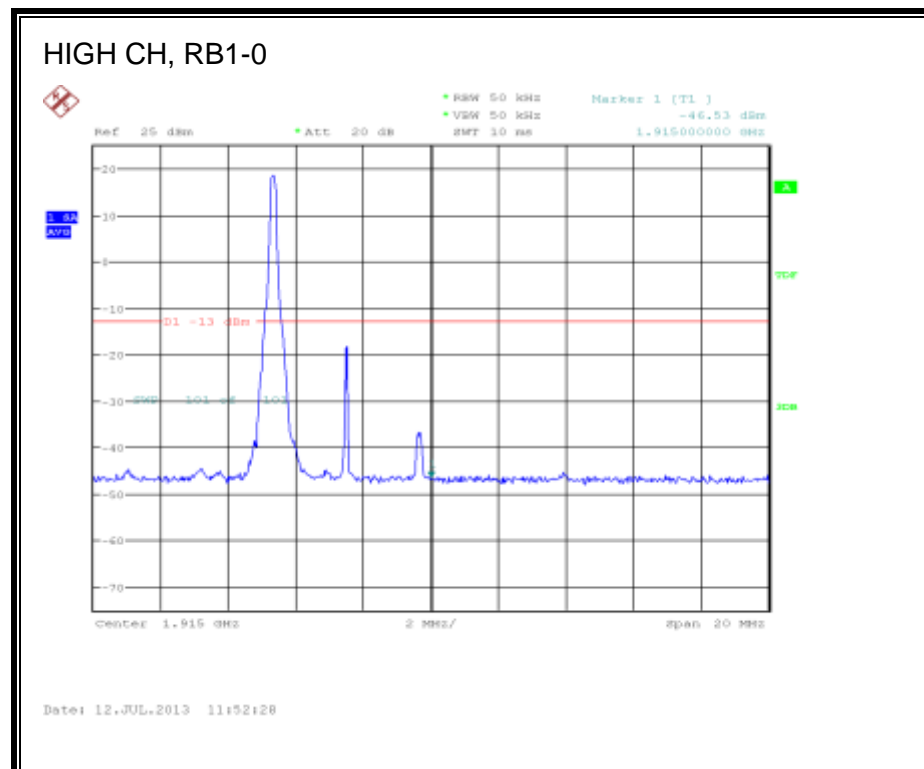
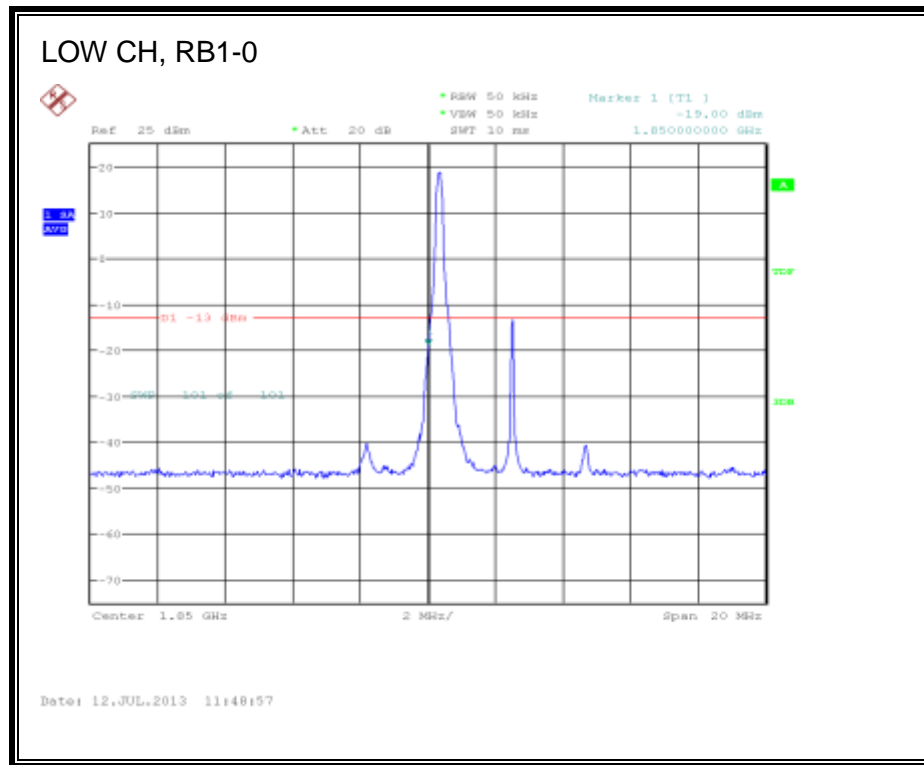


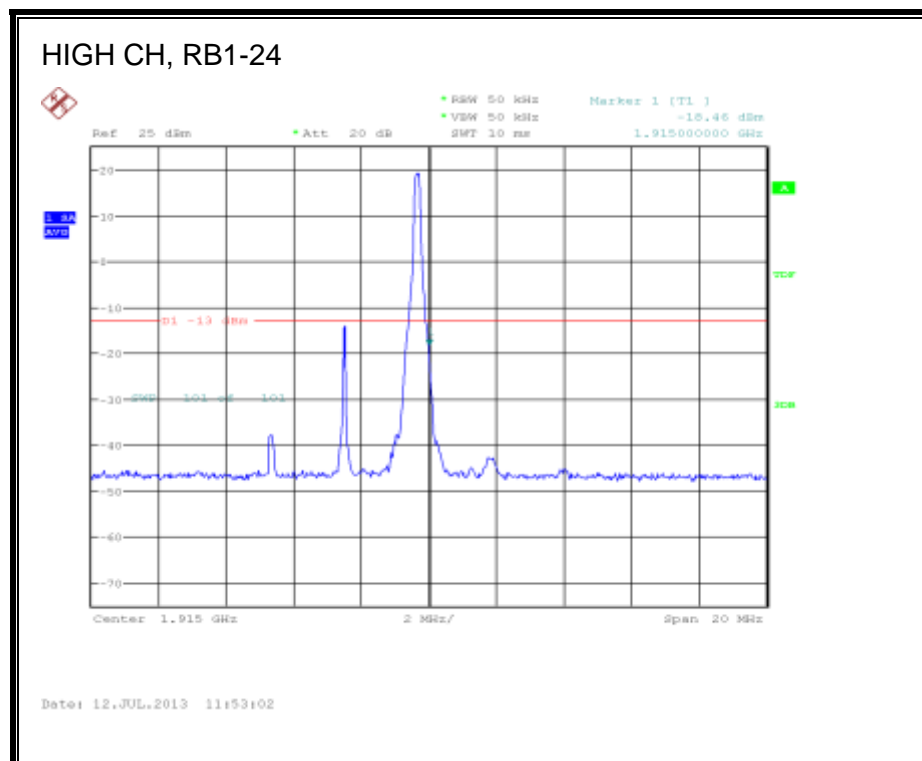
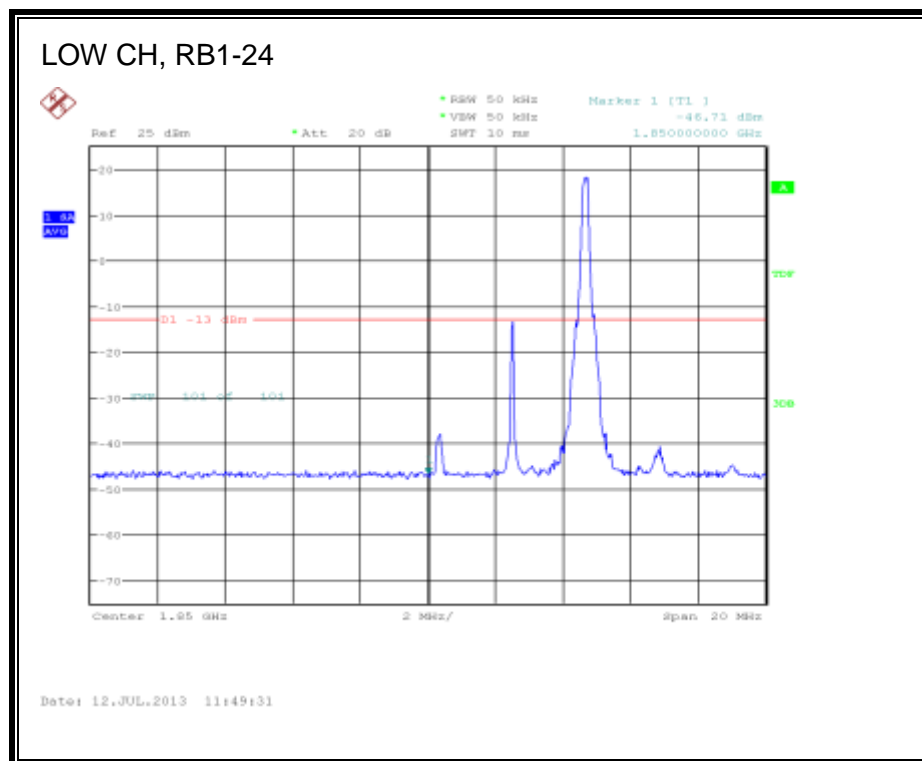


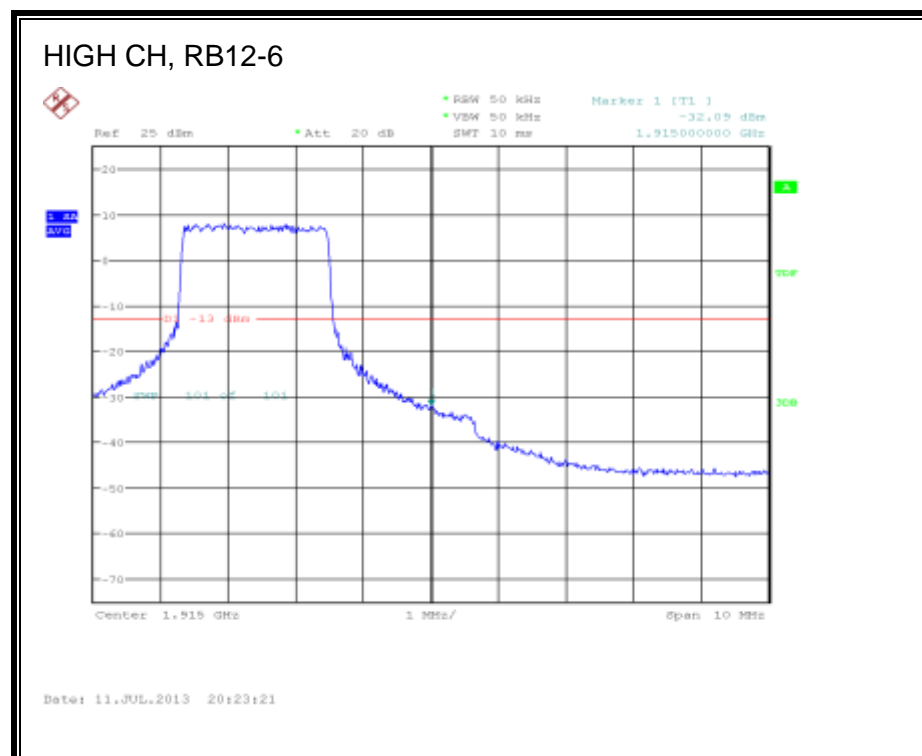
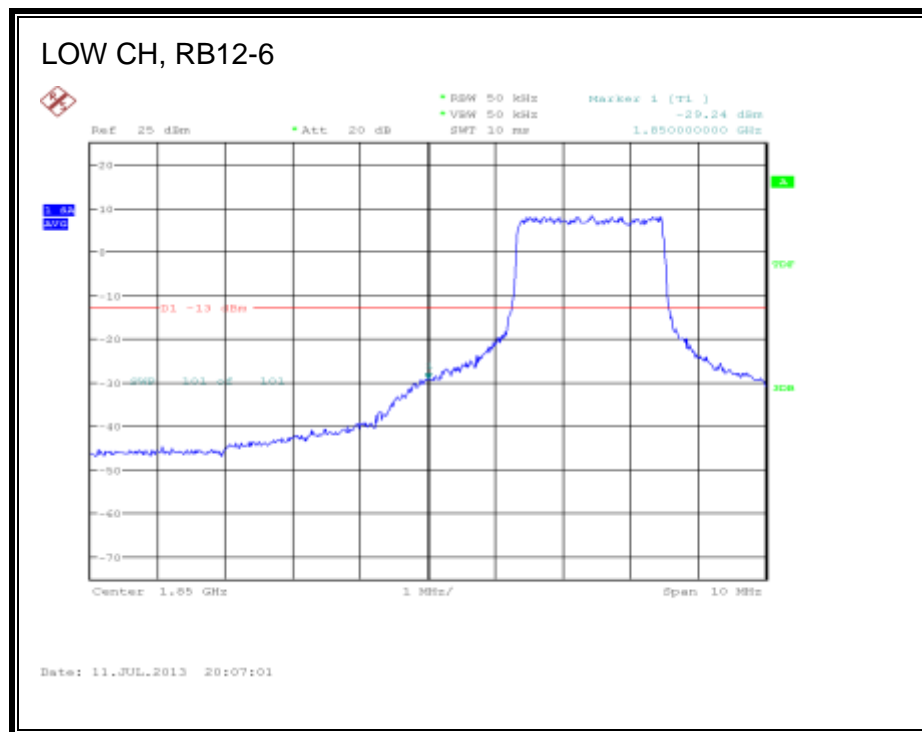


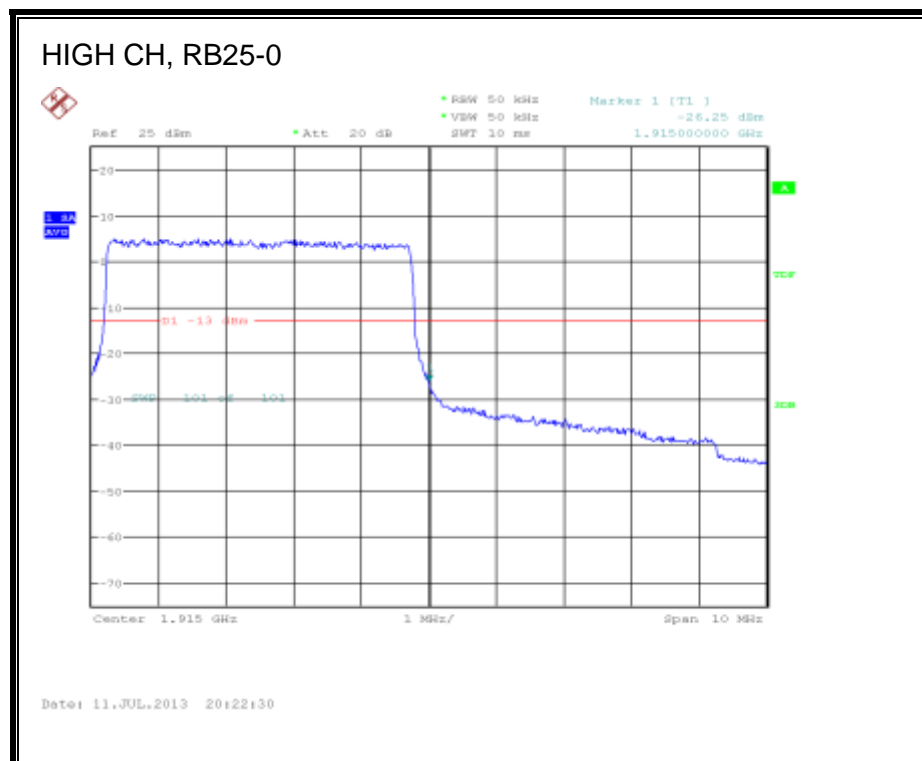
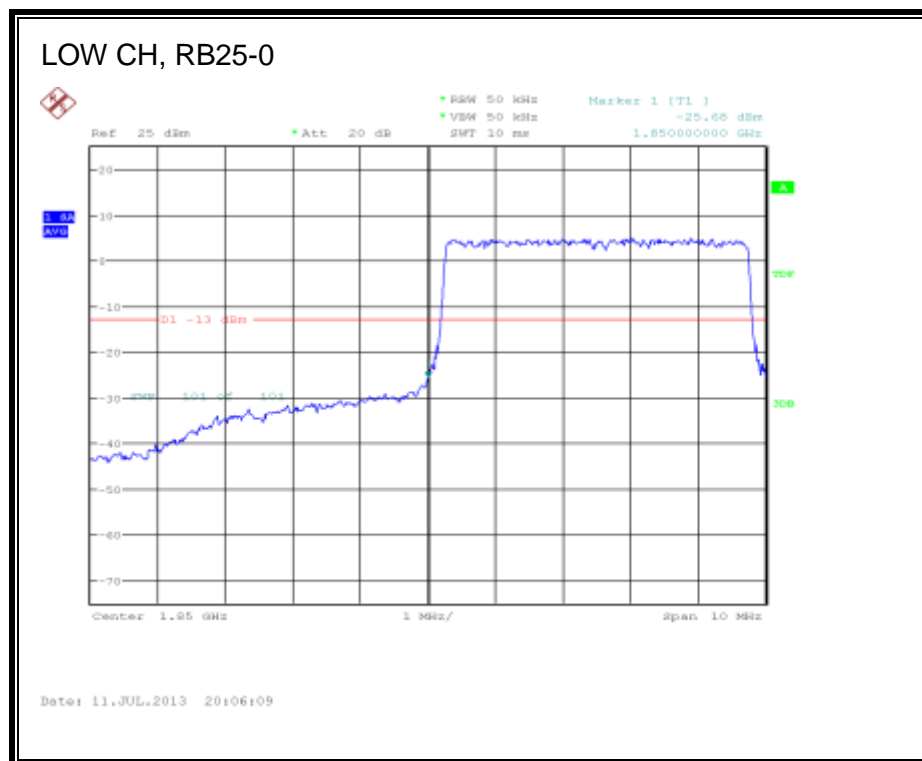


LTE QPSK Band 25 (5.0 MHz BAND WIDTH)

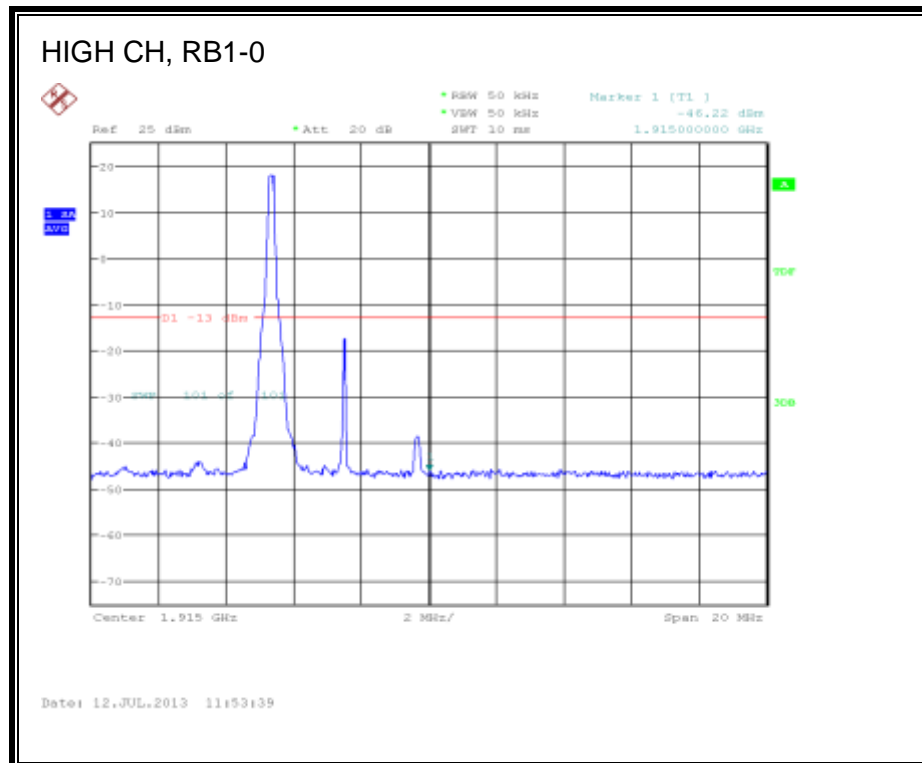
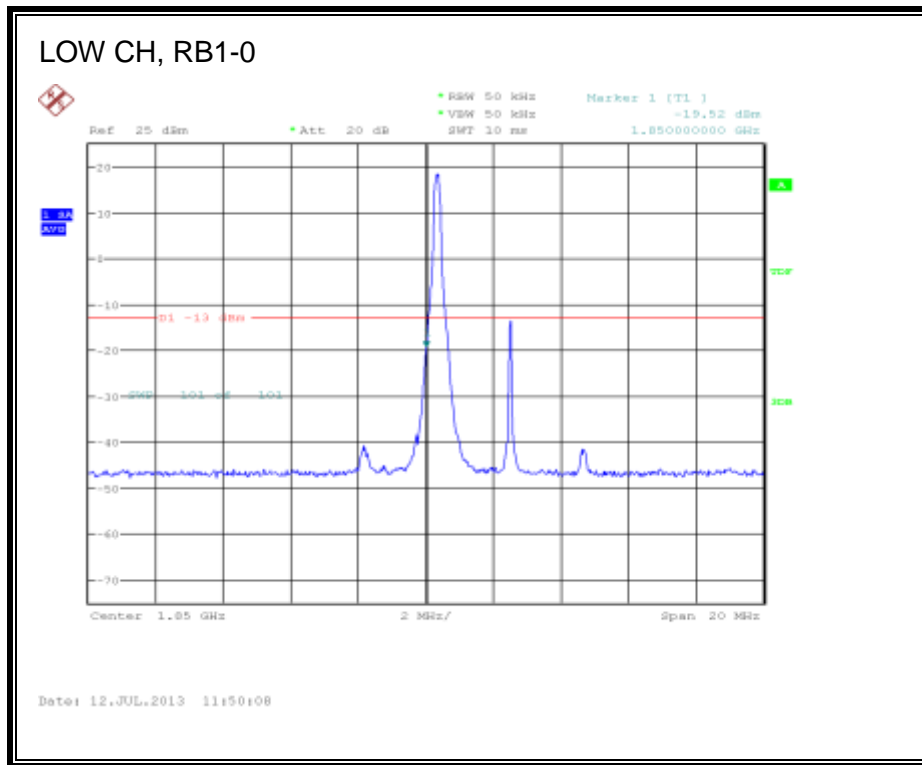


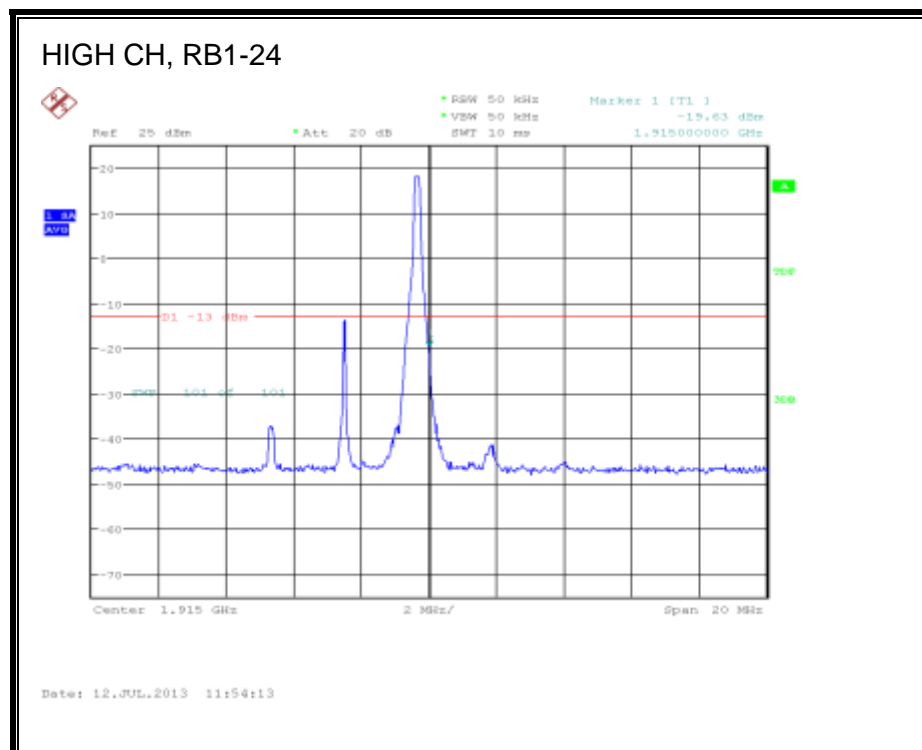
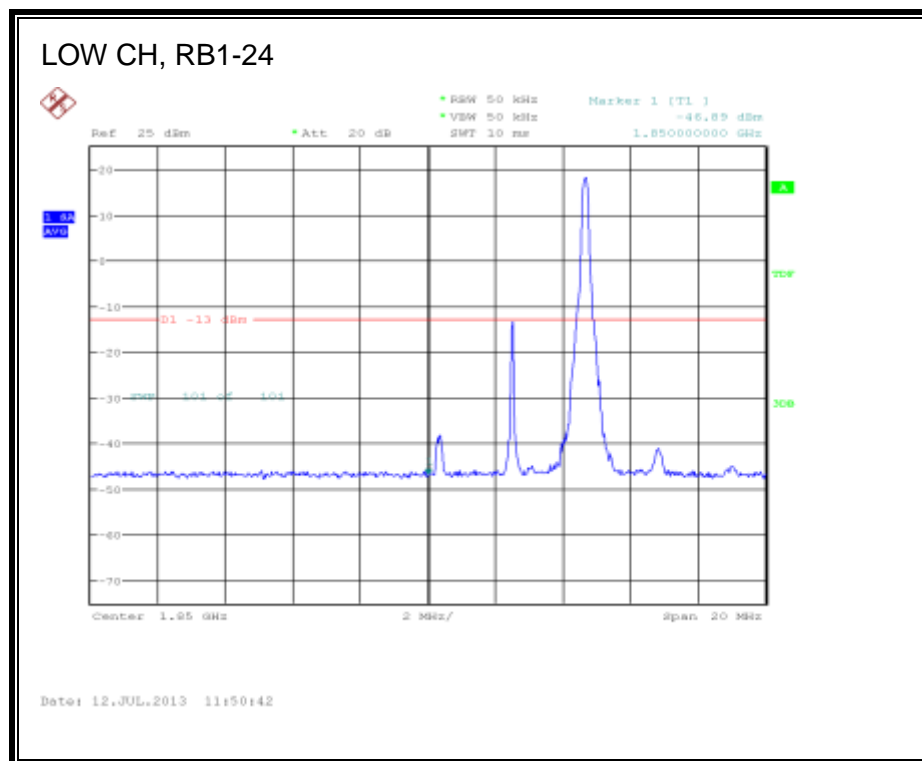


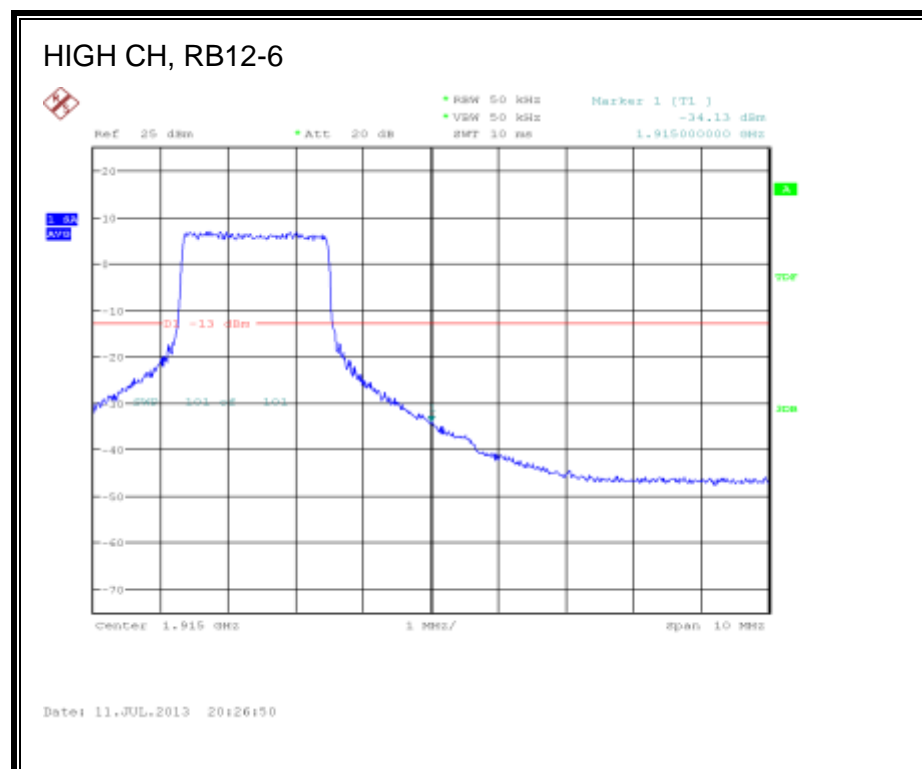
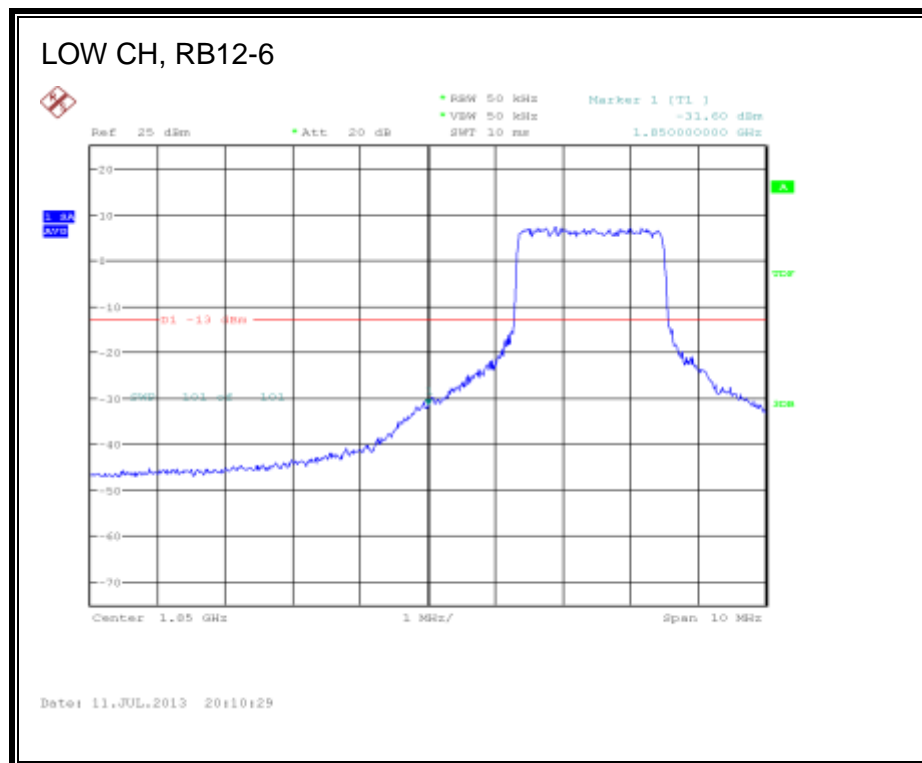


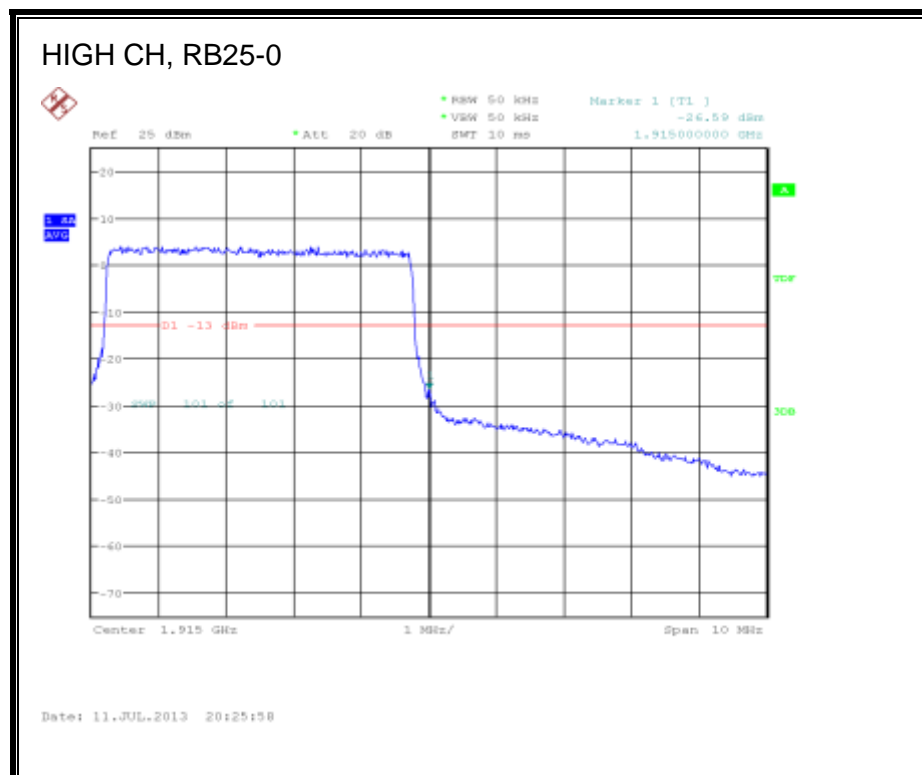
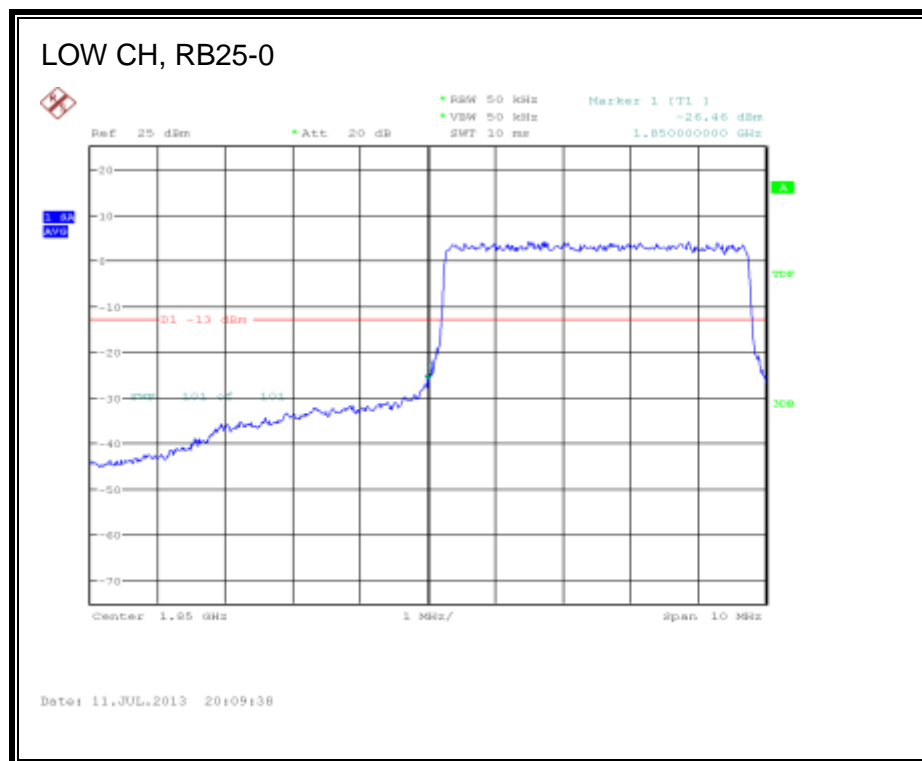


LTE 16QAM Band 25 (5.0 MHz BAND WIDTH)

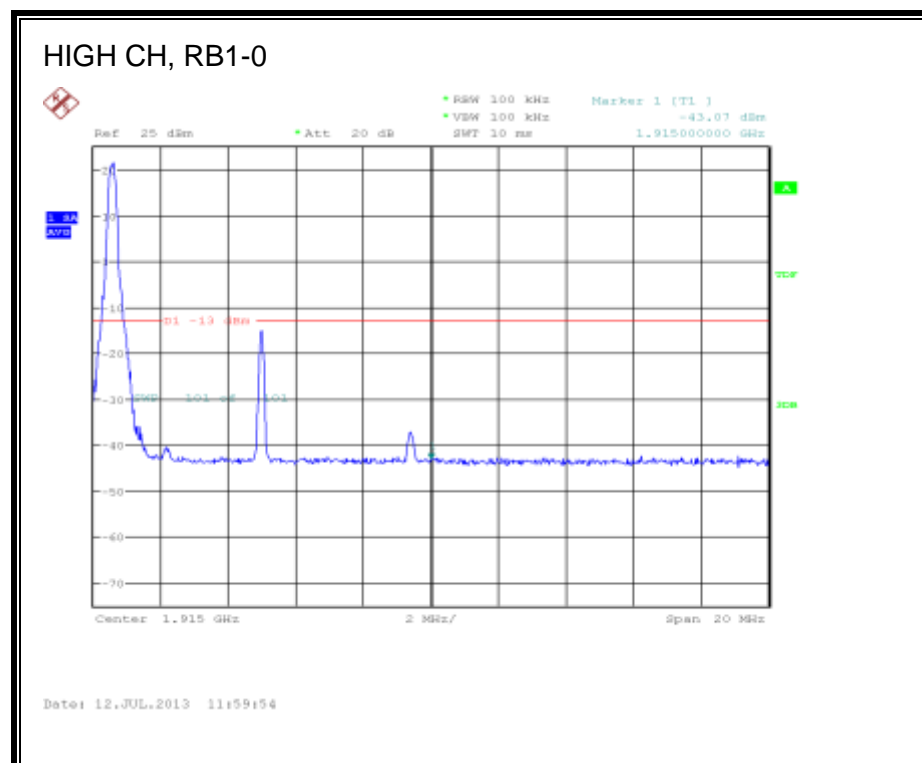
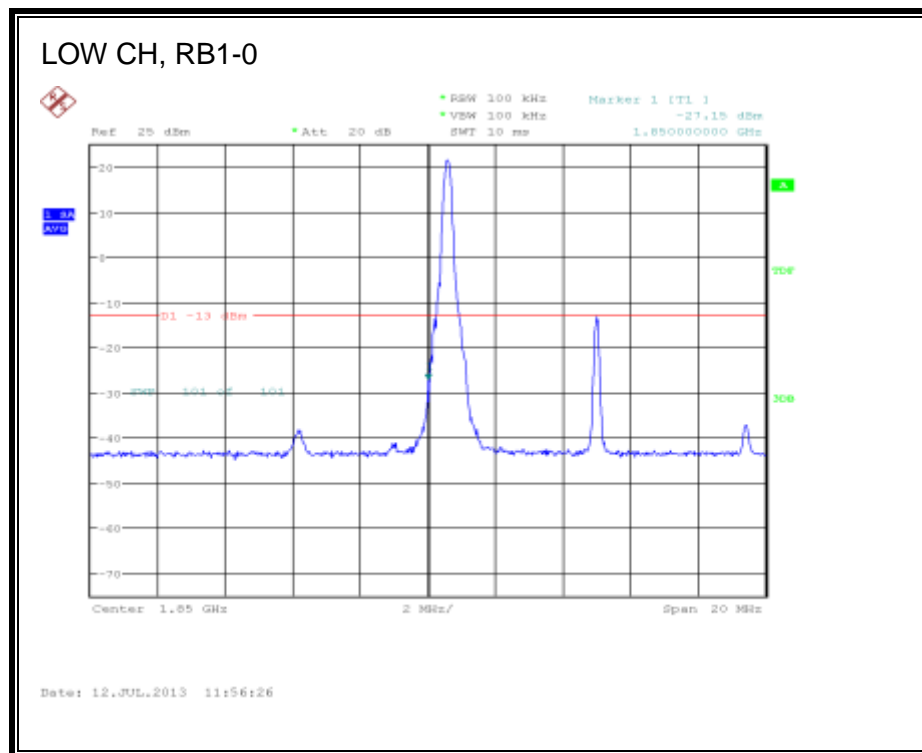


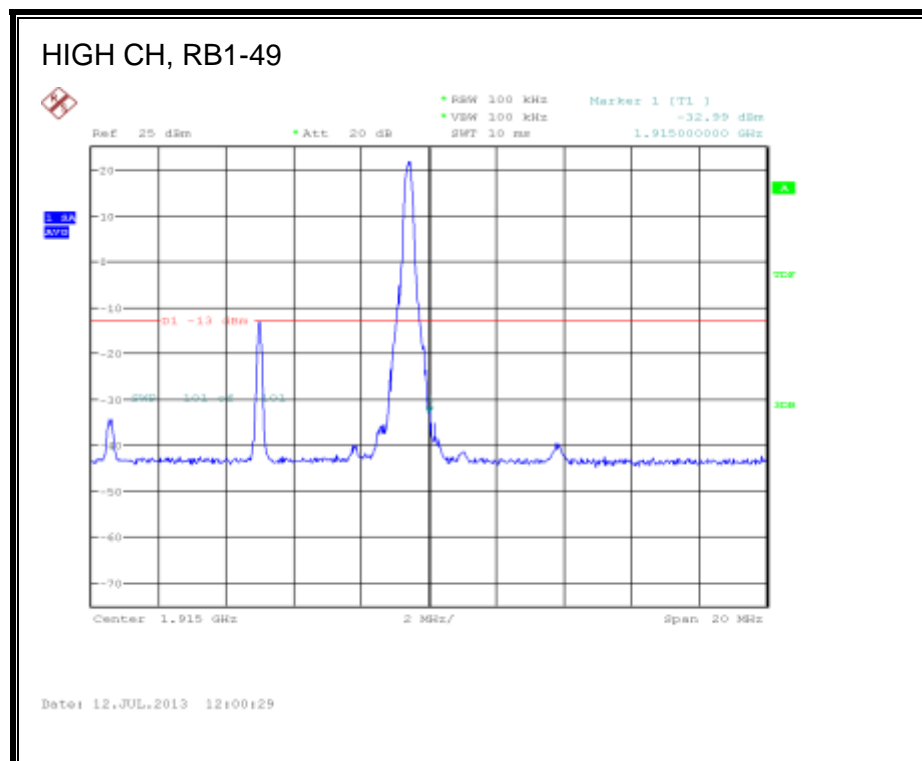
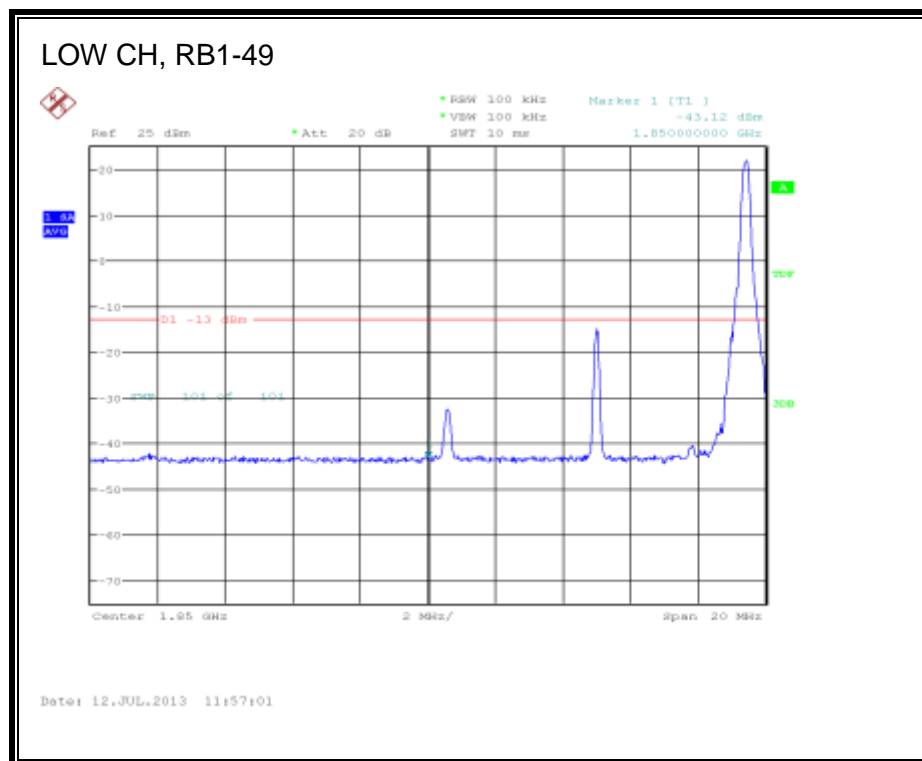


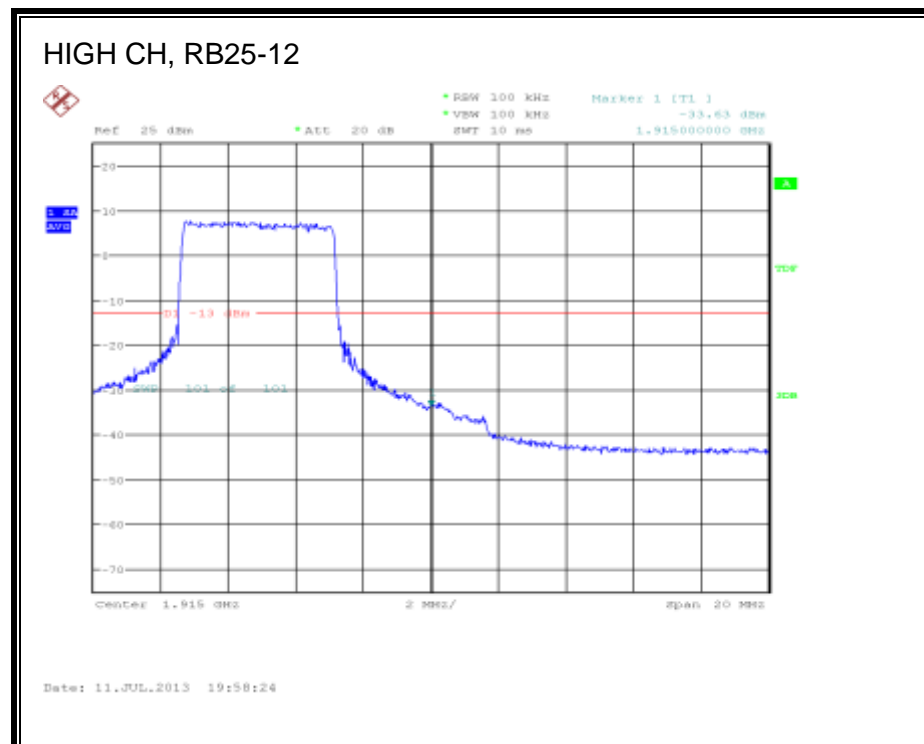
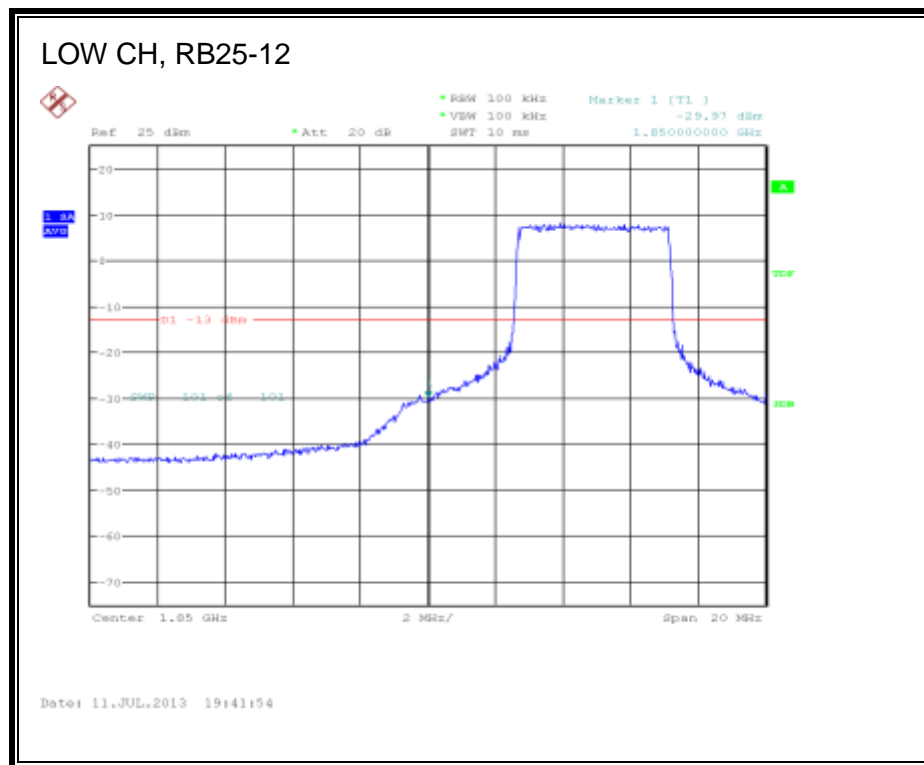


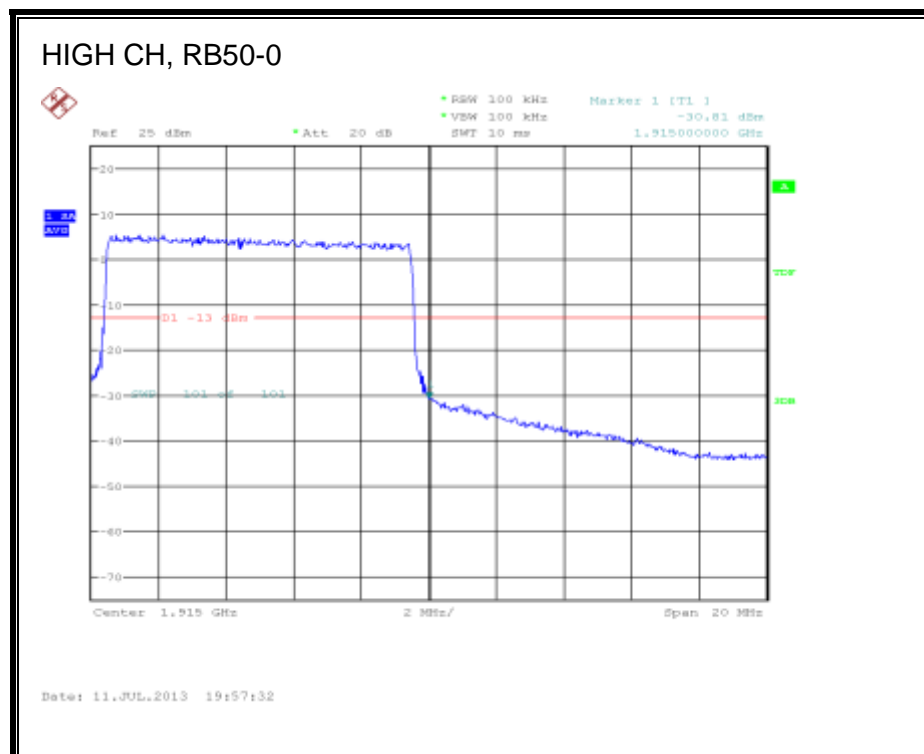
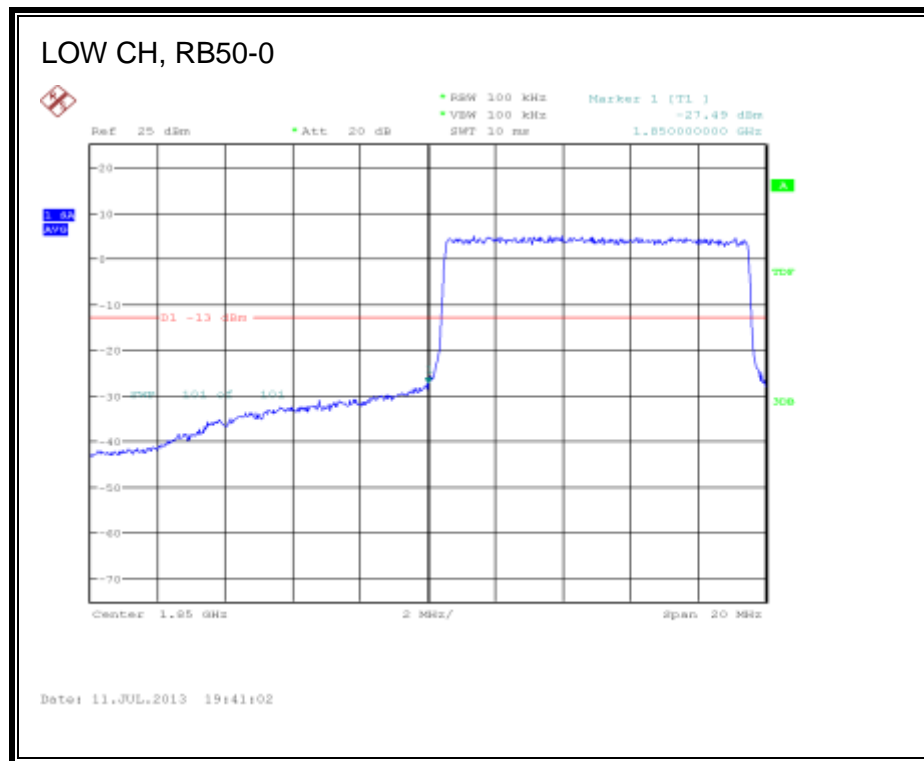


LTE QPSK Band 25 (10.0 MHz BAND WIDTH)

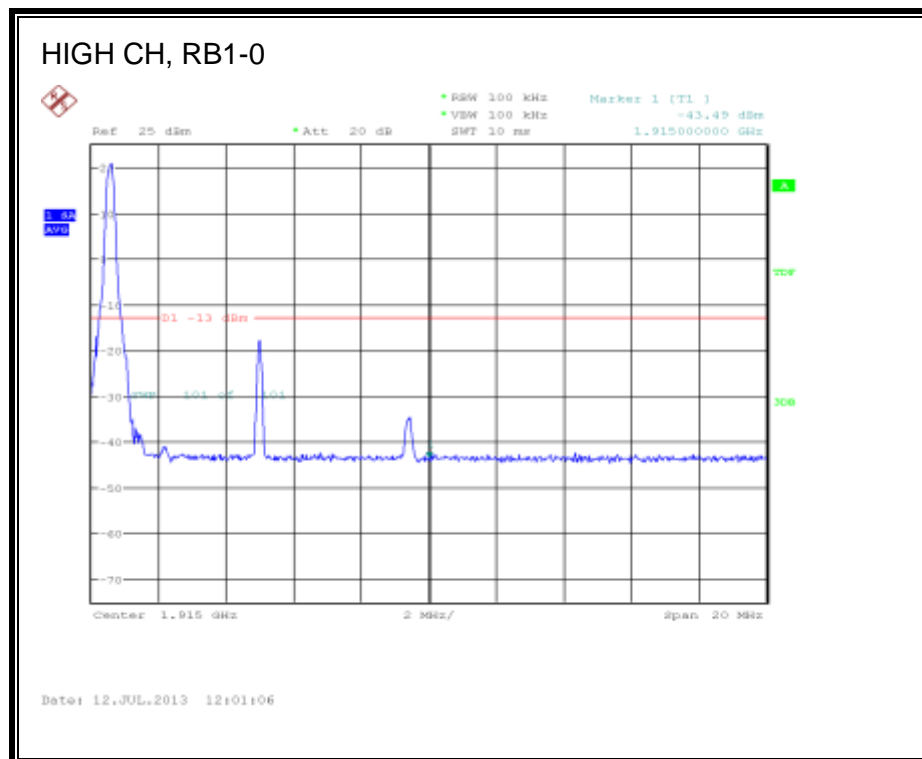
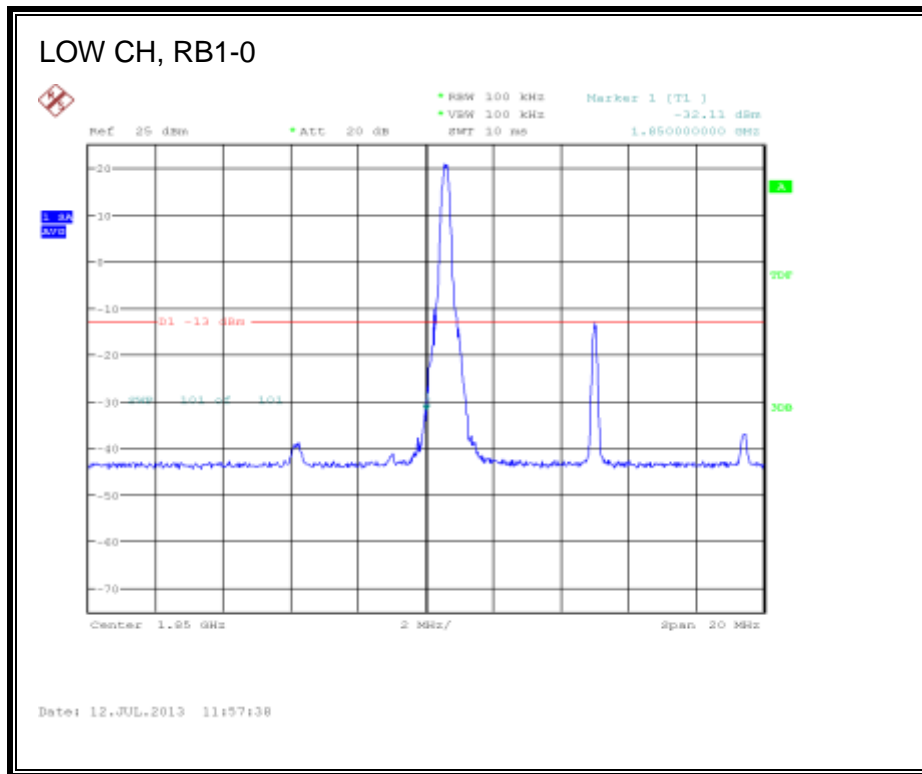


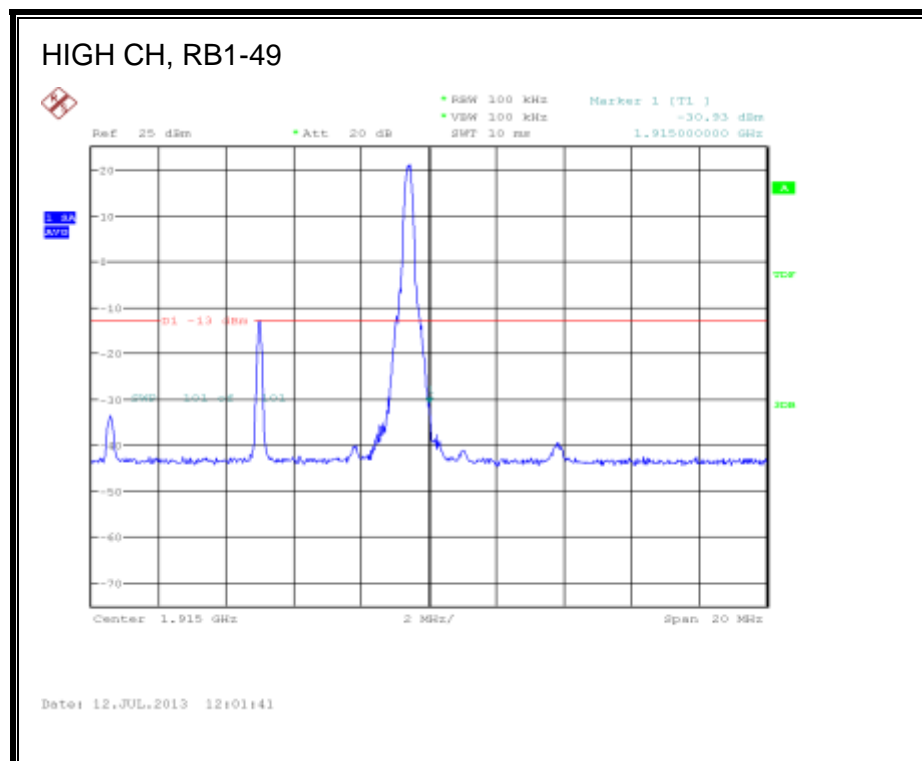
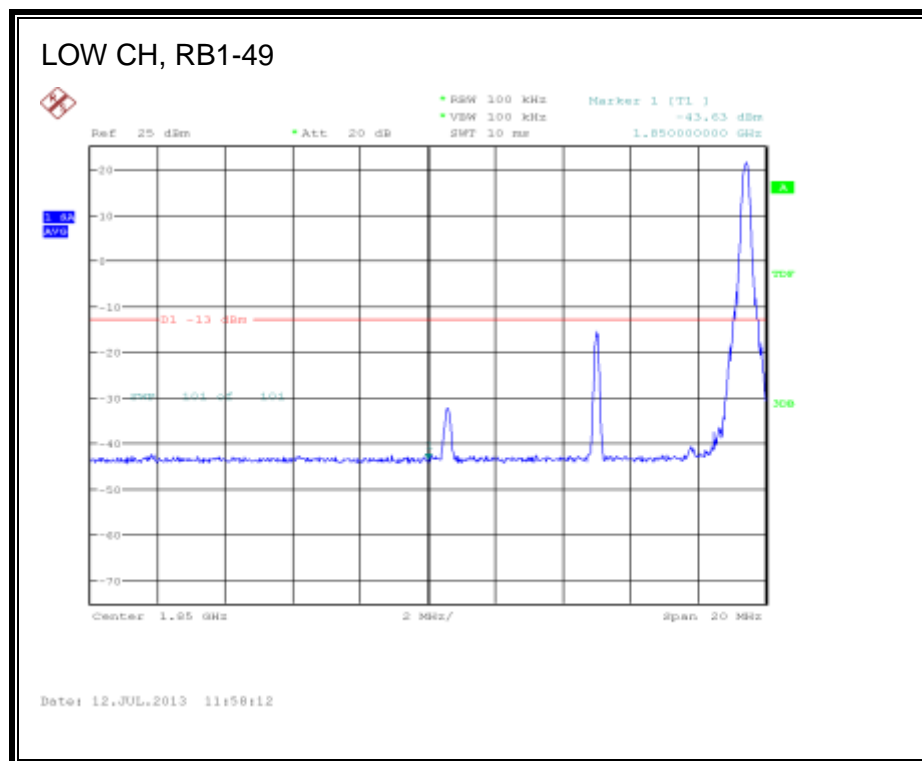


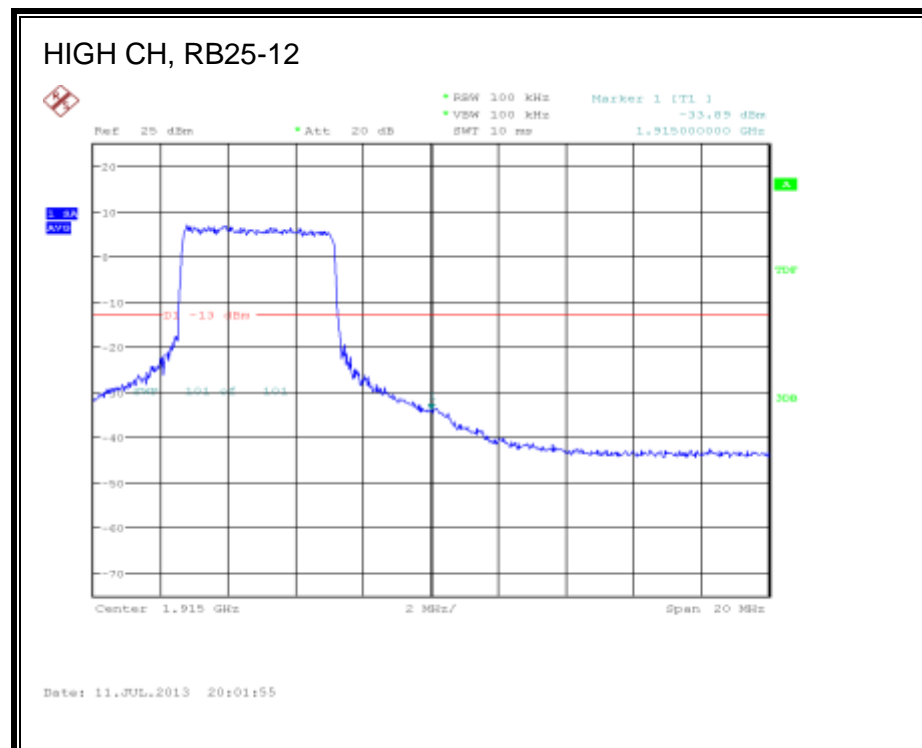
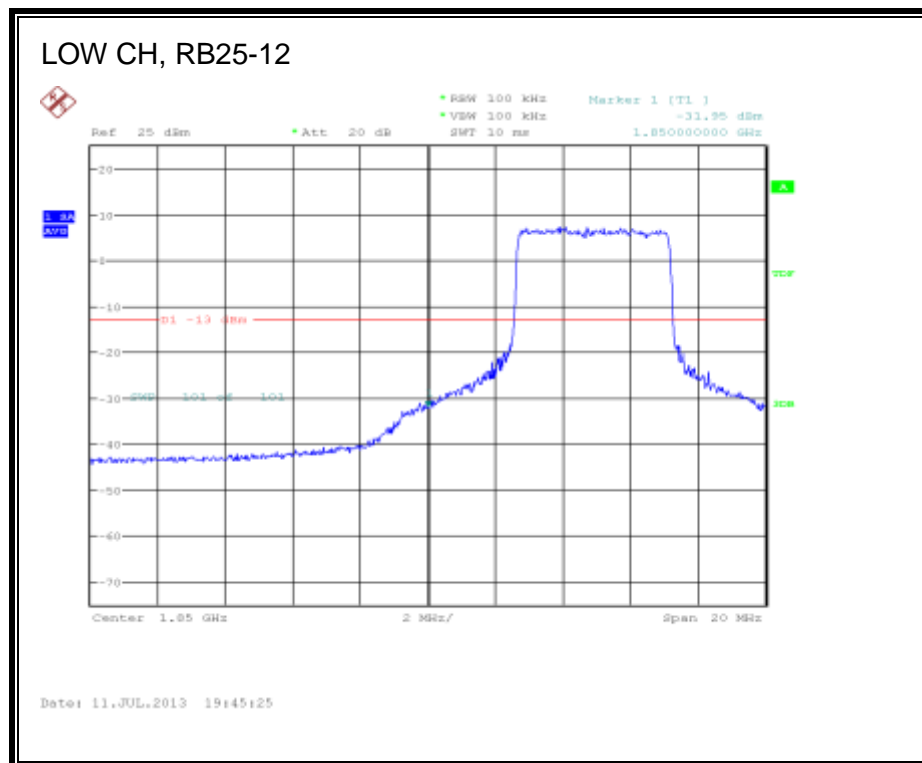


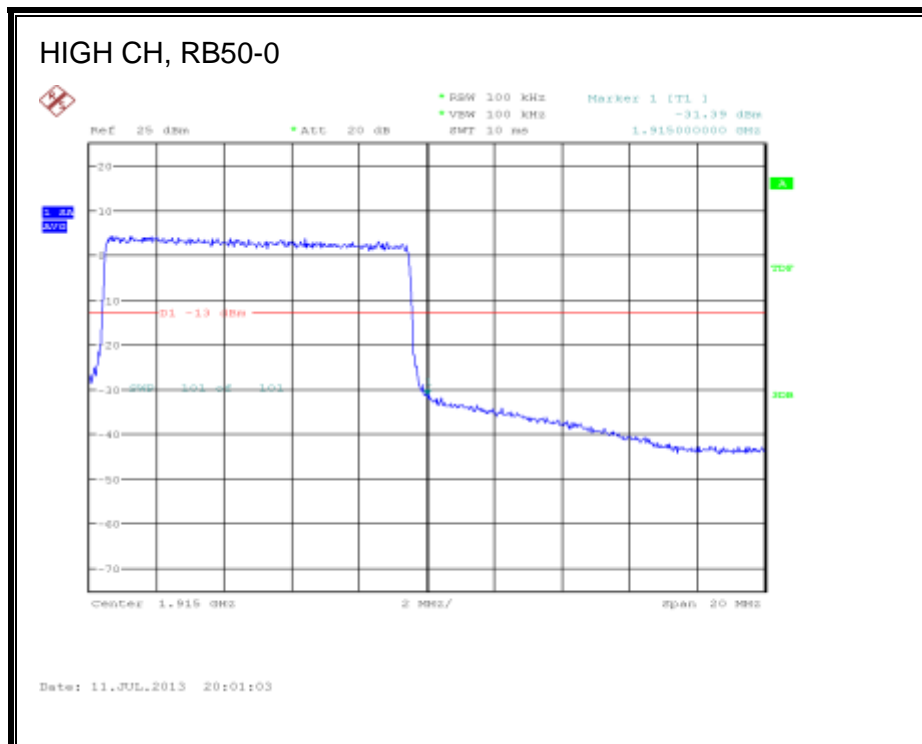
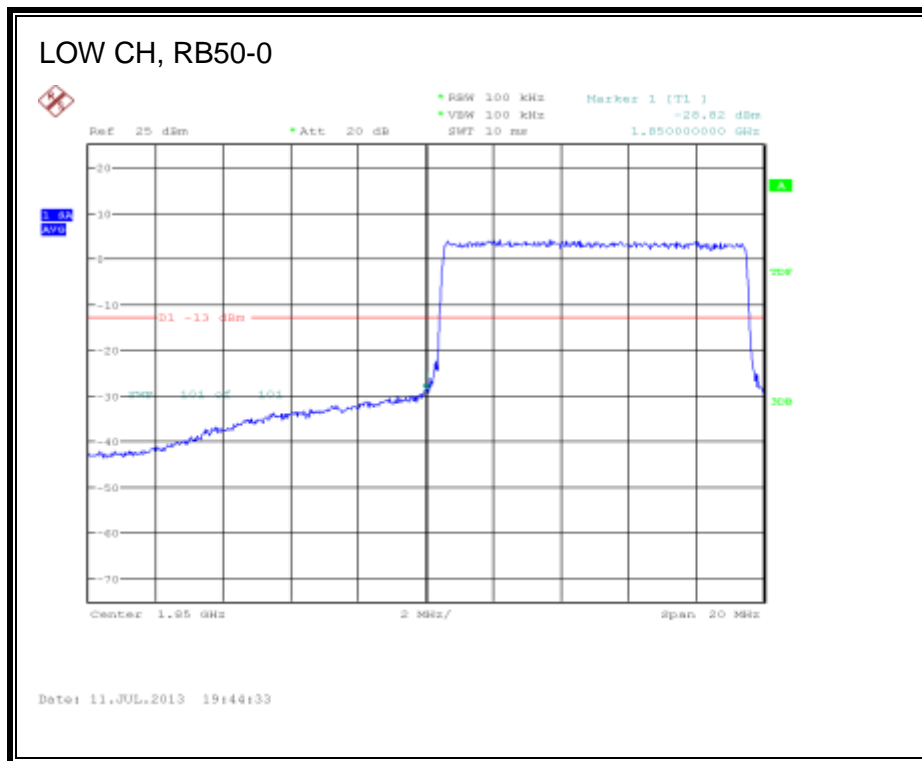


LTE 16QAM Band 25 (10.0 MHz BAND WIDTH)

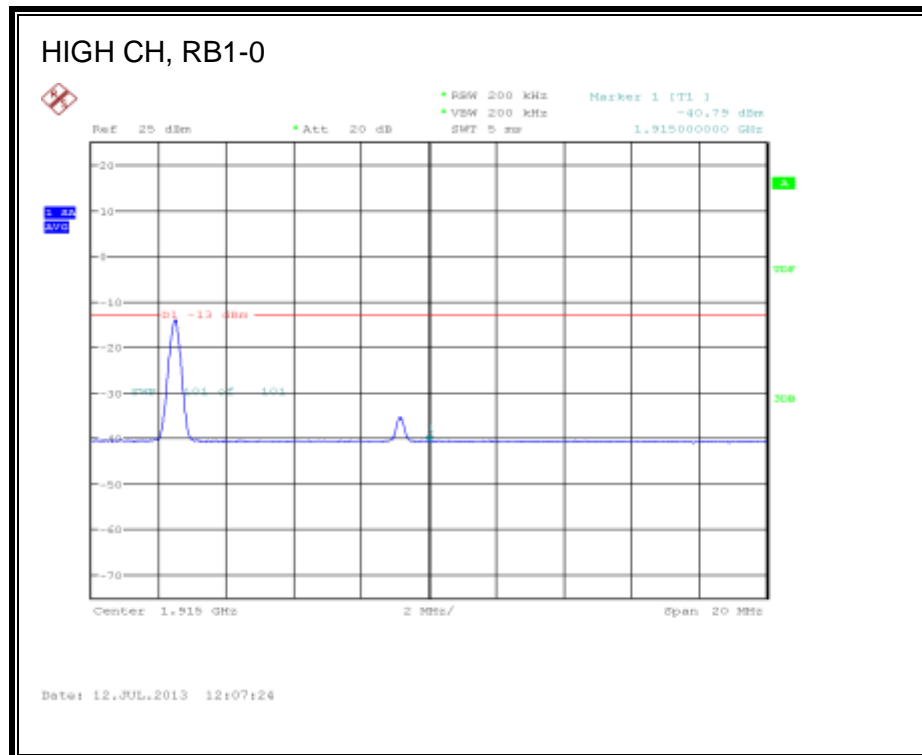
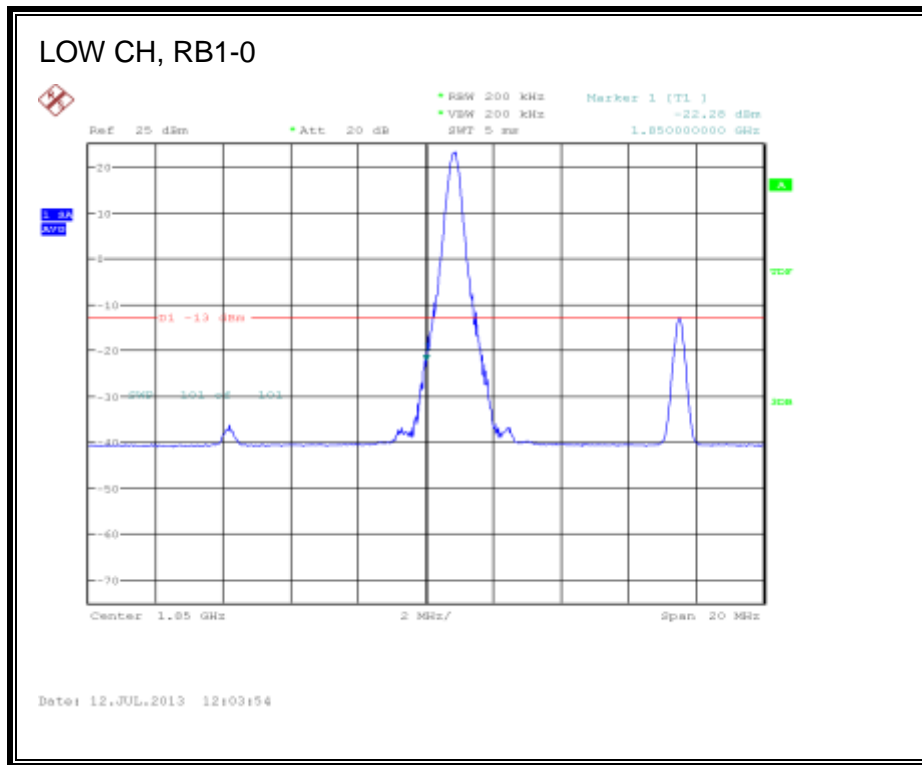


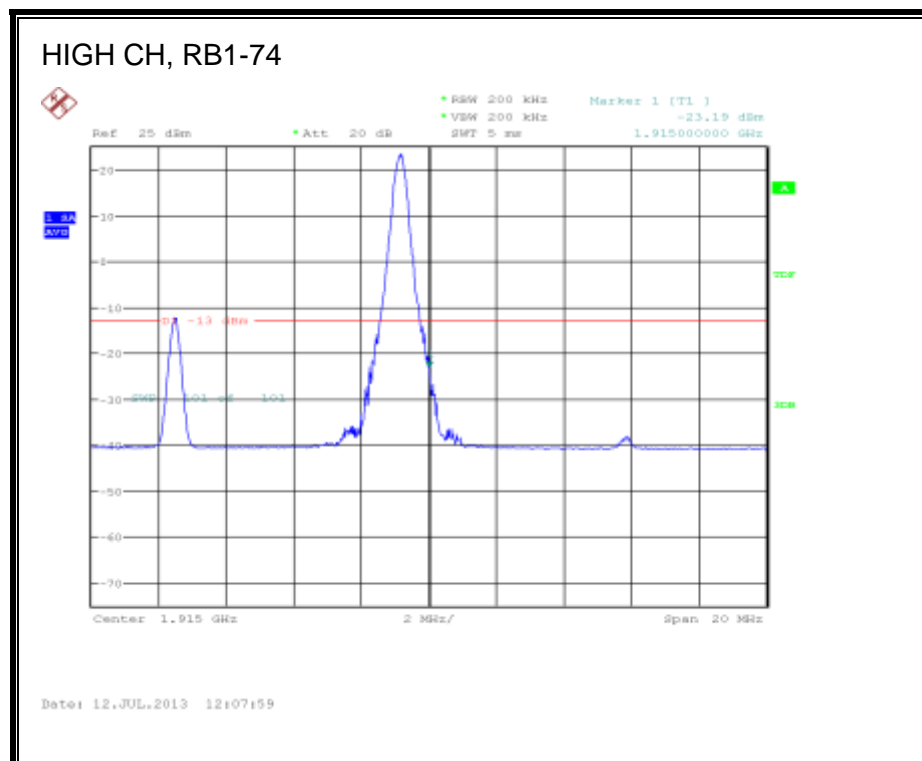
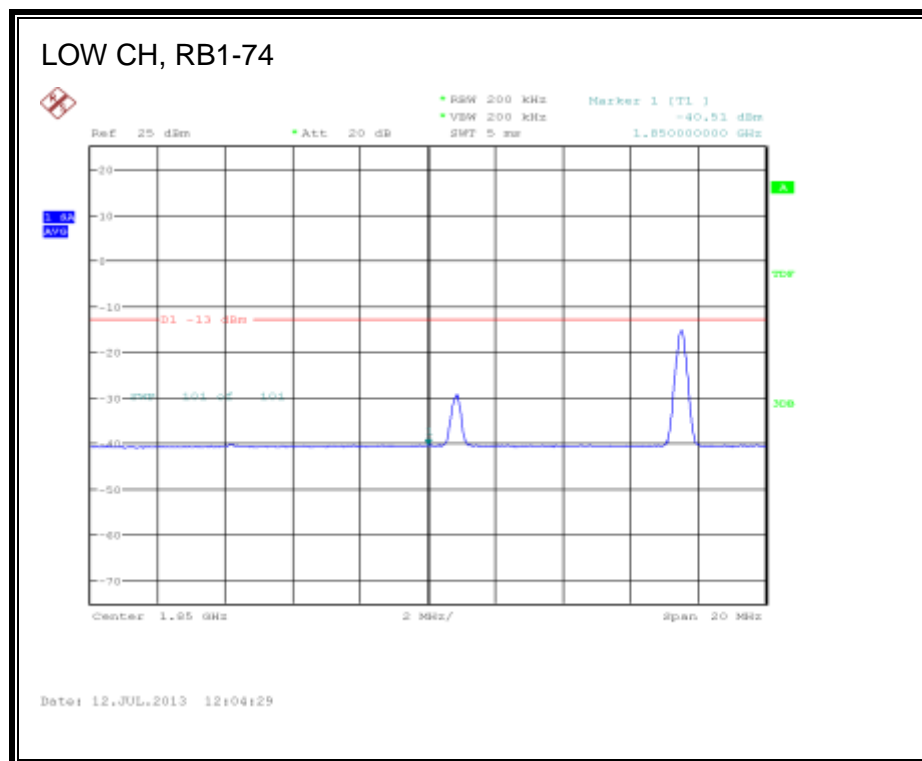


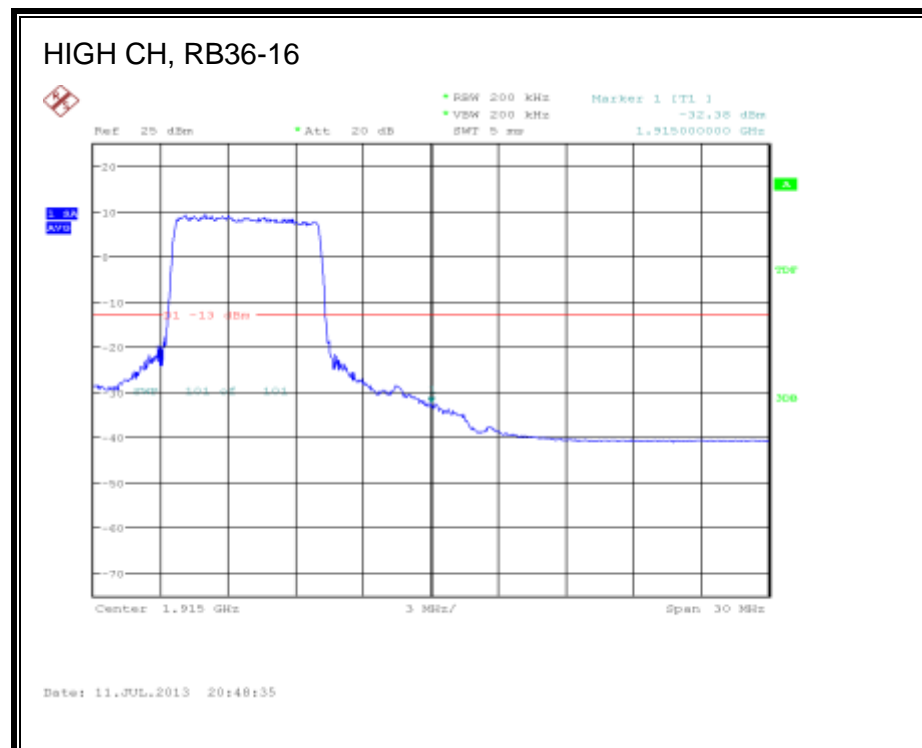
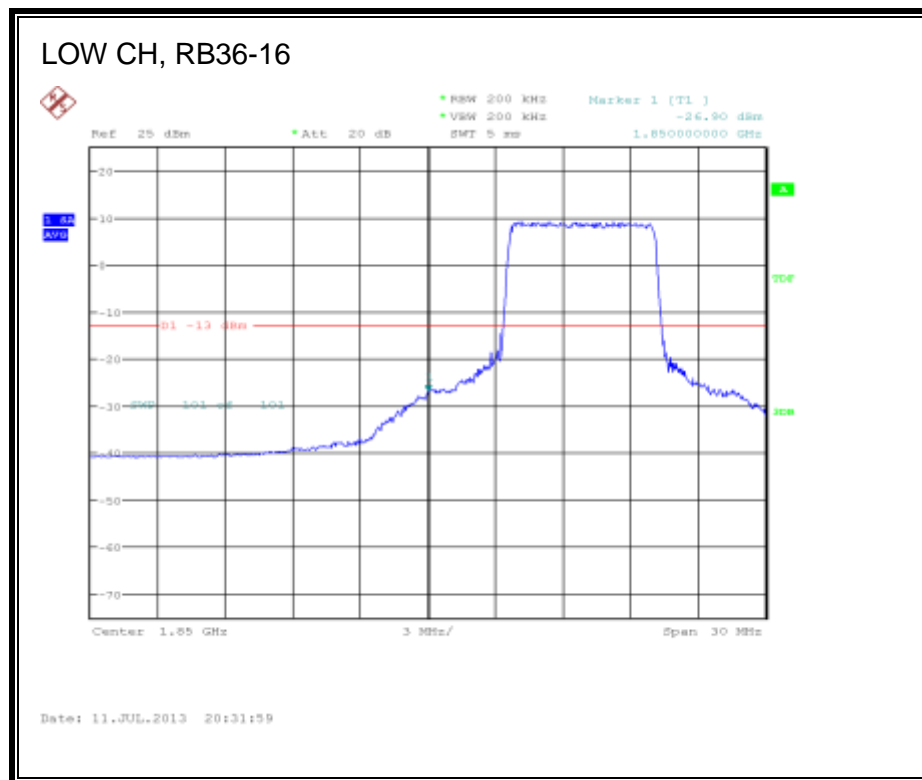


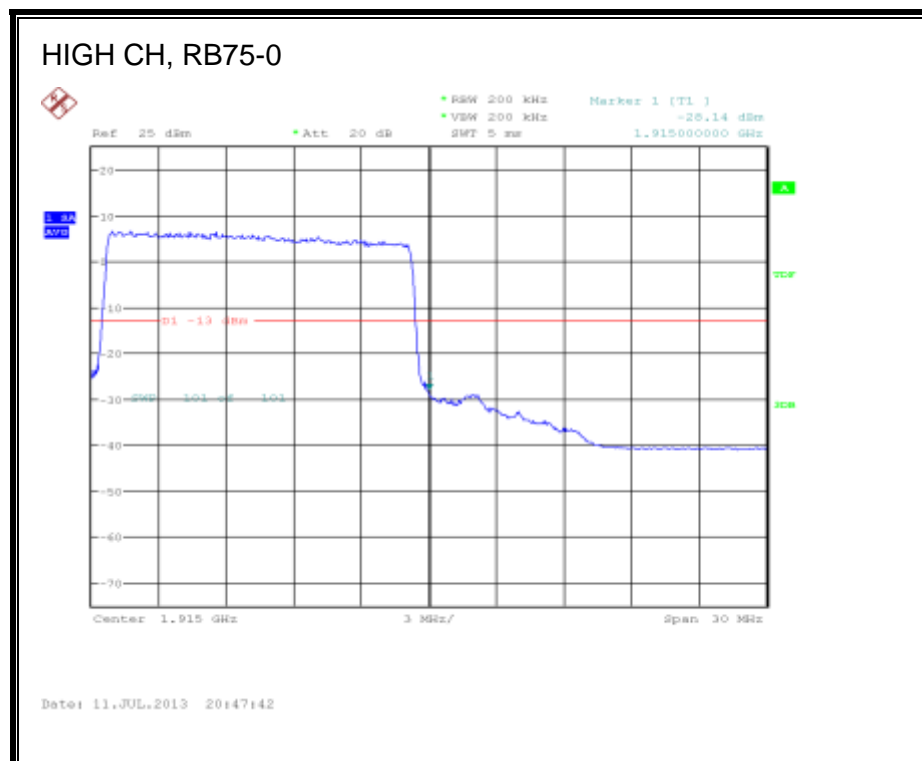
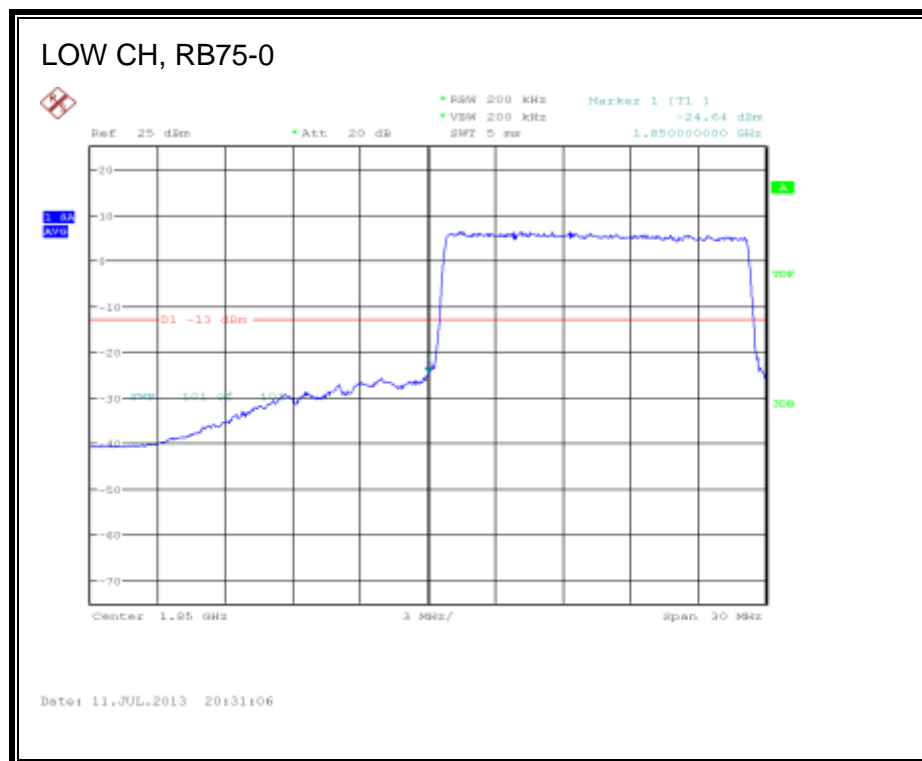


LTE QPSK Band 25 (15.0 MHz BAND WIDTH)

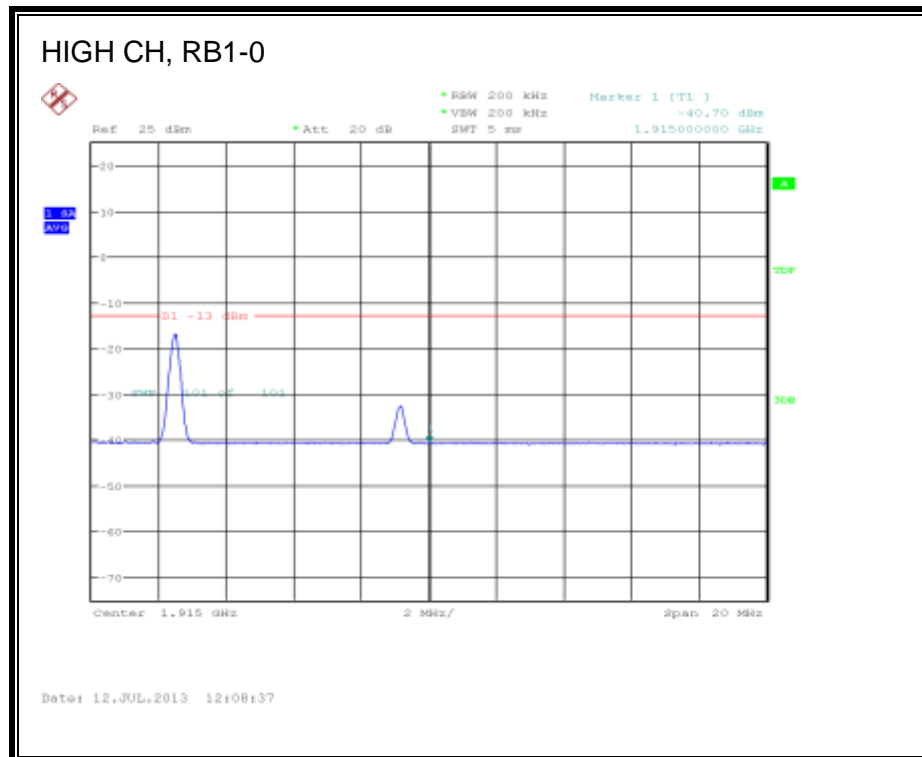
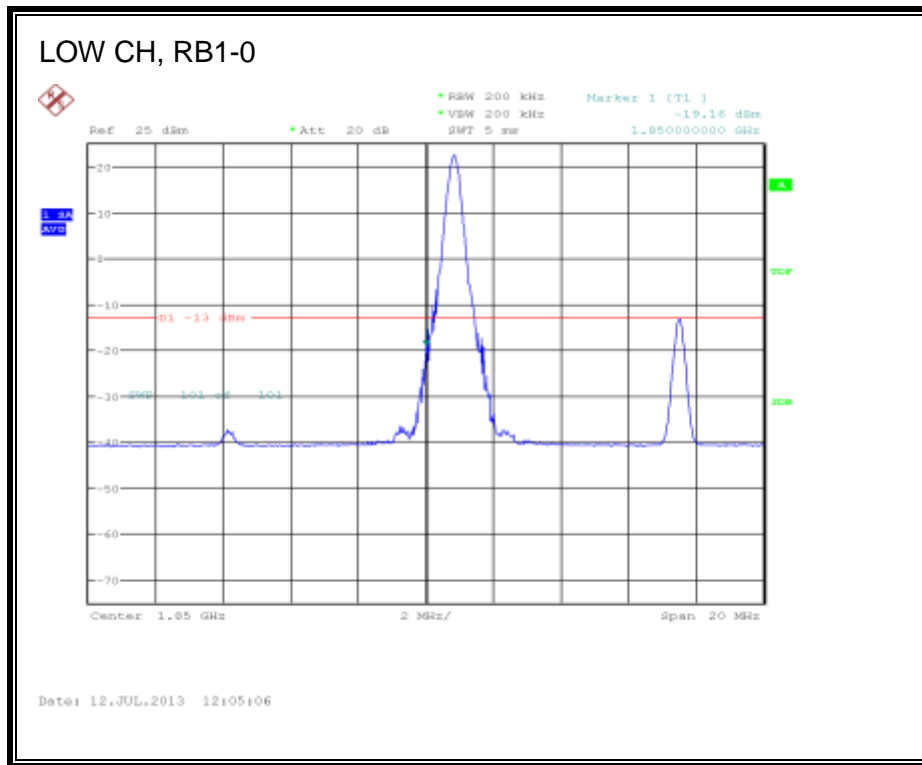


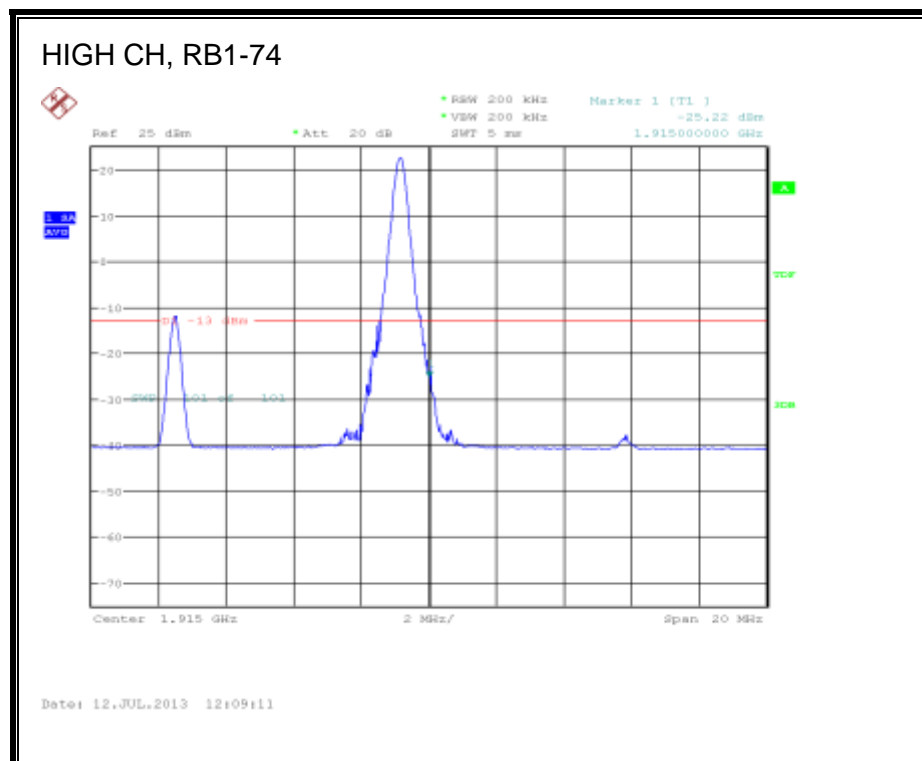
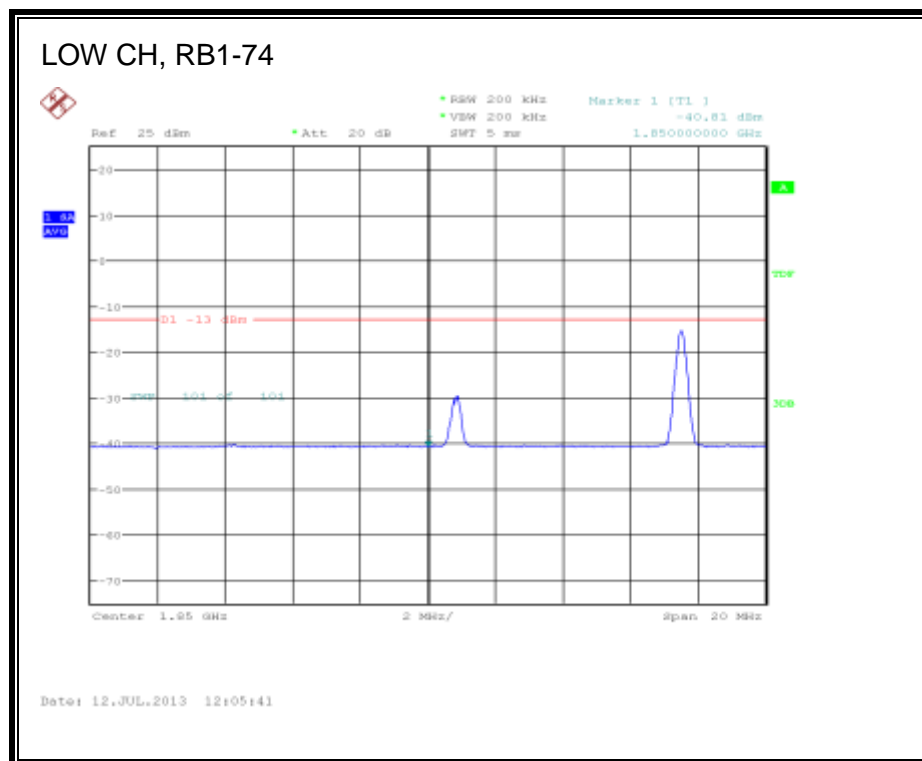


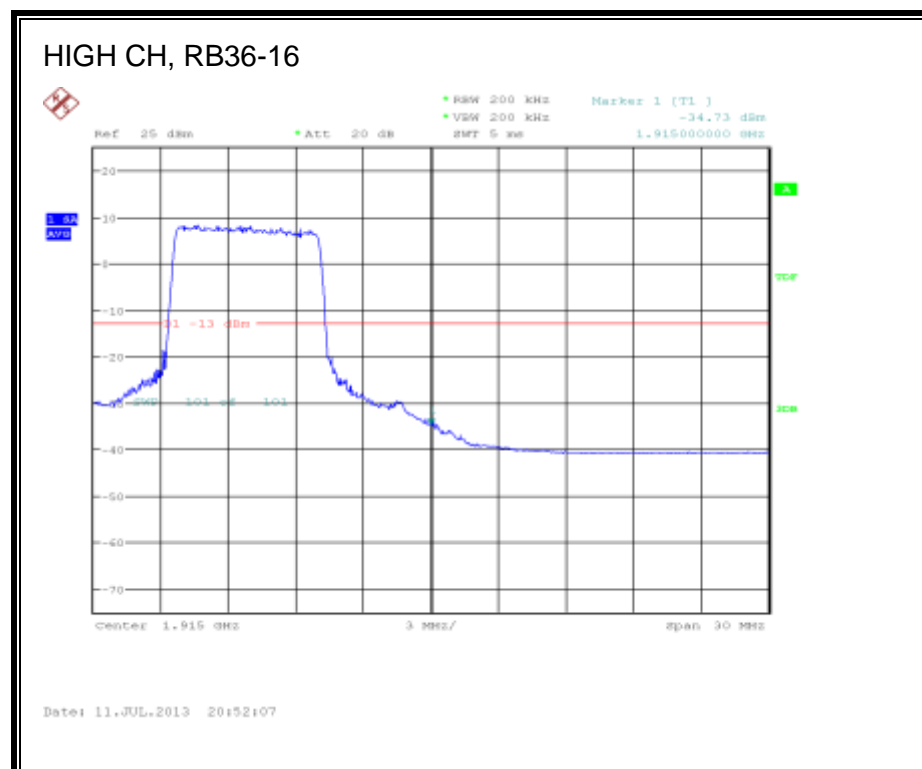
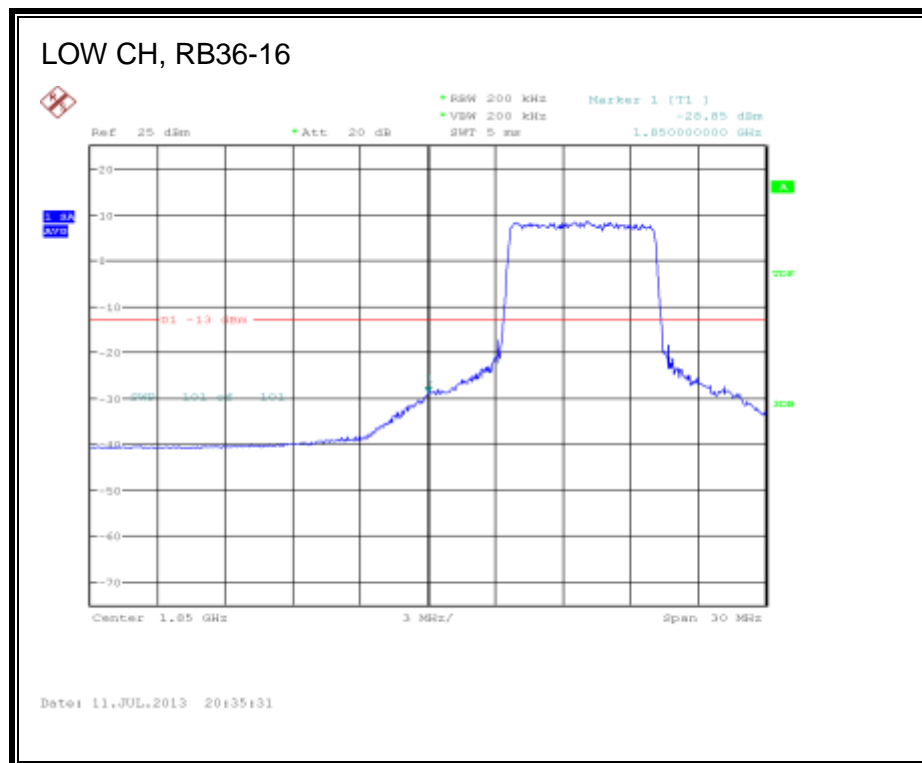


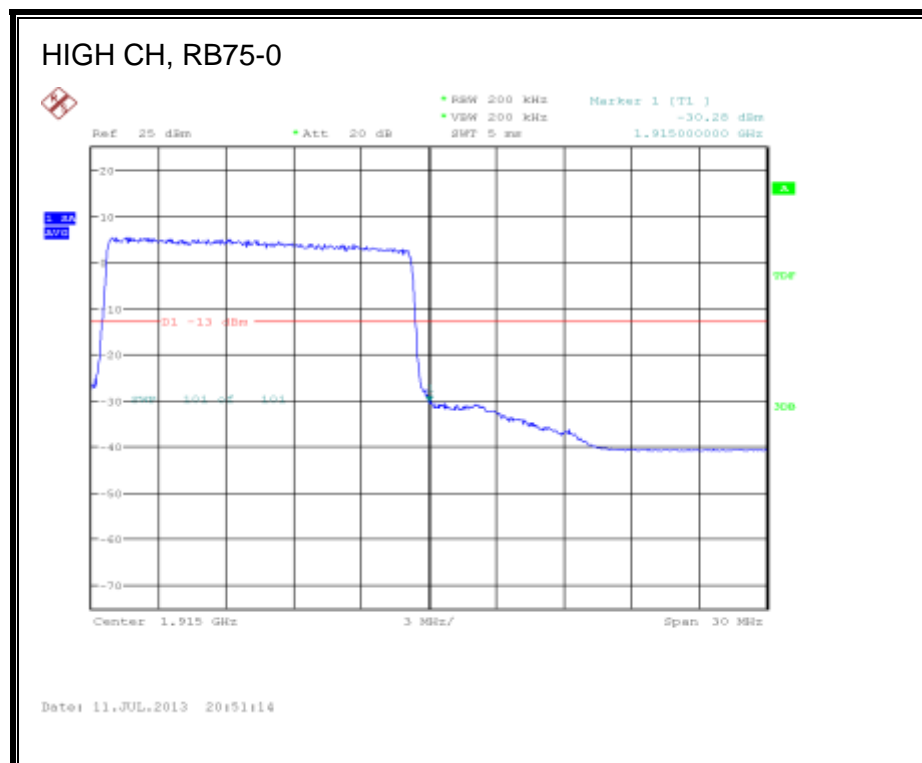
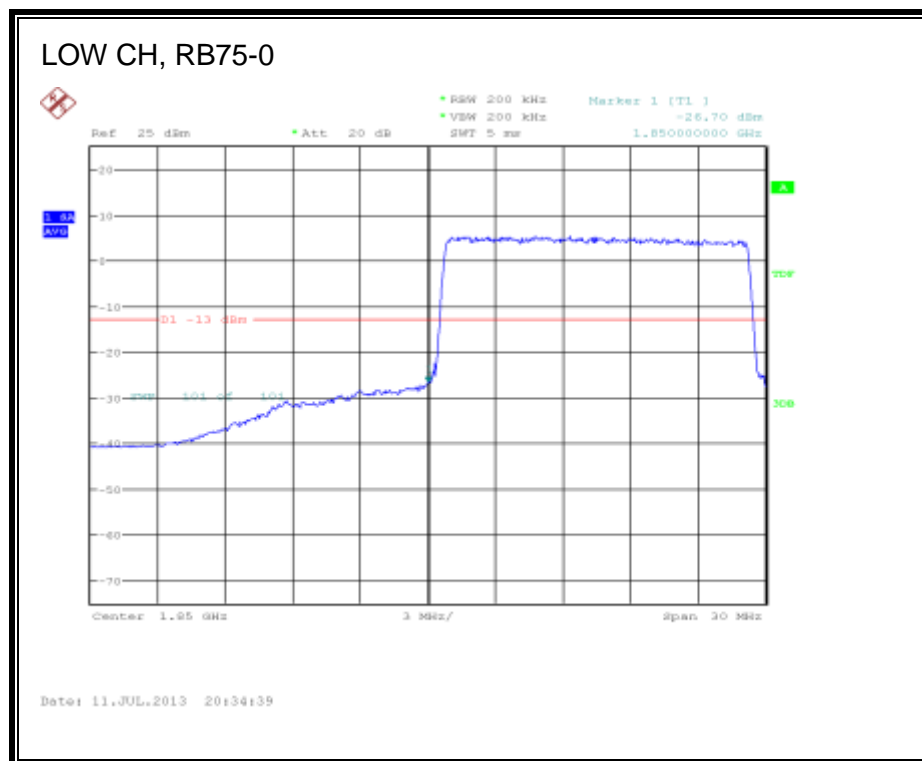


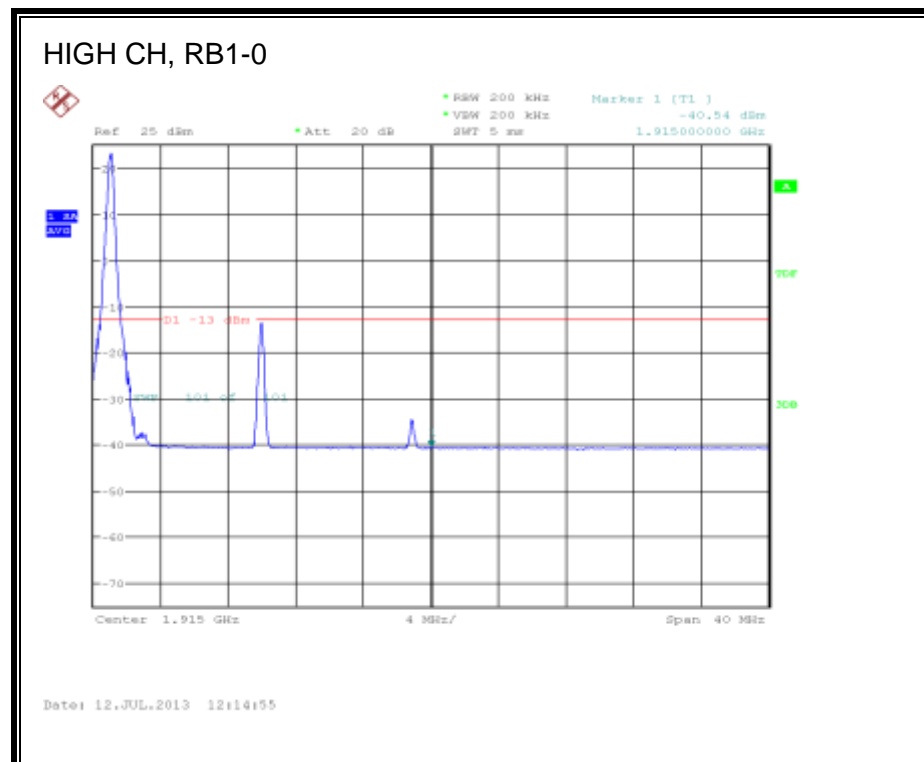
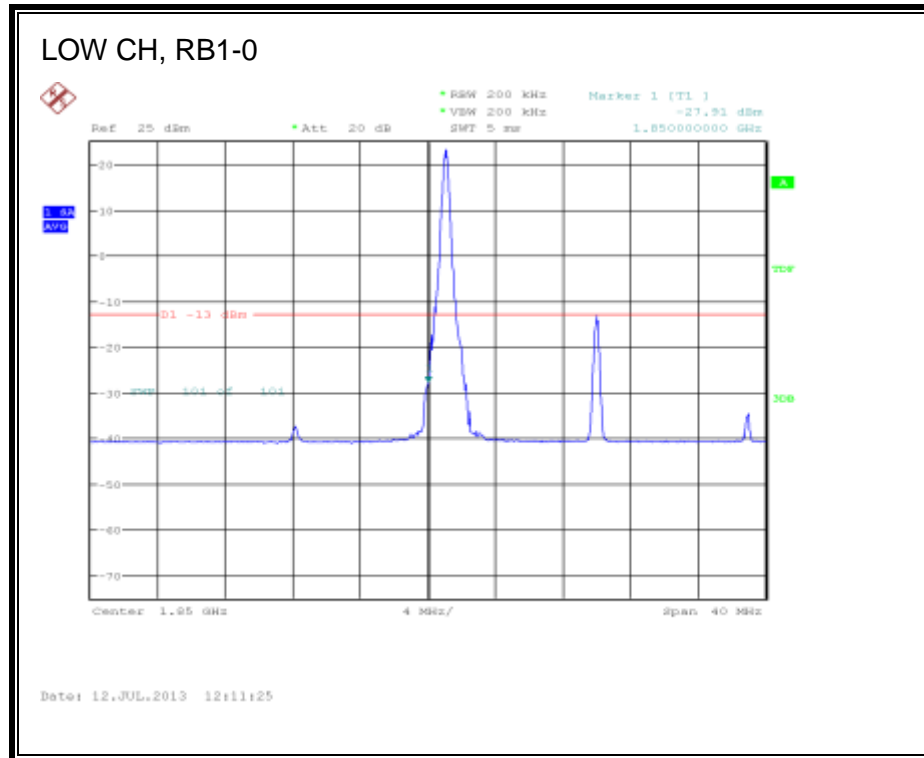
LTE 16QAM Band 25(15.0 MHz BAND WIDTH)

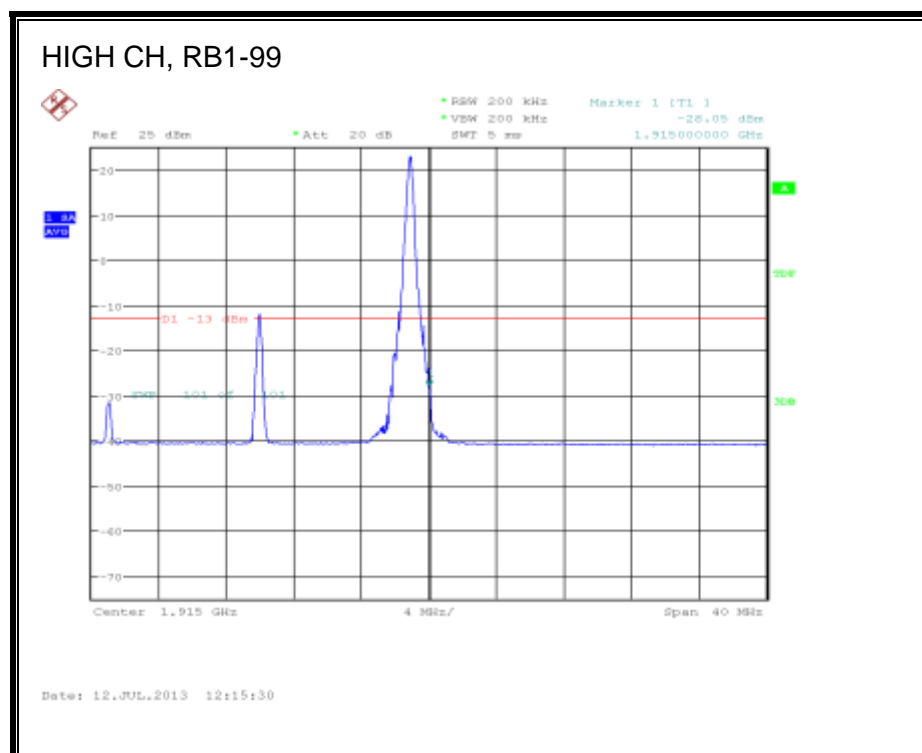
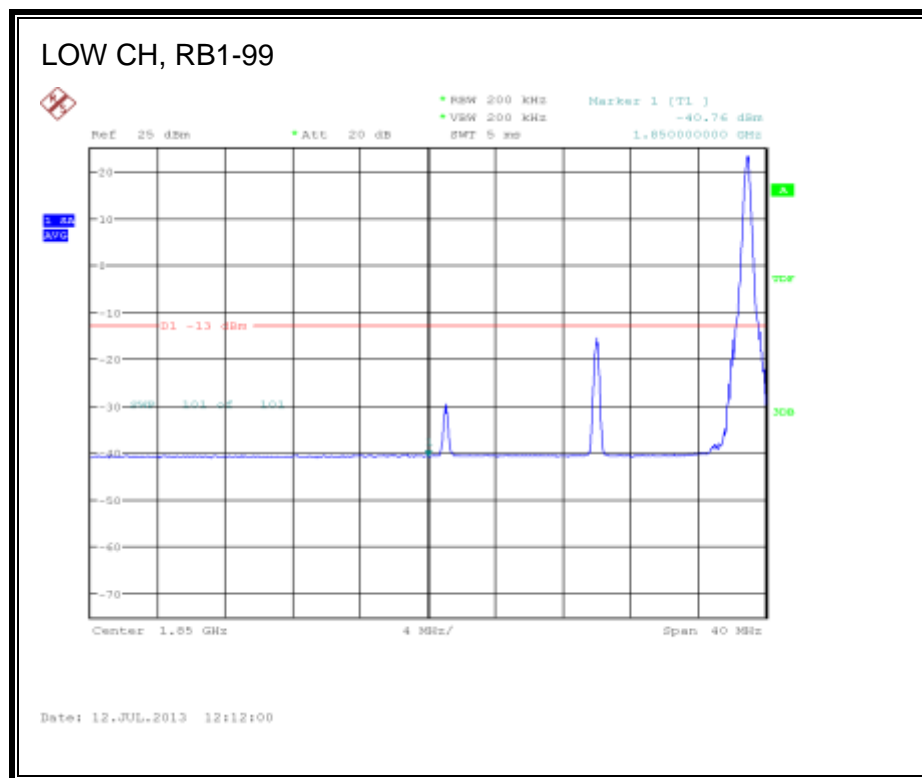


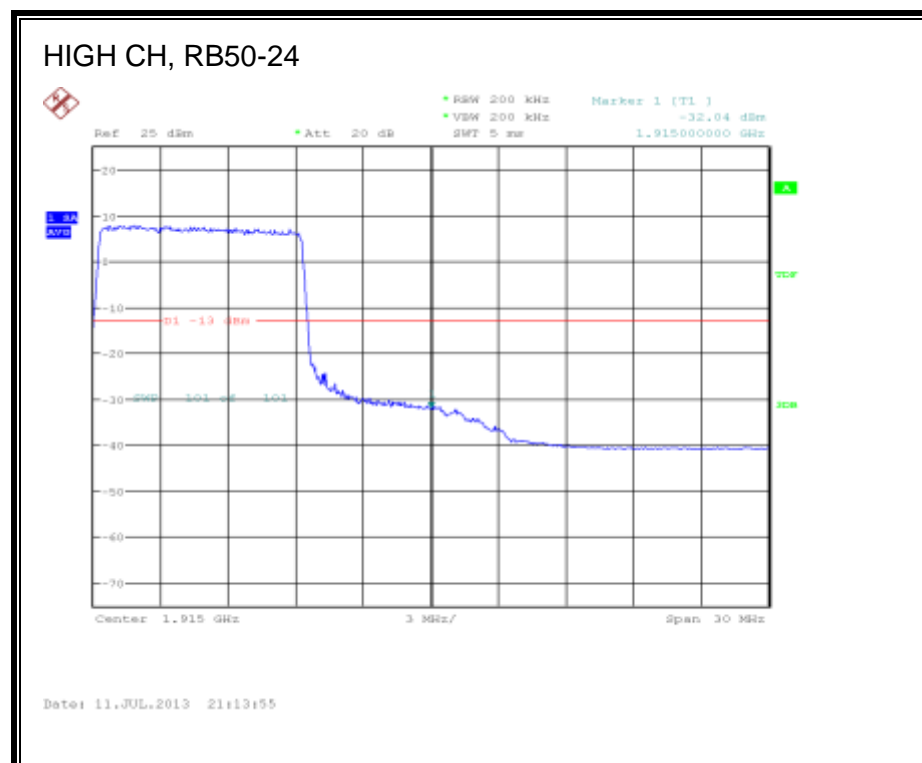
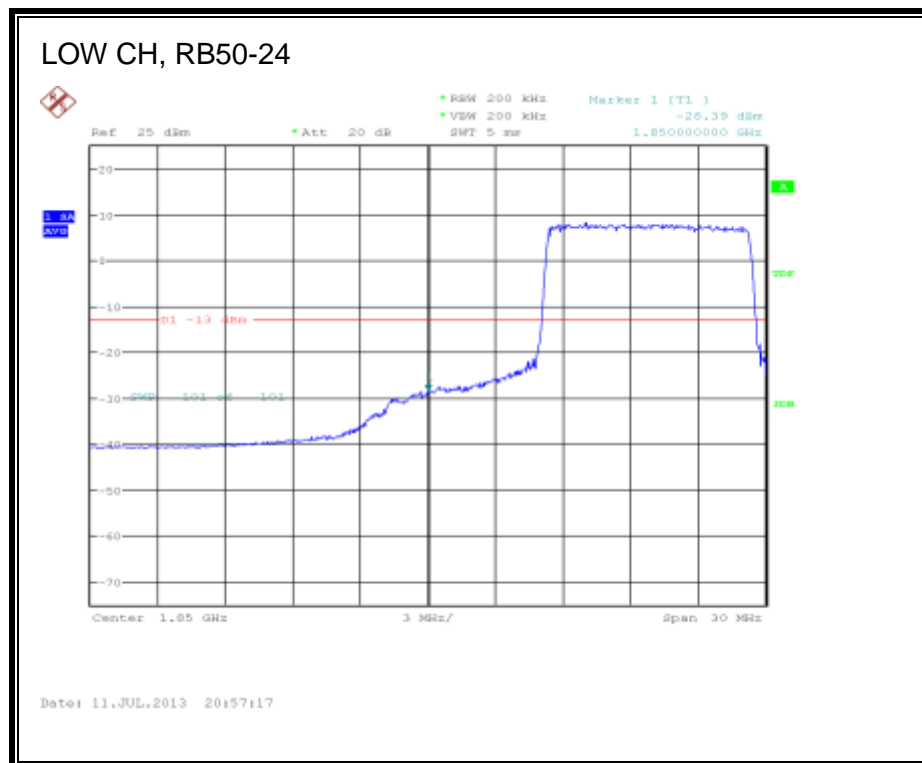


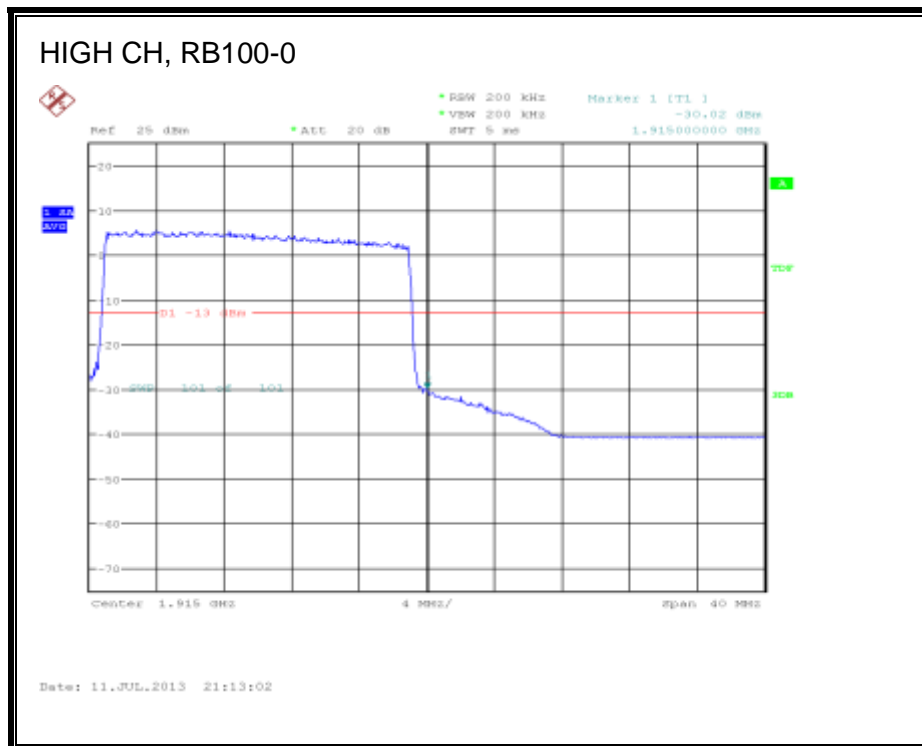
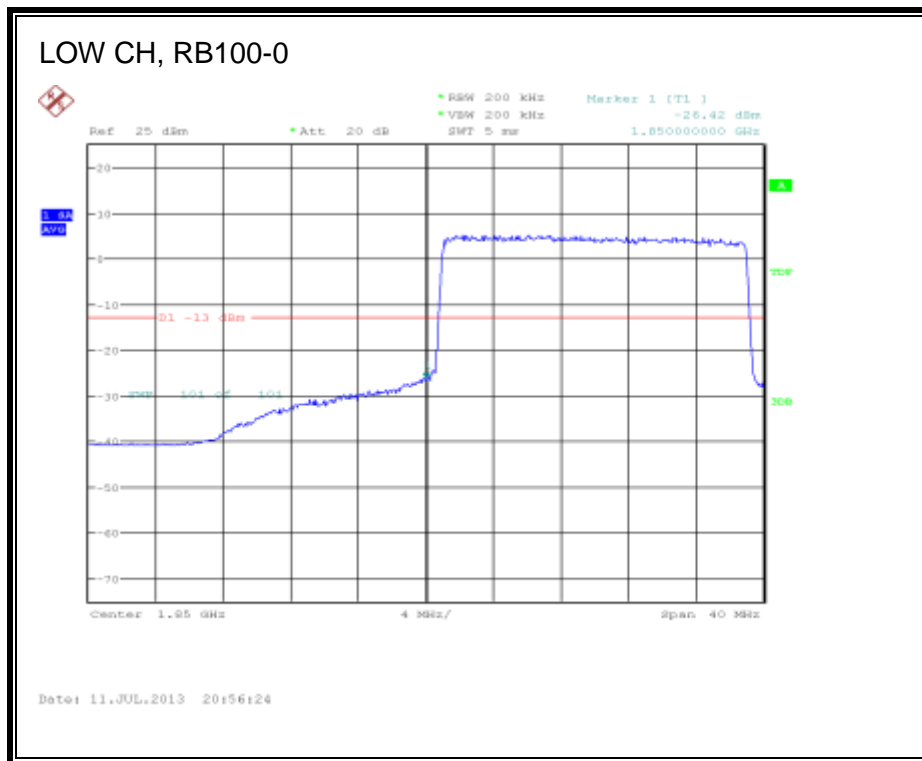




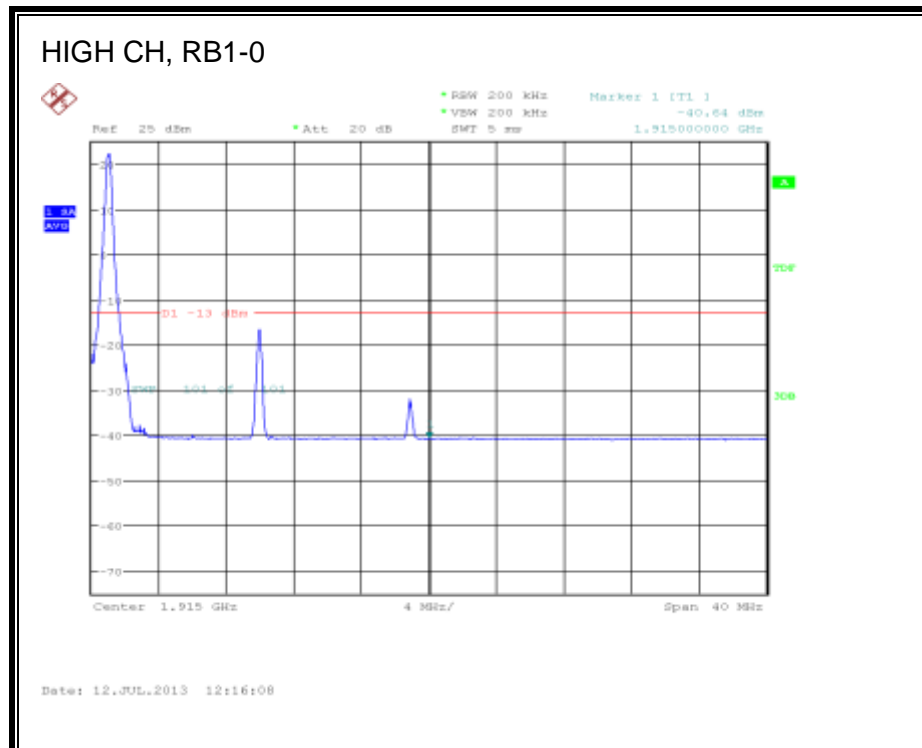
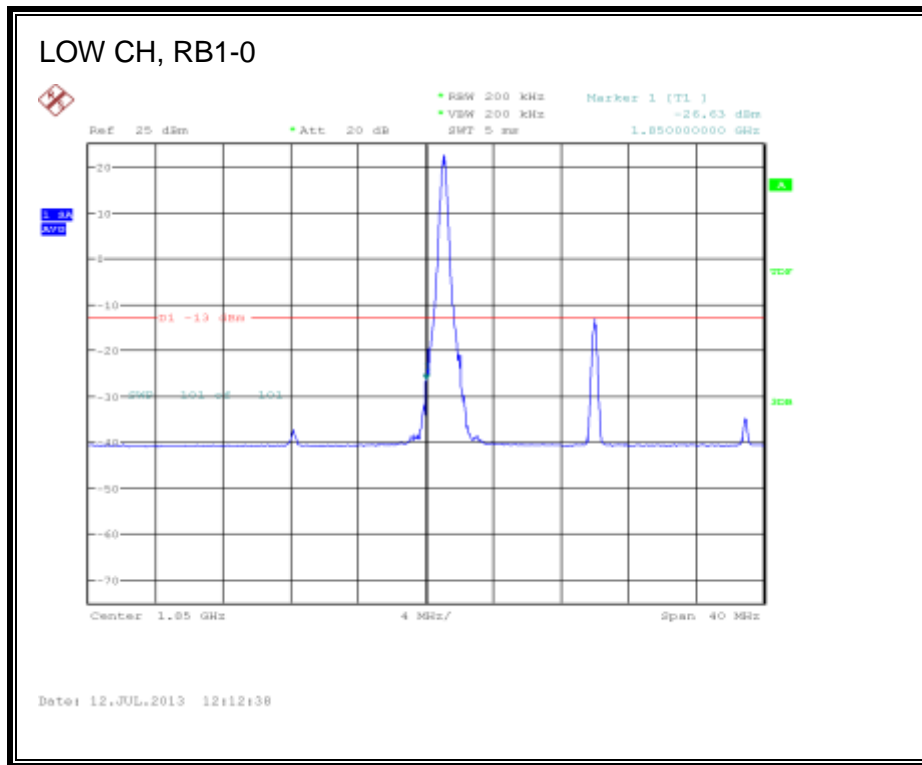
LTE QPSK Band 25 (20.0 MHz BAND WIDTH)

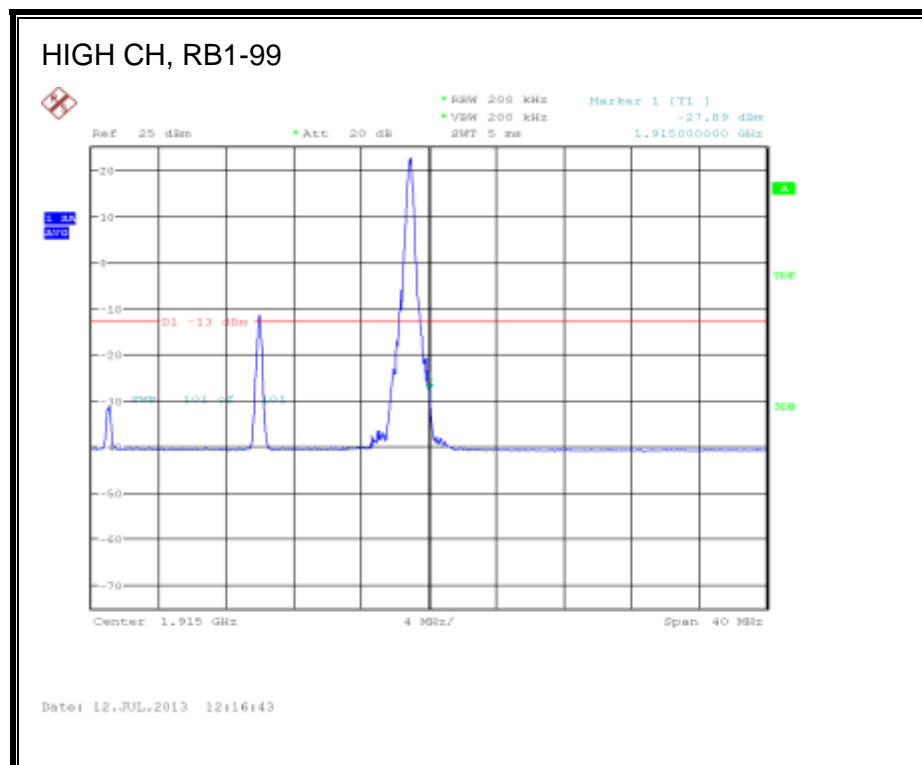
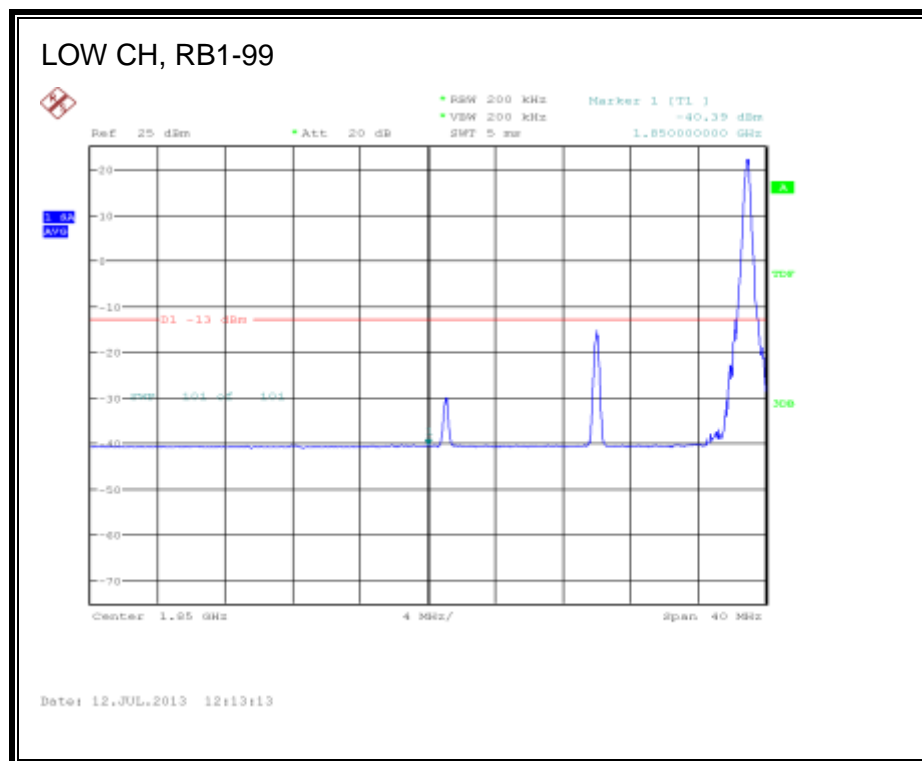


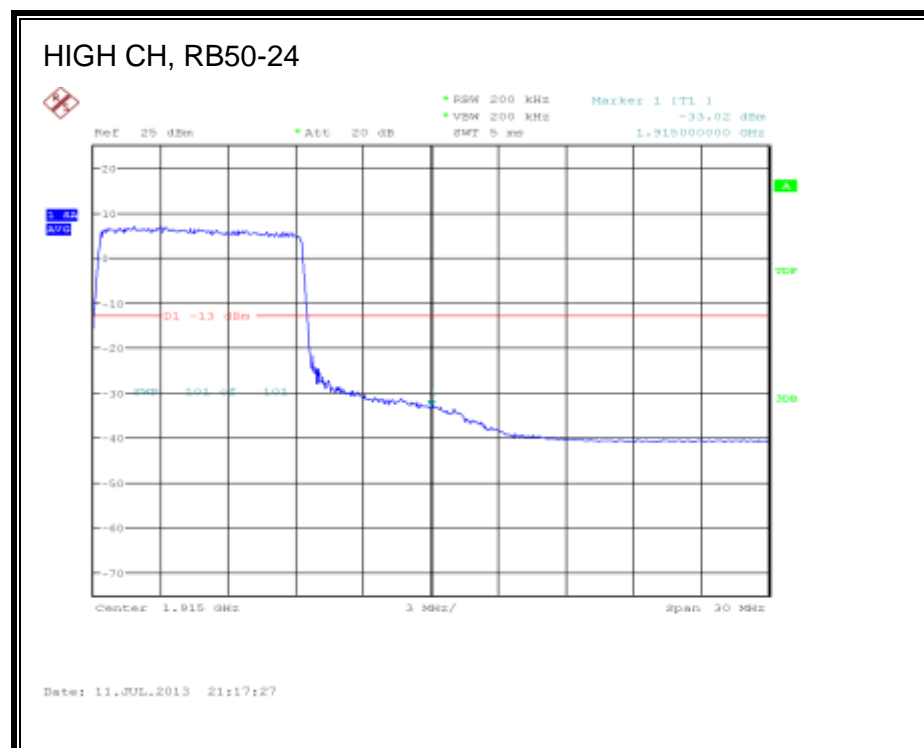
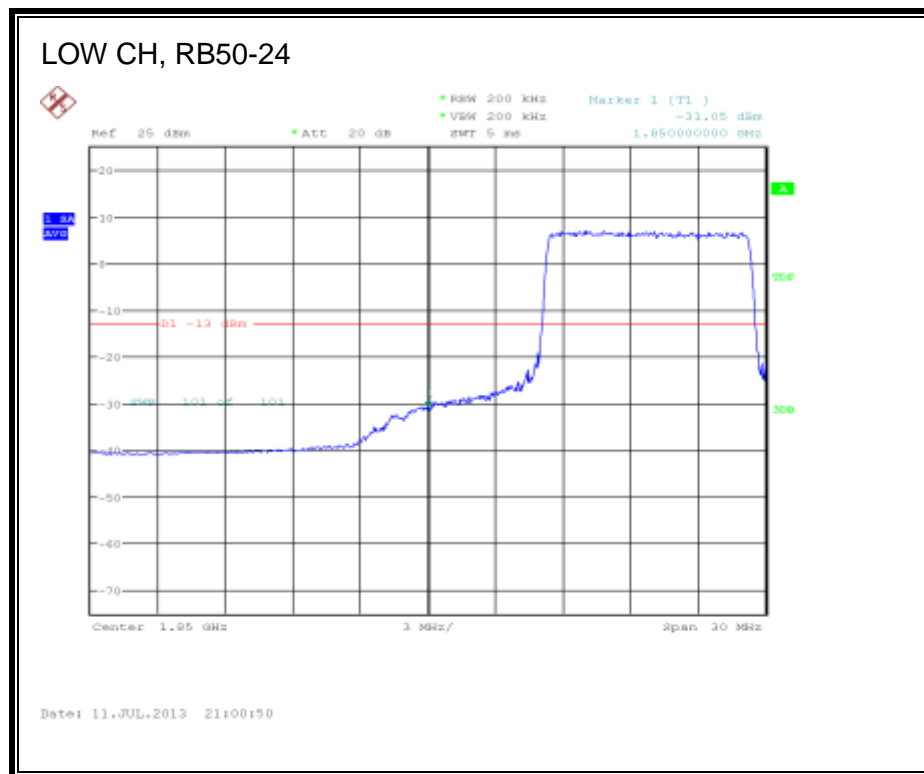


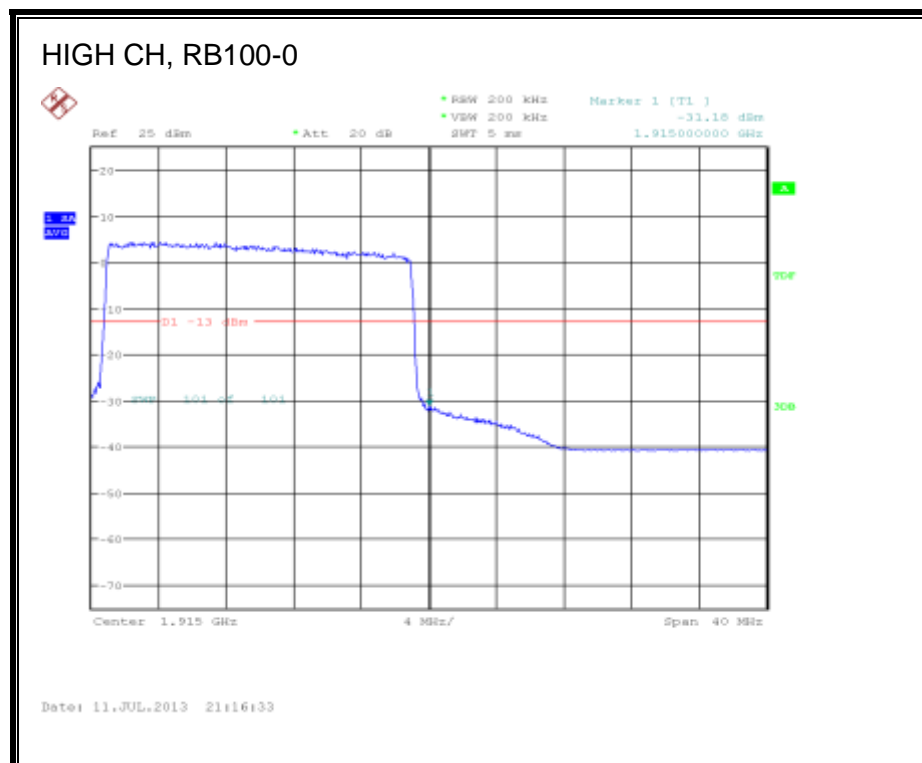
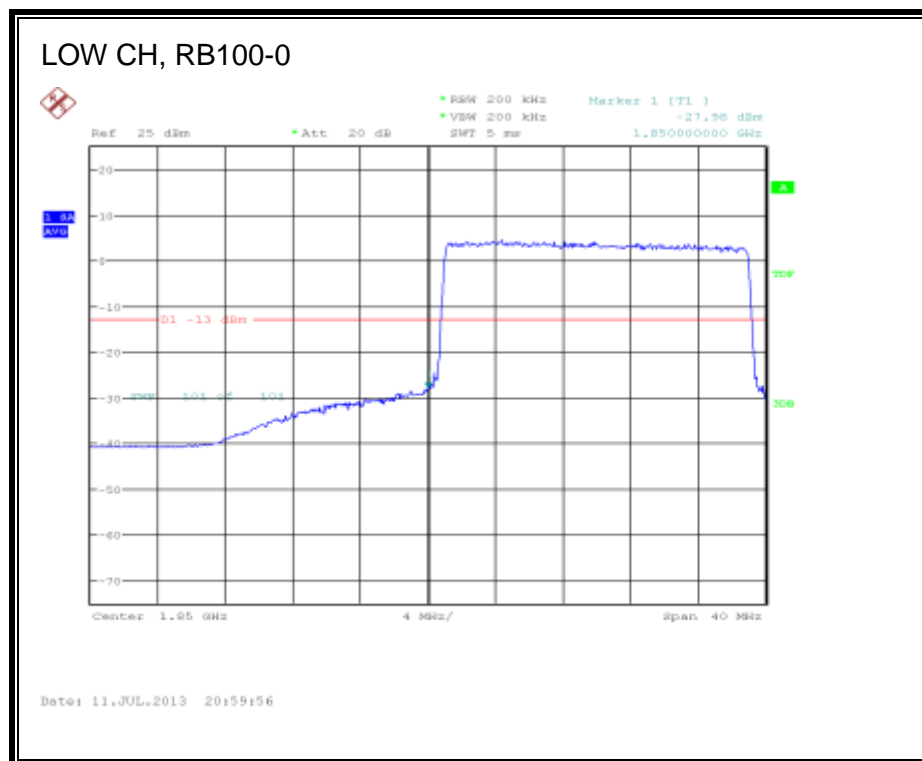


LTE 16QAM Band 25 (20.0 MHz BAND WIDTH)



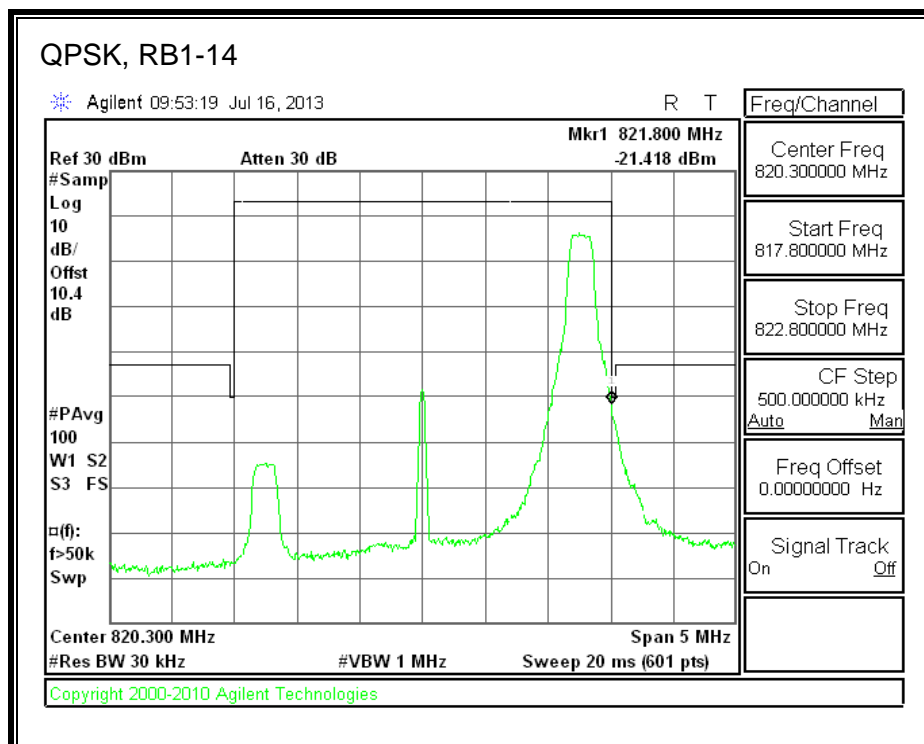
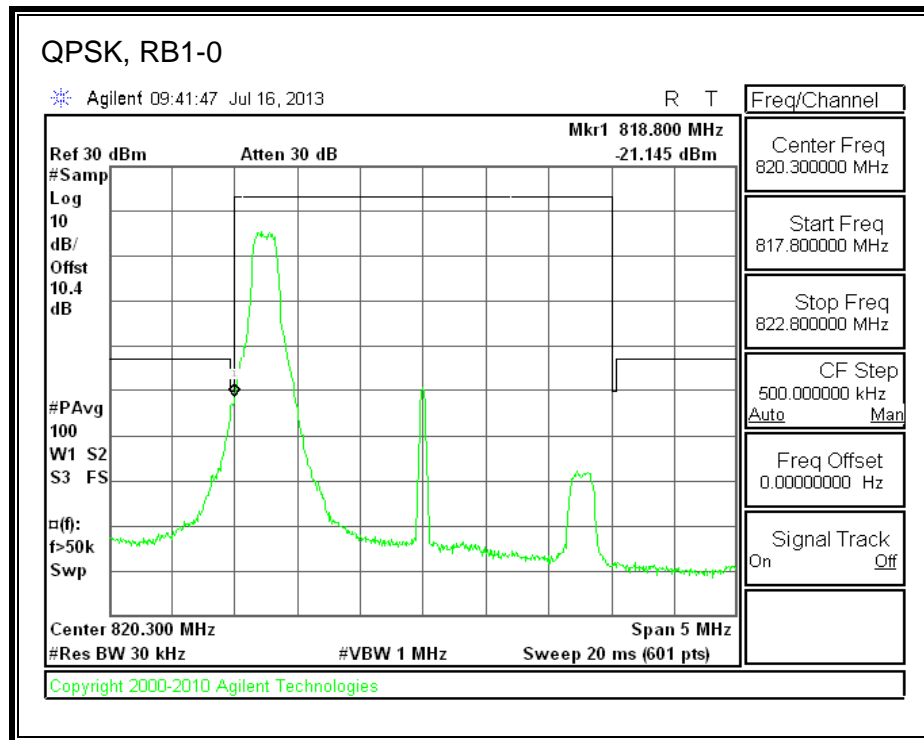


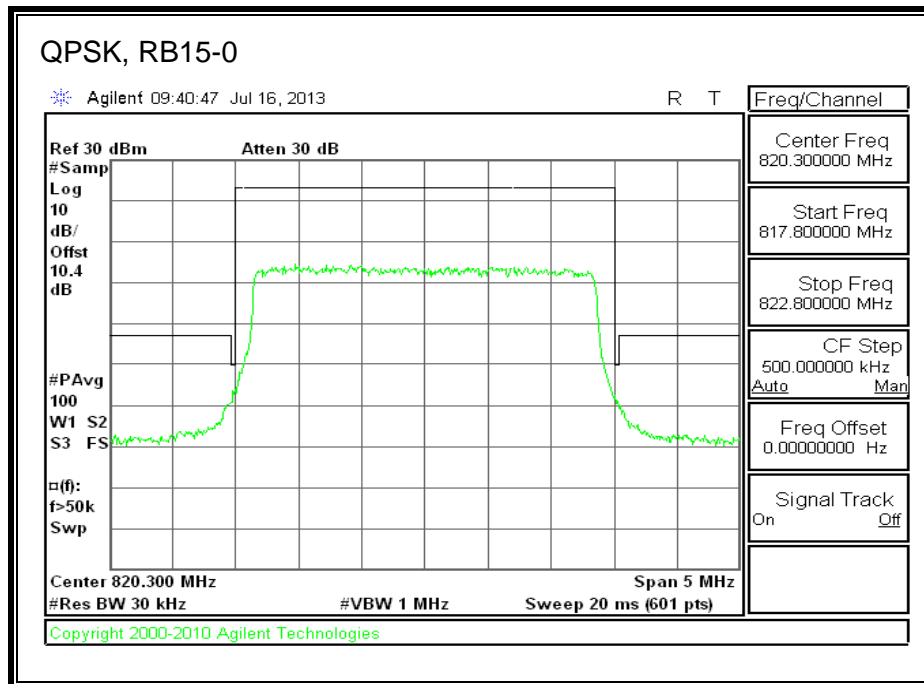
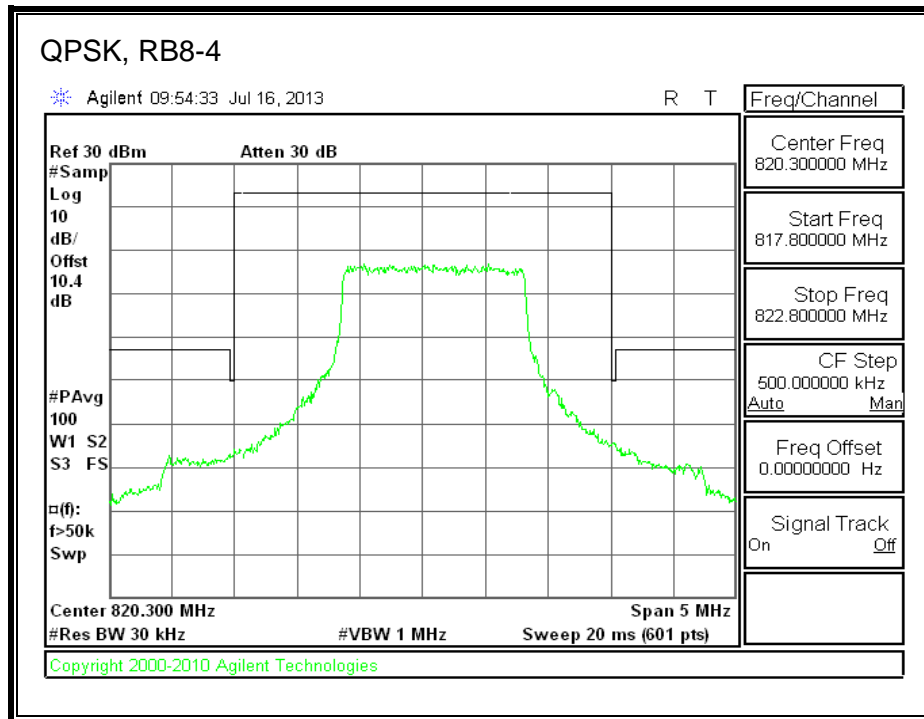


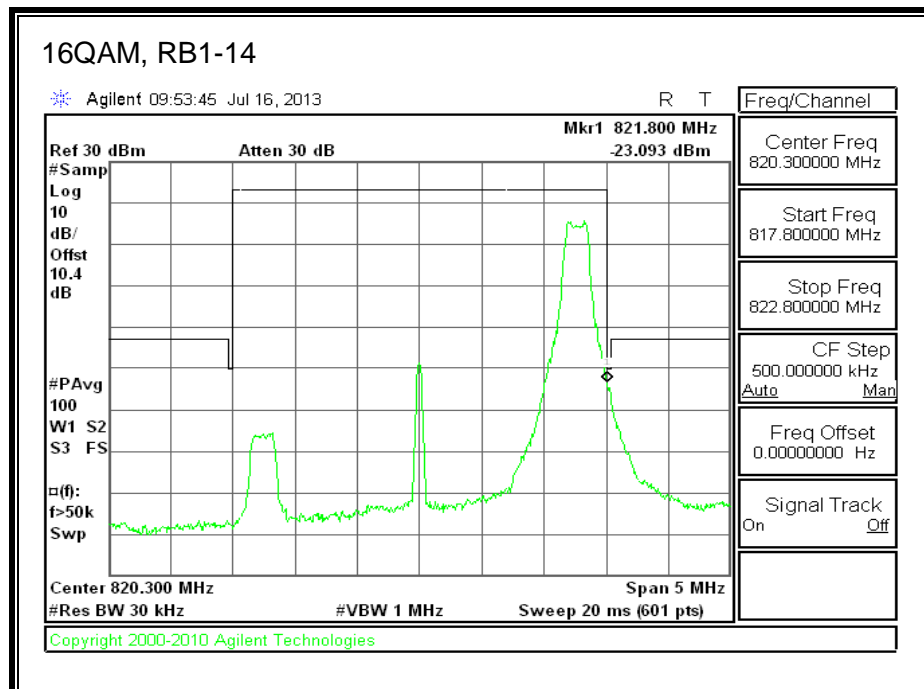
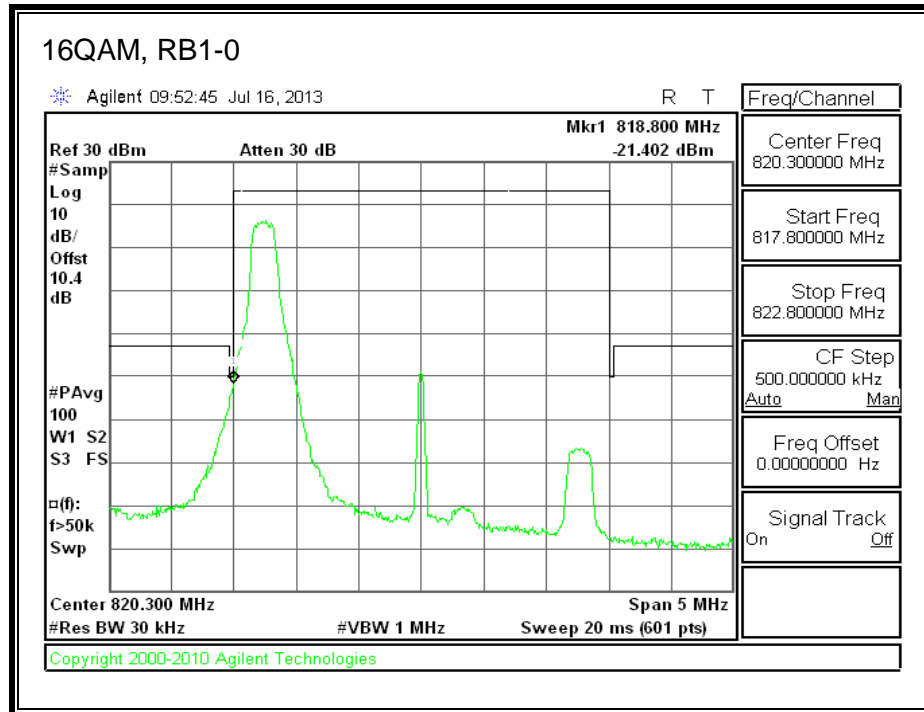


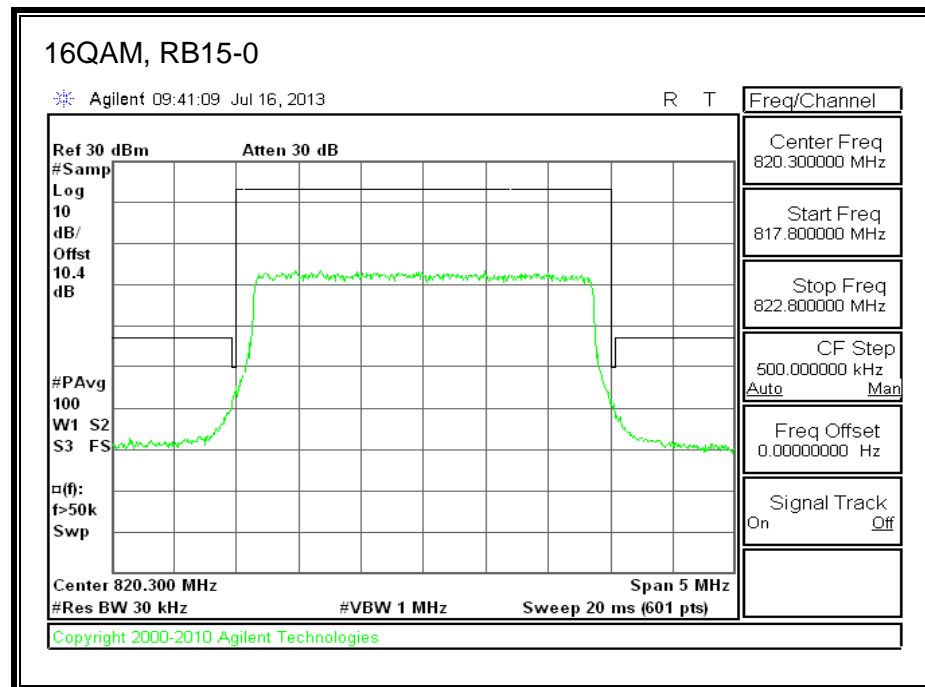
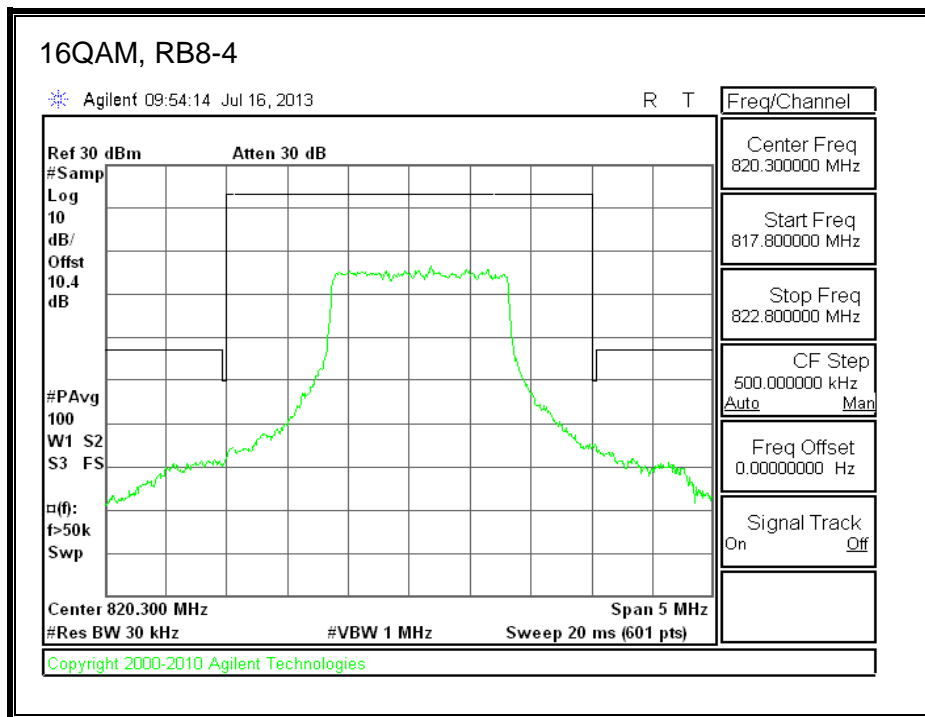
8.2.7. LTE BAND 26 PART 90 EMISSION MASK

820.3MHz AT 3.0MHz BW

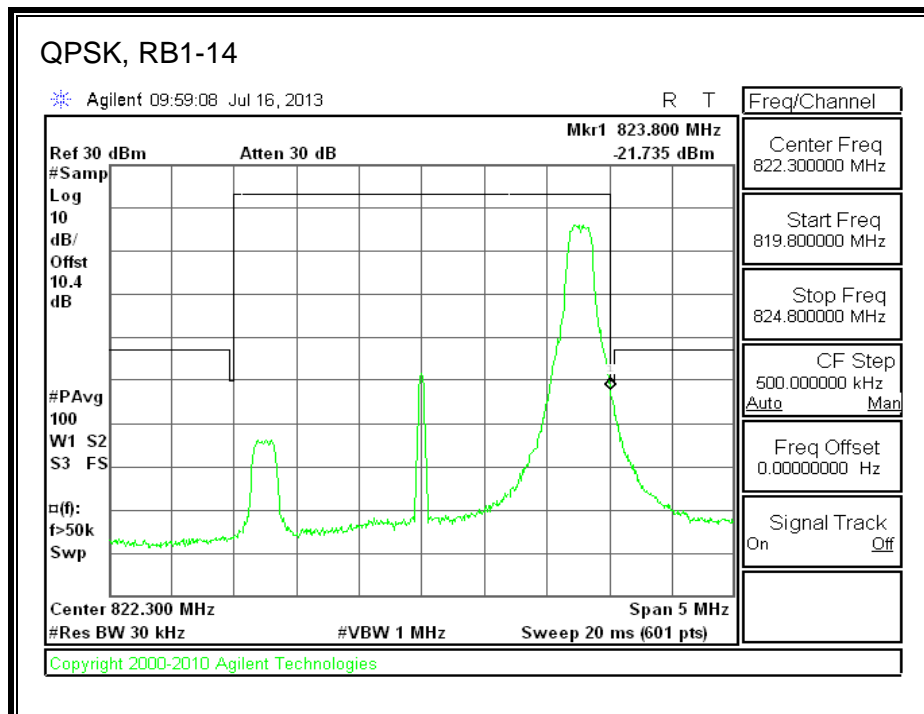
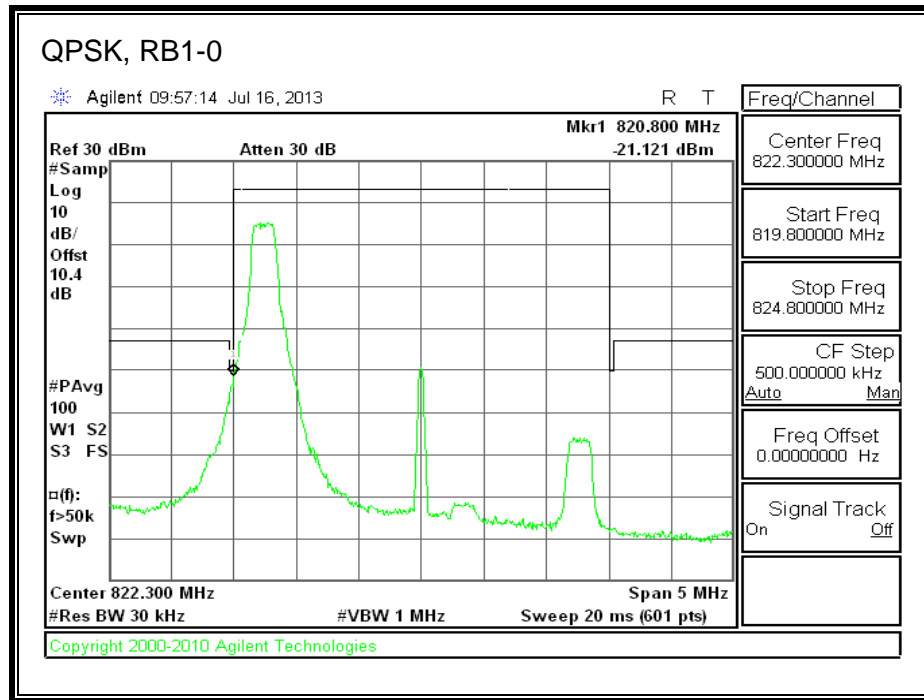


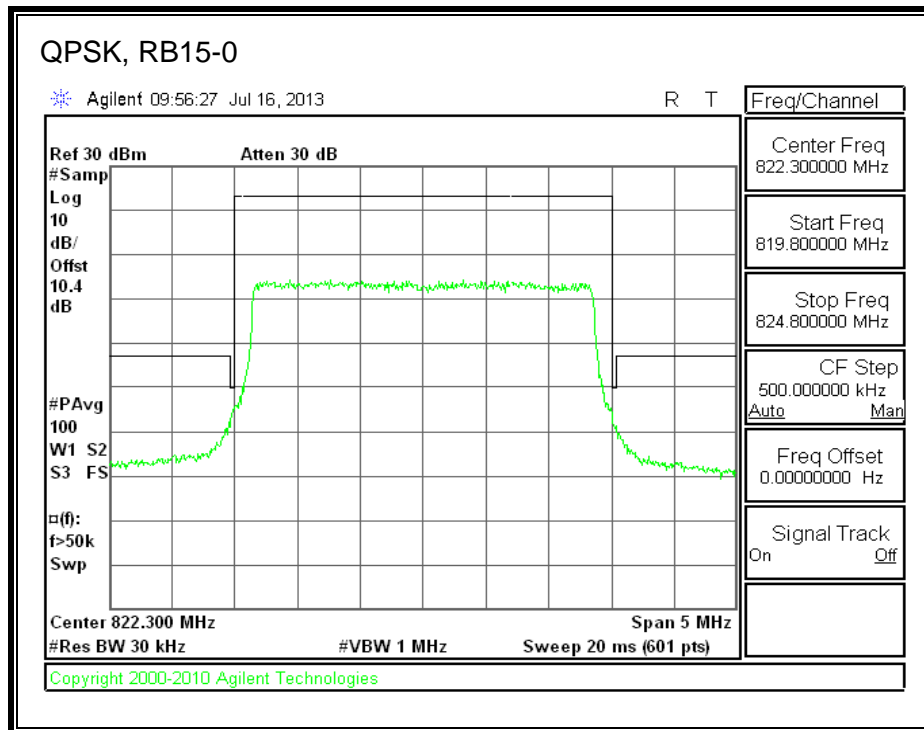
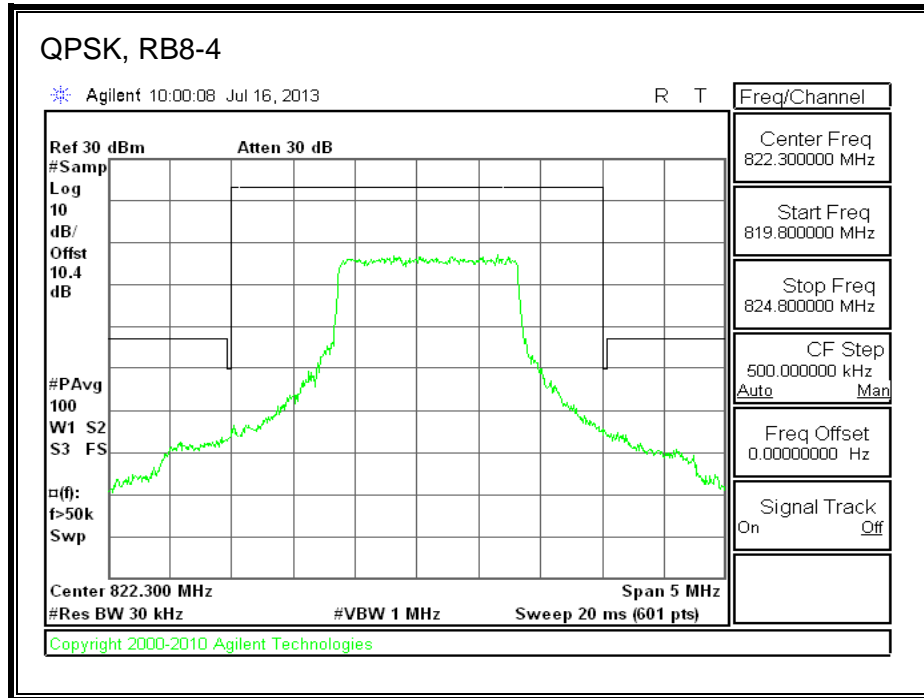


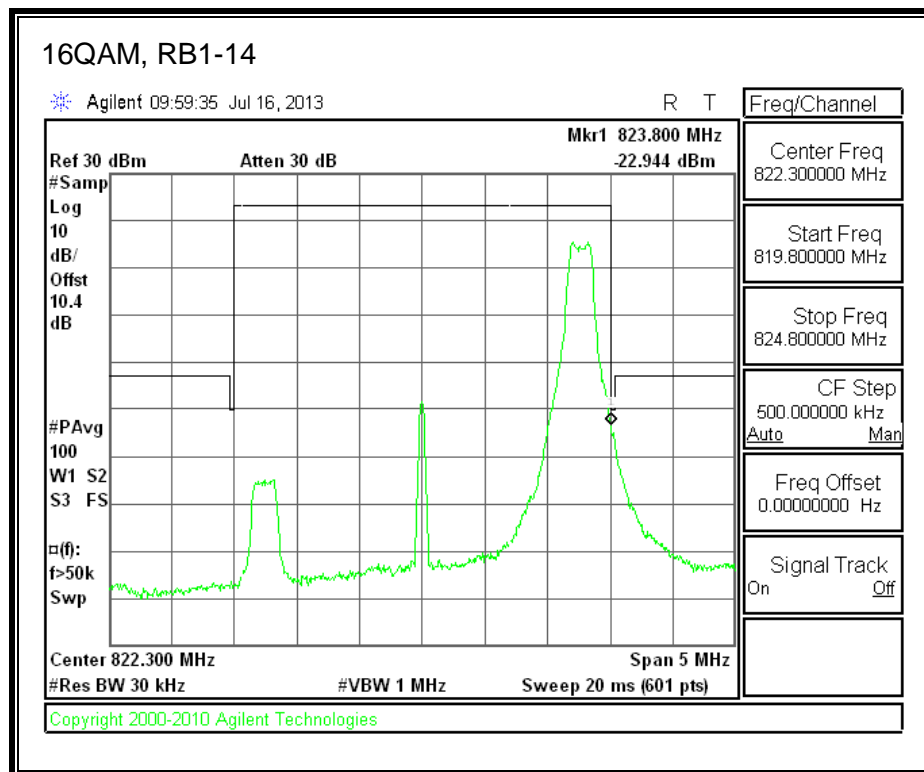
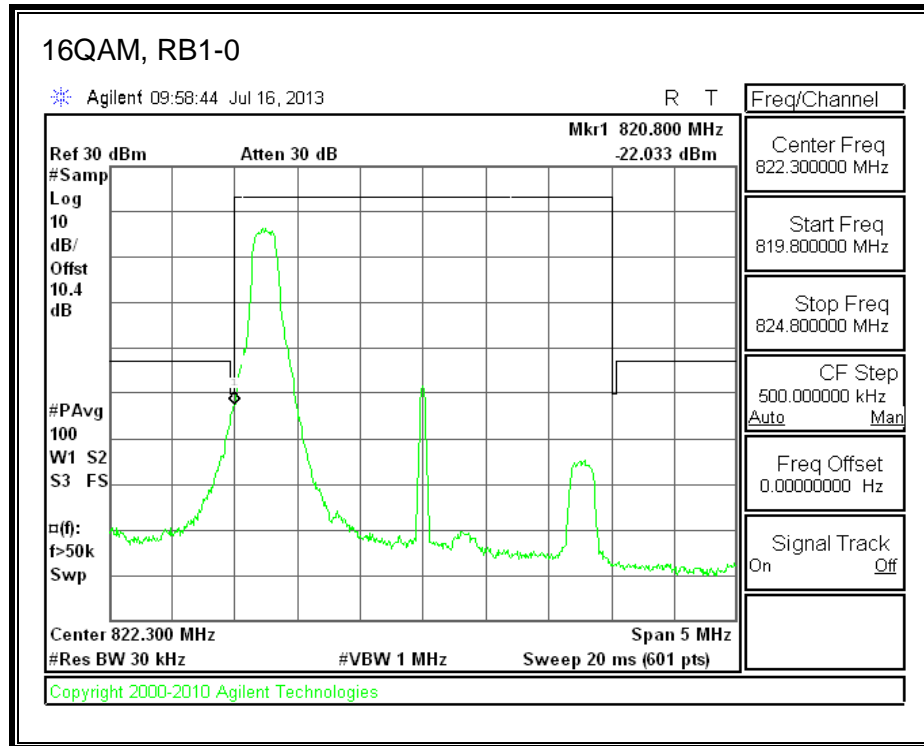


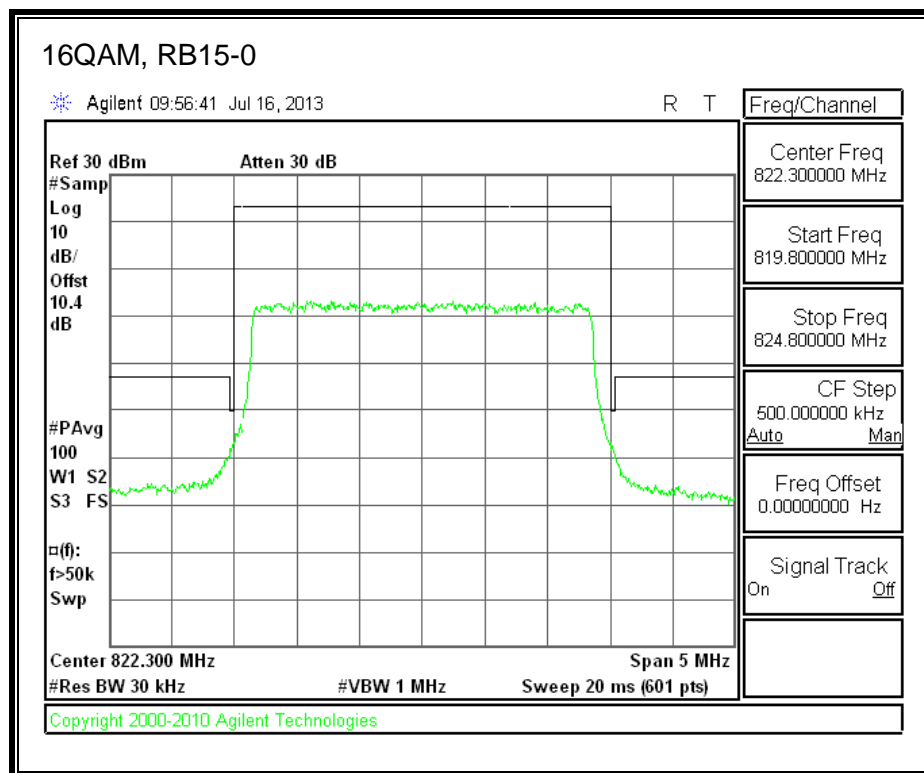
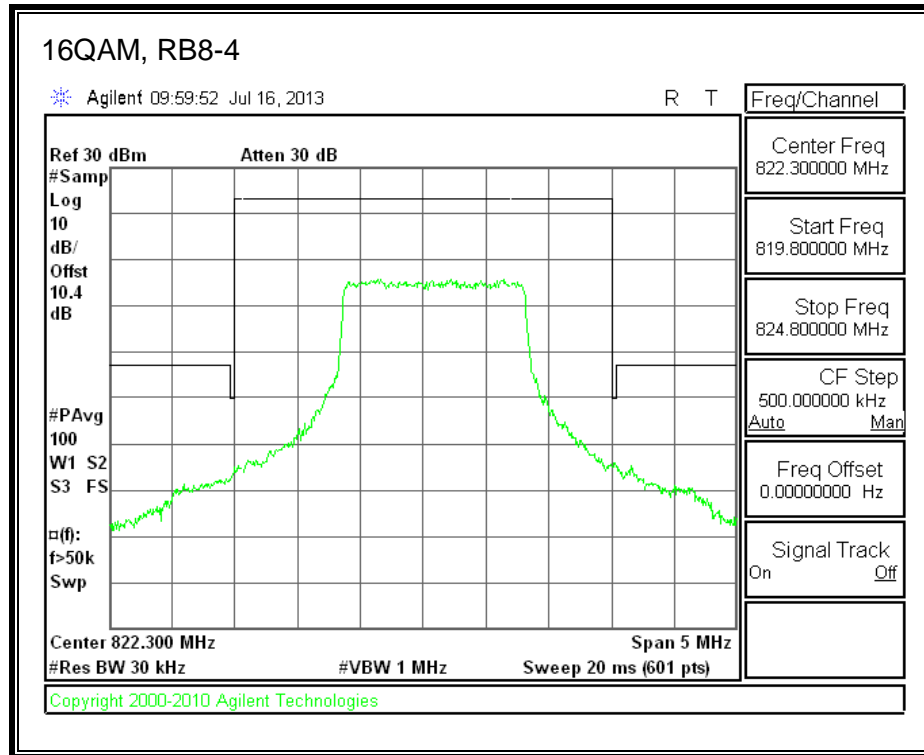


822.3MHz AT 3.0MHz BW

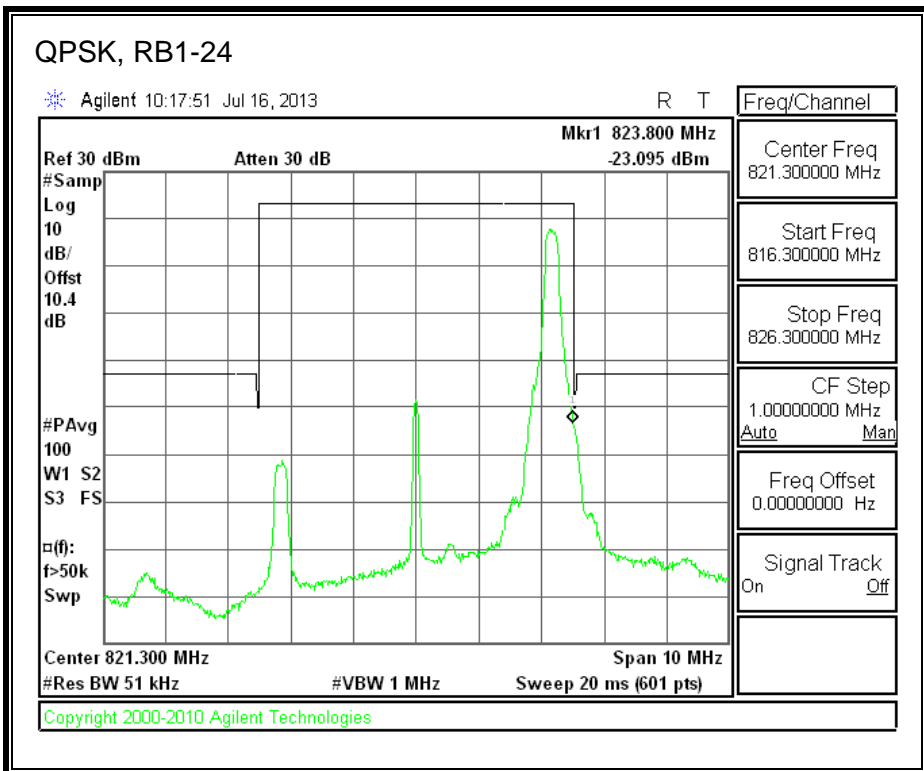
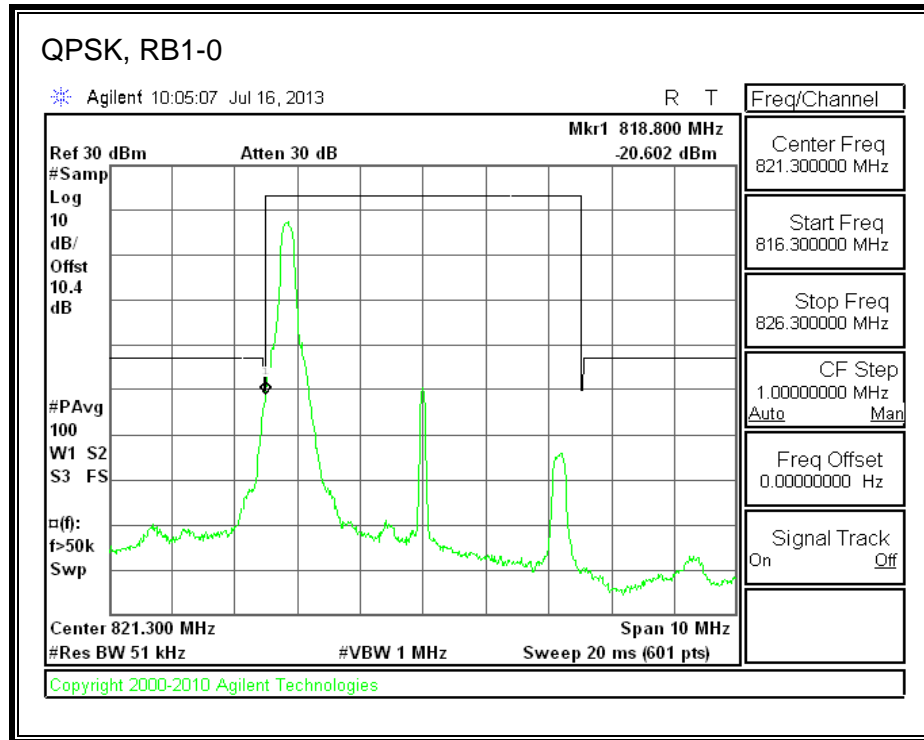


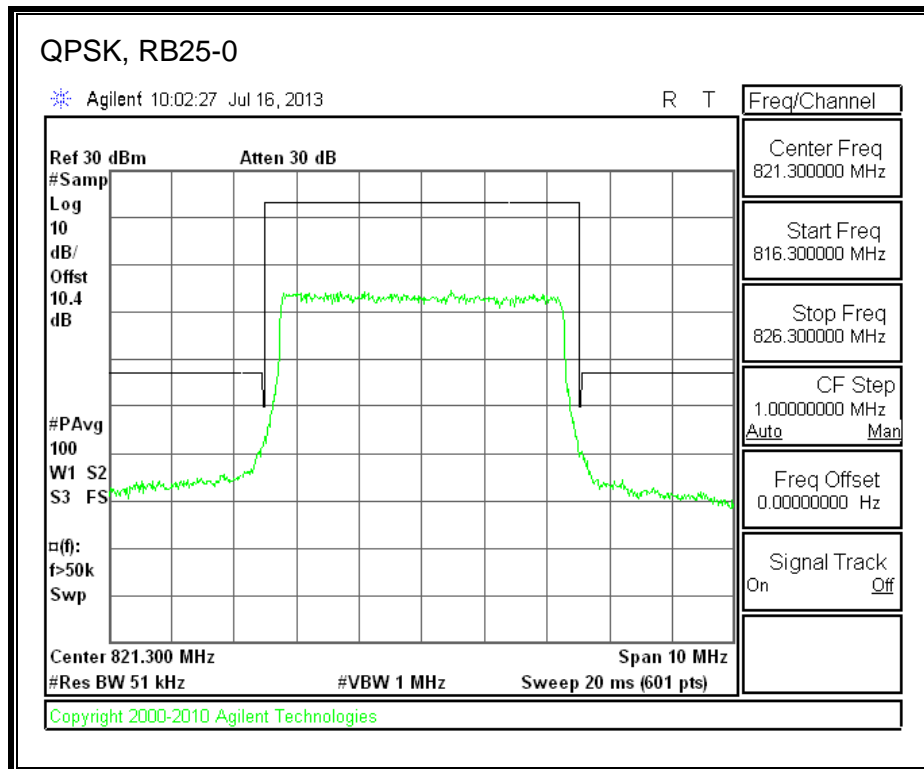
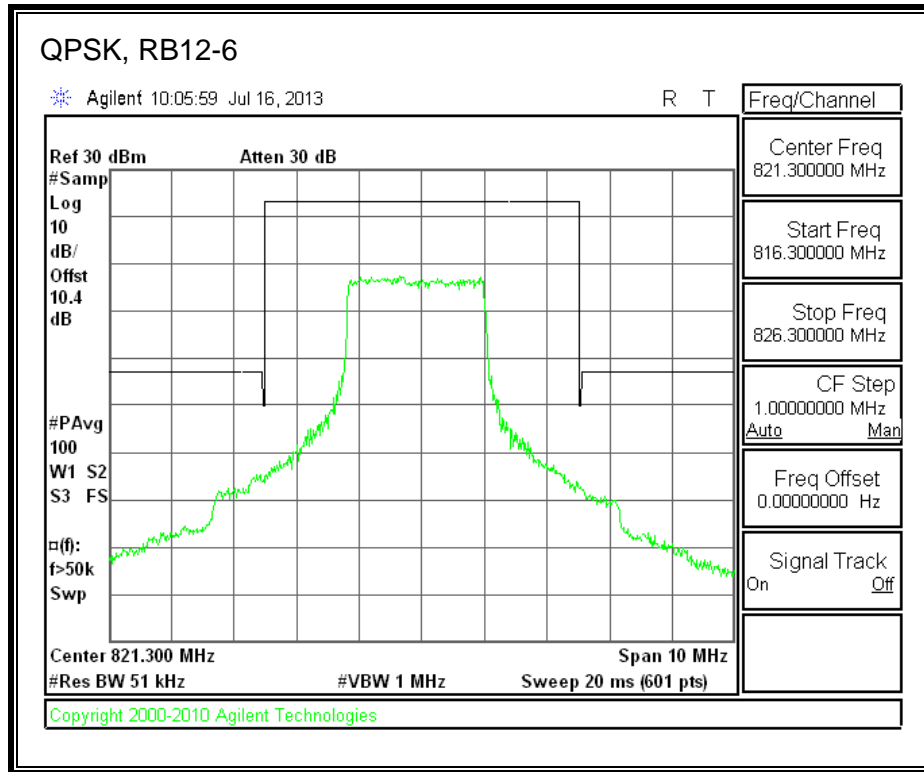


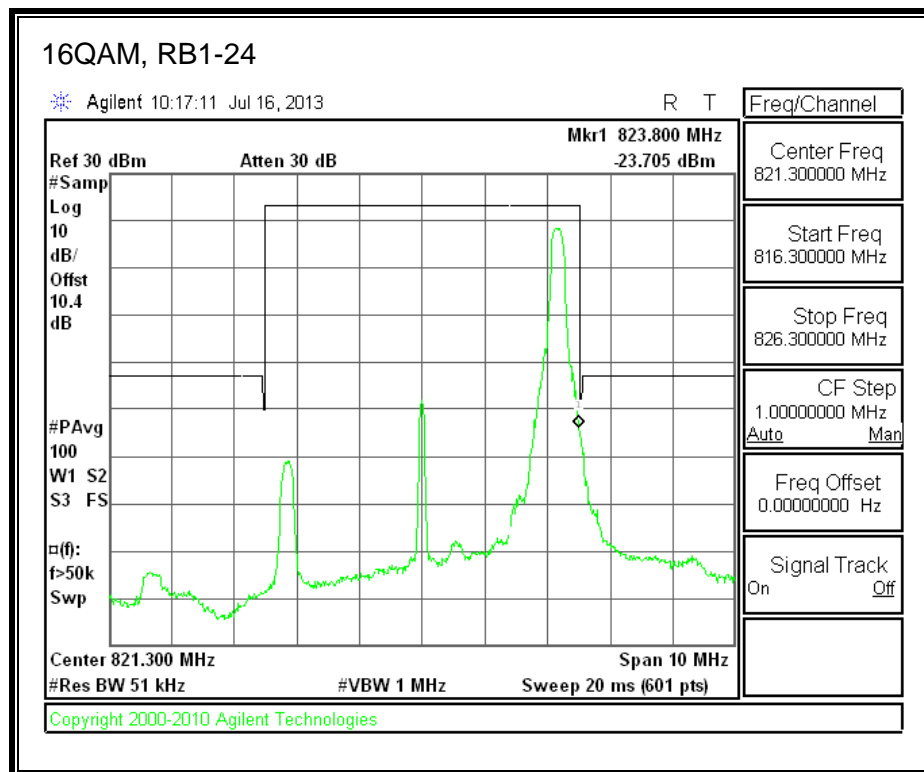
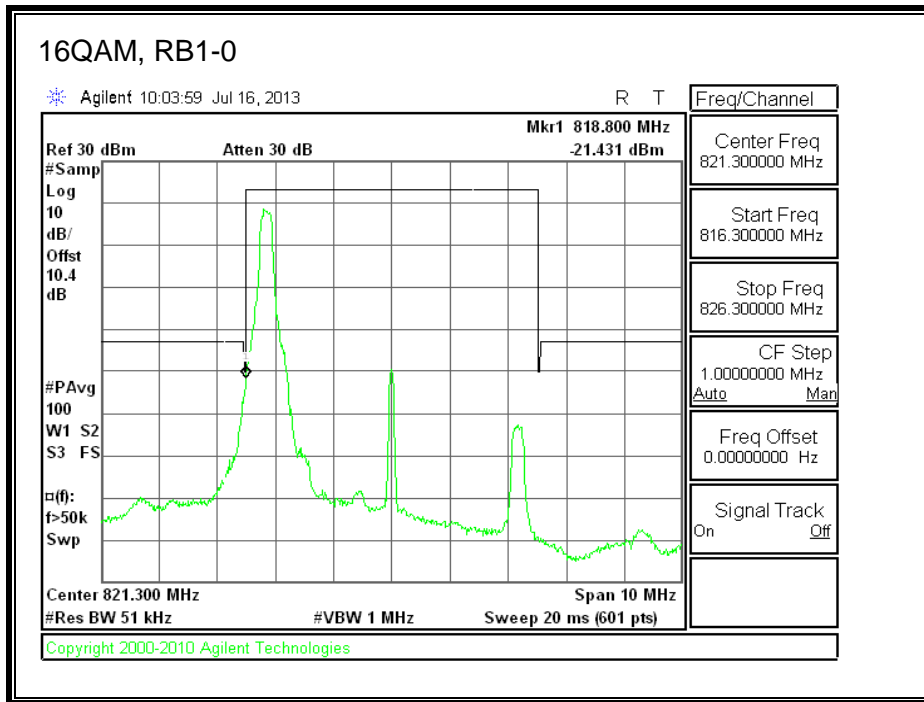


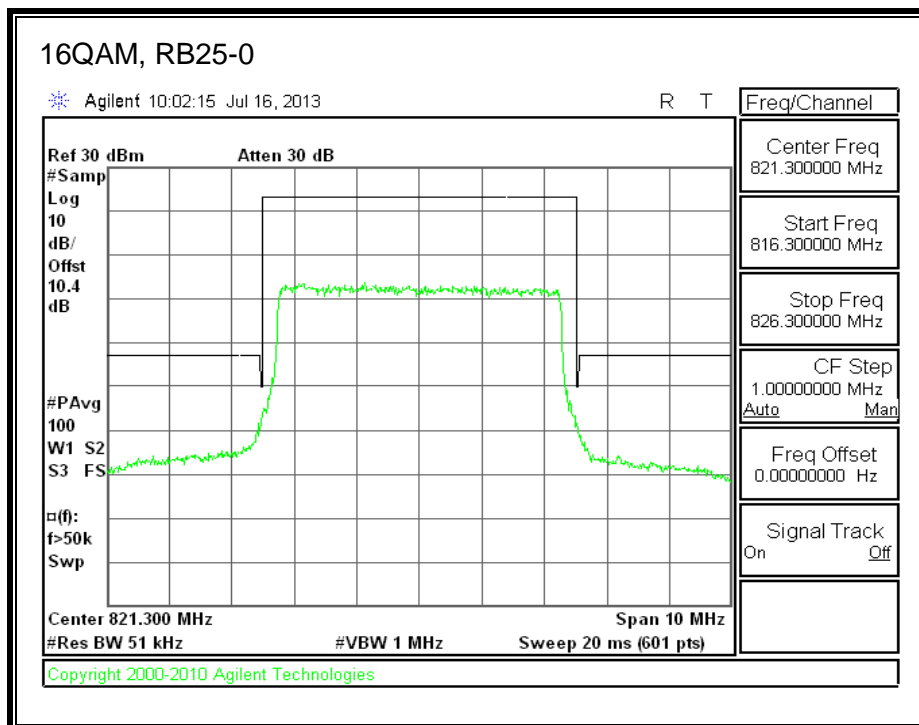
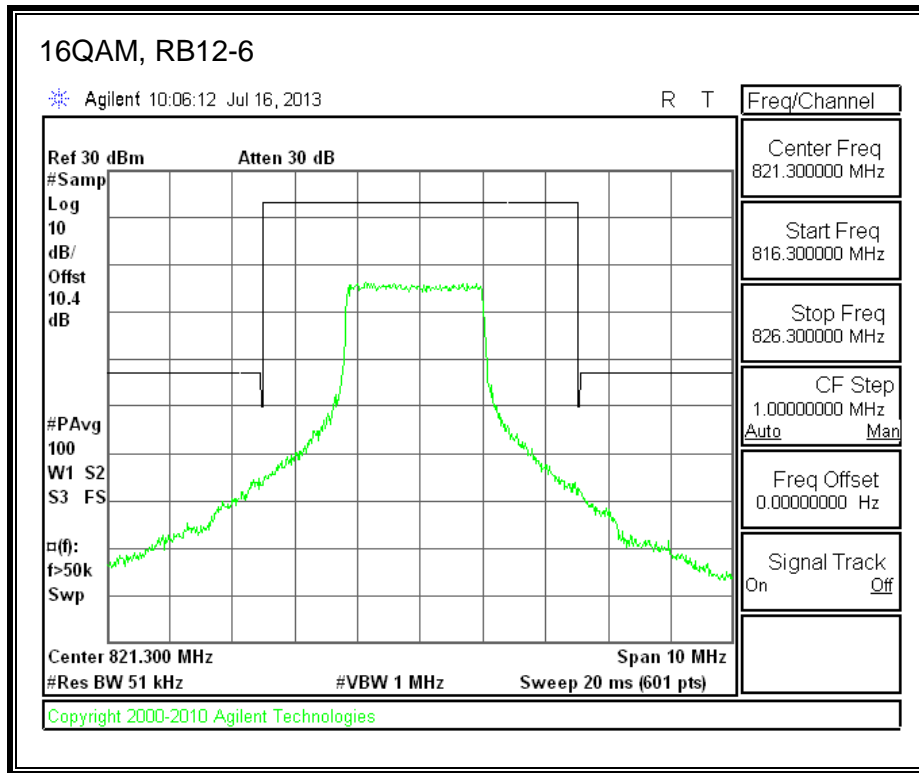


821.3MHz AT 5.0MHz BW









8.3. OUT OF BAND EMISSIONS

RULE PART(S)

FCC: §2.1051, §22.901, §22.917, §24.238 and §27.53
IC: RSS-132, 4.5; RSS-133, 6.5 and RSS-139, 6.5

LIMITS

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P)$ dB.

TEST PROCEDURE

The RF output of the transmitter was connected to a spectrum analyzer through a calibrated coaxial cable. Sufficient scans were taken to show the out-of-band Emissions, if any, up to 10th harmonic. Multiple sweeps were recorded in maximum hold mode using a peak detector to ensure that the worst-case emissions were caught.

For each out of band emissions measurement:

- Set display line at -13 dBm
- Set RBW & VBW to 100 kHz for the measurement below 1 GHz, and 1 MHz for the measurement above 1 GHz.

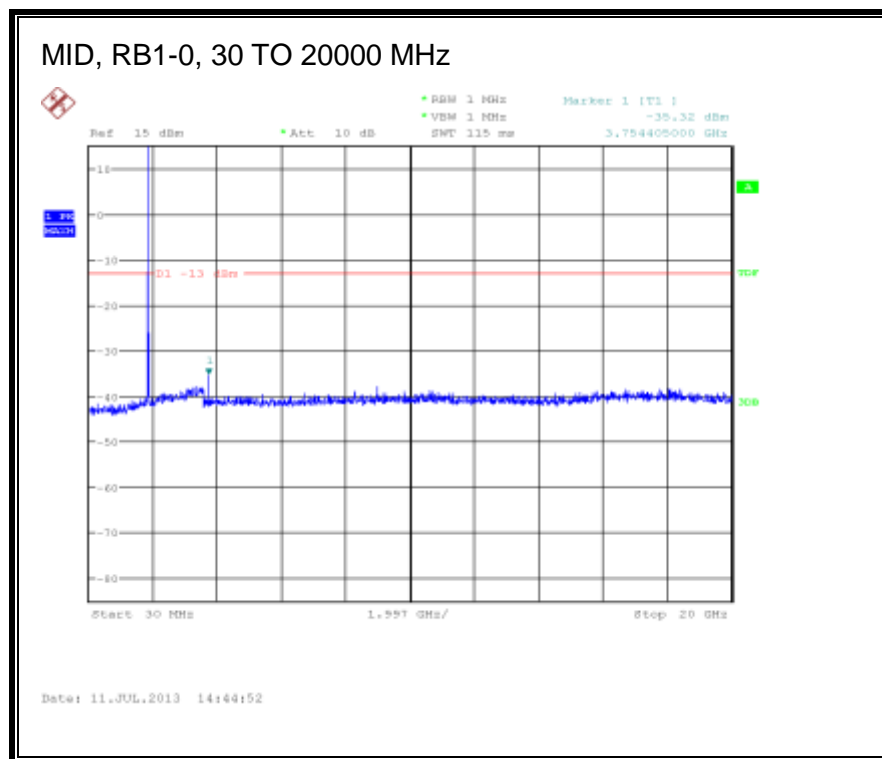
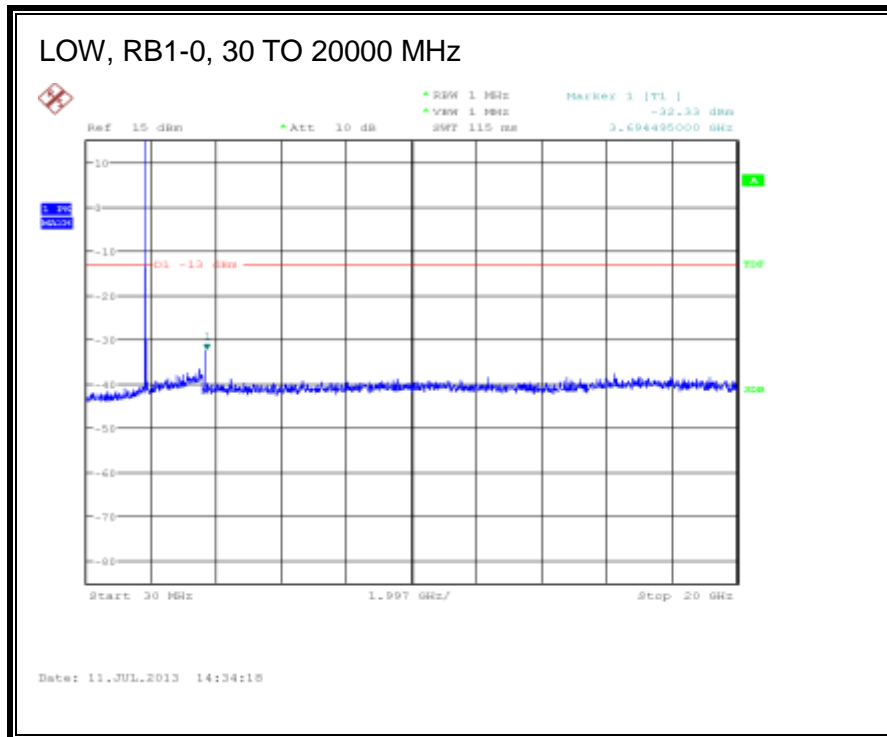
MODES TESTED

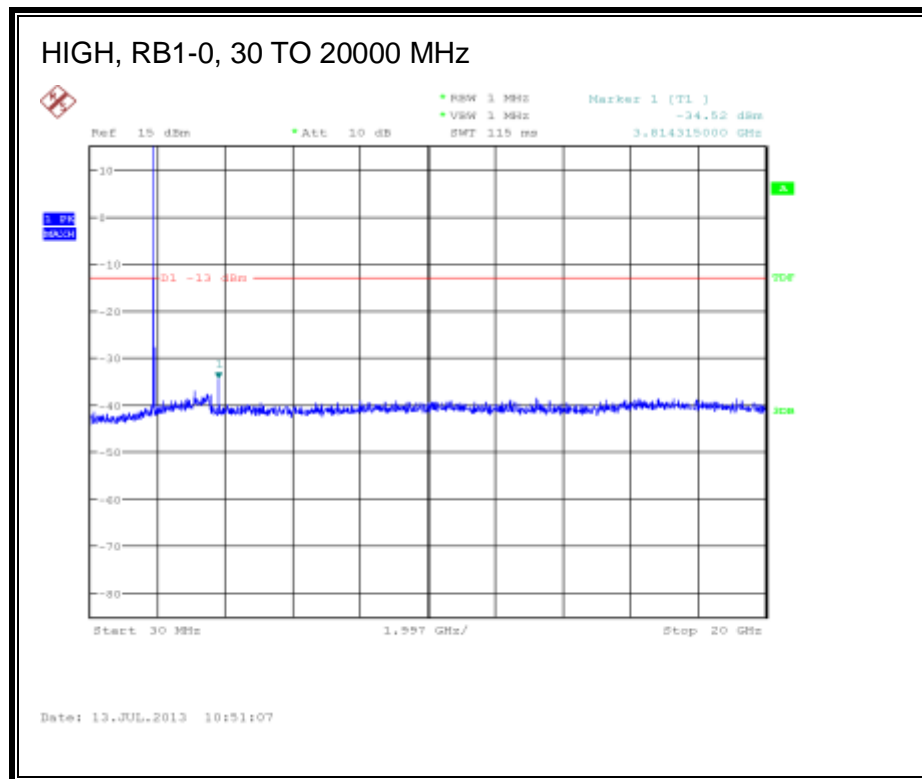
- Port A Band 2
- Port A Band 4
- Port A Band 5
- Port A Band 13
- Port A Band 17
- Port A Band 25
- Port A Band 26

RESULTS

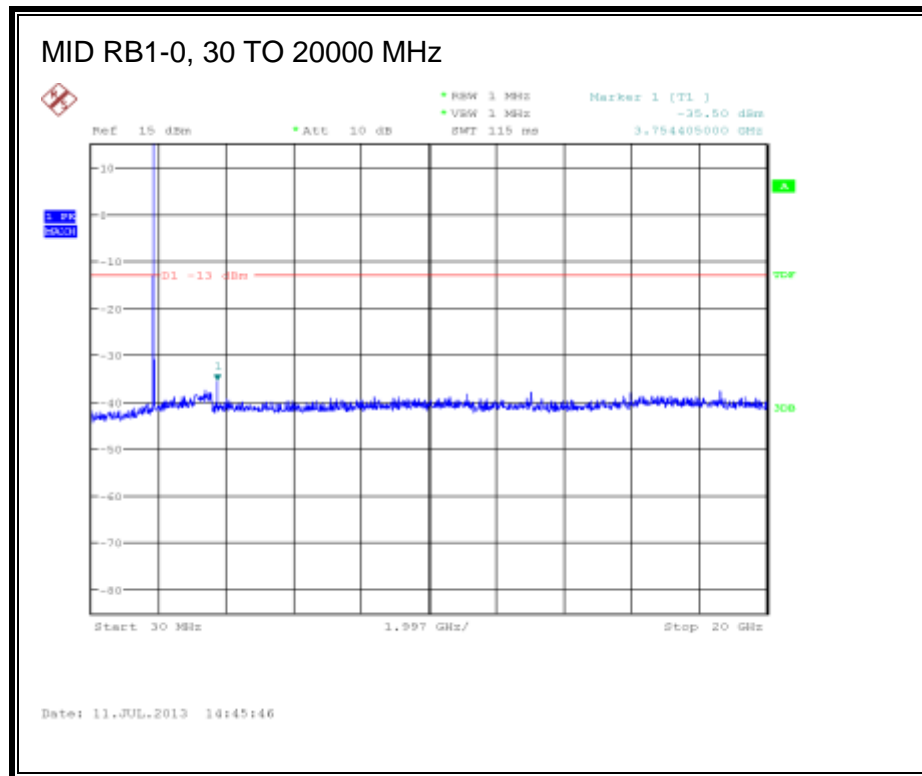
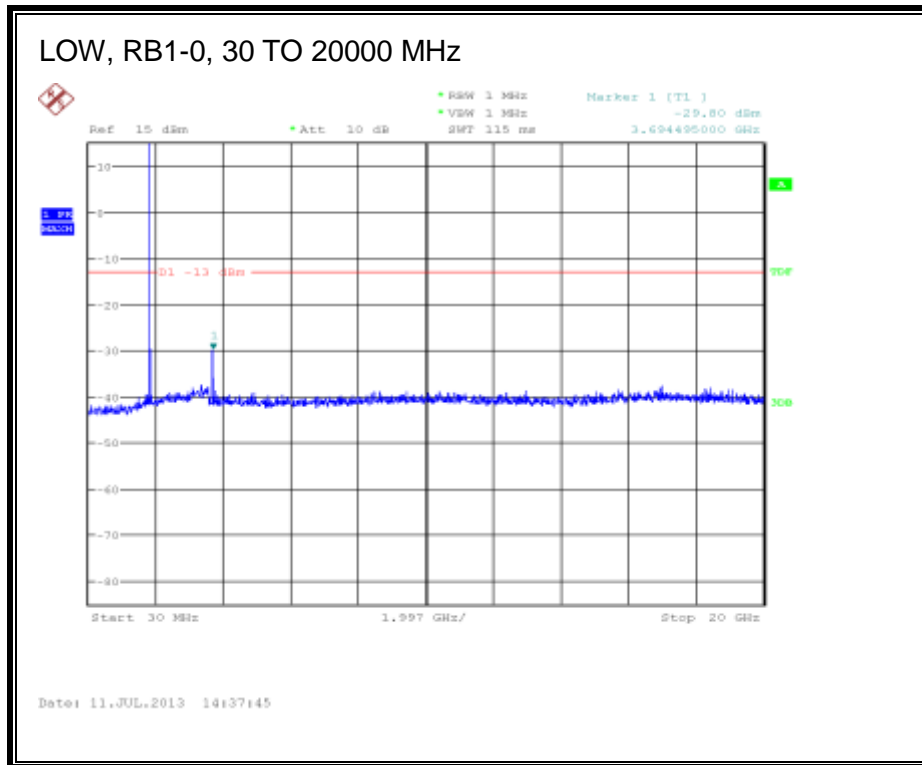
8.3.1. LTE BAND 2

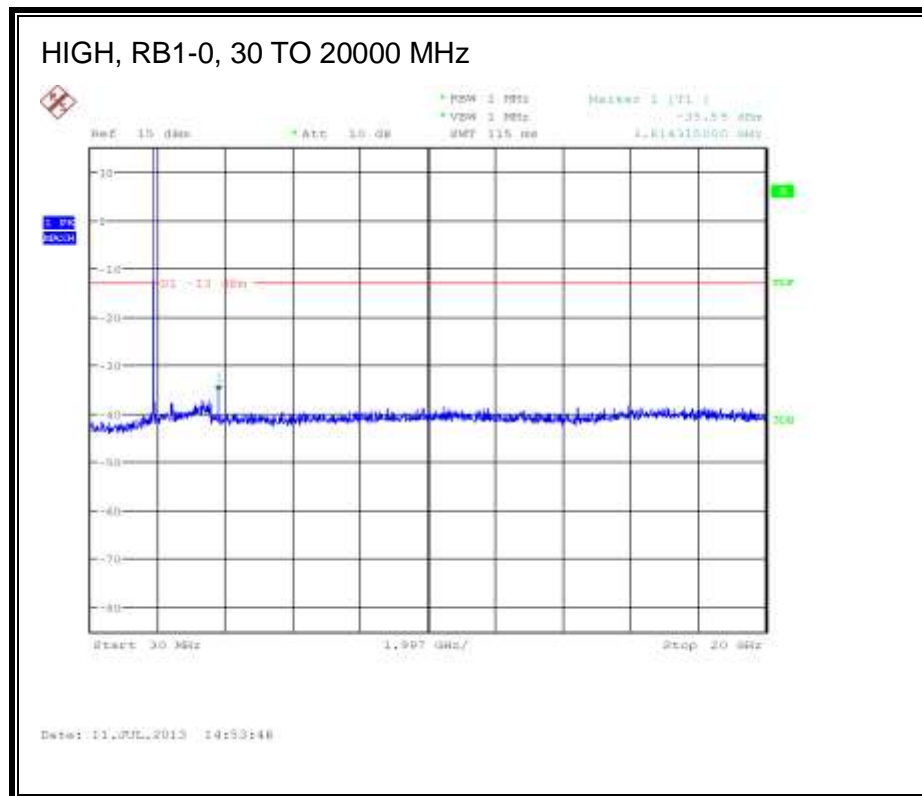
LTE QPSK, 1.4 MHz BAND WIDTH



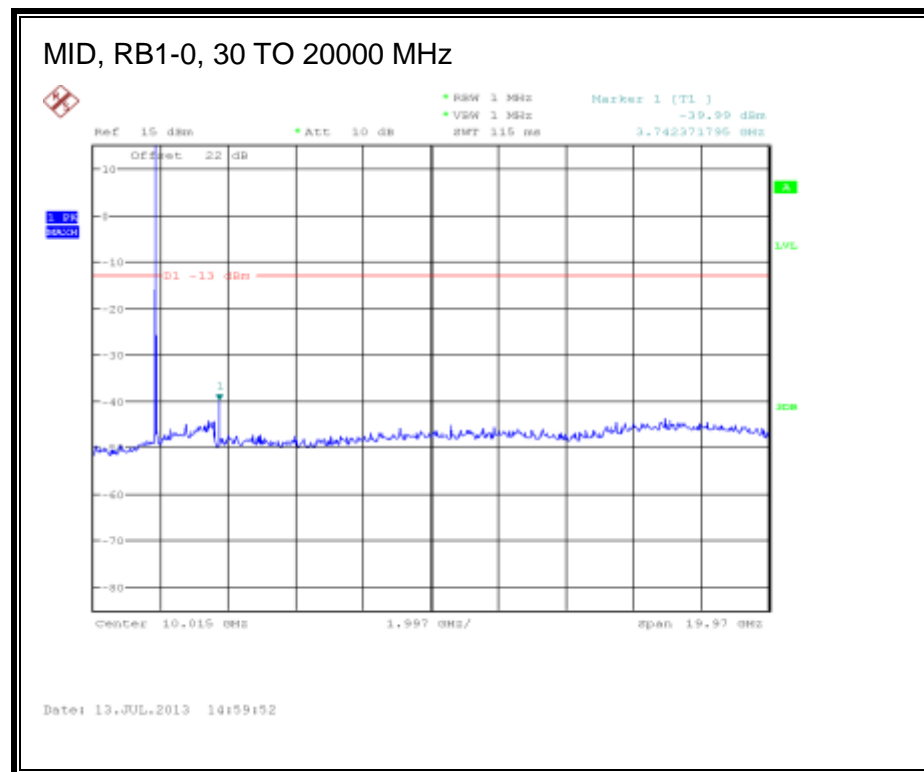
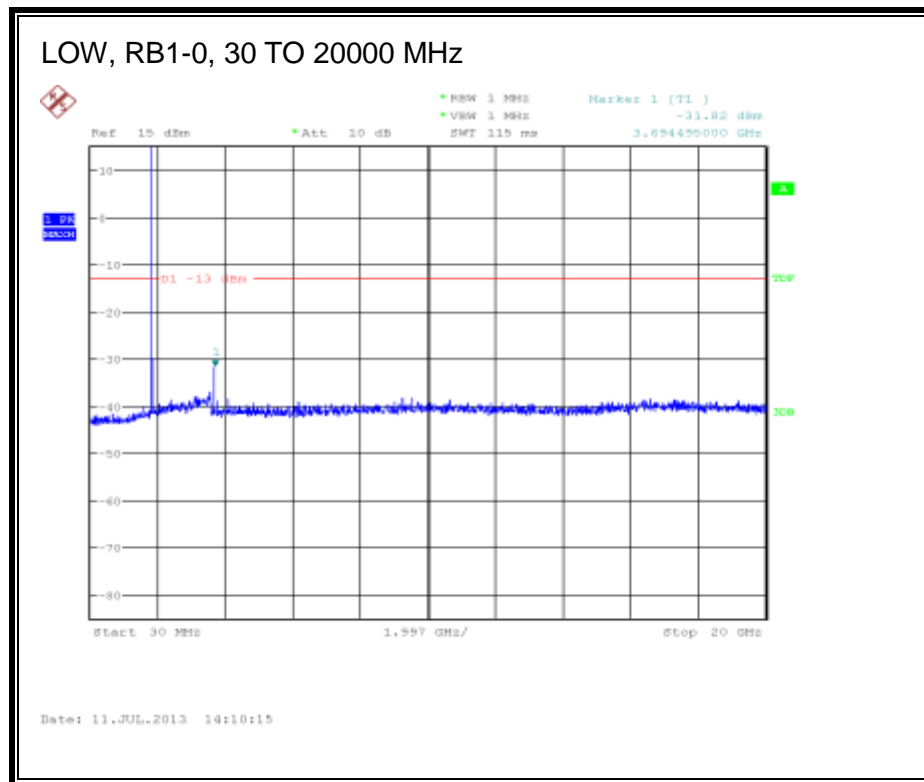


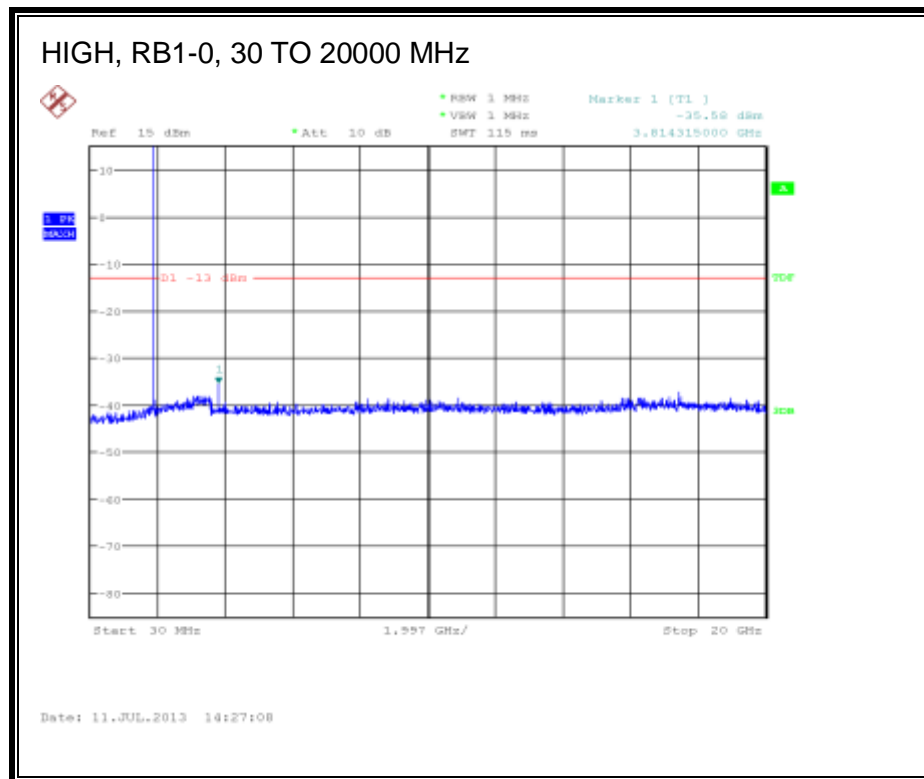
LTE 16QAM



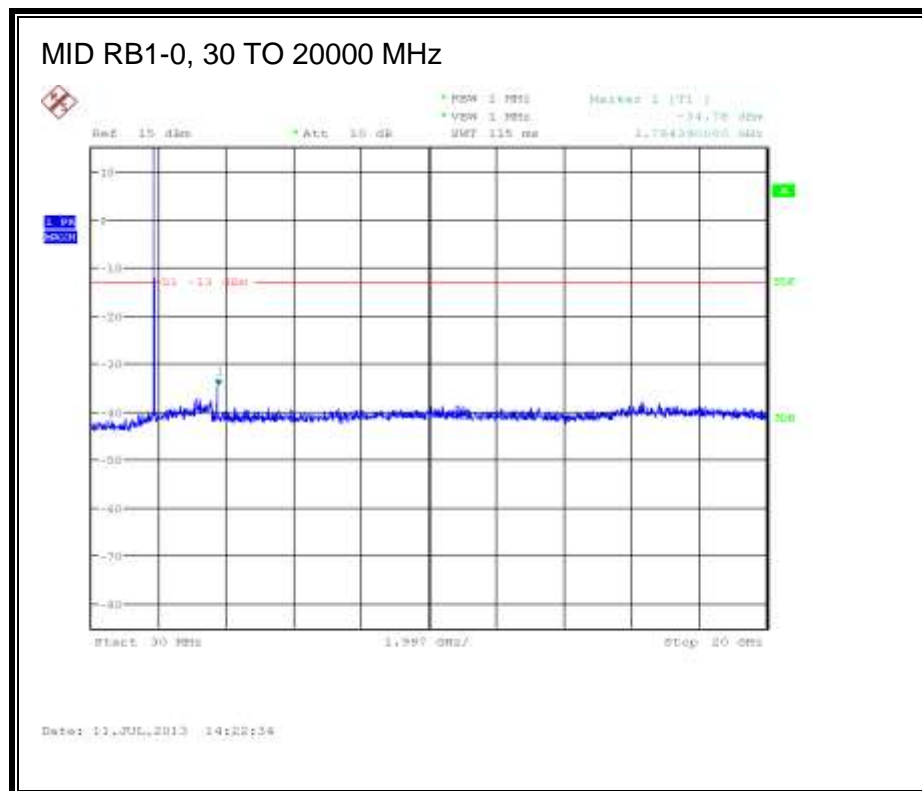
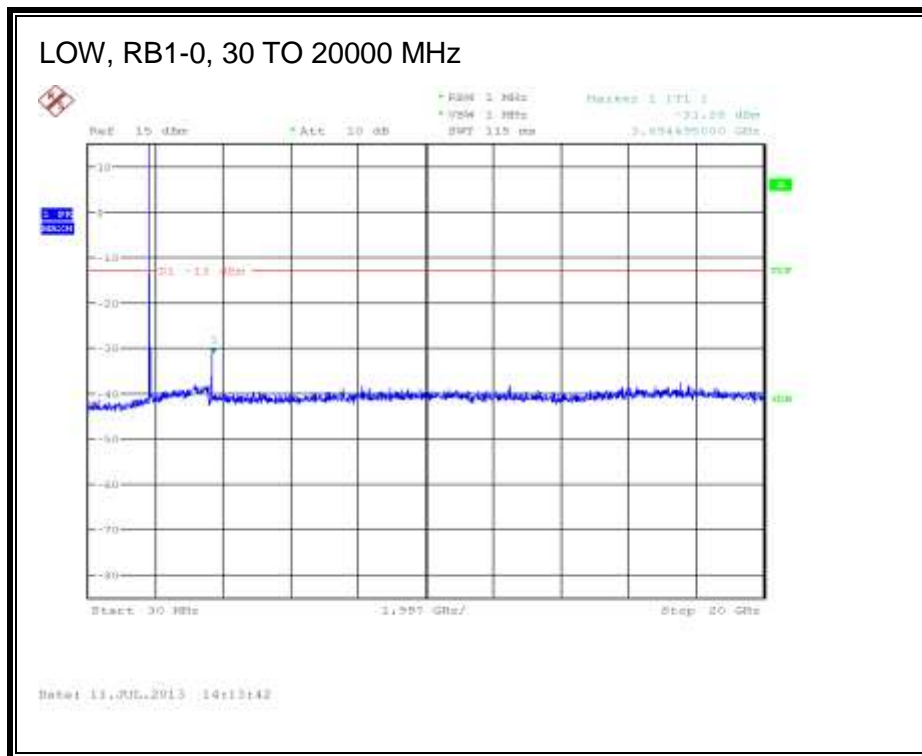


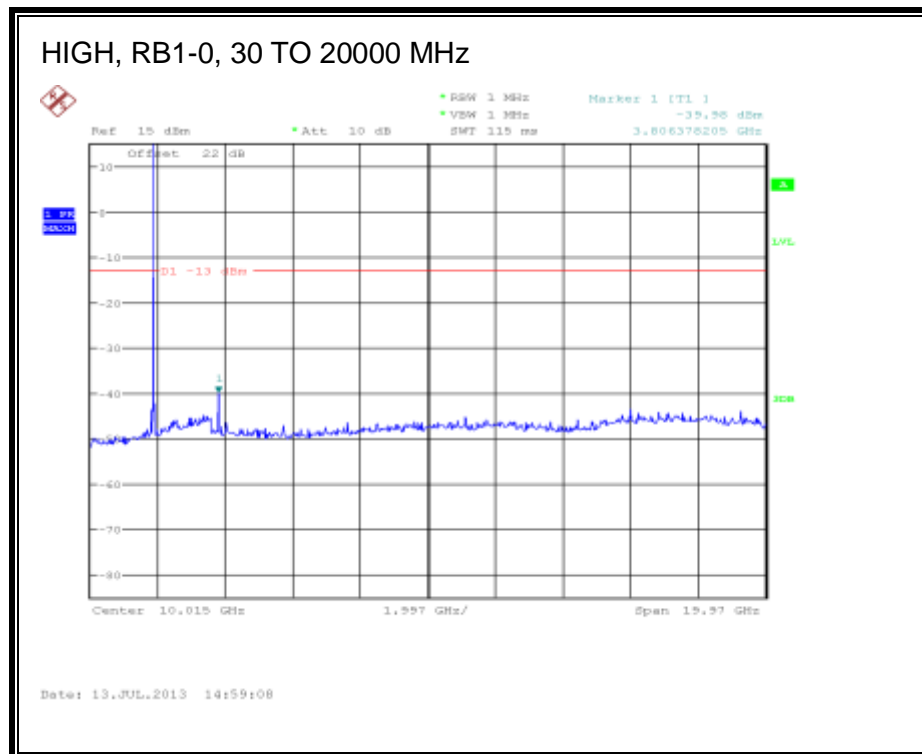
LTE QPSK, 3.0 MHz BAND WIDTH





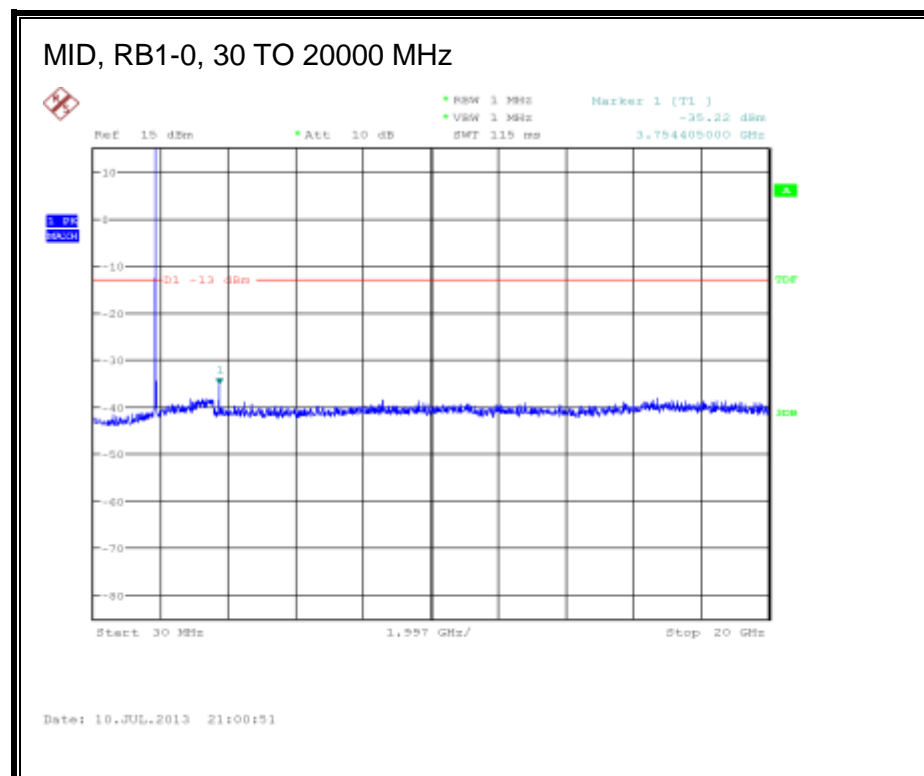
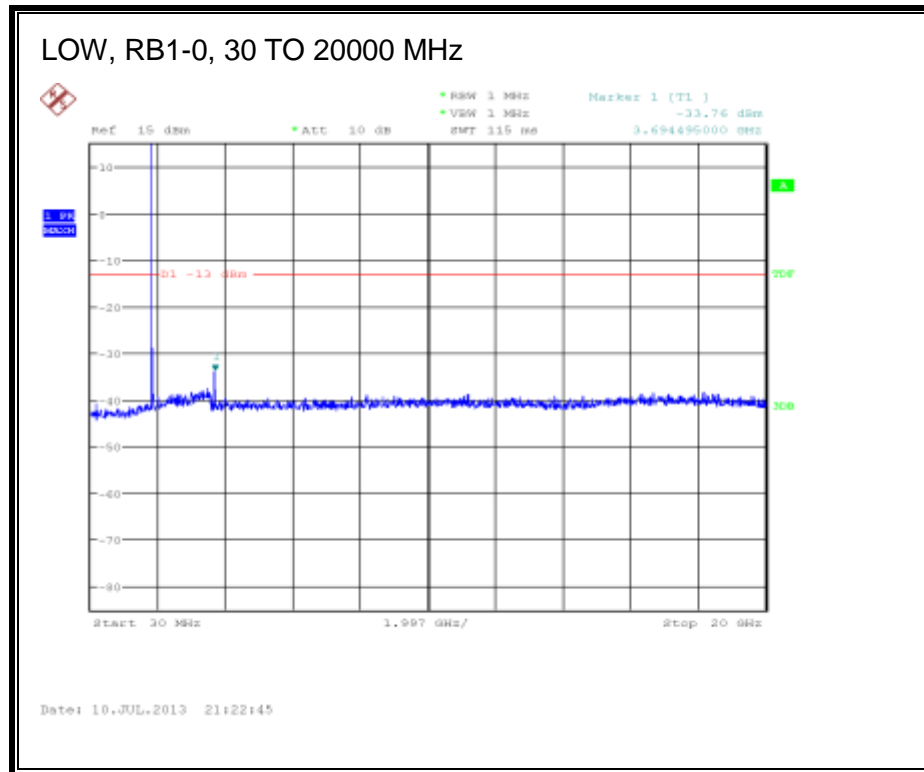
LTE 16QAM

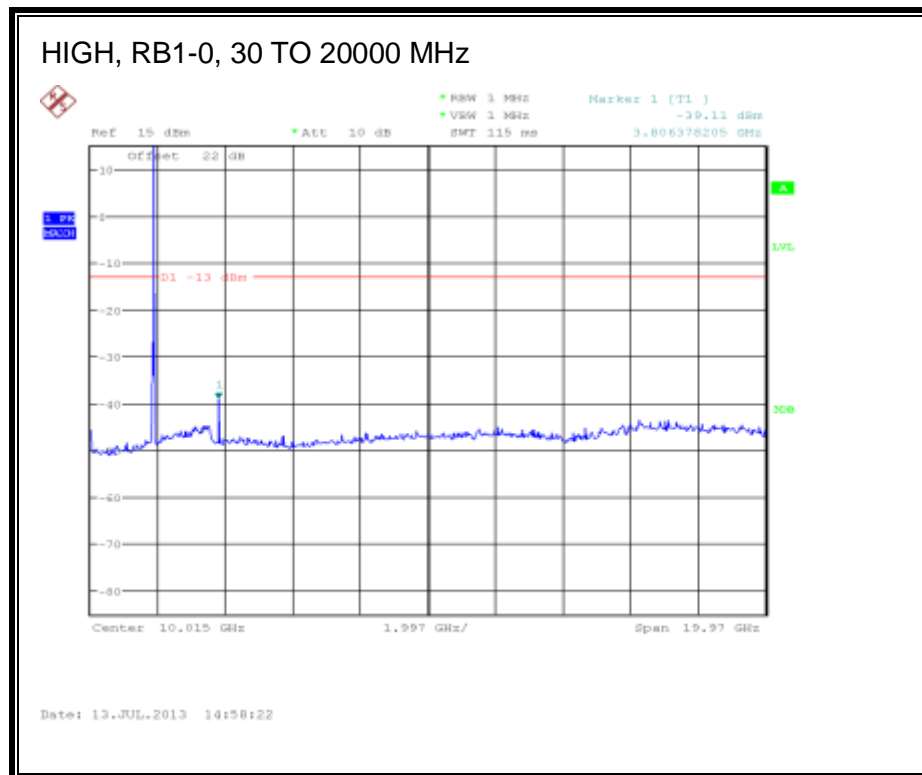




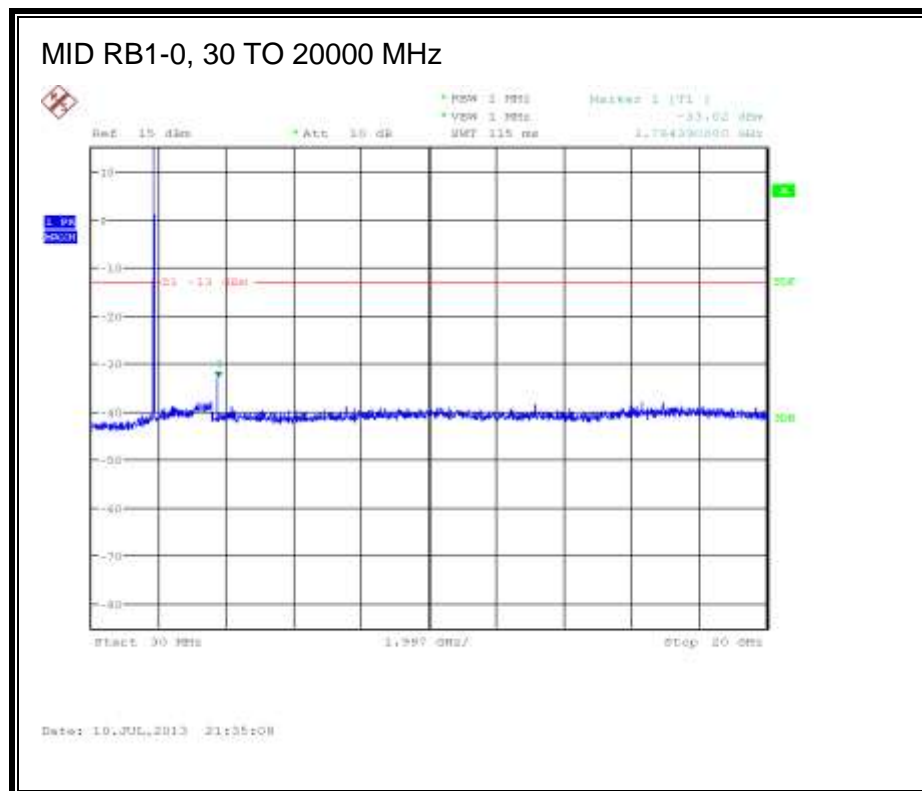
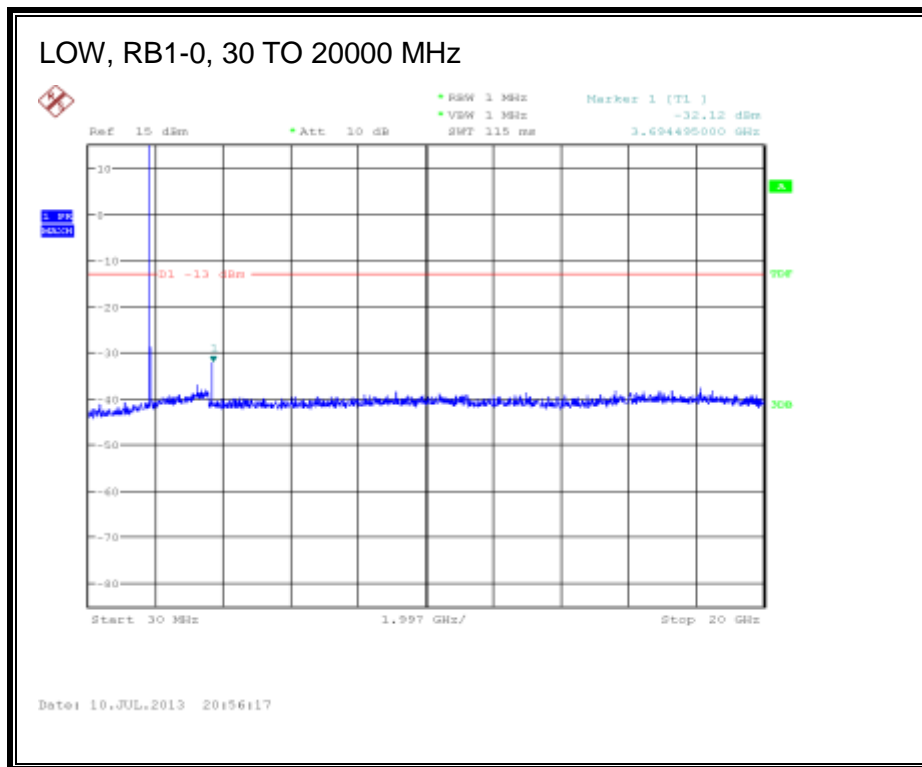
Band 2 (5.0 MHz BAND WIDTH)

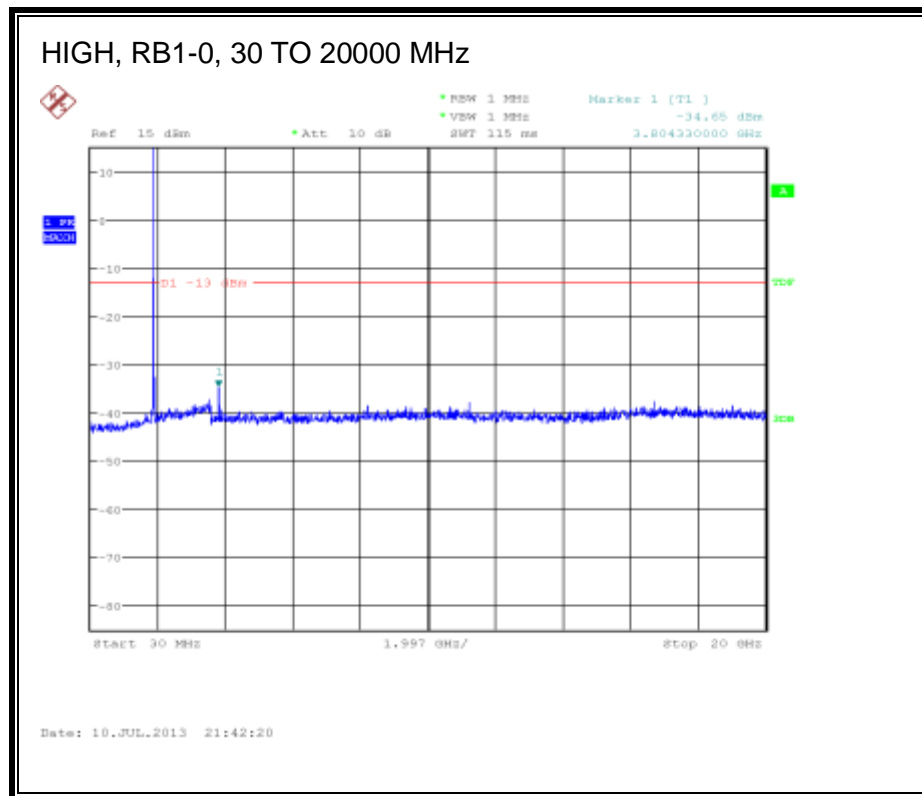
LTE QPSK





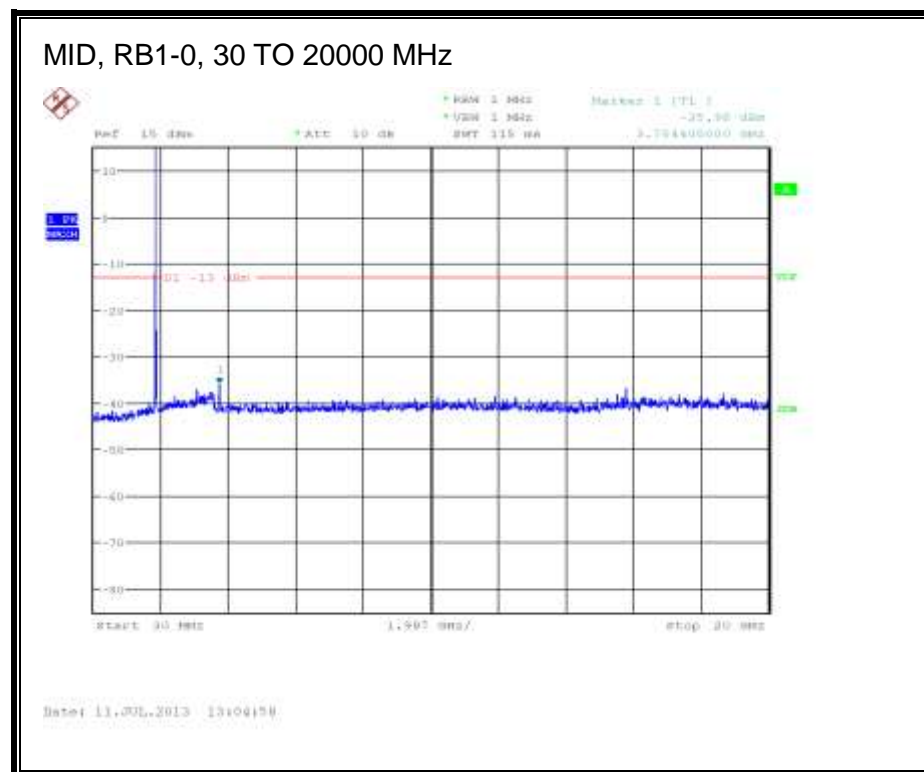
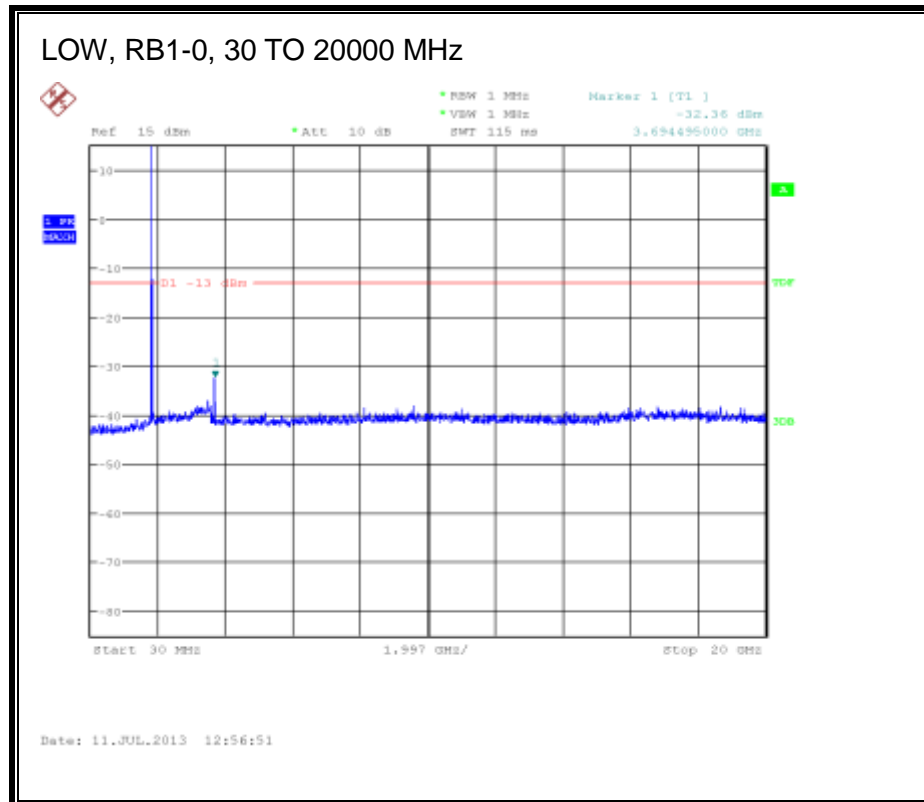
LTE 16QAM

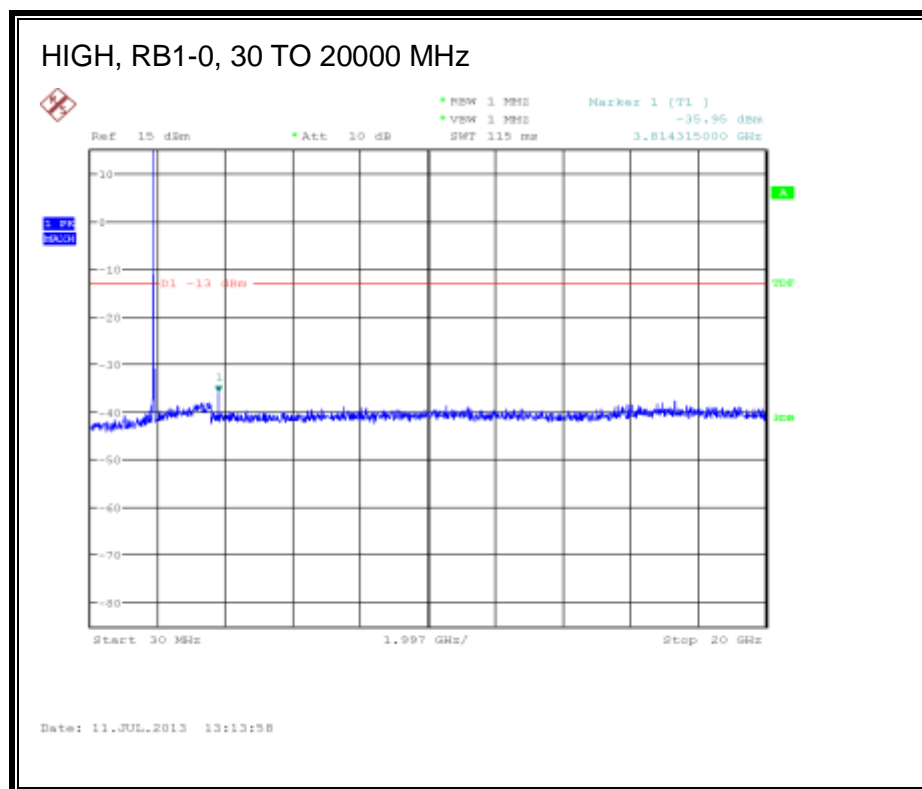




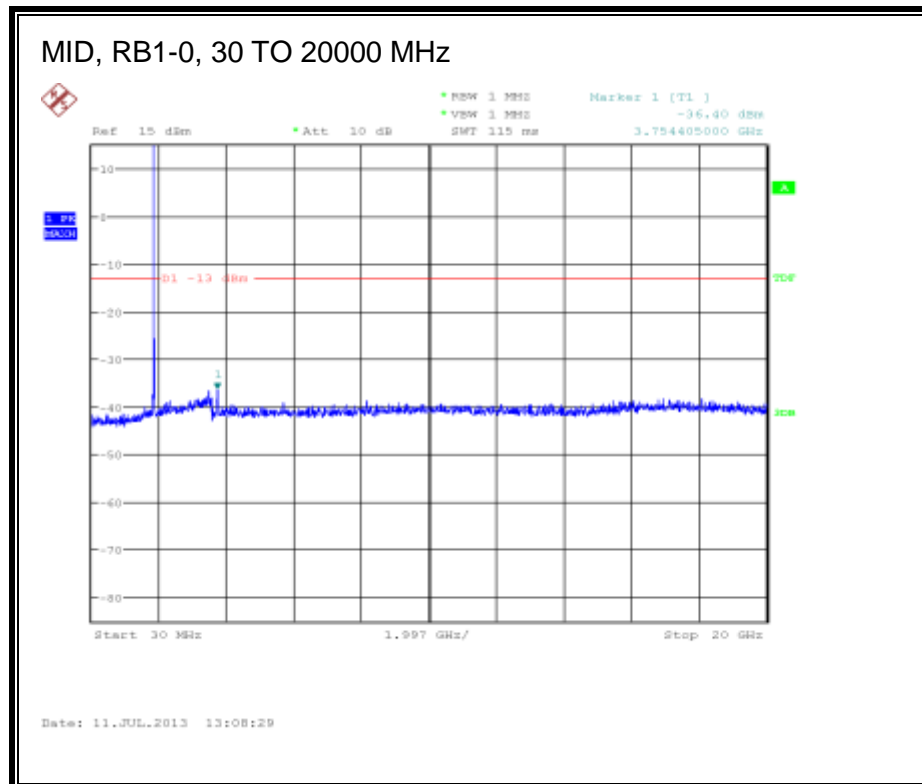
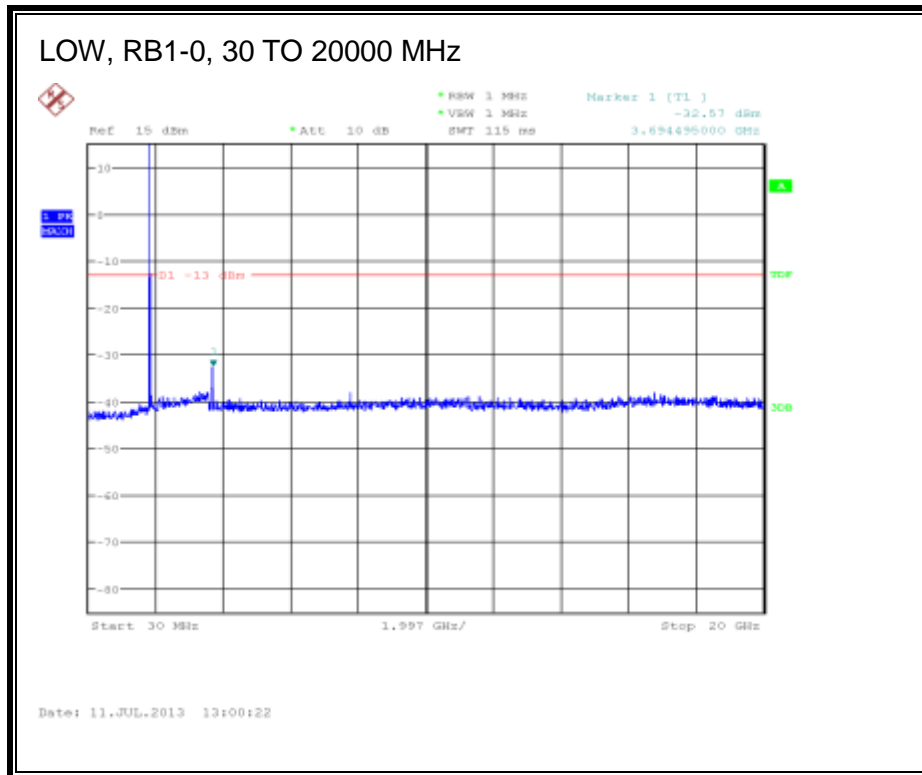
Band 2 (10.0 MHz BAND WIDTH)

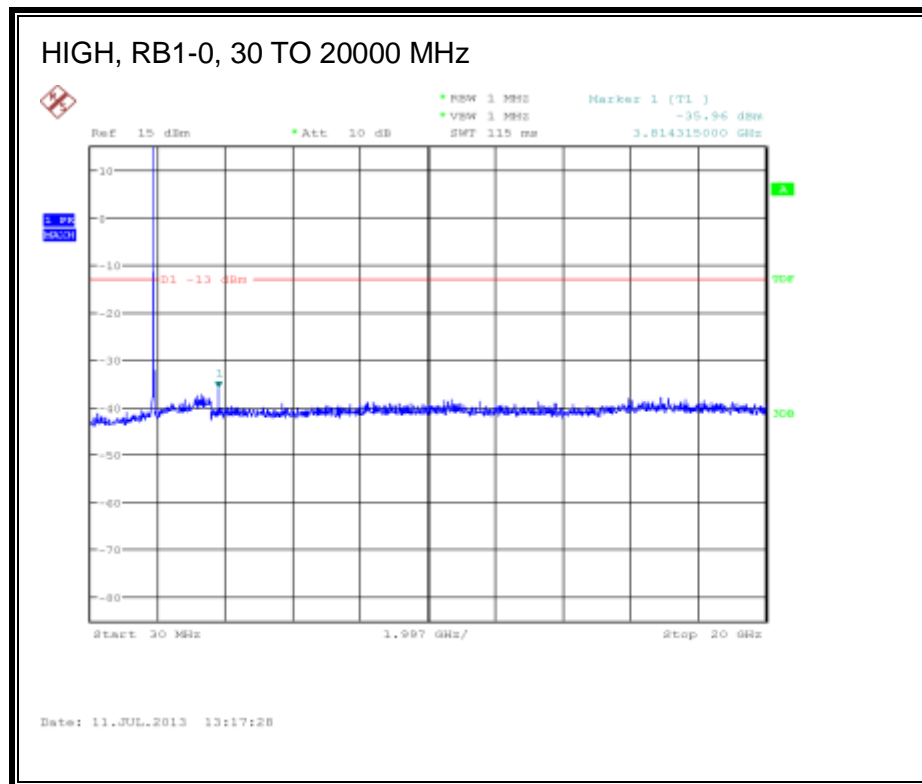
LTE QPSK





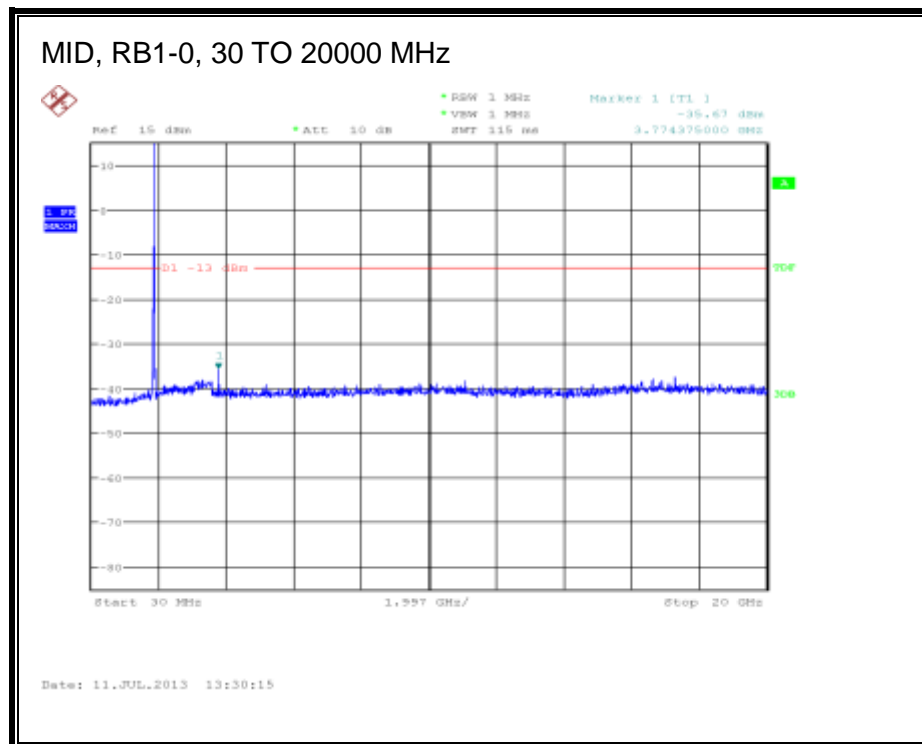
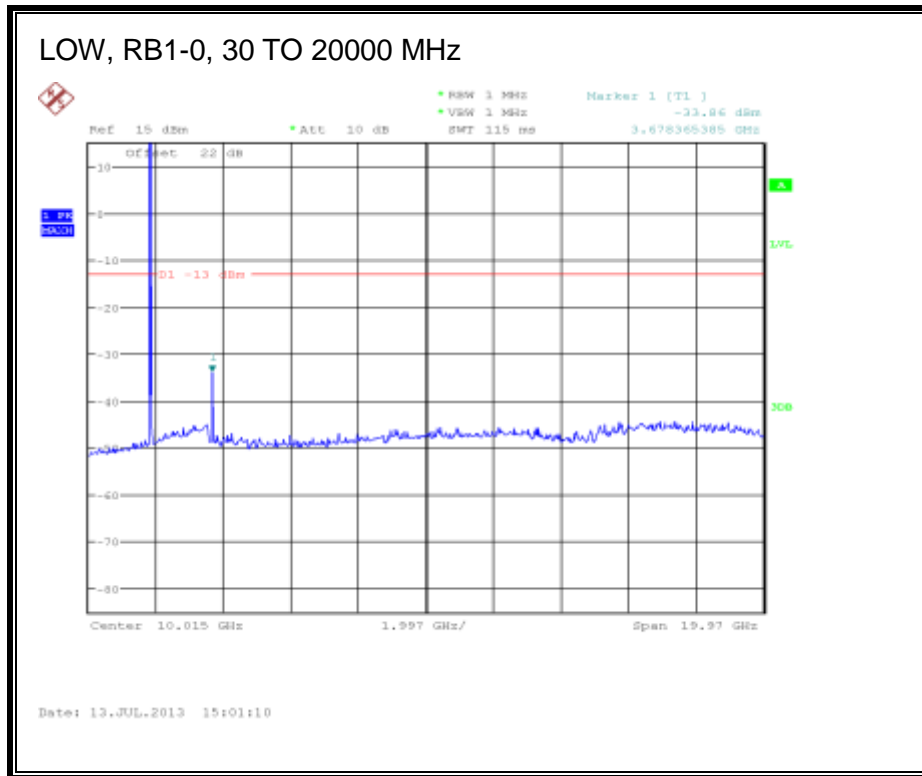
LTE 16QAM

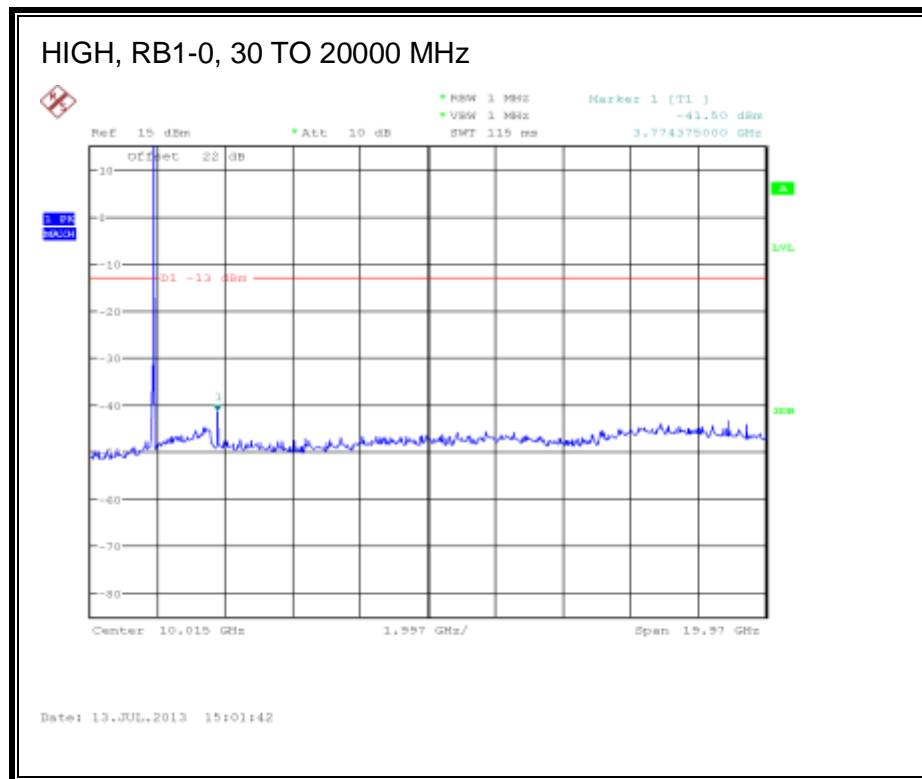




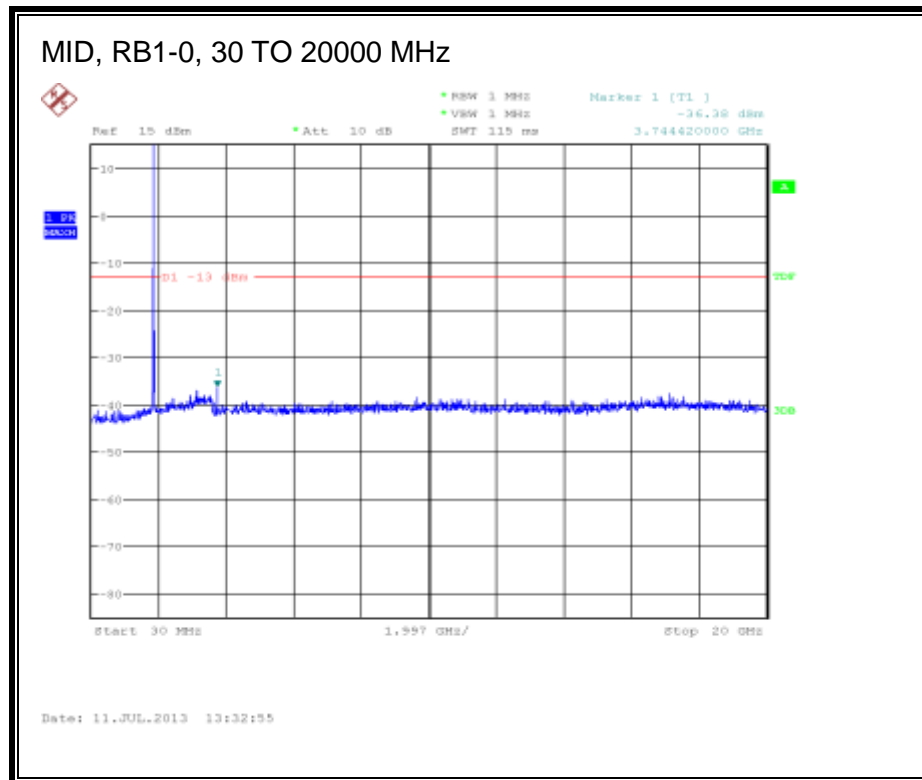
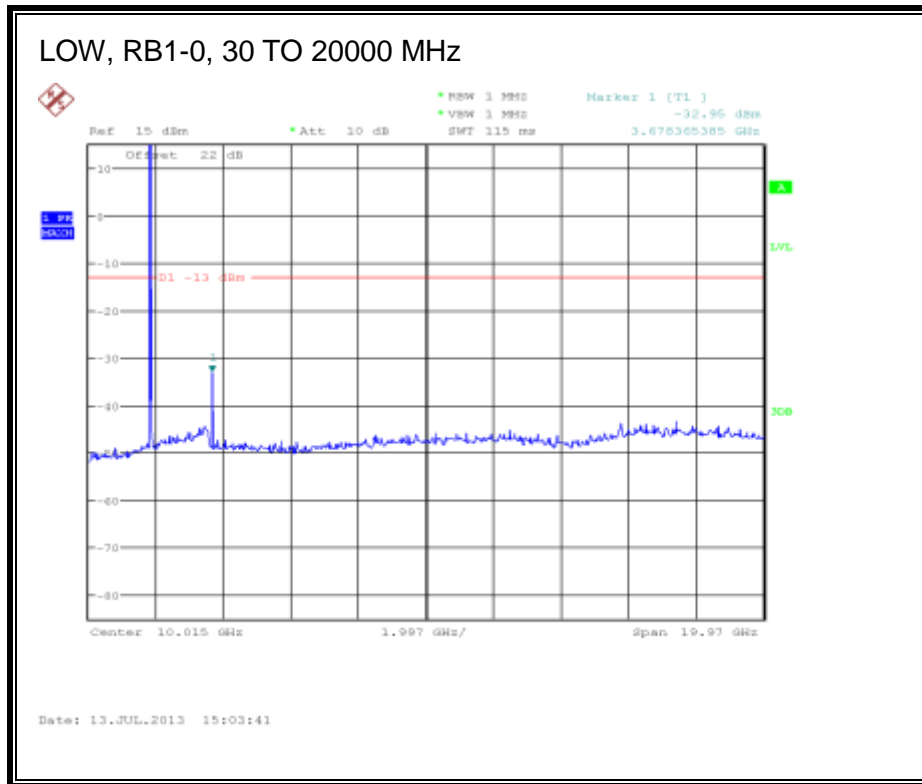
Band 2 (15.0 MHz BAND WIDTH)

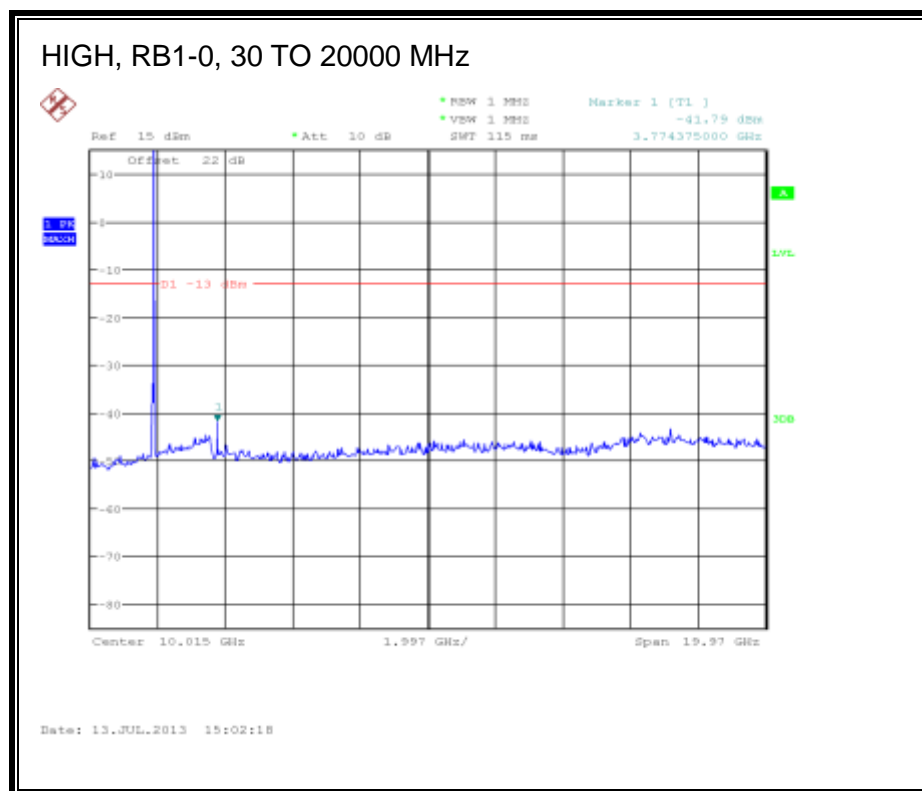
LTE QPSK





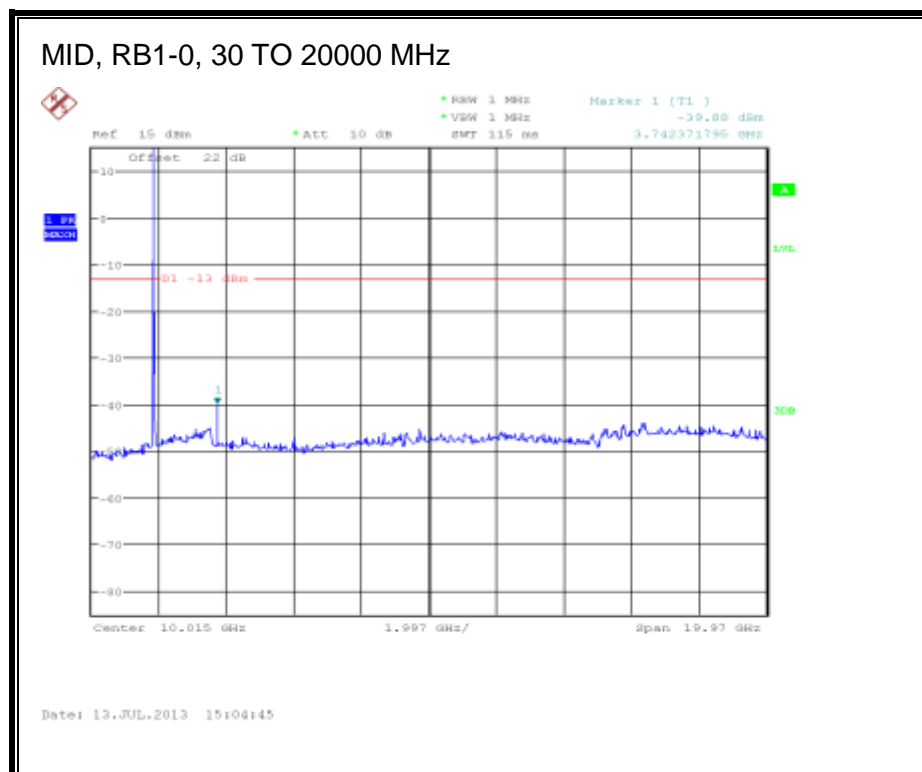
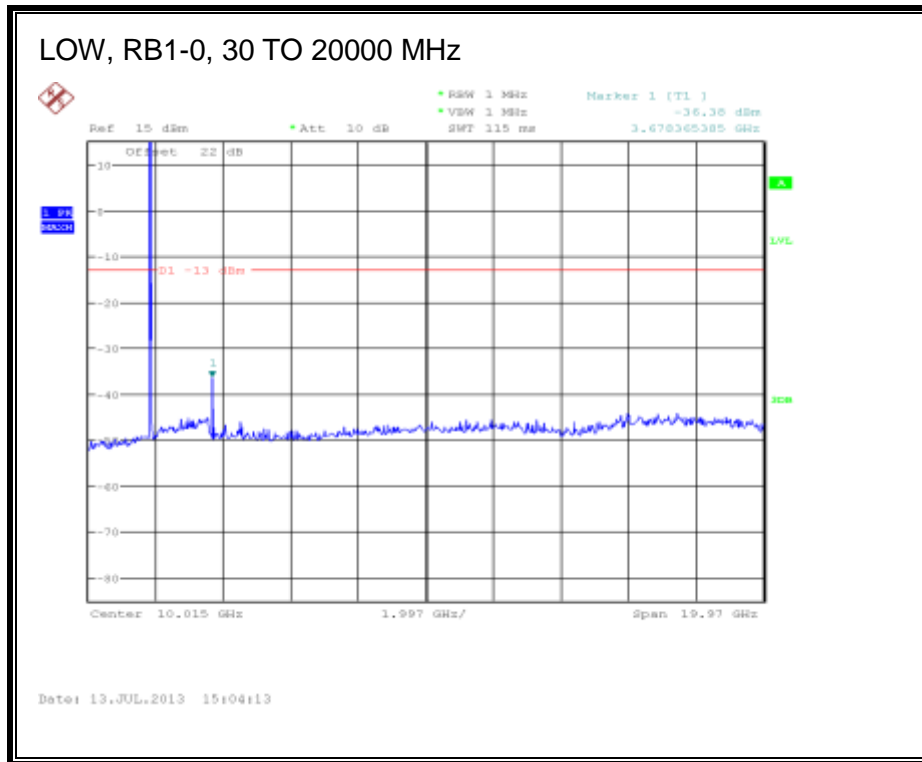
LTE 16QAM

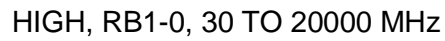




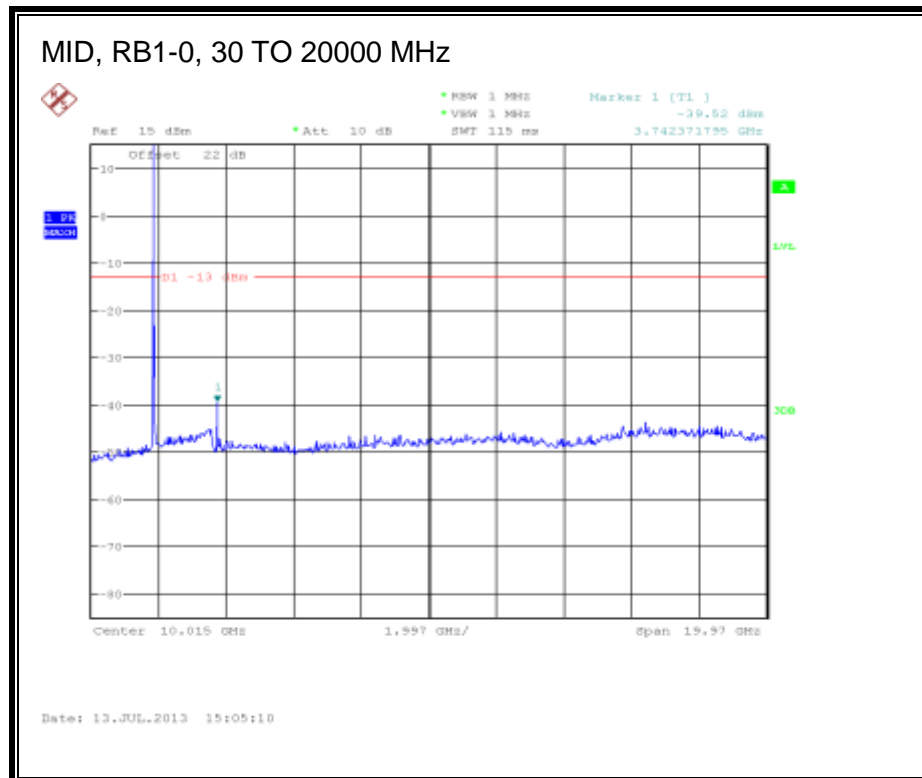
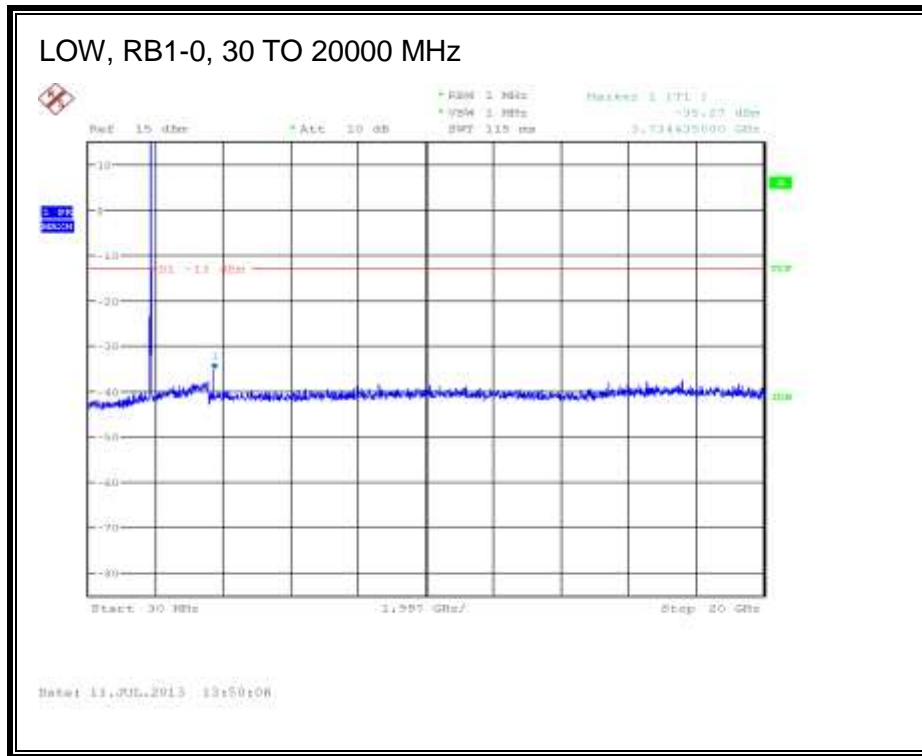
Band 2 (20.0 MHz BAND WIDTH)

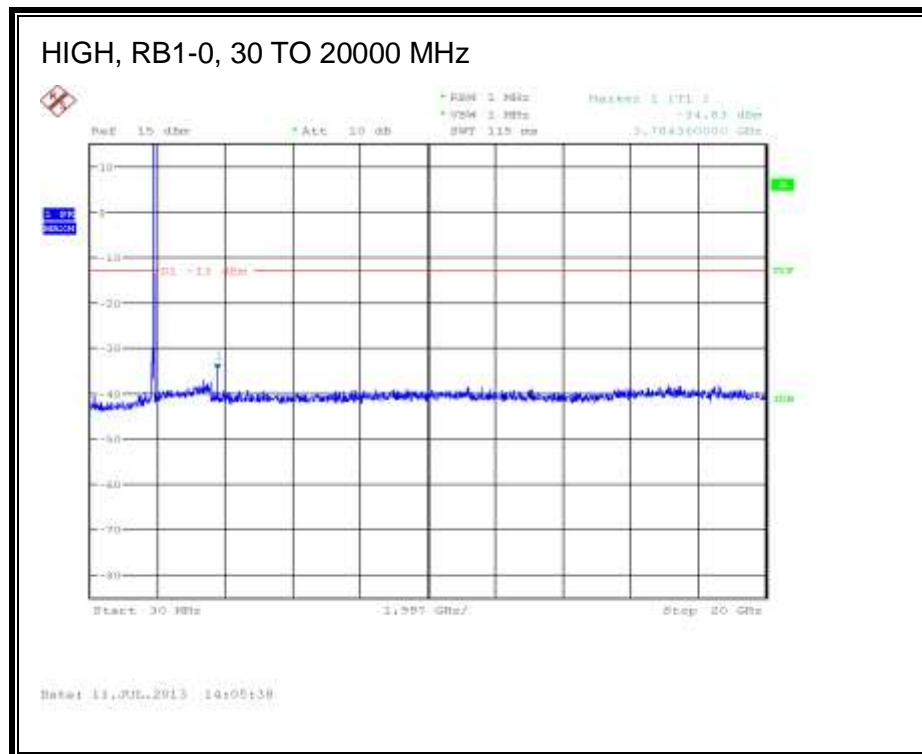
LTE QPSK





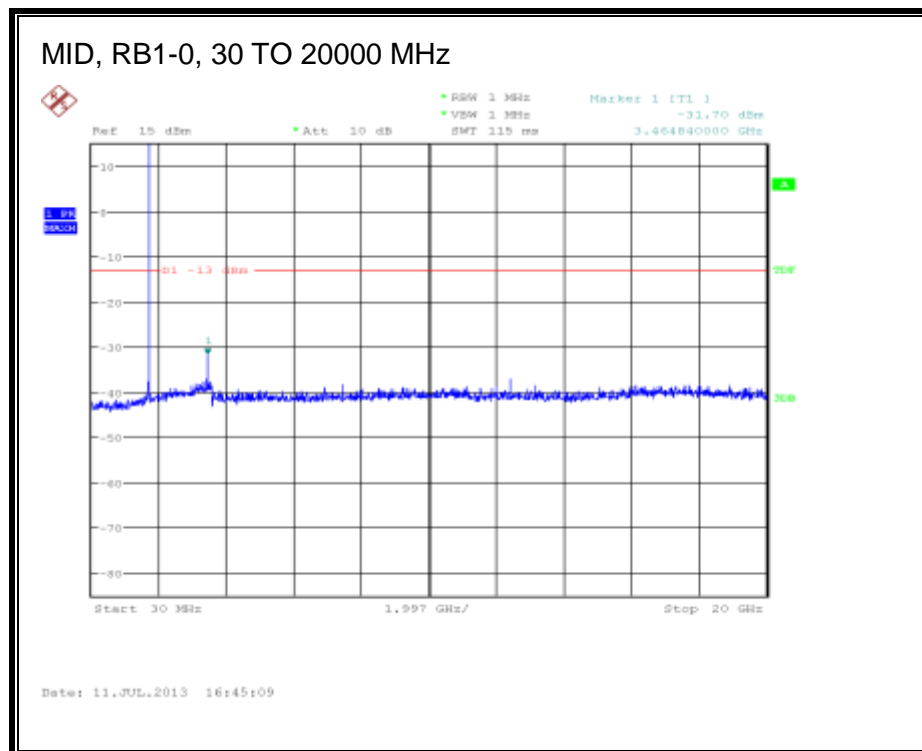
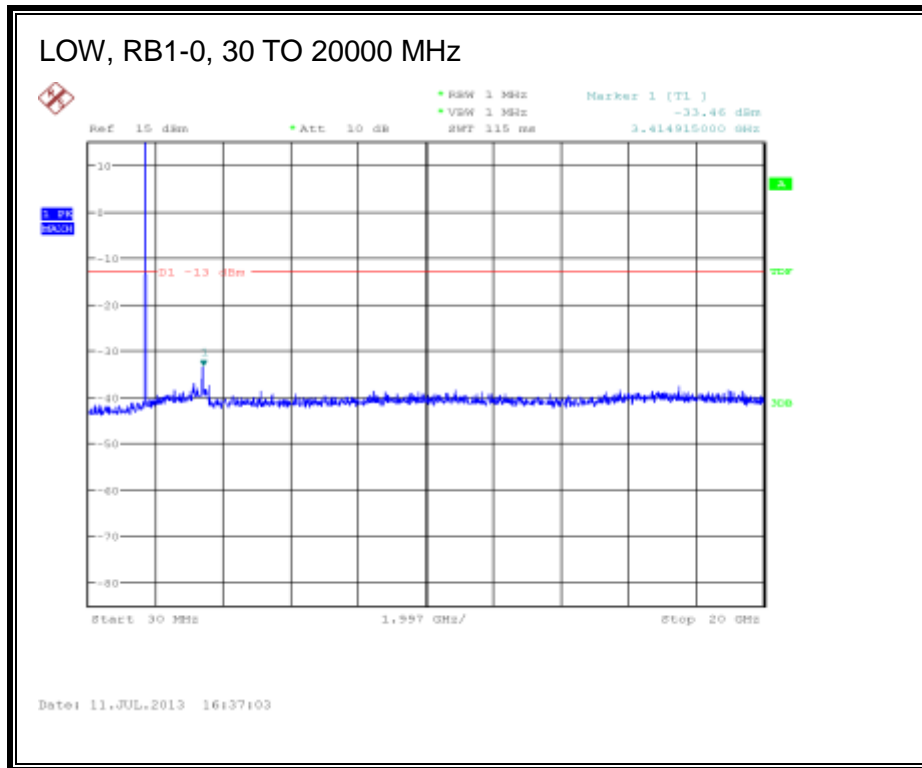
LTE 16QAM

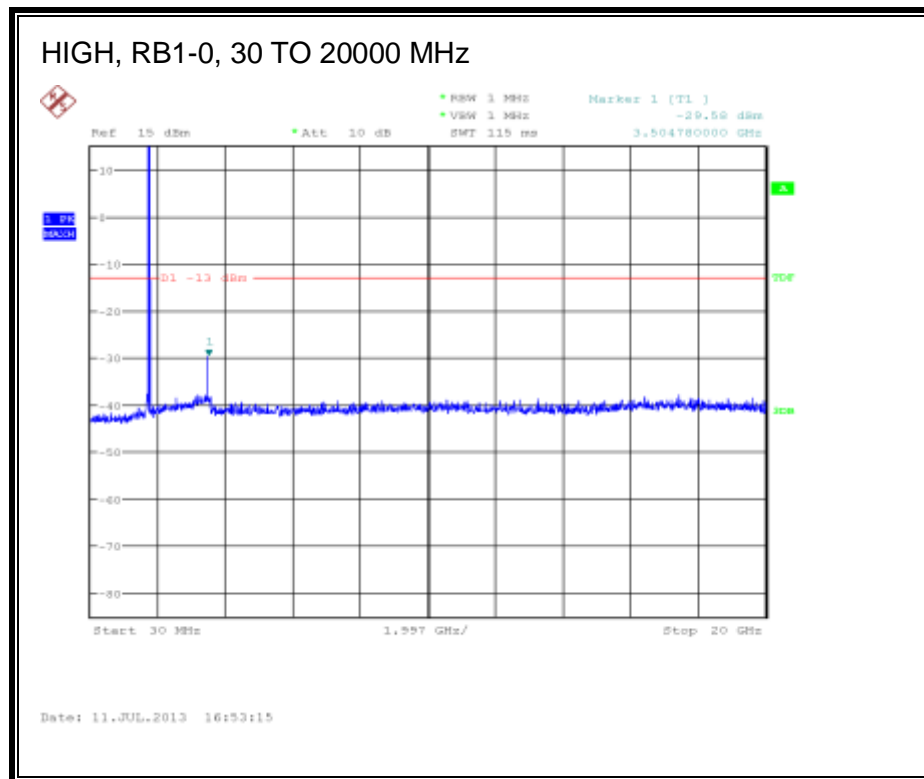




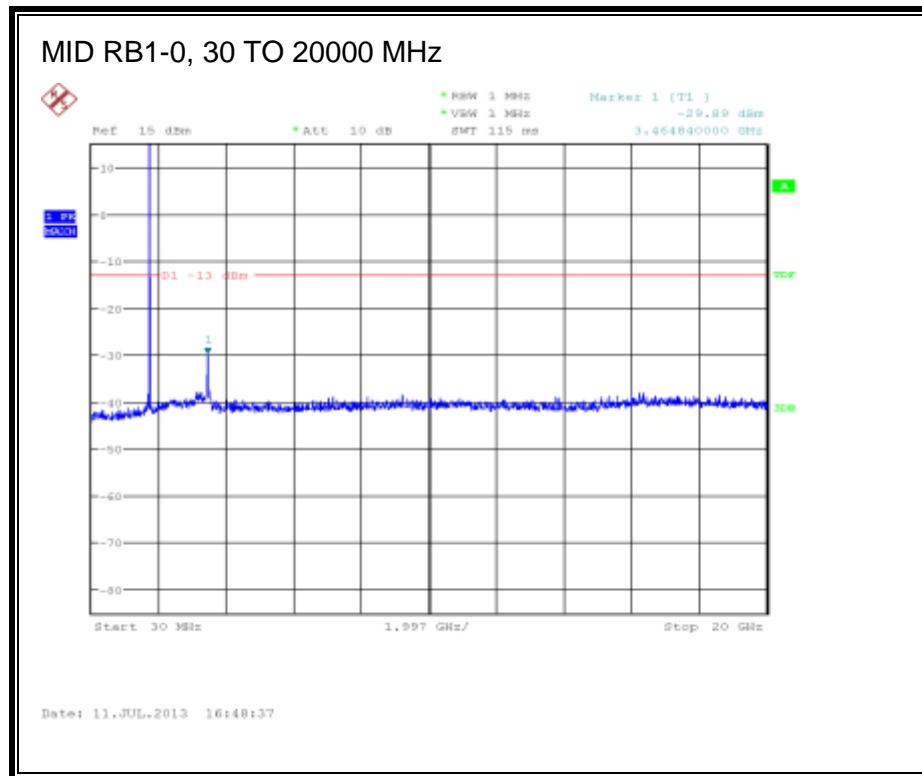
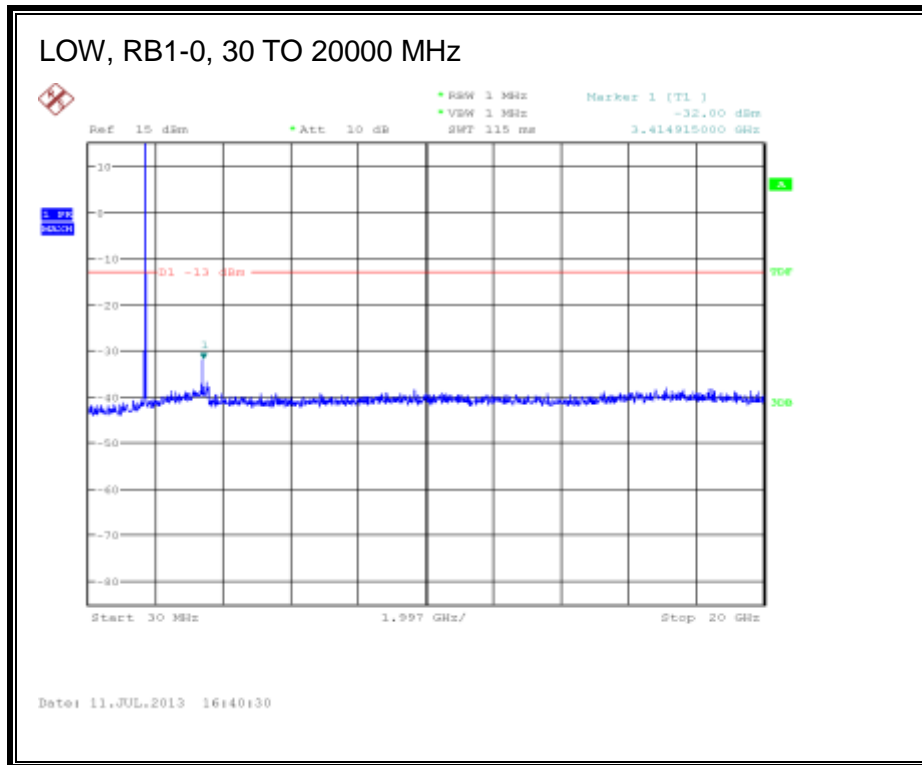
8.3.2. LTE BAND 4

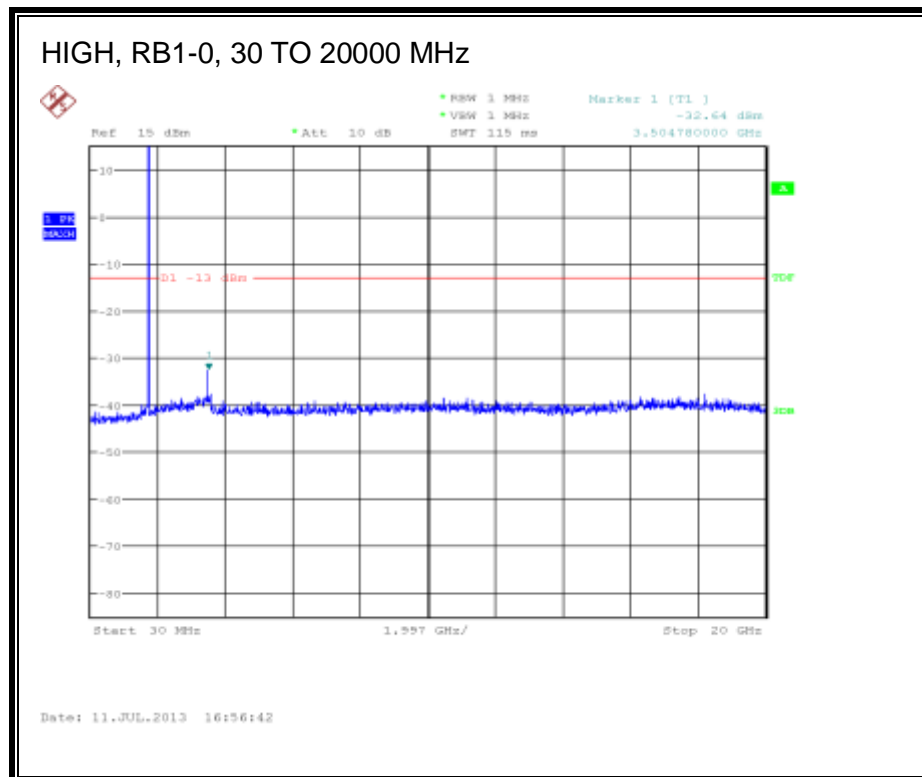
LTE QPSK (1.4 MHz BAND WIDTH)





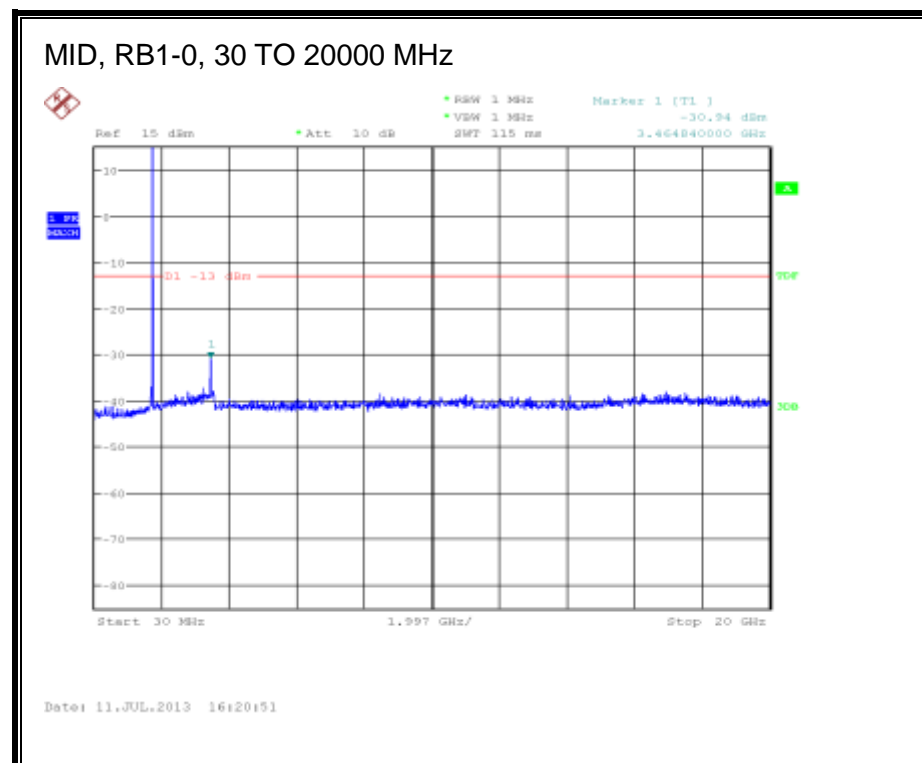
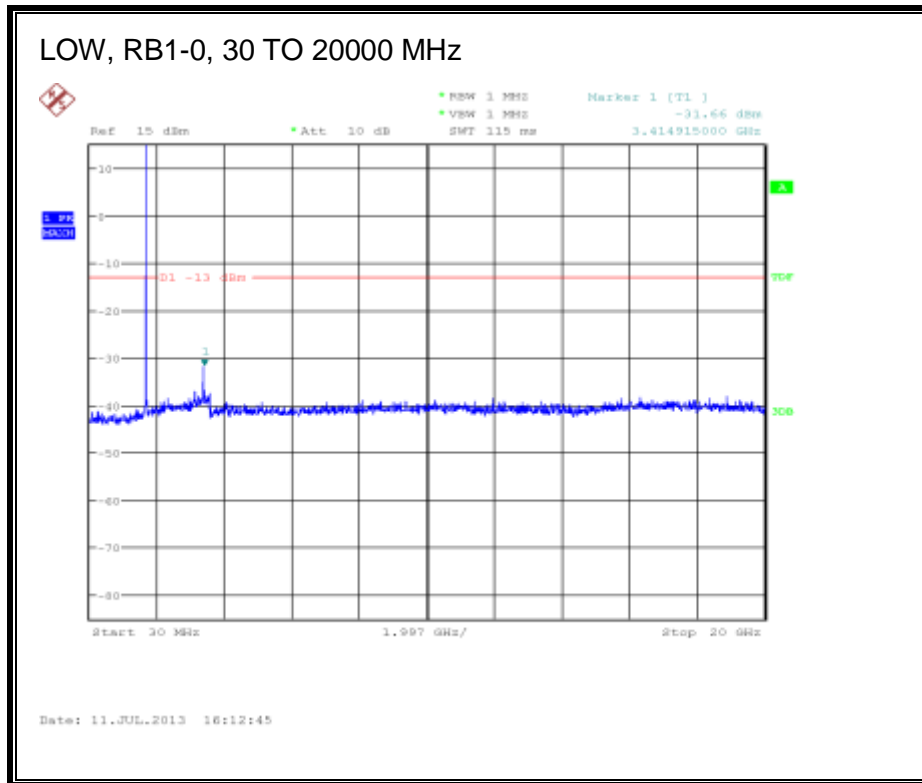
LTE 16QAM

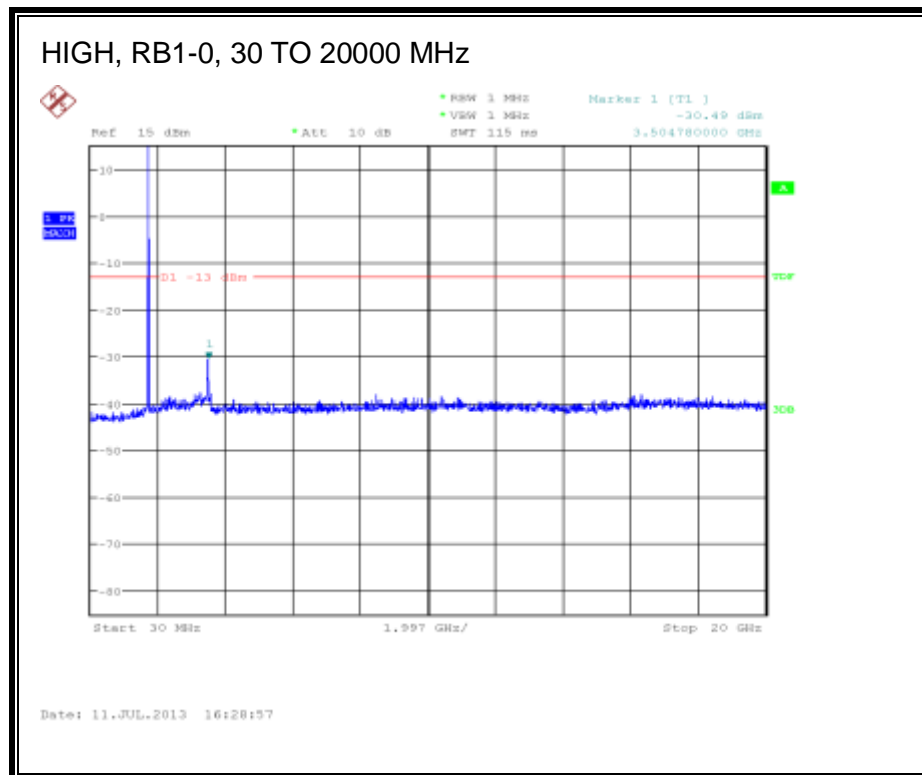




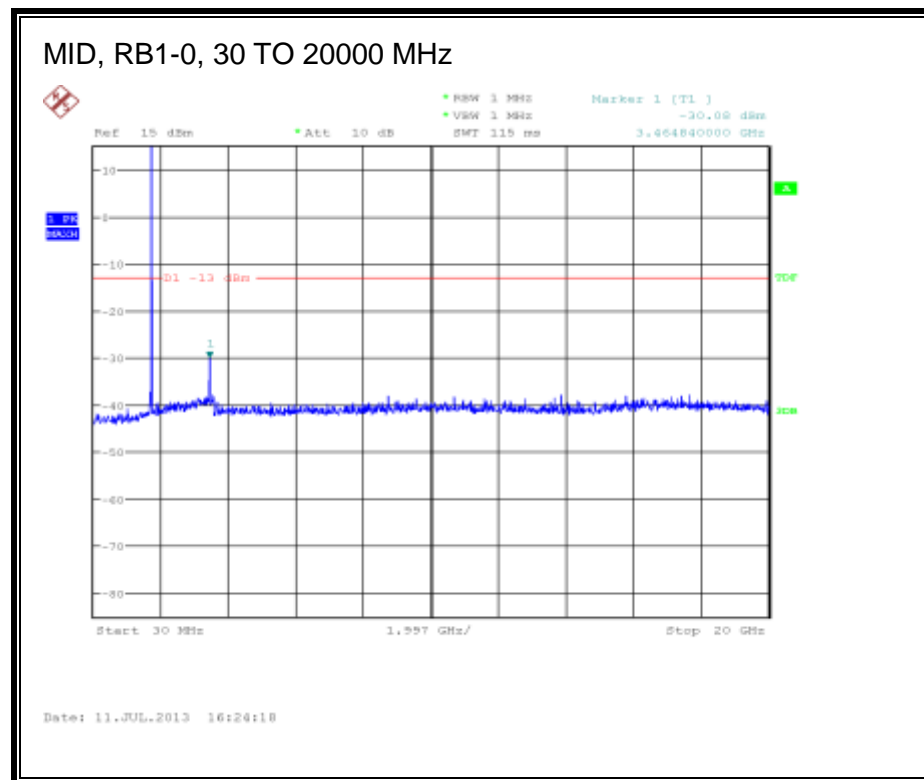
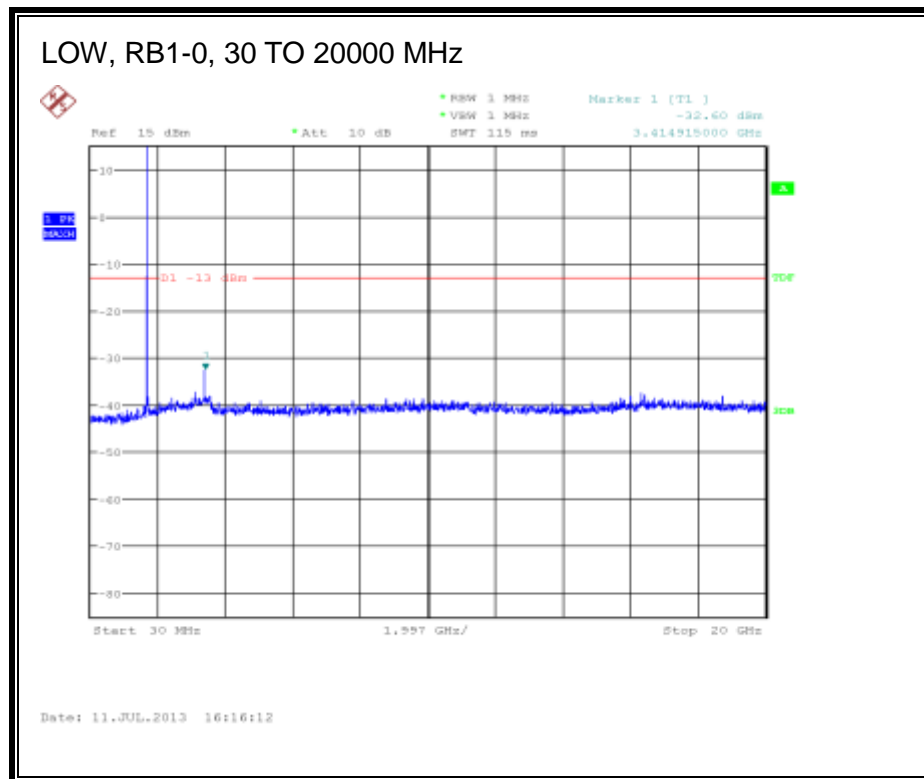
Band 4 (3.0 MHz BAND WIDTH)

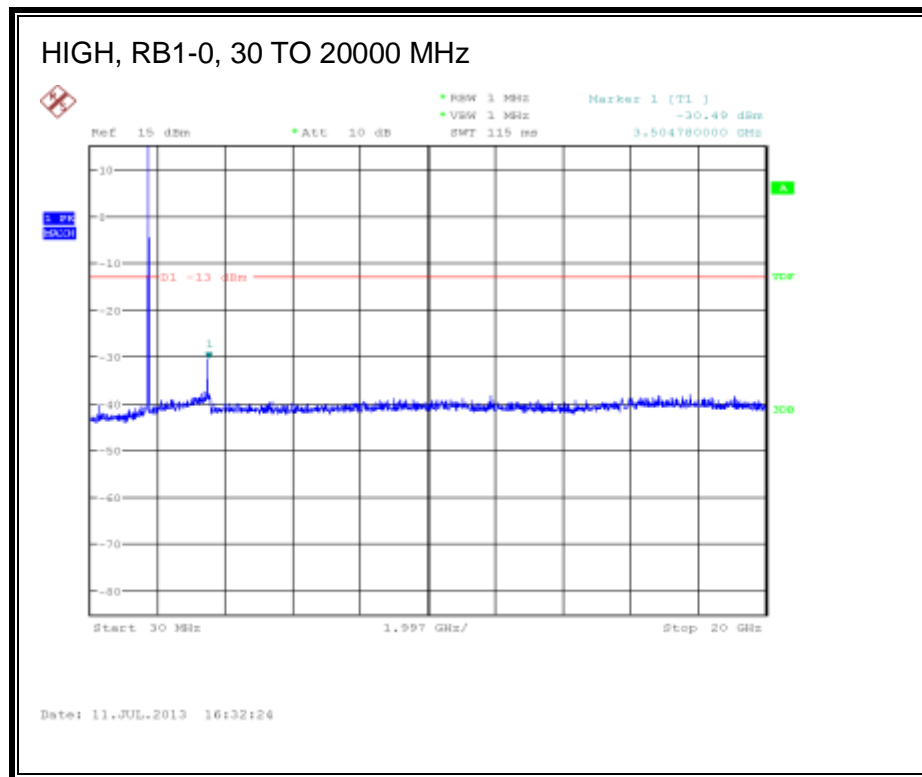
LTE QPSK





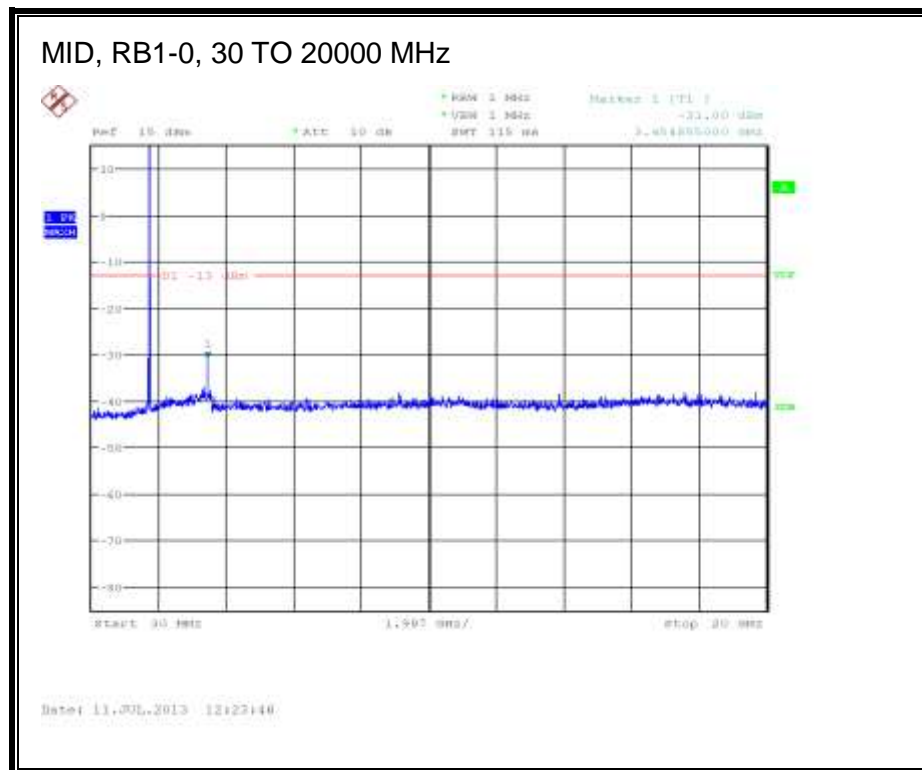
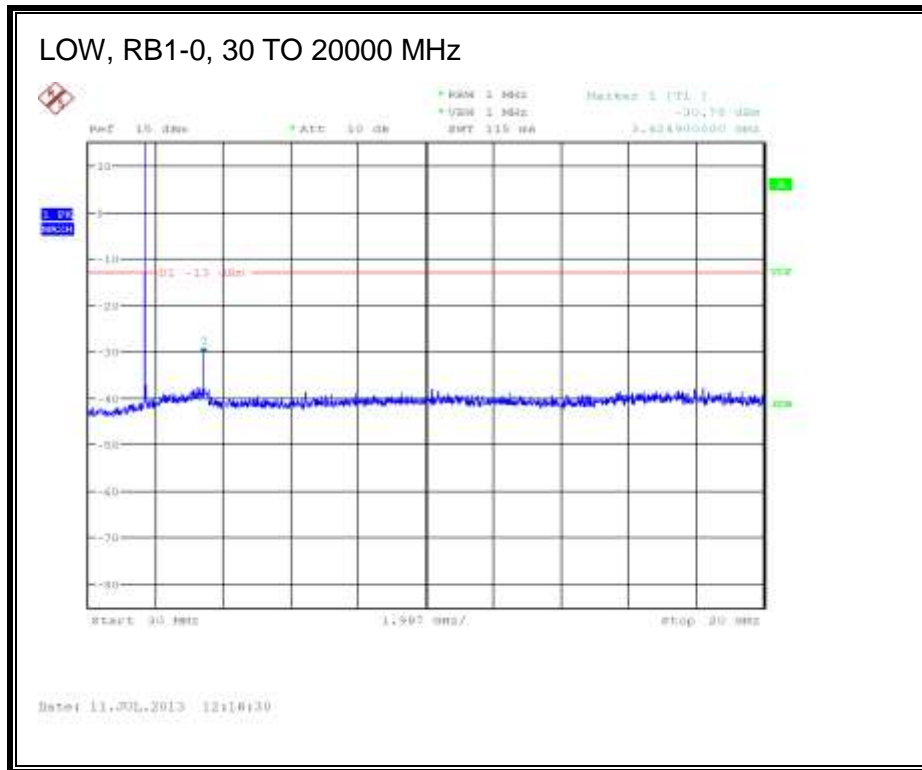
LTE 16QAM

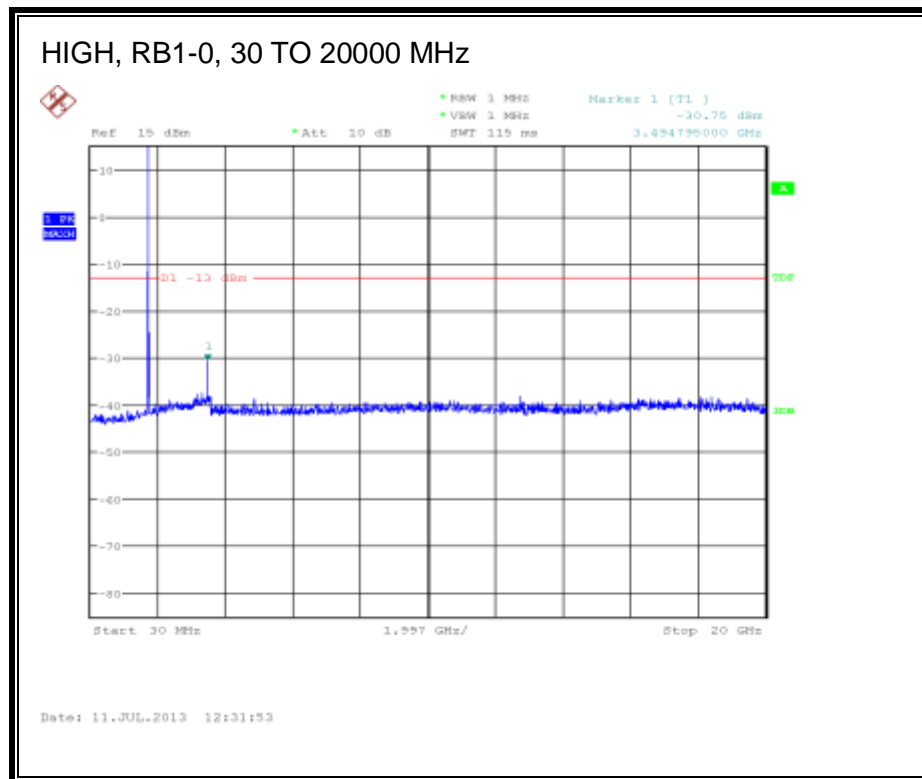




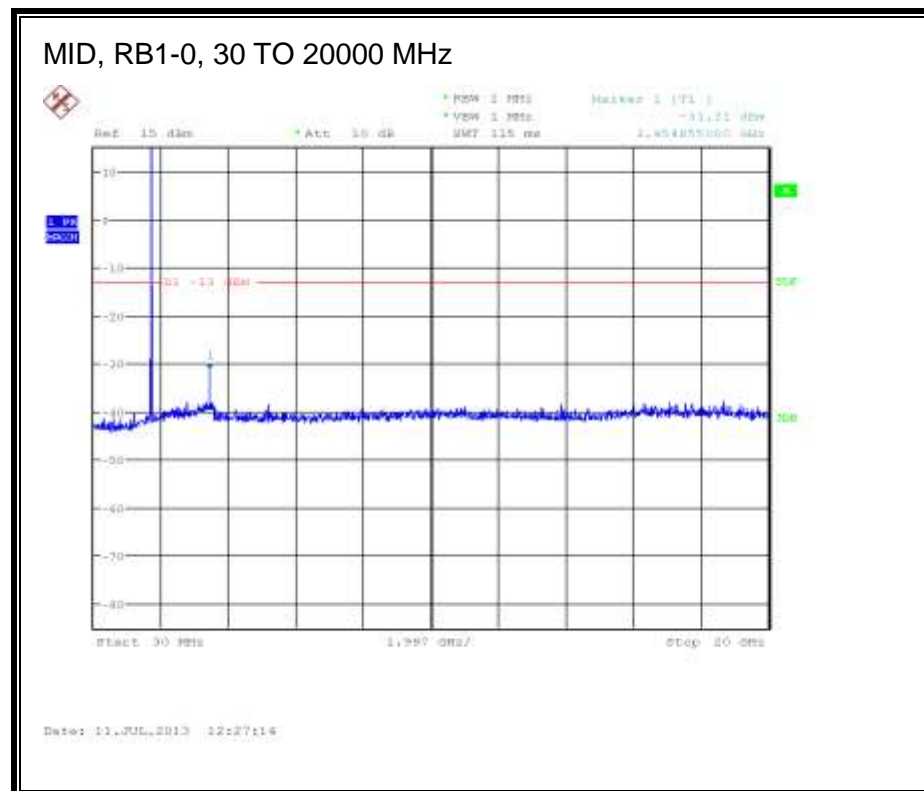
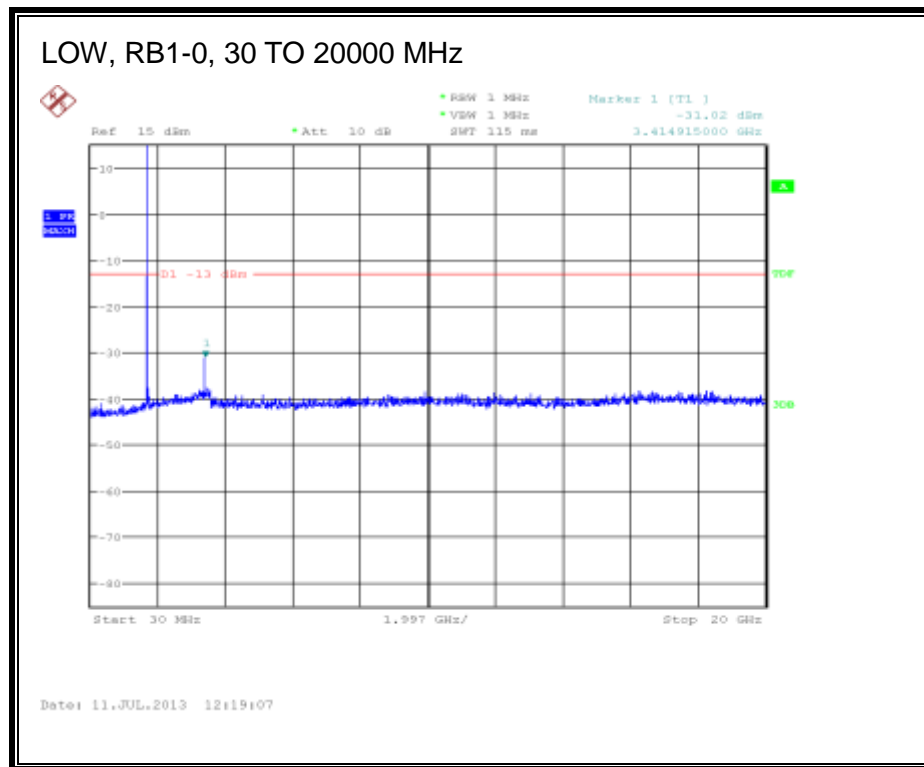
Band 4 (5.0 MHz BAND WIDTH)

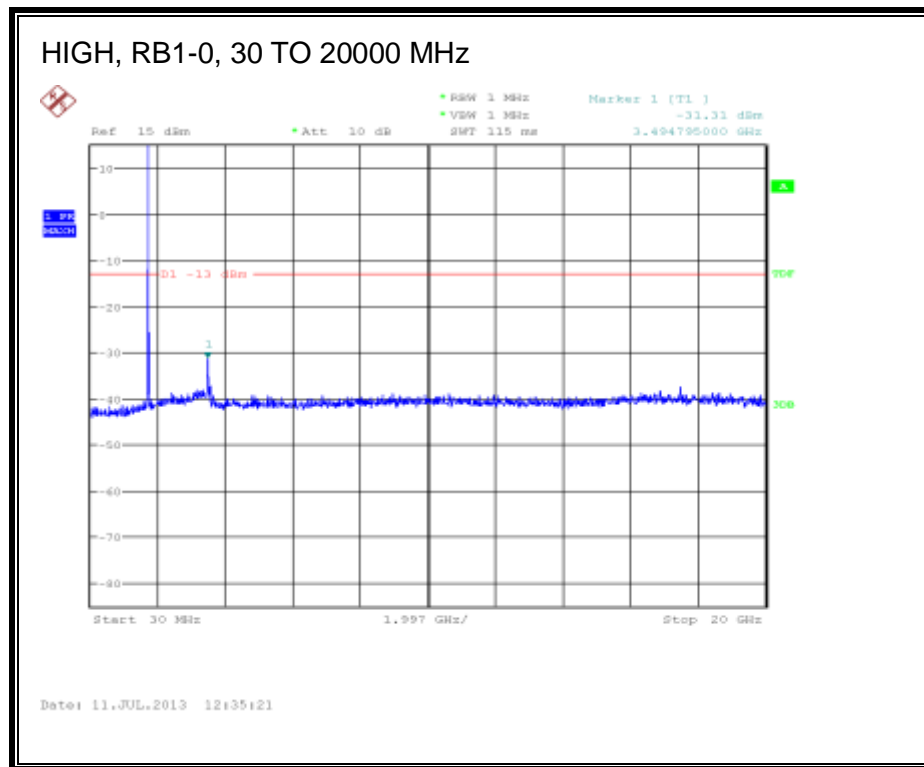
LTE QPSK





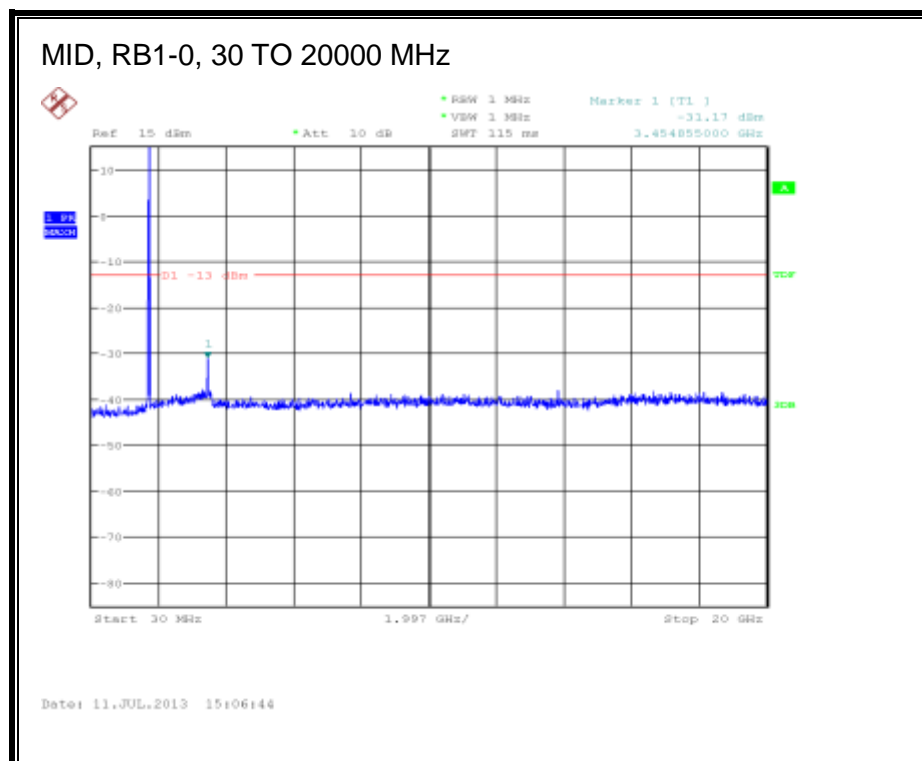
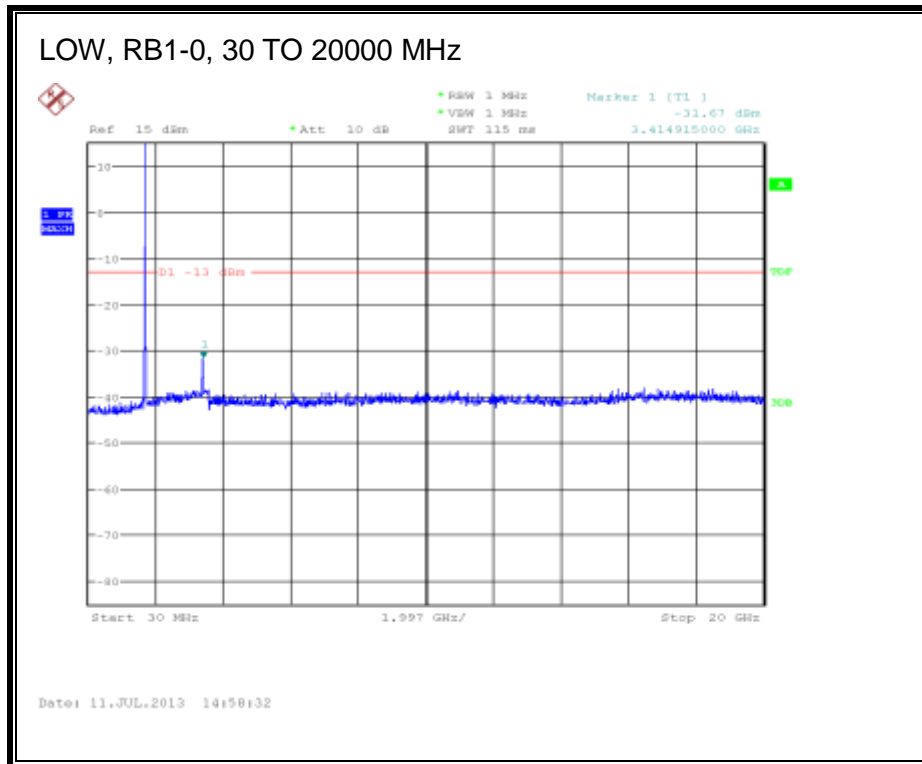
LTE 16QAM

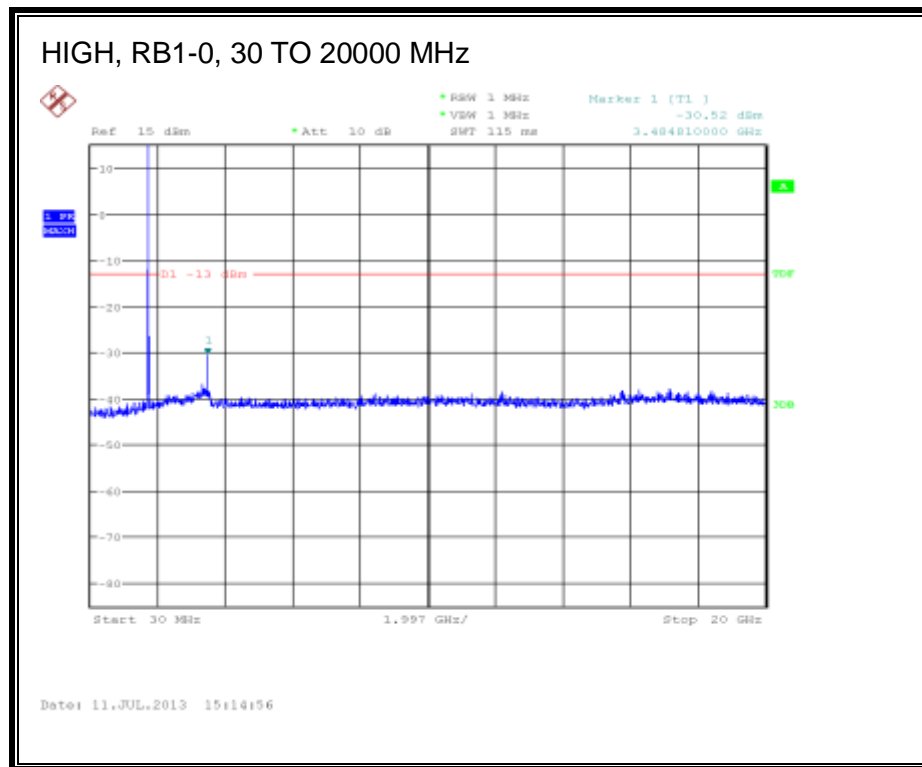




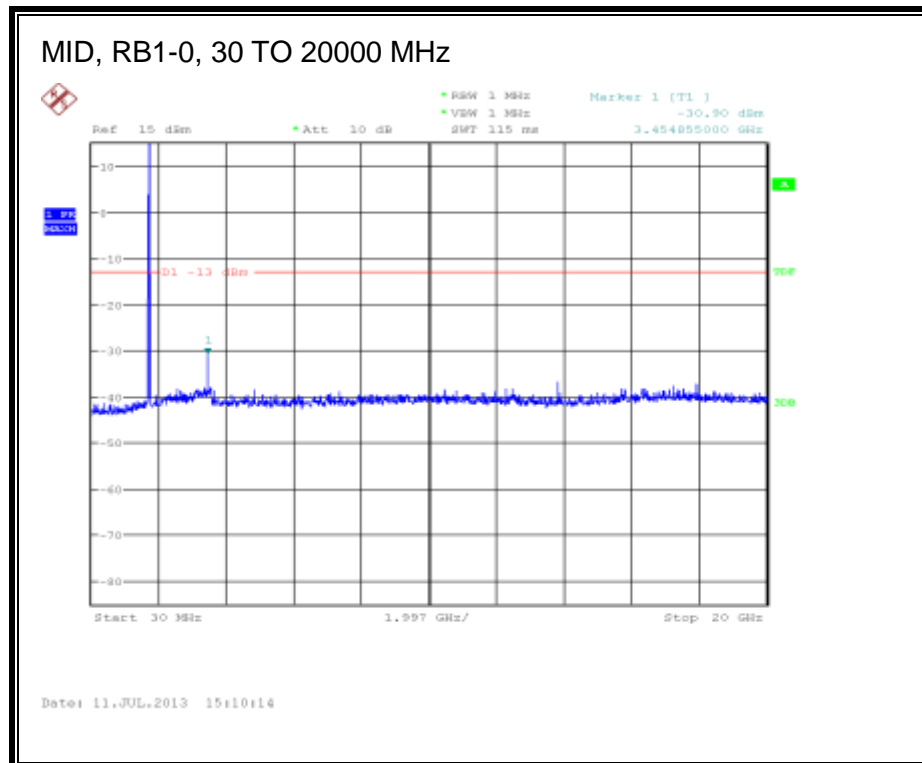
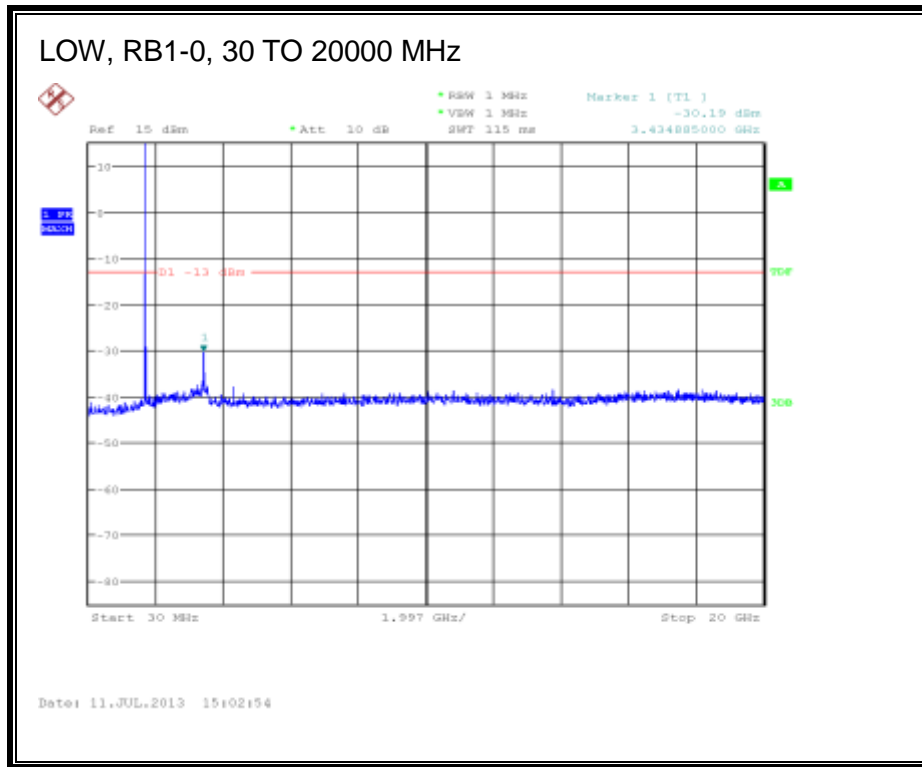
Band 4 (10.0 MHz BAND WIDTH)

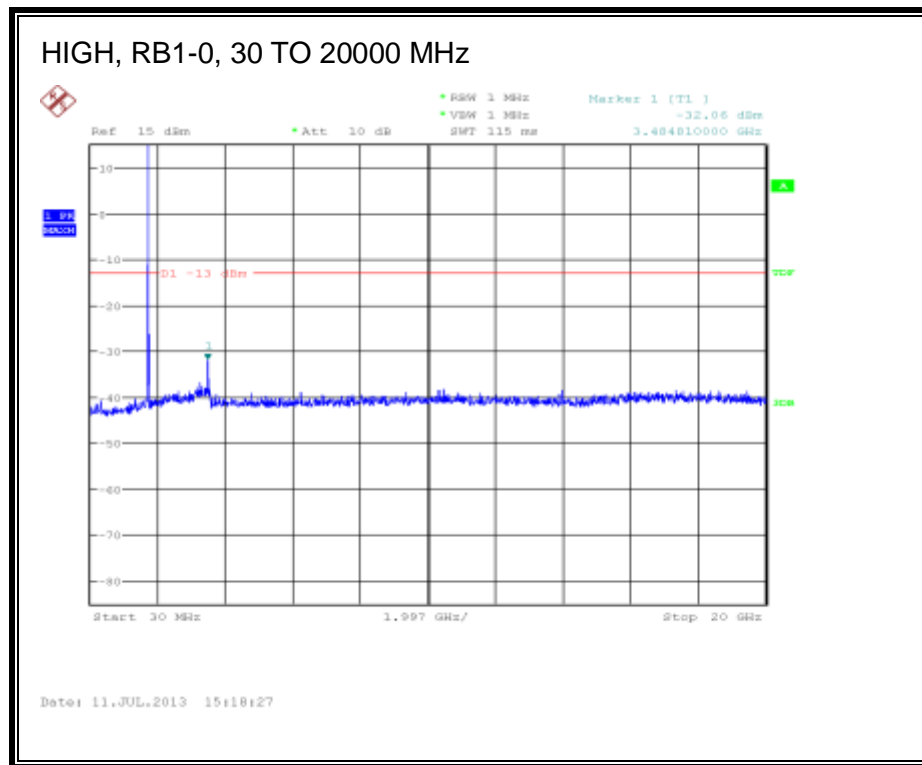
LTE QPSK





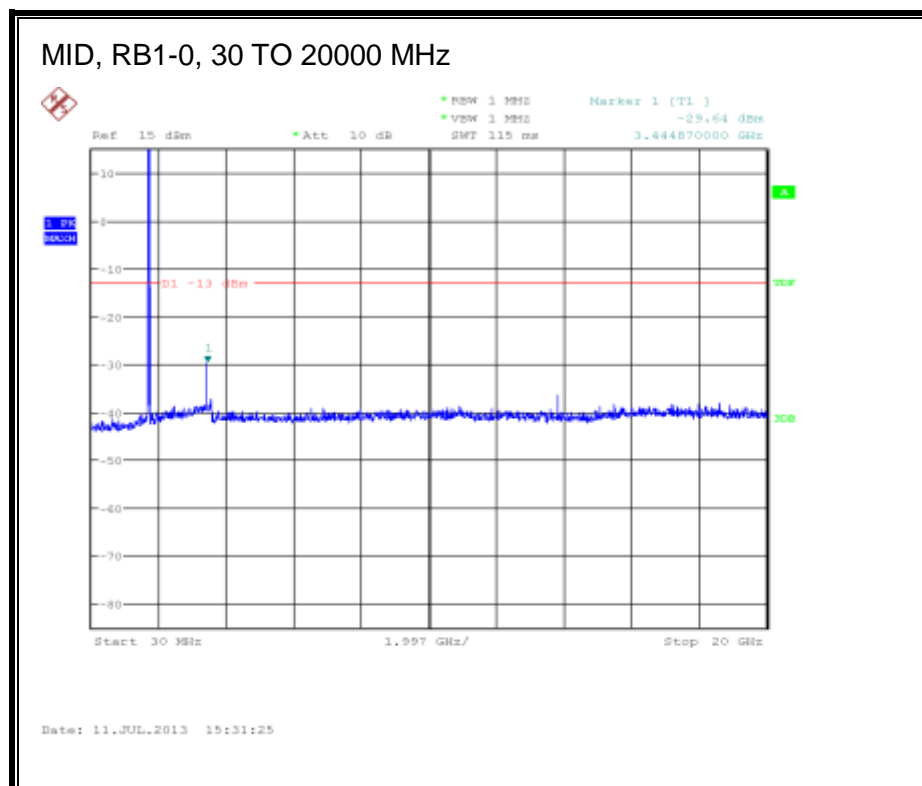
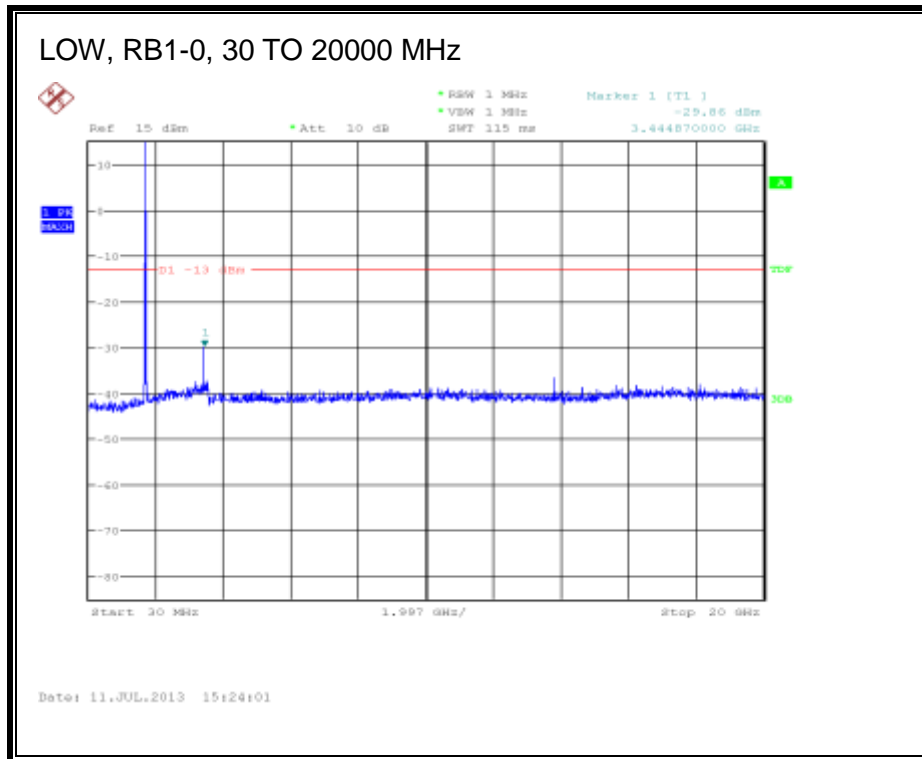
LTE 16QAM

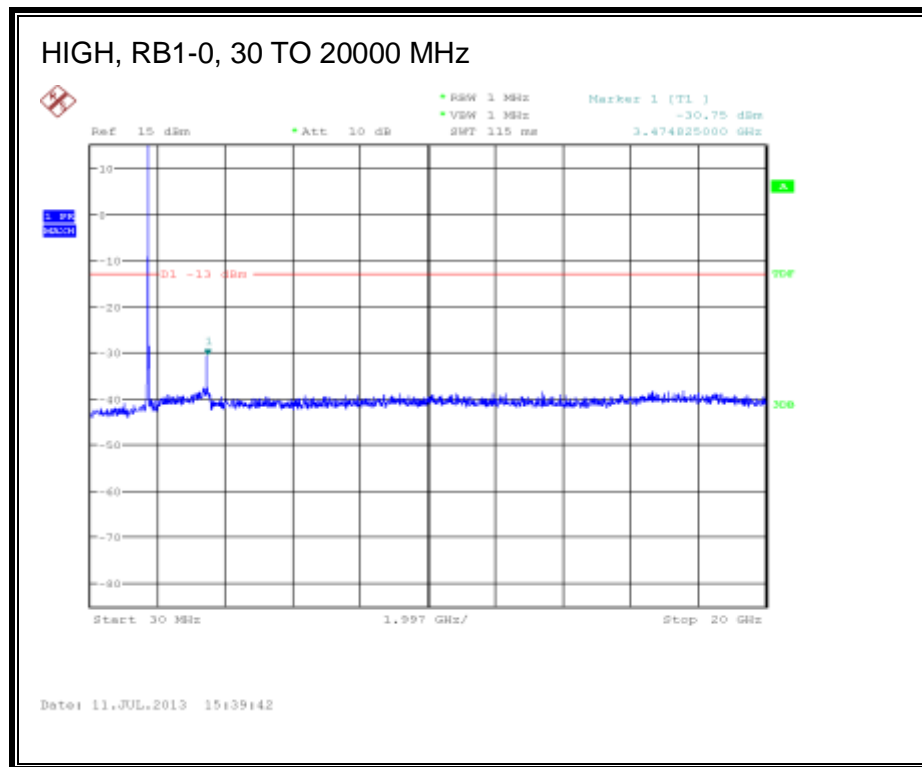




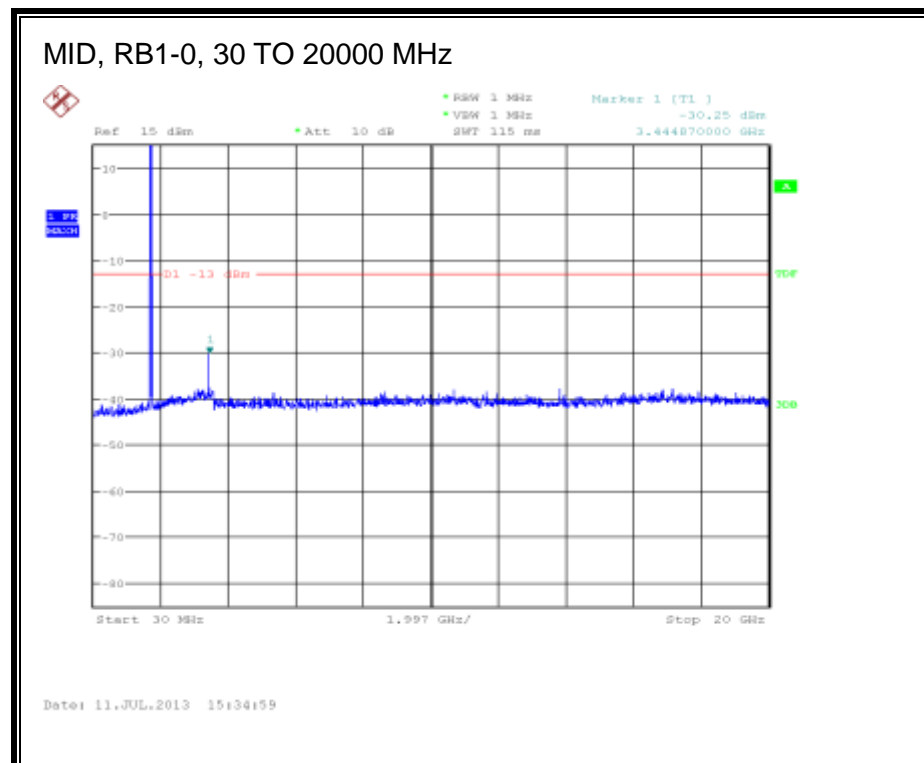
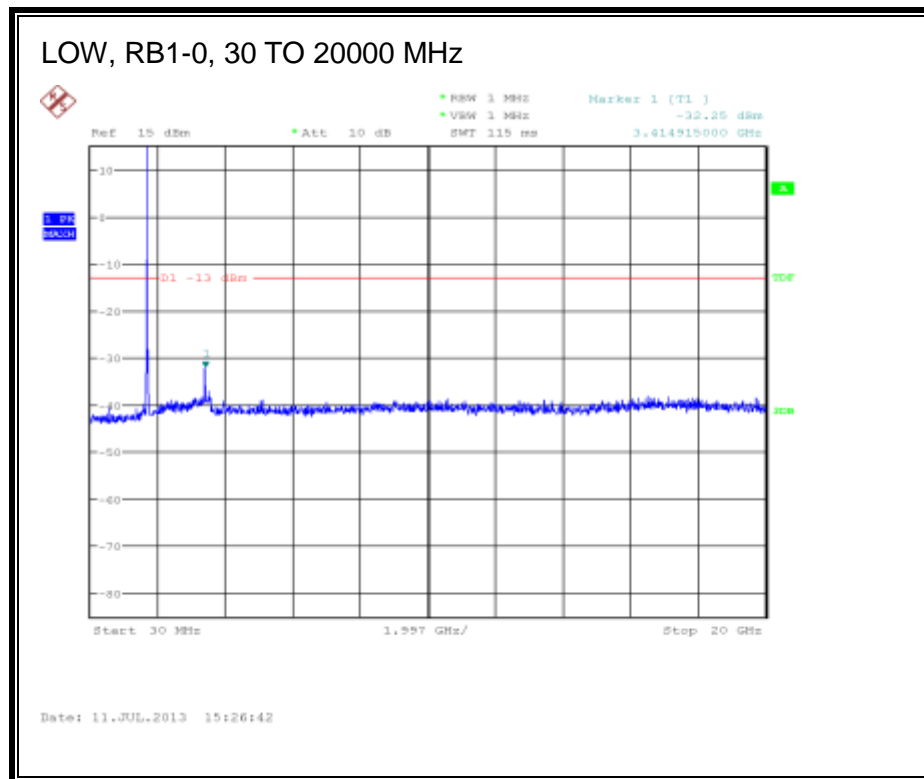
Band 4 (15.0 MHz BAND WIDTH)

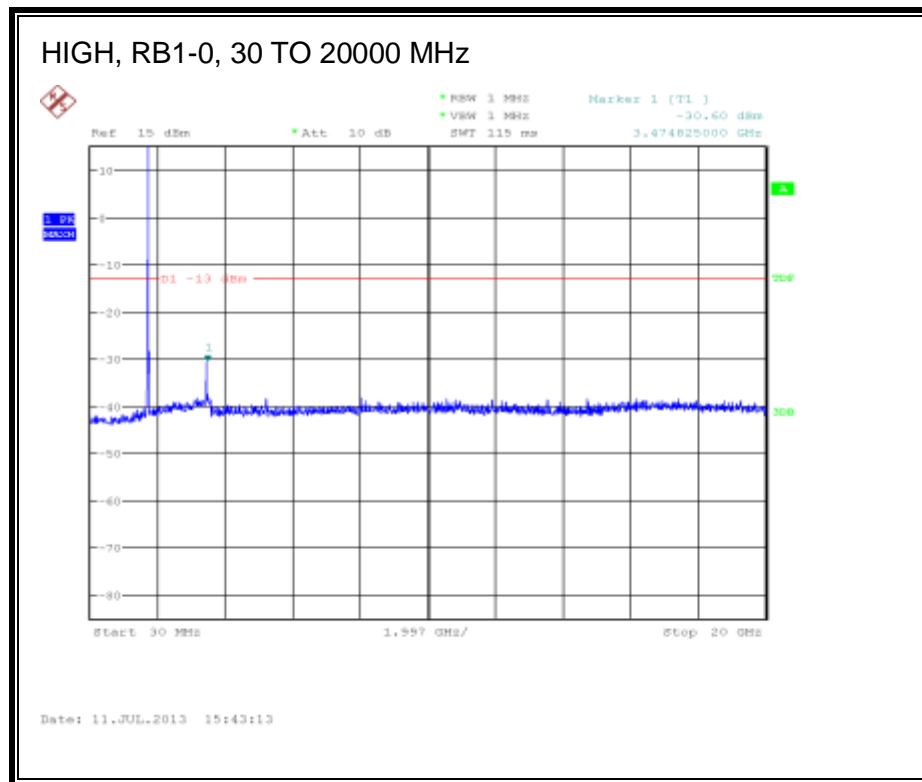
LTE QPSK



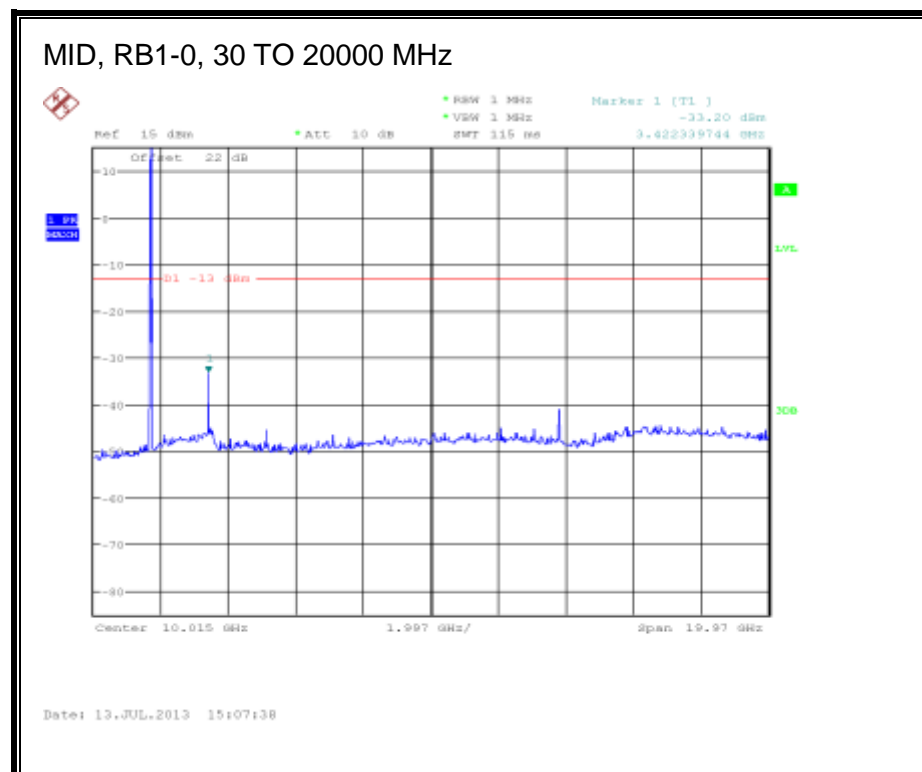
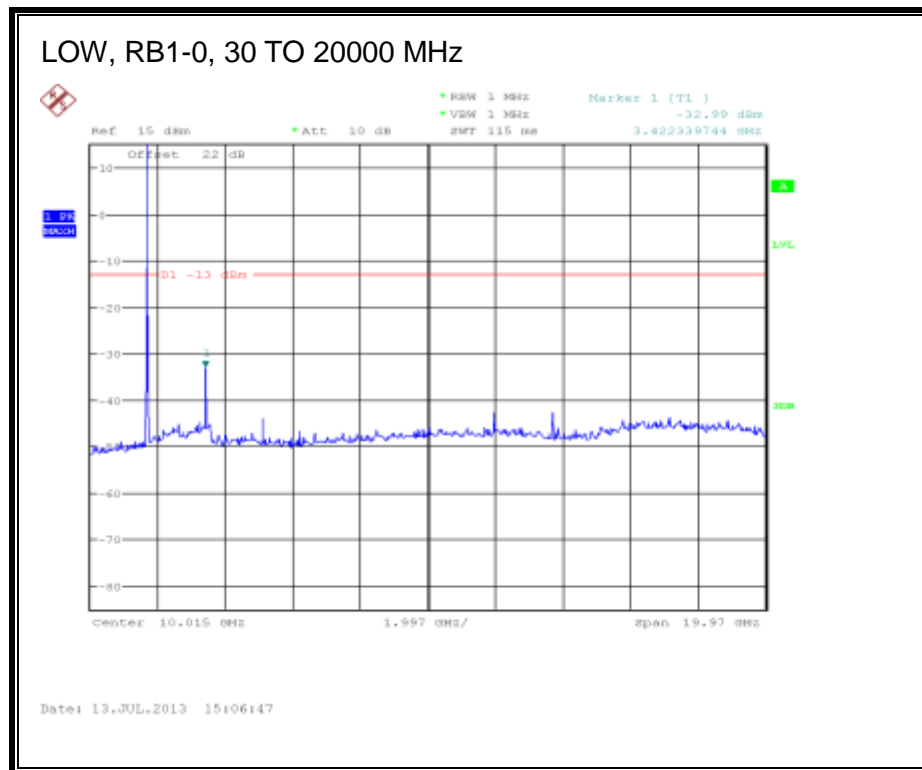


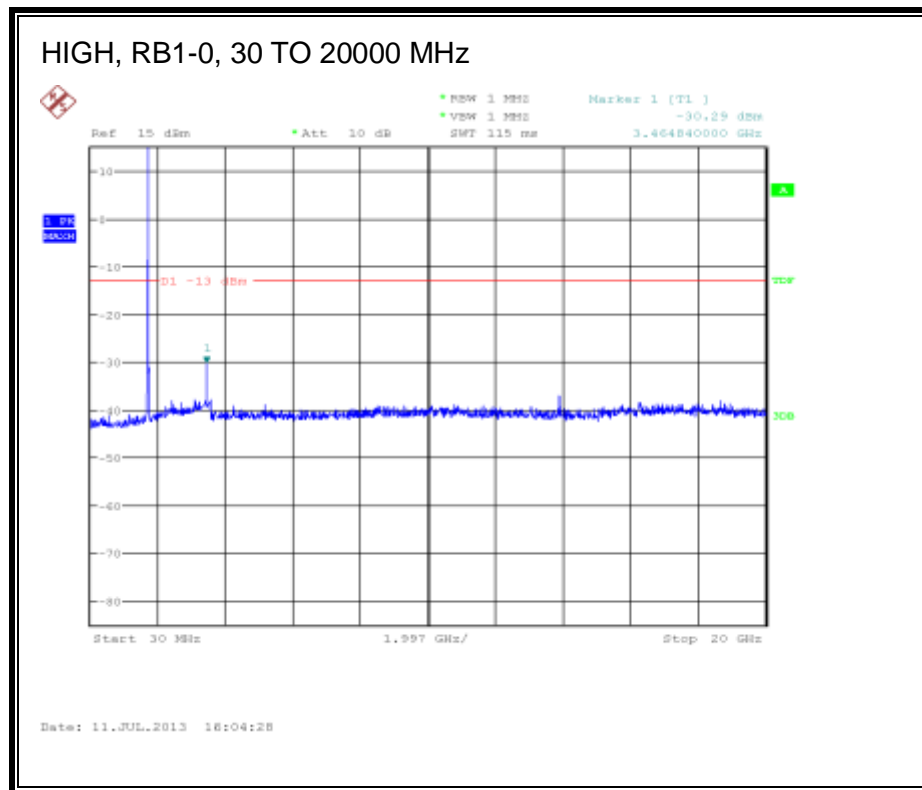
LTE 16QAM



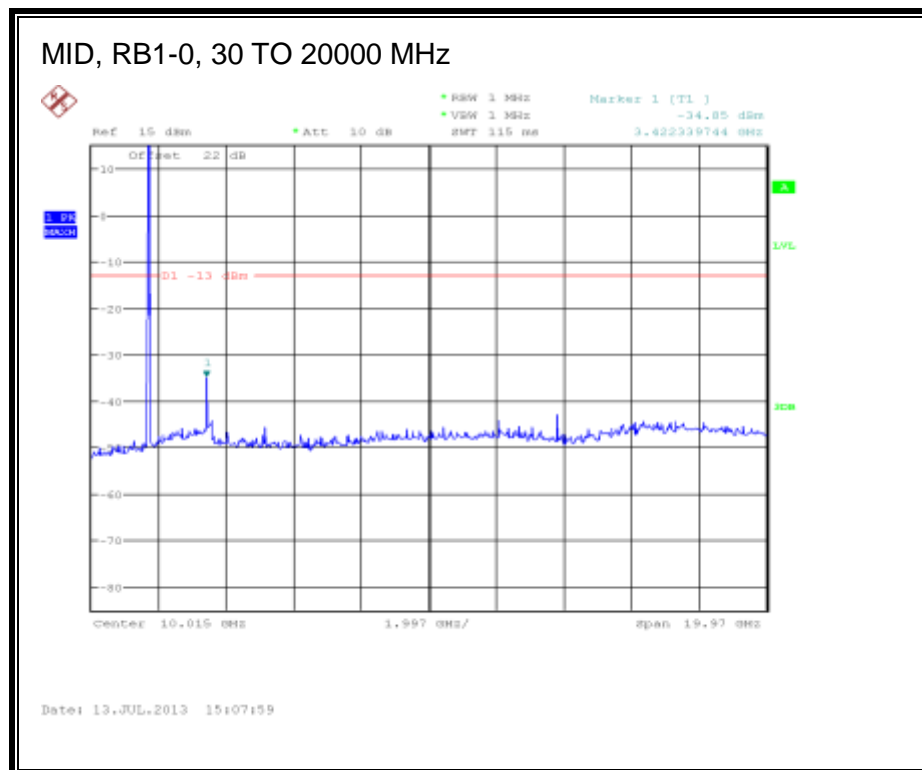
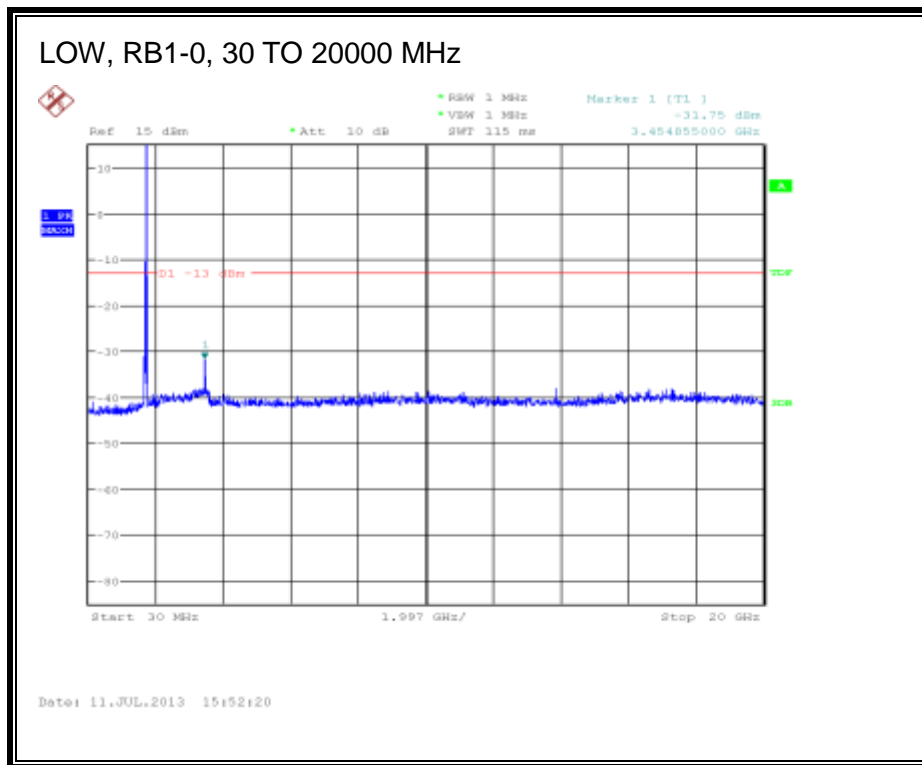


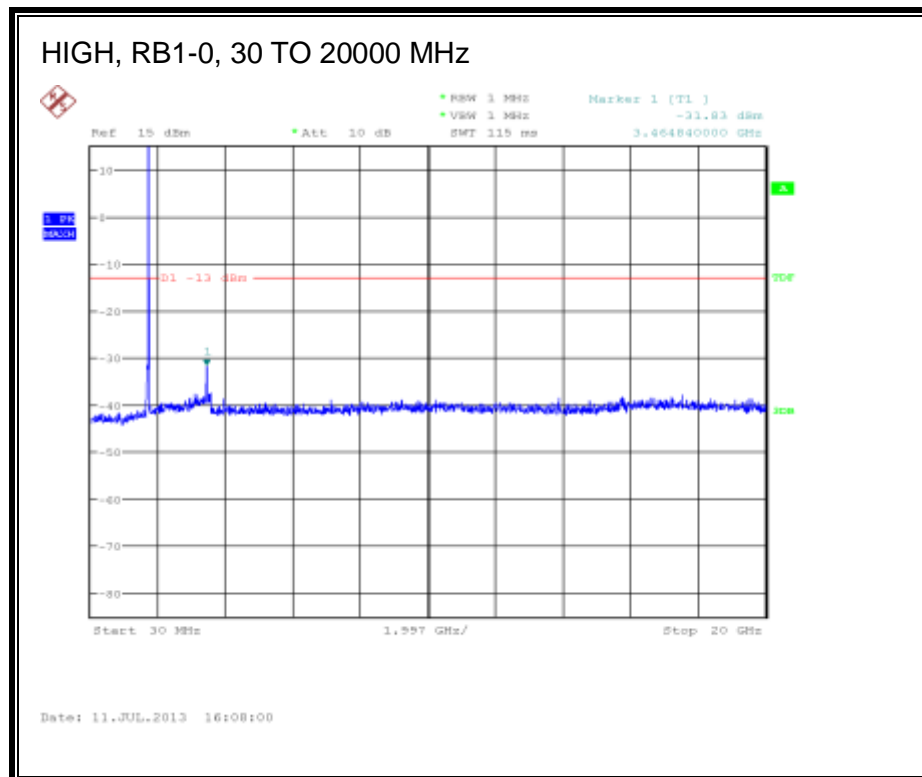
LTE QPSK





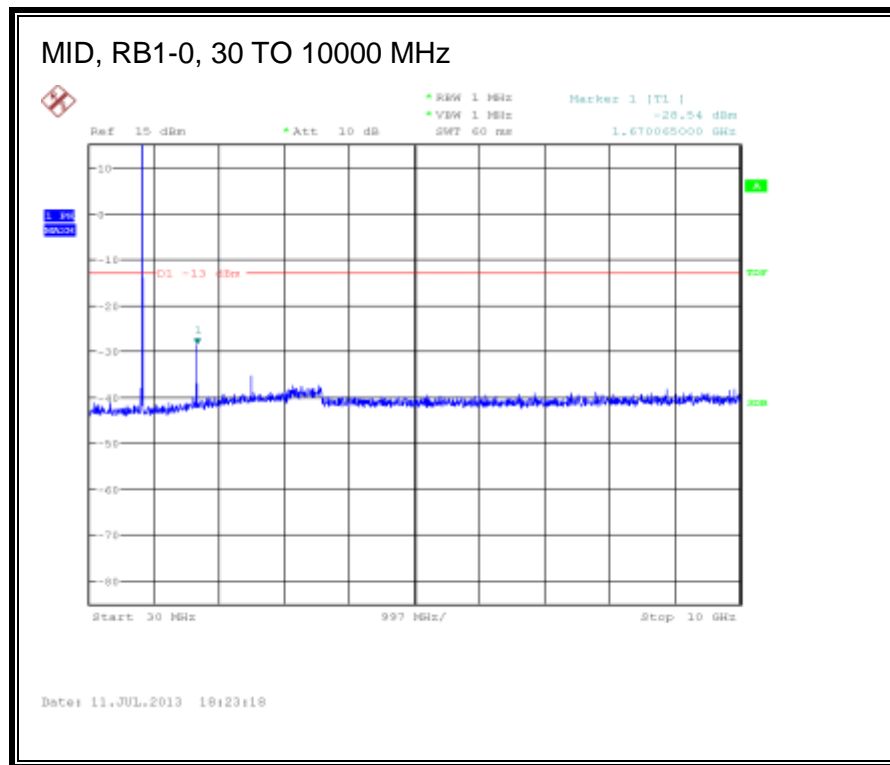
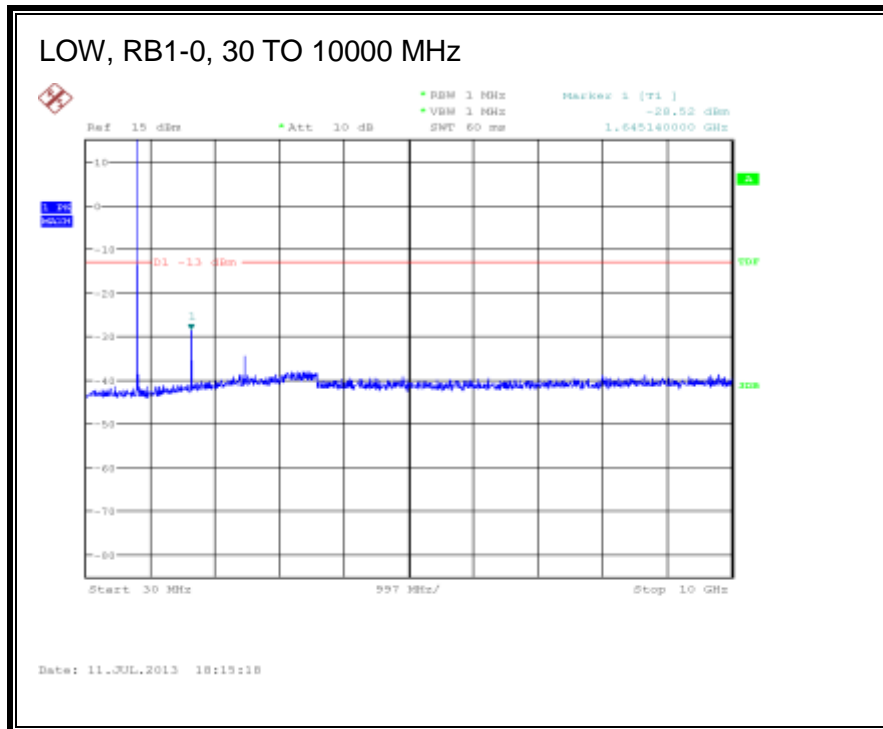
LTE 16QAM

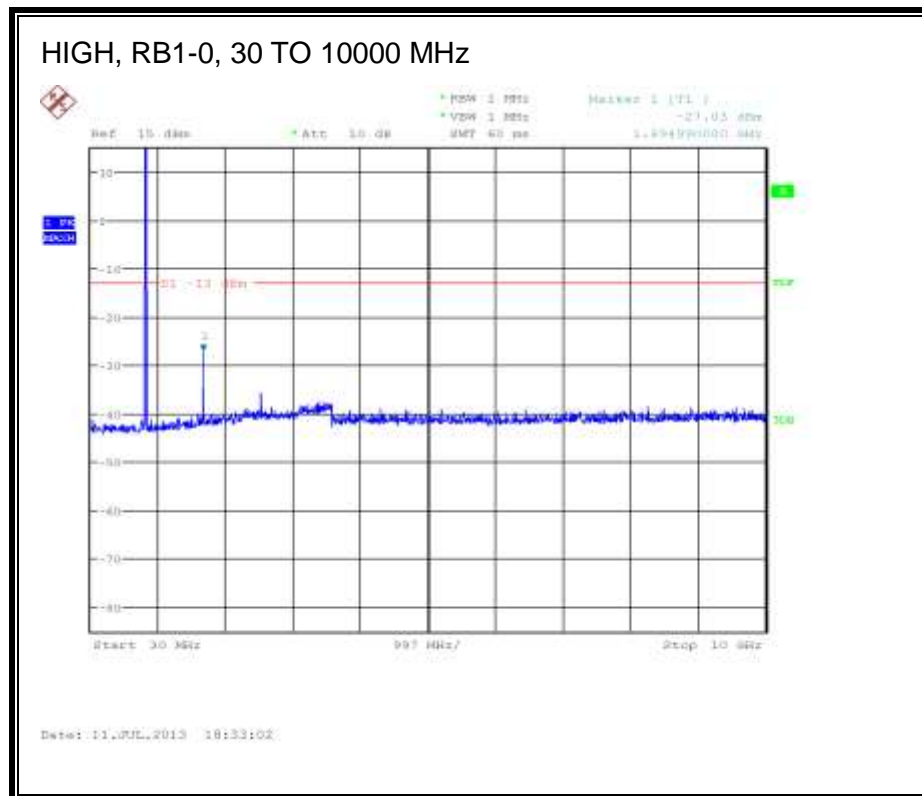




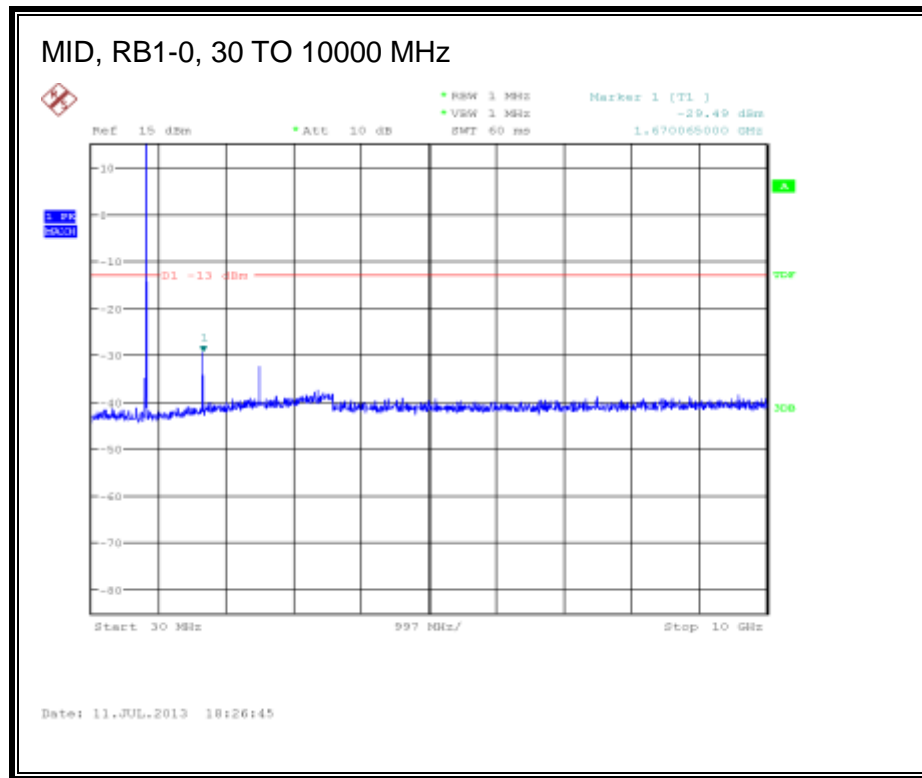
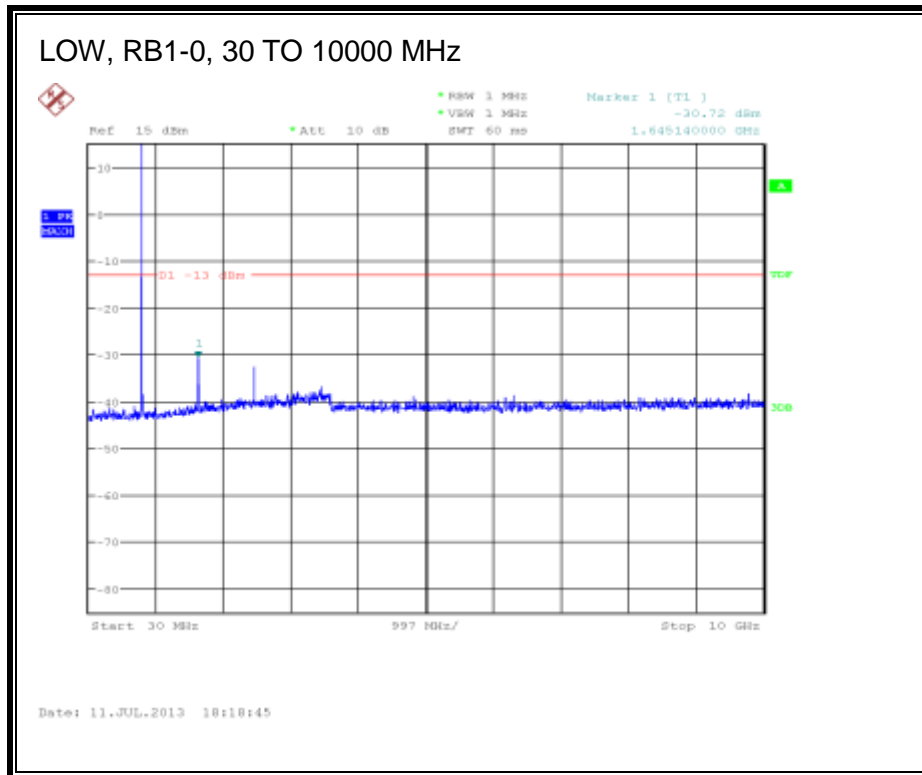
8.3.3. LTE BAND 5

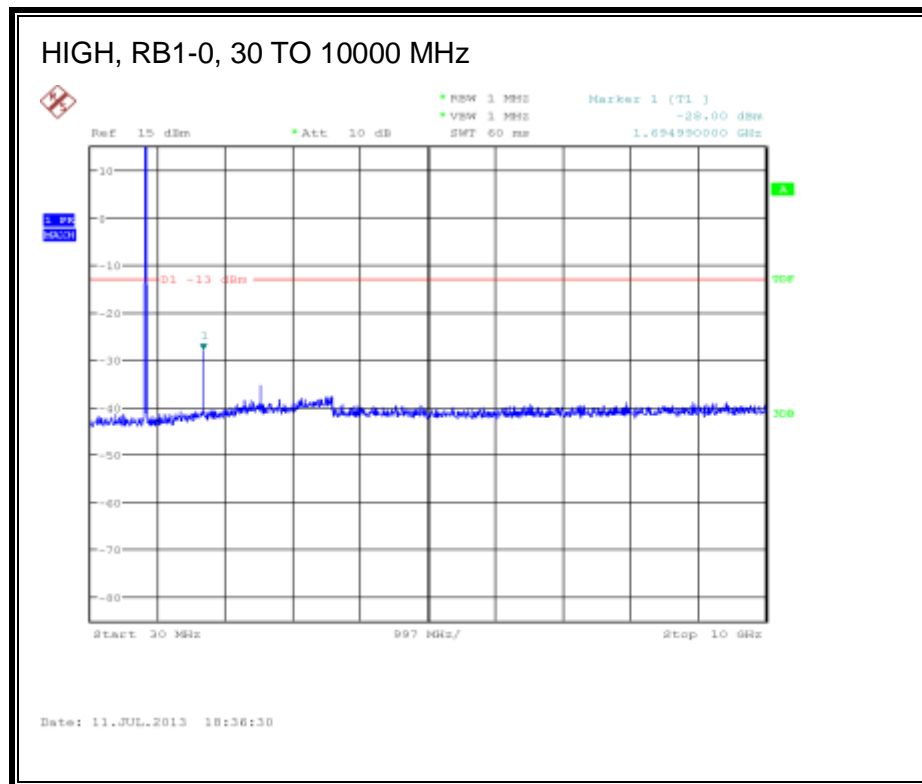
LTE QPSK (1.4 MHz BAND WIDTH)





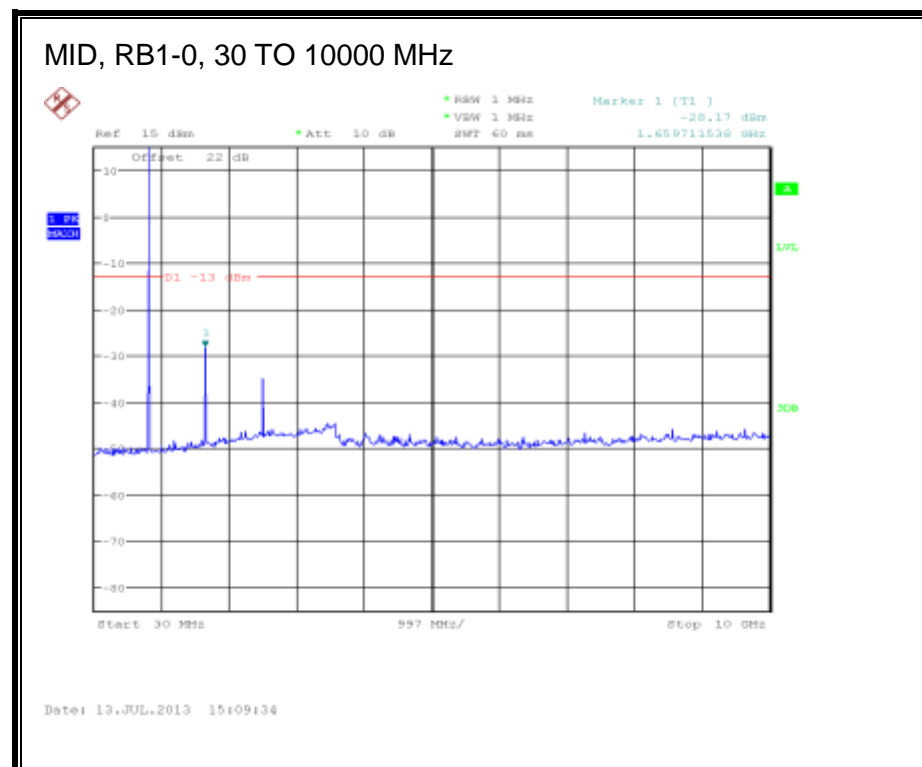
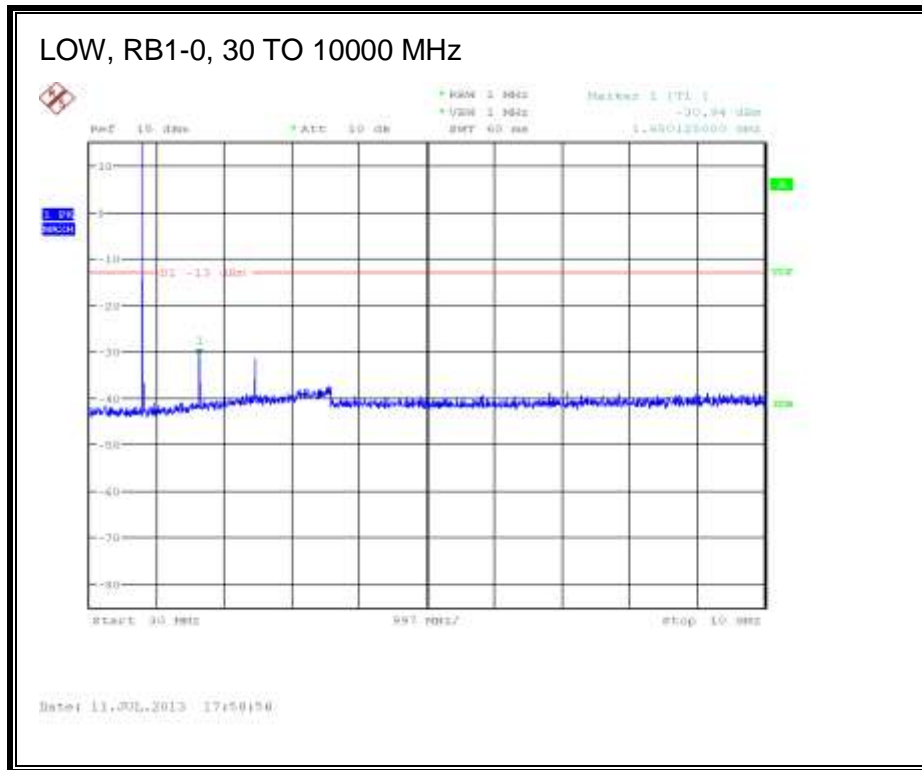
LTE 16QAM

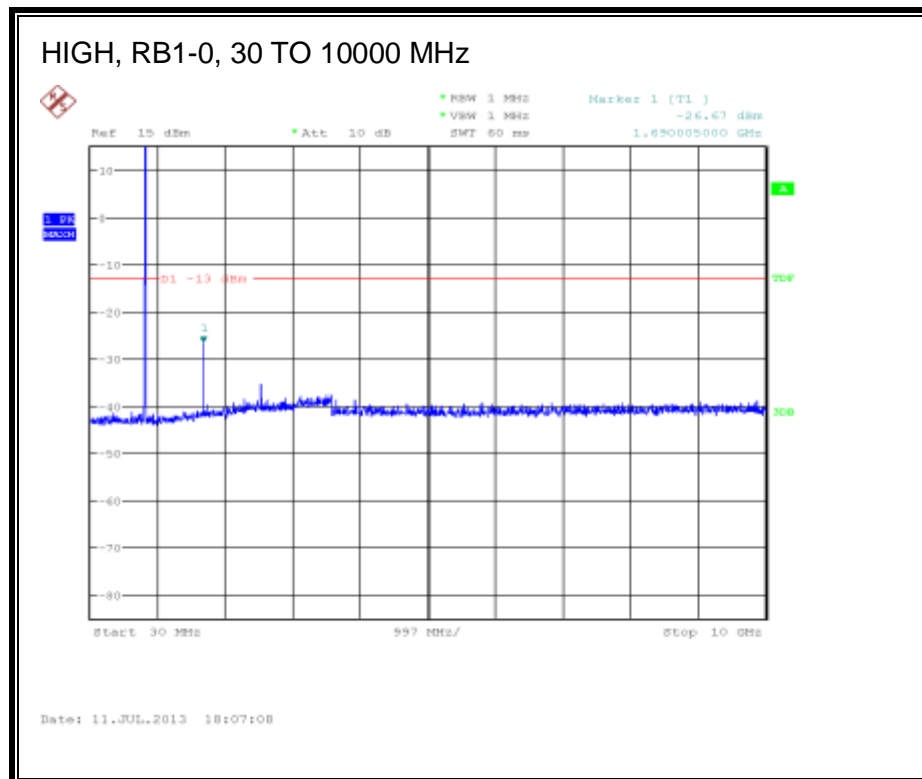




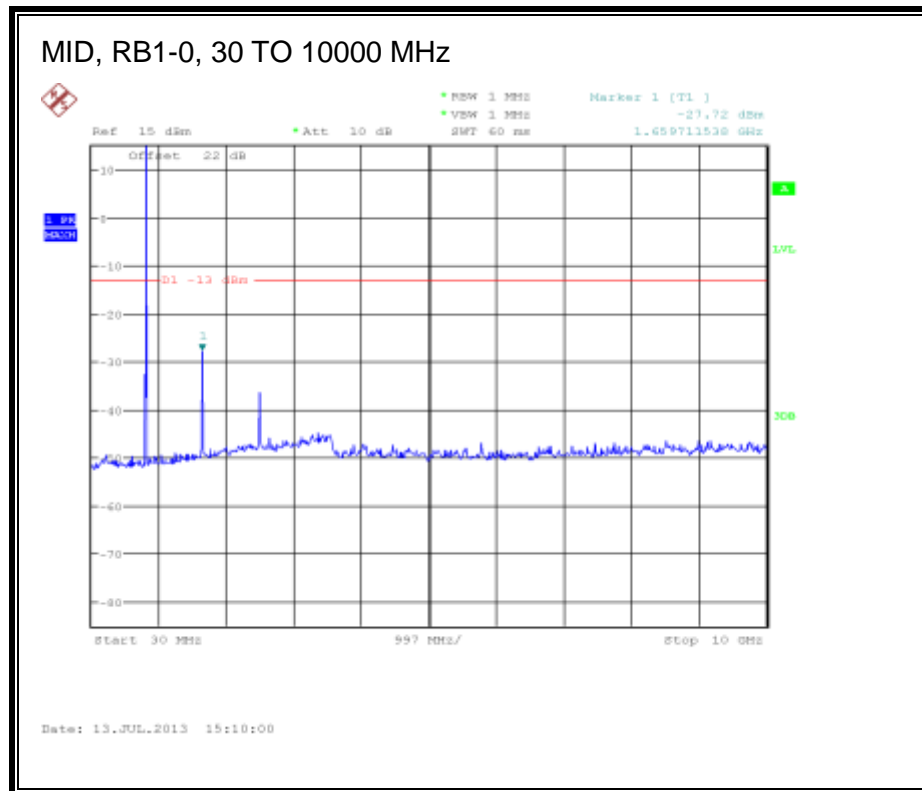
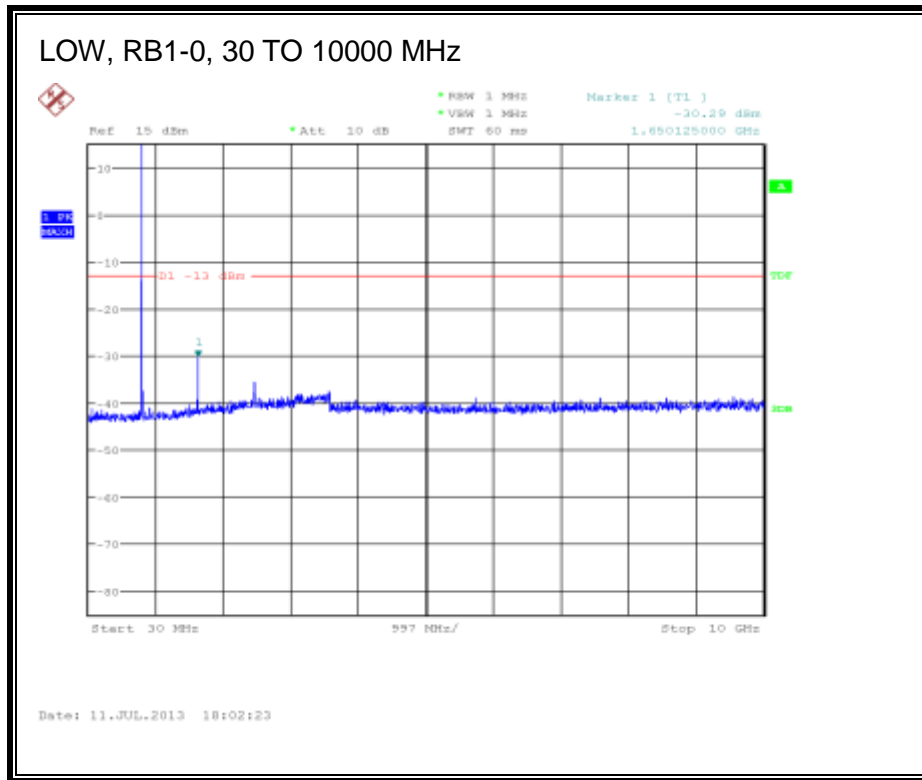
Band 5 (3.0 MHz BAND WIDTH)

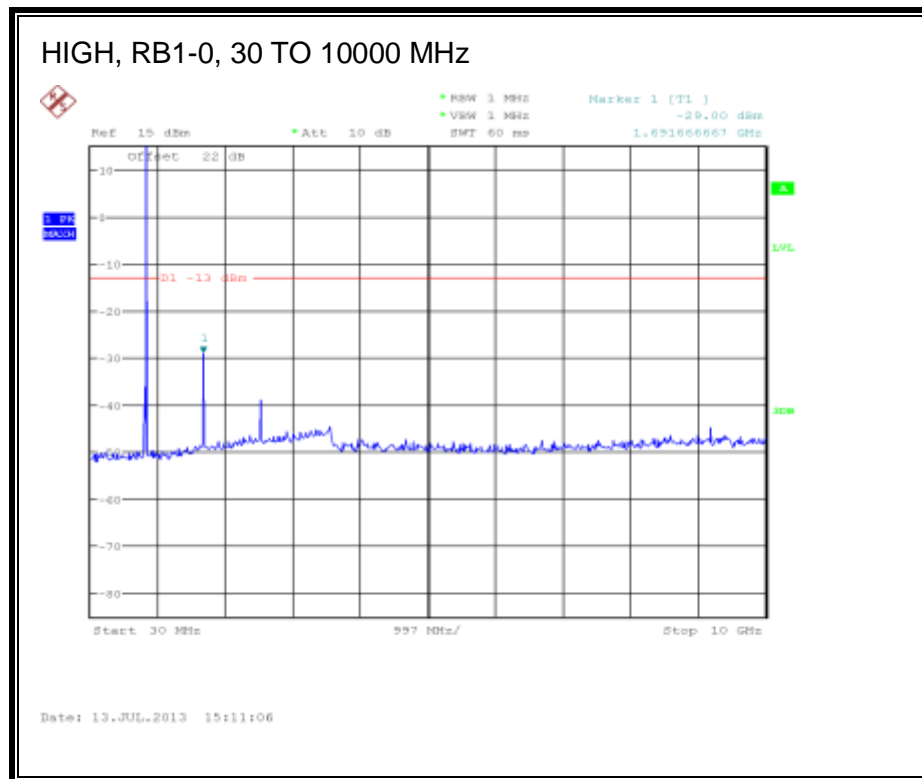
LTE QPSK





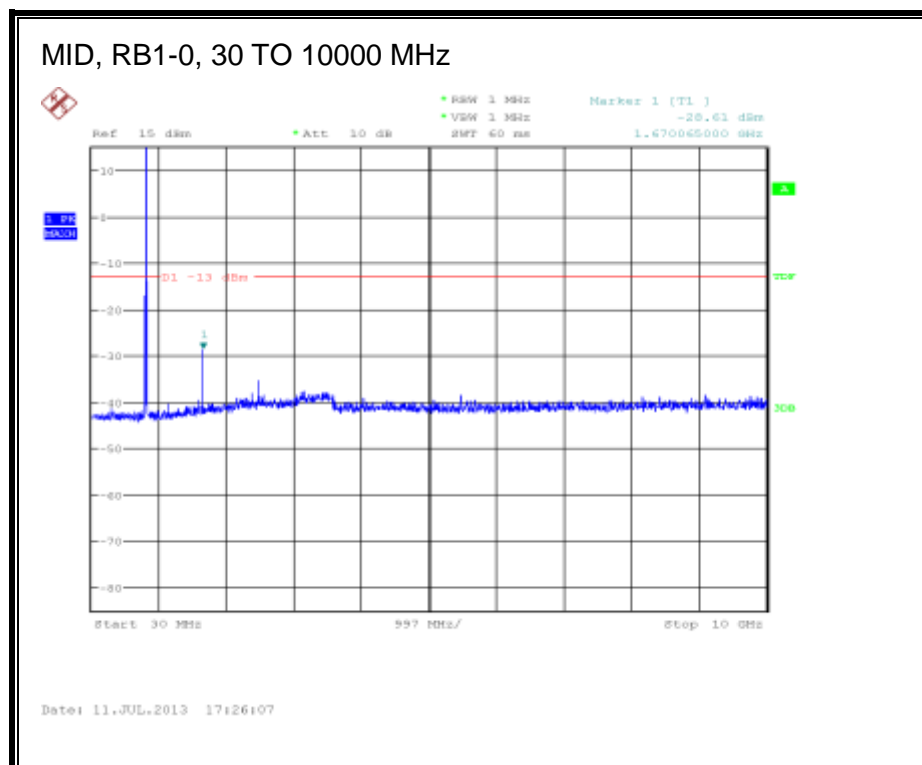
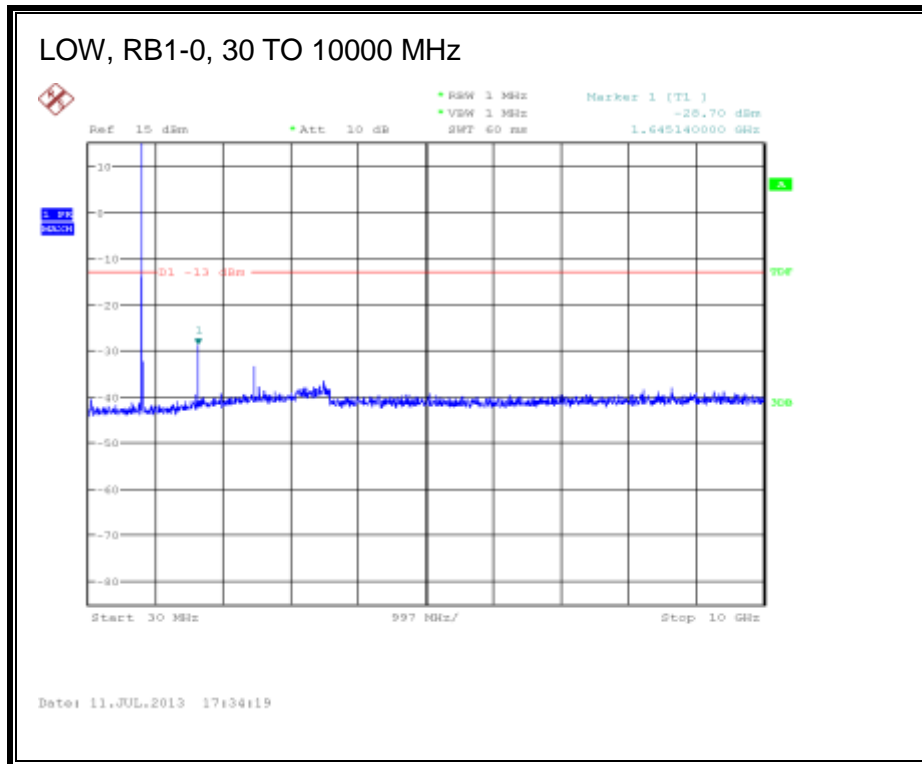
LTE 16QAM

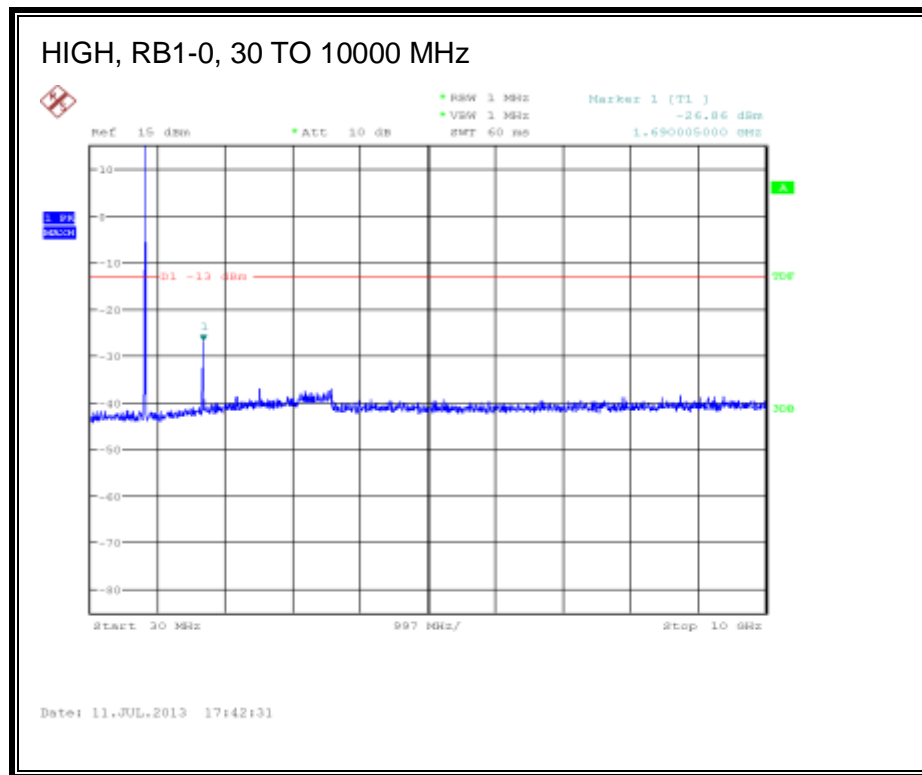




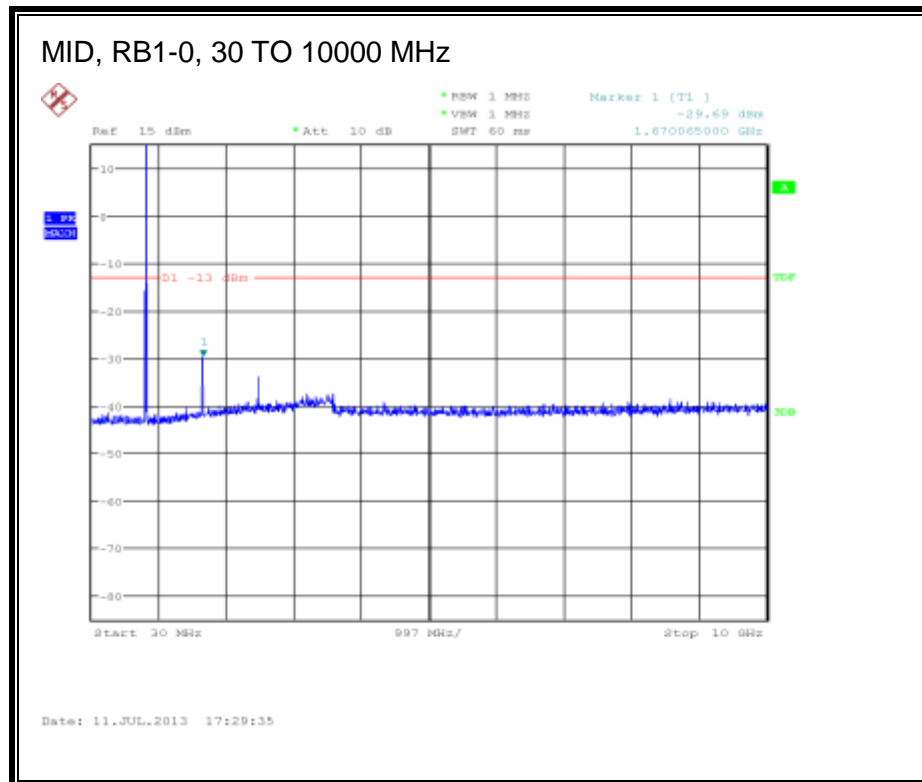
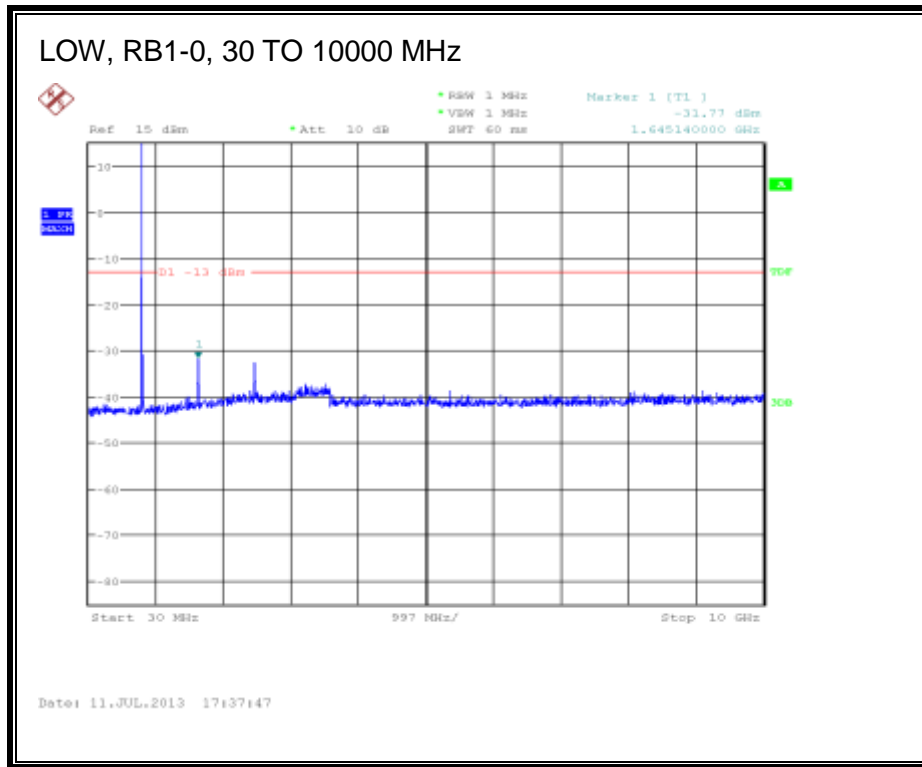
Band 5 (5.0 MHz BAND WIDTH)

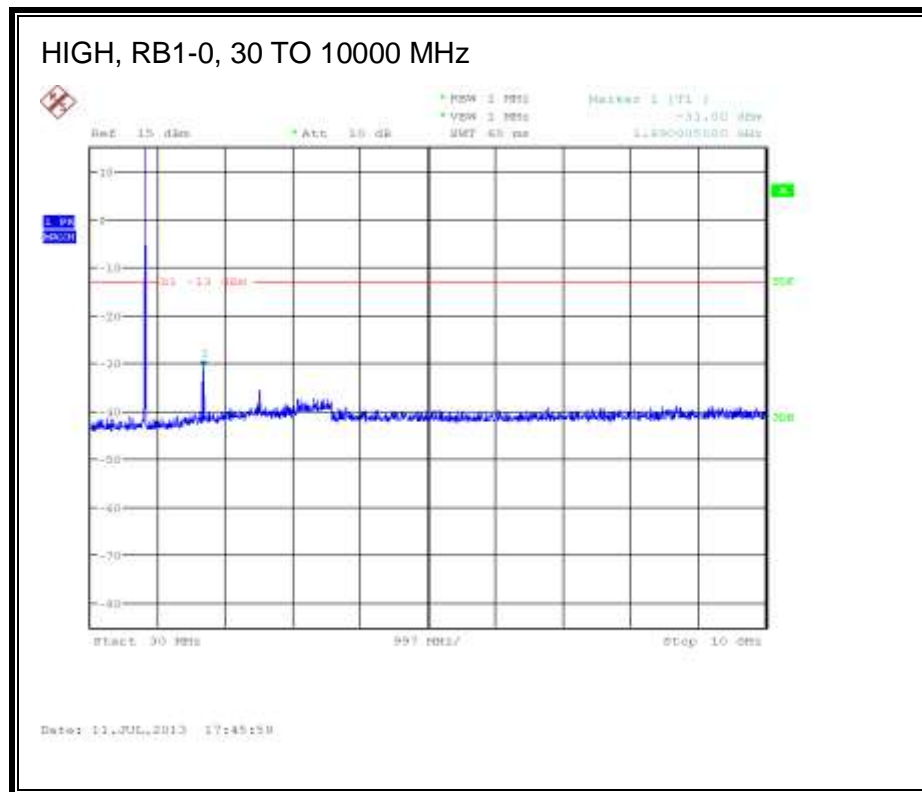
LTE QPSK





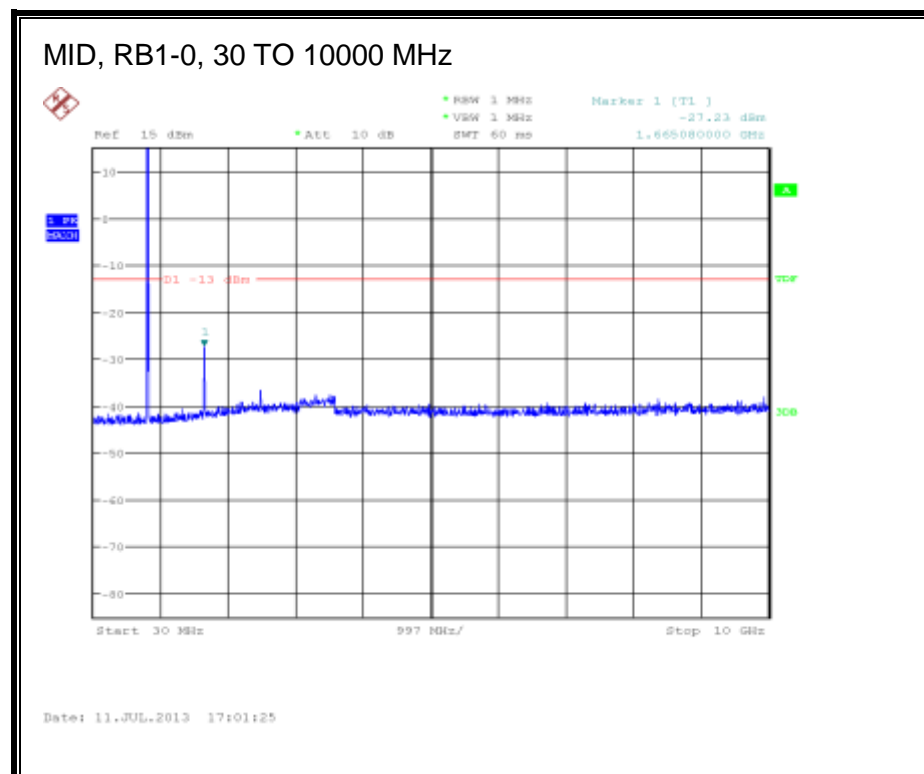
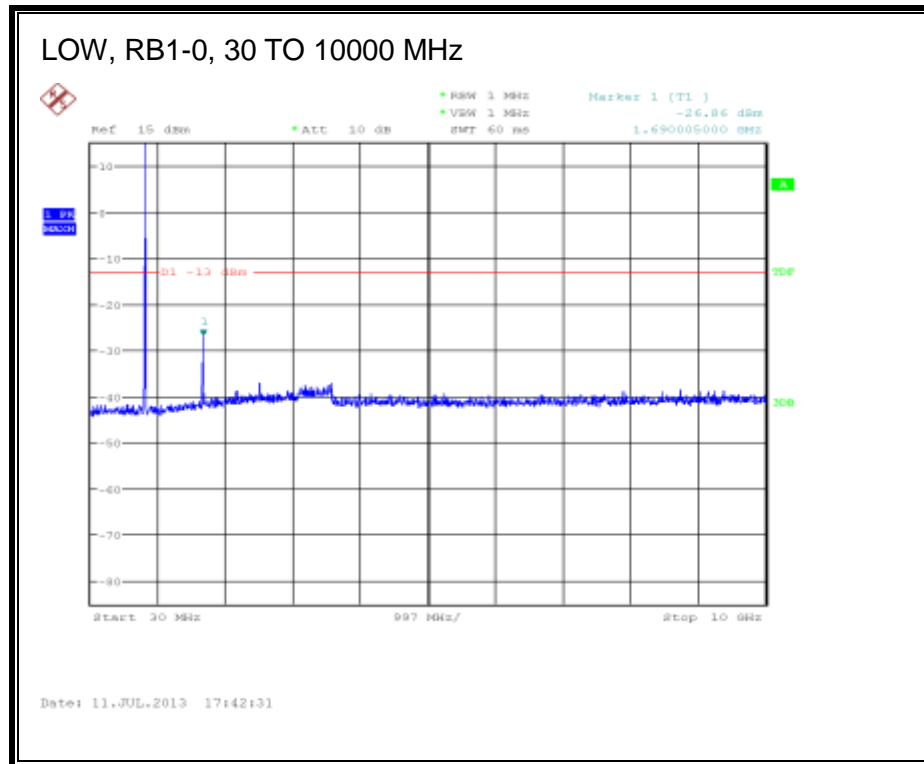
LTE 16QAM





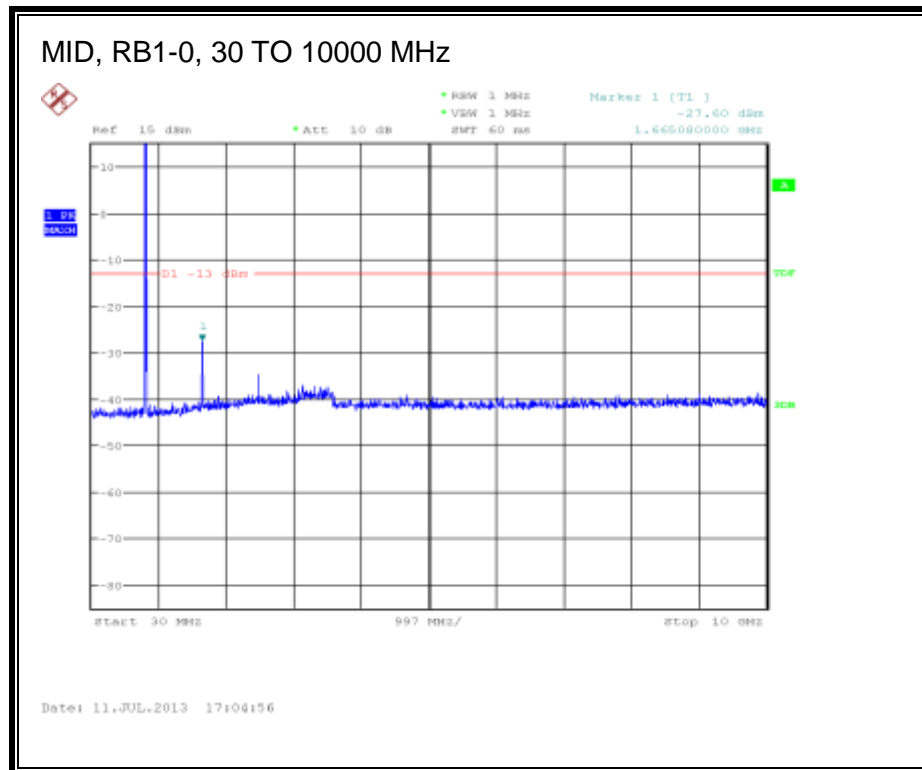
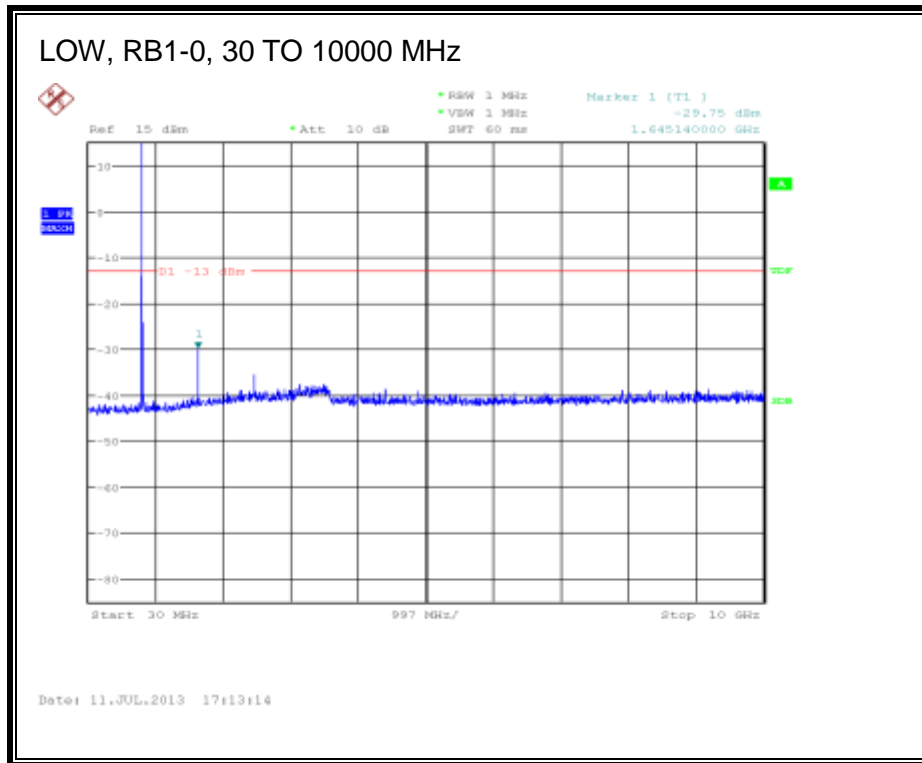
Band 5 (10.0 MHz BAND WIDTH)

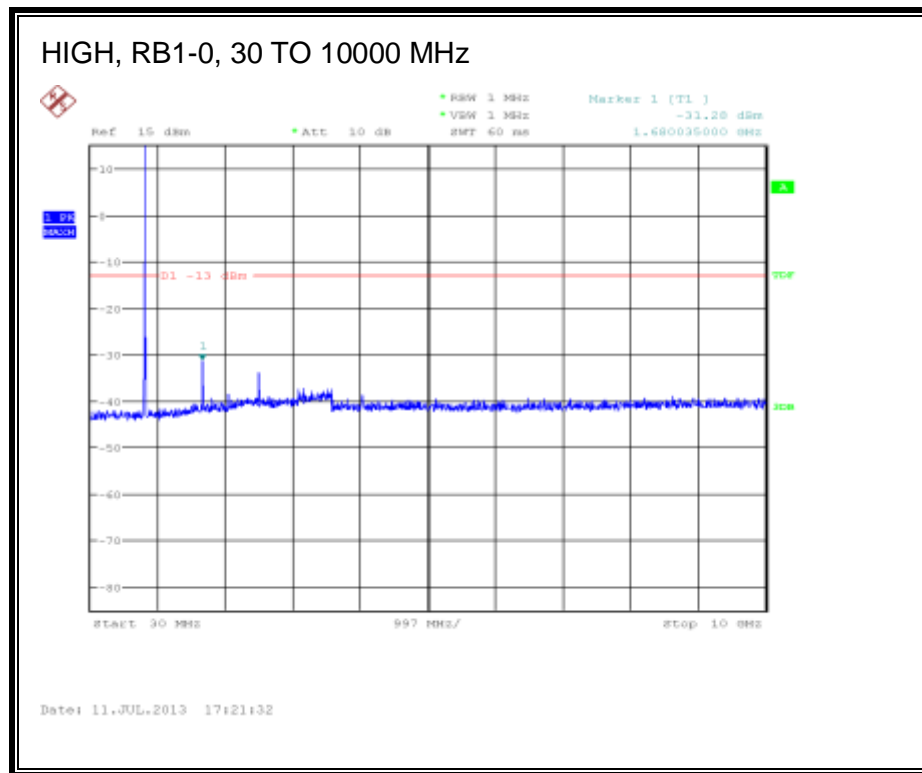
LTE QPSK





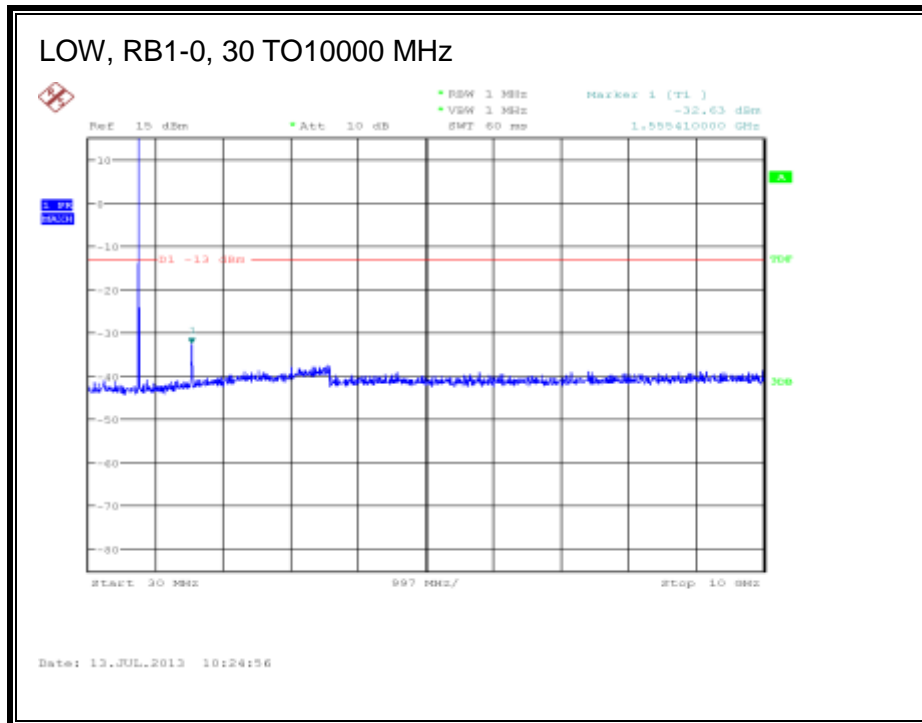
LTE 16QAM



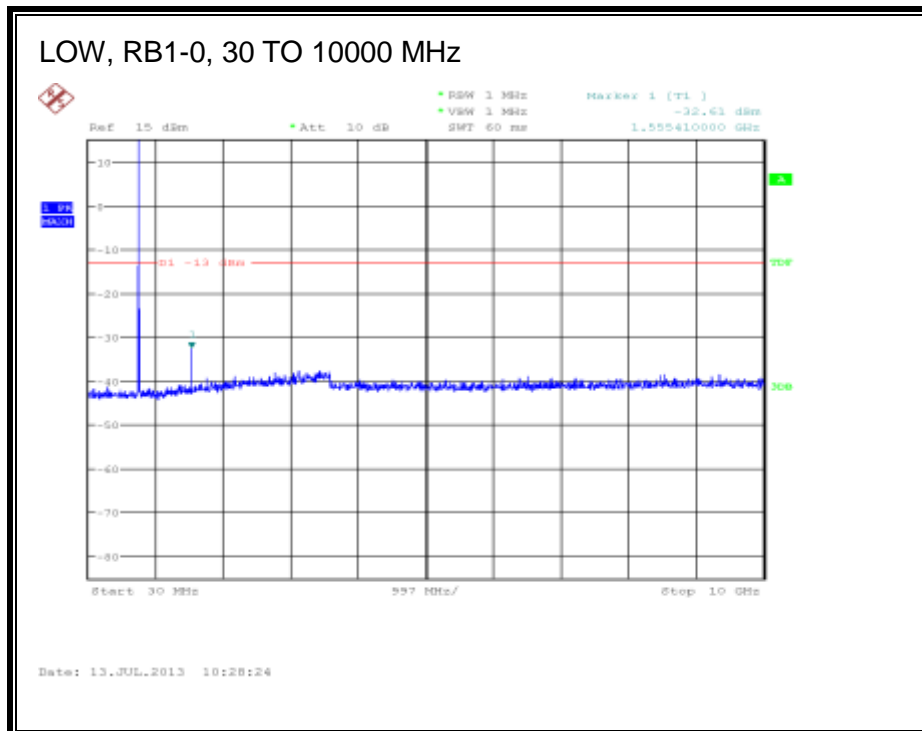


8.3.4. LTE BAND 13

779.5MHz LTE QPSK (5.0 MHz BAND WIDTH)

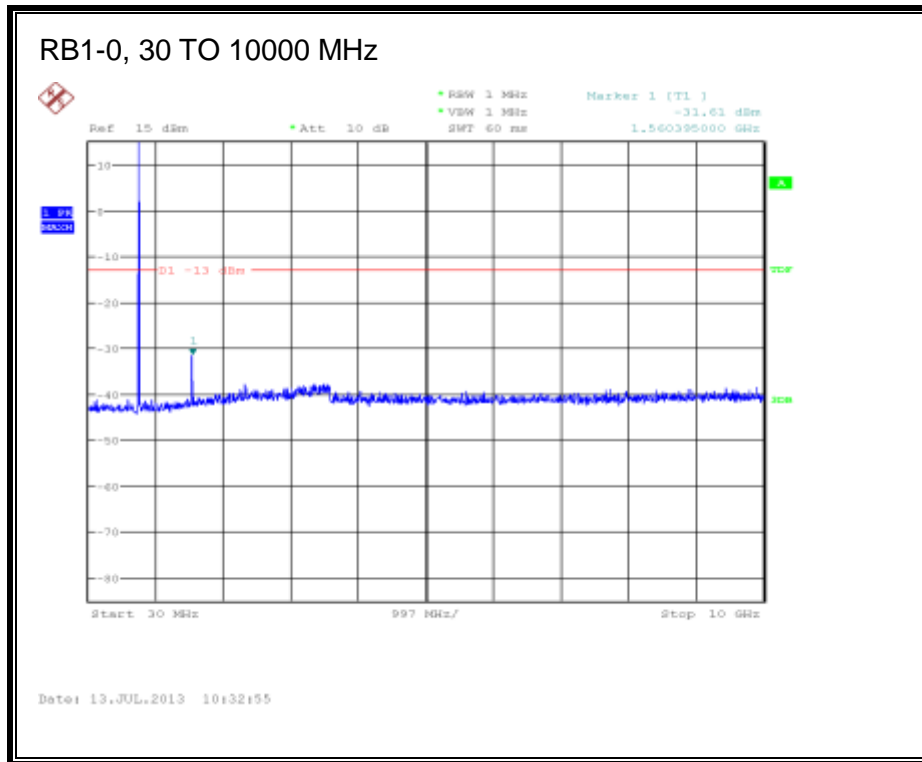


LTE 16QAM

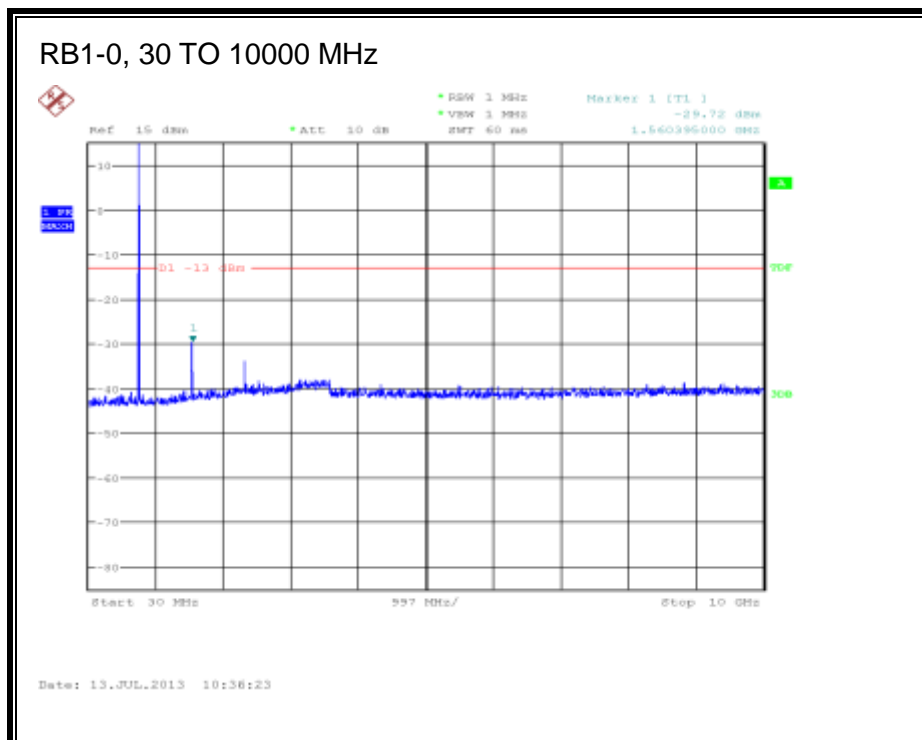


782MHz (5.0 MHz BAND WIDTH)

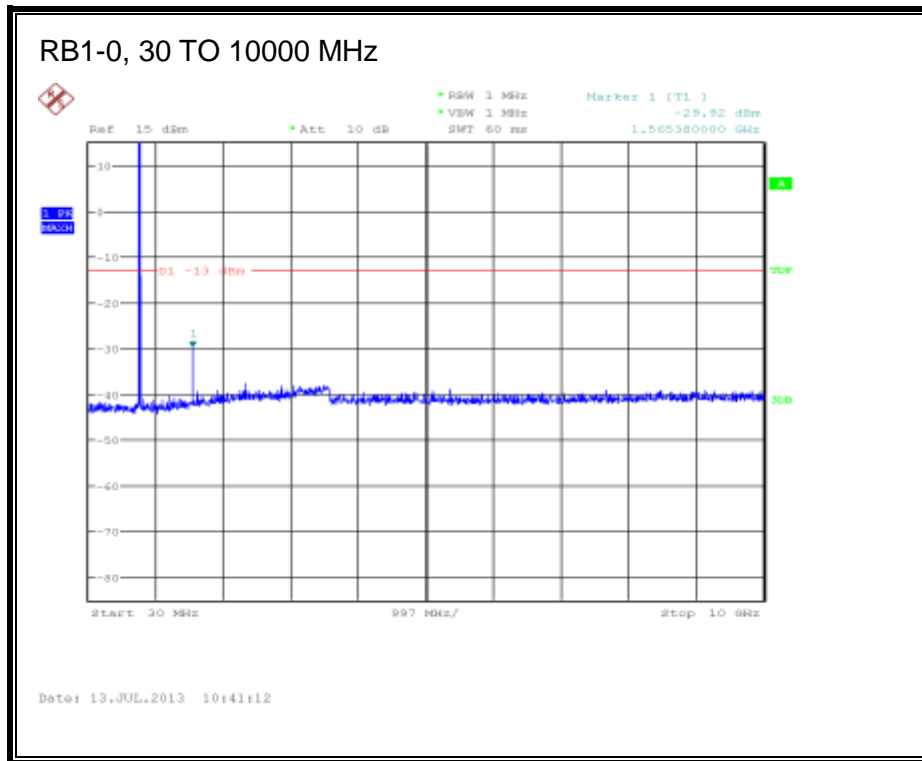
LTE QPSK



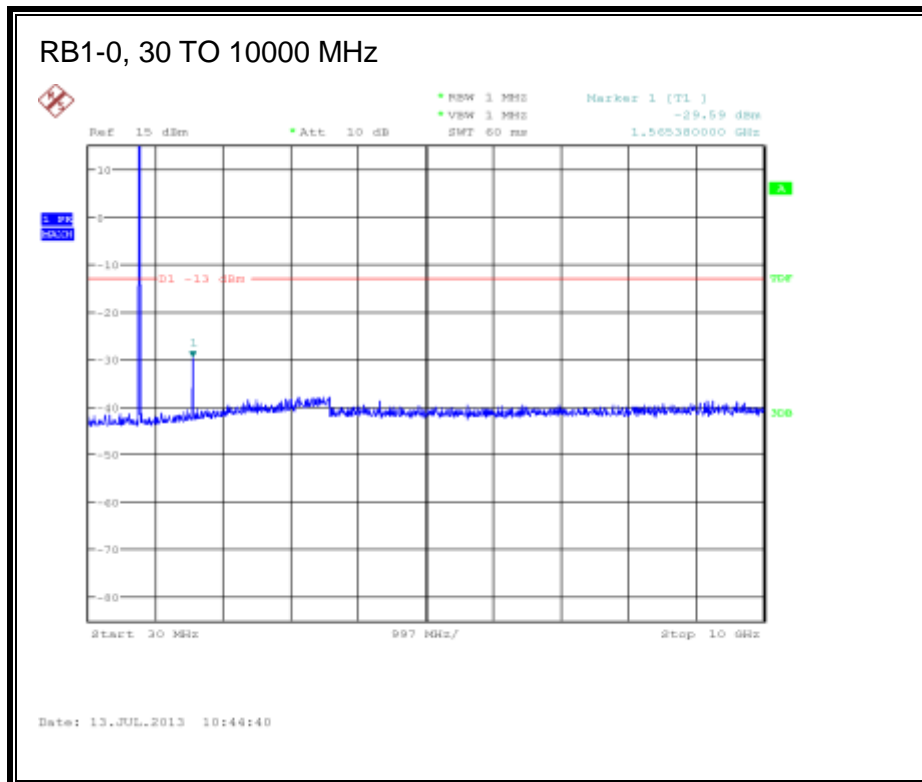
LTE 16QAM



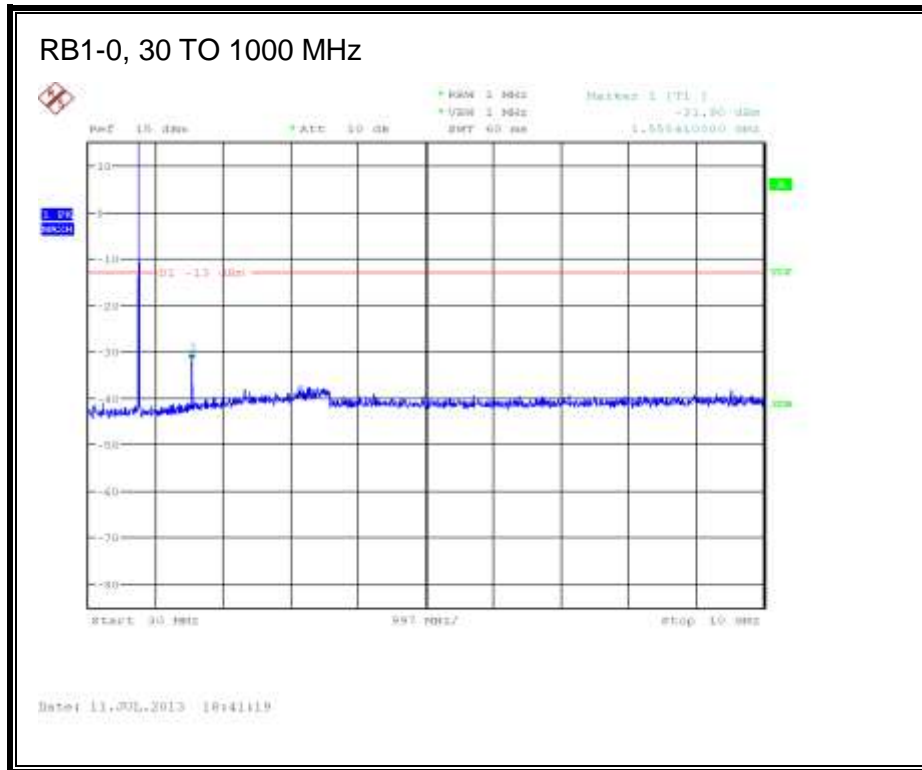
LTE QPSK Band 13, 784.5MHz (5MHz Bandwidth)



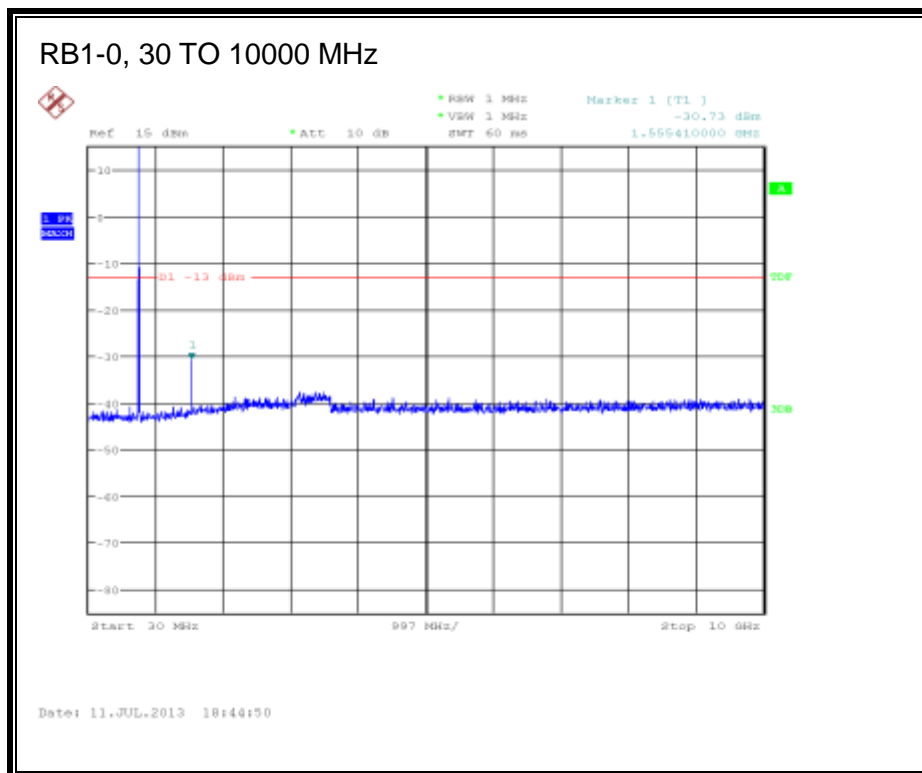
LTE 16QAM



LTE QPSK Band 13, 782MHz (10MHz Bandwidth)

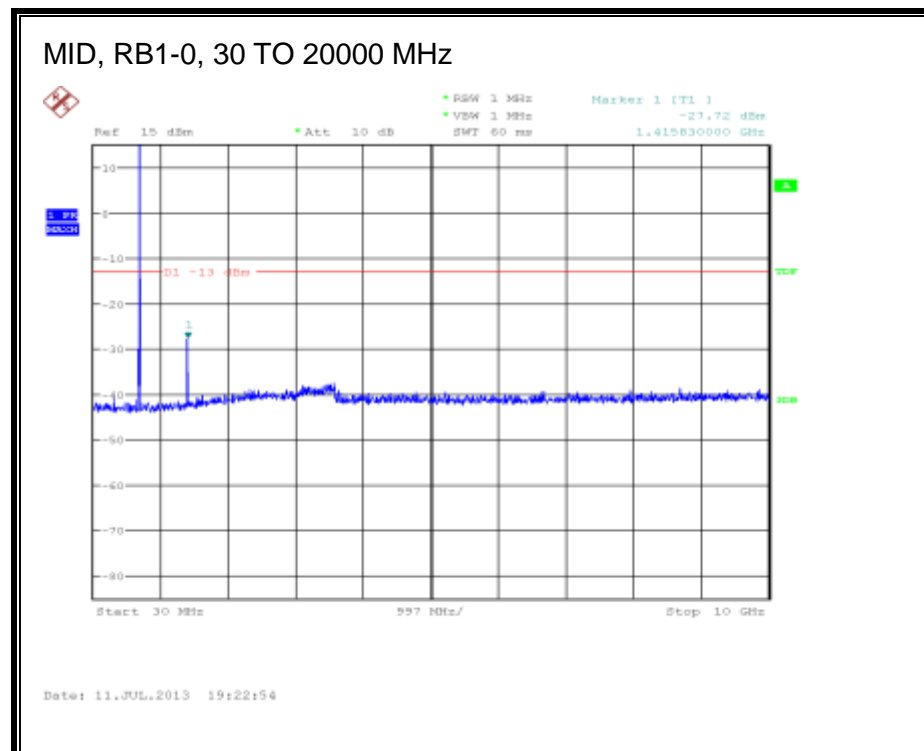
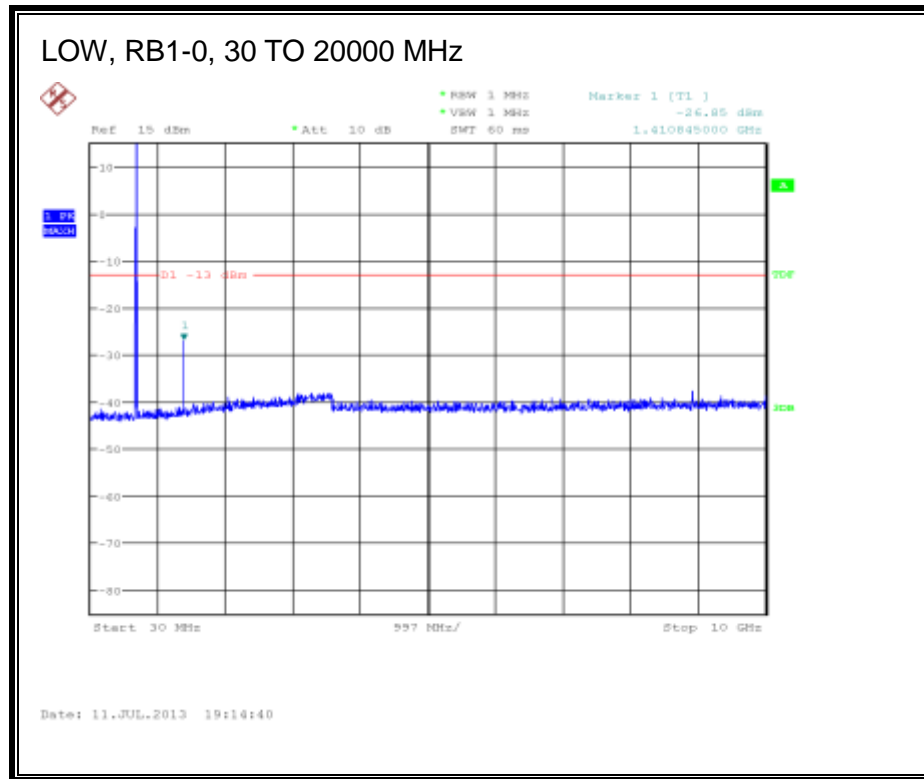


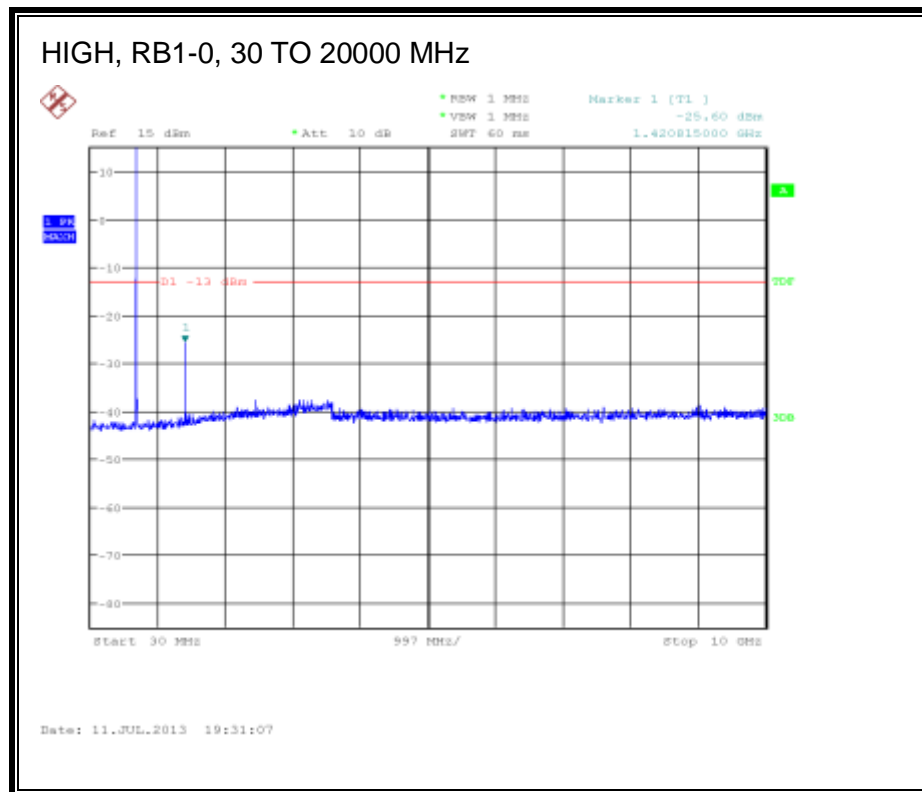
LTE 16QAM Band 13, 782MHz (10MHz Bandwidth)



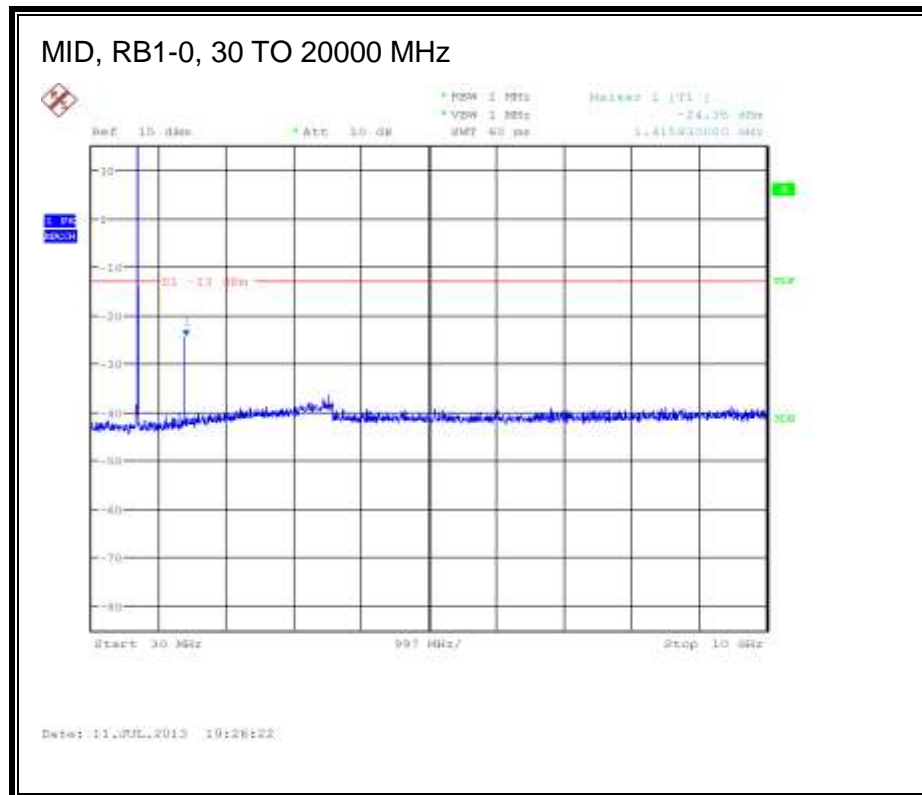
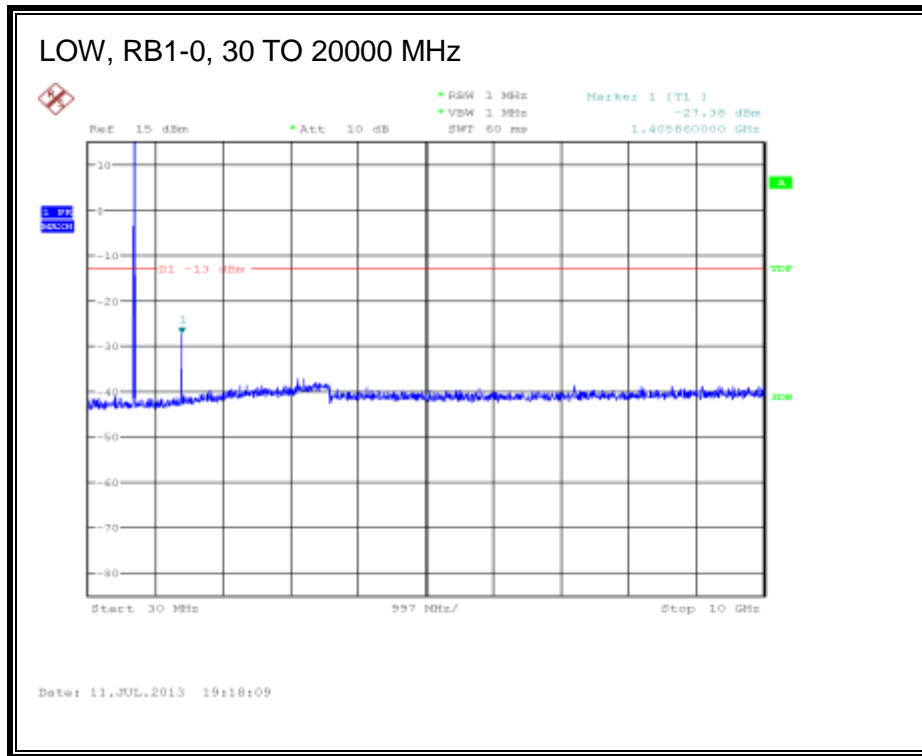
8.3.5. LTE BAND 17

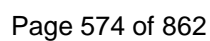
LTE QPSK (5.0 MHz BAND WIDTH)





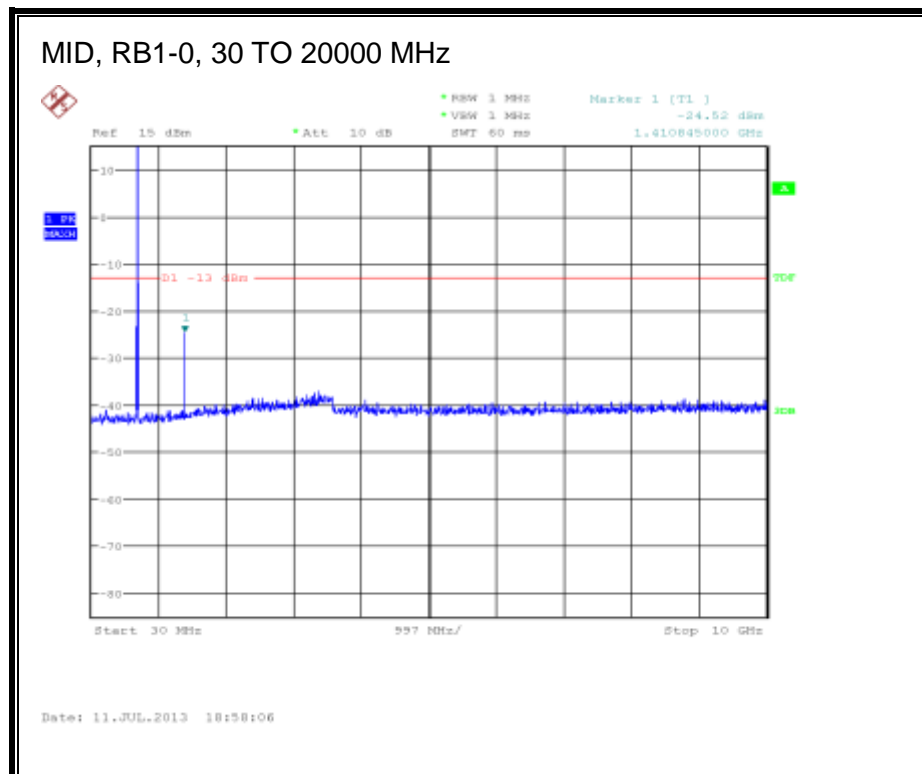
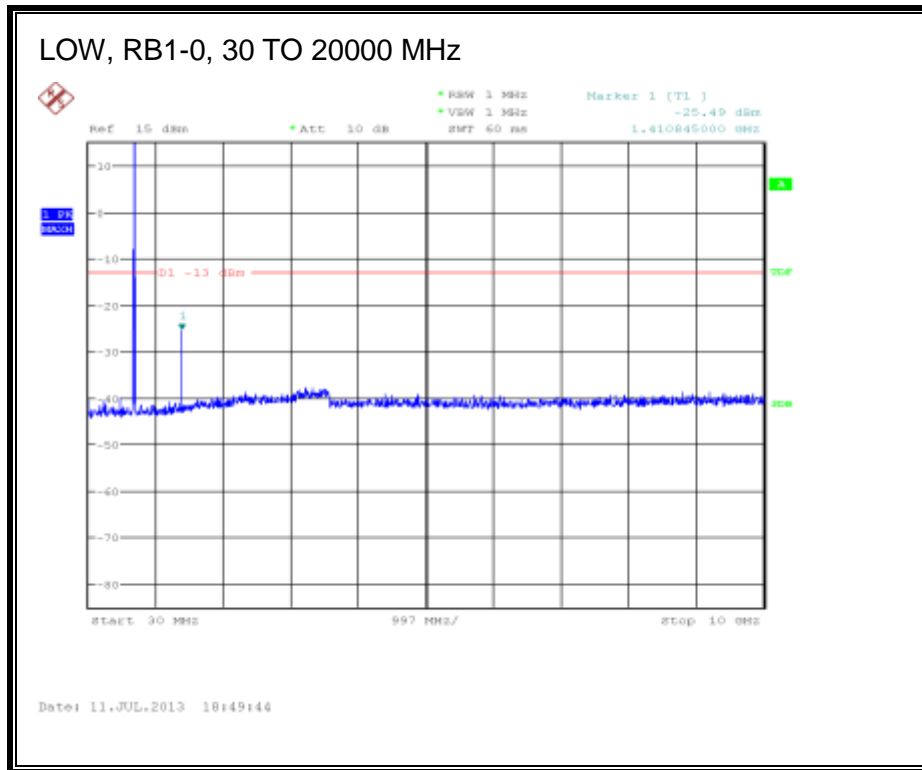
LTE 16QAM

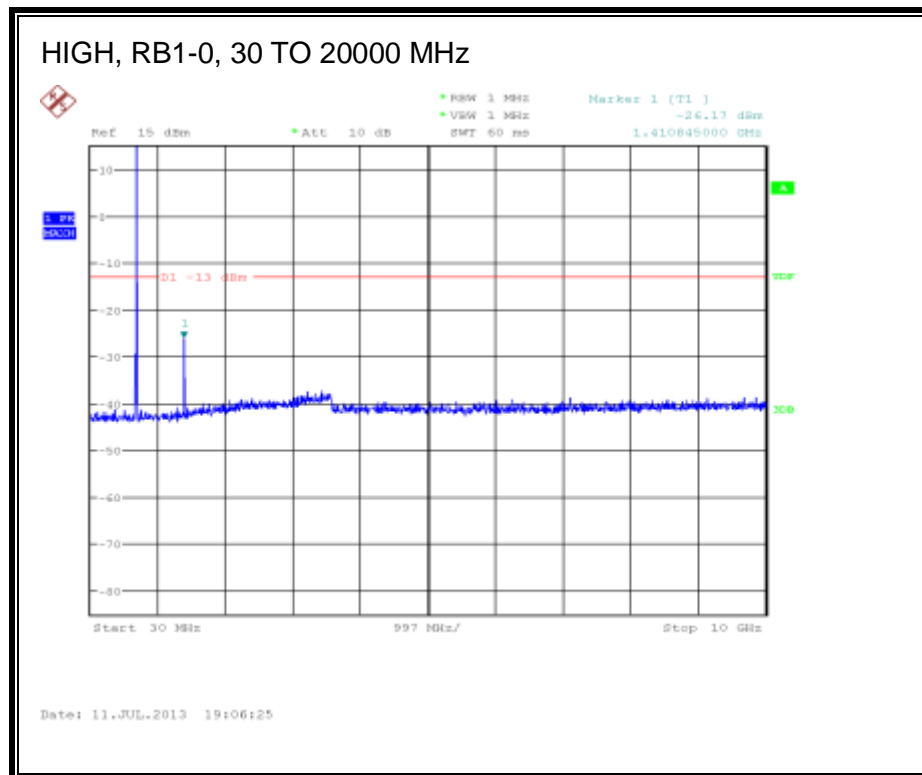




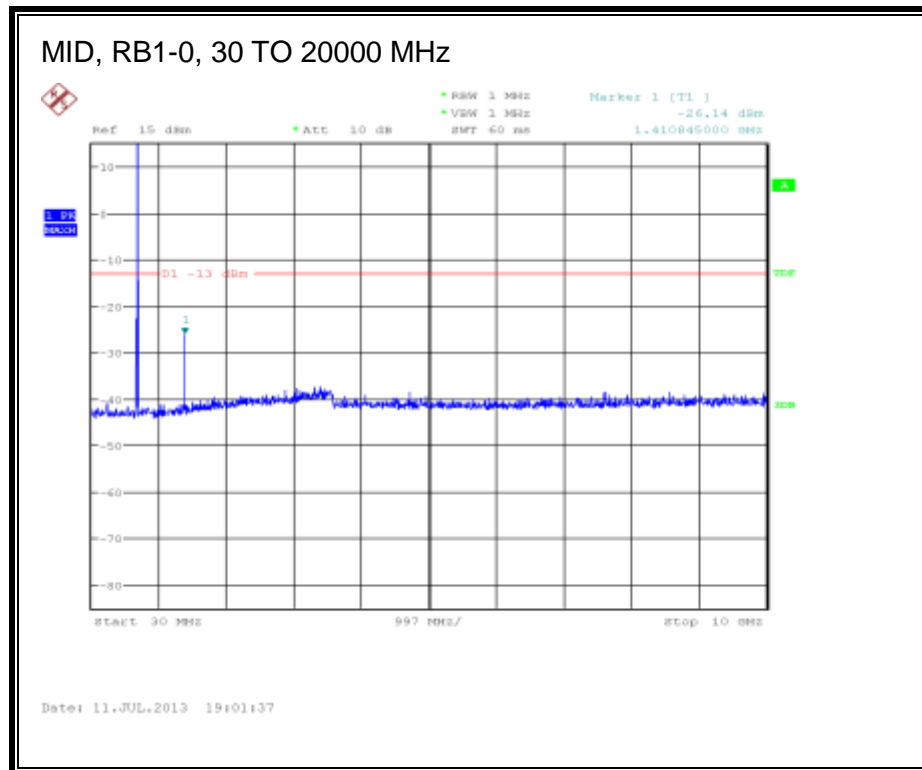
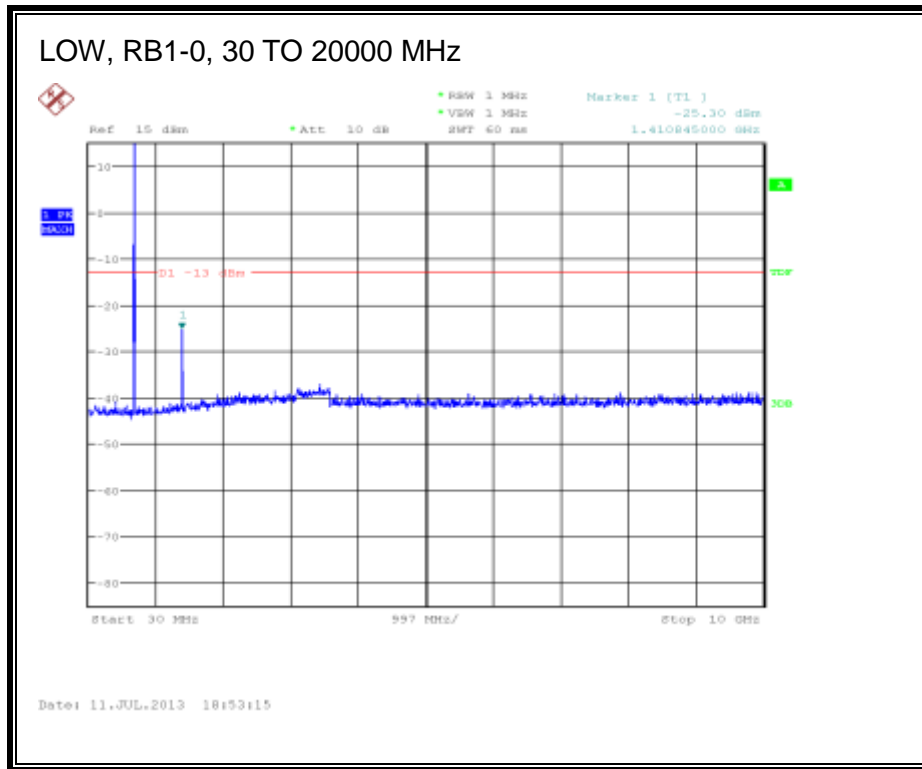
Band 17 (10.0 MHz BAND WIDTH)

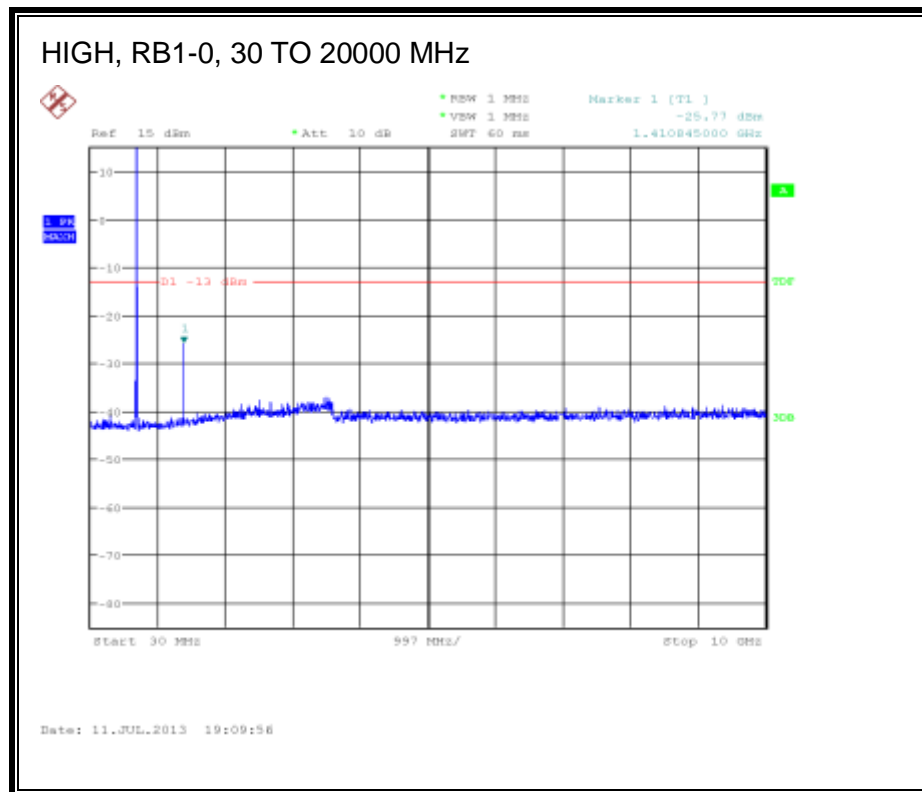
LTE QPSK





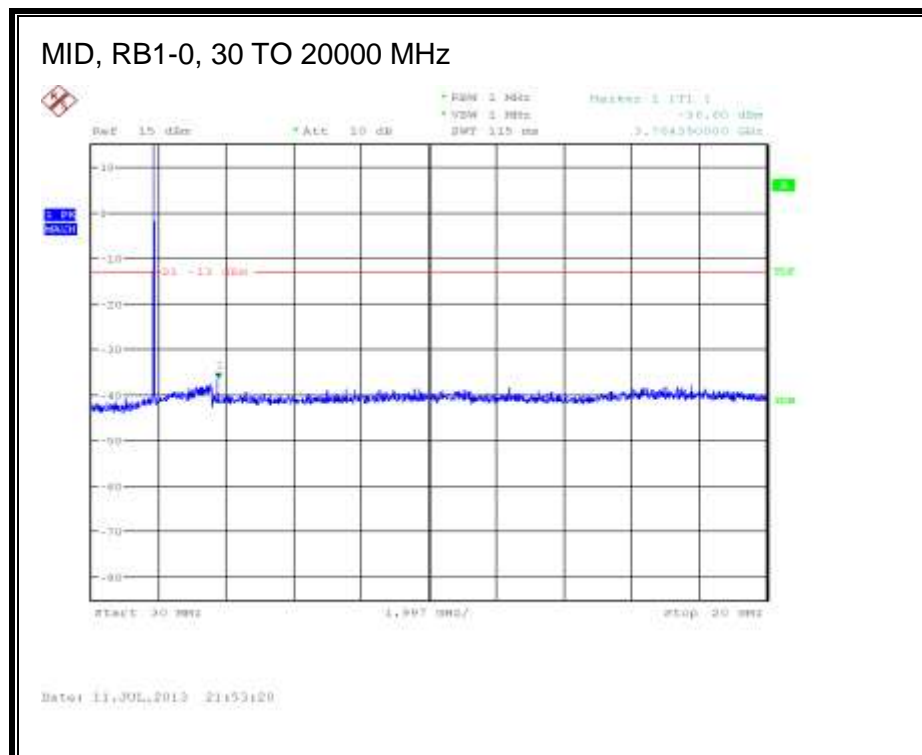
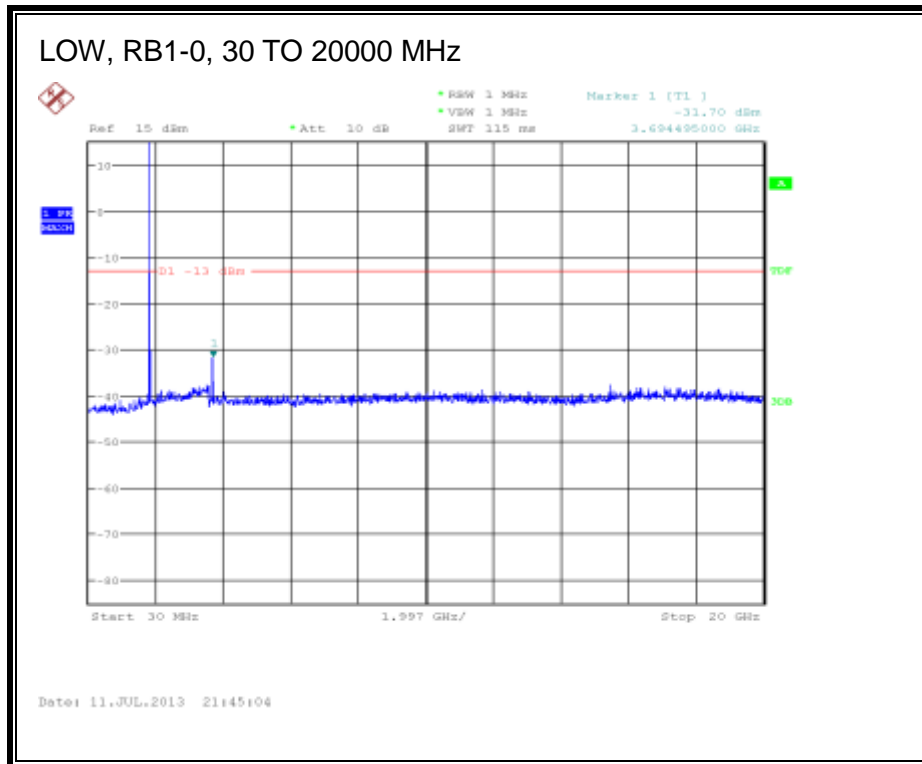
LTE 16QAM

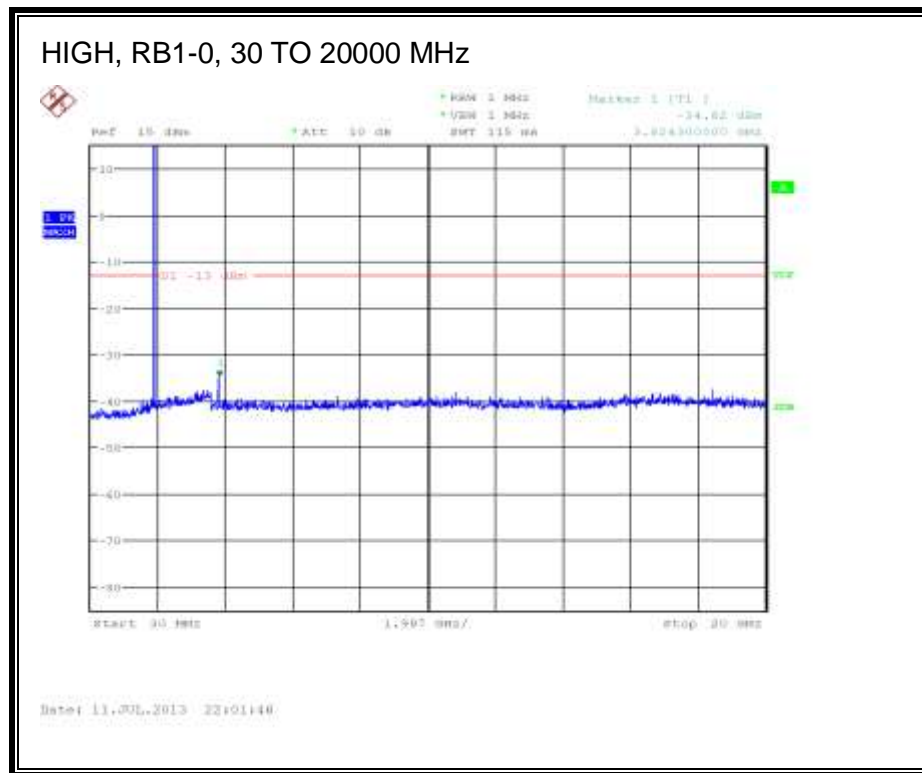




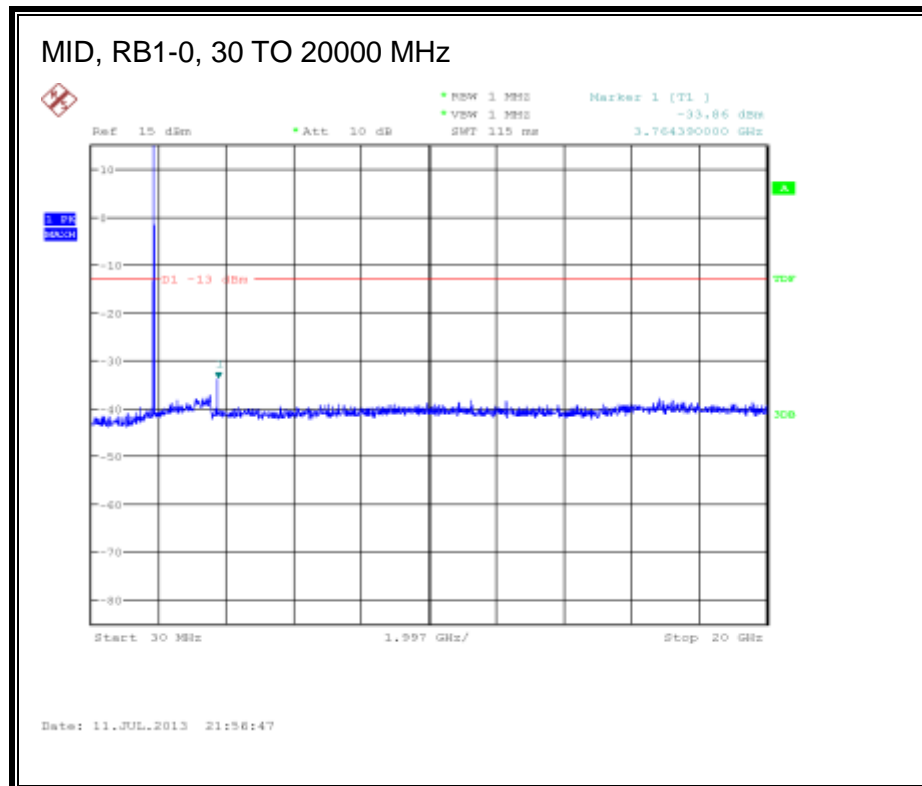
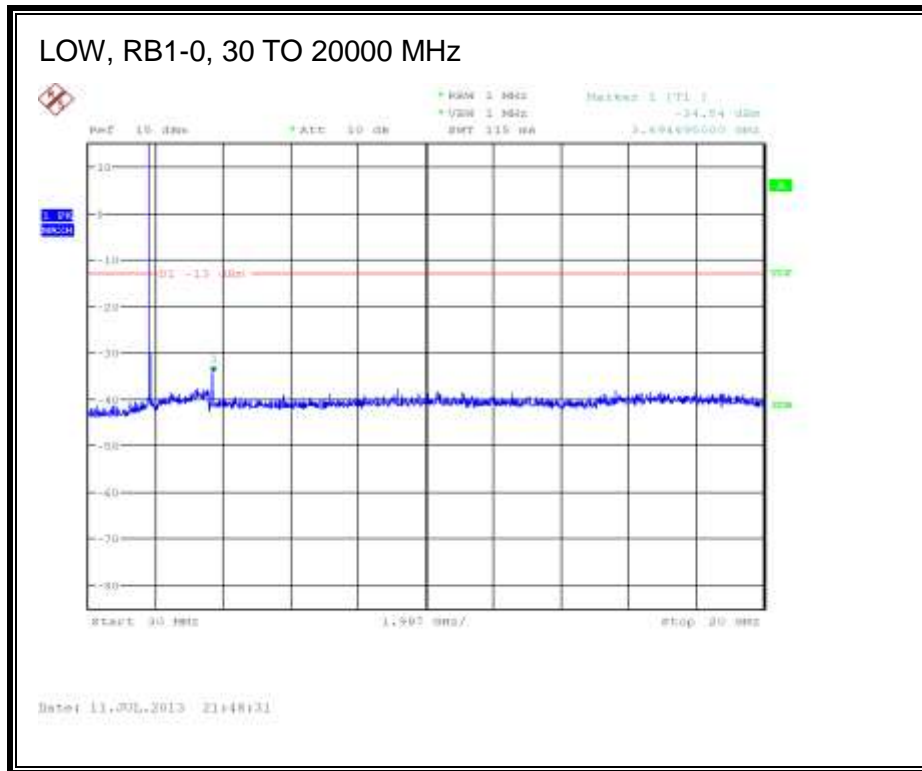
8.3.6. LTE BAND 25

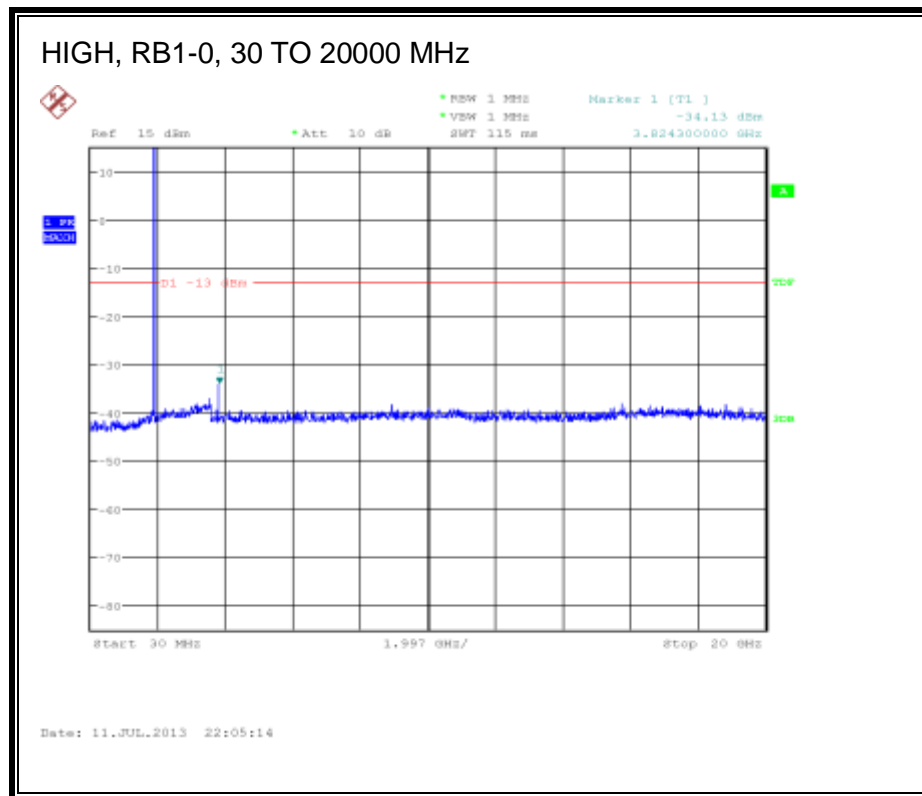
LTE QPSK (1.4 MHz BAND WIDTH)





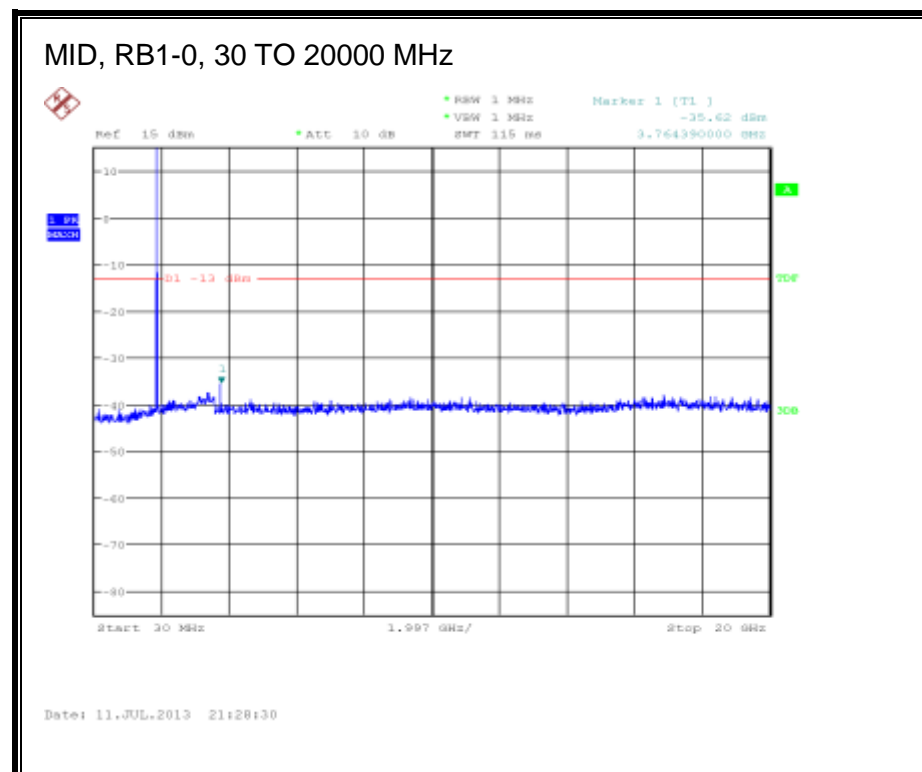
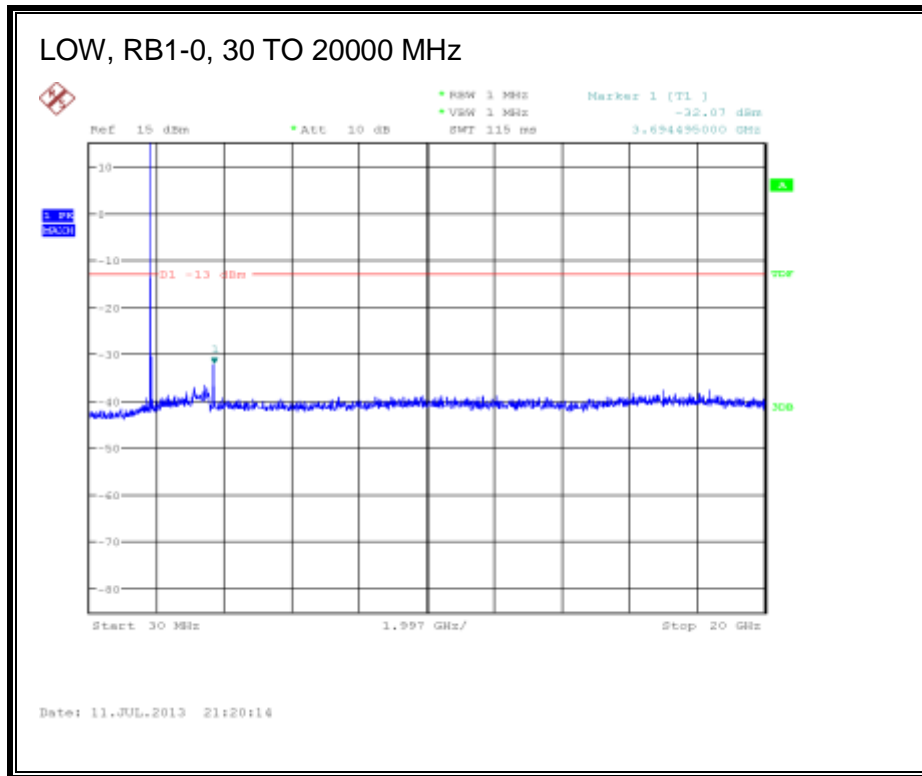
LTE 16QAM

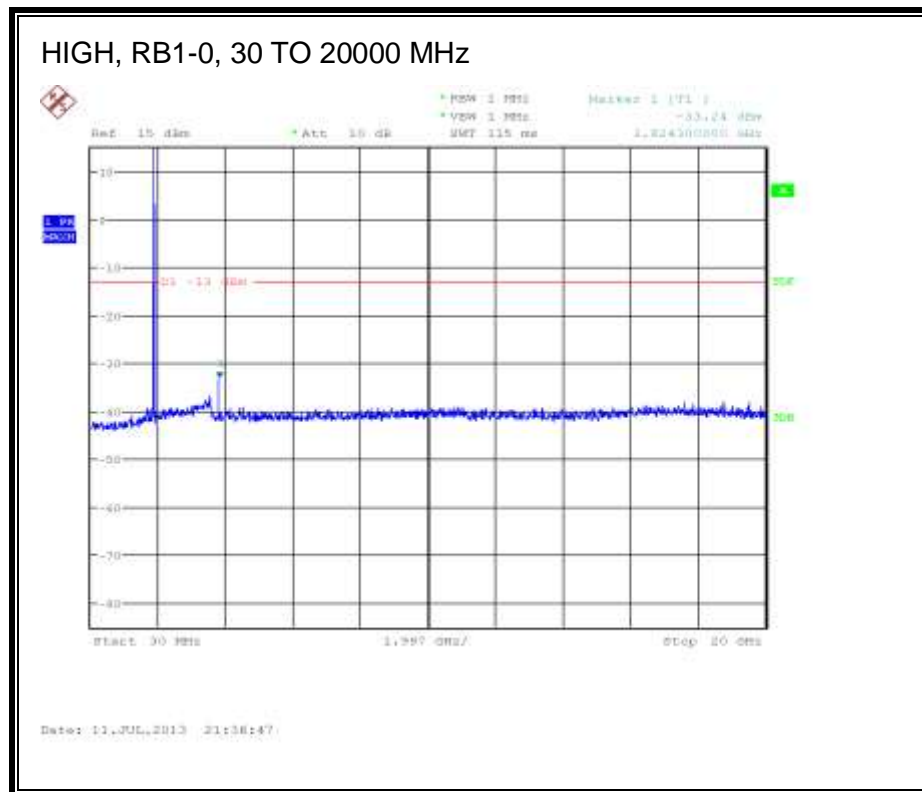




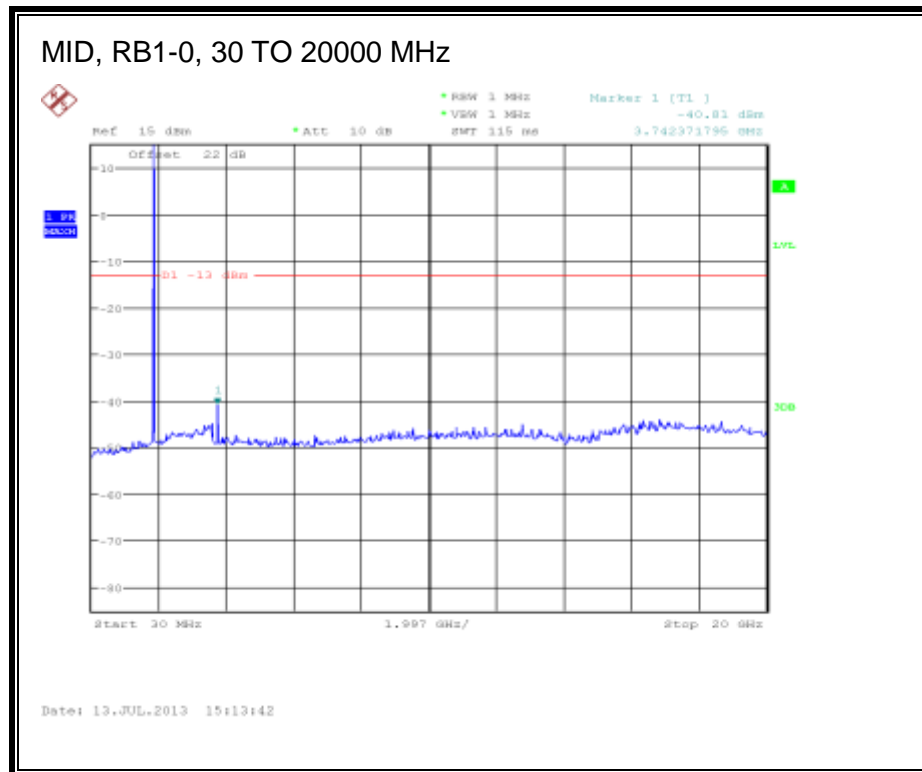
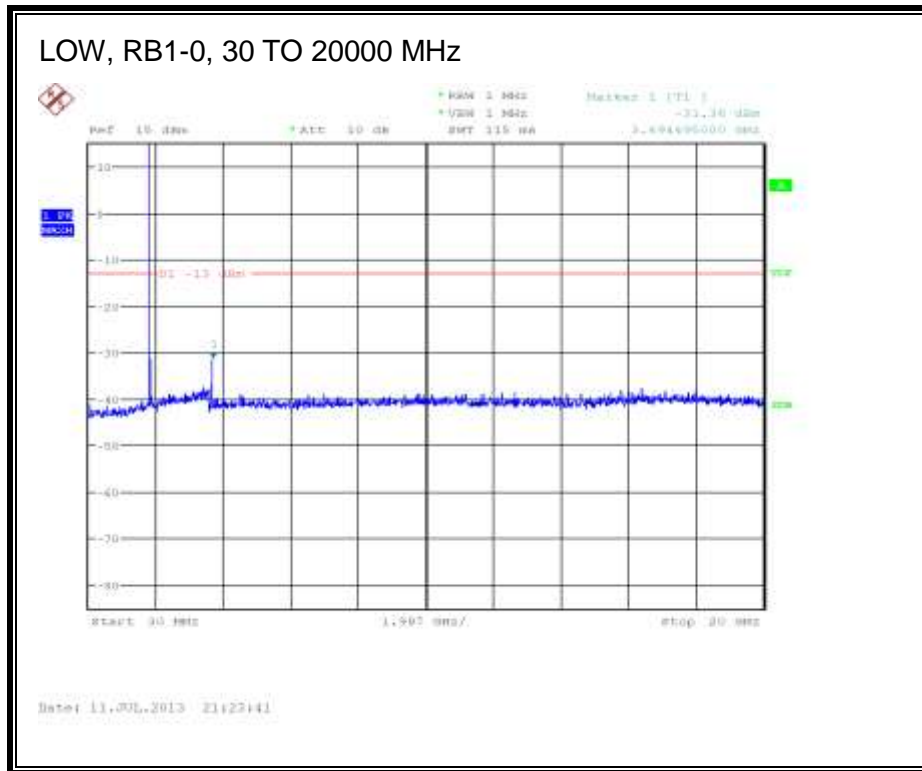
Band 25 (3.0 MHz BAND WIDTH)

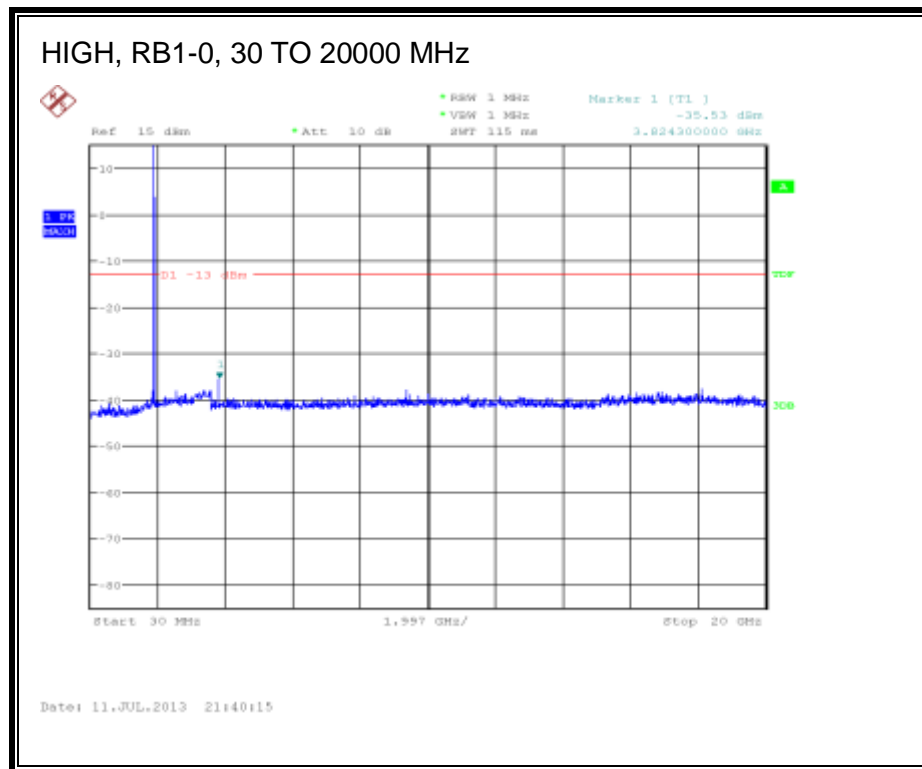
LTE QPSK





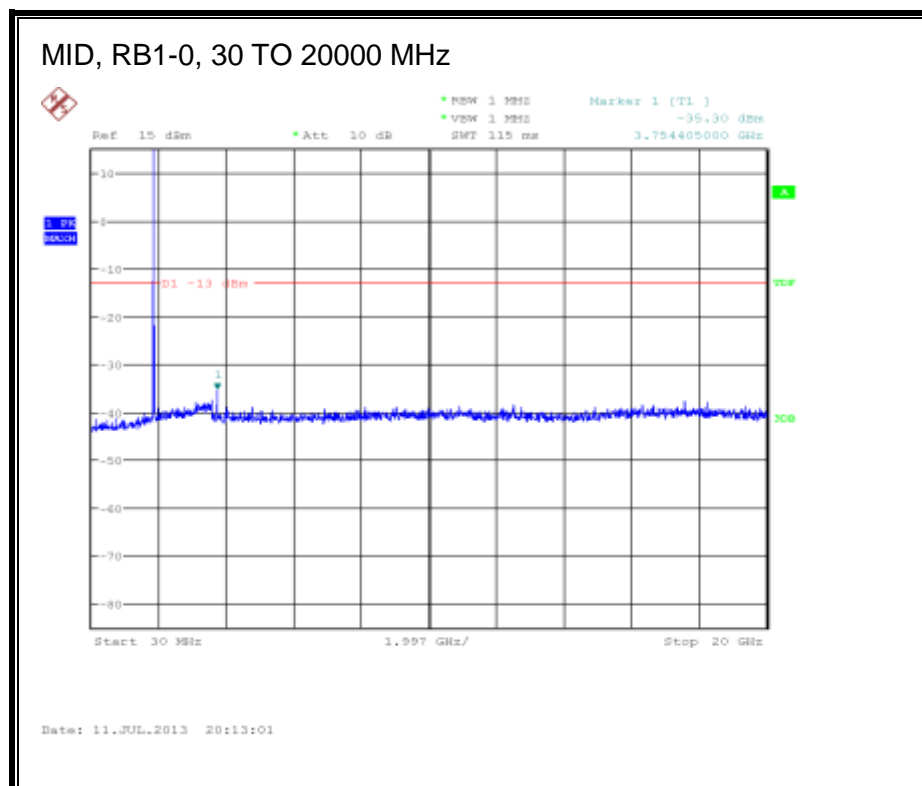
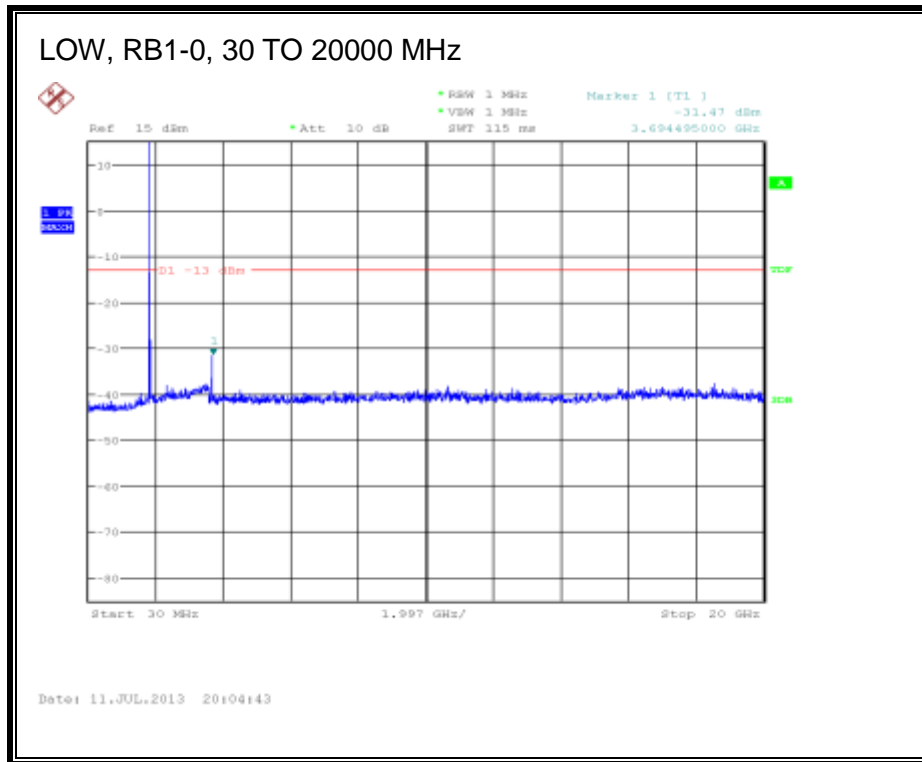
LTE 16QAM

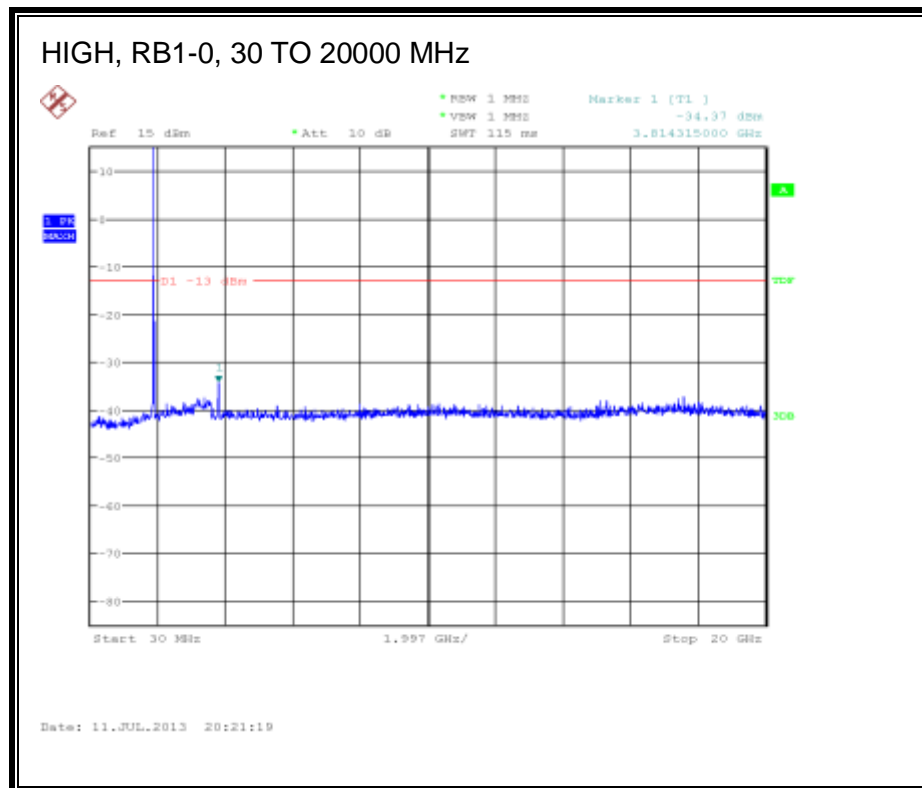




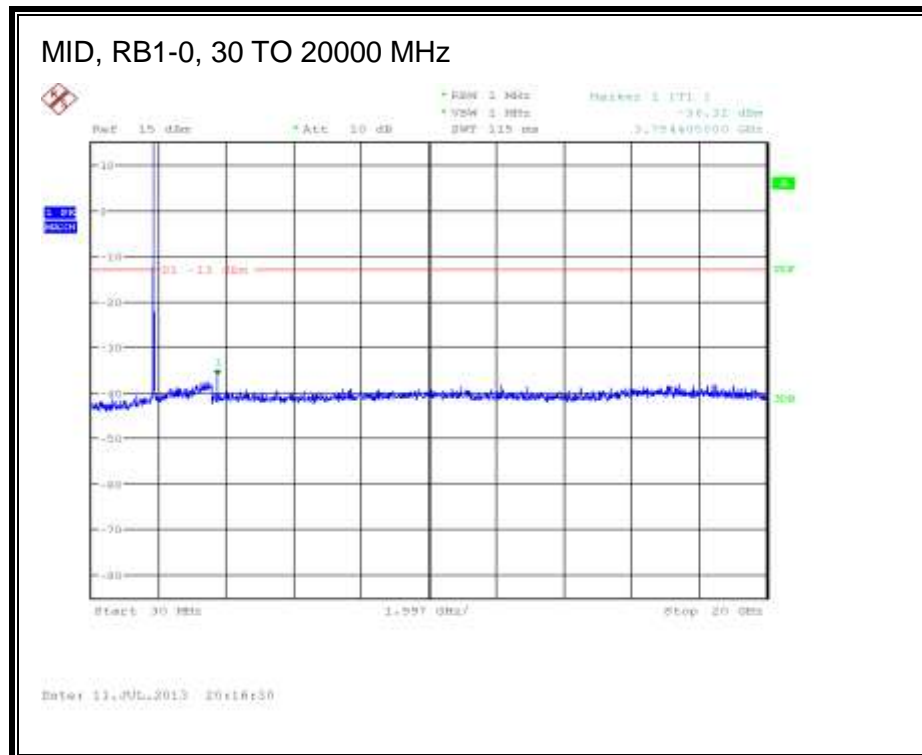
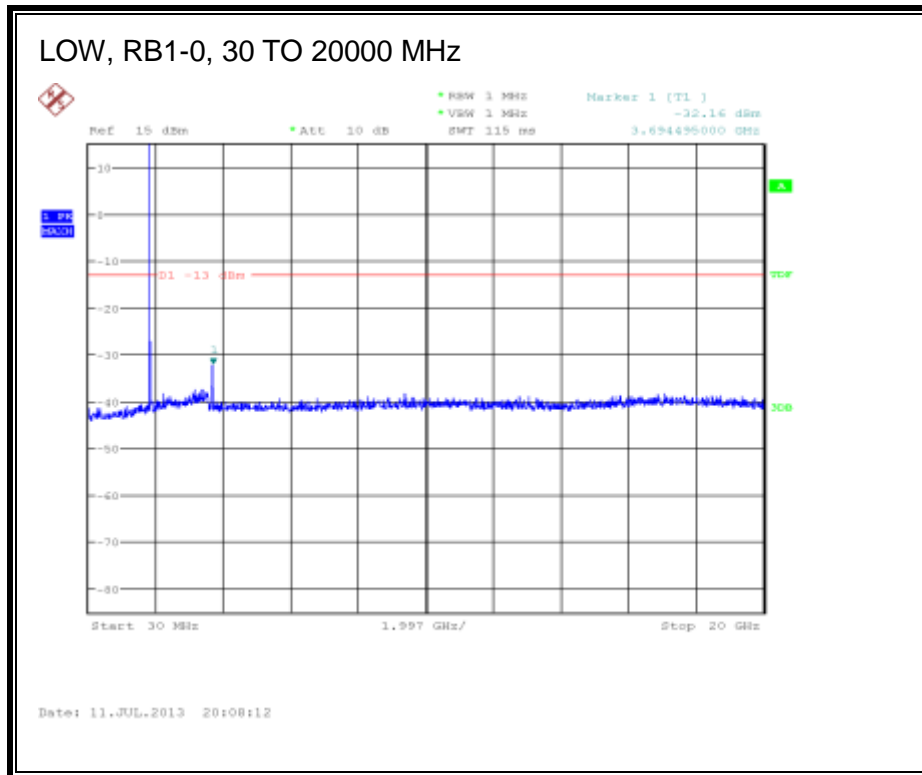
Band 25 (5.0 MHz BAND WIDTH)

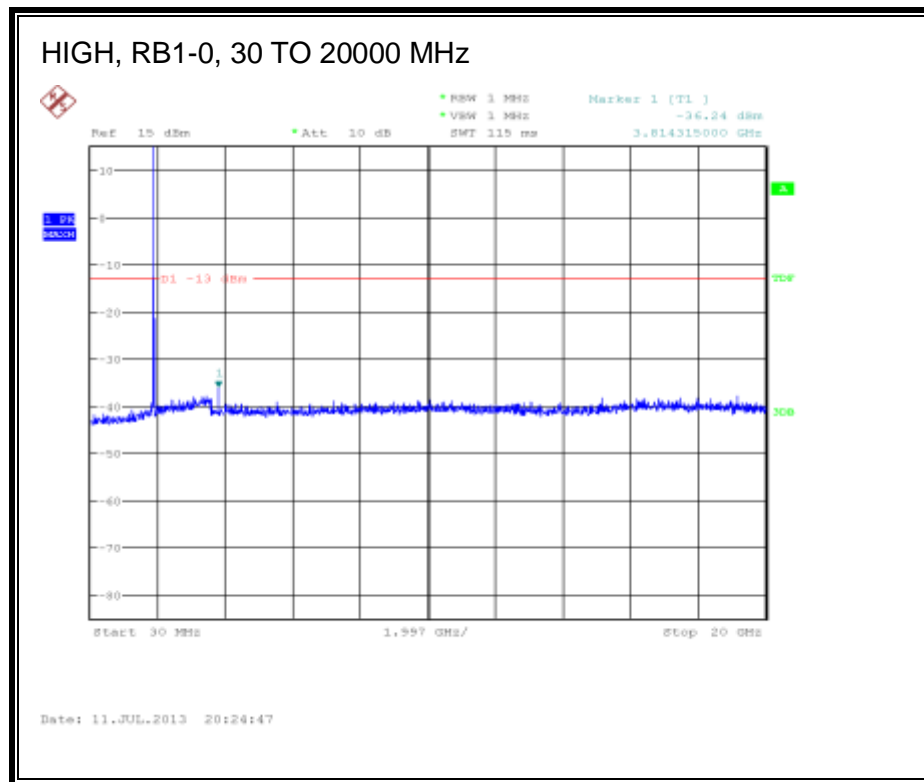
LTE QPSK





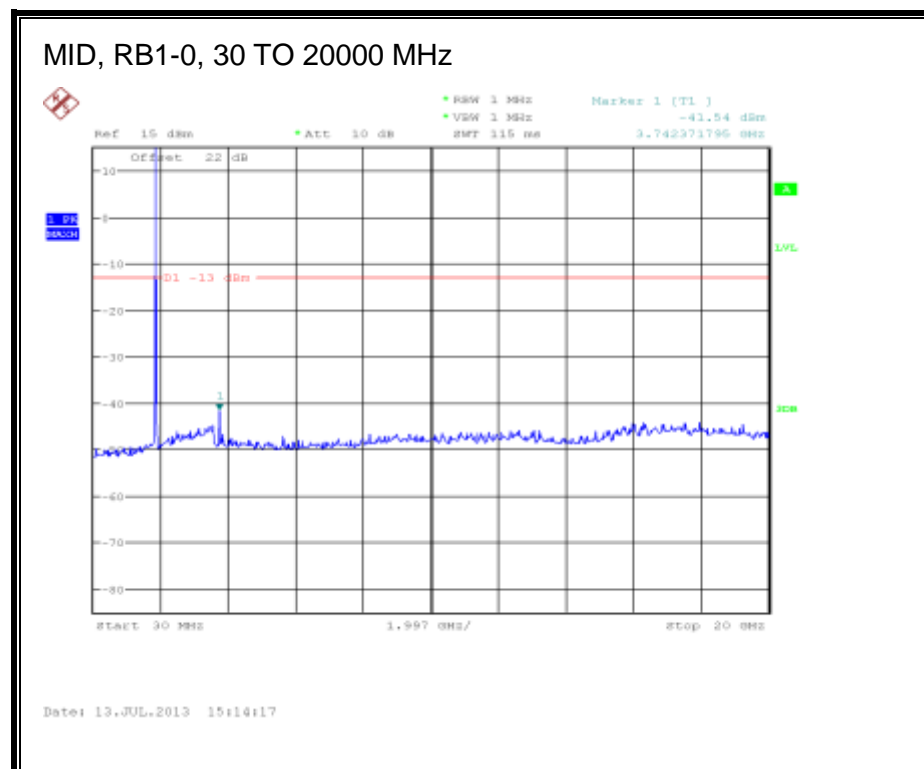
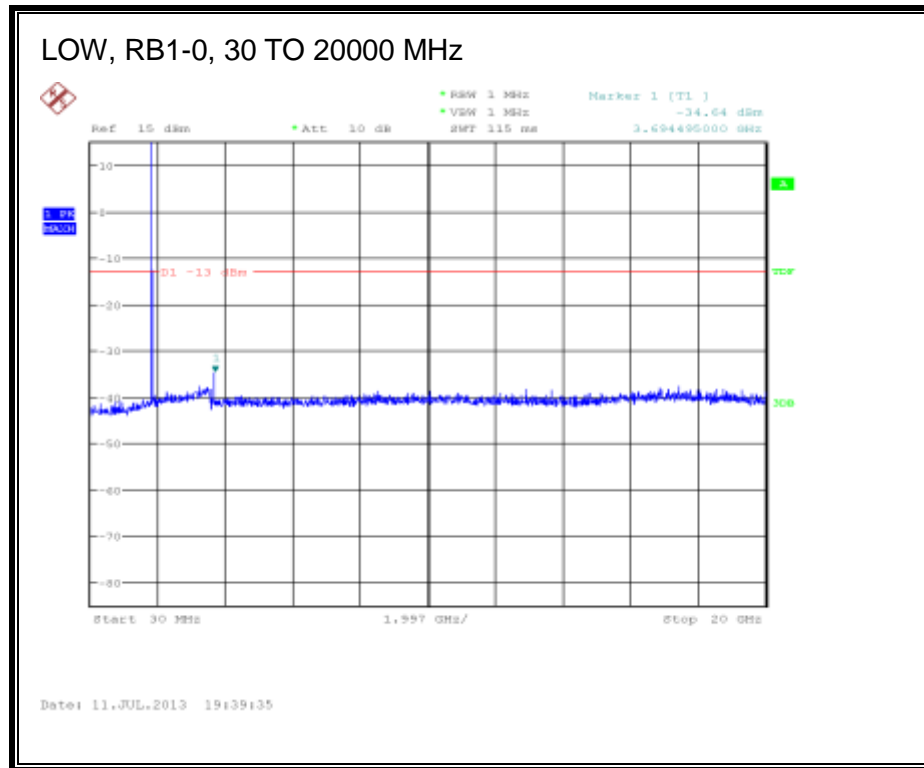
LTE 16QAM

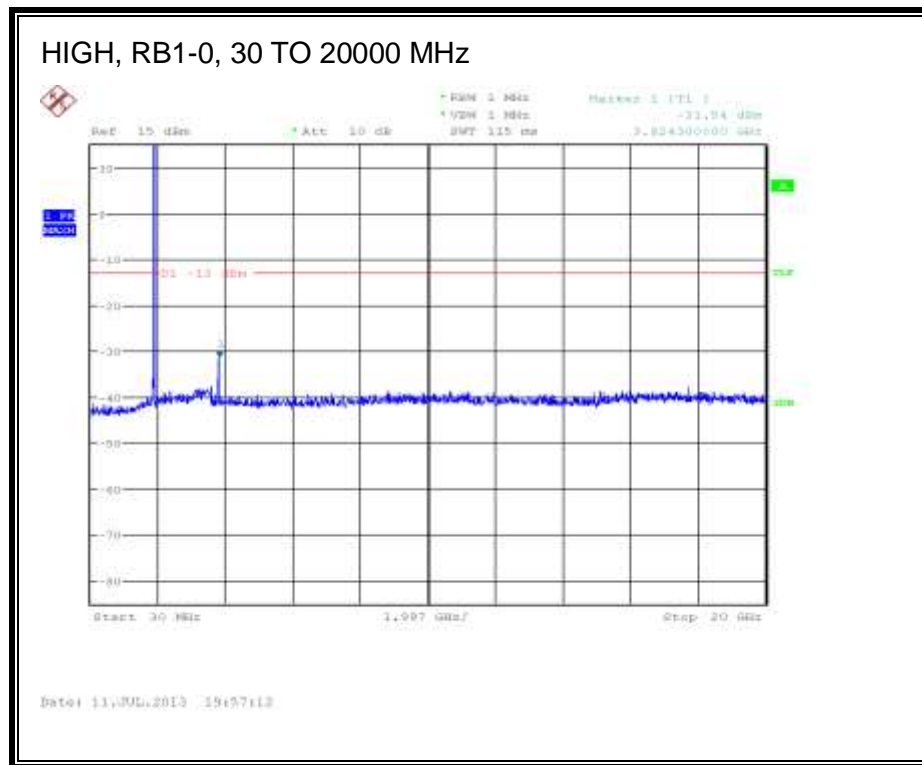




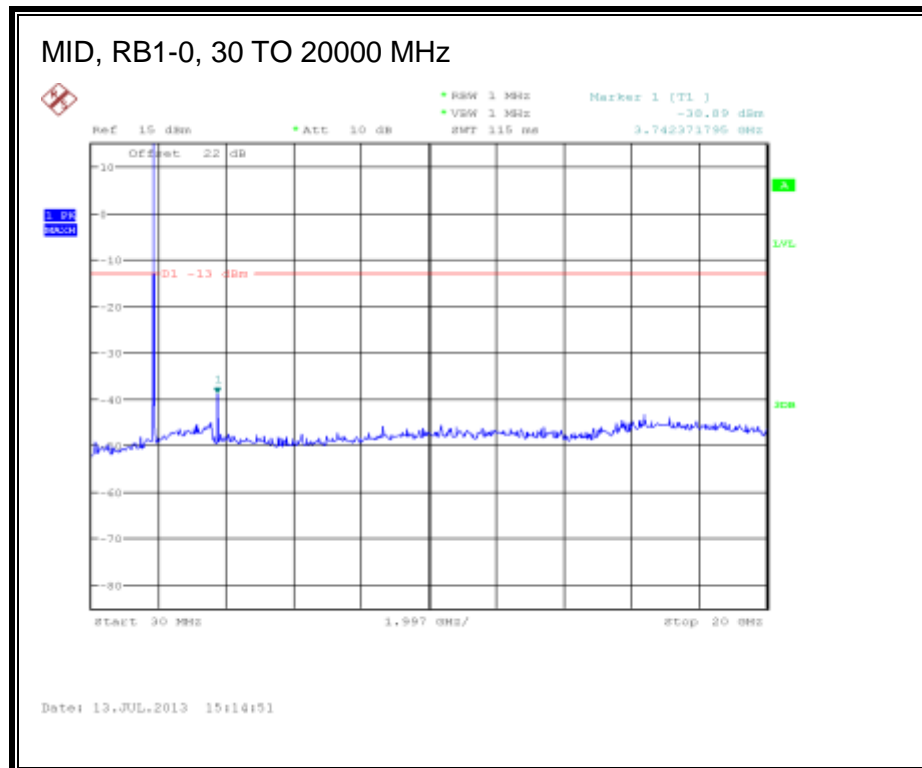
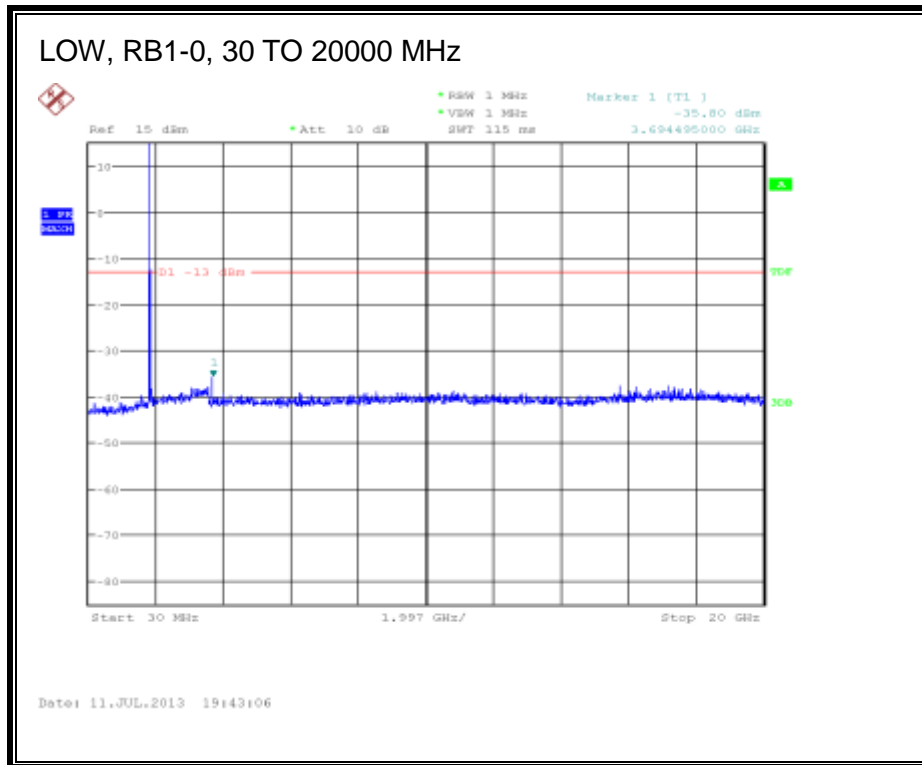
Band 25 (10.0 MHz BAND WIDTH)

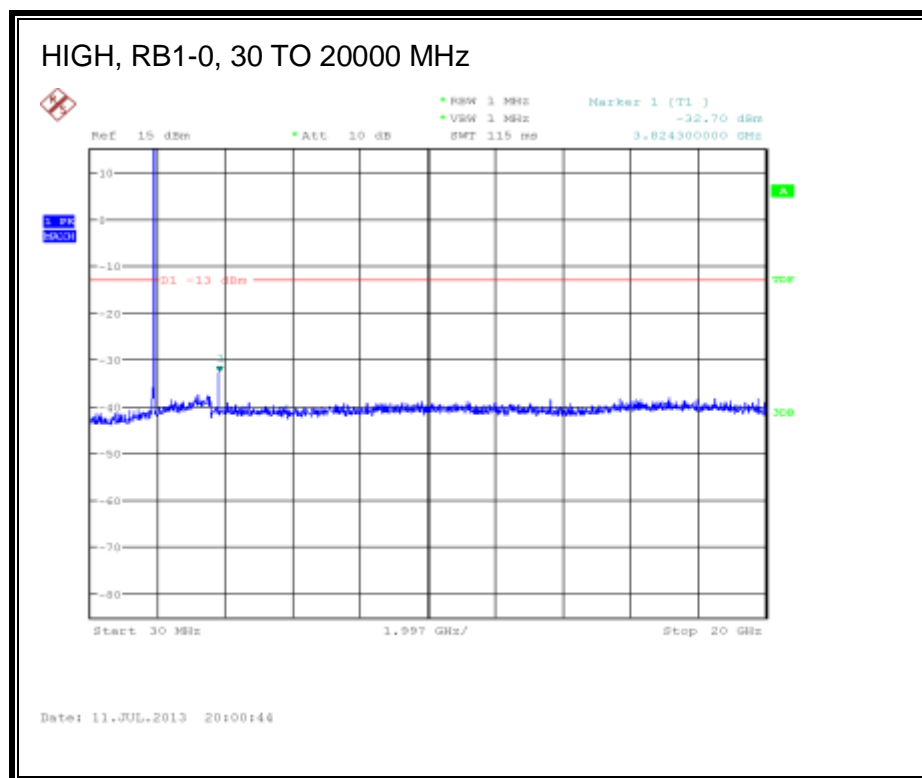
LTE QPSK





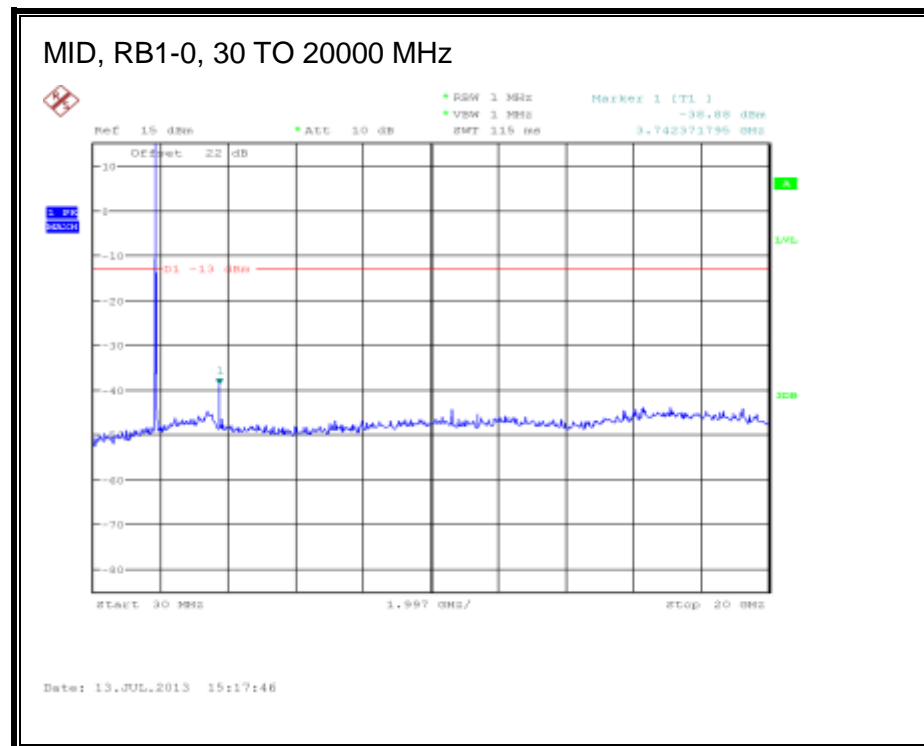
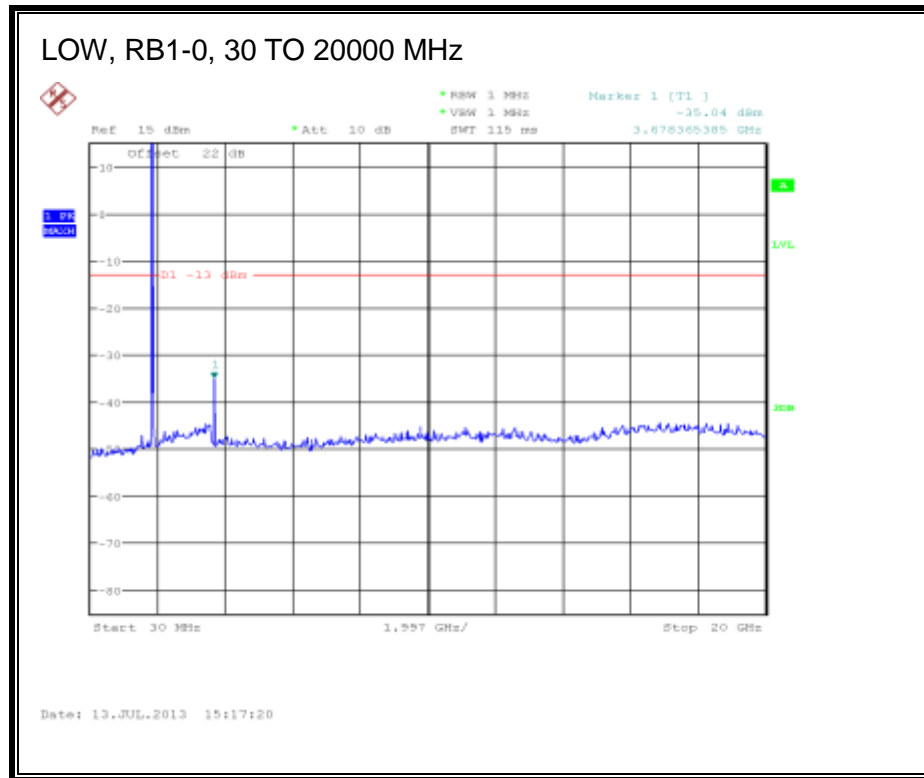
LTE 16QAM

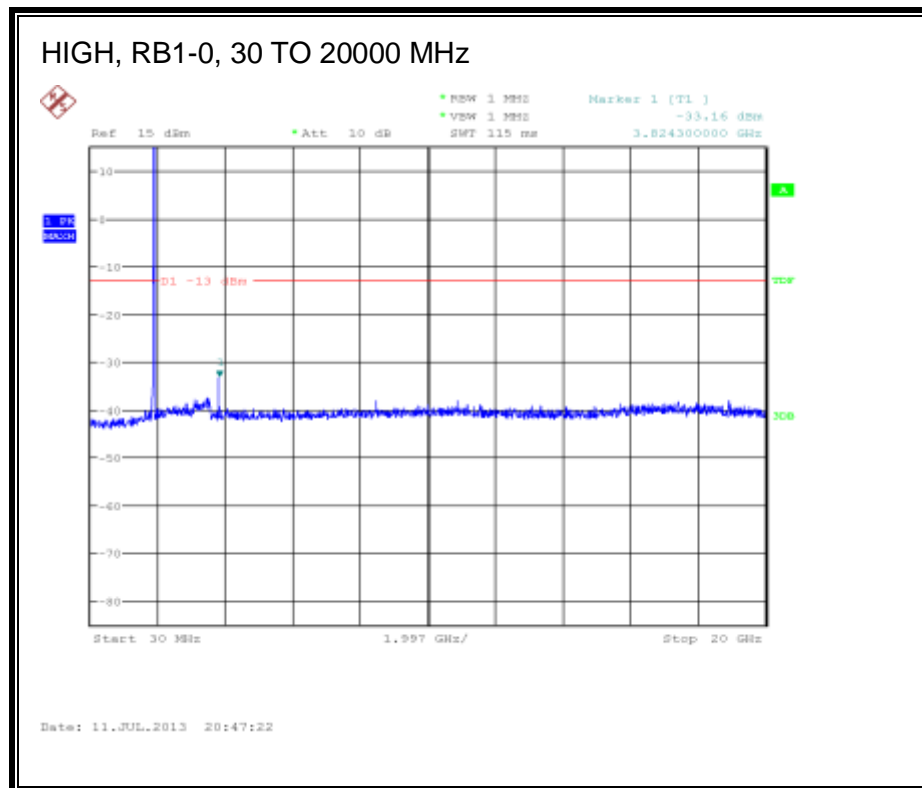




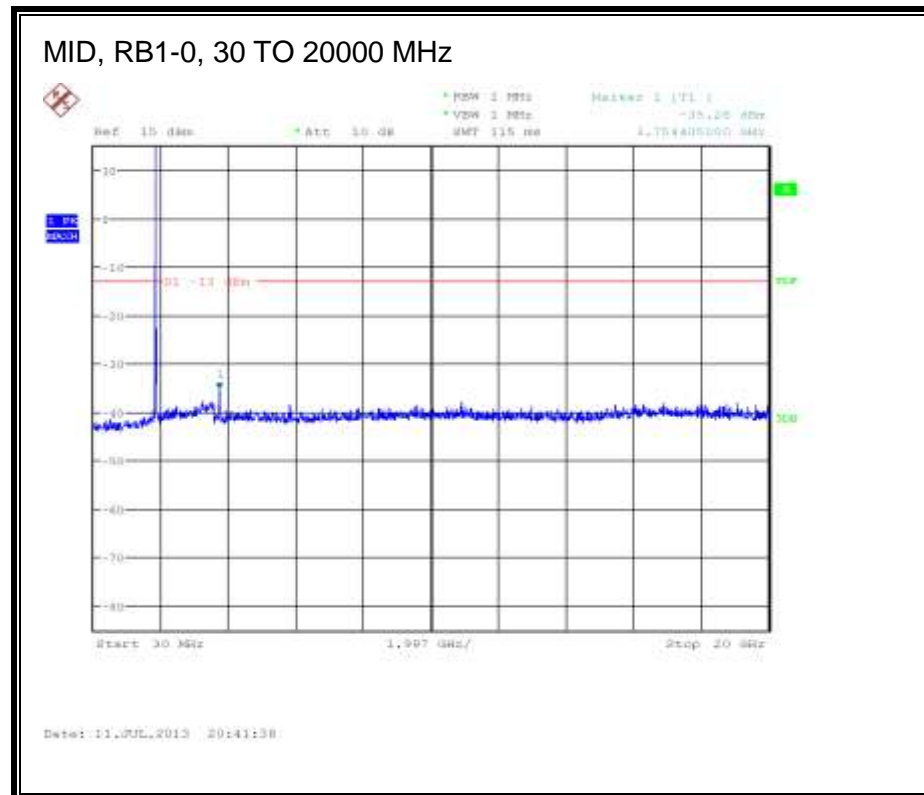
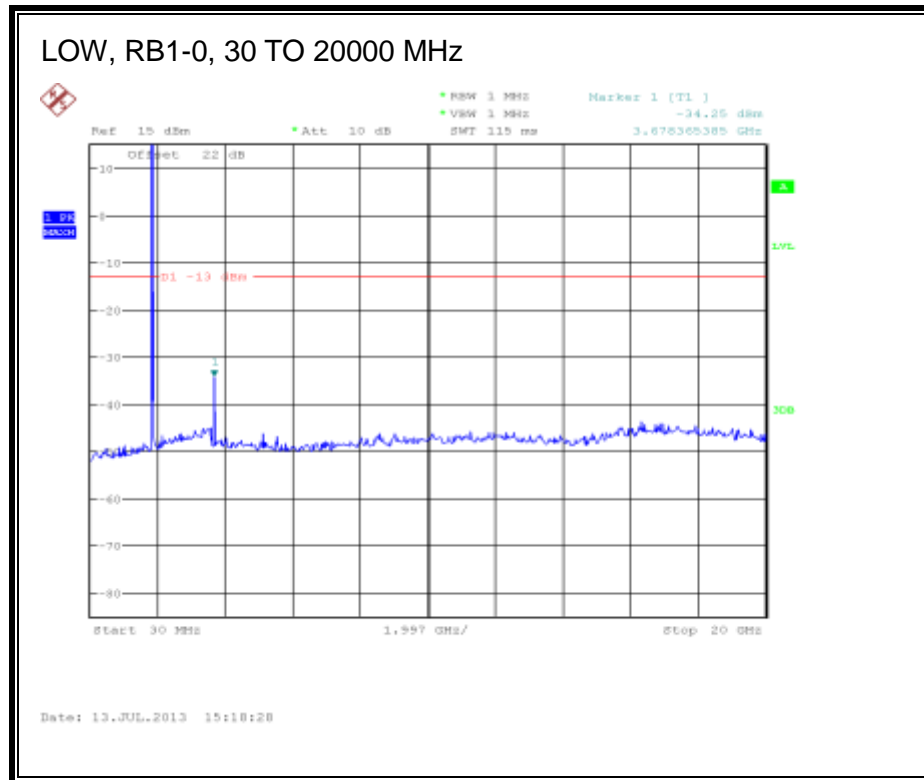
Band 25 (15.0 MHz BAND WIDTH)

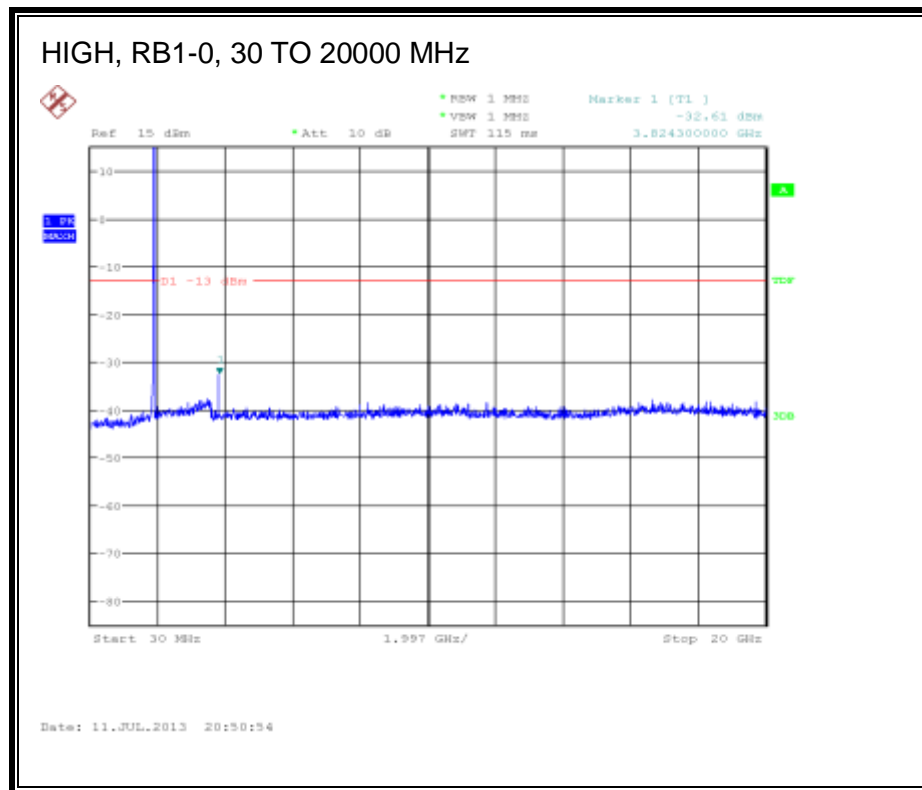
LTE QPSK





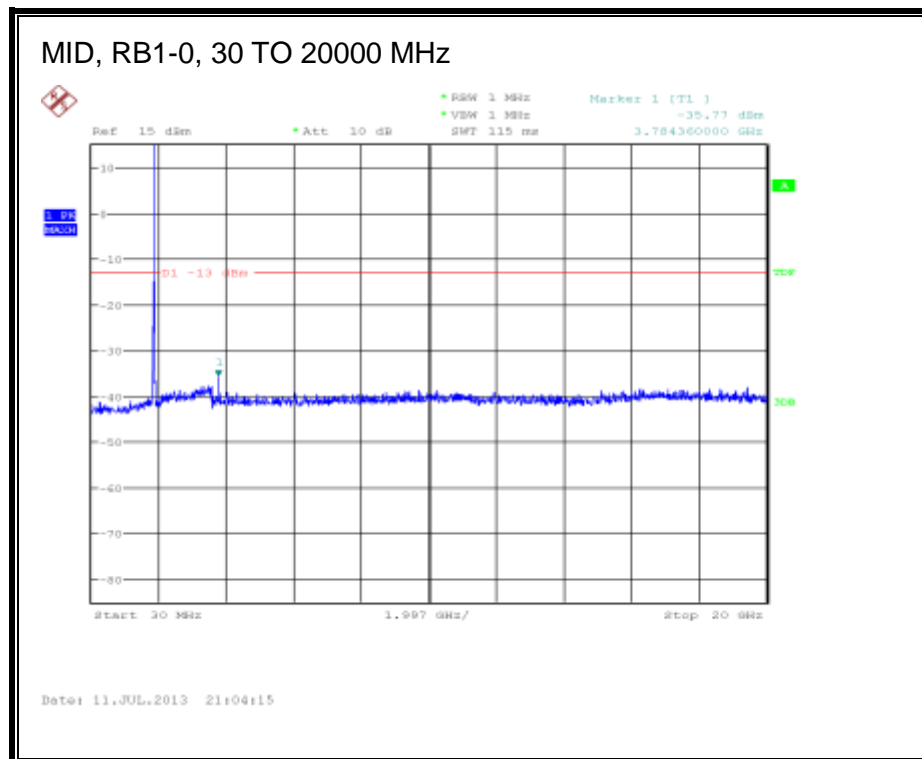
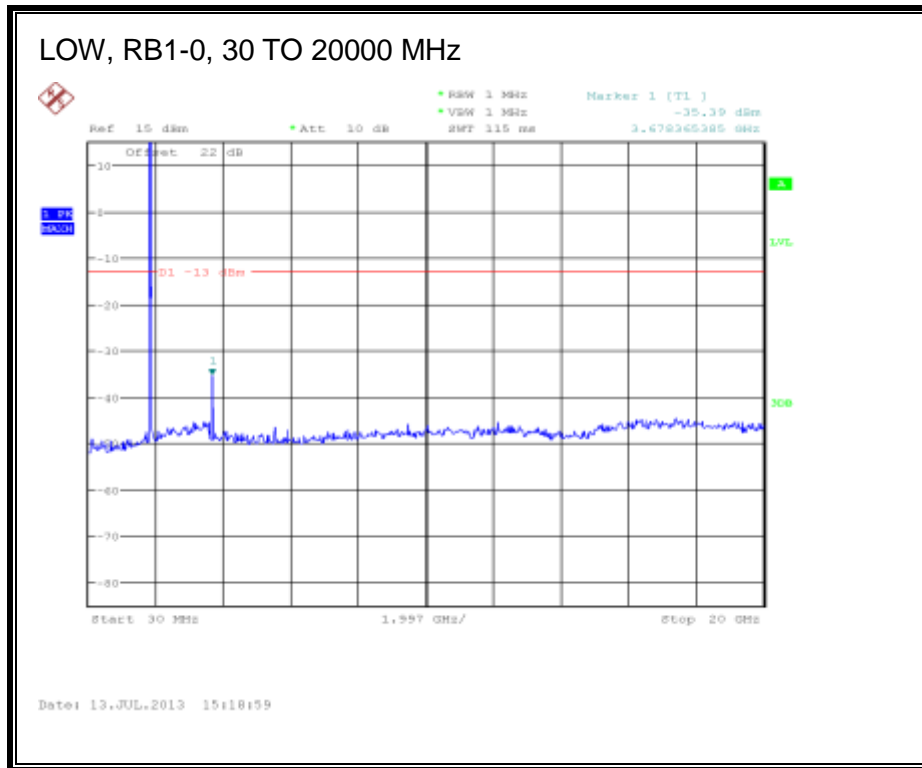
LTE 16QAM

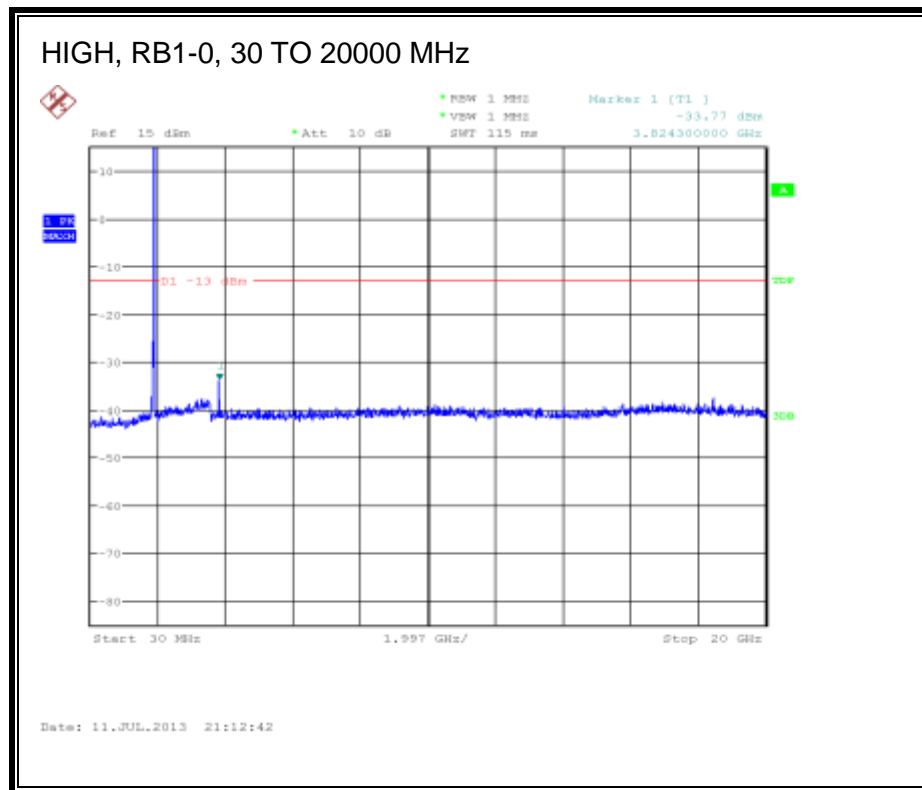




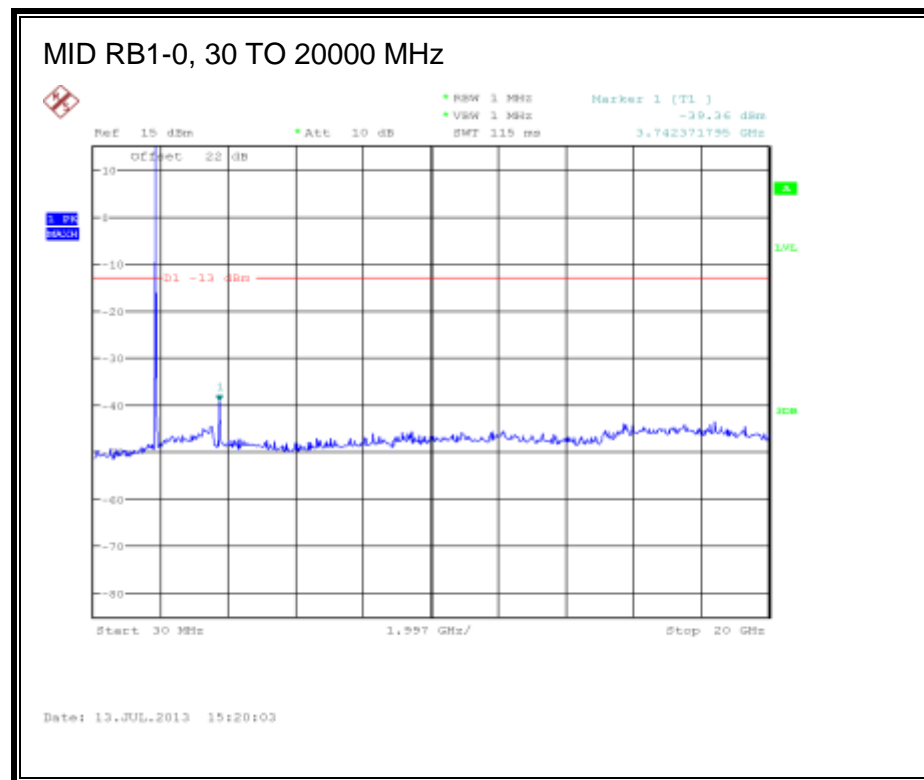
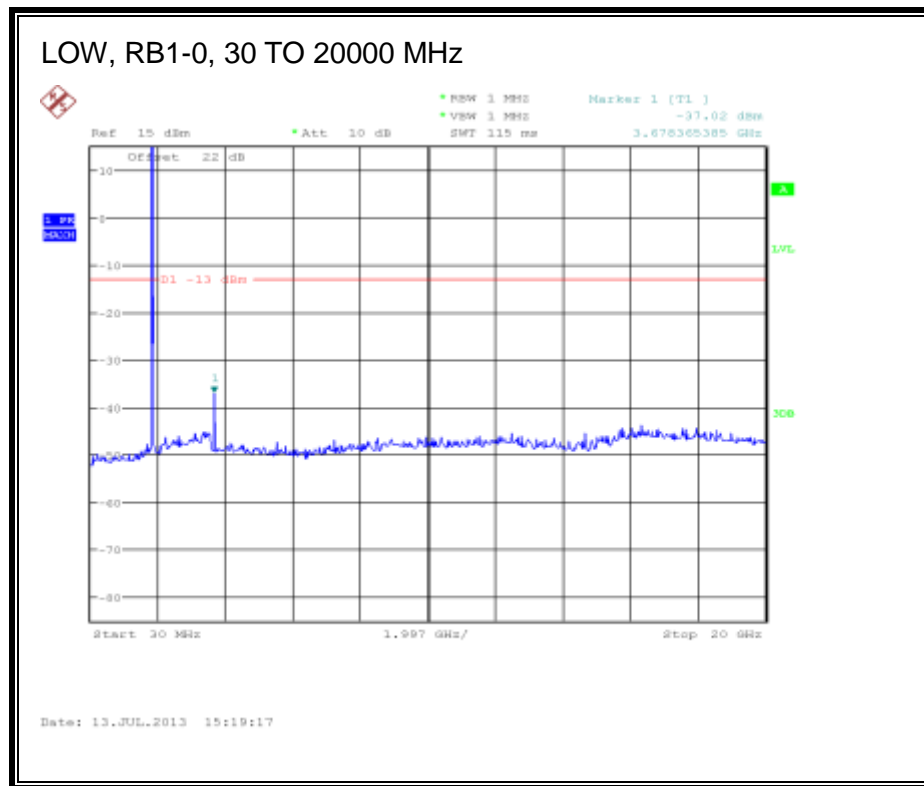
Band 25 (20.0 MHz BAND WIDTH)

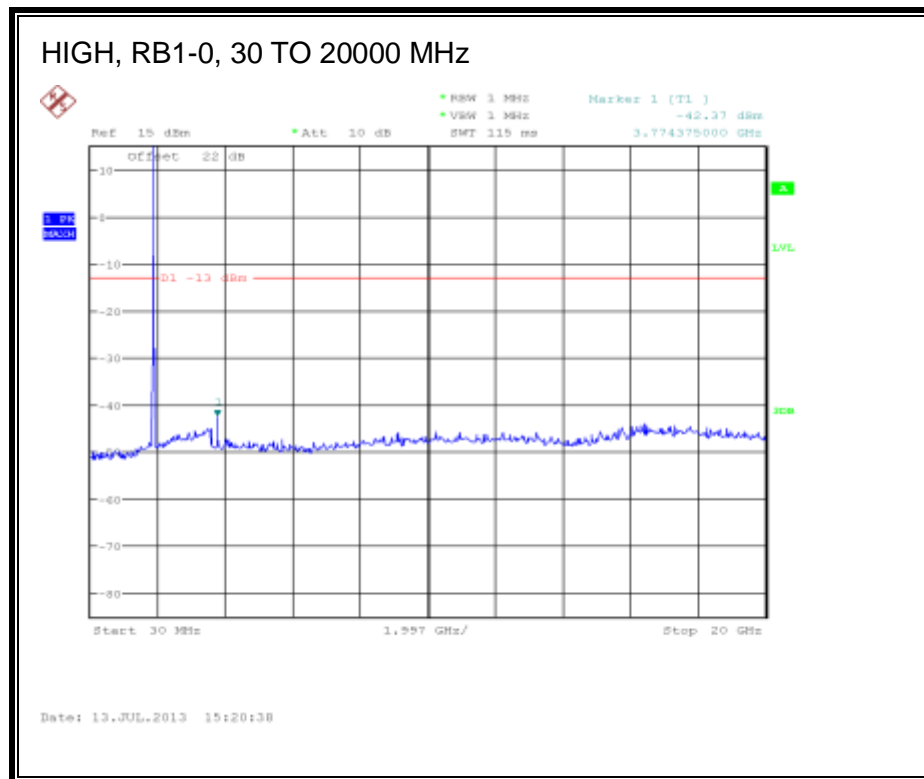
LTE QPSK





LTE 16QAM



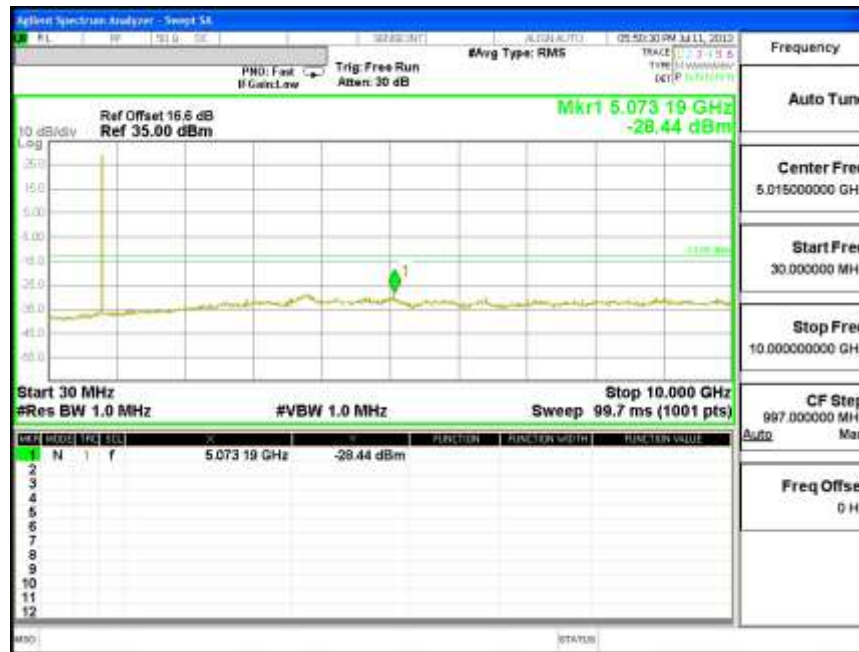


8.3.7. LTE BAND 26

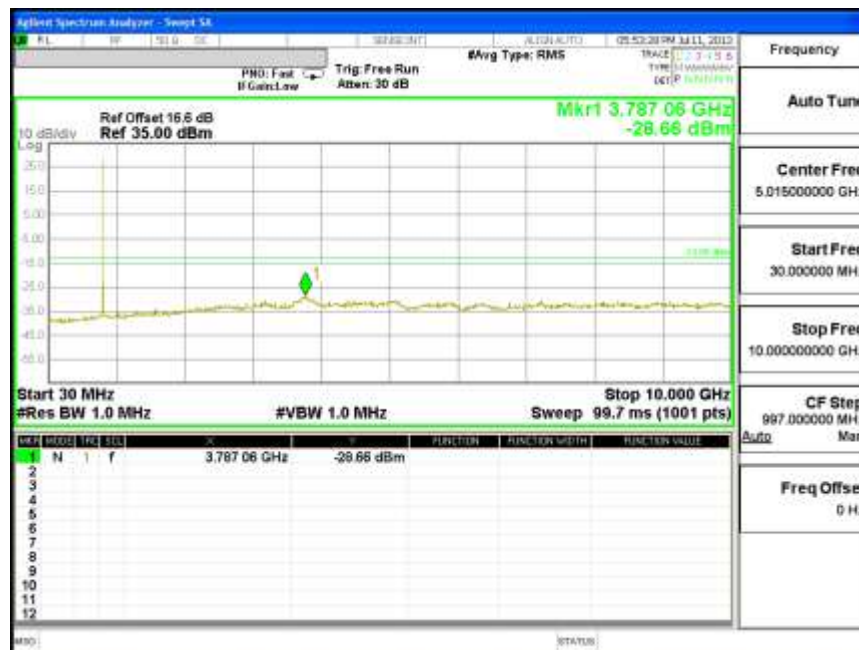
Band 26 (3.0 MHz BAND WIDTH)

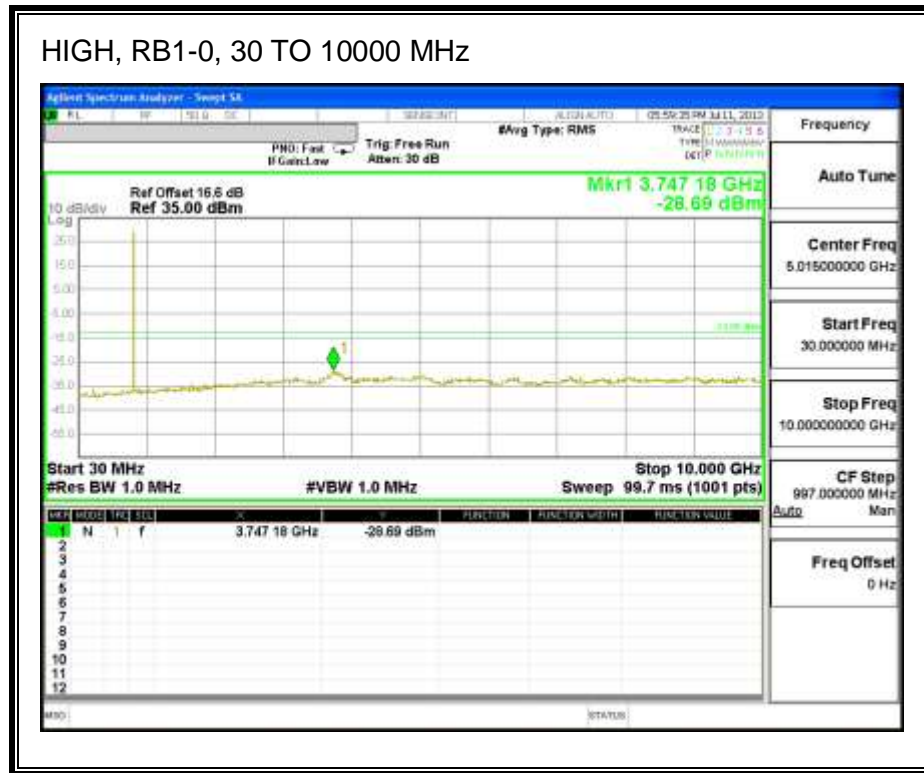
LTE QPSK

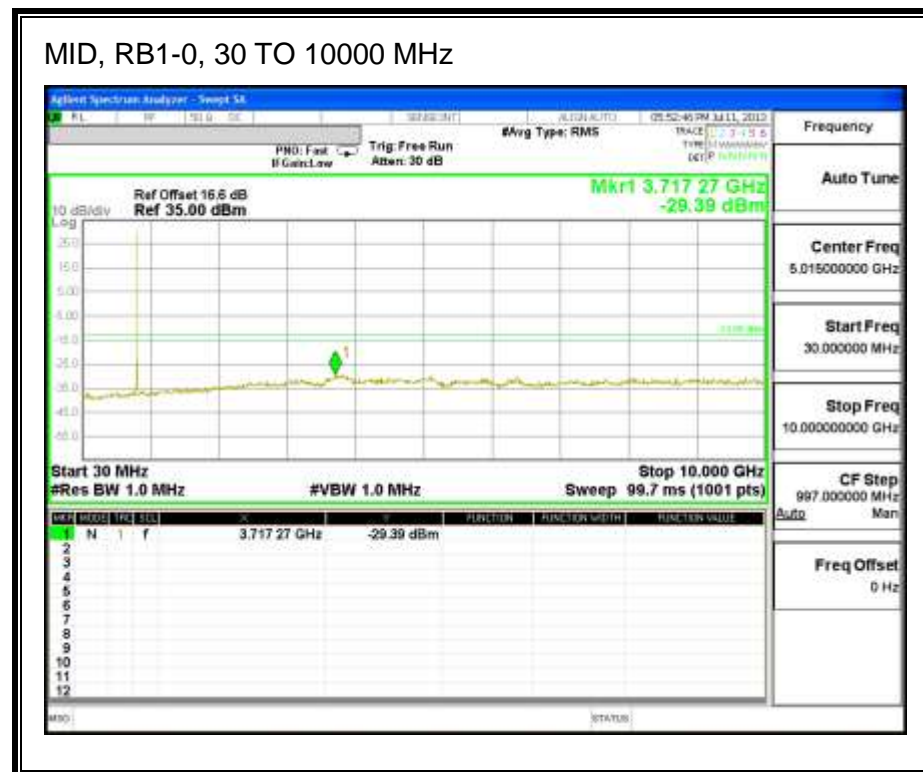
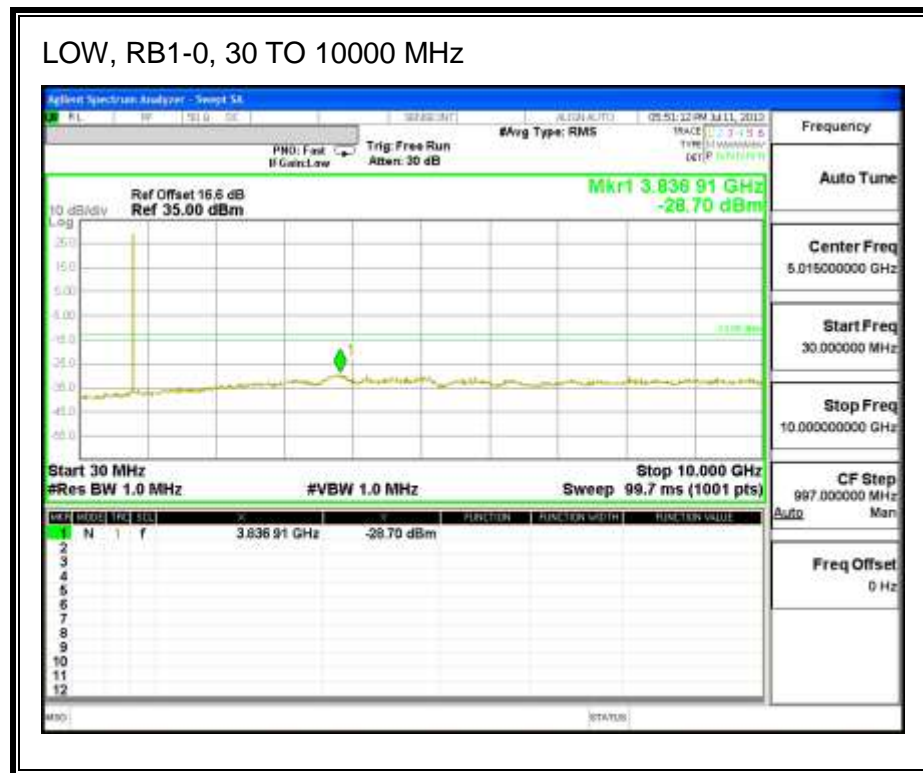
LOW, RB1-0, 30 TO 10000 MHz

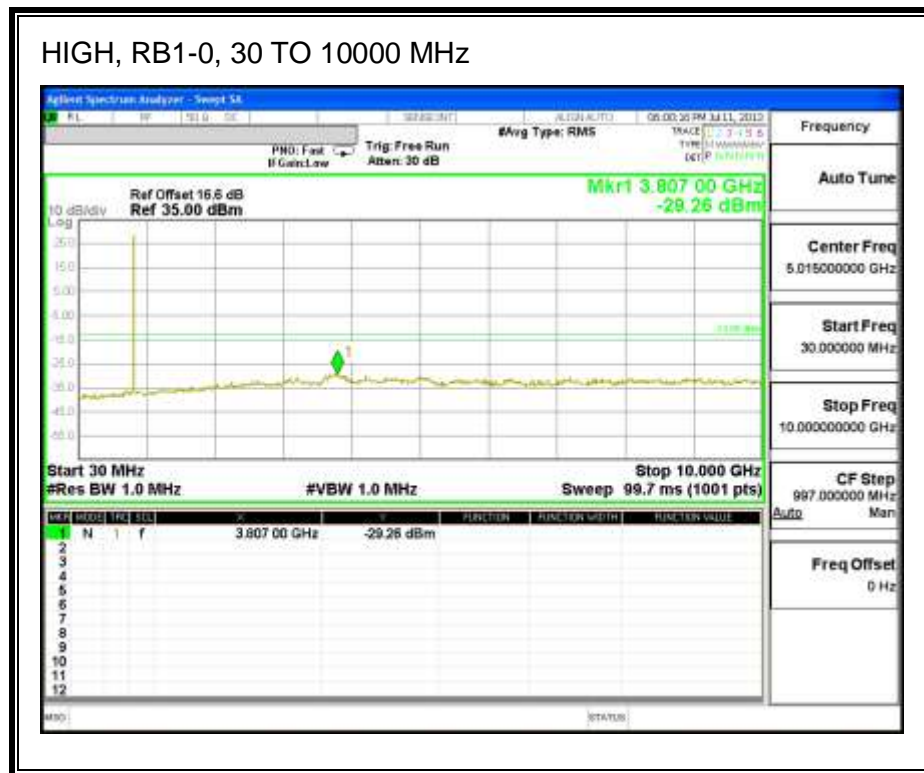


MID, RB1-0, 30 TO 10000 MHz



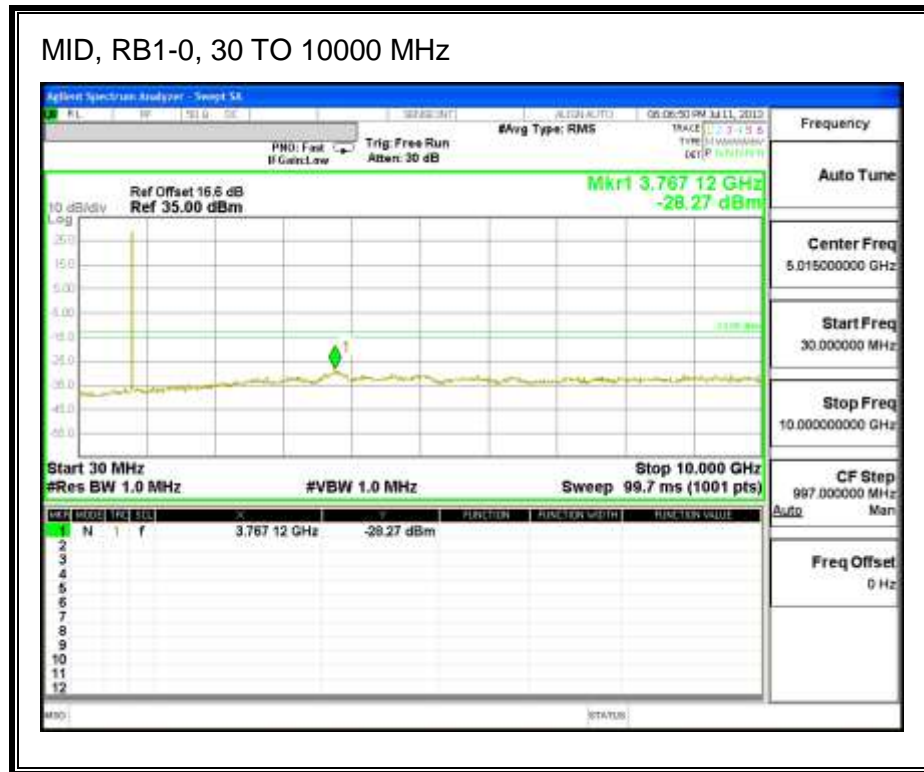




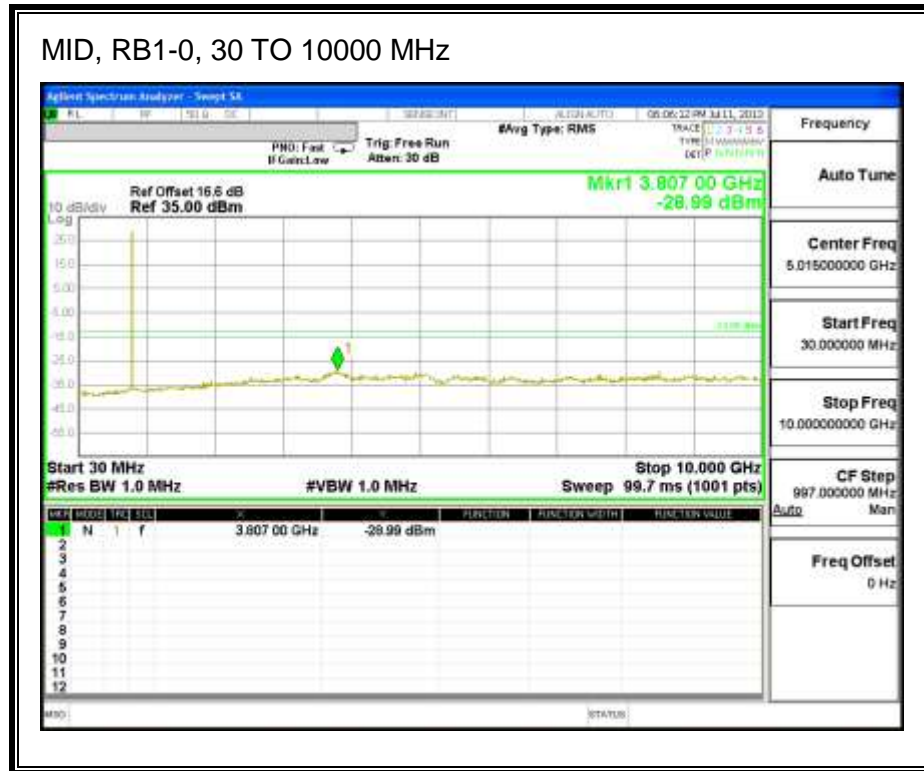


Band 26 (5.0 MHz BAND WIDTH)

LTE QPSK



LTE 16QAM



8.4. FREQUENCY STABILITY

RULE PART(S)

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

LIMITS

§22.355 & RSS-132 4.3 - The carrier frequency shall not depart from the reference frequency in excess of ± 2.5 ppm for mobile stations.

RSS-133 6.3 - 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

RESULTS

See the following pages.

LTE BAND 2, QPSK – 1880.0 MHz

| Reference Frequency: LTE Band 2_1879.999983 MHz @ 20°C Limit: to stay +- 2.5 ppm = 4700.000 Hz | | | | |
|---|------------------------------|---|-------------|-------------|
| Power Supply (Vdc) | Environment Temperature (°C) | Frequency Deviation Measured with Time Elapse | | |
| | | (MHz) | Delta (ppm) | Limit (ppm) |
| 3.80 | 50 | 1879.999962 | 0.011 | 2.5 |
| 3.80 | 40 | 1879.999963 | 0.011 | 2.5 |
| 3.80 | 30 | 1879.999964 | 0.010 | 2.5 |
| 3.80 | 20 | 1879.999983 | 0 | 2.5 |
| 3.80 | 10 | 1879.999964 | 0.010 | 2.5 |
| 3.80 | 0 | 1879.999962 | 0.011 | 2.5 |
| 3.80 | -10 | 1879.999971 | 0.006 | 2.5 |
| 3.80 | -20 | 1879.999969 | 0.007 | 2.5 |
| 3.80 | -30 | 1879.999964 | 0.010 | 2.5 |

| Reference Frequency: LTE Band 2_Mid Channel 1880.000009 MHz @ 20°C Limit: to stay +- 2.5 ppm = 4700.000 Hz | | | | |
|---|------------------------------|---|-------------|-------------|
| Power Supply (Vdc) | Environment Temperature (°C) | Frequency Deviation Measured with Time Elapse | | |
| | | (MHz) | Delta (ppm) | Limit (ppm) |
| 3.80 | 20 | 1879.999983 | 0 | 2.5 |
| 4.20 | 20 | 1879.999965 | 0.010 | 2.5 |
| 3.40 | 20 | 1879.999968 | 0.008 | 2.5 |
| End Voltage(3.3) | 20 | 1879.999978 | 0.003 | 2.5 |

LTE BAND 2, 16QAM – 1880.0 MHz

| Reference Frequency: LTE Band 2_1879.999984 MHz @ 20°C Limit: to stay +- 2.5 ppm = 4700.000 Hz | | | | |
|---|------------------------------|---|-------------|-------------|
| Power Supply (Vdc) | Environment Temperature (°C) | Frequency Deviation Measured with Time Elapse | | |
| | | (MHz) | Delta (ppm) | Limit (ppm) |
| 3.80 | 50 | 1879.999965 | 0.010 | 2.5 |
| 3.80 | 40 | 1879.999966 | 0.010 | 2.5 |
| 3.80 | 30 | 1879.999967 | 0.009 | 2.5 |
| 3.80 | 20 | 1879.999984 | 0 | 2.5 |
| 3.80 | 10 | 1879.999964 | 0.011 | 2.5 |
| 3.80 | 0 | 1879.999965 | 0.010 | 2.5 |
| 3.80 | -10 | 1879.999970 | 0.007 | 2.5 |
| 3.80 | -20 | 1879.999971 | 0.007 | 2.5 |
| 3.80 | -30 | 1879.999967 | 0.009 | 2.5 |

| Reference Frequency: LTE Band 2_Mid Channel 1879.999984 MHz @ 20°C Limit: to stay +- 2.5 ppm = 4700.000 Hz | | | | |
|---|------------------------------|---|-------------|-------------|
| Power Supply (Vdc) | Environment Temperature (°C) | Frequency Deviation Measured with Time Elapse | | |
| | | (MHz) | Delta (ppm) | Limit (ppm) |
| 3.80 | 20 | 1879.999984 | 0 | 2.5 |
| 4.20 | 20 | 1879.999968 | 0.009 | 2.5 |
| 3.40 | 20 | 1879.999978 | 0.003 | 2.5 |
| End Voltage(3.2) | 20 | 1879.999974 | 0.005 | 2.5 |

LTE BAND 4 – 1732.5 MHz QPSK

| Reference Frequency: LTE Band 4_Mid Channel 1732.500011 MHz @ 20°C Limit: to stay +/- 2.5 ppm = 4331.250 Hz | | | | |
|--|---------------------------------|---|-------------|-------------|
| Power Supply (Vdc) | Environment Temperature (°C) | Frequency Deviation Measured with Time Elapse | | |
| | | (MHz) | Delta (ppm) | Limit (ppm) |
| 3.80 | 50 | 1732.500018 | -0.0040 | 2.5 |
| 3.80 | 40 | 1732.500019 | -0.0046 | 2.5 |
| 3.80 | 30 | 1732.500018 | -0.0040 | 2.5 |
| 3.80 | 20 | 1732.500011 | 0 | 2.5 |
| 3.80 | 10 | 1732.500018 | -0.0040 | 2.5 |
| 3.80 | 0 | 1732.500017 | -0.0035 | 2.5 |
| 3.80 | -10 | 1732.500021 | -0.0058 | 2.5 |
| 3.80 | -20 | 1732.500021 | -0.0058 | 2.5 |
| 3.80 | -30 | 1732.500020 | -0.0052 | 2.5 |

| Reference Frequency: LTE Band 4_Mid Channel 1732.500011 MHz @ 20°C Limit: to stay +/- 2.5 ppm = 4331.250 Hz | | | | |
|--|---------------------------------|---|-------------|-------------|
| Power Supply (Vdc) | Environment Temperature (°C) | Frequency Deviation Measured with Time Elapse | | |
| | | (MHz) | Delta (ppm) | Limit (ppm) |
| 3.80 | 20 | 1732.500011 | 0 | 2.5 |
| 4.20 | 20 | 1732.500019 | -0.0046 | 2.5 |
| 3.40 | 20 | 1732.500002 | 0.0054 | 2.5 |
| End Volt(3.2) | 20 | 1732.500001 | 0.0058 | 2.5 |

LTE BAND 4 – 1732.5 MHz, 16QAM

| Reference Frequency: LTE Band 4_Mid Channle 1732.500009 MHz @ 20°C Limit: to stay +/- 2.5 ppm = 4331.250 Hz | | | | |
|--|---------------------------------|---|-------------|-------------|
| Power Supply (Vdc) | Environment Temperature (°C) | Frequency Deviation Measured with Time Elapse | | |
| | | (MHz) | Delta (ppm) | Limit (ppm) |
| 3.80 | 50 | 1732.500015 | -0.0035 | 2.5 |
| 3.80 | 40 | 1732.500016 | -0.0040 | 2.5 |
| 3.80 | 30 | 1732.500017 | -0.0046 | 2.5 |
| 3.80 | 20 | 1732.500009 | 0 | 2.5 |
| 3.80 | 10 | 1732.500016 | -0.0040 | 2.5 |
| 3.80 | 0 | 1732.500014 | -0.0029 | 2.5 |
| 3.80 | -10 | 1732.500018 | -0.0052 | 2.5 |
| 3.80 | -20 | 1732.500017 | -0.0046 | 2.5 |
| 3.80 | -30 | 1732.500019 | -0.0058 | 2.5 |

| Reference Frequency: LTE Band 4_Mid Channel 1732.500009MHz @ 20°C Limit: to stay +/- 2.5 ppm = 4331.250 Hz | | | | |
|---|---------------------------------|---|-------------|-------------|
| Power Supply (Vdc) | Environment Temperature (°C) | Frequency Deviation Measured with Time Elapse | | |
| | | (MHz) | Delta (ppm) | Limit (ppm) |
| 3.80 | 20 | 1732.500009 | 0 | 2.5 |
| 4.20 | 20 | 1732.500018 | -0.0052 | 2.5 |
| 3.40 | 20 | 1732.500016 | -0.0040 | 2.5 |
| End Volt(3.2) | 20 | 1732.500015 | -0.0035 | 2.5 |

LTE BAND 13, QPSK – 782.000 MHz

| Reference Frequency: LTE Band 13_781.999995MHz @ 20°C Limit: to stay +- 2.5 ppm = 1955.000 Hz | | | | |
|--|---------------------------------|---|-------------|-------------|
| Power Supply (Vdc) | Environment Temperature (°C) | Frequency Deviation Measured with Time Elapse | | |
| | | (MHz) | Delta (ppm) | Limit (ppm) |
| 3.80 | 50 | 781.999989 | 0.008 | 2.5 |
| 3.80 | 40 | 781.999989 | 0.008 | 2.5 |
| 3.80 | 30 | 781.999990 | 0.006 | 2.5 |
| 3.80 | 20 | 781.999995 | 0 | 2.5 |
| 3.80 | 10 | 781.999990 | 0.006 | 2.5 |
| 3.80 | 0 | 781.999991 | 0.005 | 2.5 |
| 3.80 | -10 | 781.999999 | -0.005 | 2.5 |
| 3.80 | -20 | 781.999992 | 0.004 | 2.5 |
| 3.80 | -30 | 781.999999 | -0.005 | 2.5 |

| Reference Frequency: LTE Band 13_Mid Channel 781.999995MHz @ 20°C Limit: to stay +- 2.5 ppm = 1955.000 Hz | | | | |
|--|---------------------------------|---|-------------|-------------|
| Power Supply (Vdc) | Environment Temperature (°C) | Frequency Deviation Measured with Time Elapse | | |
| | | (MHz) | Delta (ppm) | Limit (ppm) |
| 3.80 | 20 | 781.999995 | 0 | 2.5 |
| 4.20 | 20 | 781.999990 | 0.006 | 2.5 |
| 3.40 | 20 | 781.999993 | 0.003 | 2.5 |
| End Voltage(3.3) | 20 | 781.999994 | 0.001 | 2.5 |

LTE BAND 13, 16QAM– 782.000 MHz

| Reference Frequency: LTE Band 13_781.999996 MHz @ 20°C Limit: to stay +- 2.5 ppm = 1955.000 Hz | | | | |
|---|---------------------------------|---|-------------|-------------|
| Power Supply (Vdc) | Environment Temperature (°C) | Frequency Deviation Measured with Time Elapse | | |
| | | (MHz) | Delta (ppm) | Limit (ppm) |
| 3.80 | 50 | 781.999991 | 0.006 | 2.5 |
| 3.80 | 40 | 781.999992 | 0.005 | 2.5 |
| 3.80 | 30 | 781.999993 | 0.004 | 2.5 |
| 3.80 | 20 | 781.999996 | 0 | 2.5 |
| 3.80 | 10 | 781.999992 | 0.005 | 2.5 |
| 3.80 | 0 | 781.999992 | 0.005 | 2.5 |
| 3.80 | -10 | 781.999993 | 0.004 | 2.5 |
| 3.80 | -20 | 781.999992 | 0.005 | 2.5 |
| 3.80 | -30 | 781.999992 | 0.005 | 2.5 |

| Reference Frequency: LTE Band 13_Mid Channel 782.000028MHz @ 20°C Limit: to stay +- 2.5 ppm = 1955.000 Hz | | | | |
|--|---------------------------------|---|-------------|-------------|
| Power Supply (Vdc) | Environment Temperature (°C) | Frequency Deviation Measured with Time Elapse | | |
| | | (MHz) | Delta (ppm) | Limit (ppm) |
| 3.80 | 20 | 781.999996 | 0 | 2.5 |
| 4.20 | 20 | 781.999990 | 0.008 | 2.5 |
| 3.40 | 20 | 781.999993 | 0.004 | 2.5 |
| End Voltage(3.2) | 20 | 781.999991 | 0.006 | 2.5 |

LTE BAND 17 – 710 MHz, 5MHz

| Reference Frequency: LTE Band 17_Mid Channe 710.000004 MHz @ 20°C Limit: to stay +- 2.5 ppm = 1775.000 Hz | | | | |
|--|---------------------------------|--|-------------|-------------|
| Power Supply (Vdc) | Environment Temperature (°C) | Frequency Deviation Measureed with Time Elapse | | |
| | | (MHz) | Delta (ppm) | Limit (ppm) |
| 3.80 | 50 | 710.000008 | -0.006 | 2.5 |
| 3.80 | 40 | 710.000008 | -0.006 | 2.5 |
| 3.80 | 30 | 710.000009 | -0.007 | 2.5 |
| 3.80 | 20 | 710.000004 | 0 | 2.5 |
| 3.80 | 10 | 710.000007 | -0.004 | 2.5 |
| 3.80 | 0 | 710.000006 | -0.003 | 2.5 |
| 3.80 | -10 | 710.000007 | -0.004 | 2.5 |
| 3.80 | -20 | 710.000001 | 0.004 | 2.5 |
| 3.80 | -30 | 710.000007 | -0.004 | 2.5 |

| Reference Frequency: LTE Band 17_Mid channel 710.000004 MHz @ 20°C Limit: to stay +- 2.5 ppm = 1775.000 Hz | | | | |
|---|---------------------------------|--|-------------|-------------|
| Power Supply (Vdc) | Environment Temperature (°C) | Frequency Deviation Measureed with Time Elapse | | |
| | | (MHz) | Delta (ppm) | Limit (ppm) |
| 3.80 | 20 | 710.000004 | 0 | 2.5 |
| 4.20 | 20 | 710.000001 | 0.004 | 2.5 |
| 3.40 | 20 | 710.000003 | 0.001 | 2.5 |
| End Volt(3.2) | 20 | 710.000001 | 0.004 | 2.5 |

LTE BAND 17 – 710 MHz, 10MHz

| Reference Frequency: LTE Band 17_Mid Channel 710.000005 MHz @ 20°C Limit: to stay +- 2.5 ppm = 1775.000 Hz | | | | |
|---|---------------------------------|--|-------------|-------------|
| Power Supply (Vac) | Environment Temperature (°C) | Frequency Deviation Measureed with Time Elapse | | |
| | | (MHz) | Delta (ppm) | Limit (ppm) |
| 3.80 | 50 | 710.000010 | -0.007 | 2.5 |
| 3.80 | 40 | 710.000009 | -0.006 | 2.5 |
| 3.80 | 30 | 710.000010 | -0.007 | 2.5 |
| 3.80 | 20 | 710.000005 | 0 | 2.5 |
| 3.80 | 10 | 710.000009 | -0.006 | 2.5 |
| 3.80 | 0 | 710.000008 | -0.004 | 2.5 |
| 3.80 | -10 | 710.000007 | -0.003 | 2.5 |
| 3.80 | -20 | 710.000003 | 0.003 | 2.5 |
| 3.80 | -30 | 710.000009 | -0.006 | 2.5 |

| Reference Frequency: LTE Band 17_Mid Channel 710.000005MHz @ 20°C Limit: to stay +- 2.5 ppm = 1775.000 Hz | | | | |
|--|---------------------------------|--|-------------|-------------|
| Power Supply (Vac) | Environment Temperature (°C) | Frequency Deviation Measureed with Time Elapse | | |
| | | (MHz) | Delta (ppm) | Limit (ppm) |
| 3.80 | 20 | 710.000005 | 0 | 2.5 |
| 4.20 | 20 | 710.000002 | 0.004 | 2.5 |
| 3.40 | 20 | 710.000003 | 0.003 | 2.5 |
| End Volt(3.2) | 20 | 710.000002 | 0.004 | 2.5 |

LTE BAND 5 – 836.5MHz, QPSK

| Reference Frequency: LTE Band 5_Mid Channe 836.500005 MHz @ 20°C Limit: to stay +- 2.5 ppm = 2091.250 Hz | | | | |
|---|---------------------------------|---|-------------|-------------|
| Power Supply (Vdc) | Environment Temperature (°C) | Frequency Deviation Measured with Time Elapse | | |
| | | (MHz) | Delta (ppm) | Limit (ppm) |
| 3.80 | 50 | 836.500009 | -0.005 | 2.5 |
| 3.80 | 40 | 836.500009 | -0.005 | 2.5 |
| 3.80 | 30 | 836.500009 | -0.005 | 2.5 |
| 3.80 | 20 | 836.500005 | 0 | 2.5 |
| 3.80 | 10 | 836.500009 | -0.005 | 2.5 |
| 3.80 | 0 | 836.500008 | -0.004 | 2.5 |
| 3.80 | -10 | 836.500009 | -0.005 | 2.5 |
| 3.80 | -20 | 836.500010 | -0.006 | 2.5 |
| 3.80 | -30 | 836.500009 | -0.005 | 2.5 |

| Reference Frequency: LTE Band 5_Mid channel 836.500005 MHz @ 20°C Limit: to stay +- 2.5 ppm = 2091.250 Hz | | | | |
|--|---------------------------------|---|-------------|-------------|
| Power Supply (Vdc) | Environment Temperature (°C) | Frequency Deviation Measured with Time Elapse | | |
| | | (MHz) | Delta (ppm) | Limit (ppm) |
| 3.80 | 20 | 836.500005 | 0 | 2.5 |
| 4.20 | 20 | 836.500008 | -0.004 | 2.5 |
| 3.40 | 20 | 836.500006 | -0.001 | 2.5 |
| End Volt(3.2) | 20 | 836.500003 | 0.002 | 2.5 |

LTE BAND 5 – 836.5 MHz, 16QAM

| Reference Frequency: LTE Band 5_Mid Channel 836.500004 MHz @ 20°C Limit: to stay +- 2.5 ppm = 2091.250 Hz | | | | |
|--|---------------------------------|---|-------------|-------------|
| Power Supply (Vac) | Environment Temperature (°C) | Frequency Deviation Measured with Time Elapse | | |
| | | (MHz) | Delta (ppm) | Limit (ppm) |
| 3.80 | 50 | 836.500007 | -0.004 | 2.5 |
| 3.80 | 40 | 836.500007 | -0.004 | 2.5 |
| 3.80 | 30 | 836.500009 | -0.006 | 2.5 |
| 3.80 | 20 | 836.500004 | 0 | 2.5 |
| 3.80 | 10 | 836.500009 | -0.006 | 2.5 |
| 3.80 | 0 | 836.500008 | -0.005 | 2.5 |
| 3.80 | -10 | 836.500007 | -0.004 | 2.5 |
| 3.80 | -20 | 836.500008 | -0.005 | 2.5 |
| 3.80 | -30 | 836.500008 | -0.005 | 2.5 |

| Reference Frequency: LTE Band 5_Mid Channel 36.500004 MHz @ 20°C Limit: to stay +- 2.5 ppm = 2091.250 Hz | | | | |
|---|---------------------------------|---|-------------|-------------|
| Power Supply (Vac) | Environment Temperature (°C) | Frequency Deviation Measured with Time Elapse | | |
| | | (MHz) | Delta (ppm) | Limit (ppm) |
| 3.80 | 20 | 836.500004 | 0 | 2.5 |
| 4.20 | 20 | 836.500007 | -0.004 | 2.5 |
| 3.30 | 20 | 836.500004 | 0.000 | 2.5 |
| End Volt(3.2) | 20 | 836.500002 | 0.002 | 2.5 |

LTE BAND 25, QPSK – 1882.500 MHz

| Reference Frequency: LTE Band 25_1882.499990 MHz @ 20°C Limit: to stay +/- 2.5 ppm = 4706.250 Hz | | | | |
|---|---------------------------------|---|-------------|-------------|
| Power Supply (Vdc) | Environment Temperature (°C) | Frequency Deviation Measured with Time Elapse | | |
| | | (MHz) | Delta (ppm) | Limit (ppm) |
| 3.80 | 50 | 1882.499975 | 0.008 | 2.5 |
| 3.80 | 40 | 1882.500004 | -0.007 | 2.5 |
| 3.80 | 30 | 1882.500004 | -0.007 | 2.5 |
| 3.80 | 20 | 1882.499990 | 0 | 2.5 |
| 3.80 | 10 | 1882.500004 | -0.007 | 2.5 |
| 3.80 | 0 | 1882.500004 | -0.007 | 2.5 |
| 3.80 | -10 | 1882.500002 | -0.006 | 2.5 |
| 3.80 | -20 | 1882.500003 | -0.007 | 2.5 |
| 3.80 | -30 | 1882.500004 | -0.007 | 2.5 |

| Reference Frequency: LTE Band 25_Mid Channel 1882.499990 MHz @ 20°C Limit: to stay +/- 2.5 ppm = 4706.250 Hz | | | | |
|---|---------------------------------|---|-------------|-------------|
| Power Supply (Vdc) | Environment Temperature (°C) | Frequency Deviation Measured with Time Elapse | | |
| | | (MHz) | Delta (ppm) | Limit (ppm) |
| 3.80 | 20 | 1882.499990 | 0 | 2.5 |
| 4.20 | 20 | 1882.500002 | -0.006 | 2.5 |
| 3.50 | 20 | 1882.499994 | -0.002 | 2.5 |
| End Voltage(3.3) | 20 | 1882.499991 | -0.001 | 2.5 |

LTE BAND 25, 16QAM– 836.500 MHz

| Reference Frequency: LTE Band 25_1882.499987 MHz @ 20°C Limit: to stay +/- 2.5 ppm = 4706.250 Hz | | | | |
|---|---------------------------------|---|-------------|-------------|
| Power Supply (Vdc) | Environment Temperature (°C) | Frequency Deviation Measured with Time Elapse | | |
| | | (MHz) | Delta (ppm) | Limit (ppm) |
| 3.80 | 50 | 1882.499973 | 0.007 | 2.5 |
| 3.80 | 40 | 1882.500000 | -0.007 | 2.5 |
| 3.80 | 30 | 1882.499999 | -0.006 | 2.5 |
| 3.80 | 20 | 1882.499987 | 0 | 2.5 |
| 3.80 | 10 | 1882.500002 | -0.008 | 2.5 |
| 3.80 | 0 | 1882.500001 | -0.007 | 2.5 |
| 3.80 | -10 | 1882.500000 | -0.007 | 2.5 |
| 3.80 | -20 | 1882.500001 | -0.007 | 2.5 |
| 3.80 | -30 | 1882.499999 | -0.006 | 2.5 |

| Reference Frequency: LTE Band 25_Mid Channel 1882.499987bMHz @ 20°C Limit: to stay +/- 2.5 ppm = 4706.250 Hz | | | | |
|---|---------------------------------|---|-------------|-------------|
| Power Supply (Vdc) | Environment Temperature (°C) | Frequency Deviation Measured with Time Elapse | | |
| | | (MHz) | Delta (ppm) | Limit (ppm) |
| 3.80 | 20 | 1882.499987 | 0 | 2.5 |
| 4.20 | 20 | 1882.499998 | -0.006 | 2.5 |
| 3.40 | 20 | 1882.500001 | -0.007 | 2.5 |
| End Voltage(3.3) | 20 | 1882.499995 | -0.004 | 2.5 |

LTE BAND 26 – 831.5 MHz, QPSK

| Reference Frequency: LTE Band 26_Mid Channel 831.499996 MHz @ 20°C Limit: to stay +/- 2.5 ppm = 2078.750 Hz | | | | |
|--|---------------------------------|---|-------------|-------------|
| Power Supply (Vdc) | Environment Temperature (°C) | Frequency Deviation Measured with Time Elapse | | |
| | | (MHz) | Delta (ppm) | Limit (ppm) |
| 3.80 | 50 | 831.499994 | 0.002 | 2.5 |
| 3.80 | 40 | 831.499995 | 0.001 | 2.5 |
| 3.80 | 30 | 831.499995 | 0.001 | 2.5 |
| 3.80 | 20 | 831.499996 | 0 | 2.5 |
| 3.80 | 10 | 831.499995 | 0.001 | 2.5 |
| 3.80 | 0 | 831.499996 | 0.000 | 2.5 |
| 3.80 | -10 | 831.499996 | 0.000 | 2.5 |
| 3.80 | -20 | 831.499996 | 0.000 | 2.5 |
| 3.80 | -30 | 831.499997 | -0.001 | 2.5 |

| Reference Frequency: LTE Band 26_Mid Channel 831.499996 MHz @ 20°C Limit: to stay +/- 2.5 ppm = 2078.750 Hz | | | | |
|--|---------------------------------|---|-------------|-------------|
| Power Supply (Vdc) | Environment Temperature (°C) | Frequency Deviation Measured with Time Elapse | | |
| | | (MHz) | Delta (ppm) | Limit (ppm) |
| 3.80 | 20 | 831.499996 | 0 | 2.5 |
| 4.20 | 20 | 831.499995 | 0.001 | 2.5 |
| 3.40 | 20 | 831.499997 | -0.001 | 2.5 |

LTE BAND 26 – 831.5 MHz, 16QAM

| Reference Frequency: LTE Band 26_Mid Channel 831.499994 MHz @ 20°C Limit: to stay +/- 2.5 ppm = 2078.750 Hz | | | | |
|--|---------------------------------|---|-------------|-------------|
| Power Supply (Vdc) | Environment Temperature (°C) | Frequency Deviation Measured with Time Elapse | | |
| | | (MHz) | Delta (ppm) | Limit (ppm) |
| 3.80 | 50 | 831.499994 | 0.000 | 2.5 |
| 3.80 | 40 | 831.499995 | -0.001 | 2.5 |
| 3.80 | 30 | 831.499995 | -0.001 | 2.5 |
| 3.80 | 20 | 831.499994 | 0 | 2.5 |
| 3.80 | 10 | 831.499995 | -0.001 | 2.5 |
| 3.80 | 0 | 831.499996 | -0.002 | 2.5 |
| 3.80 | -10 | 831.499996 | -0.002 | 2.5 |
| 3.80 | -20 | 831.499996 | -0.002 | 2.5 |
| 3.80 | -30 | 831.499997 | -0.004 | 2.5 |

| Reference Frequency: LTE Band 26_Mid Channel 831.499994 MHz @ 20°C Limit: to stay +/- 2.5 ppm = 2078.750 Hz | | | | |
|--|---------------------------------|---|-------------|-------------|
| Power Supply (Vdc) | Environment Temperature (°C) | Frequency Deviation Measured with Time Elapse | | |
| | | (MHz) | Delta (ppm) | Limit (ppm) |
| 3.80 | 20 | 831.499995 | 0 | 2.5 |
| 4.20 | 20 | 831.499995 | 0.000 | 2.5 |
| 3.40 | 20 | 831.499996 | -0.001 | 2.5 |

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.

24.232(c) - Mobile/portable stations are limited to 2 watts e.i.r.p. peak power and the equipment must employ means to limit the power to the minimum necessary for successful communications.

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.

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.

TEST PROCEDURE

ANSI / TIA / EIA 603C Clause 2.2.17

MODES TESTED

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

RESULTS

LAT BAND 2

LAT EIRP LTE Band 2 (1.4 MHz BAND WIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP (Peak) | |
|-------------------|------------|---------|--------------|--------|
| | | | dBm | mW |
| 1.4MHz Band QPSK | 6/0 | 1850.7 | 28.55 | 716.14 |
| | | 1880.0 | 27.63 | 579.43 |
| | | 1909.3 | 27.22 | 527.23 |
| 1.4MHz Band 16QAM | 6/0 | 1850.7 | 27.55 | 568.85 |
| | | 1880.0 | 26.63 | 460.26 |
| | | 1909.3 | 26.22 | 418.79 |

LAT EIRP LTE Band 2 (3.0 MHz BAND WIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP (Peak) | |
|-------------------|------------|---------|--------------|--------|
| | | | dBm | mW |
| 3.0MHz Band QPSK | 15/0 | 1851.5 | 29.15 | 822.24 |
| | | 1880.0 | 28.23 | 665.27 |
| | | 1908.5 | 27.32 | 539.51 |
| 3.0MHz Band 16QAM | 15/0 | 1851.5 | 28.15 | 653.13 |
| | | 1880.0 | 27.23 | 528.45 |
| | | 1908.5 | 26.32 | 428.55 |

LAT EIRP LTE Band 2 (5.0 MHz BAND WIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP (Peak) | |
|-------------------|------------|---------|--------------|---------|
| | | | dBm | mW |
| 5.0MHz Band QPSK | 25/0 | 1852.5 | 30.10 | 1023.29 |
| | | 1880.0 | 29.53 | 897.43 |
| | | 1907.5 | 28.52 | 711.21 |
| 5.0MHz Band 16QAM | 25/0 | 1852.5 | 29.07 | 807.24 |
| | | 1880.0 | 28.43 | 696.63 |
| | | 1907.5 | 27.42 | 552.08 |

LAT EIRP LTE Band 2 (10.0 MHz BAND WIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP (Peak) | |
|--------------------|------------|---------|--------------|---------|
| | | | dBm | mW |
| 10.0MHz Band QPSK | 50/0 | 1855.0 | 30.35 | 1083.93 |
| | | 1880.0 | 29.43 | 877.00 |
| | | 1905.0 | 29.32 | 855.07 |
| 10.0MHz Band 16QAM | 50/0 | 1855.0 | 29.65 | 922.57 |
| | | 1880.0 | 28.53 | 712.85 |
| | | 1905.0 | 28.22 | 663.74 |

LAT EIRP LTE Band 2 (15.0 MHz BAND WIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP (Peak) | |
|---------------------|------------|---------|--------------|---------|
| | | | dBm | mW |
| 15MHz Band QPSK | 75/0 | 1857.5 | 30.45 | 1109.17 |
| | | 1880.0 | 30.03 | 1006.93 |
| | | 1902.5 | 29.62 | 916.22 |
| 15MHz Band 16QAM | 75/0 | 1857.5 | 29.55 | 901.57 |
| | | 1880.0 | 29.05 | 803.53 |
| | | 1902.5 | 28.62 | 727.78 |

LAT EIRP LTE Band 2 (20.0 MHz BAND WIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP (Peak) | |
|----------------------|------------|---------|--------------|---------|
| | | | dBm | mW |
| 20.0MHz Band QPSK | 100/0 | 1860.0 | 30.81 | 1205.04 |
| | | 1880.0 | 30.13 | 1030.39 |
| | | 1900.0 | 30.12 | 1028.02 |
| 20MHz Band 16QAM | 100/0 | 1860.0 | 29.77 | 948.42 |
| | | 1880.0 | 29.06 | 805.38 |
| | | 1900.0 | 29.22 | 835.60 |

LAT BAND 4

LAT EIRP LTE Band 4 (1.4 MHz BAND WIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP(Peak) | |
|-----------------------|------------|---------|--------------|--------|
| | | | dBm | mW |
| 1.4 MHZ BAND QPSK | 6/0 | 1710.7 | 26.04 | 401.79 |
| | | 1732.5 | 26.26 | 422.67 |
| | | 1754.3 | 27.31 | 538.27 |
| 1.4 MHZ BAND 16QAM | 6/0 | 1710.7 | 25.04 | 319.15 |
| | | 1732.5 | 25.26 | 335.74 |
| | | 1754.3 | 26.31 | 427.56 |

LAT EIRP LTE Band 4 (3.0 MHz BAND WIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP(Peak) | |
|-----------------------|------------|---------|--------------|--------|
| | | | dBm | mW |
| 3.0 MHZ BAND QPSK | 15/0 | 1711.5 | 27.04 | 505.82 |
| | | 1732.5 | 27.06 | 508.16 |
| | | 1753.5 | 27.31 | 538.27 |
| 3.0 MHZ BAND 16QAM | 15/0 | 1711.5 | 26.04 | 401.79 |
| | | 1732.5 | 26.16 | 413.05 |
| | | 1753.5 | 26.31 | 427.56 |

LAT EIRP LTE Band 4 (5.0 MHz BAND WIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP(Peak) | |
|-----------------------|------------|---------|--------------|--------|
| | | | dBm | mW |
| 5.0 MHZ BAND QPSK | 25/0 | 1712.5 | 26.04 | 401.79 |
| | | 1732.5 | 26.26 | 422.67 |
| | | 1752.5 | 26.31 | 427.56 |
| 5.0 MHZ BAND 16QAM | 25/0 | 1712.5 | 25.04 | 319.15 |
| | | 1732.5 | 25.26 | 335.74 |
| | | 1752.5 | 25.31 | 339.63 |

LAT EIRP LTE Band 4 (10.0 MHz BAND WIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP(Peak) | |
|------------------------|------------|---------|--------------|--------|
| | | | dBm | mW |
| 10.0 MHZ BAND QPSK | 50/0 | 1715.0 | 26.54 | 450.82 |
| | | 1732.5 | 26.76 | 474.24 |
| | | 1750.0 | 27.31 | 538.27 |
| 10.0 MHZ BAND 16QAM | 50/0 | 1715.0 | 25.54 | 358.10 |
| | | 1732.5 | 25.76 | 376.70 |
| | | 1750.0 | 26.31 | 427.56 |

LAT EIRP LTE Band 4 (15.0 MHz BAND WIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP(Peak) | |
|------------------------|------------|---------|--------------|--------|
| | | | dBm | mW |
| 15.0 MHZ BAND QPSK | 75/0 | 1717.5 | 26.04 | 401.79 |
| | | 1732.5 | 26.76 | 474.24 |
| | | 1747.5 | 26.81 | 479.73 |
| 15.0 MHZ BAND 16QAM | 75/0 | 1717.5 | 25.04 | 319.15 |
| | | 1732.5 | 25.76 | 376.70 |
| | | 1747.5 | 25.81 | 381.07 |

LAT EIRP LTE Band 4 (20.0 MHz BAND WIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP(Peak) | |
|------------------------|------------|---------|--------------|--------|
| | | | dBm | mW |
| 20.0 MHZ BAND QPSK | 100/0 | 1720.0 | 26.04 | 401.79 |
| | | 1732.5 | 26.56 | 452.90 |
| | | 1745.0 | 27.31 | 538.27 |
| 20.0 MHZ BAND 16QAM | 100/0 | 1720.0 | 24.94 | 311.89 |
| | | 1732.5 | 25.56 | 359.75 |
| | | 1745.0 | 26.11 | 408.32 |

LAT BAND 5

LAT ERP LTE Band 5 (1.4.0 MHz BAND WIDTH)

| Mode | RB/RB SIZE | f (MHz) | ERP (Average) | |
|-------------------|------------|---------|---------------|--------|
| | | | dBm | mW |
| 1.4MHz Band QPSK | 1/0 | 824.7 | 20.60 | 114.82 |
| | | 836.5 | 20.40 | 109.65 |
| | | 848.3 | 19.94 | 98.63 |
| 1.4MHz Band 16QAM | 1/0 | 824.7 | 19.60 | 91.20 |
| | | 836.5 | 19.40 | 87.10 |
| | | 848.3 | 19.04 | 80.17 |

LAT ERP LTE Band 5 (3.0 MHz BAND WIDTH)

| Mode | RB/RB SIZE | f (MHz) | ERP (Average) | |
|--------------------|------------|---------|---------------|--------|
| | | | dBm | mW |
| 3.0 MHZ BAND QPSK | 1/0 | 825.5 | 20.50 | 112.20 |
| | | 836.5 | 20.30 | 107.15 |
| | | 847.5 | 20.14 | 103.28 |
| 3.0 MHZ BAND 16QAM | 1/0 | 825.5 | 19.50 | 89.13 |
| | | 836.5 | 19.30 | 85.11 |
| | | 847.5 | 19.24 | 83.95 |

LAT ERP LTE Band 5 (5.0 MHz BAND WIDTH)

| Mode | RB/RB SIZE | f (MHz) | ERP (Average) | |
|-----------------|------------|---------|---------------|--------|
| | | | dBm | mW |
| 5MHz Band QPSK | 1/0 | 826.5 | 21.00 | 125.89 |
| | | 836.5 | 20.40 | 109.65 |
| | | 846.5 | 19.84 | 96.38 |
| 5MHz Band 16QAM | 1/0 | 826.5 | 20.10 | 102.33 |
| | | 836.5 | 19.40 | 87.10 |
| | | 846.5 | 18.94 | 78.34 |

LAT ERP LTE Band 5 (10.0 MHz BAND WIDTH)

| Mode | RB/RB SIZE | f (MHz) | ERP (Average) | |
|---------------------|------------|---------|---------------|--------|
| | | | dBm | mW |
| 10.0 MHZ BAND QPSK | 1/0 | 829.0 | 20.60 | 114.82 |
| | | 836.5 | 20.50 | 112.20 |
| | | 844.0 | 19.84 | 96.38 |
| 10.0 MHZ BAND 16QAM | 1/0 | 829.0 | 19.70 | 93.33 |
| | | 836.5 | 19.40 | 87.10 |
| | | 844.0 | 18.84 | 76.56 |

LAT BAND 13

LAT ERP LTE Band 13 (5.0 MHz BAND WIDTH)

| Mode | RB/RB SIZE | f (MHz) | ERP (Average) | |
|-----------------------|------------|---------|----------------|--------|
| | | | dBm | mW |
| 5.0 MHZ BAND QPSK | 1/0 | 779.5 | 21.00 | 125.89 |
| | | 782.0 | 21.60 | 144.54 |
| | | 784.5 | 21.70 | 147.91 |
| 5.0 MHZ BAND 16QAM | 1/0 | 779.5 | 20.00 | 100.00 |
| | | 782.0 | 20.50 | 112.20 |
| | | 784.5 | 21.80 | 151.36 |

LTE ERP BAND 13 (10.0 MHz BAND WIDTH)

| Mode | RB/RB SIZE | f (MHz) | ERP (Average) | |
|----------------------|------------|---------|---------------|--------|
| | | | dBm | mW |
| 10 MHZ BAND QPSK | 1/0 | 782.0 | 21.30 | 134.90 |
| 10 MHZ BAND 16QAM | 1/0 | | 20.30 | 107.15 |

LAT BAND 17

LAT ERP LTE Band 17 (5.0 MHz BAND WIDTH)

| Mode | RB/RB SIZE | f (MHz) | ERP (Average) | |
|--------------------|------------|---------|---------------|--------|
| | | | dBm | mW |
| 5MHz Band QPSK | 1/0 | 706.5 | 20.25 | 105.93 |
| | | 710.0 | 20.35 | 108.39 |
| | | 713.5 | 20.55 | 113.50 |
| 5MHz Band 16QAM | 1/0 | 706.5 | 19.25 | 84.14 |
| | | 710.0 | 19.35 | 86.10 |
| | | 713.5 | 19.65 | 92.26 |

LAT ERP LTE Band 17 (10.0 MHz BAND WIDTH)

| Mode | RB/RB SIZE | f (MHz) | ERP (Average) | |
|------------------------|------------|---------|---------------|--------|
| | | | dBm | mW |
| 10.0 MHZ BAND QPSK | 1/0 | 709.0 | 20.55 | 113.50 |
| | | 710.0 | 20.45 | 110.92 |
| | | 711.0 | 20.25 | 105.93 |
| 10.0 MHZ BAND 16QAM | 1/0 | 709.0 | 19.65 | 92.26 |
| | | 710.0 | 19.45 | 88.10 |
| | | 711.0 | 19.35 | 86.10 |

LAT BAND 25

LAT EIRP LTE Band 25 (1.4MHz BAND WIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP(Peak) | |
|-----------------------|------------|---------|--------------|--------|
| | | | dBm | mW |
| 1.4 MHZ BAND QPSK | 6/0 | 1850.7 | 29.35 | 860.99 |
| | | 1880.0 | 28.03 | 635.33 |
| | | 1914.3 | 28.42 | 695.02 |
| 1.4 MHZ BAND 16QAM | 6/0 | 1850.7 | 28.45 | 699.84 |
| | | 1880.0 | 26.93 | 493.17 |
| | | 1914.3 | 27.32 | 539.51 |

LAT EIRP LTE Band 25 (3.0MHz BAND WIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP(Peak) | |
|-----------------------|------------|---------|--------------|--------|
| | | | dBm | mW |
| 3.0 MHZ BAND QPSK | 15/0 | 1851.5 | 28.85 | 767.36 |
| | | 1880.0 | 28.03 | 635.33 |
| | | 1913.5 | 27.92 | 619.44 |
| 3.0 MHZ BAND 16QAM | 15/0 | 1851.5 | 27.95 | 623.73 |
| | | 1880.0 | 27.03 | 504.66 |
| | | 1913.5 | 26.72 | 469.89 |

LAT EIRP LTE Band 25 (5.0MHz BAND WIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP(Peak) | |
|-----------------------|------------|---------|--------------|--------|
| | | | dBm | mW |
| 5.0 MHZ BAND QPSK | 25/0 | 1852.5 | 29.65 | 922.57 |
| | | 1880.0 | 29.13 | 818.46 |
| | | 1912.5 | 29.02 | 797.99 |
| 5.0 MHZ BAND 16QAM | 25/0 | 1852.5 | 28.75 | 749.89 |
| | | 1880.0 | 28.23 | 665.27 |
| | | 1912.5 | 27.92 | 619.44 |

LAT EIRP LTE Band 25 (10.0MHz BAND WIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP(Peak) | |
|------------------------|------------|---------|--------------|--------|
| | | | dBm | mW |
| 10.0 MHZ BAND QPSK | 50/0 | 1855.0 | 29.55 | 901.57 |
| | | 1880.0 | 29.63 | 918.33 |
| | | 1910.0 | 29.72 | 937.56 |
| 10.0 MHZ BAND 16QAM | 50/0 | 1855.0 | 28.55 | 716.14 |
| | | 1880.0 | 28.53 | 712.85 |
| | | 1910.0 | 28.82 | 762.08 |

LAT EIRP LTE Band 25 (15.0MHz BAND WIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP(Peak) | |
|------------------------|------------|---------|--------------|---------|
| | | | dBm | mW |
| 15.0 MHZ BAND QPSK | 75/0 | 1857.5 | 30.25 | 1059.25 |
| | | 1880.0 | 29.83 | 961.61 |
| | | 1907.5 | 30.02 | 1004.62 |
| 15.0 MHZ BAND 16QAM | 75/0 | 1857.5 | 29.35 | 860.99 |
| | | 1880.0 | 28.83 | 763.84 |
| | | 1907.5 | 29.12 | 816.58 |

LAT EIRP LTE Band 25 (20.0MHz BAND WIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP(Peak) | |
|------------------------|------------|---------|--------------|---------|
| | | | dBm | mW |
| 20.0 MHZ BAND QPSK | 100/0 | 1860.0 | 30.65 | 1161.45 |
| | | 1880.0 | 29.93 | 984.01 |
| | | 1905.0 | 30.22 | 1051.96 |
| 20.0 MHZ BAND 16QAM | 100/0 | 1860.0 | 29.65 | 922.57 |
| | | 1880.0 | 28.93 | 781.63 |
| | | 1905.0 | 29.32 | 855.07 |

LAT BAND 26

LAT ERP LTE Band 26 (3.0 MHz BAND WIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP(Peak) | |
|-----------------------|------------|---------|--------------|--------|
| | | | dBm | mW |
| 3.0 MHZ BAND QPSK | 1/0 | 820.3 | 24.00 | 251.19 |
| | | 821.3 | 24.43 | 277.33 |
| | | 822.3 | 23.97 | 249.46 |
| 3.0 MHZ BAND 16QAM | 1/0 | 820.3 | 23.05 | 201.84 |
| | | 821.3 | 23.48 | 222.84 |
| | | 822.3 | 23.00 | 199.53 |

LAT ERP LTE Band 26 (5.0 MHz BAND WIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP(Peak) | |
|-----------------------|------------|---------|--------------|--------|
| | | | dBm | mW |
| 5.0 MHZ BAND QPSK | 1/0 | 821.3 | 25.24 | 334.20 |
| 5.0 MHZ BAND 16QAM | 1/0 | 821.3 | 24.30 | 269.15 |

UAT BAND 2

UAT EIRP LTE Band 2 (1.4 MHz BAND WIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP (Peak) | |
|-------------------|------------|---------|--------------|--------|
| | | | dBm | mW |
| 1.4MHz Band QPSK | 6/0 | 1850.7 | 25.15 | 327.34 |
| | | 1880.0 | 22.03 | 159.59 |
| | | 1909.3 | 22.62 | 182.81 |
| 1.4MHz Band 16QAM | 6/0 | 1850.7 | 24.05 | 254.10 |
| | | 1880.0 | 20.93 | 123.88 |
| | | 1909.3 | 21.52 | 141.91 |

UAT EIRP LTE Band 2 (3.0 MHz BAND WIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP (Peak) | |
|-------------------|------------|---------|--------------|--------|
| | | | dBm | mW |
| 3.0MHz Band QPSK | 15/0 | 1851.5 | 25.55 | 358.92 |
| | | 1880.0 | 22.63 | 183.23 |
| | | 1908.5 | 23.12 | 205.12 |
| 3.0MHz Band 16QAM | 15/0 | 1851.5 | 24.45 | 278.61 |
| | | 1880.0 | 21.63 | 145.55 |
| | | 1908.5 | 22.12 | 162.93 |

UAT EIRP LTE Band 2 (5.0 MHz BAND WIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP (Peak) | |
|-------------------|------------|---------|--------------|--------|
| | | | dBm | mW |
| 5.0MHz Band QPSK | 25/0 | 1852.5 | 26.05 | 402.72 |
| | | 1880.0 | 23.83 | 241.55 |
| | | 1907.5 | 24.02 | 252.35 |
| 5.0MHz Band 16QAM | 25/0 | 1852.5 | 25.05 | 319.89 |
| | | 1880.0 | 22.53 | 179.06 |
| | | 1907.5 | 22.92 | 195.88 |

UAT EIRP LTE Band 2 (10.0 MHz BAND WIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP (Peak) | |
|--------------------|------------|---------|--------------|--------|
| | | | dBm | mW |
| 10.0MHz Band QPSK | 50/0 | 1855.0 | 25.25 | 334.97 |
| | | 1880.0 | 25.63 | 365.59 |
| | | 1905.0 | 25.62 | 364.75 |
| 10.0MHz Band 16QAM | 50/0 | 1855.0 | 24.25 | 266.07 |
| | | 1880.0 | 24.43 | 277.33 |
| | | 1905.0 | 24.52 | 283.14 |

UAT EIRP LTE Band 2 (15.0 MHz BAND WIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP (Peak) | |
|------------------|------------|---------|--------------|--------|
| | | | dBm | mW |
| 15MHz Band QPSK | 75/0 | 1857.5 | 25.25 | 334.97 |
| | | 1880.0 | 23.93 | 247.17 |
| | | 1902.5 | 23.62 | 230.14 |
| 15MHz Band 16QAM | 75/0 | 1857.5 | 24.35 | 272.27 |
| | | 1880.0 | 23.03 | 200.91 |
| | | 1902.5 | 22.62 | 182.81 |

UAT EIRP LTE Band 2 (20.0 MHz BAND WIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP (Peak) | |
|-------------------|------------|---------|--------------|--------|
| | | | dBm | mW |
| 20.0MHz Band QPSK | 100/0 | 1860.0 | 25.35 | 342.77 |
| | | 1880.0 | 24.03 | 252.93 |
| | | 1900.0 | 24.02 | 252.35 |
| 20MHz Band 16QAM | 100/0 | 1860.0 | 24.45 | 278.61 |
| | | 1880.0 | 22.93 | 196.34 |
| | | 1900.0 | 22.92 | 195.88 |

UAT BAND 4

UAT EIRP LTE Band 4 (1.4 MHz BAND WIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP(Peak) | |
|--------------------|------------|---------|--------------|--------|
| | | | dBm | mW |
| 1.4 MHZ BAND QPSK | 6/0 | 1710.7 | 21.84 | 152.76 |
| | | 1732.5 | 23.36 | 216.77 |
| | | 1754.3 | 24.91 | 309.74 |
| 1.4 MHZ BAND 16QAM | 6/0 | 1710.7 | 20.74 | 118.58 |
| | | 1732.5 | 22.26 | 168.27 |
| | | 1754.3 | 23.91 | 246.04 |

UAT EIRP LTE Band 4 (3.0 MHz BAND WIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP(Peak) | |
|--------------------|------------|---------|--------------|--------|
| | | | dBm | mW |
| 3.0 MHZ BAND QPSK | 15/0 | 1711.5 | 20.04 | 100.93 |
| | | 1732.5 | 22.26 | 168.27 |
| | | 1753.5 | 23.31 | 214.29 |
| 3.0 MHZ BAND 16QAM | 15/0 | 1711.5 | 19.04 | 80.17 |
| | | 1732.5 | 21.26 | 133.66 |
| | | 1753.5 | 22.31 | 170.22 |

UAT EIRP LTE Band 4 (5.0 MHz BAND WIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP(Peak) | |
|--------------------|------------|---------|--------------|--------|
| | | | dBm | mW |
| 5.0 MHZ BAND QPSK | 25/0 | 1712.5 | 21.54 | 142.56 |
| | | 1732.5 | 22.26 | 168.27 |
| | | 1752.5 | 23.31 | 214.29 |
| 5.0 MHZ BAND 16QAM | 25/0 | 1712.5 | 20.54 | 113.24 |
| | | 1732.5 | 21.26 | 133.66 |
| | | 1752.5 | 22.31 | 170.22 |

UAT EIRP LTE Band 4 (10.0 MHz BAND WIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP(Peak) | |
|---------------------|------------|---------|--------------|--------|
| | | | dBm | mW |
| 10.0 MHZ BAND QPSK | 50/0 | 1715.0 | 20.54 | 113.24 |
| | | 1732.5 | 21.26 | 133.66 |
| | | 1750.0 | 22.31 | 170.22 |
| 10.0 MHZ BAND 16QAM | 50/0 | 1715.0 | 19.54 | 89.95 |
| | | 1732.5 | 20.26 | 106.17 |
| | | 1750.0 | 21.31 | 135.21 |

UAT EIRP LTE Band 4 (15.0 MHz BAND WIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP(Peak) | |
|---------------------|------------|---------|--------------|--------|
| | | | dBm | mW |
| 15.0 MHZ BAND QPSK | 75/0 | 1717.5 | 20.34 | 108.14 |
| | | 1732.5 | 21.26 | 133.66 |
| | | 1747.5 | 23.31 | 214.29 |
| 15.0 MHZ BAND 16QAM | 75/0 | 1717.5 | 19.34 | 85.90 |
| | | 1732.5 | 20.26 | 106.17 |
| | | 1747.5 | 22.31 | 170.22 |

UAT EIRP LTE Band 4 (20.0 MHz BAND WIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP(Peak) | |
|---------------------|------------|---------|--------------|--------|
| | | | dBm | mW |
| 20.0 MHZ BAND QPSK | 100/0 | 1720.0 | 20.54 | 113.24 |
| | | 1732.5 | 21.06 | 127.64 |
| | | 1745.0 | 23.21 | 209.41 |
| 20.0 MHZ BAND 16QAM | 100/0 | 1720.0 | 19.54 | 89.95 |
| | | 1732.5 | 20.06 | 101.39 |
| | | 1745.0 | 22.31 | 170.22 |

UAT BAND 5

UAT ERP LTE Band 5 (1.4.0 MHz BAND WIDTH)

| Mode | RB/RB SIZE | f (MHz) | ERP (Average) | |
|-------------------|------------|---------|---------------|-------|
| | | | dBm | mW |
| 1.4MHz Band QPSK | 1/0 | 824.7 | 11.60 | 14.45 |
| | | 836.5 | 11.34 | 13.61 |
| | | 848.3 | 11.30 | 13.49 |
| 1.4MHz Band 16QAM | 1/0 | 824.7 | 10.58 | 11.43 |
| | | 836.5 | 10.50 | 11.22 |
| | | 848.3 | 10.50 | 11.22 |

UAT ERP LTE Band 5 (3.0 MHz BAND WIDTH)

| Mode | RB/RB SIZE | f (MHz) | ERP (Average) | |
|--------------------|------------|---------|---------------|-------|
| | | | dBm | mW |
| 3.0 MHZ BAND QPSK | 1/0 | 825.5 | 10.60 | 11.48 |
| | | 836.5 | 11.62 | 14.52 |
| | | 847.5 | 11.60 | 14.45 |
| 3.0 MHZ BAND 16QAM | 1/0 | 825.5 | 9.80 | 9.55 |
| | | 836.5 | 11.00 | 12.59 |
| | | 847.5 | 10.20 | 10.47 |

UAT ERP LTE Band 5 (5.0 MHz BAND WIDTH)

| Mode | RB/RB SIZE | f (MHz) | ERP (Average) | |
|-----------------|------------|---------|---------------|-------|
| | | | dBm | mW |
| 5MHz Band QPSK | 1/0 | 826.5 | 11.50 | 14.13 |
| | | 836.5 | 11.10 | 12.88 |
| | | 846.5 | 10.80 | 12.02 |
| 5MHz Band 16QAM | 1/0 | 826.5 | 10.60 | 11.48 |
| | | 836.5 | 10.10 | 10.23 |
| | | 846.5 | 9.80 | 9.55 |

UAT ERP LTE Band 5 (10.0 MHz BAND WIDTH)

| Mode | RB/RB SIZE | f (MHz) | ERP (Average) | |
|---------------------|------------|---------|---------------|-------|
| | | | dBm | mW |
| 10.0 MHZ BAND QPSK | 1/0 | 829.0 | 11.40 | 13.80 |
| | | 836.5 | 12.20 | 16.60 |
| | | 844.0 | 10.90 | 12.30 |
| 10.0 MHZ BAND 16QAM | 1/0 | 829.0 | 10.60 | 11.48 |
| | | 836.5 | 11.30 | 13.49 |
| | | 844.0 | 10.10 | 10.23 |

UAT BAND 13

UAT ERP LTE Band 13 (5.0 MHz BAND WIDTH)

| Mode | RB/RB SIZE | f (MHz) | ERP (Average) | |
|--------------------|------------|---------|----------------|-------|
| | | | dBm | mW |
| 5.0 MHZ BAND QPSK | 1/0 | 779.5 | 12.80 | 19.05 |
| | | 782.0 | 12.40 | 17.38 |
| | | 784.5 | 12.00 | 15.85 |
| 5.0 MHZ BAND 16QAM | 1/0 | 779.5 | 12.00 | 15.85 |
| | | 782.0 | 11.70 | 14.79 |
| | | 784.5 | 11.30 | 13.49 |

UAT ERP LTE BAND 13 (10.0 MHz BAND WIDTH)

| Mode | RB/RB SIZE | f (MHz) | ERP (Average) | |
|-------------------|------------|---------|---------------|-------|
| | | | dBm | mW |
| 10 MHZ BAND QPSK | 1/0 | 782.0 | 13.30 | 21.38 |
| 10 MHZ BAND 16QAM | 1/0 | | 12.50 | 17.78 |

UAT BAND 17

UAT ERP LTE Band 17 (5.0 MHz BAND WIDTH)

| Mode | RB/RB SIZE | f (MHz) | ERP (Average) | |
|-----------------|------------|---------|---------------|-------|
| | | | dBm | mW |
| 5MHz Band QPSK | 1/0 | 706.5 | 13.65 | 23.17 |
| | | 710.0 | 13.40 | 21.88 |
| | | 713.5 | 13.47 | 22.23 |
| 5MHz Band 16QAM | 1/0 | 706.5 | 12.40 | 17.38 |
| | | 710.0 | 12.20 | 16.60 |
| | | 713.5 | 12.31 | 17.02 |

UAT ERP LTE Band 17 (10.0 MHz BAND WIDTH)

| Mode | RB/RB SIZE | f (MHz) | ERP (Average) | |
|---------------------|------------|---------|---------------|-------|
| | | | dBm | mW |
| 10.0 MHZ BAND QPSK | 1/0 | 709.0 | 14.40 | 27.54 |
| | | 710.0 | 14.40 | 27.54 |
| | | 711.0 | 14.10 | 25.70 |
| 10.0 MHZ BAND 16QAM | 1/0 | 709.0 | 13.70 | 23.44 |
| | | 710.0 | 13.30 | 21.38 |
| | | 711.0 | 13.10 | 20.42 |

UAT BAND 25

UAT EIRP LTE Band 25 (1.4MHz BAND WIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP(Peak) | |
|--------------------|------------|---------|--------------|--------|
| | | | dBm | mW |
| 1.4 MHZ BAND QPSK | 6/0 | 1850.7 | 23.45 | 221.31 |
| | | 1880.0 | 21.33 | 135.83 |
| | | 1914.3 | 21.72 | 148.59 |
| 1.4 MHZ BAND 16QAM | 6/0 | 1850.7 | 22.55 | 179.89 |
| | | 1880.0 | 20.23 | 105.44 |
| | | 1914.3 | 20.62 | 115.35 |

UAT EIRP LTE Band 25 (3.0MHz BAND WIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP(Peak) | |
|--------------------|------------|---------|--------------|--------|
| | | | dBm | mW |
| 3.0 MHZ BAND QPSK | 15/0 | 1851.5 | 24.95 | 312.61 |
| | | 1880.0 | 22.23 | 167.11 |
| | | 1913.5 | 22.72 | 187.07 |
| 3.0 MHZ BAND 16QAM | 15/0 | 1851.5 | 23.95 | 248.31 |
| | | 1880.0 | 21.23 | 132.74 |
| | | 1913.5 | 21.82 | 152.05 |

UAT EIRP LTE Band 25 (5.0MHz BAND WIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP(Peak) | |
|--------------------|------------|---------|--------------|--------|
| | | | dBm | mW |
| 5.0 MHZ BAND QPSK | 25/0 | 1852.5 | 25.55 | 358.92 |
| | | 1880.0 | 22.93 | 196.34 |
| | | 1912.5 | 24.12 | 258.23 |
| 5.0 MHZ BAND 16QAM | 25/0 | 1852.5 | 24.35 | 272.27 |
| | | 1880.0 | 21.53 | 142.23 |
| | | 1912.5 | 23.22 | 209.89 |

UAT EIRP LTE Band 25 (10.0MHz BAND WIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP(Peak) | |
|---------------------|------------|---------|--------------|--------|
| | | | dBm | mW |
| 10.0 MHZ BAND QPSK | 50/0 | 1855.0 | 25.95 | 393.55 |
| | | 1880.0 | 23.23 | 210.38 |
| | | 1910.0 | 23.72 | 235.50 |
| 10.0 MHZ BAND 16QAM | 50/0 | 1855.0 | 24.95 | 312.61 |
| | | 1880.0 | 22.03 | 159.59 |
| | | 1910.0 | 22.72 | 187.07 |

UAT EIRP LTE Band 25 (15.0MHz BAND WIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP(Peak) | |
|------------------------|------------|---------|--------------|--------|
| | | | dBm | mW |
| 15.0 MHZ BAND QPSK | 75/0 | 1857.5 | 25.45 | 350.75 |
| | | 1880.0 | 23.03 | 200.91 |
| | | 1907.5 | 22.72 | 187.07 |
| 15.0 MHZ BAND 16QAM | 75/0 | 1857.5 | 24.55 | 285.10 |
| | | 1880.0 | 22.03 | 159.59 |
| | | 1907.5 | 23.82 | 240.99 |

UAT EIRP LTE Band 25 (20.0MHz BAND WIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP(Peak) | |
|------------------------|------------|---------|--------------|--------|
| | | | dBm | mW |
| 20.0 MHZ BAND QPSK | 100/0 | 1860.0 | 25.35 | 342.77 |
| | | 1880.0 | 23.53 | 225.42 |
| | | 1905.0 | 23.42 | 219.79 |
| 20.0 MHZ BAND 16QAM | 100/0 | 1860.0 | 24.35 | 272.27 |
| | | 1880.0 | 22.33 | 171.00 |
| | | 1905.0 | 22.22 | 166.72 |

UAT BAND 26

UAT ERP LTE Band 26 (3.0 MHz BAND WIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP(Peak) | |
|-----------------------|------------|---------|--------------|-------|
| | | | dBm | mW |
| 3.0 MHZ BAND QPSK | 1/0 | 820.3 | 14.80 | 30.20 |
| | | 821.3 | 15.08 | 32.21 |
| | | 822.3 | 14.60 | 28.84 |
| 3.0 MHZ BAND 16QAM | 1/0 | 820.3 | 13.80 | 23.99 |
| | | 821.3 | 14.10 | 25.70 |
| | | 822.3 | 13.60 | 22.91 |

UAT ERP LTE Band 26 (5.0 MHz BAND WIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP(Peak) | |
|-----------------------|------------|---------|------------|--------|
| | | | dBm | mW |
| 5.0 MHZ BAND QPSK | 1/0 | 821.3 | 24.4 | 275.42 |
| 5.0 MHZ BAND 16QAM | 1/0 | 821.3 | 23.4 | 218.78 |

9.1.1. LAT LTE BAND 2

EIRP LTE QPSK Band 2 (1.4 MHz BAND WIDTH)

PEAK

High Frequency Fundamental Measurement
Compliance Certification Services Chamber D

| | |
|-----------------------|-----------------------|
| Company: | Apple |
| Project #: | 13U14987 |
| Date: | 05/31/13 |
| Test Engineer: | Roy Zheng |
| Configuration: | EUT Only |
| Mode: | LTE band 2, 1.4MHz BW |
| | QPSK, Peak, RB6-0 |

Test Equipment:

Receiving: Horn T59, and Chamber B SMA Cables

Substitution: Horn T217 Substitution, 4ft SMA Cable (244639001) Warehouse

| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
|----------|---------------------|--------------------|--------------------|-----------------------|---------------|----------------|---------------|-------|
| Low Ch | | | | | | | | |
| 1.851 | 13.2 | V | 0.85 | 7.94 | 20.29 | 33.0 | -12.7 | |
| 1.851 | 20.6 | H | 0.85 | 8.80 | 28.55 | 33.0 | -4.5 | |
| Mid Ch | | | | | | | | |
| 1.880 | 12.6 | V | 0.85 | 7.95 | 19.65 | 33.0 | -13.4 | |
| 1.880 | 19.8 | H | 0.85 | 8.68 | 27.63 | 33.0 | -5.4 | |
| High Ch | | | | | | | | |
| 1.909 | 12.3 | V | 0.85 | 7.97 | 19.45 | 33.0 | -13.6 | |
| 1.909 | 19.5 | H | 0.85 | 8.57 | 27.22 | 33.0 | -5.8 | |

Rev. 3.17.11

EIRP LTE 16QAM Band 2 (1.4 MHz BAND WIDTH)

| High Frequency Fundamental Measurement Compliance Certification Services Chamber D | | | | | | | | |
|---|---------------------|-----------------------|--------------------|-----------------------|---------------|----------------|---------------|-------|
| Company: | | Apple | | | | | | |
| Project #: | | 13U14987 | | | | | | |
| Date: | | 05/31/13 | | | | | | |
| Test Engineer: | | Roy Zheng | | | | | | |
| Configuration: | | EUT Only | | | | | | |
| Mode: | | LTE band 2, 1.4MHz BW | | | | | | |
| | | 16QAM, Peak, RB6-0 | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T59, and Chamber D SMA Cables | | | | | | | | |
| Substitution: Horn T217 Substitution, 4ft SMA Cable (244639001) Warehouse | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch | | | | | | | | |
| 1.851 | 12.2 | V | 0.85 | 7.94 | 19.29 | 33.0 | -13.7 | |
| 1.851 | 19.6 | H | 0.85 | 8.80 | 27.55 | 33.0 | -5.5 | |
| Mid Ch | | | | | | | | |
| 1.880 | 11.6 | V | 0.85 | 7.95 | 18.65 | 33.0 | -14.4 | |
| 1.880 | 18.8 | H | 0.85 | 8.68 | 26.63 | 33.0 | -6.4 | |
| High Ch | | | | | | | | |
| 1.909 | 11.3 | V | 0.85 | 7.97 | 18.45 | 33.0 | -14.6 | |
| 1.909 | 18.5 | H | 0.85 | 8.57 | 26.22 | 33.0 | -6.8 | |
| Rev. 3.17.11 | | | | | | | | |

EIRP LTE QPSK Band 2 (3.0 MHz BAND WIDTH)

| High Frequency Fundamental Measurement Compliance Certification Services Chamber D | | | | | | | | |
|---|---------------------|---------------------|--------------------|-----------------------|---------------|----------------|---------------|-------|
| Company: | | Apple | | | | | | |
| Project #: | | 13U14987 | | | | | | |
| Date: | | 05/31/13 | | | | | | |
| Test Engineer: | | Roy Zheng | | | | | | |
| Configuration: | | EUT Only | | | | | | |
| Mode: | | LTE band 2, 3MHz BW | | | | | | |
| | | QPSK, Peak, RB15-0 | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T59, and Chamber B SMA Cables | | | | | | | | |
| Substitution: Horn T217 Substitution, 4ft SMA Cable (244639001) Warehouse | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch | | | | | | | | |
| 1.852 | 14.9 | V | 0.85 | 7.94 | 21.99 | 33.0 | -11.0 | |
| 1.852 | 21.2 | H | 0.85 | 8.80 | 29.15 | 33.0 | -3.9 | |
| Mid Ch | | | | | | | | |
| 1.880 | 12.3 | V | 0.85 | 7.95 | 19.35 | 33.0 | -13.7 | |
| 1.880 | 20.4 | H | 0.85 | 8.68 | 28.23 | 33.0 | -4.8 | |
| High Ch | | | | | | | | |
| 1.909 | 10.9 | V | 0.85 | 7.97 | 18.05 | 33.0 | -15.0 | |
| 1.909 | 19.6 | H | 0.85 | 8.57 | 27.32 | 33.0 | -5.7 | |
| Rev. 3.17.11 | | | | | | | | |

EIRP LTE 16QAM Band 2 (3.0 MHz BAND WIDTH)

| High Frequency Fundamental Measurement Compliance Certification Services Chamber D | | | | | | | | |
|---|---------------------|--|--------------------|-----------------------|---------------|----------------|---------------|-------|
| Company: | | Apple | | | | | | |
| Project #: | | 13U14987 | | | | | | |
| Date: | | 05/31/13 | | | | | | |
| Test Engineer: | | Roy Zheng | | | | | | |
| Configuration: | | EUT Only | | | | | | |
| Mode: | | LTE band 2, 3MHz BW 16QAM, Peak, RB15-0 | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T59, and Chamber D SMA Cables | | | | | | | | |
| Substitution: Horn T217 Substitution, 4ft SMA Cable (244639001) Warehouse | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch | | | | | | | | |
| 1.852 | 13.8 | V | 0.85 | 7.94 | 20.89 | 33.0 | -12.1 | |
| 1.852 | 20.2 | H | 0.85 | 8.80 | 28.15 | 33.0 | -4.9 | |
| Mid Ch | | | | | | | | |
| 1.880 | 11.2 | V | 0.85 | 7.95 | 18.25 | 33.0 | -14.8 | |
| 1.880 | 19.4 | H | 0.85 | 8.68 | 27.23 | 33.0 | -5.8 | |
| High Ch | | | | | | | | |
| 1.909 | 9.9 | V | 0.85 | 7.97 | 17.05 | 33.0 | -16.0 | |
| 1.909 | 18.6 | H | 0.85 | 8.57 | 26.32 | 33.0 | -6.7 | |
| Rev. 3.17.11 | | | | | | | | |

EIRP LTE QPSK Band 2 (5.0 MHz BAND WIDTH)

| High Frequency Fundamental Measurement Compliance Certification Services Chamber D | | | | | | | | |
|---|---------------------|---------------------|--------------------|-----------------------|---------------|----------------|---------------|-------|
| Company: | | Apple | | | | | | |
| Project #: | | 13U14987 | | | | | | |
| Date: | | 05/31/13 | | | | | | |
| Test Engineer: | | Roy Zheng | | | | | | |
| Configuration: | | EUT Only | | | | | | |
| Mode: | | LTE band 2, 5MHz BW | | | | | | |
| | | QPSK, Peak, RB25-0 | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T59, and Chamber B SMA Cables | | | | | | | | |
| Substitution: Horn T217 Substitution, 4ft SMA Cable (244639001) Warehouse | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch | | | | | | | | |
| 1.853 | 16.4 | V | 0.85 | 7.94 | 23.49 | 33.0 | -9.5 | |
| 1.853 | 22.2 | H | 0.85 | 8.80 | 30.10 | 33.0 | -2.9 | |
| Mid Ch | | | | | | | | |
| 1.880 | 13.5 | V | 0.85 | 7.95 | 20.55 | 33.0 | -12.5 | |
| 1.880 | 21.7 | H | 0.85 | 8.68 | 29.53 | 33.0 | -3.5 | |
| High Ch | | | | | | | | |
| 1.908 | 16.6 | V | 0.85 | 7.97 | 23.75 | 33.0 | -9.3 | |
| 1.908 | 20.8 | H | 0.85 | 8.57 | 28.52 | 33.0 | -4.5 | |
| Rev. 3.17.11 | | | | | | | | |

EIRP LTE 16QAM Band 2 (5.0 MHz BAND WIDTH)

| High Frequency Fundamental Measurement Compliance Certification Services Chamber D | | | | | | | | | |
|---|---------------------|---------------------|--------------------|-----------------------|---------------|----------------|---------------|-------|--|
| Company: | | Apple | | | | | | | |
| Project #: | | 13U14987 | | | | | | | |
| Date: | | 05/31/13 | | | | | | | |
| Test Engineer: | | Roy Zheng | | | | | | | |
| Configuration: | | EUT Only | | | | | | | |
| Mode: | | LTE band 2, 5MHz BW | | | | | | | |
| | | 16QAM, Peak, RB25-0 | | | | | | | |
| Test Equipment: | | | | | | | | | |
| Receiving: Horn T59, and Chamber D SMA Cables | | | | | | | | | |
| Substitution: Horn T217 Substitution, 4ft SMA Cable (244639001) Warehouse | | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | |
| Low Ch | | | | | | | | | |
| 1.853 | 15.5 | V | 0.85 | 7.94 | 22.59 | 33.0 | -10.4 | | |
| 1.853 | 21.1 | H | 0.85 | 8.80 | 29.07 | 33.0 | -3.9 | | |
| Mid Ch | | | | | | | | | |
| 1.880 | 12.5 | V | 0.85 | 7.95 | 19.55 | 33.0 | -13.5 | | |
| 1.880 | 20.6 | H | 0.85 | 8.68 | 28.43 | 33.0 | -4.6 | | |
| High Ch | | | | | | | | | |
| 1.908 | 15.6 | V | 0.85 | 7.97 | 22.75 | 33.0 | -10.3 | | |
| 1.908 | 19.7 | H | 0.85 | 8.57 | 27.42 | 33.0 | -5.6 | | |
| Rev. 3.17.11 | | | | | | | | | |

EIRP LTE QPSK Band 2 (10.0 MHz BAND WIDTH)

| High Frequency Fundamental Measurement Compliance Certification Services Chamber D | | | | | | | | |
|---|---------------------|----------------------|--------------------|-----------------------|---------------|----------------|---------------|-------|
| Company: | | Apple | | | | | | |
| Project #: | | 13U14987 | | | | | | |
| Date: | | 05/31/13 | | | | | | |
| Test Engineer: | | Roy Zheng | | | | | | |
| Configuration: | | EUT Only | | | | | | |
| Mode: | | LTE band 2, 10MHz BW | | | | | | |
| | | QPSK, Peak, RB50-0 | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T59, and Chamber B SMA Cables | | | | | | | | |
| Substitution: Horn T217 Substitution, 4ft SMA Cable (244639001) Warehouse | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch | | | | | | | | |
| 1.855 | 18.5 | V | 0.85 | 7.94 | 25.59 | 33.0 | -7.4 | |
| 1.855 | 22.4 | H | 0.85 | 8.80 | 30.35 | 33.0 | -2.7 | |
| Mid Ch | | | | | | | | |
| 1.880 | 18.1 | V | 0.85 | 7.95 | 25.15 | 33.0 | -7.9 | |
| 1.880 | 21.6 | H | 0.85 | 8.68 | 29.43 | 33.0 | -3.6 | |
| High Ch | | | | | | | | |
| 1.905 | 18.0 | V | 0.85 | 7.97 | 25.15 | 33.0 | -7.9 | |
| 1.905 | 21.6 | H | 0.85 | 8.57 | 29.32 | 33.0 | -3.7 | |
| Rev. 3.17.11 | | | | | | | | |

EIRP LTE 16QAM Band 2 (10.0 MHz BAND WIDTH)

| High Frequency Fundamental Measurement Compliance Certification Services Chamber D | | | | | | | | | |
|---|---------------------|----------------------|--------------------|-----------------------|---------------|----------------|---------------|-------|--|
| Company: | | Apple | | | | | | | |
| Project #: | | 13U14987 | | | | | | | |
| Date: | | 05/31/13 | | | | | | | |
| Test Engineer: | | Roy Zheng | | | | | | | |
| Configuration: | | EUT Only | | | | | | | |
| Mode: | | LTE band 2, 10MHz BW | | | | | | | |
| | | 16QAM, Peak, RB50-0 | | | | | | | |
| Test Equipment: | | | | | | | | | |
| Receiving: Horn T59, and Chamber D SMA Cables | | | | | | | | | |
| Substitution: Horn T217 Substitution, 4ft SMA Cable (244639001) Warehouse | | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | |
| Low Ch | | | | | | | | | |
| 1.855 | 17.5 | V | 0.85 | 7.94 | 24.59 | 33.0 | -8.4 | | |
| 1.855 | 21.7 | H | 0.85 | 8.80 | 29.65 | 33.0 | -3.4 | | |
| Mid Ch | | | | | | | | | |
| 1.880 | 17.1 | V | 0.85 | 7.95 | 24.15 | 33.0 | -8.9 | | |
| 1.880 | 20.7 | H | 0.85 | 8.68 | 28.53 | 33.0 | -4.5 | | |
| High Ch | | | | | | | | | |
| 1.905 | 17.0 | V | 0.85 | 7.97 | 24.15 | 33.0 | -8.9 | | |
| 1.905 | 20.5 | H | 0.85 | 8.57 | 28.22 | 33.0 | -4.8 | | |
| Rev. 3.17.11 | | | | | | | | | |

EIRP LTE QPSK Band 2 (15.0 MHz BAND WIDTH)

| High Frequency Fundamental Measurement Compliance Certification Services Chamber D | | | | | | | | |
|---|---------------------|----------------------|--------------------|-----------------------|---------------|----------------|---------------|-------|
| Company: | | Apple | | | | | | |
| Project #: | | 13U14987 | | | | | | |
| Date: | | 05/31/13 | | | | | | |
| Test Engineer: | | Roy Zheng | | | | | | |
| Configuration: | | EUT Only | | | | | | |
| Mode: | | LTE band 2, 15MHz BW | | | | | | |
| | | QPSK, Peak, RB75-0 | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T59, and Chamber B SMA Cables | | | | | | | | |
| Substitution: Horn T217 Substitution, 4ft SMA Cable (244639001) Warehouse | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch | | | | | | | | |
| 1.858 | 18.4 | V | 0.85 | 7.94 | 25.44 | 33.0 | -7.6 | |
| 1.858 | 22.5 | H | 0.85 | 8.80 | 30.45 | 33.0 | -2.6 | |
| Mid Ch | | | | | | | | |
| 1.880 | 18.2 | V | 0.85 | 7.95 | 25.25 | 33.0 | -7.8 | |
| 1.880 | 22.2 | H | 0.85 | 8.68 | 30.03 | 33.0 | -3.0 | |
| High Ch | | | | | | | | |
| 1.903 | 18.1 | V | 0.85 | 7.97 | 25.25 | 33.0 | -7.8 | |
| 1.903 | 21.9 | H | 0.85 | 8.57 | 29.62 | 33.0 | -3.4 | |
| Rev. 3.17.11 | | | | | | | | |

EIRP LTE 16QAM Band 2 (15.0 MHz BAND WIDTH)

| High Frequency Fundamental Measurement Compliance Certification Services Chamber D | | | | | | | | | |
|---|---------------------|----------------------|--------------------|-----------------------|---------------|----------------|---------------|-------|--|
| Company: | | Apple | | | | | | | |
| Project #: | | 13U14987 | | | | | | | |
| Date: | | 05/31/13 | | | | | | | |
| Test Engineer: | | Roy Zheng | | | | | | | |
| Configuration: | | EUT Only | | | | | | | |
| Mode: | | LTE band 2, 15MHz BW | | | | | | | |
| | | 16QAM, Peak, RB75-0 | | | | | | | |
| Test Equipment: | | | | | | | | | |
| Receiving: Horn T59, and Chamber D SMA Cables | | | | | | | | | |
| Substitution: Horn T217 Substitution, 4ft SMA Cable (244639001) Warehouse | | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | |
| Low Ch | | | | | | | | | |
| 1.858 | 17.3 | V | 0.85 | 7.94 | 24.39 | 33.0 | -8.6 | | |
| 1.858 | 21.6 | H | 0.85 | 8.80 | 29.55 | 33.0 | -3.5 | | |
| Mid Ch | | | | | | | | | |
| 1.880 | 17.2 | V | 0.85 | 7.95 | 24.25 | 33.0 | -8.8 | | |
| 1.880 | 21.2 | H | 0.85 | 8.68 | 29.05 | 33.0 | -4.0 | | |
| High Ch | | | | | | | | | |
| 1.903 | 17.0 | V | 0.85 | 7.97 | 24.15 | 33.0 | -8.9 | | |
| 1.903 | 20.9 | H | 0.85 | 8.57 | 28.62 | 33.0 | -4.4 | | |
| Rev. 3.17.11 | | | | | | | | | |

EIRP LTE QPSK Band 2 (20.0 MHz BAND WIDTH)

| High Frequency Fundamental Measurement Compliance Certification Services Chamber D | | | | | | | | |
|---|---------------------|----------------------|--------------------|-----------------------|---------------|----------------|---------------|-------|
| Company: | | Apple | | | | | | |
| Project #: | | 13U14987 | | | | | | |
| Date: | | 05/30/13 | | | | | | |
| Test Engineer: | | Roy Zheng | | | | | | |
| Configuration: | | EUT Only | | | | | | |
| Mode: | | LTE band 2, 20MHz BW | | | | | | |
| | | QPSK, Peak, RB100-0 | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T59, and Chamber B SMA Cables | | | | | | | | |
| Substitution: Horn T217 Substitution, 4ft SMA Cable (244639001) Warehouse | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch | | | | | | | | |
| 1.860 | 17.8 | V | 0.85 | 7.94 | 24.93 | 33.0 | -8.1 | |
| 1.860 | 22.9 | H | 0.85 | 8.80 | 30.81 | 33.0 | -2.2 | |
| Mid Ch | | | | | | | | |
| 1.880 | 17.5 | V | 0.85 | 7.95 | 24.55 | 33.0 | -8.5 | |
| 1.880 | 22.3 | H | 0.85 | 8.68 | 30.13 | 33.0 | -2.9 | |
| High Ch | | | | | | | | |
| 1.900 | 17.5 | V | 0.85 | 7.97 | 24.65 | 33.0 | -8.4 | |
| 1.900 | 22.4 | H | 0.85 | 8.57 | 30.12 | 33.0 | -2.9 | |
| Rev. 3.17.11 | | | | | | | | |

EIRP LTE 16QAM Band 2 (20.0 MHz BAND WIDTH)

| High Frequency Fundamental Measurement Compliance Certification Services Chamber D | | | | | | | | | |
|---|---------------------|----------------------|--------------------|-----------------------|---------------|----------------|---------------|-------|--|
| Company: | | Apple | | | | | | | |
| Project #: | | 13U14987 | | | | | | | |
| Date: | | 05/30/13 | | | | | | | |
| Test Engineer: | | Roy Zheng | | | | | | | |
| Configuration: | | EUT Only | | | | | | | |
| Mode: | | LTE band 2, 20MHz BW | | | | | | | |
| | | 16QAM, Peak, RB100-0 | | | | | | | |
| Test Equipment: | | | | | | | | | |
| Receiving: Horn T59, and Chamber D SMA Cables | | | | | | | | | |
| Substitution: Horn T217 Substitution, 4ft SMA Cable (244639001) Warehouse | | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | |
| Low Ch | | | | | | | | | |
| 1.860 | 16.9 | V | 0.85 | 7.94 | 23.94 | 33.0 | -9.1 | | |
| 1.860 | 21.8 | H | 0.85 | 8.80 | 29.77 | 33.0 | -3.2 | | |
| Mid Ch | | | | | | | | | |
| 1.880 | 16.4 | V | 0.85 | 7.95 | 23.45 | 33.0 | -9.6 | | |
| 1.880 | 21.2 | H | 0.85 | 8.68 | 29.06 | 33.0 | -3.9 | | |
| High Ch | | | | | | | | | |
| 1.900 | 16.3 | V | 0.85 | 7.97 | 23.45 | 33.0 | -9.6 | | |
| 1.900 | 21.5 | H | 0.85 | 8.57 | 29.22 | 33.0 | -3.8 | | |
| Rev. 3.17.11 | | | | | | | | | |

9.1.2. LAT LTE BAND 4

EIRP LTE QPSK Band 4 (1.4 MHz BAND WIDTH)

PEAK

| High Frequency Fundamental Measurement Compliance Certification Services Chamber D | | | | | | | | |
|---|---------------------|--|--------------------|-----------------------|---------------|----------------|---------------|-------|
| Company: | | Apple | | | | | | |
| Project #: | | 13U14987 | | | | | | |
| Date: | | 05/31/13 | | | | | | |
| Test Engineer: | | Roy Zheng | | | | | | |
| Configuration: | | EUT Only | | | | | | |
| Mode: | | LTE band 4, 1.4MHz BW QPSK, Peak, RB6-0 | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T344, and Chamber B SMA Cables | | | | | | | | |
| Substitution: Horn T60 Substitution, 4ft SMA Cable (244639001) Warehouse | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch | | | | | | | | |
| 1.711 | 15.6 | V | 0.85 | 8.16 | 22.93 | 30.0 | -7.1 | |
| 1.711 | 18.3 | H | 0.85 | 8.59 | 26.04 | 30.0 | -4.0 | |
| Mid Ch | | | | | | | | |
| 1.733 | 15.4 | V | 0.85 | 8.11 | 22.69 | 30.0 | -7.3 | |
| 1.733 | 18.4 | H | 0.85 | 8.69 | 26.26 | 30.0 | -3.7 | |
| High Ch | | | | | | | | |
| 1.754 | 16.9 | V | 0.85 | 8.07 | 24.11 | 30.0 | -5.9 | |
| 1.754 | 19.4 | H | 0.85 | 8.79 | 27.31 | 30.0 | -2.7 | |
| Rev. 3.17.11 | | | | | | | | |

EIRP LTE 16QAM Band 4 (1.4 MHz BAND WIDTH)

| High Frequency Fundamental Measurement Compliance Certification Services Chamber D | | | | | | | | |
|---|---------------------|-----------------------|--------------------|-----------------------|---------------|----------------|---------------|-------|
| Company: | | Apple | | | | | | |
| Project #: | | 13U14987 | | | | | | |
| Date: | | 05/31/13 | | | | | | |
| Test Engineer: | | Roy Zheng | | | | | | |
| Configuration: | | EUT Only | | | | | | |
| Mode: | | LTE band 4, 1.4MHz BW | | | | | | |
| | | 16QAM, Peak, RB6-0 | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T344, and Chamber B SMA Cables | | | | | | | | |
| Substitution: Horn T60 Substitution, 4ft SMA Cable (244639001) Warehouse | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch | | | | | | | | |
| 1.711 | 14.6 | V | 0.85 | 8.16 | 21.93 | 30.0 | -8.1 | |
| 1.711 | 17.3 | H | 0.85 | 8.59 | 25.04 | 30.0 | -5.0 | |
| Mid Ch | | | | | | | | |
| 1.733 | 14.4 | V | 0.85 | 8.11 | 21.69 | 30.0 | -8.3 | |
| 1.733 | 17.4 | H | 0.85 | 8.69 | 25.26 | 30.0 | -4.7 | |
| High Ch | | | | | | | | |
| 1.754 | 15.9 | V | 0.85 | 8.07 | 23.11 | 30.0 | -6.9 | |
| 1.754 | 18.4 | H | 0.85 | 8.79 | 26.31 | 30.0 | -3.7 | |
| Rev. 3.17.11 | | | | | | | | |

EIRP LTE QPSK Band 4 (3.0 MHz BAND WIDTH)

| High Frequency Fundamental Measurement Compliance Certification Services Chamber D | | | | | | | | |
|---|---------------------|---------------------|--------------------|-----------------------|---------------|----------------|---------------|-------|
| Company: | | Apple | | | | | | |
| Project #: | | 13U14987 | | | | | | |
| Date: | | 05/31/13 | | | | | | |
| Test Engineer: | | Roy Zheng | | | | | | |
| Configuration: | | EUT Only | | | | | | |
| Mode: | | LTE band 4, 3MHz BW | | | | | | |
| | | QPSK, Peak, RB15-0 | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T344, and Chamber B SMA Cables | | | | | | | | |
| Substitution: Horn T60 Substitution, 4ft SMA Cable (244639001) Warehouse | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch | | | | | | | | |
| 1.712 | 17.6 | V | 0.85 | 8.16 | 24.93 | 30.0 | -5.1 | |
| 1.712 | 19.3 | H | 0.85 | 8.59 | 27.04 | 30.0 | -3.0 | |
| Mid Ch | | | | | | | | |
| 1.733 | 17.3 | V | 0.85 | 8.11 | 24.54 | 30.0 | -5.5 | |
| 1.733 | 19.2 | H | 0.85 | 8.69 | 27.06 | 30.0 | -2.9 | |
| High Ch | | | | | | | | |
| 1.754 | 17.3 | V | 0.85 | 8.07 | 24.51 | 30.0 | -5.5 | |
| 1.754 | 19.4 | H | 0.85 | 8.79 | 27.31 | 30.0 | -2.7 | |
| Rev. 3.17.11 | | | | | | | | |

EIRP LTE 16QAM Band 4 (3.0 MHz BAND WIDTH)

| High Frequency Fundamental Measurement Compliance Certification Services Chamber D | | | | | | | | |
|---|---------------------|---------------------|--------------------|-----------------------|---------------|----------------|---------------|-------|
| Company: | | Apple | | | | | | |
| Project #: | | 13U14987 | | | | | | |
| Date: | | 05/31/13 | | | | | | |
| Test Engineer: | | Roy Zheng | | | | | | |
| Configuration: | | EUT Only | | | | | | |
| Mode: | | LTE band 4, 3MHz BW | | | | | | |
| | | 16QAM, Peak, RB15-0 | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T344, and Chamber B SMA Cables | | | | | | | | |
| Substitution: Horn T60 Substitution, 4ft SMA Cable (244639001) Warehouse | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch | | | | | | | | |
| 1.712 | 16.1 | V | 0.85 | 8.16 | 23.43 | 30.0 | -6.6 | |
| 1.712 | 18.3 | H | 0.85 | 8.59 | 26.04 | 30.0 | -4.0 | |
| Mid Ch | | | | | | | | |
| 1.733 | 16.2 | V | 0.85 | 8.11 | 23.49 | 30.0 | -6.5 | |
| 1.733 | 18.3 | H | 0.85 | 8.69 | 26.16 | 30.0 | -3.8 | |
| High Ch | | | | | | | | |
| 1.754 | 16.3 | V | 0.85 | 8.07 | 23.51 | 30.0 | -6.5 | |
| 1.754 | 18.4 | H | 0.85 | 8.79 | 26.31 | 30.0 | -3.7 | |
| Rev. 3.17.11 | | | | | | | | |

EIRP LTE QPSK Band 4 (5.0 MHz BAND WIDTH)

| High Frequency Fundamental Measurement Compliance Certification Services Chamber D | | | | | | | | |
|---|---------------------|---------------------|--------------------|-----------------------|---------------|----------------|---------------|-------|
| Company: | | Apple | | | | | | |
| Project #: | | 13U14987 | | | | | | |
| Date: | | 05/31/13 | | | | | | |
| Test Engineer: | | Mona Hua | | | | | | |
| Configuration: | | EUT Only | | | | | | |
| Mode: | | LTE band 4, 5MHz BW | | | | | | |
| | | QPSK, Peak, RB25-0 | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T344, and Chamber B SMA Cables | | | | | | | | |
| Substitution: Horn T60 Substitution, 4ft SMA Cable (244639001) Warehouse | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch | | | | | | | | |
| 1.713 | 14.6 | V | 0.85 | 8.16 | 21.93 | 30.0 | -8.1 | |
| 1.713 | 18.3 | H | 0.85 | 8.59 | 26.04 | 30.0 | -4.0 | |
| Mid Ch | | | | | | | | |
| 1.733 | 14.4 | V | 0.85 | 8.11 | 21.69 | 30.0 | -8.3 | |
| 1.733 | 18.4 | H | 0.85 | 8.69 | 26.26 | 30.0 | -3.7 | |
| High Ch | | | | | | | | |
| 1.753 | 15.9 | V | 0.85 | 8.07 | 23.11 | 30.0 | -6.9 | |
| 1.753 | 18.4 | H | 0.85 | 8.79 | 26.31 | 30.0 | -3.7 | |
| Rev. 3.17.11 | | | | | | | | |

EIRP LTE 16QAM Band 4 (5.0 MHz BAND WIDTH)

| High Frequency Fundamental Measurement Compliance Certification Services Chamber D | | | | | | | | |
|---|---------------------|---------------------|--------------------|-----------------------|---------------|----------------|---------------|-------|
| Company: | | Apple | | | | | | |
| Project #: | | 13U14987 | | | | | | |
| Date: | | 05/31/13 | | | | | | |
| Test Engineer: | | Mona Hua | | | | | | |
| Configuration: | | EUT Only | | | | | | |
| Mode: | | LTE band 4, 5MHz BW | | | | | | |
| | | 16QAM, Peak, RB25-0 | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T344, and Chamber B SMA Cables | | | | | | | | |
| Substitution: Horn T60 Substitution, 4ft SMA Cable (244639001) Warehouse | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch | | | | | | | | |
| 1.713 | 13.6 | V | 0.85 | 8.16 | 20.93 | 30.0 | -9.1 | |
| 1.713 | 17.3 | H | 0.85 | 8.59 | 25.04 | 30.0 | -5.0 | |
| Mid Ch | | | | | | | | |
| 1.733 | 13.4 | V | 0.85 | 8.11 | 20.69 | 30.0 | -9.3 | |
| 1.733 | 17.4 | H | 0.85 | 8.69 | 25.26 | 30.0 | -4.7 | |
| High Ch | | | | | | | | |
| 1.753 | 14.9 | V | 0.85 | 8.07 | 22.11 | 30.0 | -7.9 | |
| 1.753 | 17.4 | H | 0.85 | 8.79 | 25.31 | 30.0 | -4.7 | |
| Rev. 3.17.11 | | | | | | | | |

EIRP LTE QPSK Band 4 (10.0 MHz BAND WIDTH)

| High Frequency Fundamental Measurement Compliance Certification Services Chamber D | | | | | | | | |
|---|---------------------|----------------------|--------------------|-----------------------|---------------|----------------|---------------|-------|
| Company: | | Apple | | | | | | |
| Project #: | | 13U14987 | | | | | | |
| Date: | | 05/31/13 | | | | | | |
| Test Engineer: | | Mona Hua | | | | | | |
| Configuration: | | EUT Only | | | | | | |
| Mode: | | LTE band 4, 10MHz BW | | | | | | |
| | | QPSK, Peak, RB50-0 | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T344, and Chamber B SMA Cables | | | | | | | | |
| Substitution: Horn T60 Substitution, 4ft SMA Cable (244639001) Warehouse | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch | | | | | | | | |
| 1.715 | 14.6 | V | 0.85 | 8.16 | 21.93 | 30.0 | -8.1 | |
| 1.715 | 18.8 | H | 0.85 | 8.59 | 26.54 | 30.0 | -3.5 | |
| Mid Ch | | | | | | | | |
| 1.733 | 15.4 | V | 0.85 | 8.11 | 22.69 | 30.0 | -7.3 | |
| 1.733 | 18.9 | H | 0.85 | 8.69 | 26.76 | 30.0 | -3.2 | |
| High Ch | | | | | | | | |
| 1.750 | 16.9 | V | 0.85 | 8.07 | 24.11 | 30.0 | -5.9 | |
| 1.750 | 19.4 | H | 0.85 | 8.79 | 27.31 | 30.0 | -2.7 | |
| Rev. 3.17.11 | | | | | | | | |

EIRP LTE 16QAM Band 4 (10.0 MHz BAND WIDTH)

| High Frequency Fundamental Measurement Compliance Certification Services Chamber D | | | | | | | | |
|---|---------------------|----------------------|--------------------|-----------------------|---------------|----------------|---------------|-------|
| Company: | | Apple | | | | | | |
| Project #: | | 13U14987 | | | | | | |
| Date: | | 05/31/13 | | | | | | |
| Test Engineer: | | Mona Hua | | | | | | |
| Configuration: | | EUT Only | | | | | | |
| Mode: | | LTE band 4, 10MHz BW | | | | | | |
| | | 16QAM, Peak, RB50-0 | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T59, and Chamber B SMA Cables | | | | | | | | |
| Substitution: Horn T217 Substitution, 4ft SMA Cable (244639001) Warehouse | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch | | | | | | | | |
| 1.715 | 13.6 | V | 0.85 | 8.16 | 20.93 | 30.0 | -9.1 | |
| 1.715 | 17.8 | H | 0.85 | 8.59 | 25.54 | 30.0 | -4.5 | |
| Mid Ch | | | | | | | | |
| 1.733 | 14.4 | V | 0.85 | 8.11 | 21.69 | 30.0 | -8.3 | |
| 1.733 | 17.9 | H | 0.85 | 8.69 | 25.76 | 30.0 | -4.2 | |
| High Ch | | | | | | | | |
| 1.750 | 15.9 | V | 0.85 | 8.07 | 23.11 | 30.0 | -6.9 | |
| 1.750 | 18.4 | H | 0.85 | 8.79 | 26.31 | 30.0 | -3.7 | |
| Rev. 3.17.11 | | | | | | | | |

EIRP LTE QPSK Band 4 (15.0 MHz BAND WIDTH)

| High Frequency Fundamental Measurement Compliance Certification Services Chamber D | | | | | | | | |
|---|---------------------|----------------------|--------------------|-----------------------|---------------|----------------|---------------|-------|
| Company: | | Apple | | | | | | |
| Project #: | | 13U14987 | | | | | | |
| Date: | | 05/31/13 | | | | | | |
| Test Engineer: | | Mona Hua | | | | | | |
| Configuration: | | EUT Only | | | | | | |
| Mode: | | LTE band 4, 15MHz BW | | | | | | |
| | | QPSK, Peak, RB75-0 | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T344, and Chamber B SMA Cables | | | | | | | | |
| Substitution: Horn T60 Substitution, 4ft SMA Cable (244639001) Warehouse | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch | | | | | | | | |
| 1.718 | 16.6 | V | 0.85 | 8.16 | 23.93 | 30.0 | -6.1 | |
| 1.718 | 18.3 | H | 0.85 | 8.59 | 26.04 | 30.0 | -4.0 | |
| Mid Ch | | | | | | | | |
| 1.733 | 16.4 | V | 0.85 | 8.11 | 23.69 | 30.0 | -6.3 | |
| 1.733 | 18.9 | H | 0.85 | 8.69 | 26.76 | 30.0 | -3.2 | |
| High Ch | | | | | | | | |
| 1.748 | 17.4 | V | 0.85 | 8.07 | 24.61 | 30.0 | -5.4 | |
| 1.748 | 18.9 | H | 0.85 | 8.79 | 26.81 | 30.0 | -3.2 | |
| Rev. 3.17.11 | | | | | | | | |

EIRP LTE 16QAM Band 4 (15.0 MHz BAND WIDTH)

| High Frequency Fundamental Measurement Compliance Certification Services Chamber D | | | | | | | | |
|---|---------------------|----------------------|--------------------|-----------------------|---------------|----------------|---------------|-------|
| Company: | | Apple | | | | | | |
| Project #: | | 13U14987 | | | | | | |
| Date: | | 05/31/13 | | | | | | |
| Test Engineer: | | Mona Hua | | | | | | |
| Configuration: | | EUT Only | | | | | | |
| Mode: | | LTE band 4, 15MHz BW | | | | | | |
| | | 16QAM, Peak, RB75-0 | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T344, and Chamber B SMA Cables | | | | | | | | |
| Substitution: Horn T60 Substitution, 4ft SMA Cable (244639001) Warehouse | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch | | | | | | | | |
| 1.718 | 15.6 | V | 0.85 | 8.16 | 22.93 | 30.0 | -7.1 | |
| 1.718 | 17.3 | H | 0.85 | 8.59 | 25.04 | 30.0 | -5.0 | |
| Mid Ch | | | | | | | | |
| 1.733 | 15.4 | V | 0.85 | 8.11 | 22.69 | 30.0 | -7.3 | |
| 1.733 | 17.9 | H | 0.85 | 8.69 | 25.76 | 30.0 | -4.2 | |
| High Ch | | | | | | | | |
| 1.748 | 16.4 | V | 0.85 | 8.07 | 23.61 | 30.0 | -6.4 | |
| 1.748 | 17.9 | H | 0.85 | 8.79 | 25.81 | 30.0 | -4.2 | |
| Rev. 3.17.11 | | | | | | | | |

EIRP LTE QPSK Band 4 (20.0 MHz BAND WIDTH)

| High Frequency Fundamental Measurement Compliance Certification Services Chamber D | | | | | | | | |
|---|---------------------|----------------------|--------------------|-----------------------|---------------|----------------|---------------|-------|
| Company: | | Apple | | | | | | |
| Project #: | | 13U14987 | | | | | | |
| Date: | | 05/31/13 | | | | | | |
| Test Engineer: | | Mona Hua | | | | | | |
| Configuration: | | EUT Only | | | | | | |
| Mode: | | LTE band 4, 20MHz BW | | | | | | |
| | | QPSK, Peak, RB100-0 | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T344, and Chamber B SMA Cables | | | | | | | | |
| Substitution: Horn T60 Substitution, 4ft SMA Cable (244639001) Warehouse | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch | | | | | | | | |
| 1.720 | 16.6 | V | 0.85 | 8.16 | 23.93 | 30.0 | -6.1 | |
| 1.720 | 18.3 | H | 0.85 | 8.59 | 26.04 | 30.0 | -4.0 | |
| Mid Ch | | | | | | | | |
| 1.733 | 16.4 | V | 0.85 | 8.11 | 23.69 | 30.0 | -6.3 | |
| 1.733 | 18.7 | H | 0.85 | 8.69 | 26.56 | 30.0 | -3.4 | |
| High Ch | | | | | | | | |
| 1.745 | 17.1 | V | 0.85 | 8.07 | 24.31 | 30.0 | -5.7 | |
| 1.745 | 19.4 | H | 0.85 | 8.79 | 27.31 | 30.0 | -2.7 | |
| Rev. 3.17.11 | | | | | | | | |

EIRP LTE 16QAM Band 4 (20.0 MHz BAND WIDTH)

**High Frequency Fundamental Measurement
Compliance Certification Services Chamber D**

Company: Apple
Project #: 13U14987
Date: 05/31/13
Test Engineer: Mona Hua
Configuration: EUT Only
Mode: LTE band 4, 20MHz BW
16QAM, Peak, RB100-0

Test Equipment:

Receiving: Horn T344, and Chamber B SMA Cables

Substitution: Horn T60 Substitution, 4ft SMA Cable (244639001) Warehouse

| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
|----------------|---------------------|--------------------|--------------------|-----------------------|---------------|----------------|---------------|-------|
| Low Ch | | | | | | | | |
| 1.720 | 17.0 | V | 0.85 | 8.16 | 24.33 | 30.0 | -5.7 | |
| 1.720 | 17.2 | H | 0.85 | 8.59 | 24.94 | 30.0 | -5.1 | |
| Mid Ch | | | | | | | | |
| 1.733 | 17.4 | V | 0.85 | 8.11 | 24.69 | 30.0 | -5.3 | |
| 1.733 | 17.7 | H | 0.85 | 8.69 | 25.56 | 30.0 | -4.4 | |
| High Ch | | | | | | | | |
| 1.745 | 17.6 | V | 0.85 | 8.07 | 24.81 | 30.0 | -5.2 | |
| 1.745 | 18.2 | H | 0.85 | 8.79 | 26.11 | 30.0 | -3.9 | |

Rev. 3.17.11