



**FCC 47 CFR PART 22 SUBPART H
FCC 47 CFR PART 24 SUBPART E
FCC 47 CFR PART 27 SUBPART M
FCC 47 CFR PART 90 SUBPART S**

**CERTIFICATION TEST REPORT
FOR
CDMA + WIFI + LTE MOBILE HOTSPOT**

MODEL NUMBER: AC778S

FCC ID: PY3AC778S

REPORT NUMBER: 13U15465-3, Revision A

ISSUE DATE: SEPTEMBER 27, 2013

Prepared for

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NVLAP LAB CODE 200065-0

Revision History

| Rev. | Issue Date | Revisions | Revised By |
|------|---------------|---|------------|
| --- | 9/10/13 | Initial Issue | P.Kim |
| A | 9/27/13 | Section 9 add calculation for external antenna; Add reference procedure | P.Kim |

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: NETGEAR INC
2200 FARADAY AVE.
CARLSBAD, CA 92008

EUT DESCRIPTION: CDMA BC0/1/10 (1xRTT, REV A);
LTE B25(1900)/B26/B41(2600). MOBILE HOTSPOT

MODEL: AC778S

SERIAL NUMBER: FS3282004304020E

DATE TESTED: AUG13 - SEP 9, 2013

| APPLICABLE STANDARDS | |
|-------------------------------|--------------|
| STANDARD | TEST RESULTS |
| FCC PART 22H, 24E,27M AND 90S | PASS |

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL Verification Services Inc. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government.

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with TIA-603-C, FCC CFR 47 Part 2, Part 22, Part 24, Part 27 and Part 90.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 Benicia Street, Fremont, California, USA.

UL Verification Services Inc. Verification Services Inc. is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at <http://www.ccsemc.com>.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards

4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

$$\text{Field Strength (dBuV/m)} = \text{Measured Voltage (dBuV)} + \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} - \text{Preamp Gain (dB)}$$

$$36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} = 28.9 \text{ dBuV/m}$$

4.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

| PARAMETER | UNCERTAINTY |
|---------------------------------------|-------------|
| Conducted Disturbance, 0.15 to 30 MHz | 3.52 dB |
| Radiated Disturbance, 30 to 1000 MHz | 4.94 dB |

Uncertainty figures are valid to a confidence level of 95%.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is a CDMA BC0/1/10 (1xRTT, REV A), LTE B25 (1900)/B26/B41 (2600), 1 TX ANT. MOBILE HOTSPOT.

5.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum peak of both conducted and ERP / EIRP output powers as follows:

Note: All power measurements for both radiated/conducted were based on integrated channel power measurement provided by test equipment.

| Part 22/24/90 | | | | | |
|-----------------------|-------------|-----------|-------|----------|-------|
| Frequency Range (MHz) | Modulation | Conducted | | ERP/EIRP | |
| | | Average | mW | Average | mW |
| 817.9-823.10 | BC10, 1xRTT | 23.80 | 239.9 | 28.26 | 669.9 |
| 817.9-823.10 | BC10, EVDO | 24.00 | 251.2 | 28.53 | 712.9 |
| 824.7 - 848.31 | BC0, 1xRTT | 23.60 | 229.1 | 28.30 | 676.1 |
| 824.7 - 848.31 | BC0, EVDO | 23.70 | 234.4 | 29.72 | 937.6 |
| 1851.25-1908.75 | BC1, 1xRTT | 23.40 | 218.8 | 28.56 | 717.8 |
| 1851.25-1908.75 | BC1, EVDO A | 23.50 | 223.9 | 25.99 | 397.2 |

| Part 24 LTE Band 25 MODE (3.0 MHz BANDWIDTH) | | | | | |
|--|---------------|--------------------|-------|---------------|-------|
| Frequency range (MHz) | Modulation | Conducted(Average) | | EIRP(Average) | |
| | | dBm | mW | dBm | mW |
| 1851.5 - 1913.5 | QPSK RB15-0 | 23.90 | 245.5 | 26.18 | 415.0 |
| 1851.5 - 1913.5 | 16QAM, RB15-0 | 23.40 | 218.8 | 25.60 | 363.1 |

| Part 24 LTE Band 25 MODE (5.0 MHz BANDWIDTH) | | | | | |
|--|---------------|--------------------|-------|---------------|-------|
| Frequency range (MHz) | Modulation | Conducted(Average) | | EIRP(Average) | |
| | | dBm | mW | dBm | mW |
| 1852.5 - 1912.5 | QPSK RB25-0 | 23.90 | 245.5 | 26.03 | 400.9 |
| 1852.5 - 1912.5 | 16QAM, RB25-0 | 23.30 | 213.8 | 25.55 | 358.9 |

| Part 24 LTE Band 25 MODE (10.0 MHz BANDWIDTH) | | | | | |
|---|---------------|--------------------|-------|---------------|-------|
| Frequency range (MHz) | Modulation | Conducted(Average) | | EIRP(Average) | |
| | | dBm | mW | dBm | mW |
| 1855 - 1910 | QPSK RB50-0 | 24.00 | 251.2 | 27.22 | 527.2 |
| 1855 - 1910 | 16QAM, RB50-0 | 23.50 | 223.9 | 26.52 | 448.7 |

| Part 90S LTE Band 26 MODE (1.4 MHz BANDWIDTH) | | | | | |
|---|--------------|--------------------|-------|--------------|-------|
| Frequency range (MHz) | Modulation | Conducted(Average) | | ERP(Average) | |
| | | dBm | mW | dBm | mW |
| 814.7 - 823.3 | QPSK RB6-0 | 23.57 | 227.5 | 24.79 | 301.3 |
| 814.7 - 823.3 | 16QAM, RB6-0 | 22.67 | 184.9 | 23.81 | 240.4 |

| Part 90S LTE Band 26 MODE (3.0 MHz BANDWIDTH) | | | | | |
|---|---------------|--------------------|-------|--------------|-------|
| Frequency range (MHz) | Modulation | Conducted(Average) | | ERP(Average) | |
| | | dBm | mW | dBm | mW |
| 815.5 - 822.5 | QPSK RB15-0 | 23.54 | 225.9 | 25.42 | 348.3 |
| 815.5 - 822.5 | 16QAM, RB15-0 | 22.64 | 183.7 | 24.22 | 264.2 |

| Part 90S LTE Band 26 MODE (5.0 MHz BANDWIDTH) | | | | | |
|---|---------------|--------------------|-------|--------------|-------|
| Frequency range (MHz) | Modulation | Conducted(Average) | | ERP(Average) | |
| | | dBm | mW | dBm | mW |
| 816.5 - 821.5 | QPSK RB25-0 | 23.65 | 231.7 | 25.97 | 395.4 |
| 816.5 - 821.5 | 16QAM, RB25-0 | 22.68 | 185.4 | 25.09 | 322.8 |

| Part 22 LTE Band 26 MODE (1.4 MHz BANDWIDTH) | | | | | |
|--|--------------|--------------------|-------|--------------|-------|
| Frequency range (MHz) | Modulation | Conducted(Average) | | ERP(Average) | |
| | | dBm | mW | dBm | mW |
| 824.7 - 848.3 | QPSK RB6-0 | 23.97 | 249.5 | 27.58 | 572.8 |
| 824.7 - 848.3 | 16QAM, RB6-0 | 23.06 | 202.3 | 26.82 | 480.8 |

| Part 22 LTE Band 26 MODE (3.0 MHz BANDWIDTH) | | | | | |
|--|---------------|--------------------|-------|--------------|-------|
| Frequency range (MHz) | Modulation | Conducted(Average) | | ERP(Average) | |
| | | dBm | mW | dBm | mW |
| 825.5 - 847.5 | QPSK RB15-0 | 23.83 | 241.5 | 27.90 | 616.6 |
| 825.5 - 847.5 | 16QAM, RB15-0 | 22.78 | 189.7 | 26.86 | 485.3 |

| Part 22 LTE Band 26 MODE (5.0 MHz BANDWIDTH) | | | | | |
|--|---------------|--------------------|-------|--------------|-------|
| Frequency range (MHz) | Modulation | Conducted(Average) | | ERP(Average) | |
| | | dBm | mW | dBm | mW |
| 826.5 - 846.5 | QPSK RB25-0 | 23.93 | 247.2 | 29.22 | 835.6 |
| 826.5 - 846.5 | 16QAM, RB25-0 | 22.91 | 195.4 | 28.42 | 695.0 |

| Part 27 LTE Band 41 MODE (10.0 MHz BANDWIDTH) | | | | | |
|---|---------------|--------------------|-------|---------------|-------|
| Frequency range (MHz) | Modulation | Conducted(Average) | | EIRP(Average) | |
| | | dBm | mW | dBm | mW |
| 2501 - 2685 | QPSK RB50-0 | 22.40 | 173.8 | 28.84 | 765.6 |
| 2501 - 2685 | 16QAM, RB50-0 | 21.80 | 151.4 | 28.68 | 737.9 |

| Part 27 LTE Band 41 MODE (15.0 MHz BANDWIDTH) | | | | | |
|---|---------------|--------------------|-------|---------------|-------|
| Frequency range (MHz) | Modulation | Conducted(Average) | | EIRP(Average) | |
| | | dBm | mW | dBm | mW |
| 2503.5 - 2682.5 | QPSK RB75-0 | 22.40 | 173.8 | 29.19 | 829.9 |
| 2503.5 - 2682.5 | 16QAM, RB75-0 | 21.90 | 154.9 | 29.20 | 831.8 |

| Part 27 LTE Band 41 MODE (20.0 MHz BANDWIDTH) | | | | | |
|---|----------------|--------------------|-------|---------------|--------|
| Frequency range (MHz) | Modulation | Conducted(Average) | | EIRP(Average) | |
| | | dBm | mW | dBm | mW |
| 2506 - 2680 | QPSK RB100-0 | 22.40 | 173.8 | 29.62 | 916.2 |
| 2506 - 2680 | 16QAM, RB100-0 | 21.90 | 154.9 | 30.02 | 1004.6 |

5.3. SOFTWARE AND FIRMWARE

The EUT is linked with CMW500 Test Set.

5.4. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes an integral antenna with a maximum peak gain as follow:

| LTE BANDS | Antenna Gain (dBi) |
|---------------------------------|--------------------|
| BC10, 817 – 824MHz | 0.5 |
| BC0, Cell 824 – 849MHz | 0.5 |
| BC1, PCS 1850 – 1910MHz | 2.5 |
| LTE Band 25, 1851.5 – 1913.5MHz | 2.5 |
| LTE Band 26, 817.7 – 847.5MHz | 0.5 |
| LTE Band 41, 2501 - 2685MHz | 3 |

The radio utilizes an external antenna with a maximum peak gain as follow:

| LTE BANDS | Antenna Gain (dBi) |
|---------------------------------|--------------------|
| BC10, 817 – 824MHz | 2 |
| BC0, Cell 824 – 849MHz | 2 |
| BC1, PCS 1850 – 1910MHz | 3.5 |
| LTE Band 25, 1851.5 – 1913.5MHz | 3.5 |
| LTE Band 26, 817.7 – 847.5MHz | 2 |
| LTE Band 41, 2501 - 2685MHz | 4.5 |

5.5. WORST-CASE CONFIGURATION AND MODE

The worst-case channel for RF radiated emissions below 1GHz tests is channel with highest RF output power.

The worst-case scenario for all measurements is based on the investigation results.

Worst-case modes below:

- For Cellular band: CDMA2000 1xEV-DO Rev A
- PCS band: CDMA2000 1xEV-DO Rev A
- LTE BAND 41

For the fundamental investigation of radiated emissions, the EUT is investigated for vertical and horizontal antenna orientations and X, Y, and Z orientation and the worst case was determined to be at Y position for PCS Band and LTE Band 41 and X position for Cellular Band and LTE Band 25 and 26.

5.6. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

RADIATED TESTS SUPPORT EQUIPMENT

I/O CABLES (RF Conducted Test)

| I/O CABLE LIST | | | | | | |
|----------------|-----------|----------------------|---------------------|-------------|--------------|---------|
| Cable No. | Port | # of Identical Ports | Connector Type | Cable Type | Cable Length | Remarks |
| 1 | RFOut | 1 | Directional Coupler | Un-shielded | 0.1m | NA |
| 2 | RF In/Out | 1 | Spectrum Analyzer | Un-shielded | None | NA |
| 3 | RF In/Out | 1 | Communications Test | Un-shielded | 1.2m | NA |

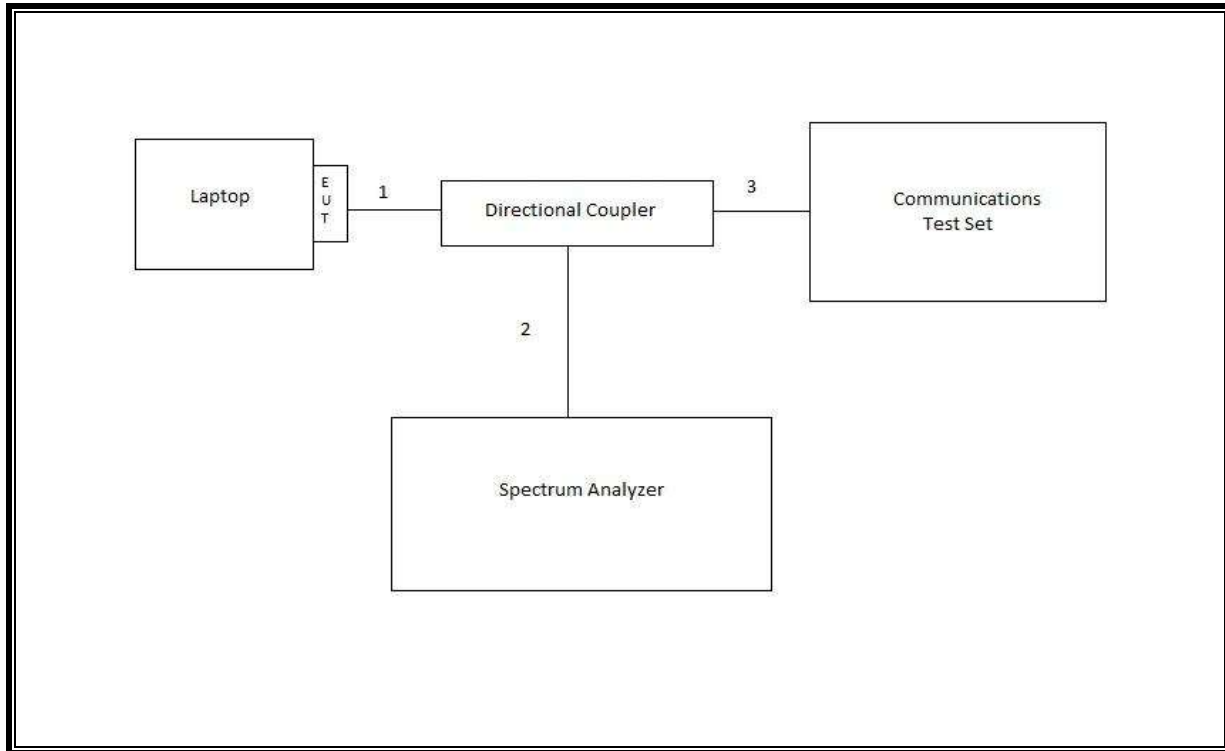
I/O CABLES

| I/O CABLE LIST | | | | | | |
|----------------|-----------|----------------------|------------------------|-------------|--------------|---------|
| Cable No. | Port | # of Identical Ports | Connector Type | Cable Type | Cable Length | Remarks |
| 1 | AC Power | 1 | 2-Prong | Un-Shielded | 1.5m | N/A |
| 2 | RF In/out | 1 | Communication Test Set | Un-shielded | 2m | N/A |

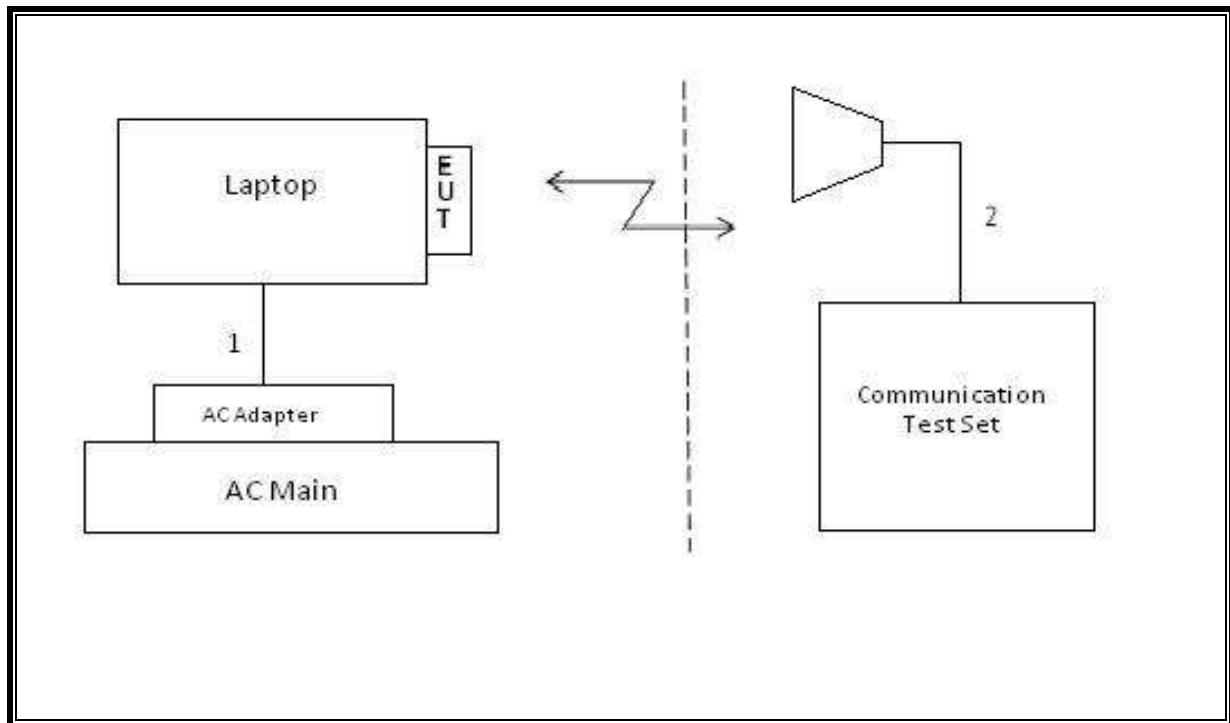
TEST SETUP

The EUT is connected to a laptop computer during the tests. Test software exercised the radio card.

CONDUCTED SETUP DIAGRAM FOR TESTS



RADIATED SETUP DIAGRAM FOR TEST



6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

| TEST EQUIPMENT LIST | | | | |
|-----------------------------------|--------------------|-------------|---------|-----------|
| Description | Manufacturer | Model | Asset | Cal Due |
| Spectrum Analyzer, 44 GHz | Agilent | N9030A | N/A | 4/1/14 |
| Spectrum Analyzer, 26.5 GHz | Agilent | E4440A | C01161 | 5/7/2014 |
| Spectrum Analyzer, 50 GHz | Agilent | PXA | 80125 | 1/22/2014 |
| True RMS Multimeter | Fluke | Model 87 | T361 | 3/18/2014 |
| Temperature / Humidity Controller | ProTemp Mechanical | 29800-C | N/A | 11/1/2013 |
| Temperature / Humidity Chamber | WATLOW | SK-3102 | N/A | CNR |
| Highpass Filter, 1.5 GHz | Micro-Tronics | HPM13193 | N02689` | CNR |
| Highpass Filter, 2.7 GHz | Micro-Tronics | HPM13194 | N02687 | CNR |
| Directional Coupler | RF-Lambda | RFDC5M06G15 | None | CNR |
| Vector signal generator, 6 GHz | Agilent / HP | E4438C | C01197 | 8/6/14 |
| Antenna, Tuned Dipole 400~1000 | ETS | 3121C DB4 | C00993 | 2/14/14 |
| Preamplifier, 26.5 GHz | Agilent / HP | 8449B | C80401 | 8/19/14 |
| Preamplifier, 26.5 GHz | Agilent / HP | 8449B | C01052 | 10/22/13 |
| Communication Test Set | R & S | CMW500 | C80580 | 2/19/14 |
| Antenna, Horn, 18 GHz | EMCO | 3115 | C00945 | 11/12/13 |
| Antenna, Horn, 18 GHz | ETS | 3117 | C01006 | 1/18/2014 |
| Antenna, Biconolog, 30-1000MHz | Sunol Sciences | JB1 | C01171 | 2/13/14 |

7. RF POWER OUTPUT VERIFICATION

7.1. 1xRTT

TEST PROCEDURE

Reference to KDB 971168 D01 v02r01

This procedure assumes the Agilent 8960 Test Set has the following applications installed and with valid license.

| <u>Application</u> | <u>Rev, License</u> |
|----------------------|---------------------|
| CDMA2000 Mobile Test | B.13.08, L |

- Call Setup > Shift & Preset
- Cell Info > Cell Parameters > System ID (SID) > 8
 > Network ID (NID) > 65535
- Protocol Rev > 6 (IS-2000-0)
- Radio Config (RC) > Please see following table or details
- FCH Service Option (SO) Setup > Please see following table or details
- Traffic Data Rate > Full
- TDSO SCH Info > F-SCH Parameters > F-SCH Data Rate > 153.6 kbps
 > R-SCH Parameters > R-SCH Data Rate > 153.6 kbps
- Rvs Power Ctrl > Active bits
 - Rvs Power Ctrl > All Up bits (Maximum TxPout)

RESULT

7.1.1. CDMA2000 OUTPUT POWER RESULT

1xRTT Measured Results

| Band | Mode | Ch | Freq.(MHz) | Avg Pwr (dBm) |
|-------|-------------------|------|------------|---------------|
| BC 0 | RC3 SO32 (+F-SCH) | 1013 | 824.7 | 23.6 |
| | | | 836.52 | 23.5 |
| | | | 848.31 | 23.5 |
| BC 1 | RC3 SO32 (+F-SCH) | 25 | 1851.25 | 22.9 |
| | | | 1880 | 23.4 |
| | | | 1908.75 | 23.0 |
| BC 10 | RC3 SO32 (+F-SCH) | 476 | 817.9 | 23.8 |
| | | | 820.5 | 23.8 |
| | | | 823.1 | 23.8 |

7.2. CDMA2000 1xEV-DO Rel. 0

TEST PROCEDURE

Reference to KDB 971168 D01 v02r01

This procedure assumes the Agilent 8960 Test Set has the following applications installed and with valid license.

| <u>Application</u> | <u>Rev, License</u> |
|-----------------------|---------------------|
| 1xEV-DO Terminal Test | A.09.13 |

EVDO Release 0 - RTAP

- Call Setup > Shift & Preset
- Call Control:
 - Access Network Info > Cell Parameters > Sector ID > 00000000 > Subnet Mask > 0
 - Generator Info > Termination Parameters > Max Forward Packet Duration > 16 Slots
- Call Params:
 - Cell Power > -105.5 dBm/1.23 MHz
 - Cell Band > (Select US Cellular or US PCS)
 - Channel > (Enter channel number)
 - Application Config > Enhanced Test Application Protocol > RTAP
 - RTAP Rate > 153.6 kbps
 - Rvs Power Ctrl > Active bits
 - Protocol Rel > 0 (1xEV-DO)
- Press "Start Data Connection" when "Session Open" appear in "Active Cell"
- Rvs Power Ctrl > All Up bits (Maximum TxPout)

EVDO Release 0 - FTAP

- Call Setup > Shift & Preset
- Call Control:
 - Access Network Info > Cell Parameters > Sector ID > 00000000 > Subnet Mask > 0
 - Generator Info > Termination Parameters > Max Forward Packet Duration > 16 Slots
- Call Params:
 - Cell Power > -105.5 dBm/1.23 MHz
 - Cell Band > (Select US Cellular or US PCS)
 - Channel > (Enter channel number)
 - Application Config > Enhanced Test Application Protocol > FTAP (default)
 - FTAP Rate > 307.2 kbps (2 Slot, QPSK)
 - Rvs Power Ctrl > Active bits
 - Protocol Rel > 0 (1xEV-DO)
- Press "Start Data Connection" when "Session Open" appear in "Active Cell"
- Rvs Power Ctrl > All Up bits (Maximum TxPout)

RESULTS

| Band | FTAP Rate | RTAP Rate | Channel | Freq. (MHz) | Avg Pwr (dBm) |
|------|------------------------------|------------|---------|-------------|---------------|
| BC 0 | 307.2 kbps (2 slot, QPSK) | 153.6 kbps | 1013 | 824.7 | 23.7 |
| | | | 384 | 836.52 | 23.6 |
| | | | 777 | 848.31 | 23.5 |
| BC1 | 307.2 kbps (2 slot, QPSK) | 153.6 kbps | 25 | 1851.25 | 23.0 |
| | | | 600 | 1880.0 | 23.5 |
| | | | 1175 | 1908.8 | 23.1 |
| BC10 | 307.2 kbps (2 slot, QPSK) | 153.6 kbps | 476 | 817.9 | 23.9 |
| | | | 580 | 820.5 | 23.9 |
| | | | 684 | 823.1 | 24.0 |

7.3. CDMA2000 1xEV-DO Rev. A

TEST PROCEDURE

Reference to KDB 971168 D01 v02r01

This procedure assumes the Agilent 8960 Test Set has the following applications installed and with valid license.

| <u>Application</u> | <u>Rev, License</u> |
|-----------------------|---------------------|
| 1xEV-DO Terminal Test | A.09.13 |

EVDO Release A – RETAP

- Call Setup > Shift & Preset
- Cell Power > -60 dBm/1.23 MHz
- Protocol Rev > A (1xEV-DO-A)
- Application Config > Enhanced Test Application Protocol > RETAP
- R-Data Pkt Size > 4096
- Protocol Subtype Config > Release A Physical Layer Subtype > Subtype 2
- > PL Subtype 2 Access Channel MAC Subtype > Default (Subtype 0)
- Access Network Info > Cell Parameters > Sector ID > 00000000 > Subnet Mask > 0
- Generator Info > Termination Parameters > Max Forward Packet Duration >16 Slots > ACK R-Data After > Subpacket 0 (All ACK)
- Rvs Power Ctrl > All Up bits (to get the maximum power)

EVDO Release A - FETAP

- Call Setup > Shift & Preset
- Cell Power > -60 dBm/1.23 MHz
- Protocol Rev > A (1xEV-DO-A)
- Application Config > Enhanced Test Application Protocol > FETAP
- F-Traffic Format > 4 (1024, 2,128) Canonical (307.2k, QPSK)
- Protocol Subtype Config > Release A Physical Layer Subtype > Subtype 2
- > PL Subtype 2 Access Channel MAC Subtype > Default (Subtype 0)
- Access Network Info > Cell Parameters > Sector ID > 00000000 > Subnet Mask > 0
- Generator Info > Termination Parameters > Max Forward Packet Duration >16 Slots > ACK R-Data After > Subpacket 0 (All ACK)
- Rvs Power Ctrl > All Up bits (to get the maximum power)

RESULTS

| Band | FETAP Traffic Format | RETAP Data Payload Size | Channel | Freq. (MHz) | Avg Pwr (dBm) |
|------|---|-------------------------|---------|-------------|---------------|
| BC 0 | 307.2k, QPSK/ ACK channel is transmitted at all the slots | 4096 | 1013 | 824.7 | 23.4 |
| | | | 384 | 836.52 | 23.3 |
| | | | 777 | 848.31 | 23.2 |
| BC1 | 307.2k, QPSK/ ACK channel is transmitted at all the slots | 4096 | 25 | 1851.25 | 22.6 |
| | | | 600 | 1880.0 | 23.1 |
| | | | 1175 | 1908.8 | 22.7 |
| BC10 | 307.2k, QPSK/ ACK channel is transmitted at all the slots | 4096 | 476 | 817.9 | 23.6 |
| | | | 580 | 820.5 | 23.7 |
| | | | 684 | 823.1 | 23.6 |

7.4. LTE BAND 25

| Band | Frequency (MHz) | Modulation | BW (MHz) | RB Size | RB Offset | Average Power (dBm) |
|-------|-----------------|------------|----------|---------|-----------|---------------------|
| LTE25 | 1851.5 | QPSK | 3 | 1 | 0 | 23.9 |
| | | | | 1 | 7 | 23.8 |
| | | | | 1 | 14 | 23.8 |
| | | | | 6 | 0 | 23.4 |
| | | | | 6 | 2 | 23.3 |
| | | | | 6 | 6 | 23.4 |
| | 15 | 0 | | 23.3 | | |
| | 1851.5 | 16QAM | | 1 | 0 | 23.4 |
| | | | | 1 | 7 | 23.3 |
| | | | | 1 | 14 | 23.2 |
| | | | | 6 | 0 | 22.4 |
| | | | | 6 | 2 | 22.4 |
| | | | | 6 | 6 | 22.4 |
| | 15 | 0 | | 22.3 | | |
| | 1882.5 | QPSK | | 1 | 0 | 23.6 |
| | | | | 1 | 7 | 23.5 |
| | | | | 1 | 14 | 23.5 |
| | | | | 6 | 0 | 23.1 |
| | | | | 6 | 2 | 23.0 |
| | | | | 6 | 6 | 23.0 |
| | 15 | 0 | | 22.9 | | |
| | 1882.5 | 16QAM | | 1 | 0 | 23.1 |
| | | | | 1 | 7 | 23.1 |
| | | | | 1 | 14 | 23.0 |
| | | | | 6 | 0 | 22.0 |
| | | | | 6 | 2 | 22.0 |
| | | | | 6 | 6 | 22.0 |
| | 15 | 0 | | 22.0 | | |
| | 1913.5 | QPSK | | 1 | 0 | 23.2 |
| | | | | 1 | 7 | 23.1 |
| | | | | 1 | 14 | 23.1 |
| | | | | 6 | 0 | 22.8 |
| | | | | 6 | 2 | 22.7 |
| | | | | 6 | 6 | 22.7 |
| | 15 | 0 | | 22.7 | | |
| | 1913.5 | 16QAM | | 1 | 0 | 22.5 |
| 1 | | | 7 | 22.5 | | |
| 1 | | | 14 | 22.4 | | |
| 6 | | | 0 | 21.8 | | |
| 6 | | | 2 | 21.7 | | |
| 6 | | | 6 | 21.7 | | |
| 15 | 0 | 21.7 | | | | |

| Band | Frequency (MHz) | Modulation | BW (MHz) | RB Size | RB Offset | Average Power (dBm) |
|-------|-----------------|------------|----------|---------|-----------|---------------------|
| LTE25 | 1852.5 | QPSK | 5 | 1 | 0 | 23.9 |
| | | | | 1 | 11 | 23.8 |
| | | | | 1 | 24 | 23.8 |
| | | | | 12 | 0 | 23.4 |
| | | | | 12 | 5 | 23.4 |
| | | | | 12 | 11 | 23.3 |
| | | | | 25 | 0 | 23.2 |
| | 1852.5 | 16QAM | | 1 | 0 | 23.3 |
| | | | | 1 | 11 | 23.1 |
| | | | | 1 | 24 | 23.0 |
| | | | | 12 | 0 | 22.4 |
| | | | | 12 | 5 | 22.4 |
| | | | | 12 | 11 | 22.3 |
| | | | | 25 | 0 | 22.2 |
| | 1882.5 | QPSK | | 1 | 0 | 23.7 |
| | | | | 1 | 11 | 23.6 |
| | | | | 1 | 24 | 23.6 |
| | | | | 12 | 0 | 23.1 |
| | | | | 12 | 5 | 23.1 |
| | | | | 12 | 11 | 23.0 |
| | | | | 25 | 0 | 22.9 |
| | 1882.5 | 16QAM | | 1 | 0 | 23.1 |
| | | | | 1 | 11 | 23.0 |
| | | | | 1 | 24 | 23.0 |
| | | | | 12 | 0 | 22.1 |
| | | | | 12 | 5 | 22.1 |
| | | | | 12 | 11 | 22.0 |
| | | | | 25 | 0 | 22.0 |
| | 1912.5 | QPSK | | 1 | 0 | 23.5 |
| | | | | 1 | 11 | 23.4 |
| | | | | 1 | 24 | 23.3 |
| | | | | 12 | 0 | 22.9 |
| | | | | 12 | 5 | 22.8 |
| | | | | 12 | 11 | 22.7 |
| | | | | 25 | 0 | 22.7 |
| | 1912.5 | 16QAM | | 1 | 0 | 22.9 |
| 1 | | | 11 | 22.8 | | |
| 1 | | | 24 | 22.7 | | |
| 12 | | | 0 | 21.9 | | |
| 12 | | | 5 | 21.8 | | |
| 12 | | | 11 | 21.8 | | |
| 25 | | | 0 | 21.6 | | |

| Band | Frequency (MHz) | Modulation | BW (MHz) | RB Size | RB Offset | Average Power (dBm) |
|-------|-----------------|------------|----------|---------|-----------|---------------------|
| LTE25 | 1855 | QPSK | 10 | 1 | 0 | 24.0 |
| | | | | 1 | 24 | 23.8 |
| | | | | 1 | 49 | 23.9 |
| | | | | 25 | 0 | 23.1 |
| | | | | 25 | 11 | 23.1 |
| | | | | 25 | 24 | 23.2 |
| | | | | 50 | 0 | 23.2 |
| | 1855 | 16QAM | | 1 | 0 | 23.5 |
| | | | | 1 | 24 | 23.4 |
| | | | | 1 | 49 | 23.3 |
| | | | | 25 | 0 | 22.3 |
| | | | | 25 | 11 | 22.1 |
| | | | | 25 | 24 | 22.3 |
| | | | | 50 | 0 | 22.2 |
| | 1882.5 | QPSK | | 1 | 0 | 23.7 |
| | | | | 1 | 24 | 23.6 |
| | | | | 1 | 49 | 23.5 |
| | | | | 25 | 0 | 23.0 |
| | | | | 25 | 11 | 23.0 |
| | | | | 25 | 24 | 22.9 |
| | | | | 50 | 0 | 22.9 |
| | 1882.5 | 16QAM | | 1 | 0 | 23.1 |
| | | | | 1 | 24 | 23.1 |
| | | | | 1 | 49 | 22.9 |
| | | | | 25 | 0 | 22.1 |
| | | | | 25 | 11 | 22.1 |
| | | | | 25 | 24 | 22.0 |
| | | | | 50 | 0 | 21.9 |
| | 1910 | QPSK | | 1 | 0 | 23.4 |
| | | | | 1 | 24 | 23.4 |
| | | | | 1 | 49 | 23.2 |
| | | | | 25 | 0 | 22.9 |
| | | | | 25 | 11 | 22.8 |
| | | | | 25 | 24 | 22.7 |
| | | | | 50 | 0 | 22.7 |
| | 1910 | 16QAM | | 1 | 0 | 22.7 |
| | | | | 1 | 24 | 22.6 |
| | | | | 1 | 49 | 22.5 |
| | | | | 25 | 0 | 21.9 |
| | | | | 25 | 11 | 21.8 |
| 25 | | | 24 | 21.7 | | |
| 50 | | | 0 | 21.7 | | |

7.5. LTE BAND 26

| Band | Frequency (MHz) | Modulation | BW (MHz) | RB Size | RB Offset | Average Power (dBm) |
|-------|-----------------|------------|----------|---------|-----------|---------------------|
| LTE26 | 814.7 | QPSK | 1.4 | 1 | 0 | 23.45 |
| | | | | 1 | 2 | 23.54 |
| | | | | 1 | 5 | 23.57 |
| | | | | 3 | 0 | 23.43 |
| | | | | 3 | 0 | 23.56 |
| | | | | 3 | 2 | 23.53 |
| | | | | 6 | 0 | 22.58 |
| | 814.7 | 16QAM | | 1 | 0 | 22.12 |
| | | | | 1 | 2 | 22.11 |
| | | | | 1 | 5 | 22.14 |
| | | | | 3 | 0 | 22.56 |
| | | | | 3 | 0 | 22.67 |
| | | | | 3 | 2 | 22.63 |
| | | | | 6 | 0 | 21.73 |
| | 831.5 | QPSK | | 1 | 0 | 23.97 |
| | | | | 1 | 2 | 23.93 |
| | | | | 1 | 5 | 23.93 |
| | | | | 3 | 0 | 23.87 |
| | | | | 3 | 0 | 23.93 |
| | | | | 3 | 2 | 23.89 |
| | | | | 6 | 0 | 22.91 |
| | 831.5 | 16QAM | | 1 | 0 | 22.90 |
| | | | | 1 | 2 | 23.04 |
| | | | | 1 | 5 | 23.06 |
| | | | | 3 | 0 | 22.93 |
| | | | | 3 | 0 | 22.97 |
| | | | | 3 | 2 | 22.93 |
| | | | | 6 | 0 | 21.78 |
| | 848.3 | QPSK | | 1 | 0 | 23.94 |
| | | | | 1 | 2 | 23.69 |
| | | | | 1 | 5 | 23.84 |
| | | | | 3 | 0 | 23.89 |
| | | | | 3 | 0 | 23.93 |
| | | | | 3 | 2 | 23.93 |
| | | | | 6 | 0 | 22.85 |
| | 848.3 | 16QAM | | 1 | 0 | 22.12 |
| 1 | | | 2 | 22.15 | | |
| 1 | | | 5 | 22.10 | | |
| 3 | | | 0 | 22.95 | | |
| 3 | | | 0 | 22.94 | | |
| 3 | | | 2 | 22.91 | | |
| 6 | | | 0 | 22.01 | | |

| Band | Frequency (MHz) | Modulation | BW (MHz) | RB Size | RB Offset | Average Power (dBm) |
|-------|-----------------|------------|----------|---------|-----------|---------------------|
| LTE26 | 815.5 | QPSK | 3 | 1 | 0 | 23.24 |
| | | | | 1 | 7 | 23.54 |
| | | | | 1 | 14 | 23.49 |
| | | | | 7 | 0 | 22.36 |
| | | | | 7 | 2 | 22.51 |
| | | | | 7 | 6 | 22.52 |
| | | | | 15 | 0 | 22.39 |
| | 815.5 | 16QAM | | 1 | 0 | 22.40 |
| | | | | 1 | 7 | 22.54 |
| | | | | 1 | 14 | 22.64 |
| | | | | 7 | 0 | 21.32 |
| | | | | 7 | 2 | 21.40 |
| | | | | 7 | 6 | 21.44 |
| | | | | 15 | 0 | 21.45 |
| | 831.5 | QPSK | | 1 | 0 | 23.83 |
| | | | | 1 | 7 | 23.43 |
| | | | | 1 | 14 | 23.79 |
| | | | | 7 | 0 | 22.91 |
| | | | | 7 | 2 | 22.89 |
| | | | | 7 | 6 | 23.0 |
| | | | | 15 | 0 | 22.91 |
| | 831.5 | 16QAM | | 1 | 0 | 22.17 |
| | | | | 1 | 7 | 22.16 |
| | | | | 1 | 14 | 22.23 |
| | | | | 7 | 0 | 21.88 |
| | | | | 7 | 2 | 21.92 |
| | | | | 7 | 6 | 21.94 |
| | | | | 15 | 0 | 21.95 |
| | 847.5 | QPSK | | 1 | 0 | 23.78 |
| | | | | 1 | 7 | 23.71 |
| | | | | 1 | 14 | 23.72 |
| | | | | 7 | 0 | 22.78 |
| | | | | 7 | 2 | 22.74 |
| | | | | 7 | 6 | 22.87 |
| | | | | 15 | 0 | 22.79 |
| | 847.5 | 16QAM | | 1 | 0 | 22.69 |
| | | | | 1 | 7 | 22.54 |
| | | | | 1 | 14 | 22.78 |
| | | | | 7 | 0 | 21.91 |
| | | | | 7 | 2 | 21.79 |
| | | | | 7 | 6 | 21.91 |
| | | | | 15 | 0 | 21.74 |

| Band | Frequency (MHz) | Modulation | BW (MHz) | RB Size | RB Offset | Average Power (dBm) |
|-------|-----------------|------------|----------|---------|-----------|---------------------|
| LTE26 | 816.5 | QPSK | 5 | 1 | 0 | 23.43 |
| | | | | 1 | 11 | 23.65 |
| | | | | 1 | 24 | 23.64 |
| | | | | 12 | 0 | 22.58 |
| | | | | 12 | 5 | 22.66 |
| | | | | 12 | 11 | 22.59 |
| | | | | 25 | 0 | 22.71 |
| | 816.5 | 16QAM | | 1 | 0 | 22.43 |
| | | | | 1 | 11 | 22.62 |
| | | | | 1 | 24 | 22.68 |
| | | | | 12 | 0 | 21.41 |
| | | | | 12 | 5 | 21.69 |
| | | | | 12 | 11 | 21.59 |
| | | | | 25 | 0 | 21.61 |
| | 831.5 | QPSK | | 1 | 0 | 23.61 |
| | | | | 1 | 11 | 23.89 |
| | | | | 1 | 24 | 23.93 |
| | | | | 12 | 0 | 22.82 |
| | | | | 12 | 5 | 22.94 |
| | | | | 12 | 11 | 22.85 |
| | | | | 25 | 0 | 22.63 |
| | 831.5 | 16QAM | | 1 | 0 | 21.78 |
| | | | | 1 | 11 | 22.11 |
| | | | | 1 | 24 | 22.19 |
| | | | | 12 | 0 | 21.94 |
| | | | | 12 | 5 | 21.97 |
| | | | | 12 | 11 | 21.91 |
| | | | | 25 | 0 | 21.99 |
| | 846.5 | QPSK | | 1 | 0 | 23.52 |
| | | | | 1 | 11 | 23.84 |
| | | | | 1 | 24 | 23.78 |
| | | | | 12 | 0 | 23.69 |
| | | | | 12 | 5 | 22.73 |
| | | | | 12 | 11 | 22.74 |
| | | | | 25 | 0 | 22.88 |
| | 846.5 | 16QAM | | 1 | 0 | 22.64 |
| 1 | | | 11 | 22.79 | | |
| 1 | | | 24 | 22.91 | | |
| 12 | | | 0 | 21.79 | | |
| 12 | | | 5 | 21.88 | | |
| 12 | | | 11 | 21.92 | | |
| 25 | | | 0 | 21.89 | | |

7.6. LTE BAND 41

| Band | Frequency (MHz) | Modulation | BW (MHz) | RB Size | RB Offset | Average Power (dBm) |
|-------|-----------------|------------|----------|---------|-----------|---------------------|
| LTE41 | 2506 | QPSK | 20 | 1 | 0 | 22.4 |
| | | | | 1 | 49 | 22.4 |
| | | | | 1 | 99 | 22.5 |
| | | | | 50 | 0 | 21.6 |
| | | | | 50 | 24 | 21.4 |
| | | | | 50 | 49 | 21.5 |
| | | | | 100 | 0 | 21.4 |
| | 2506 | 16QAM | | 1 | 0 | 21.7 |
| | | | | 1 | 49 | 21.8 |
| | | | | 1 | 99 | 21.9 |
| | | | | 50 | 0 | 20.3 |
| | | | | 50 | 24 | 21.3 |
| | | | | 50 | 49 | 20.3 |
| | | | | 100 | 0 | 20.4 |
| | 2593 | QPSK | | 1 | 0 | 22.4 |
| | | | | 1 | 49 | 22.4 |
| | | | | 1 | 99 | 22.3 |
| | | | | 50 | 0 | 21.4 |
| | | | | 50 | 24 | 21.4 |
| | | | | 50 | 49 | 21.5 |
| | | | | 100 | 0 | 21.4 |
| | 2593 | 16QAM | | 1 | 0 | 21.5 |
| | | | | 1 | 49 | 21.5 |
| | | | | 1 | 99 | 21.4 |
| | | | | 50 | 0 | 20.4 |
| | | | | 50 | 24 | 20.4 |
| | | | | 50 | 49 | 20.4 |
| | | | | 100 | 0 | 20.6 |
| | 2680 | QPSK | | 1 | 0 | 22.4 |
| | | | | 1 | 49 | 22.3 |
| | | | | 1 | 99 | 22.2 |
| | | | | 50 | 0 | 21.0 |
| | | | | 50 | 24 | 21.1 |
| | | | | 50 | 49 | 21.0 |
| | | | | 100 | 0 | 21.0 |
| | 2680 | 16QAM | | 1 | 0 | 21.3 |
| 1 | | | 49 | 21.1 | | |
| 1 | | | 99 | 21.2 | | |
| 50 | | | 0 | 20.0 | | |
| 50 | | | 24 | 20.0 | | |
| 50 | | | 49 | 20.0 | | |
| 100 | | | 0 | 20.1 | | |

| Band | Frequency (MHz) | Modulation | BW (MHz) | RB Size | RB Offset | Average Power (dBm) |
|-------|-----------------|------------|----------|---------|-----------|---------------------|
| LTE41 | 2503.5 | QPSK | 15 | 1 | 0 | 22.4 |
| | | | | 1 | 37 | 22.5 |
| | | | | 1 | 74 | 22.5 |
| | | | | 36 | 0 | 21.6 |
| | | | | 36 | 17 | 21.6 |
| | | | | 36 | 36 | 21.5 |
| | 75 | 0 | | 21.4 | | |
| | 2503.5 | 16QAM | | 1 | 0 | 21.8 |
| | | | | 1 | 37 | 21.8 |
| | | | | 1 | 74 | 21.9 |
| | | | | 36 | 0 | 20.3 |
| | | | | 36 | 17 | 20.5 |
| | | | | 36 | 36 | 20.3 |
| | 75 | 0 | | 20.4 | | |
| | 2593 | QPSK | | 1 | 0 | 22.4 |
| | | | | 1 | 37 | 22.3 |
| | | | | 1 | 74 | 22.3 |
| | | | | 36 | 0 | 21.4 |
| | | | | 36 | 17 | 21.4 |
| | | | | 36 | 36 | 21.3 |
| | 75 | 0 | | 21.4 | | |
| | 2593 | 16QAM | | 1 | 0 | 21.4 |
| | | | | 1 | 37 | 21.5 |
| | | | | 1 | 74 | 21.4 |
| | | | | 36 | 0 | 20.4 |
| | | | | 36 | 17 | 20.4 |
| | | | | 36 | 36 | 20.4 |
| | 75 | 0 | | 20.5 | | |
| | 2682.5 | QPSK | | 1 | 0 | 22.4 |
| | | | | 1 | 37 | 22.3 |
| | | | | 1 | 74 | 22.3 |
| | | | | 36 | 0 | 21.0 |
| | | | | 36 | 17 | 21.1 |
| | | | | 36 | 36 | 21.0 |
| | 75 | 0 | | 21.0 | | |
| | 2682.5 | 16QAM | | 1 | 0 | 21.3 |
| 1 | | | 37 | 21.1 | | |
| 1 | | | 74 | 21.2 | | |
| 36 | | | 0 | 20.0 | | |
| 36 | | | 17 | 20.0 | | |
| 36 | | | 36 | 20.1 | | |
| 75 | 0 | 20.1 | | | | |
| Band | Frequency (MHz) | Modulation | BW (MHz) | RB Size | RB Offset | Average Power (dBm) |

| | | | | | | |
|-------|------|-------|----|------|----|------|
| LTE41 | 2501 | QPSK | 10 | 1 | 0 | 22.4 |
| | | | | 1 | 24 | 22.4 |
| | | | | 1 | 49 | 22.4 |
| | | | | 25 | 0 | 21.6 |
| | | | | 25 | 11 | 21.5 |
| | | | | 25 | 24 | 21.5 |
| | | | | 50 | 0 | 21.4 |
| | 2501 | 16QAM | | 1 | 0 | 21.8 |
| | | | | 1 | 24 | 21.8 |
| | | | | 1 | 49 | 21.8 |
| | | | | 25 | 0 | 20.3 |
| | | | | 25 | 11 | 20.5 |
| | | | | 25 | 24 | 20.3 |
| | | | | 50 | 0 | 20.4 |
| | 2593 | QPSK | | 1 | 0 | 22.4 |
| | | | | 1 | 24 | 22.4 |
| | | | | 1 | 49 | 22.3 |
| | | | | 25 | 0 | 21.4 |
| | | | | 25 | 11 | 21.2 |
| | | | | 25 | 24 | 21.3 |
| | | | | 50 | 0 | 21.3 |
| | 2593 | 16QAM | | 1 | 0 | 21.4 |
| | | | | 1 | 24 | 21.2 |
| | | | | 1 | 49 | 21.2 |
| | | | | 25 | 0 | 20.2 |
| | | | | 25 | 11 | 20.2 |
| | | | | 25 | 24 | 20.4 |
| | | | | 50 | 0 | 20.4 |
| | 2685 | QPSK | | 1 | 0 | 22.2 |
| | | | | 1 | 24 | 22.3 |
| | | | | 1 | 49 | 22.3 |
| | | | | 25 | 0 | 21.0 |
| | | | | 25 | 11 | 21.1 |
| | | | | 25 | 24 | 21.1 |
| | | | | 50 | 0 | 21.0 |
| | 2685 | 16QAM | | 1 | 0 | 21.3 |
| 1 | | | 24 | 21.1 | | |
| 1 | | | 49 | 21.2 | | |
| 25 | | | 0 | 20.0 | | |
| 25 | | | 11 | 20.1 | | |
| 25 | | | 24 | 20.1 | | |
| 50 | | | 0 | 20.3 | | |

8. CONDUCTED TEST RESULTS

8.1. OCCUPIED BANDWIDTH

RULE PART(S)

FCC: §2.1049

Part §90.209(b)(7) Economic Area (EA)-based licensees in frequencies 817–824/862–869 MHz (813.5–824/858.5–869 MHz in the counties listed in § 90.614(c)) may exceed the standard channel spacing and authorized bandwidth listed in paragraph (b)(5) of this section [i.e. 25 kHz, 20 kHz, resp.] in any National Public Safety Planning Advisory Committee Region when all 800 MHz public safety licensees in the Region have completed band reconfiguration consistent with this part.

LIMITS

For reporting purposes only

TEST PROCEDURE

Reference to KDB 971168 D01 v02r01

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer. The occupied bandwidth was measured with the spectrum analyzer at the low, middle and high channel in each band. The -26dB bandwidth was also measured and recorded.

MODES TESTED

- CDMA2000 1xRTT BC10, BC0, BC1
- CDMA2000 1xEVDO BC10, BC0, BC1
- LTE Band 25
- LTE Band 26
- LTE Band 41

RESULTS

| Band | Mode | Channel | f (MHz) | 99% BW (MHz) | -26dB BW (MHz) |
|------|-------|---------|---------|--------------|-----------------|
| BC10 | 1xRTT | 476 | 817.90 | 1.2777 | 1.396 |
| | | 580 | 820.50 | 1.2887 | 1.365 |
| | | 684 | 823.10 | 1.2786 | 1.371 |
| | EVDO | 476 | 817.90 | 1.2712 | 1.440 |
| | | 580 | 820.50 | 1.2768 | 1.432 |
| | | 684 | 823.1 | 1.2749 | 1.434 |

| Band | Mode | Channel | f (MHz) | 99% BW (MHz) | -26dB BW (MHz) |
|---------------|---------------------------|---------|---------|--------------|-----------------|
| BC0, Cellular | 1xRTT | 1013 | 824.70 | 1.2733 | 1.411 |
| | | 384 | 836.52 | 1.2799 | 1.366 |
| | | 777 | 848.31 | 1.2797 | 1.390 |
| | CDMA2000 1xEV-DO (Rev. A) | 1013 | 824.70 | 1.2728 | 1.431 |
| | | 384 | 836.52 | 1.2752 | 1.438 |
| | | 777 | 848.31 | 1.2711 | 1.436 |

| Band | Mode | Channel | f (MHz) | 99% BW (MHz) | -26dB BW (MHz) |
|----------|---------------------------|---------|---------|--------------|-----------------|
| BC1, PCS | 1xRTT | 25 | 1851.25 | 1.2887 | 1.415 |
| | | 600 | 1880.0 | 1.2872 | 1.398 |
| | | 1175 | 1908.75 | 1.2822 | 1.390 |
| | CDMA2000 1xEV-DO (Rev. A) | 25 | 1851.25 | 1.2735 | 1.447 |
| | | 600 | 1880.0 | 1.2827 | 1.442 |
| | | 1175 | 1908.75 | 1.2822 | 1.444 |

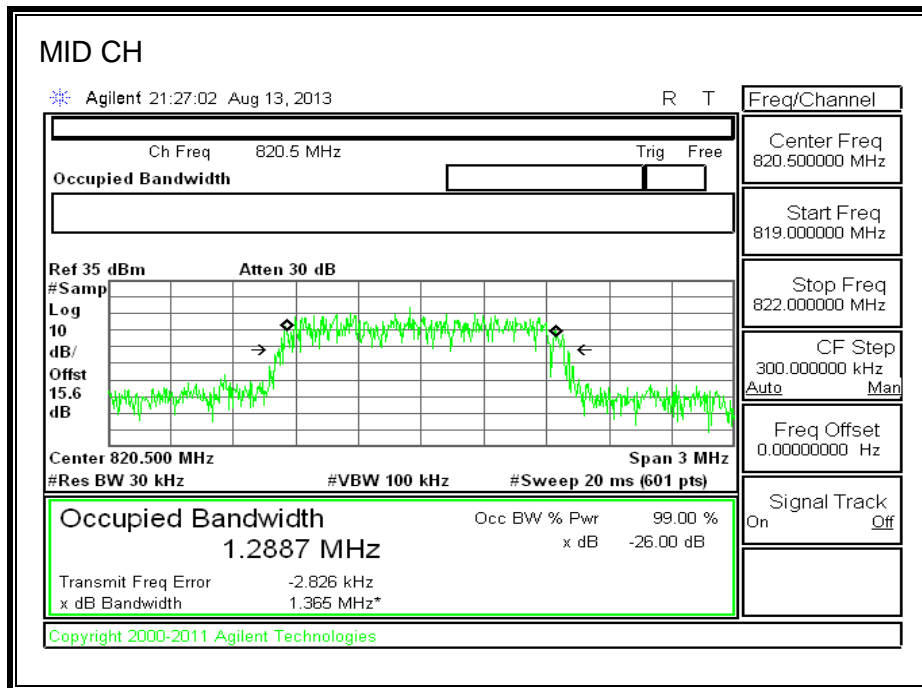
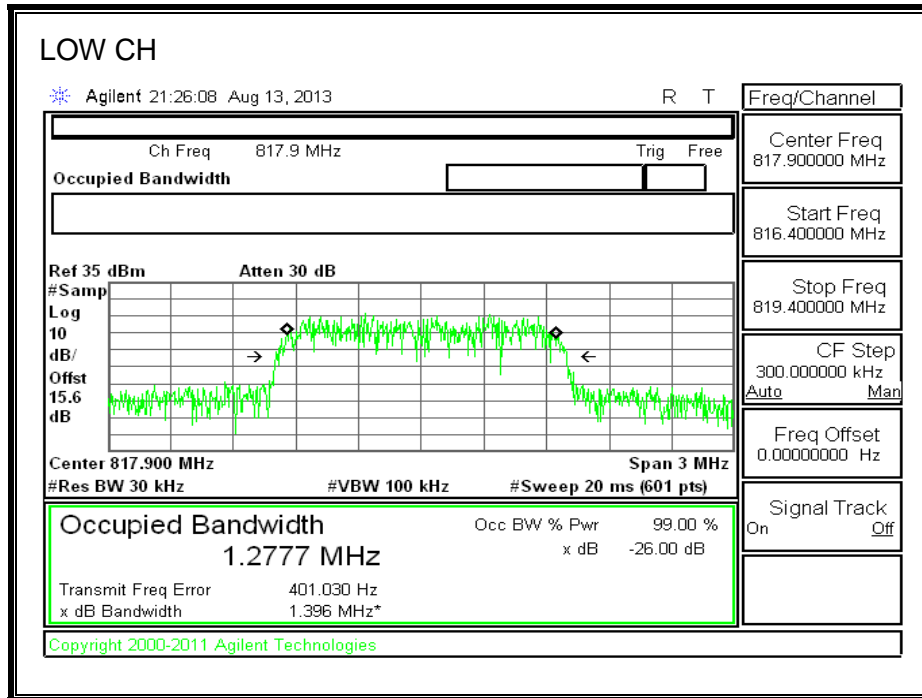
| Band | Mode | RB/RB SIZE | f (MHz) | 99% BW (MHz) | -26dB BW (MHz) |
|----------------------|-----------------------|------------|---------|--------------|----------------|
| LTE BAND 25 | 3.0 MHz BAND QPSK | 6/2 | 1851.5 | 1.0876 | 1.291 |
| | | 15/0 | | 2.677 | 2.798 |
| | 3.0 MHz BAND 16QAM | 6/2 | | 1.0745 | 1.409 |
| | | 15/0 | | 2.685 | 2.866 |
| | 3.0 MHz BAND QPSK | 6/2 | 1882.5 | 1.112 | 1.234 |
| | | 15/0 | | 2.6889 | 2.898 |
| | 3.0 MHz BAND 16QAM | 6/2 | | 1.0715 | 1.502 |
| | | 15/0 | | 2.6836 | 2.886 |
| | 3.0 MHz BAND QPSK | 6/2 | 1913.5 | 1.0877 | 1.234 |
| | | 15/0 | | 2.6426 | 2.879 |
| | 3.0 MHz BAND 16QAM | 6/2 | | 1.0915 | 1.43 |
| | | 15/0 | | 2.6985 | 2.883 |
| | 5 MHz BAND QPSK | 12/5 | 1852.5 | 2.1464 | 2.507 |
| | | 25/0 | | 4.4607 | 4.688 |
| | 5 MHz BAND 16QAM | 12/5 | | 2.1539 | 2.616 |
| | | 25/0 | | 4.4651 | 4.717 |
| | 5 MHz BAND QPSK | 12/5 | 1882.5 | 2.1698 | 2.401 |
| | | 25/0 | | 4.4692 | 4.775 |
| | 5 MHz BAND 16QAM | 12/5 | | 2.1648 | 2.752 |
| | | 25/0 | | 4.4891 | 4.779 |
| | 5 MHz BAND QPSK | 12/5 | 1912.5 | 2.137 | 2.896 |
| | | 25/0 | | 4.4165 | 4.658 |
| | 5 MHz BAND 16QAM | 12/5 | | 2.1529 | 2.282 |
| | | 25/0 | | 4.4656 | 4.738 |
| | 10 MHz BAND QPSK | 25/11 | 1855 | 4.4771 | 5.274 |
| | | 50/0 | | 8.9695 | 9.503 |
| | 10 MHz BAND 16QAM | 25/11 | | 4.4287 | 5.484 |
| | | 50/0 | | 8.9287 | 9.382 |
| 10 MHz BAND QPSK | 25/11 | 1882.5 | 4.4500 | 6.252 | |
| | 50/0 | | 8.9305 | 9.423 | |
| 10 MHz BAND 16QAM | 25/11 | | 4.4914 | 4.796 | |
| | 50/0 | | 8.8301 | 9.275 | |
| 10 MHz BAND QPSK | 25/11 | 1910 | 4.4974 | 5.268 | |
| | 50/0 | | 8.9535 | 9.322 | |
| 10 MHz BAND 16QAM | 25/11 | | 4.4583 | 6.015 | |
| | 50/0 | | 8.9514 | 9.567 | |

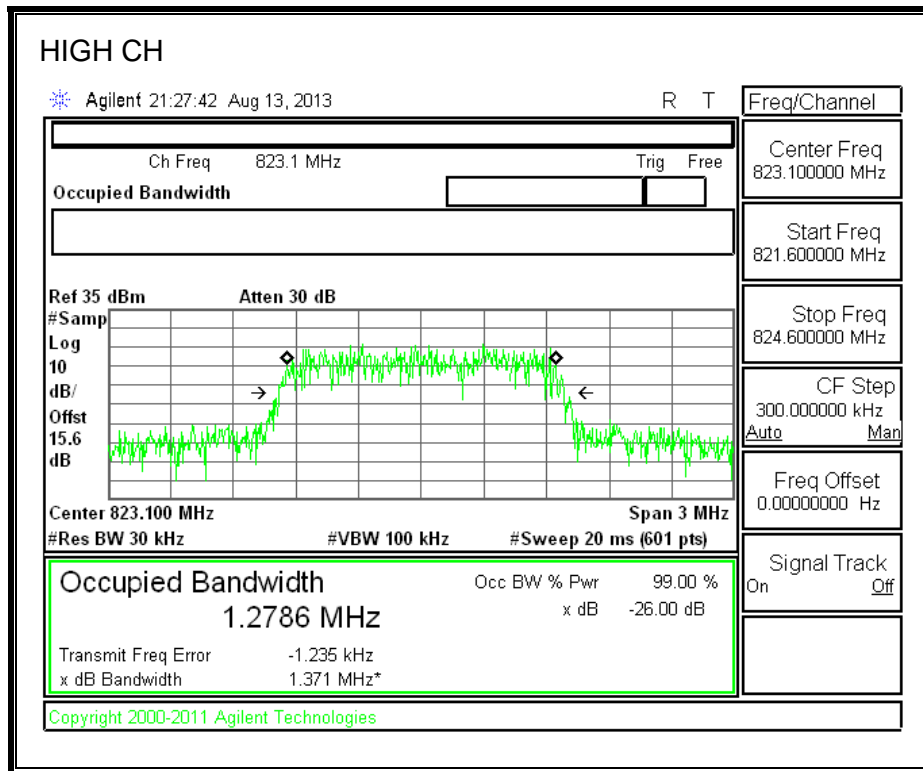
| Band | Mode | RB/RB SIZE | f (MHz) | 99% BW (MHz) | -26dB BW (MHz) |
|---------------------|-----------------------|-------------------|-------------------|--------------|----------------|
| LTE BAND 26 | 1.4 MHz BAND QPSK | 3/0 | 814.7 Part 90S | 0.4820 | 0.711 |
| | | 6/0 | | 0.9754 | 1.299 |
| | 1.4 MHz BAND 16QAM | 3/0 | | 0.4971 | 0.762 |
| | | 6/0 | | 0.9813 | 1.281 |
| | 1.4 MHz BAND QPSK | 3/0 | 831.5 Part 22H | 0.5000 | 0.726 |
| | | 6/0 | | 0.9807 | 1.259 |
| | 1.4 MHz BAND 16QAM | 3/0 | | 0.4948 | 0.719 |
| | | 6/0 | | 0.9795 | 1.254 |
| | 1.4 MHz BAND QPSK | 3/0 | 848.3 Part 22H | 0.4791 | 0.721 |
| | | 6/0 | | 0.9749 | 1.279 |
| | 1.4 MHz BAND 16QAM | 3/0 | | 0.4943 | 0.789 |
| | | 6/0 | | 0.9777 | 1.28 |
| | 3.0 MHz BAND QPSK | 6/2 | 815.5 Part 90S | 0.9753 | 1.436 |
| | | 15/0 | | 2.4143 | 3.012 |
| | 3.0 MHz BAND 16QAM | 6/2 | | 0.9822 | 1.622 |
| | | 15/0 | | 2.403 | 3.006 |
| | 3.0 MHz BAND QPSK | 6/2 | 831.5 Part 22H | 0.9854 | 1.545 |
| | | 15/0 | | 2.4517 | 3.166 |
| | 3.0 MHz BAND 16QAM | 6/2 | | 0.9838 | 1.569 |
| | | 15/0 | | 2.4192 | 3.002 |
| | 3.0 MHz BAND QPSK | 6/2 | 847.5 Part 22H | 0.9915 | 1.536 |
| | | 15/0 | | 2.4104 | 2.996 |
| | 3.0 MHz BAND 16QAM | 6/2 | | 0.9808 | 1.616 |
| | | 15/0 | | 2.4094 | 3.046 |
| | 5 MHz BAND QPSK | 12/5 | 816.5 Part 90S | 1.9432 | 2.854 |
| | | 25/0 | | 3.9808 | 4.936 |
| | 5 MHz BAND 16QAM | 12/5 | | 1.9555 | 3.082 |
| | | 25/0 | | 4.0161 | 5.007 |
| 5 MHz BAND QPSK | 12/5 | 831.5 Part 22H | 1.9478 | 2.95 | |
| | 25/0 | | 4.0505 | 4.97 | |
| 5 MHz BAND 16QAM | 12/5 | | 1.9668 | 3.152 | |
| | 25/0 | | 4.0616 | 5.061 | |
| 5 MHz BAND QPSK | 12/5 | 846.5 Part 22H | 1.9666 | 3.067 | |
| | 25/0 | | 4.0642 | 4.976 | |
| 5 MHz BAND 16QAM | 12/5 | | 1.9761 | 3.164 | |
| | 25/0 | | 4.0815 | 5.088 | |

| Band | Mode | RB/RB SIZE | f (MHz) | 99% BW (MHz) | -26dB BW (MHz) |
|----------------------|----------------------|------------|---------|--------------|----------------|
| LTE BAND 41 | 10 MHz BAND QPSK | 25/11 | 2501 | 4.587 | 6.219 |
| | | 50/0 | | 8.9633 | 10.014 |
| | 10 MHz BAND 16QAM | 25/11 | | 4.6168 | 6.589 |
| | | 50/0 | | 8.9399 | 9.961 |
| | 10 MHz BAND QPSK | 25/11 | 2593 | 4.5561 | 6.059 |
| | | 50/0 | | 8.9327 | 9.710 |
| | 10 MHz BAND 16QAM | 25/11 | | 4.5962 | 7.018 |
| | | 50/0 | | 8.9368 | 9.642 |
| | 10 MHz BAND QPSK | 25/11 | 2685 | 4.6162 | 6.560 |
| | | 50/0 | | 8.9412 | 9.647 |
| | 10 MHz BAND 16QAM | 25/11 | | 4.6115 | 6.334 |
| | | 50/0 | | 8.9385 | 9.669 |
| | 15 MHz BAND QPSK | 36/17 | 2503.5 | 6.5555 | 8.976 |
| | | 75/0 | | 13.453 | 14.600 |
| | 15 MHz BAND 16QAM | 36/17 | | 6.5891 | 8.791 |
| | | 75/0 | | 13.3945 | 14.593 |
| | 15 MHz BAND QPSK | 36/17 | 2593 | 6.5642 | 8.789 |
| | | 75/0 | | 13.3741 | 14.328 |
| | 15 MHz BAND 16QAM | 36/17 | | 6.5475 | 8.147 |
| | | 75/0 | | 13.3618 | 14.468 |
| | 15 MHz BAND QPSK | 36/17 | 2682.5 | 6.5511 | 8.516 |
| | | 75/0 | | 13.3248 | 14.467 |
| | 15 MHz BAND 16QAM | 36/17 | | 6.5876 | 8.244 |
| | | 75/0 | | 13.3543 | 14.418 |
| | 20 MHz BAND QPSK | 50/24 | 2506 | 9.0409 | 11.256 |
| | | 100/0 | | 17.8215 | 19.386 |
| | 20 MHz BAND 16QAM | 50/24 | | 9.0685 | 11.92 |
| | | 100/0 | | 17.7815 | 19.149 |
| 20 MHz BAND QPSK | 50/24 | 2593 | 9.0717 | 11.378 | |
| | 100/0 | | 17.6926 | 18.921 | |
| 20 MHz BAND 16QAM | 50/24 | | 9.0919 | 11.087 | |
| | 100/0 | | 17.8299 | 19.129 | |
| 20 MHz BAND QPSK | 50/24 | 2680 | 9.0524 | 11.009 | |
| | 100/0 | | 17.8396 | 18.980 | |
| 20 MHz BAND 16QAM | 50/24 | | 9.0745 | 10.849 | |
| | 100/0 | | 17.822 | 19.273 | |

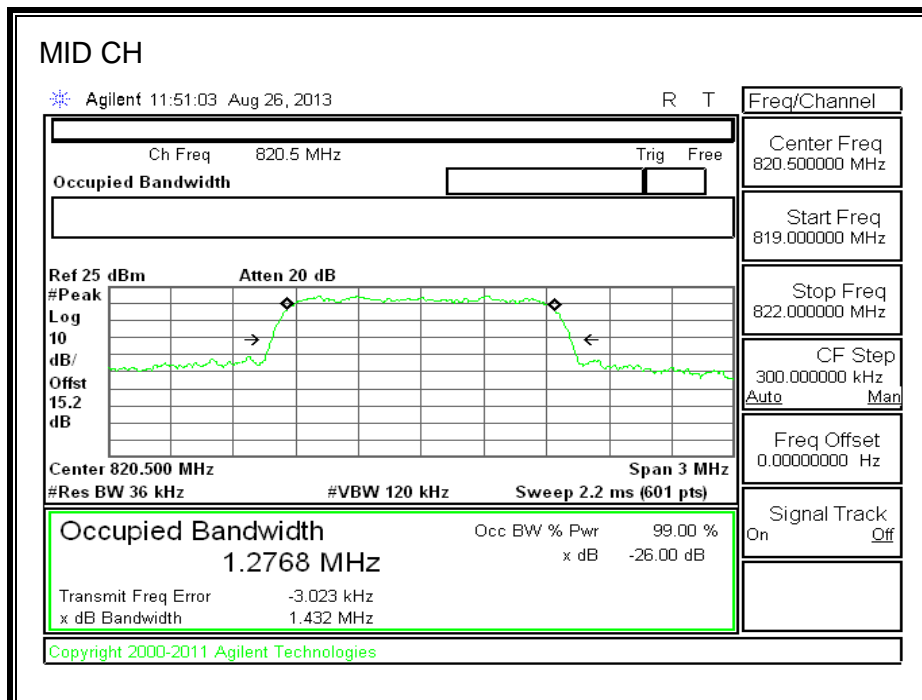
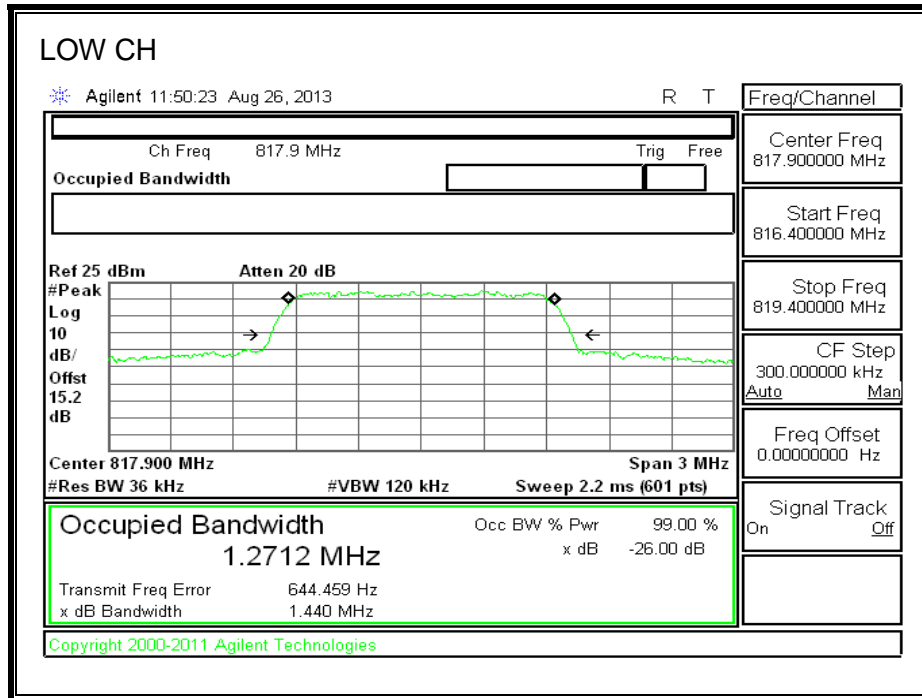
8.1.1. CDMA2000, BC10

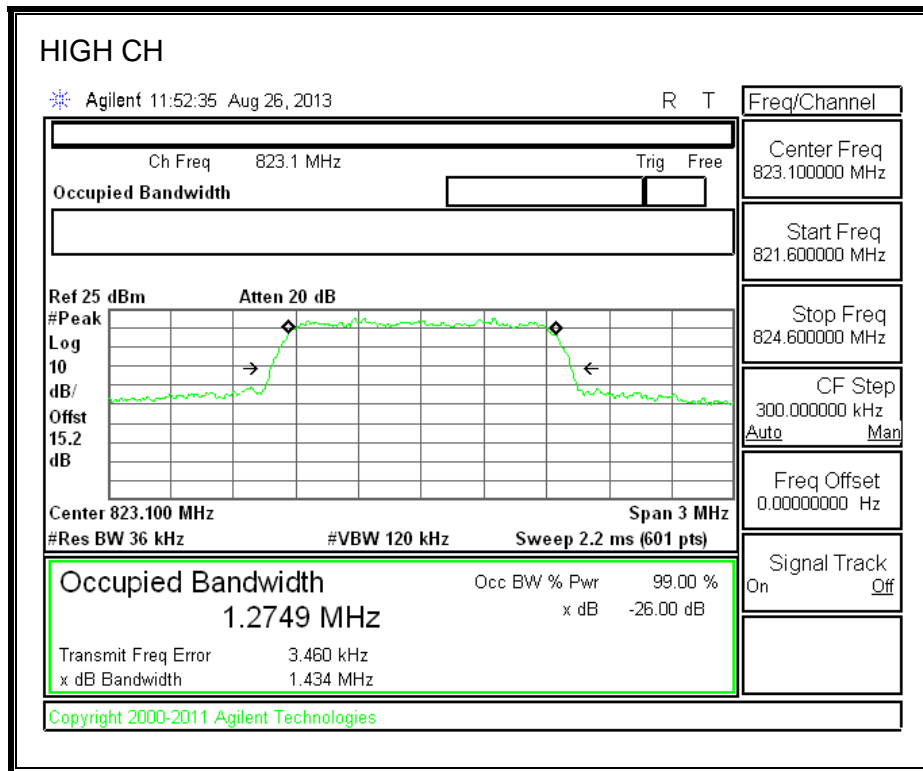
1xRTT





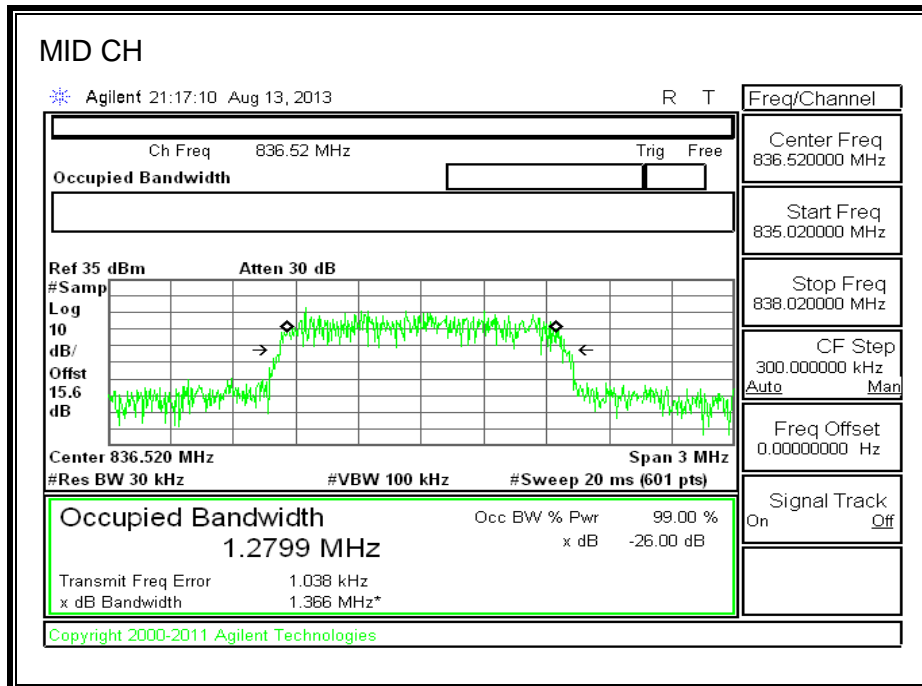
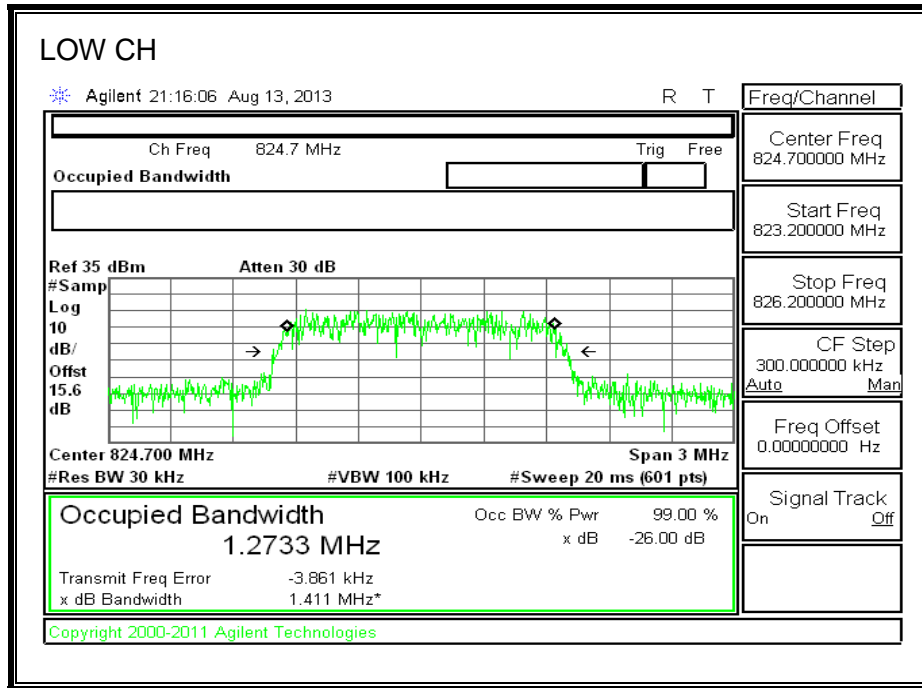
1xEVDO BC10

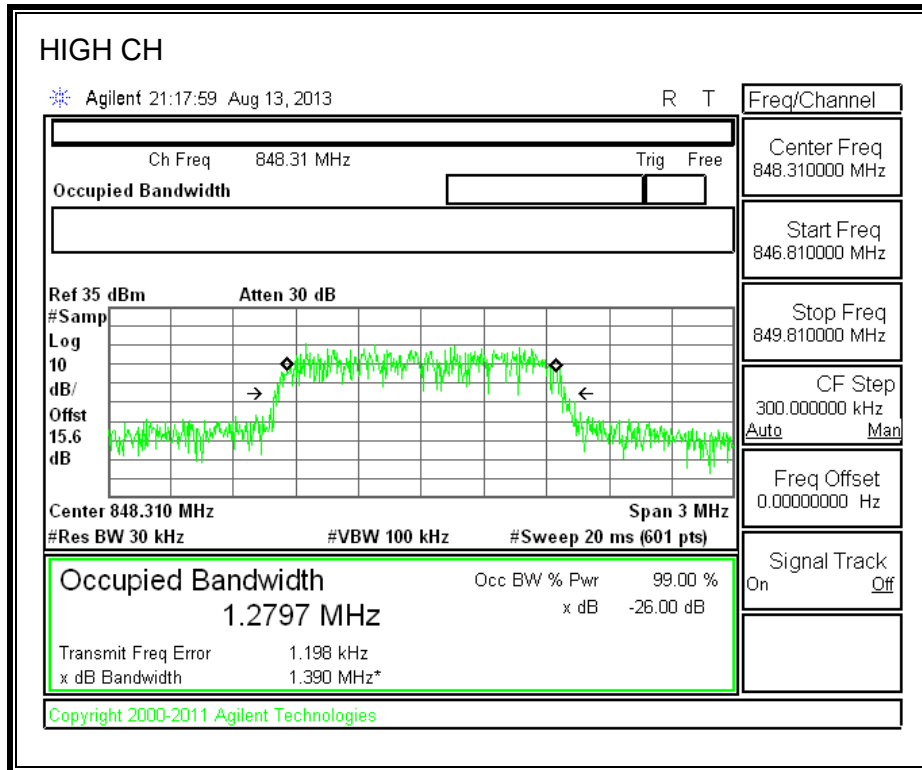




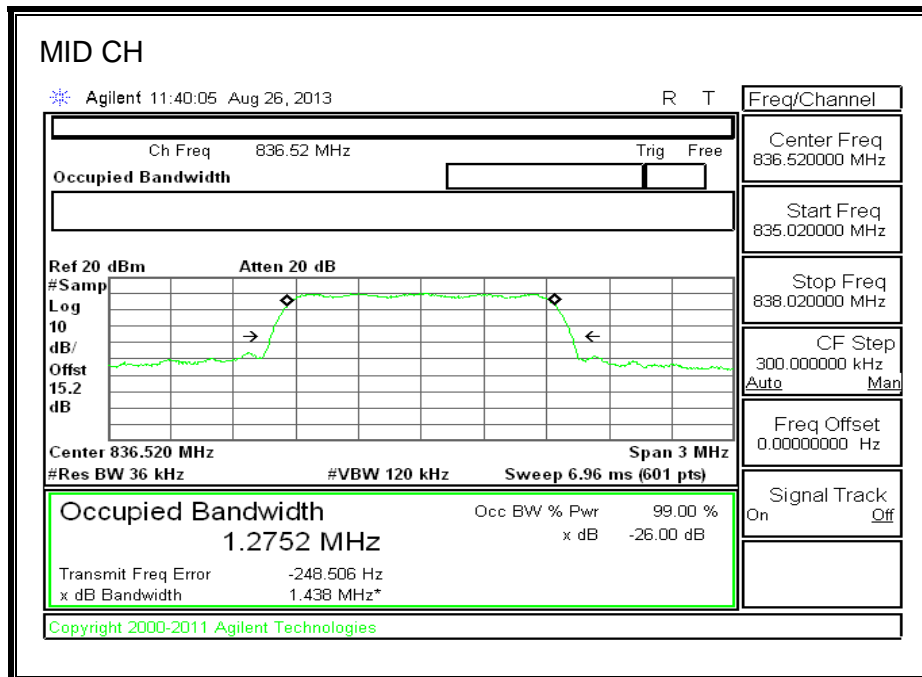
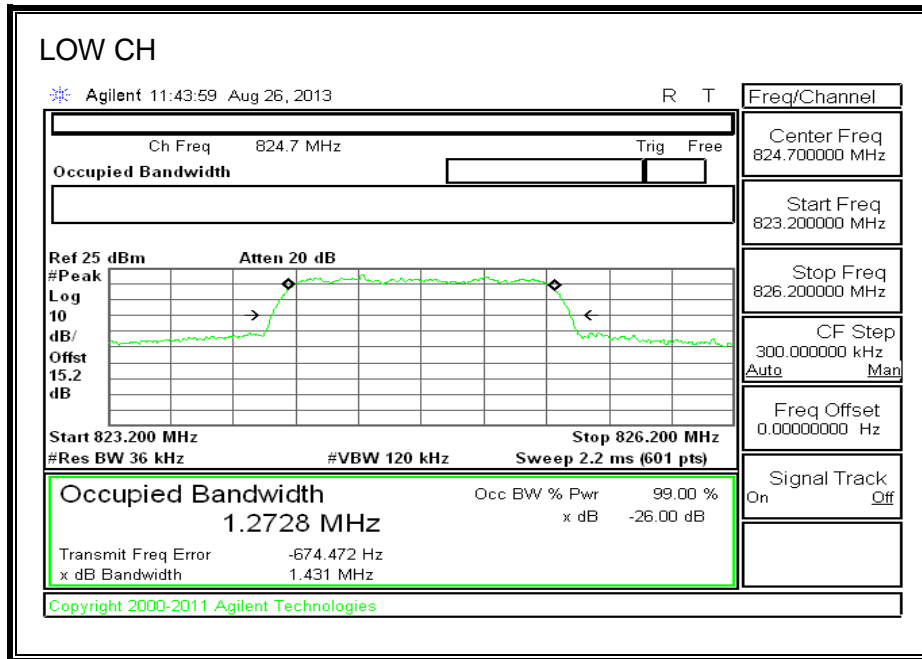
8.1.2. CDMA2000, BC0

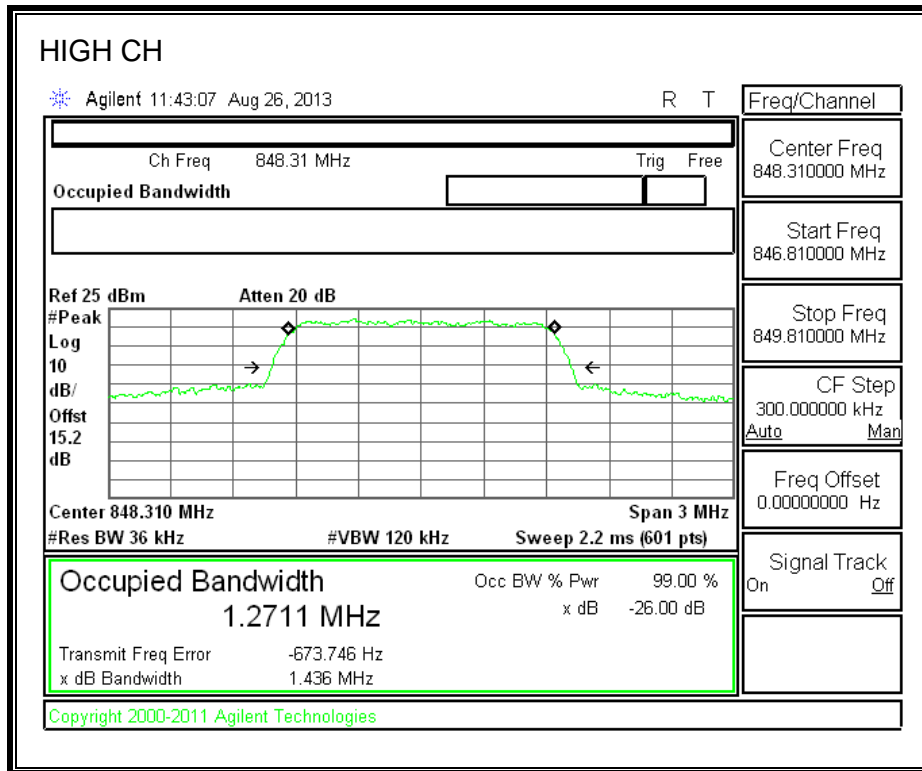
1xRTT





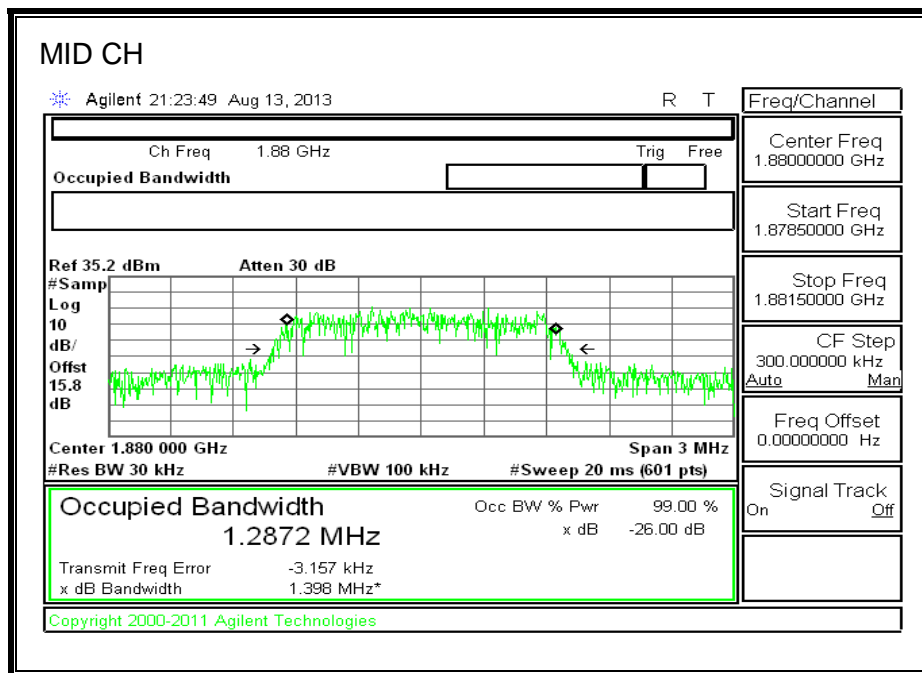
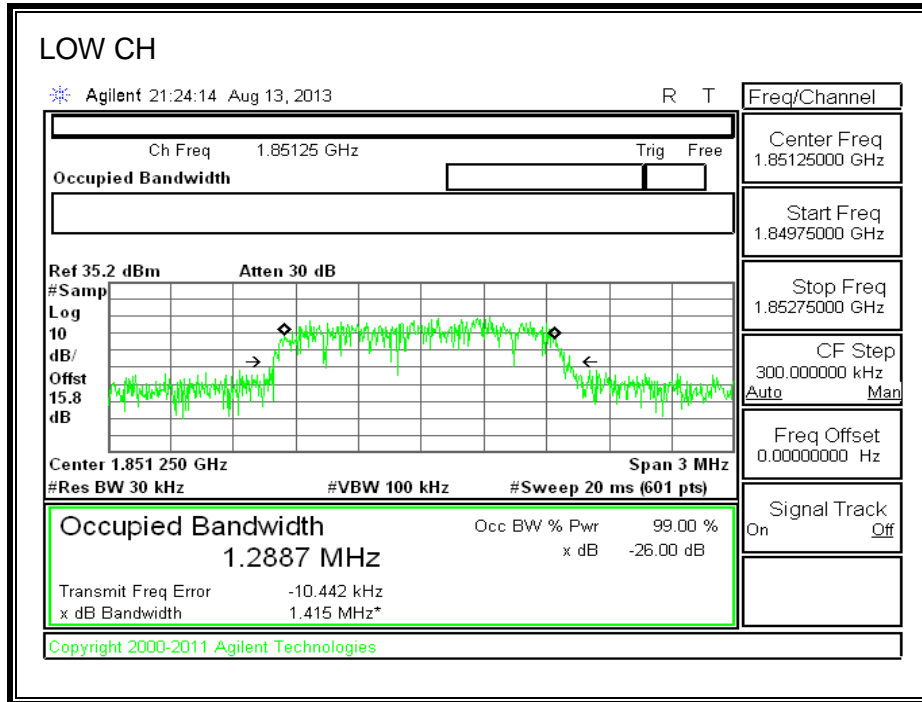
1xEV-DO BC0

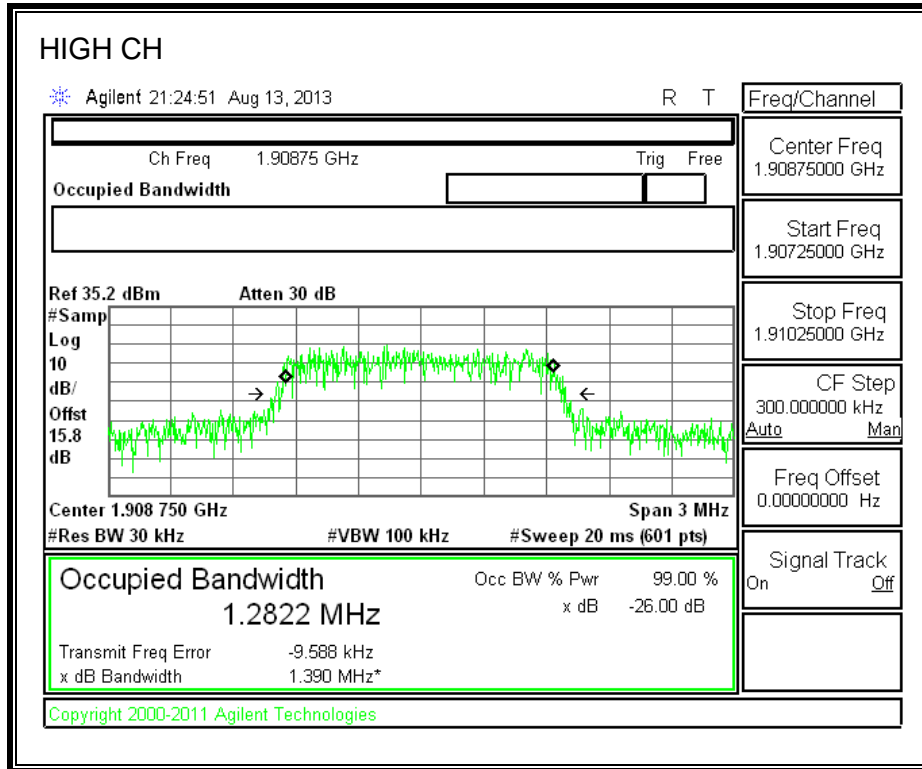


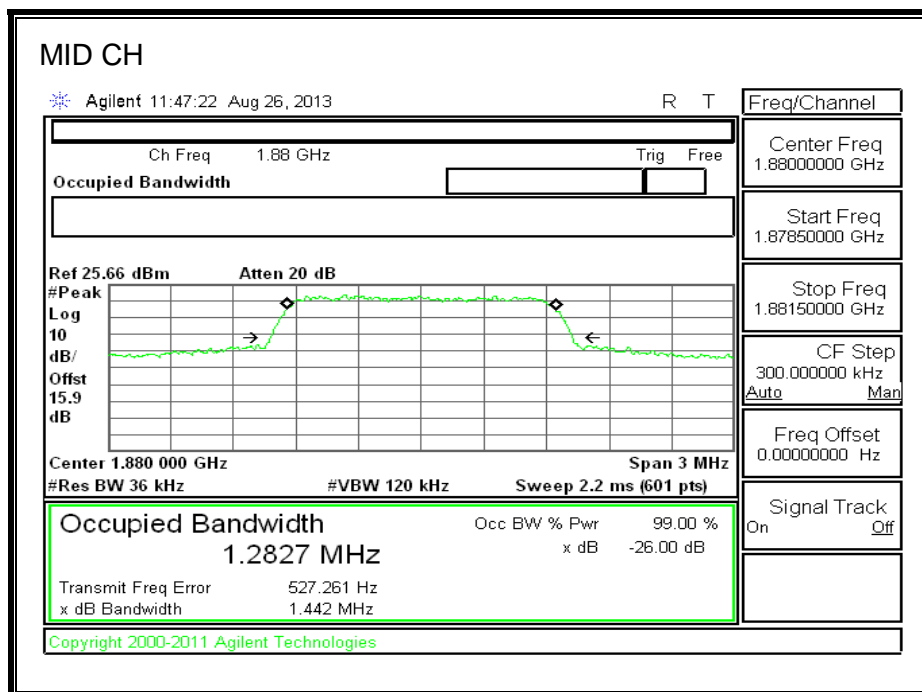
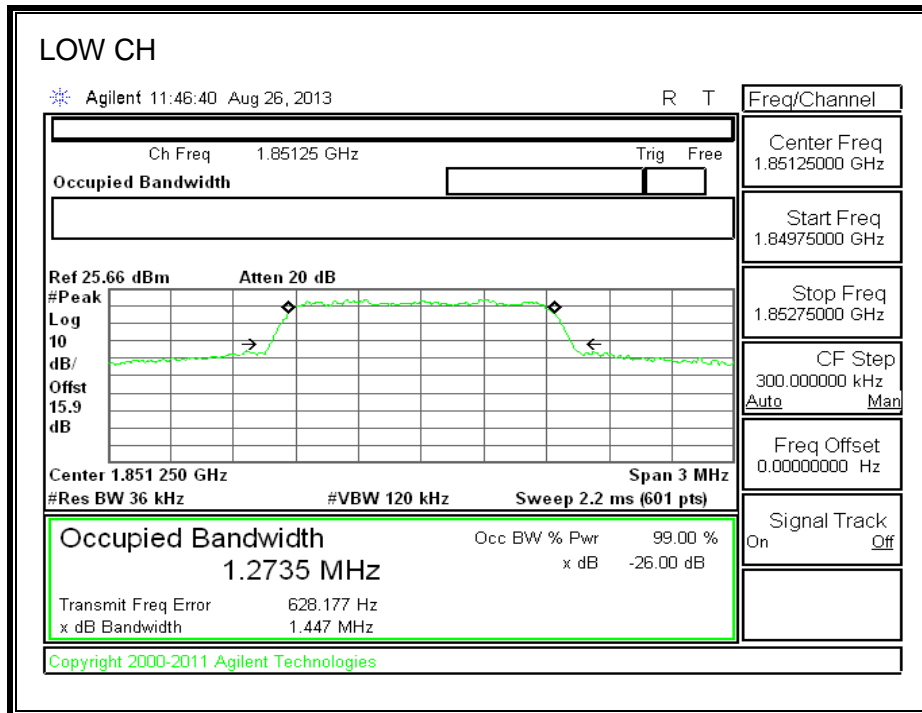


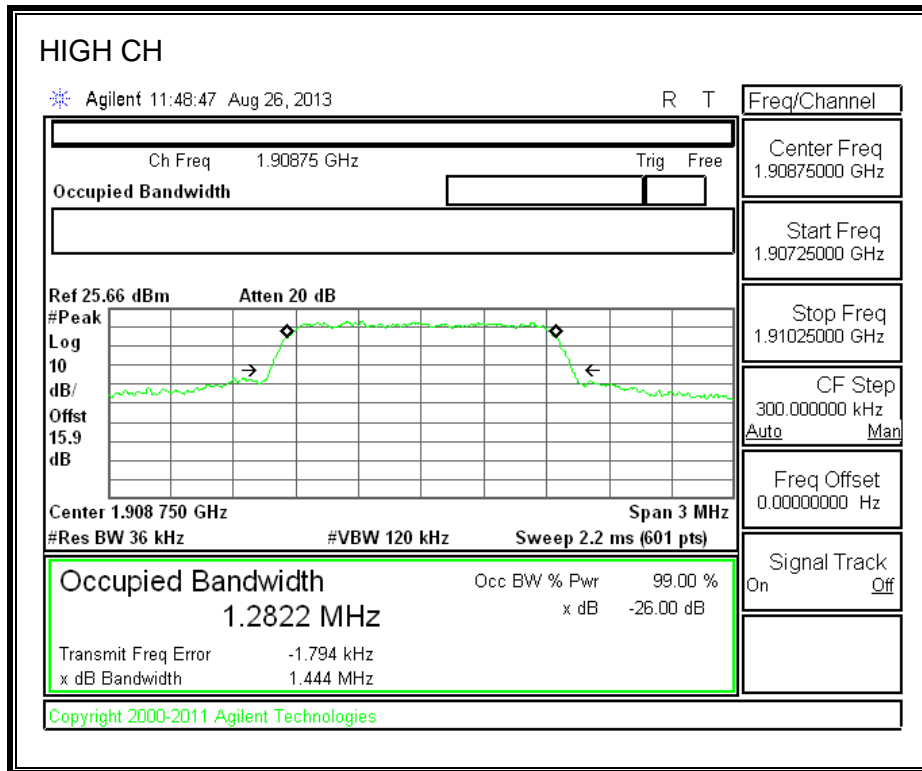
8.1.3. CDMA2000, BC1

1xRTT Mode





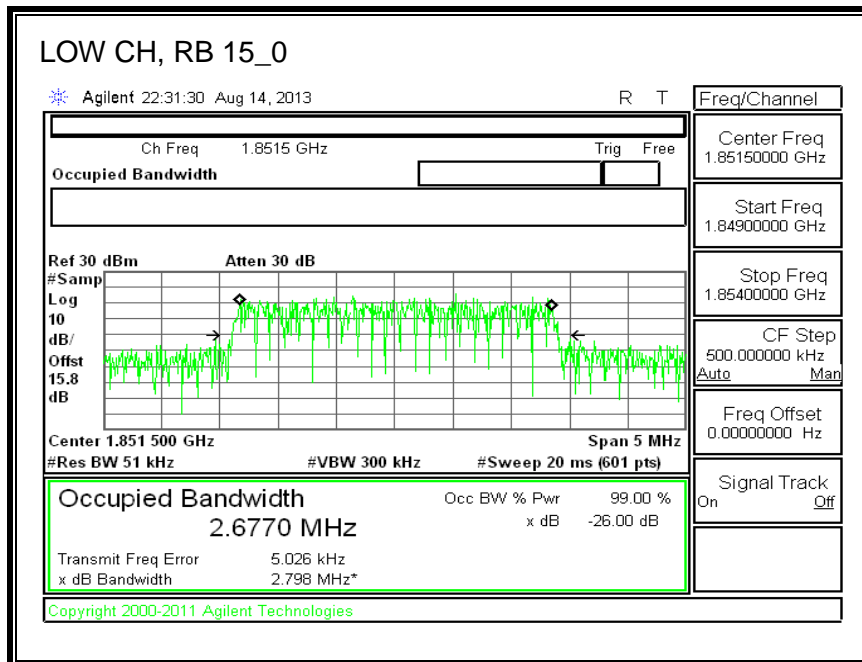
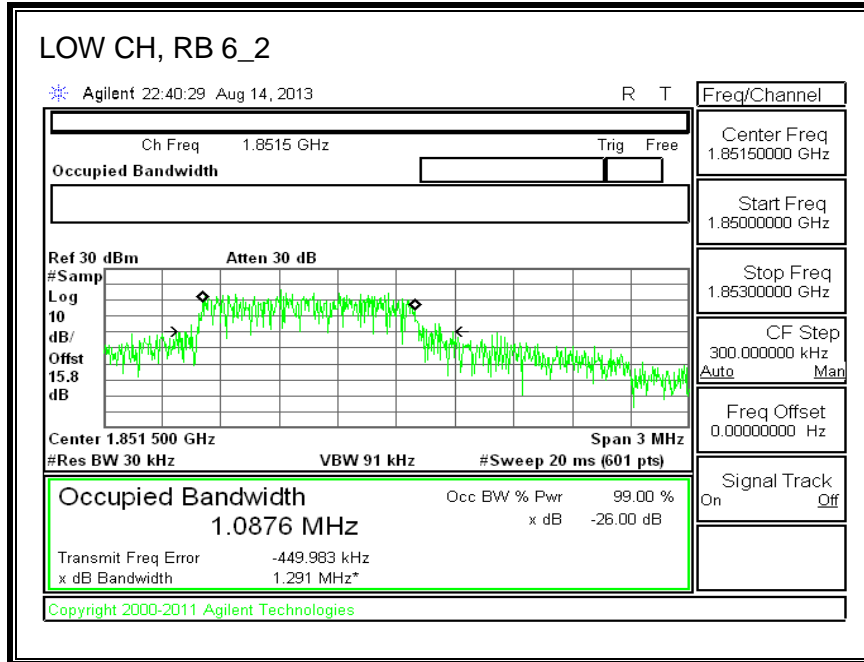


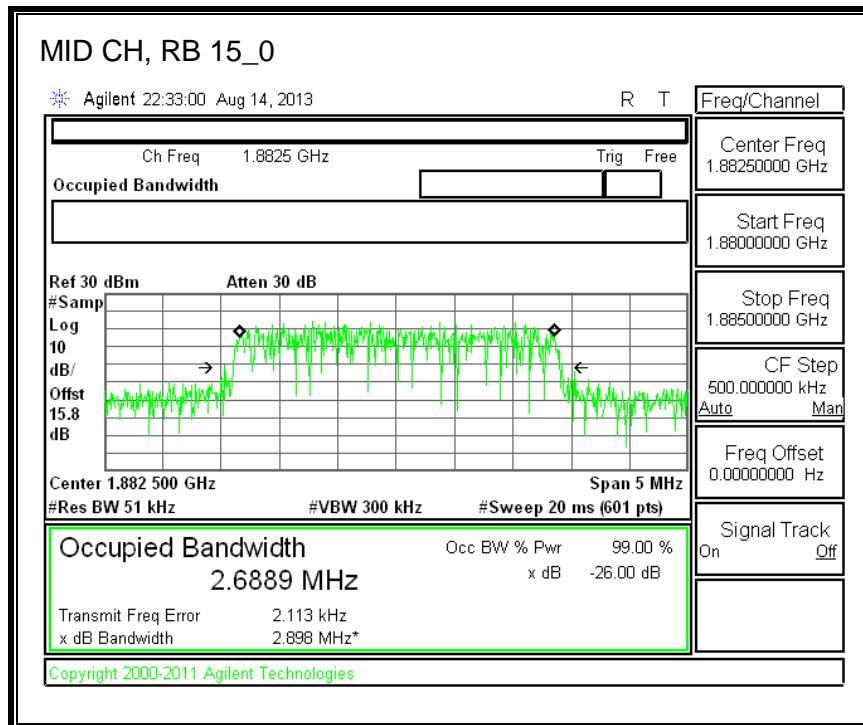
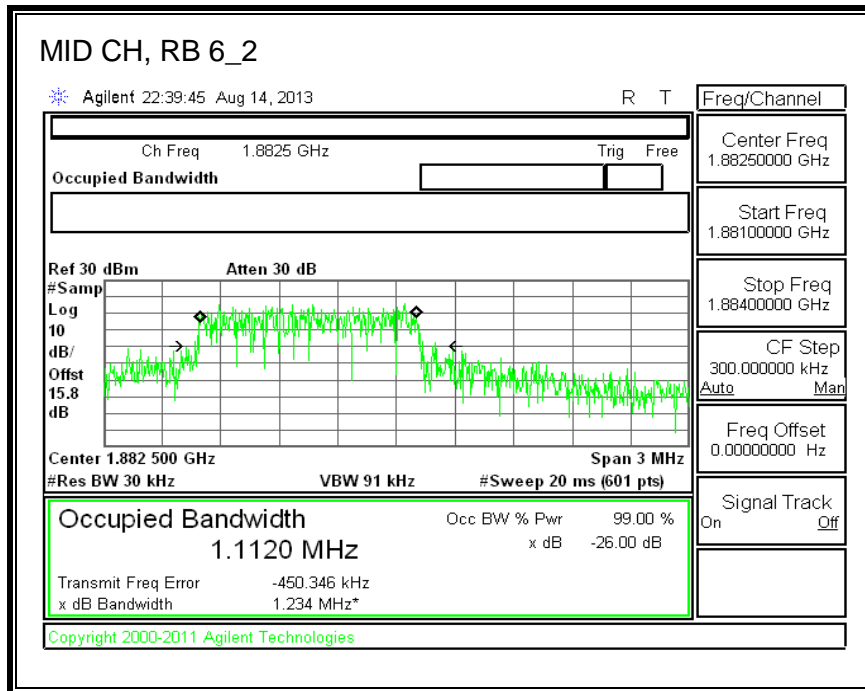


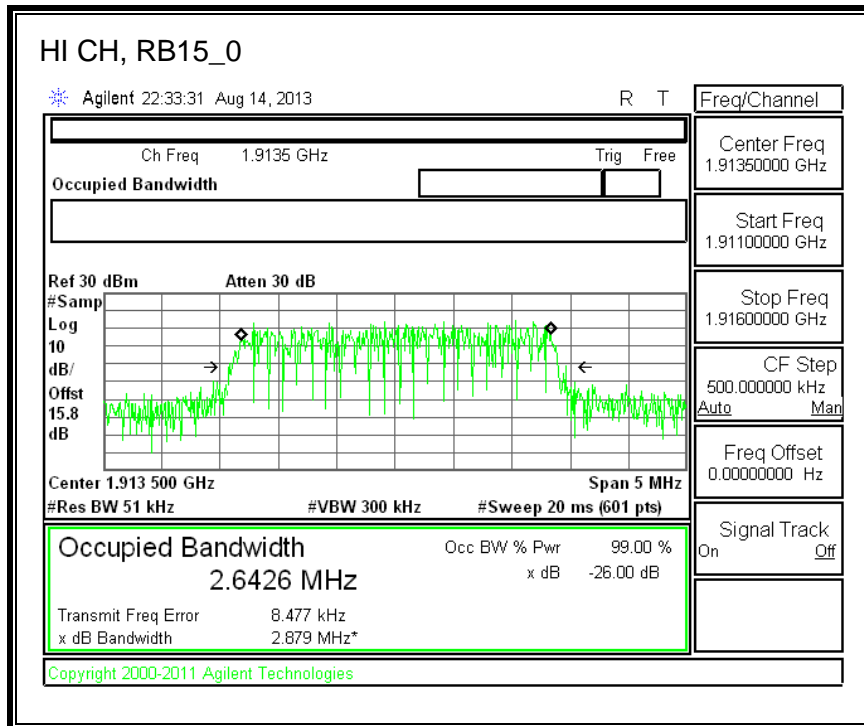
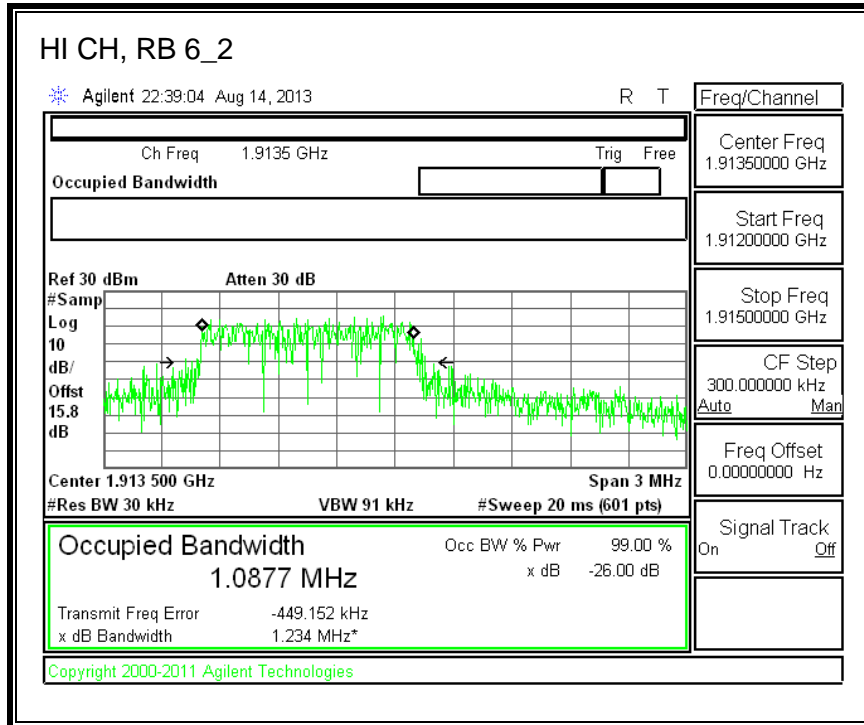
8.1.3. LTE BAND 25

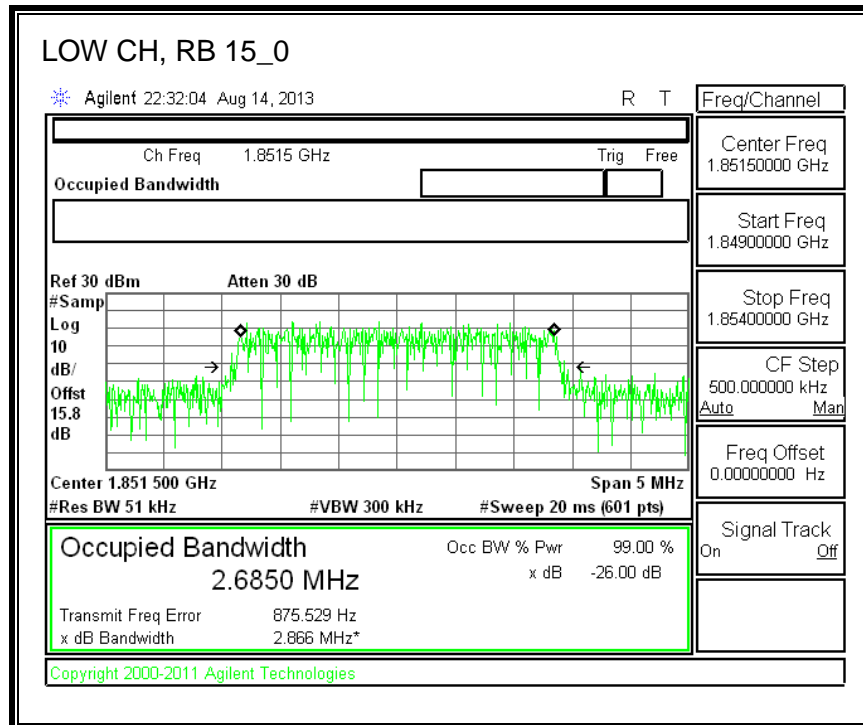
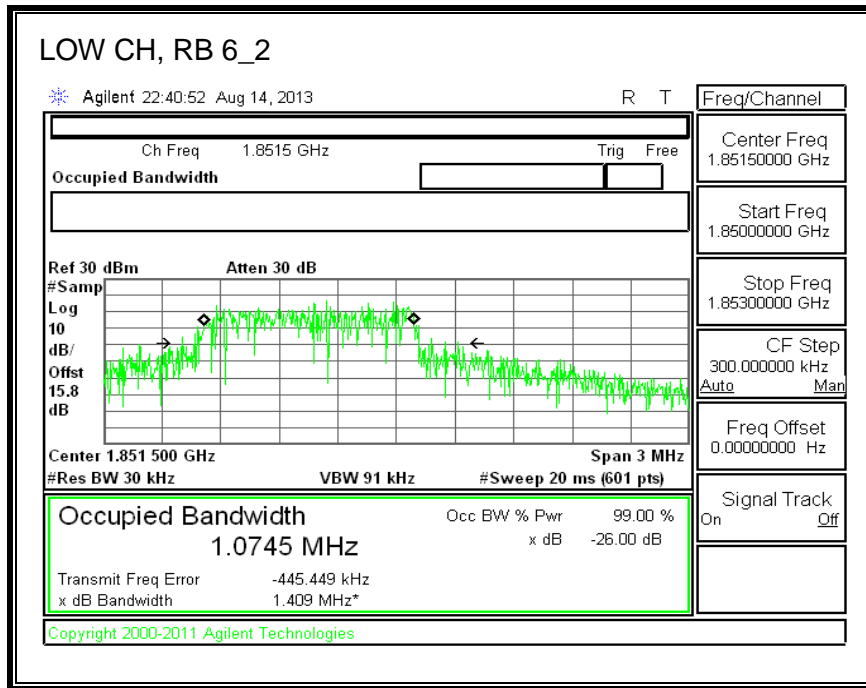
Band 25 (3 MHz BAND WIDTH)

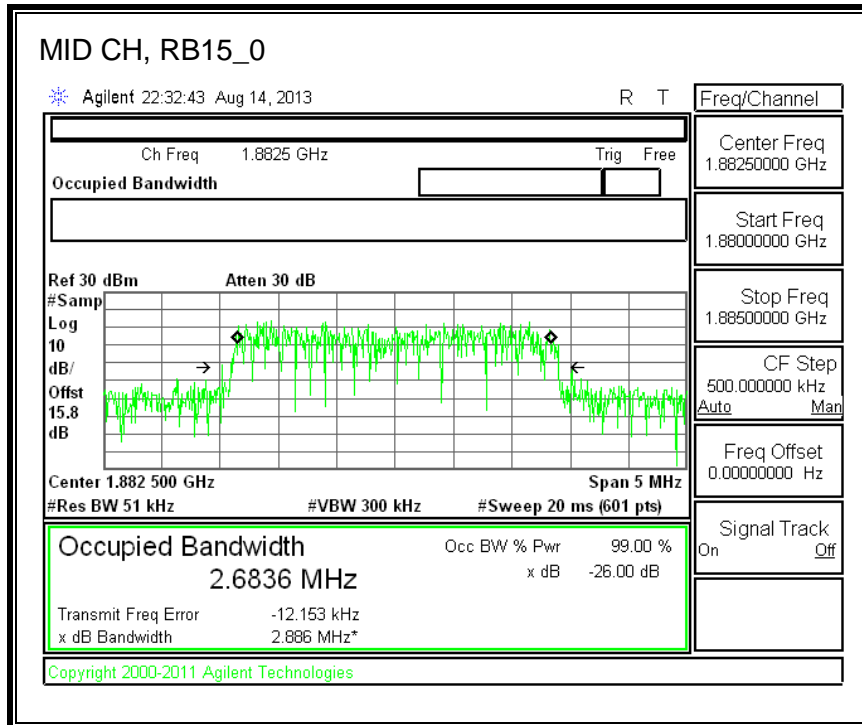
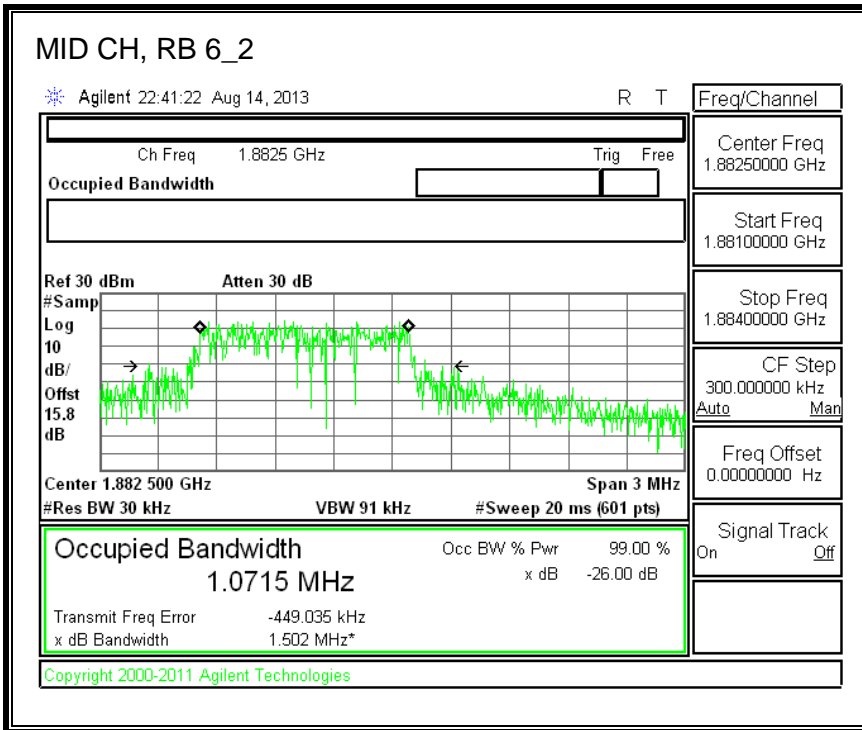
LTE QPSK

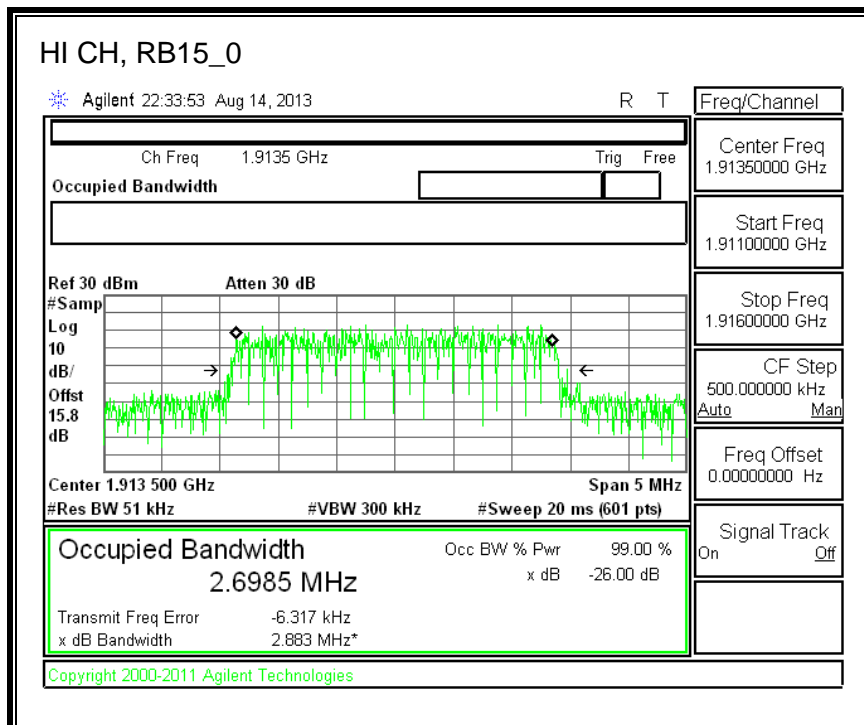
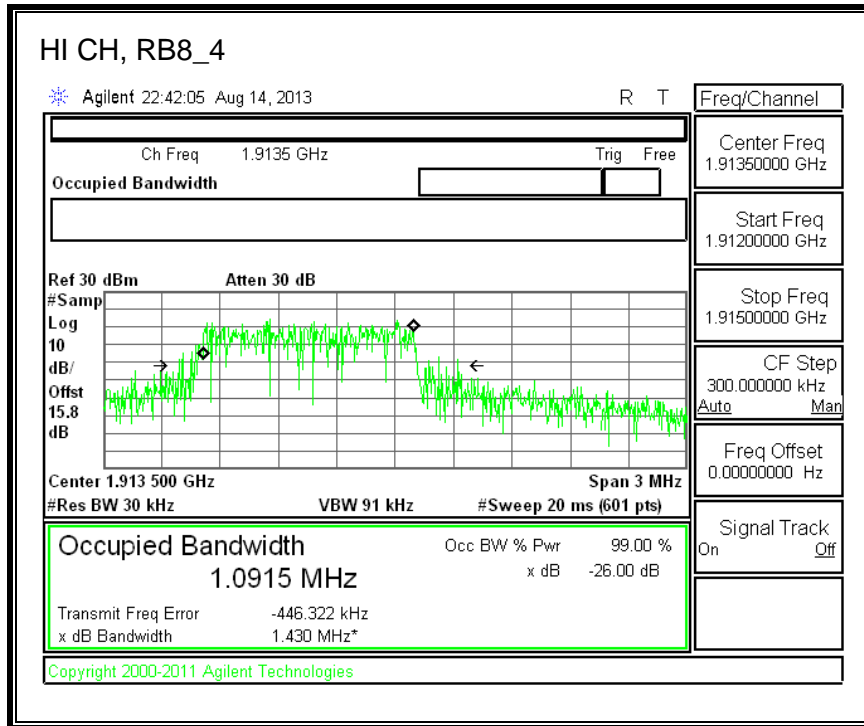






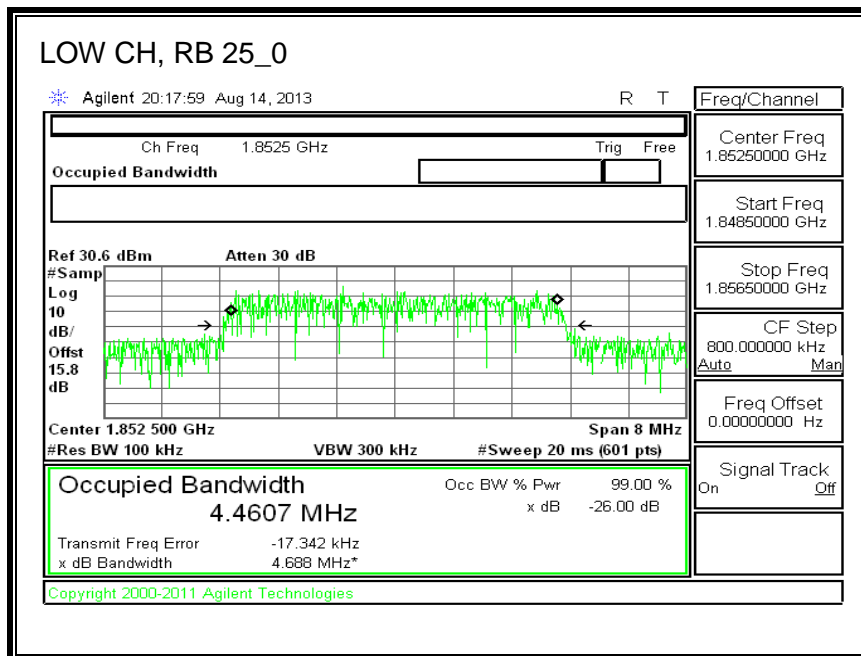
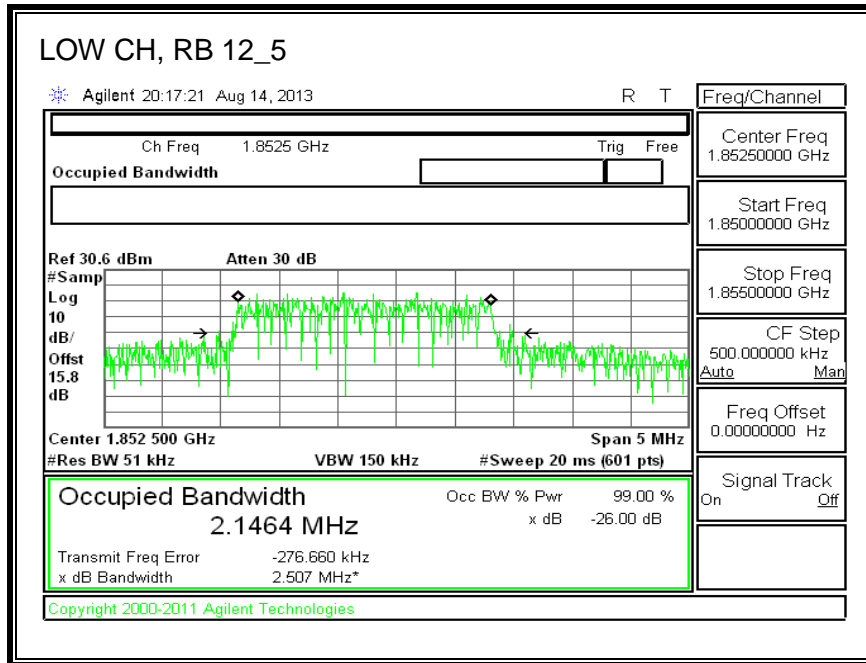


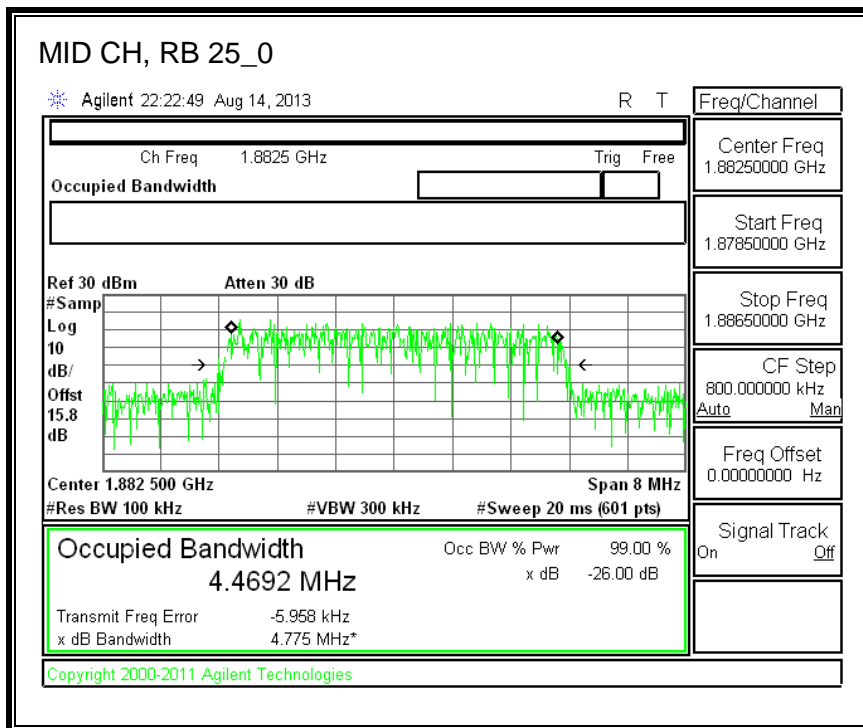
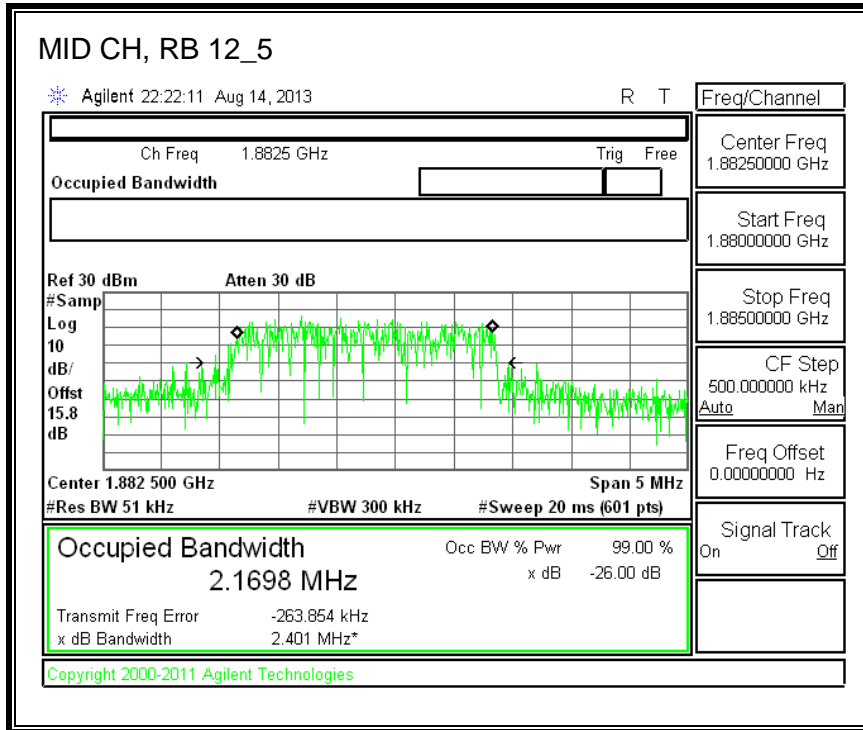


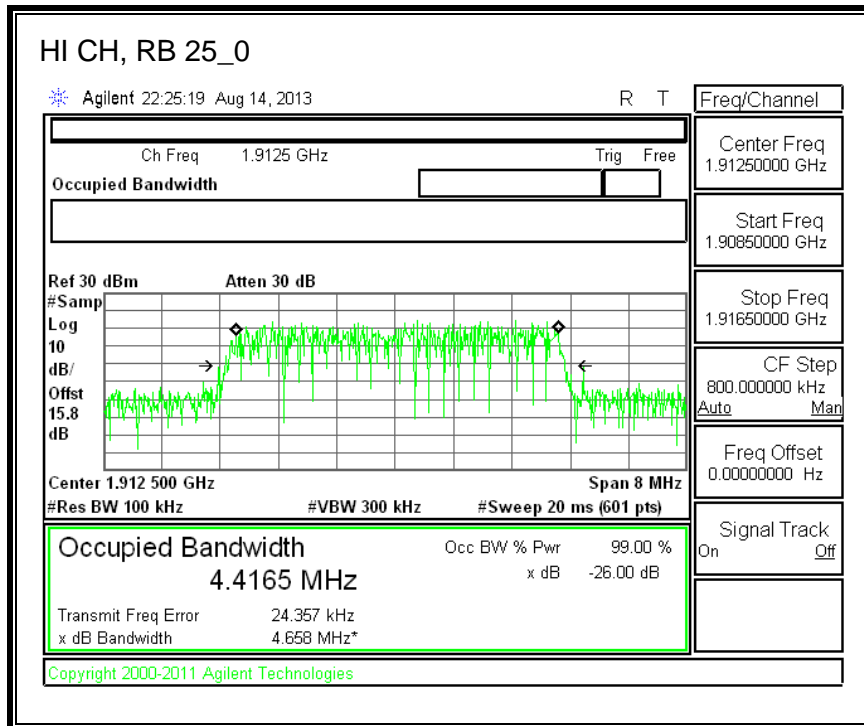
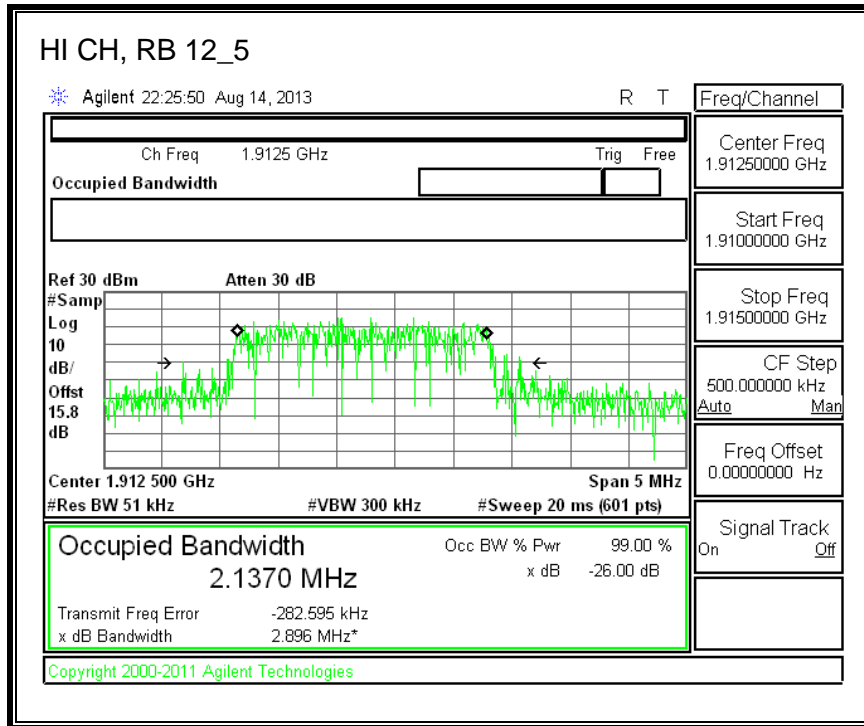


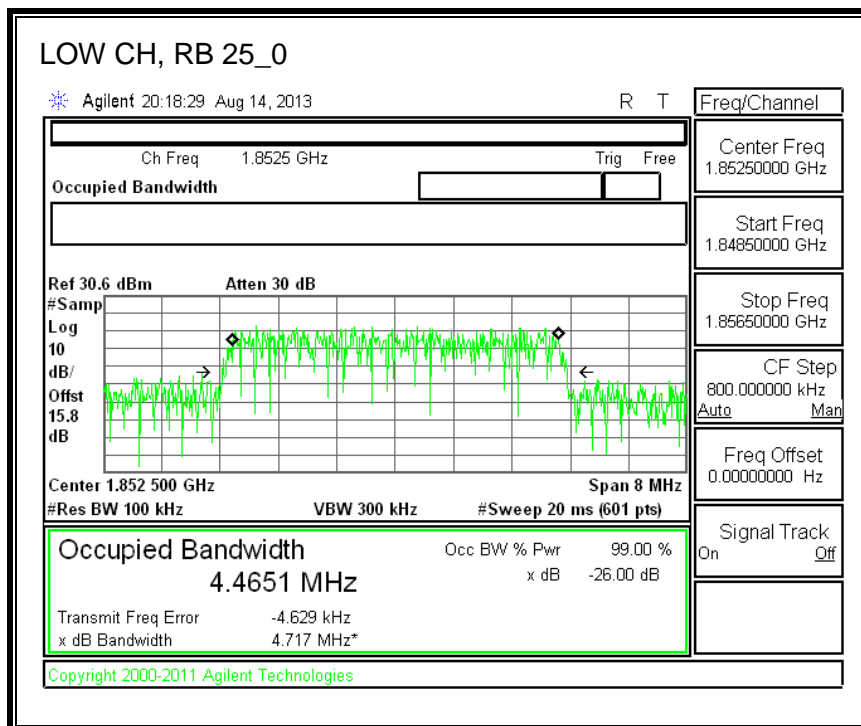
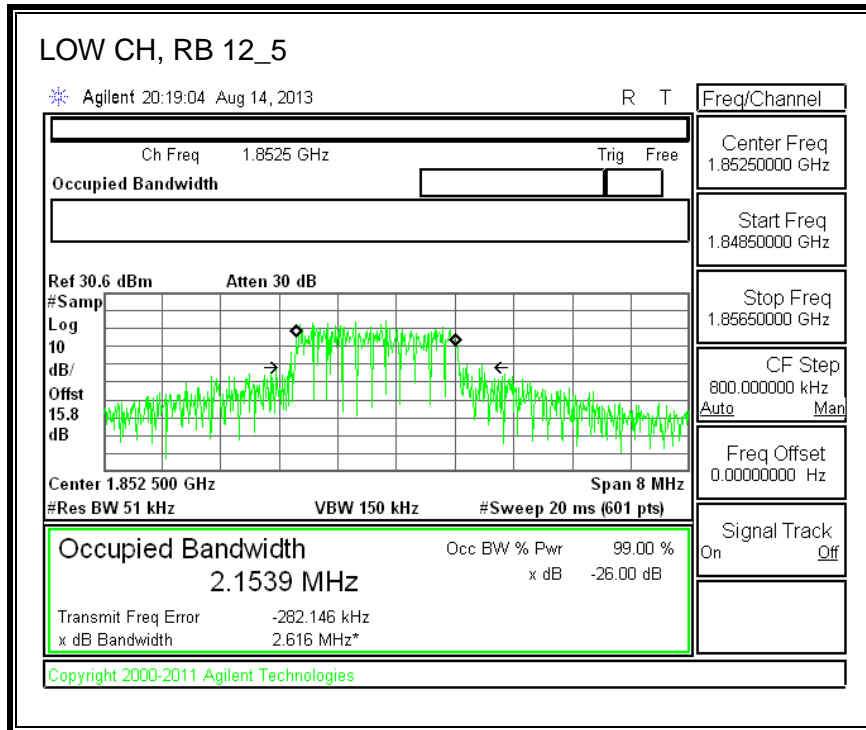
Band 25 (5 MHz BAND WIDTH)

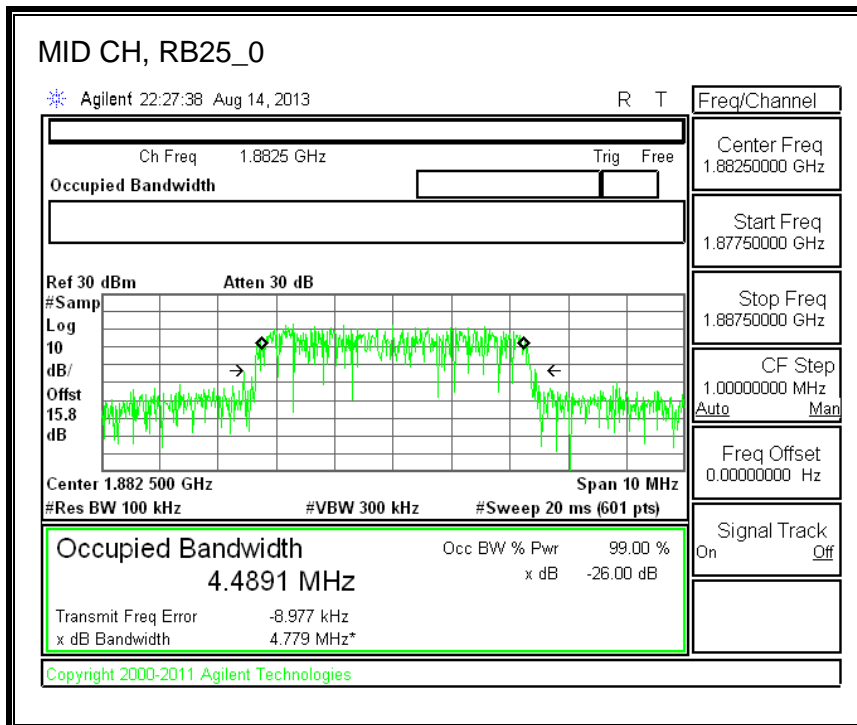
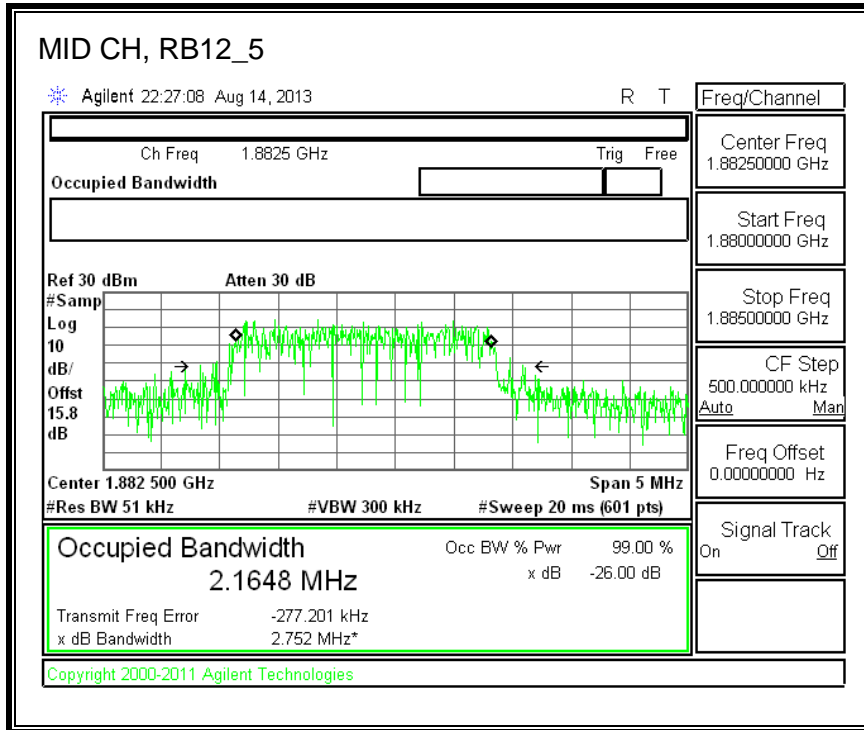
LTE QPSK

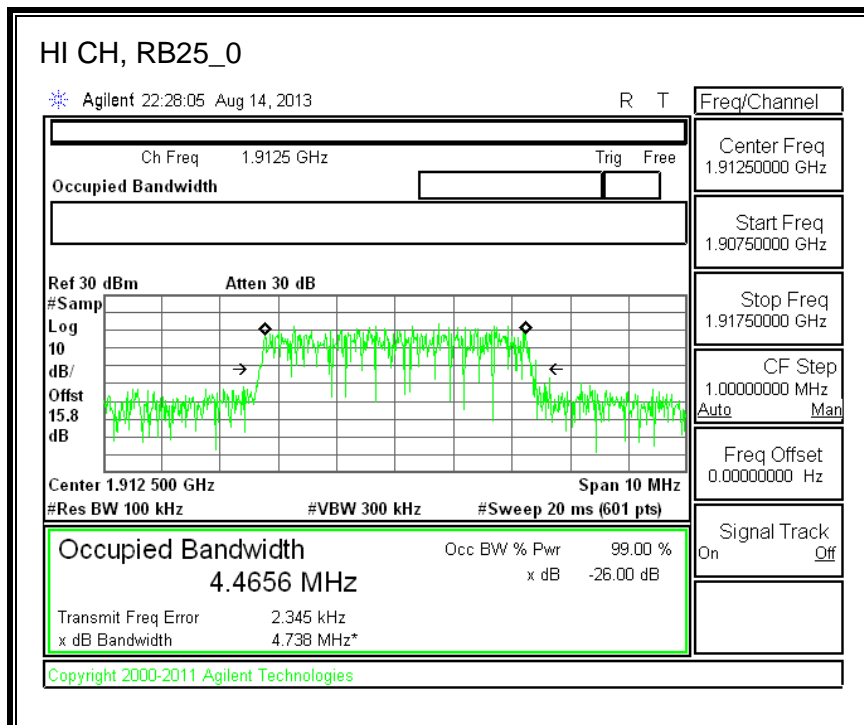
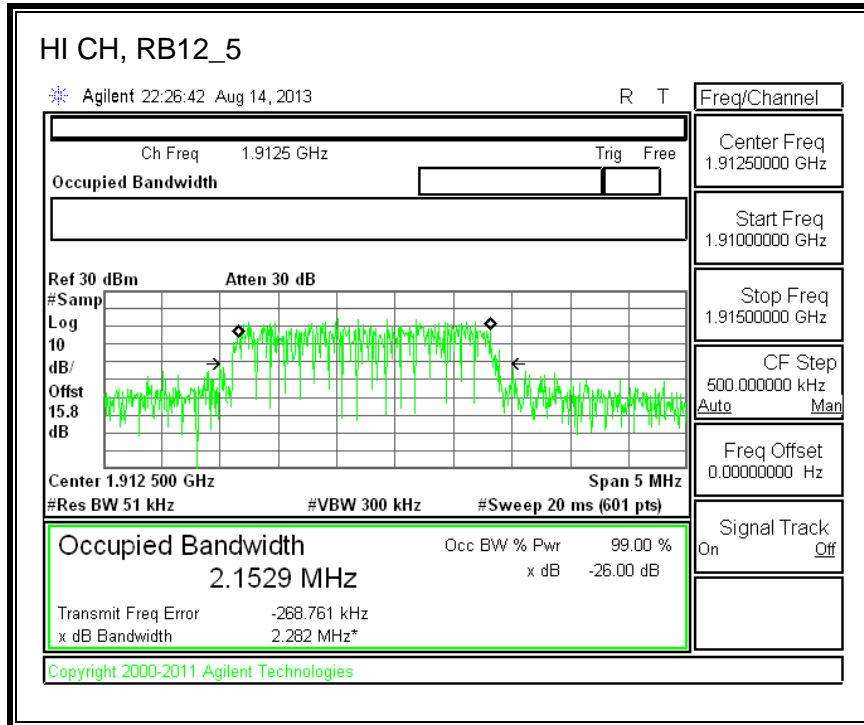






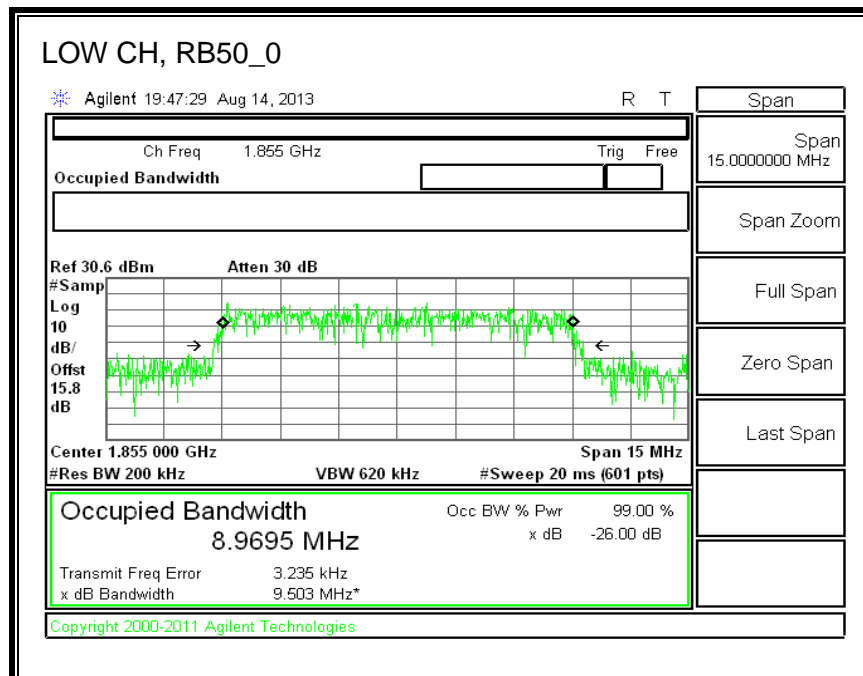
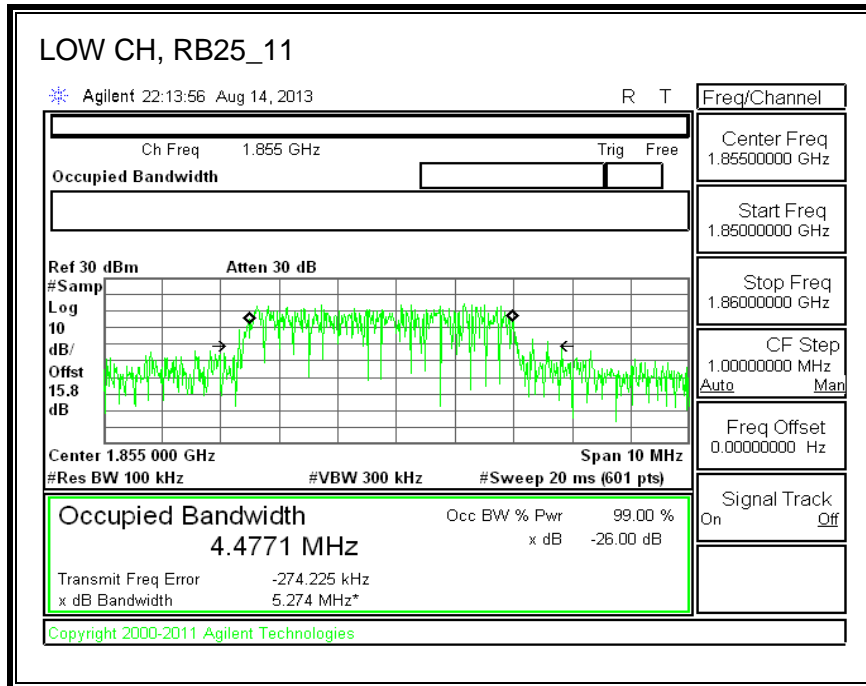


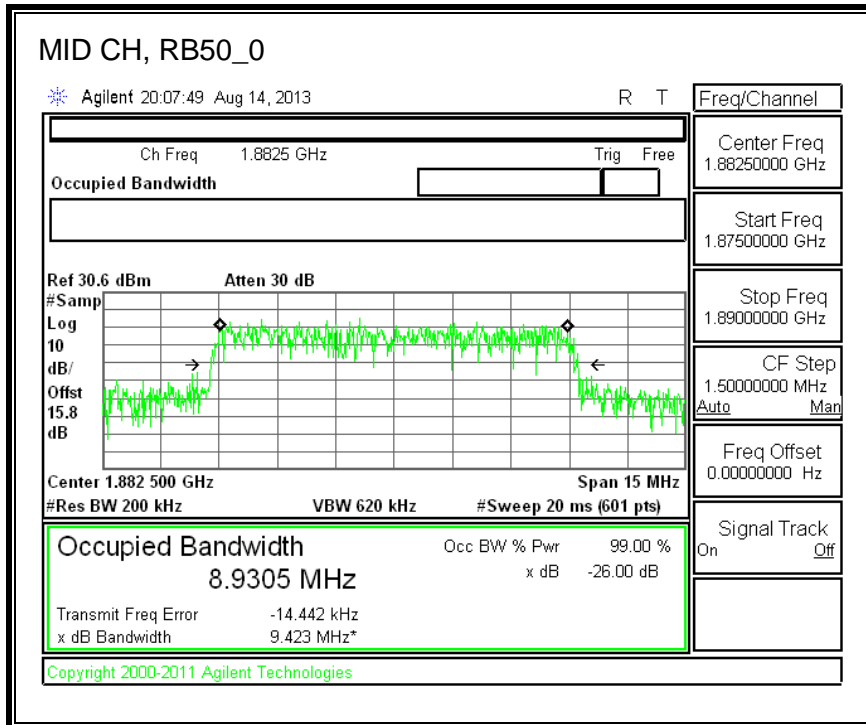
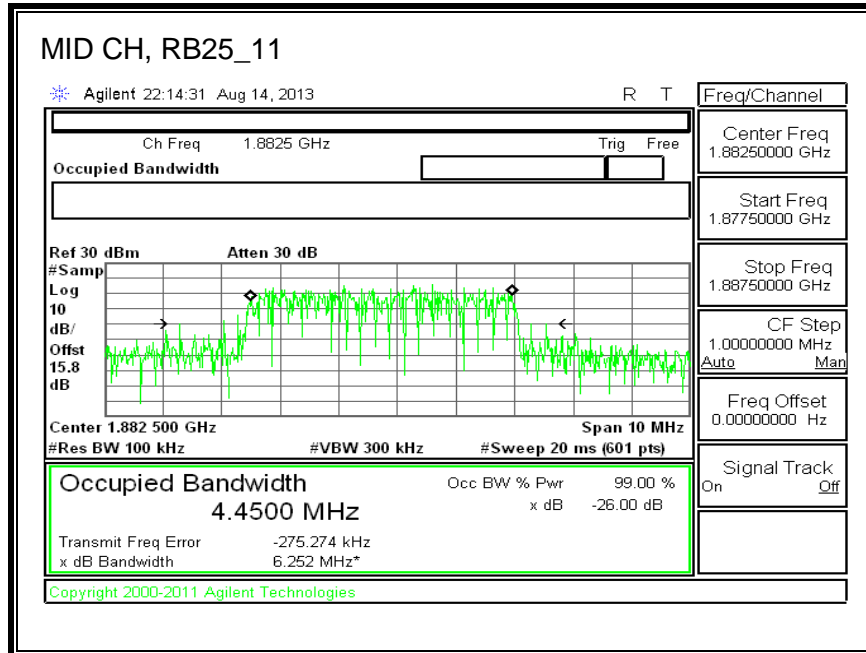


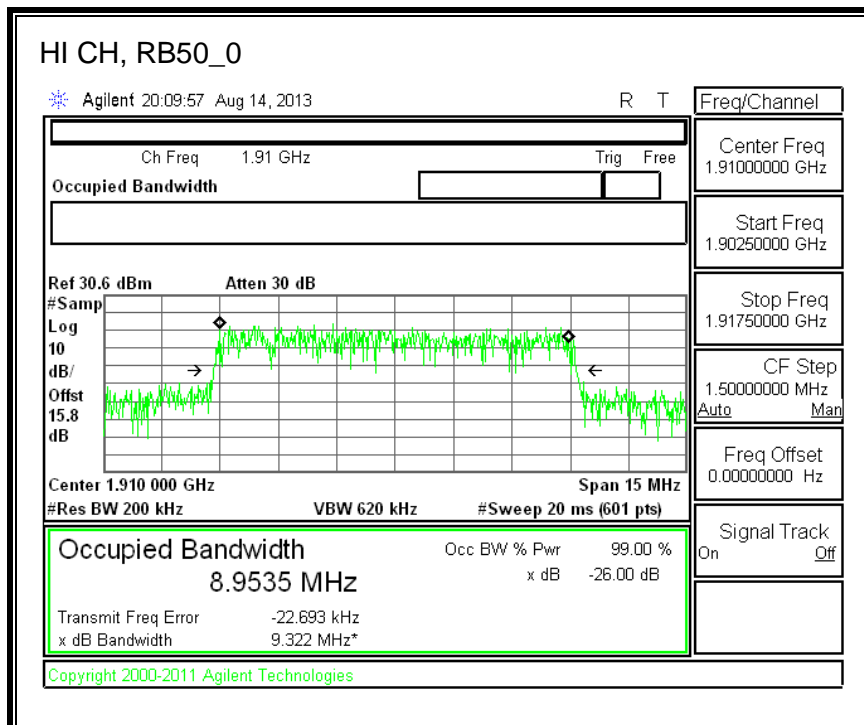
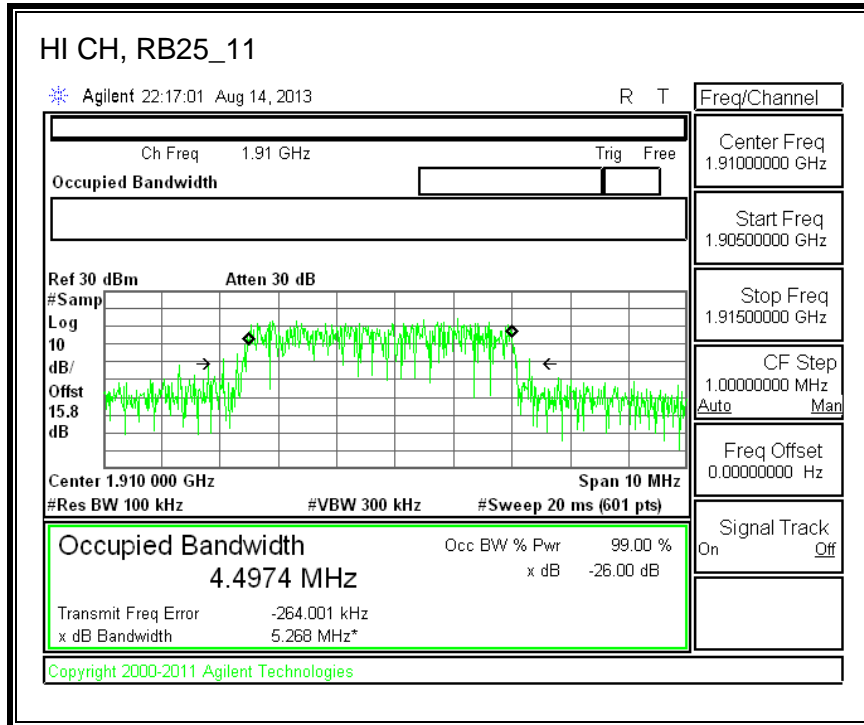


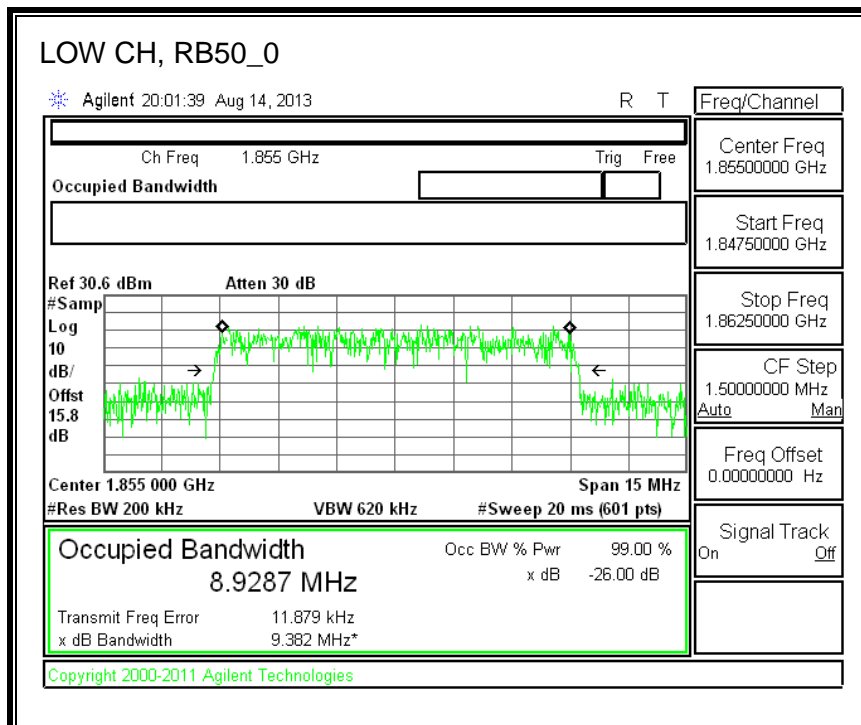
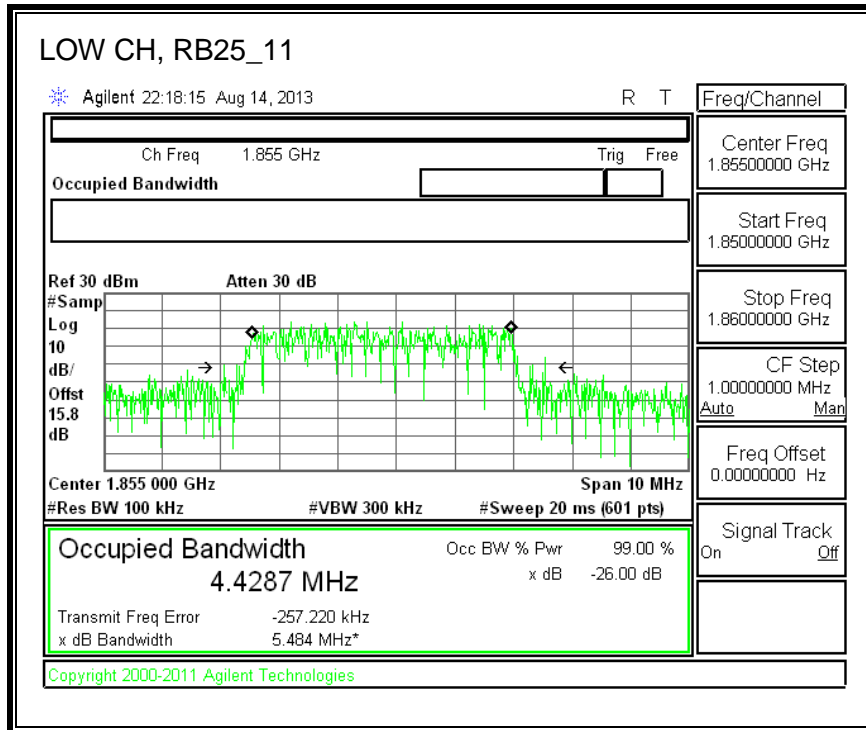
Band 25 (10 MHz BANDWIDTH)

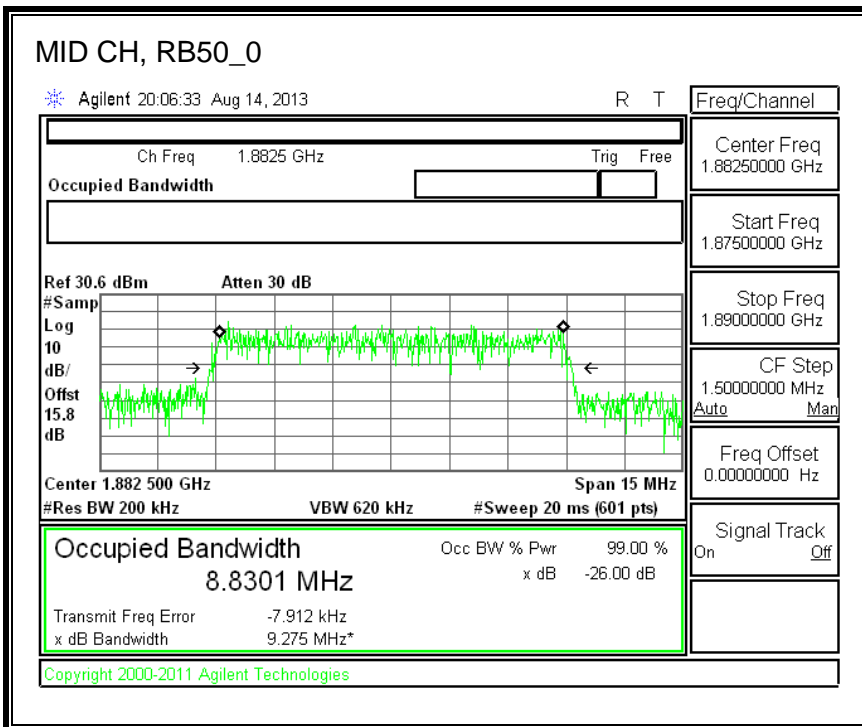
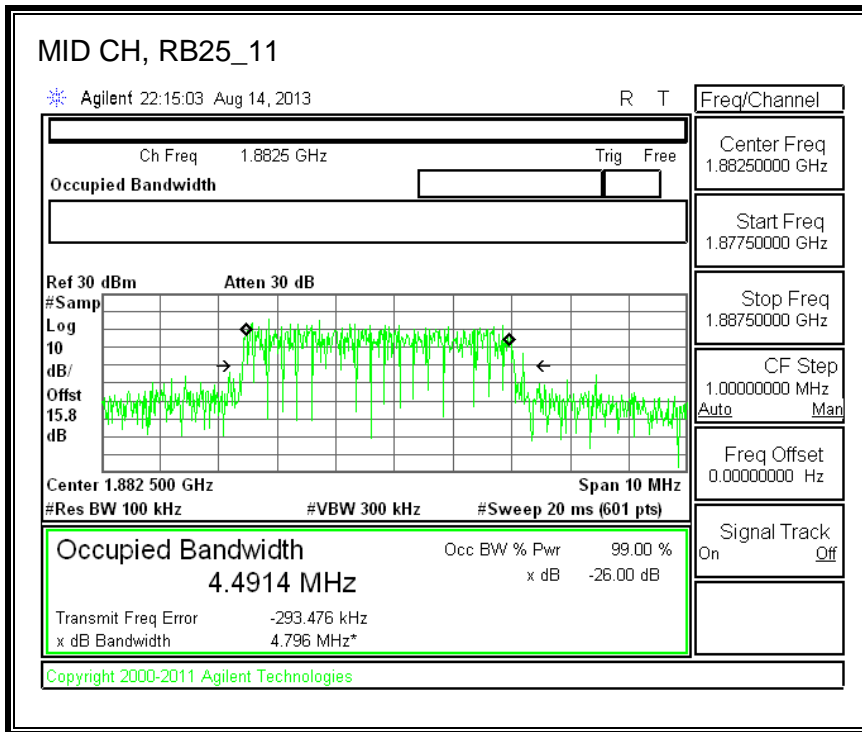
LTE QPSK

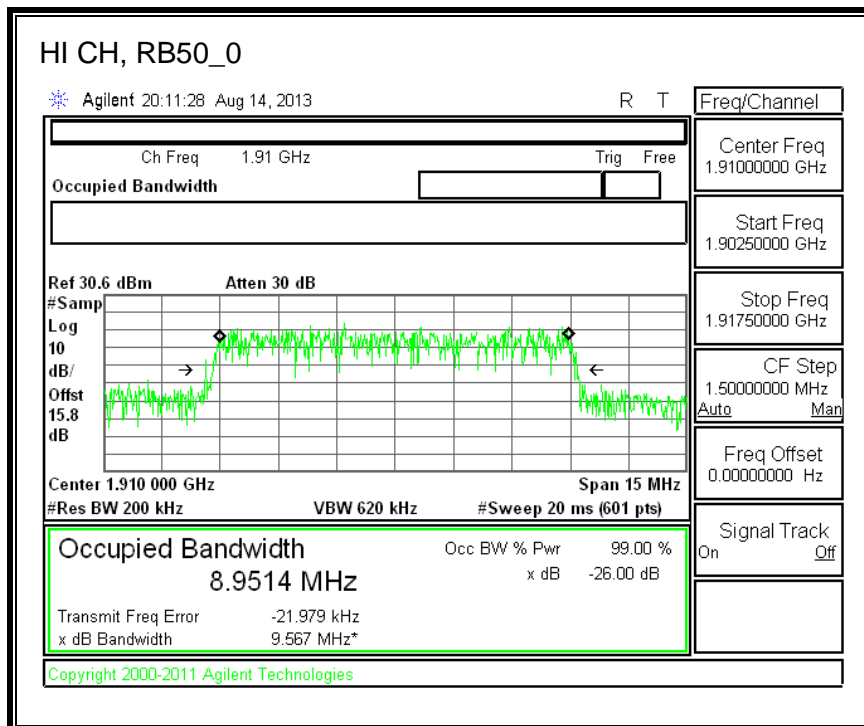
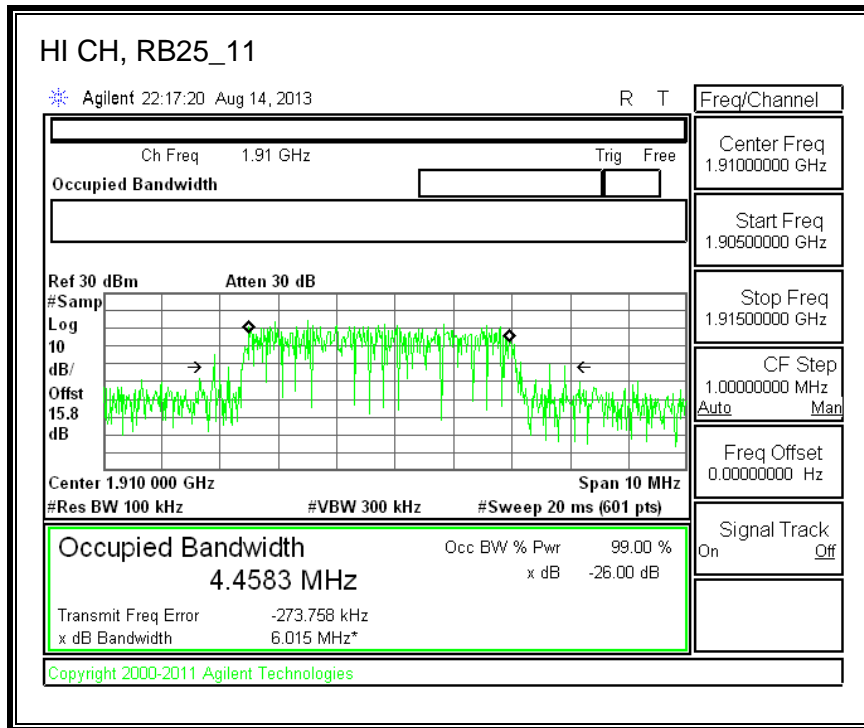








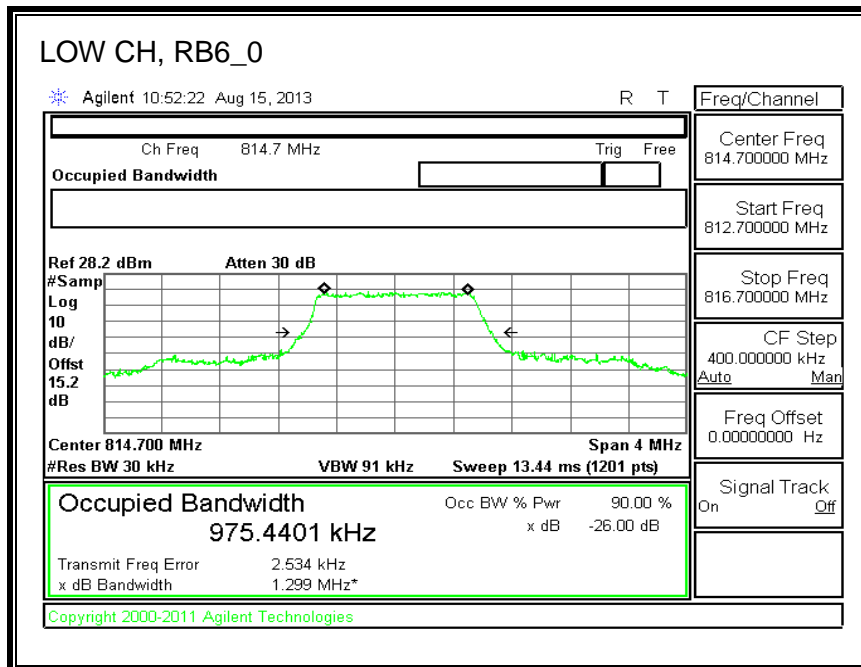
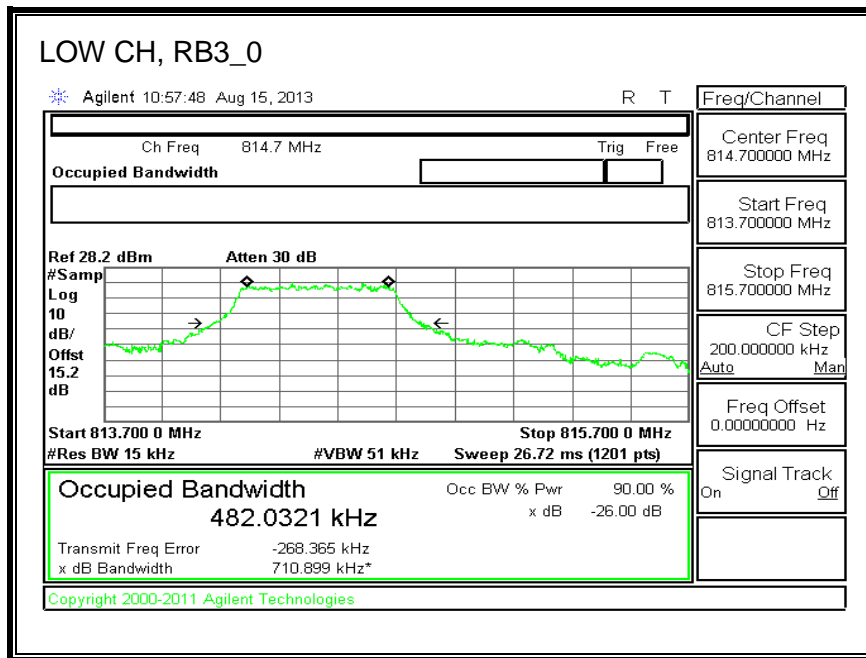


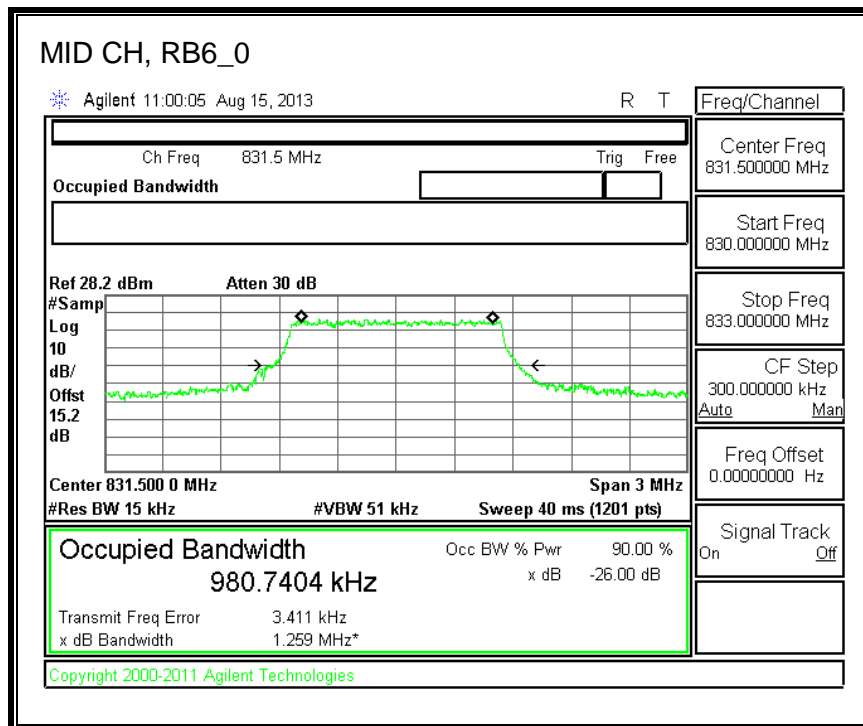
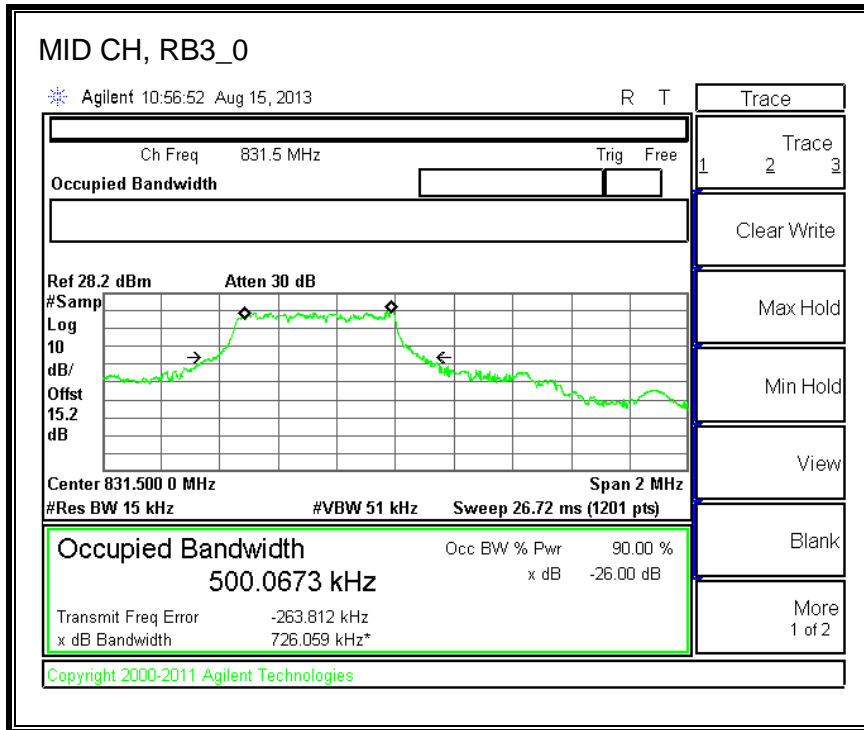


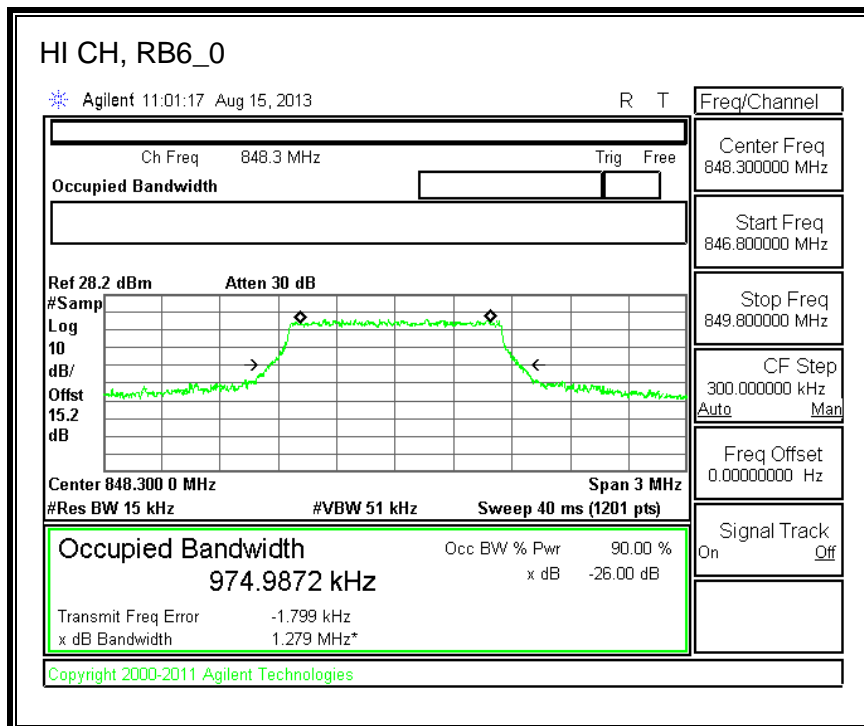
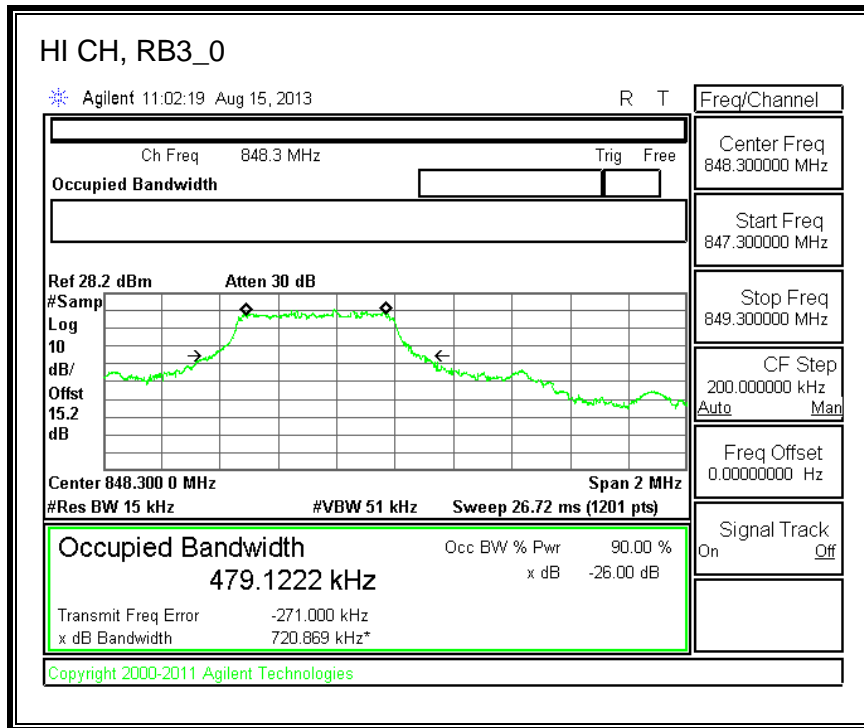
8.1.4. LTE BAND 26

Band 26 (1.4 MHz BANDWIDTH)

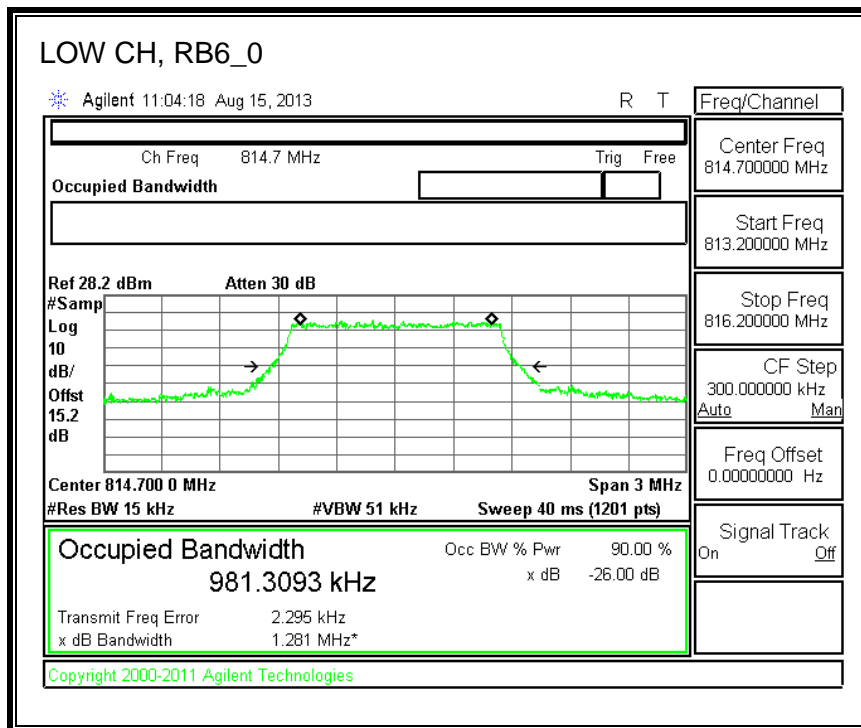
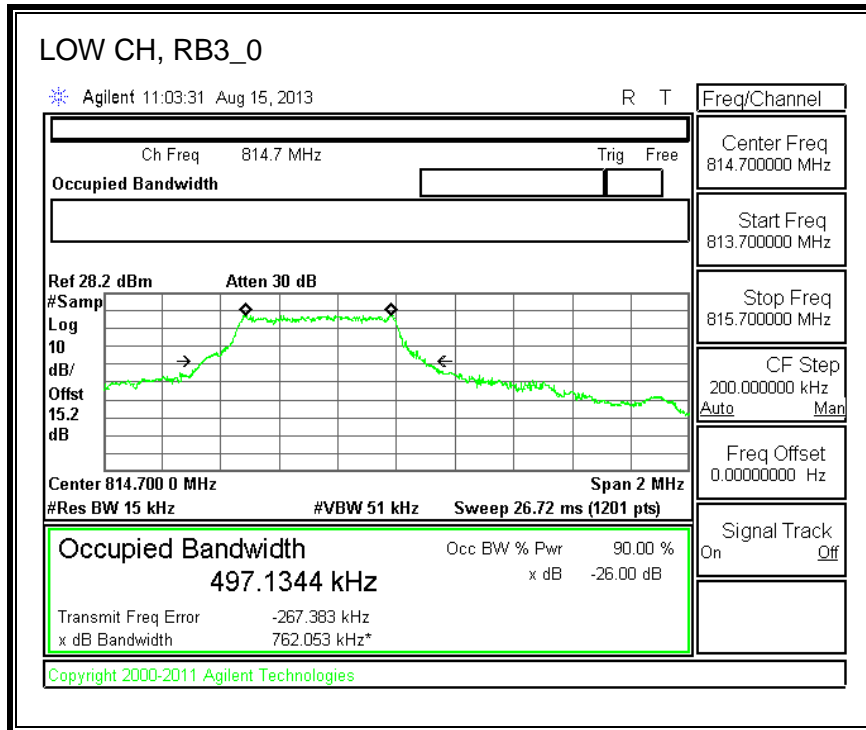
LTE QPSK

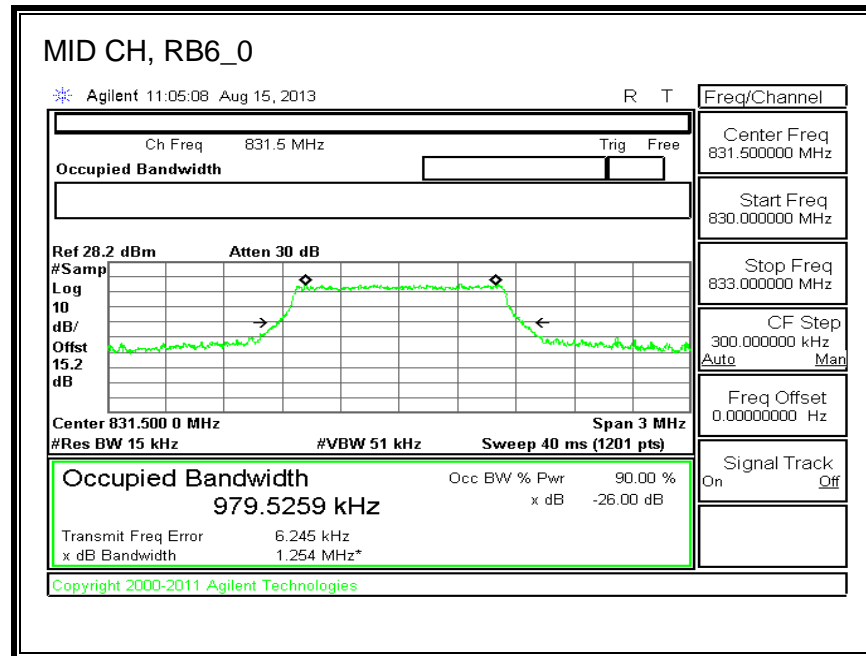
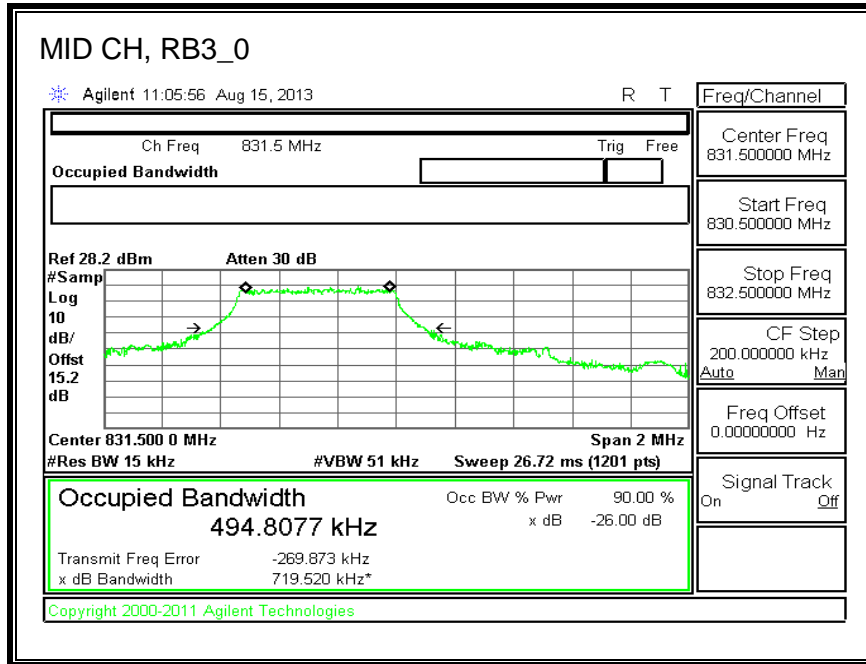


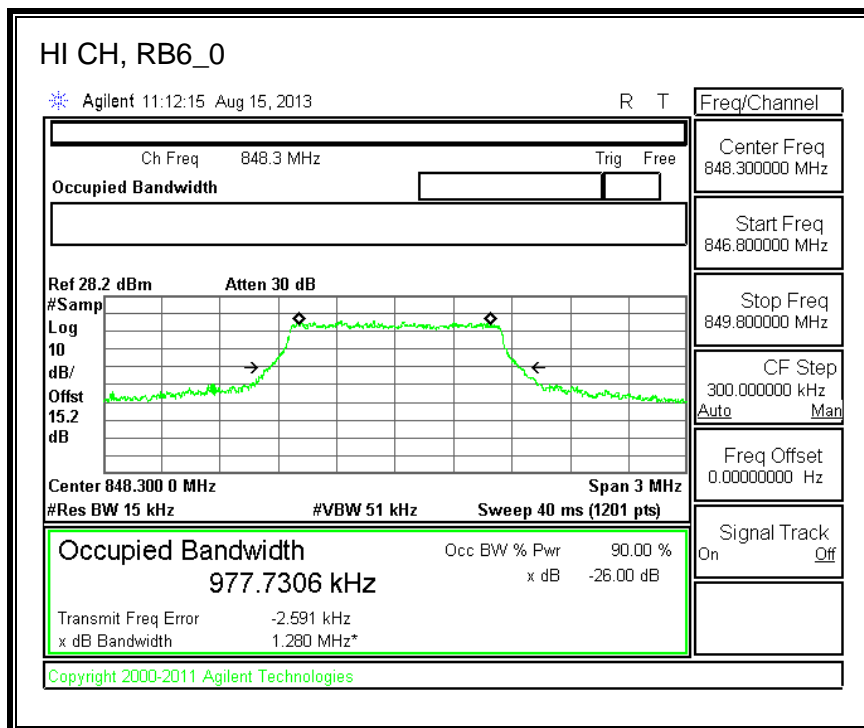
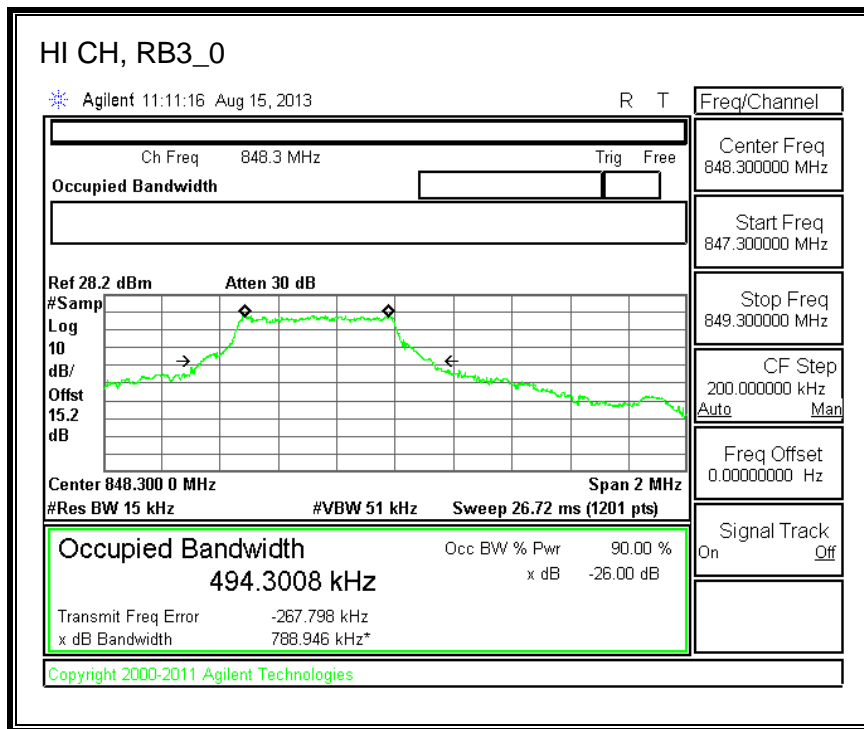




LTE 16QAM

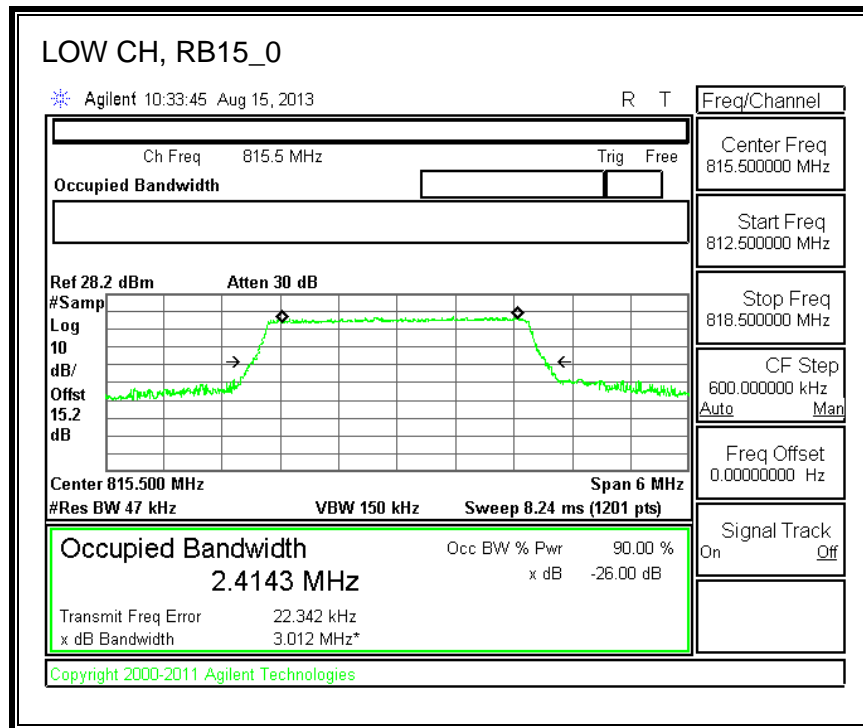
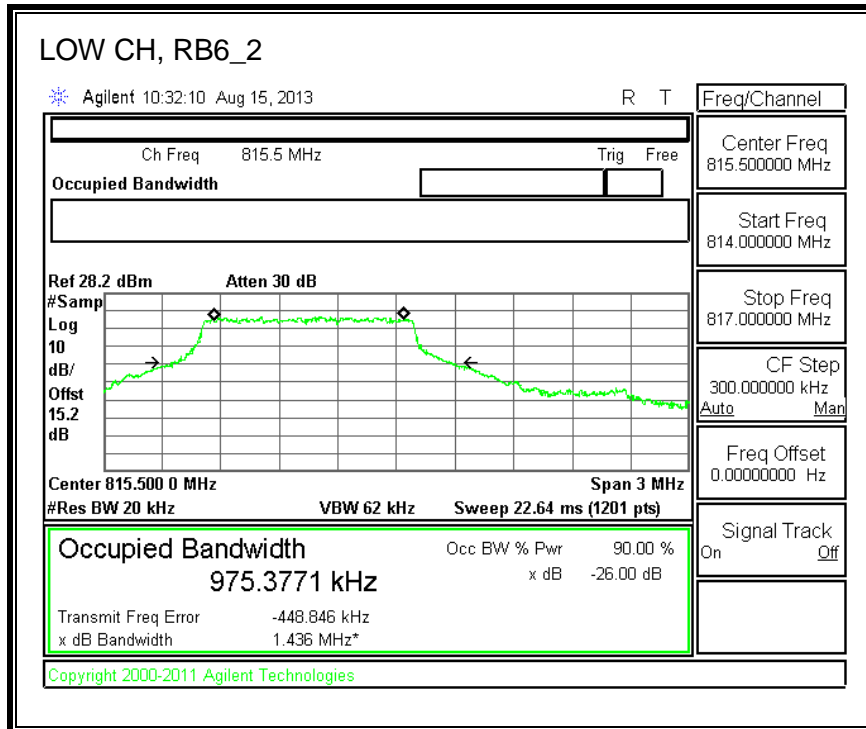


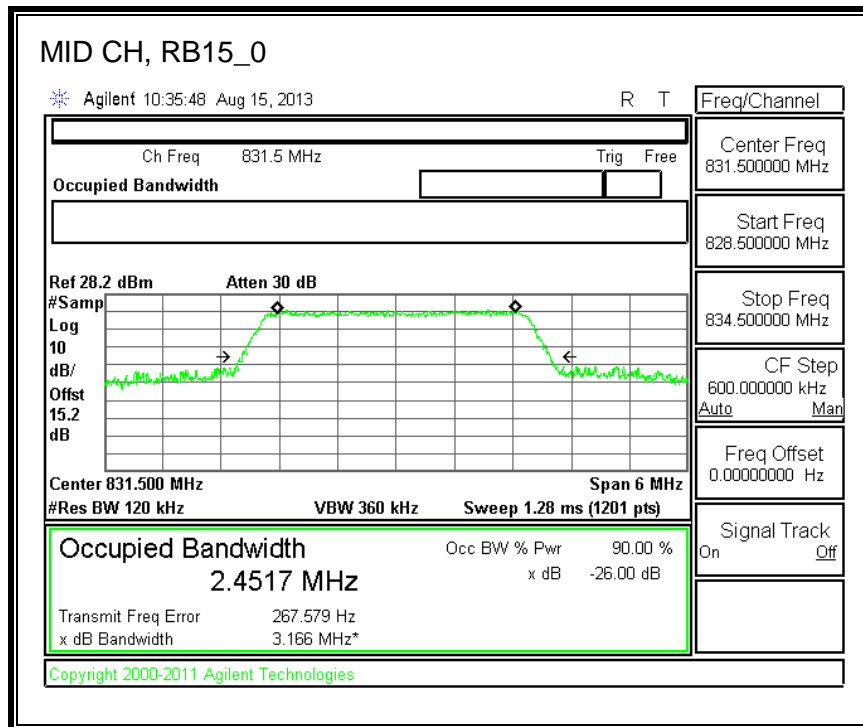
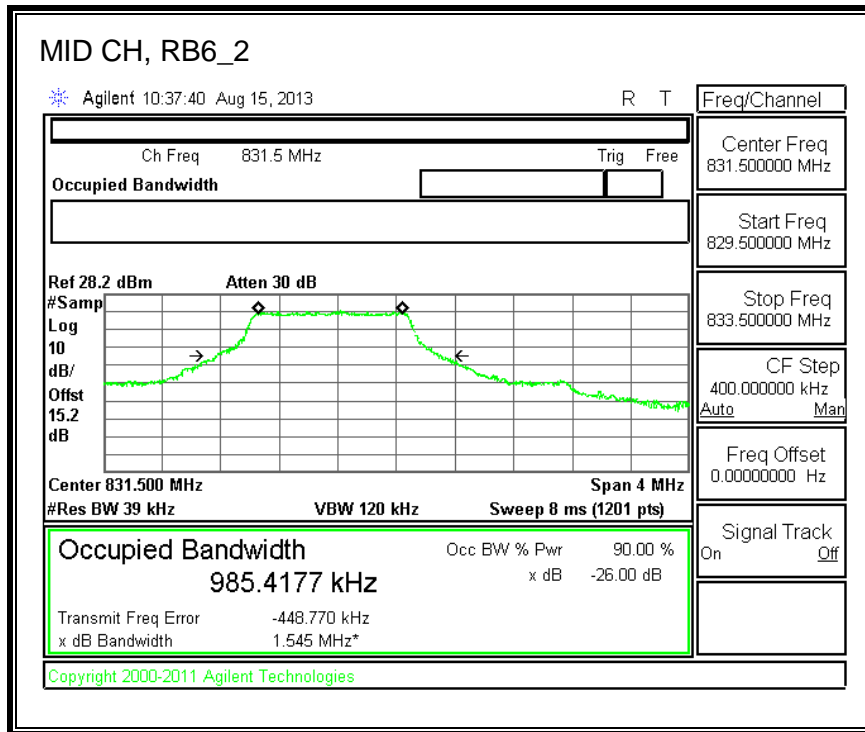


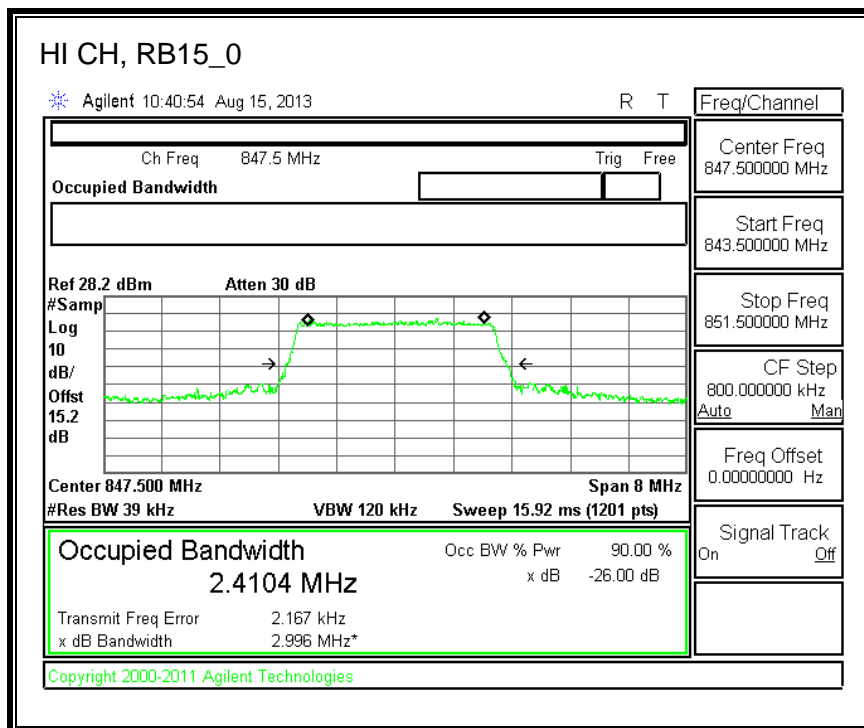
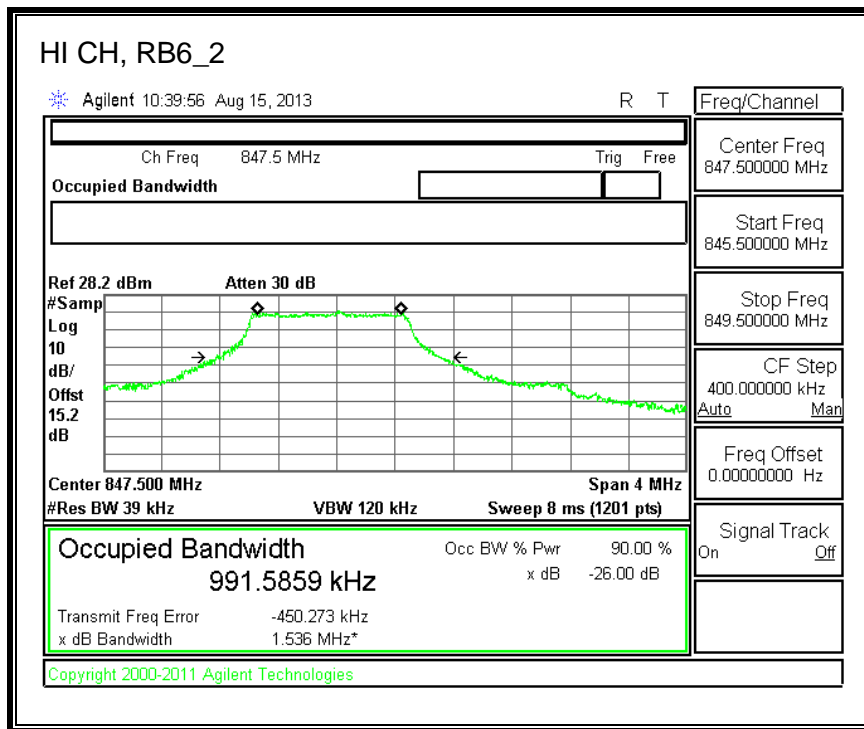


Band 26 (3 MHz BANDWIDTH)

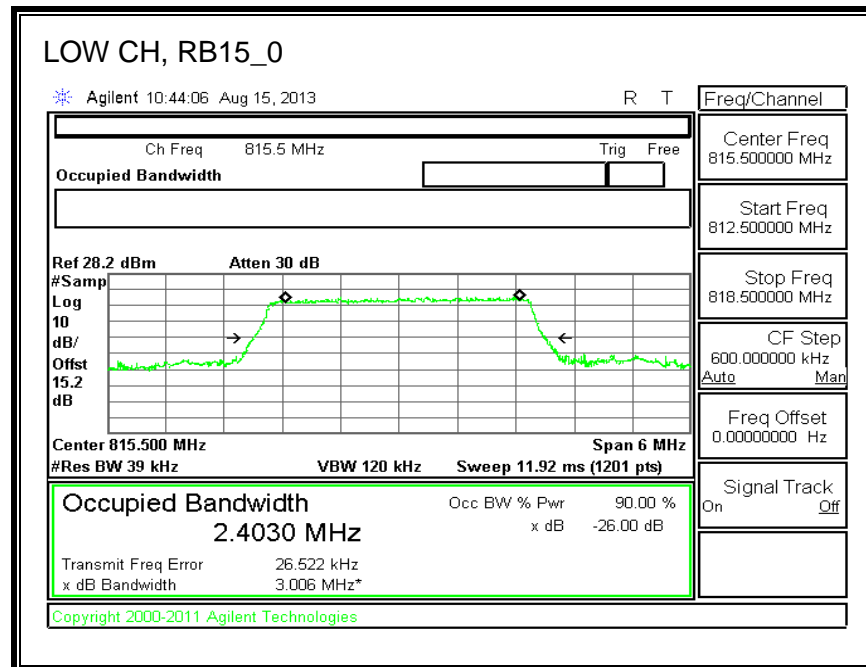
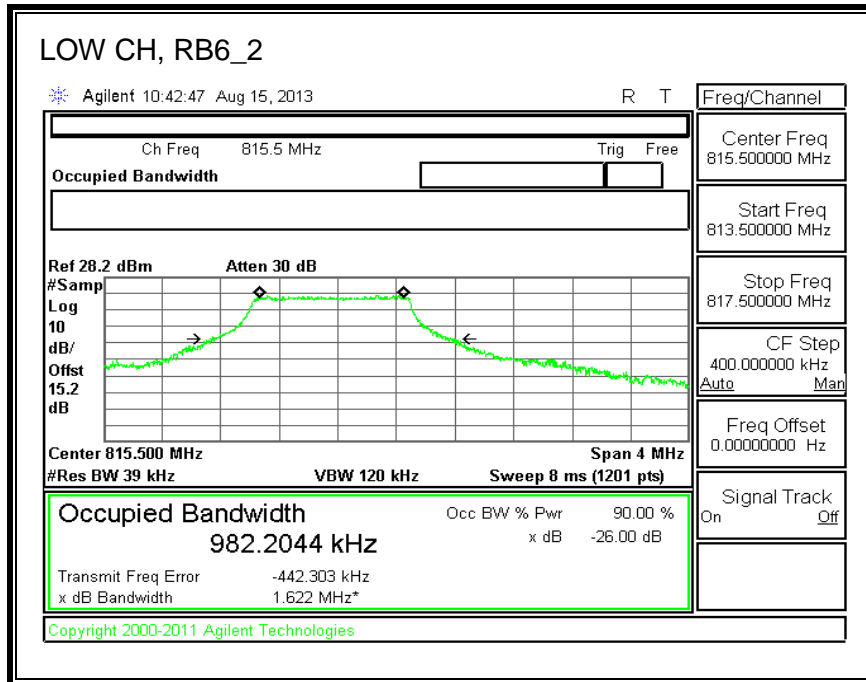
LTE QPSK

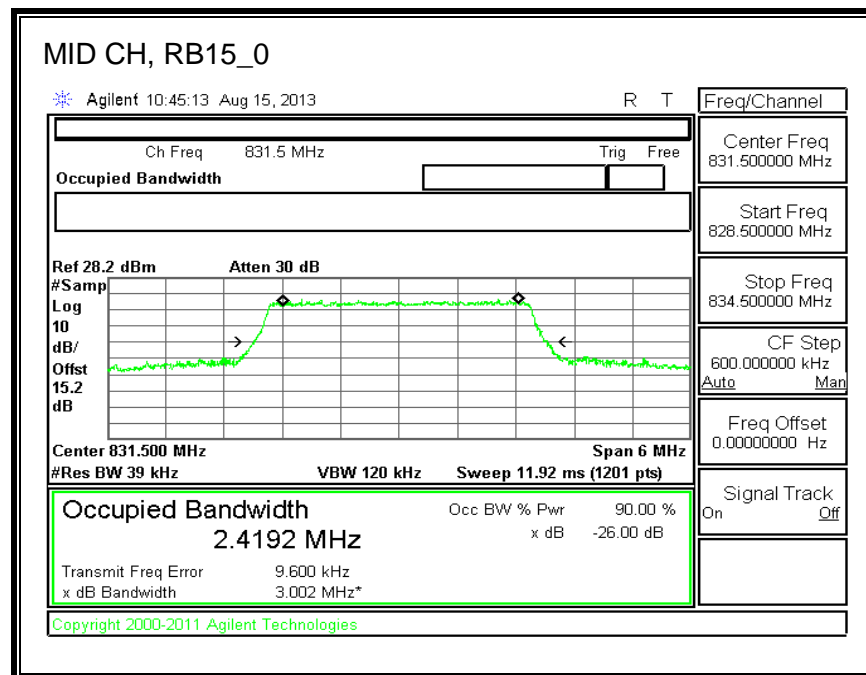
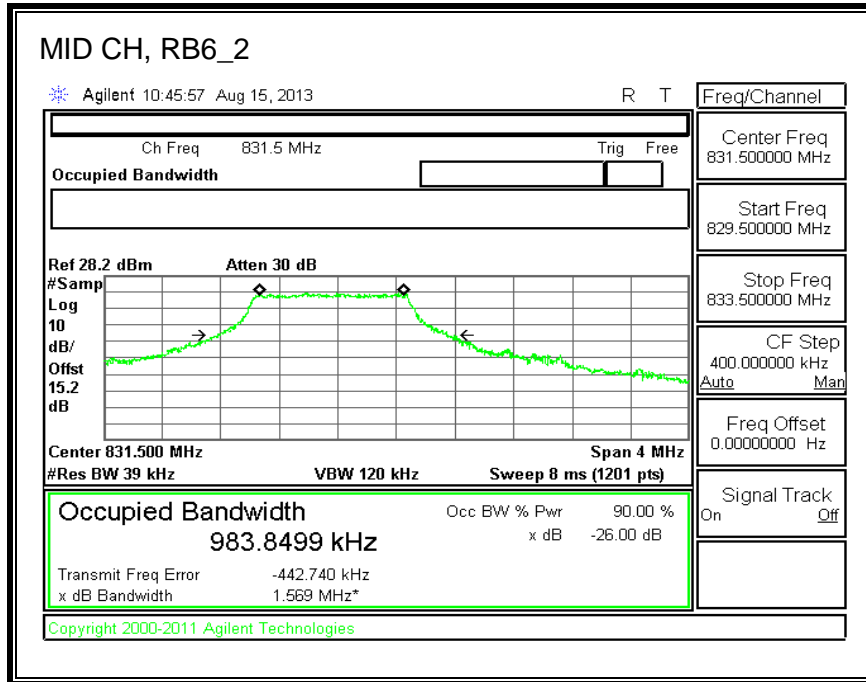


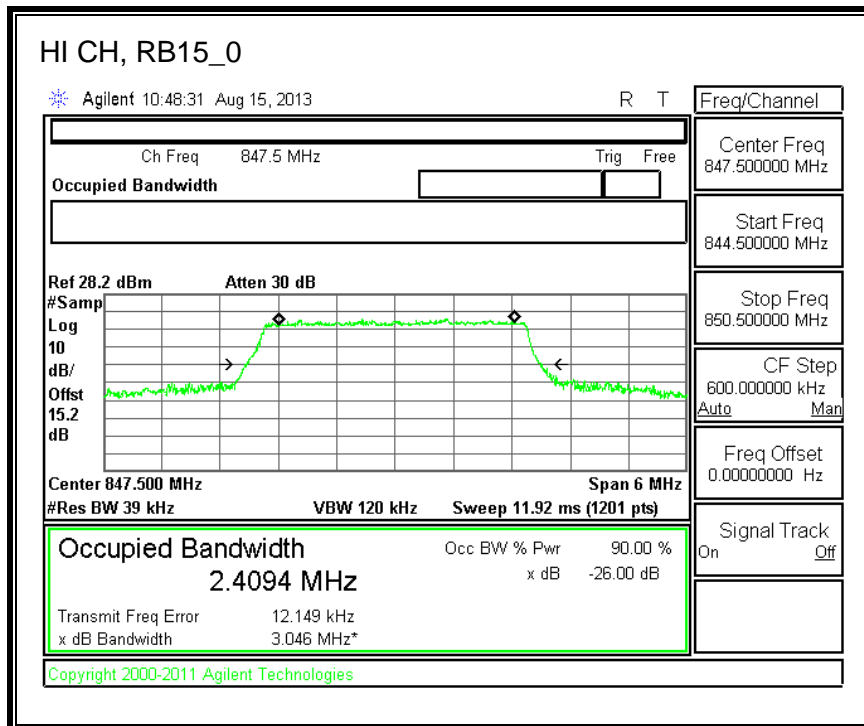
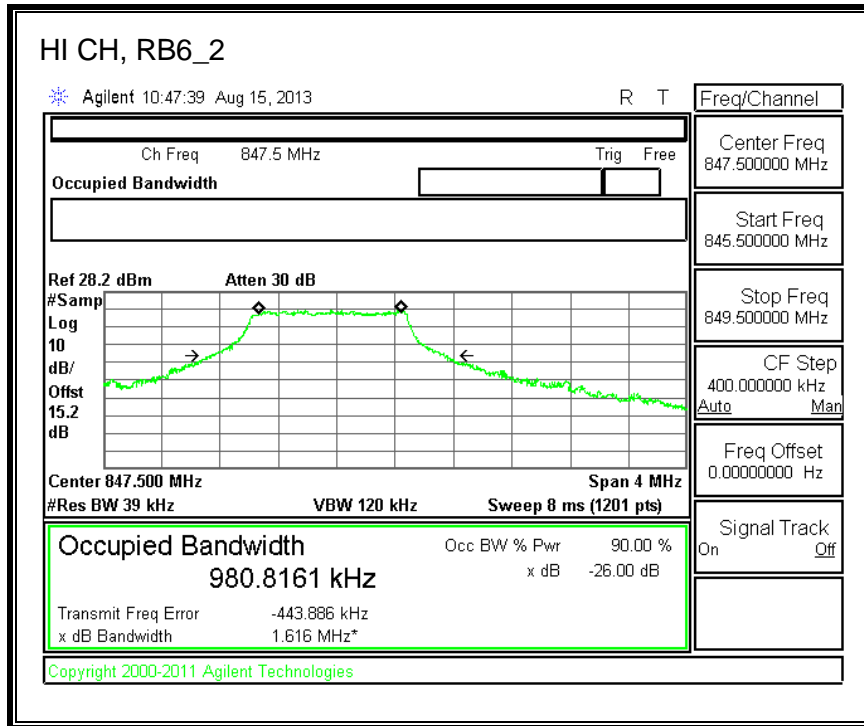




LTE 16QAM

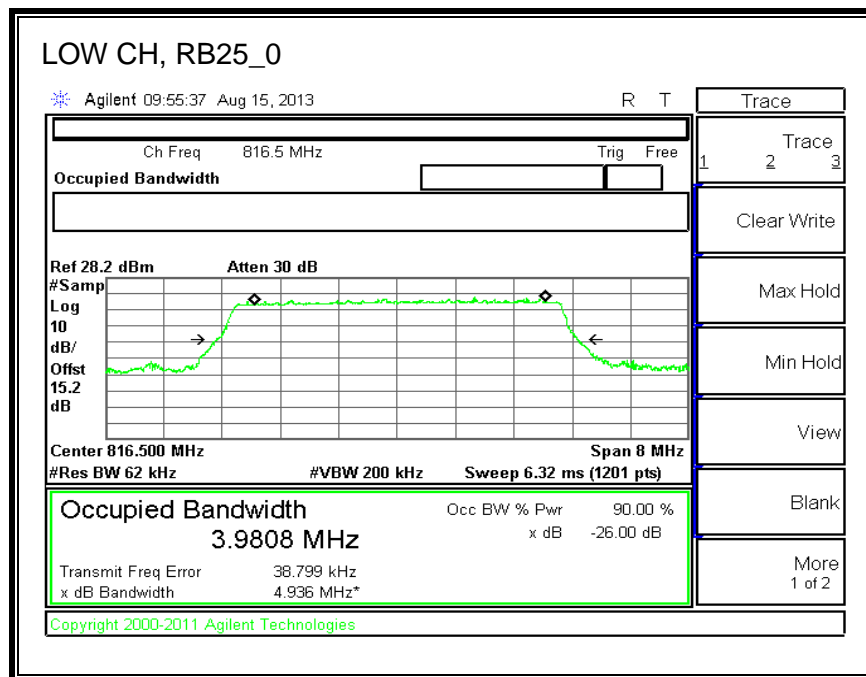
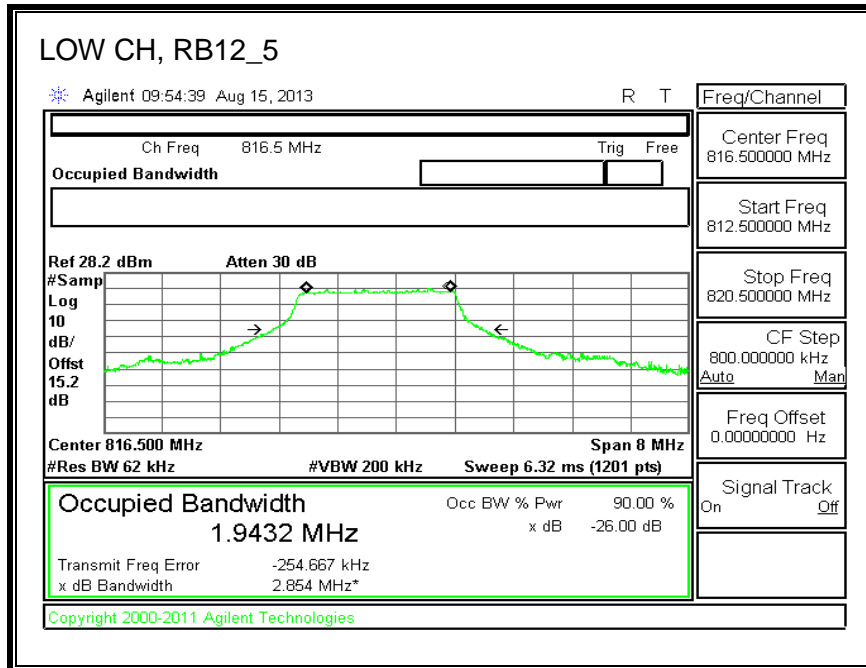


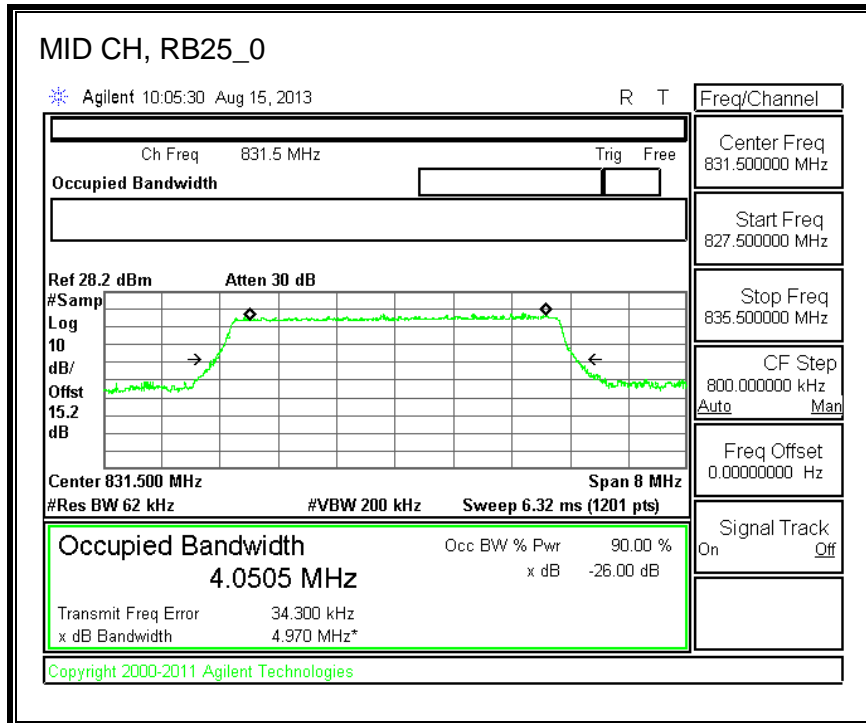
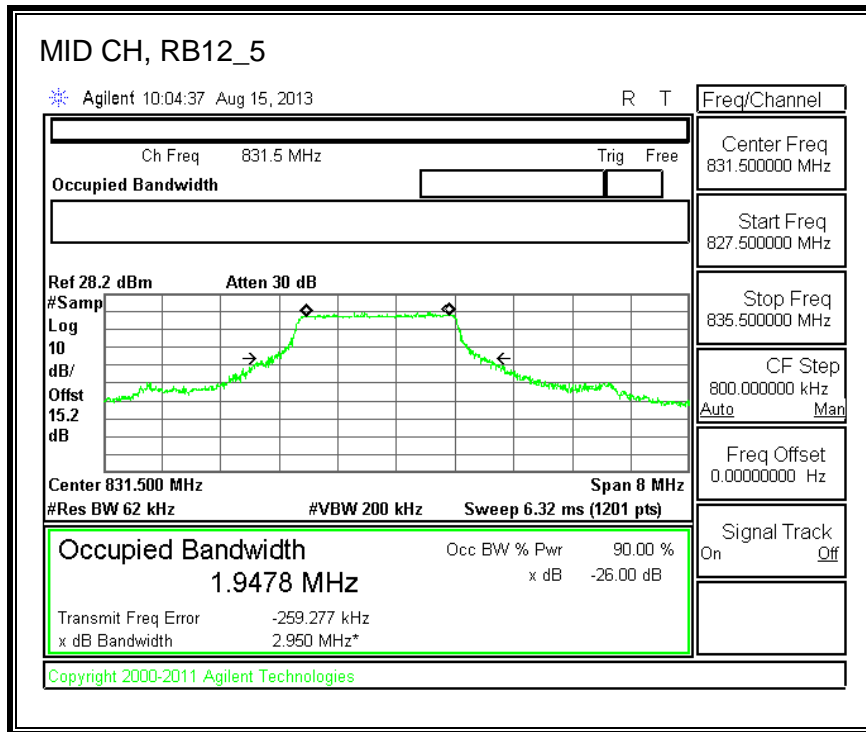


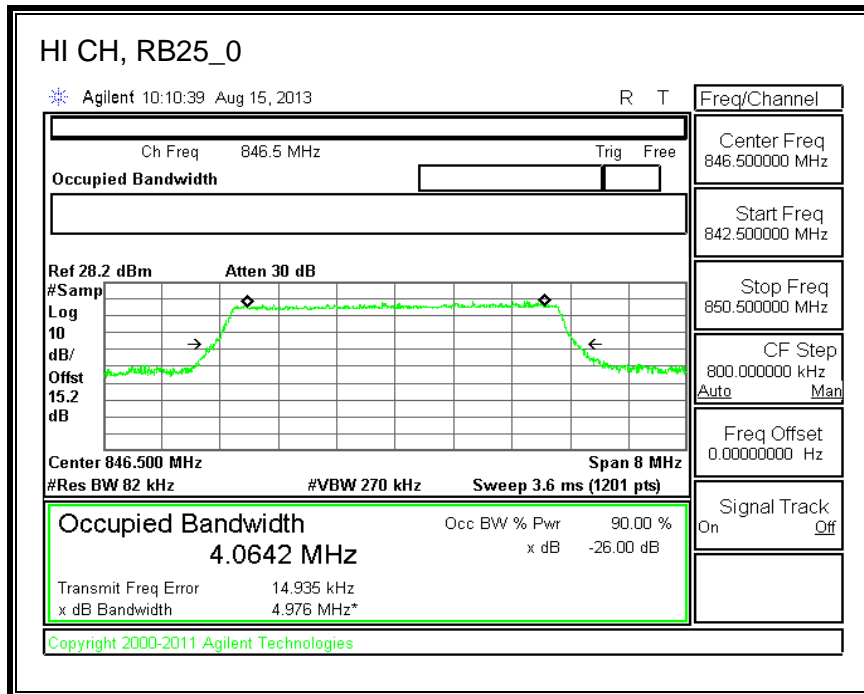
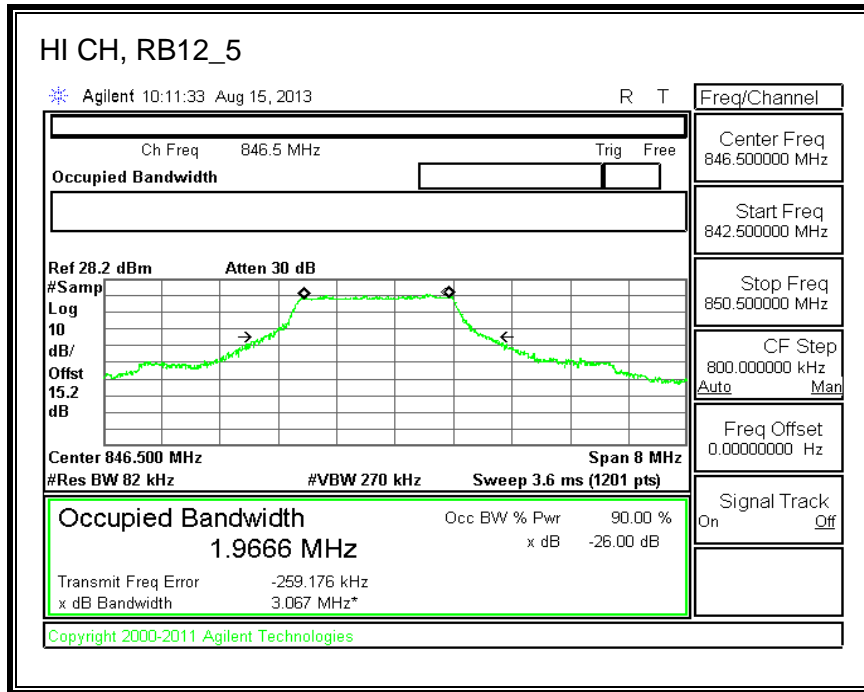


Band 26 (5 MHz BANDWIDTH)

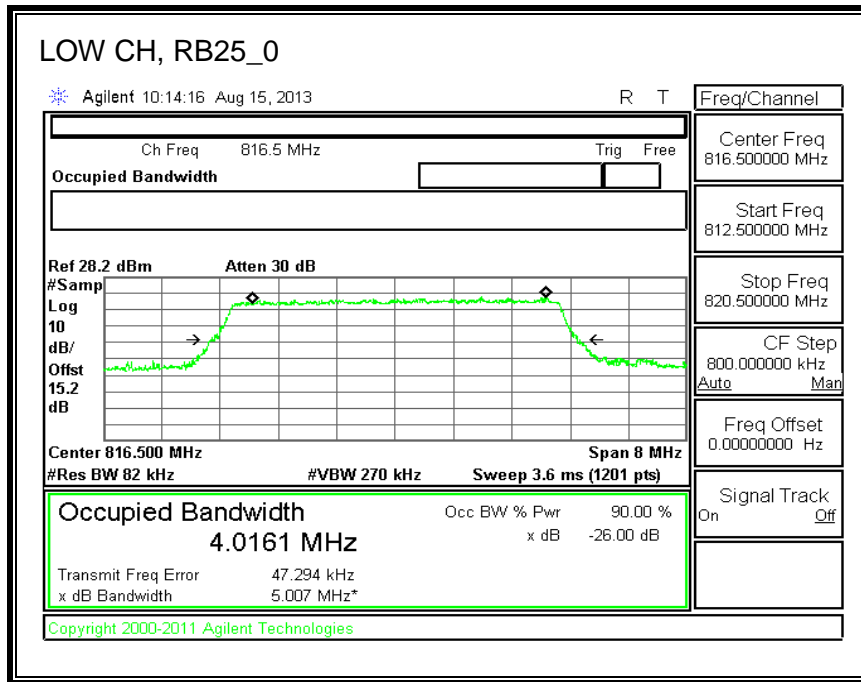
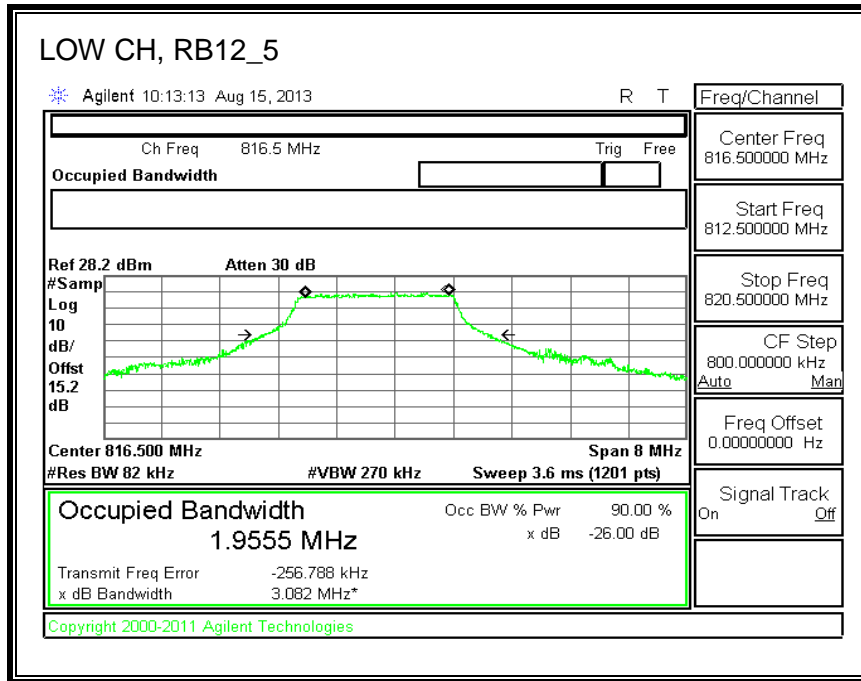
LTE QPSK

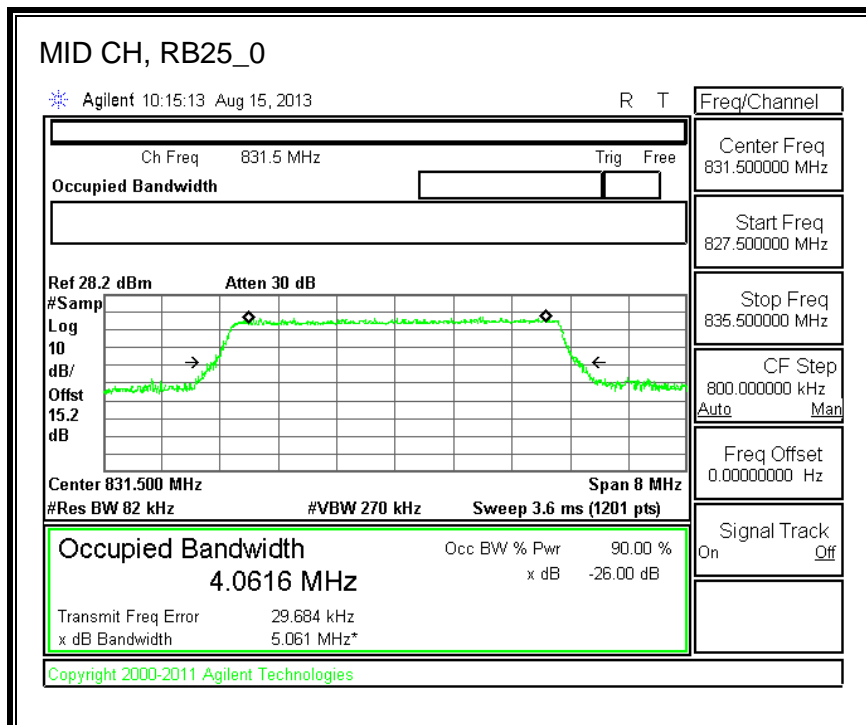
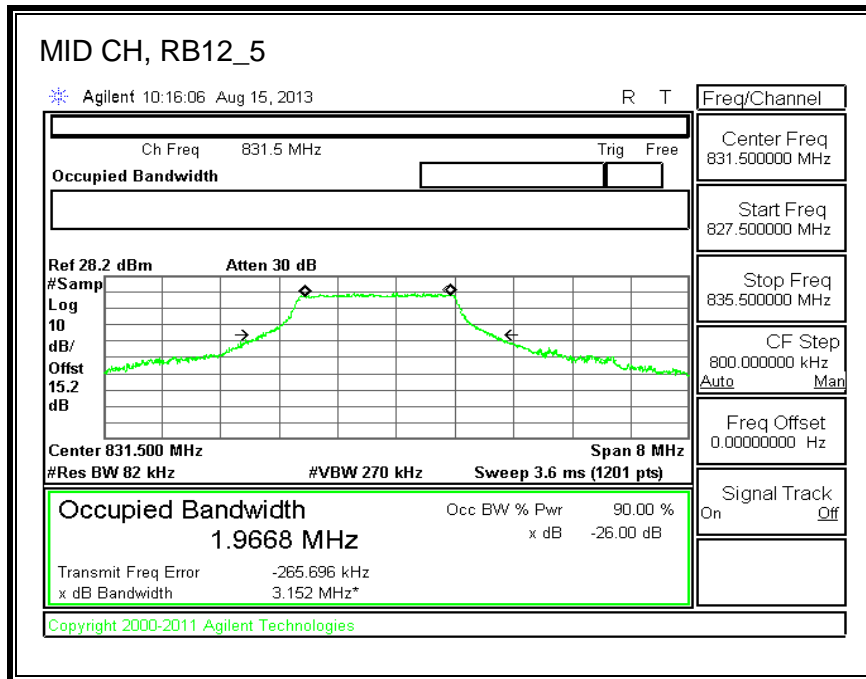


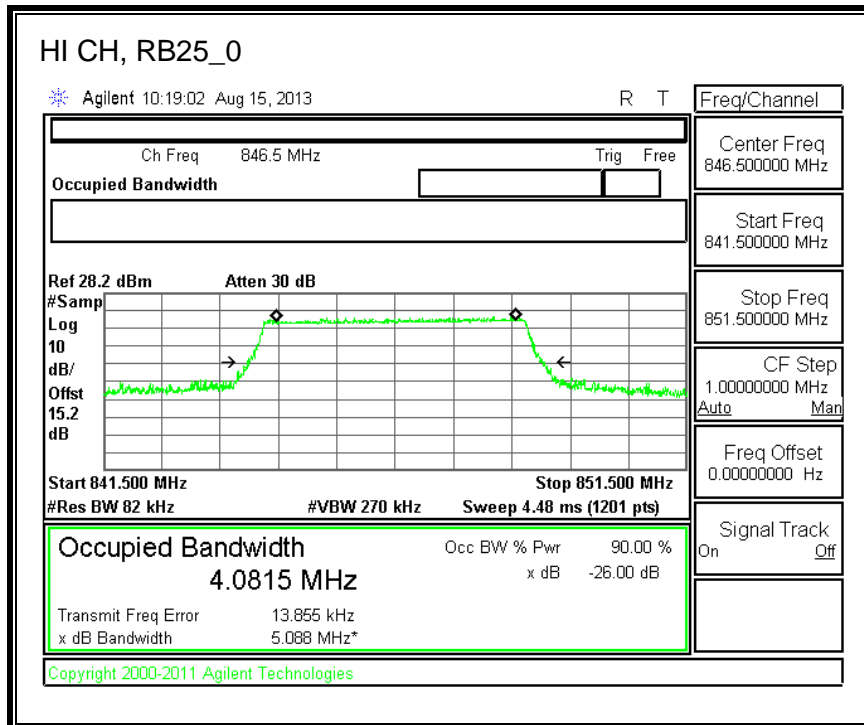
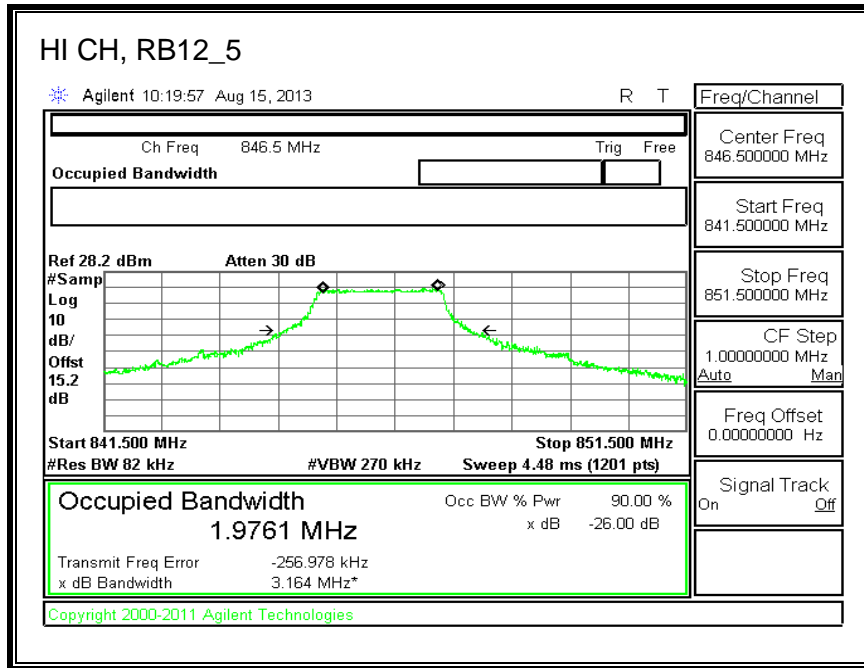




LTE 16QAM



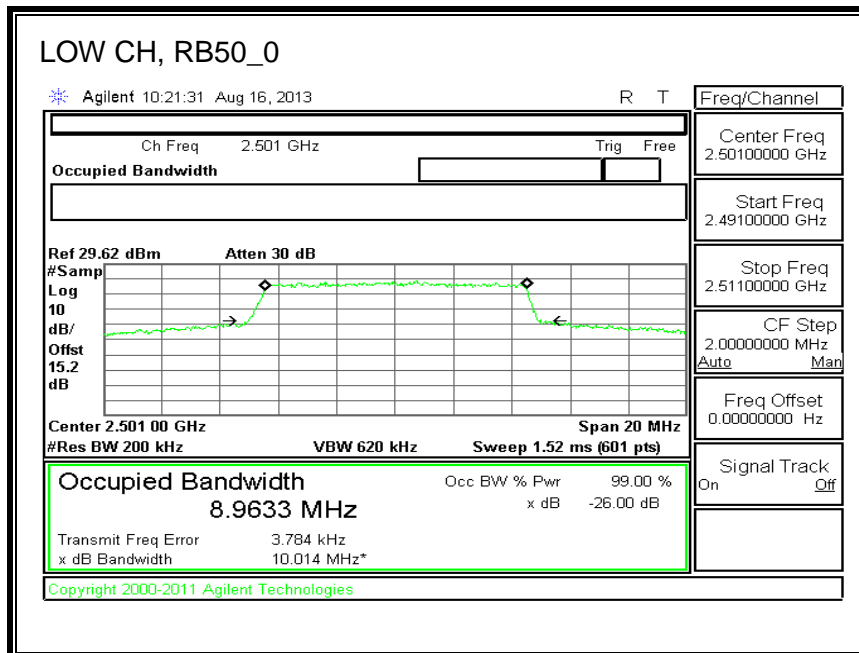
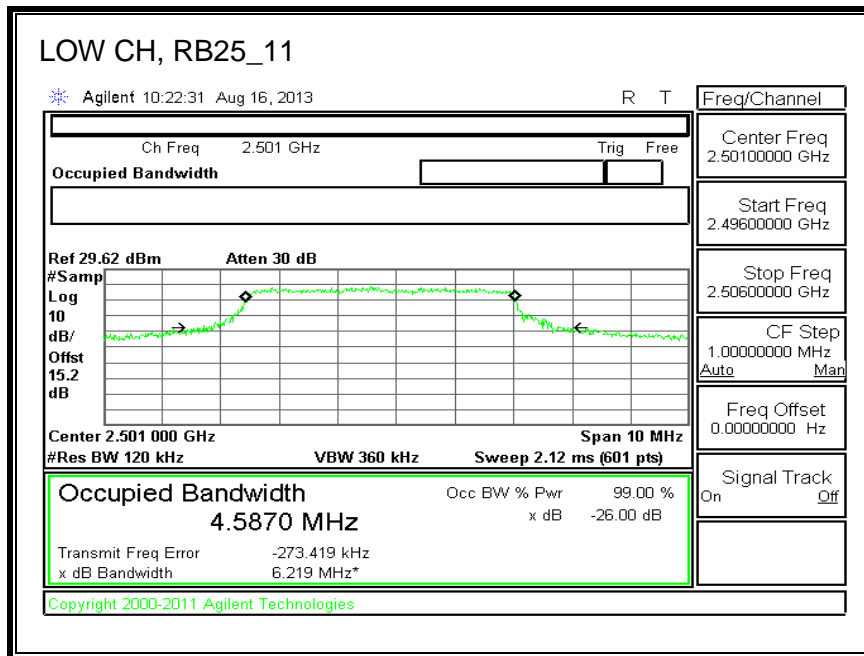


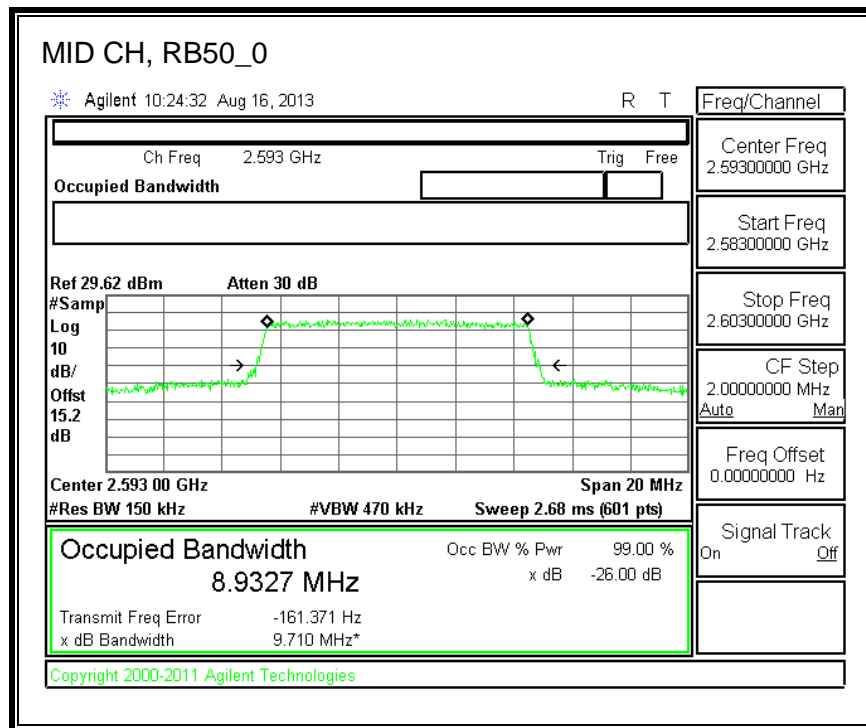
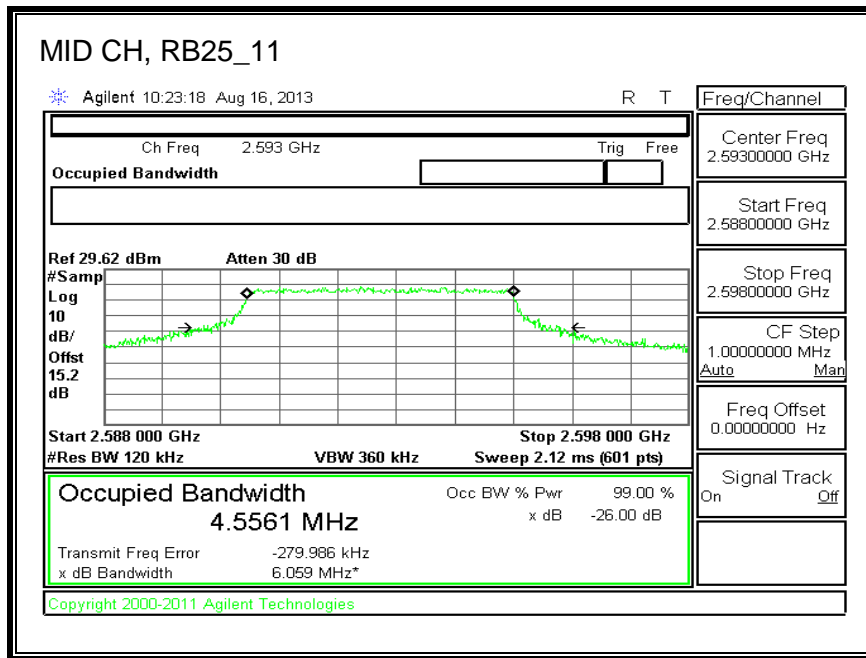


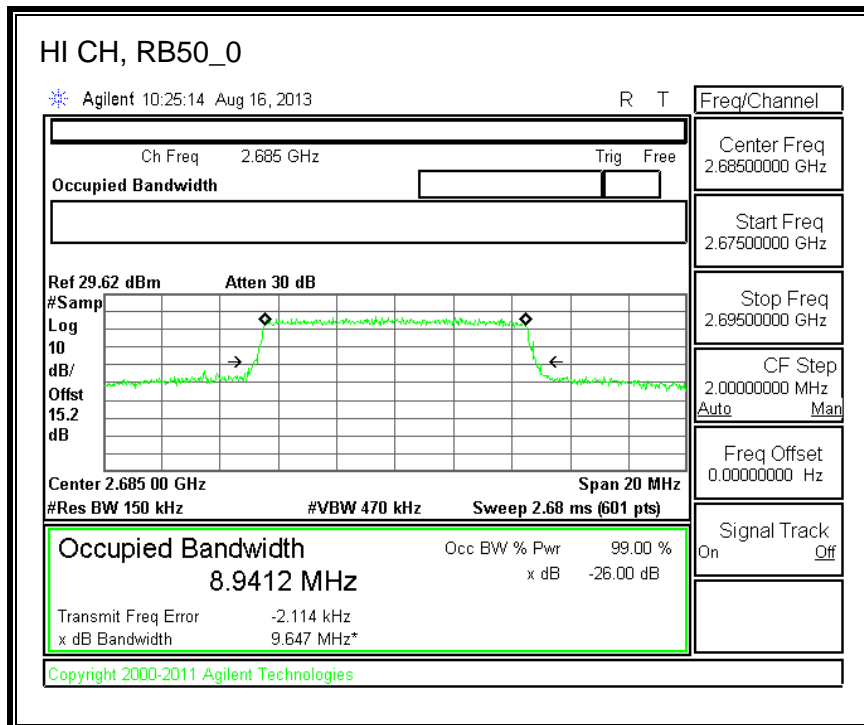
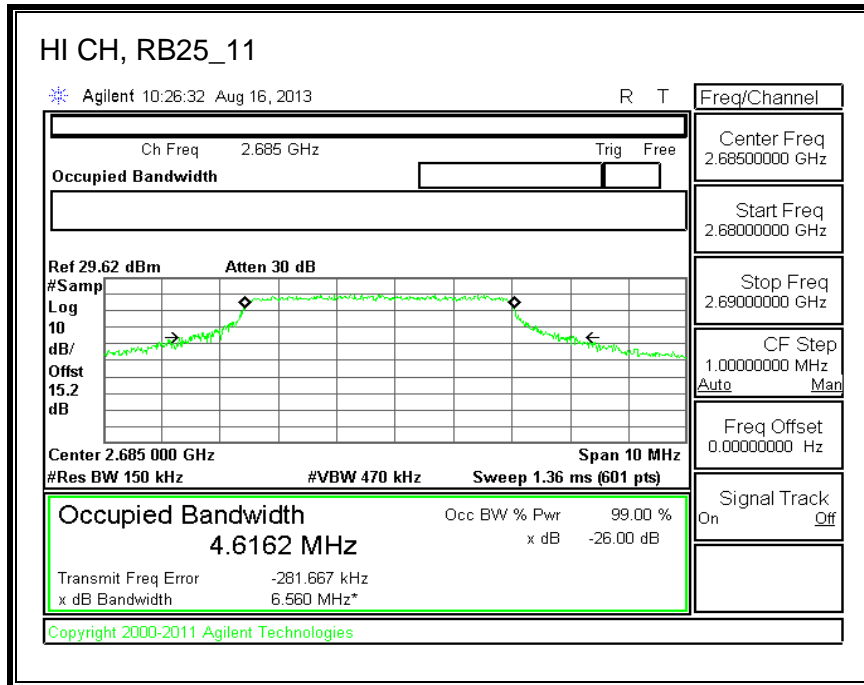
8.1.5. LTE BAND 41

Band 41 (10 MHz BANDWIDTH)

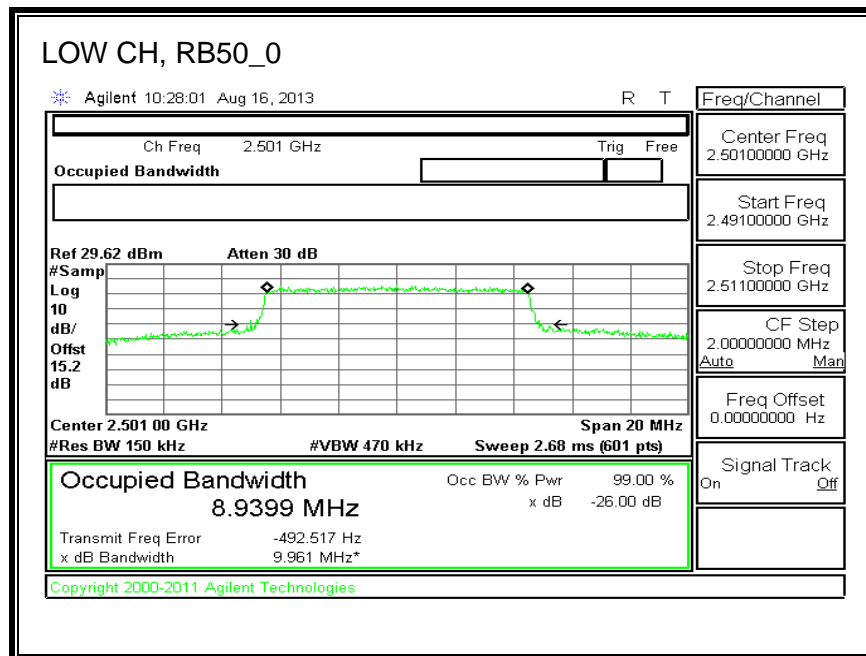
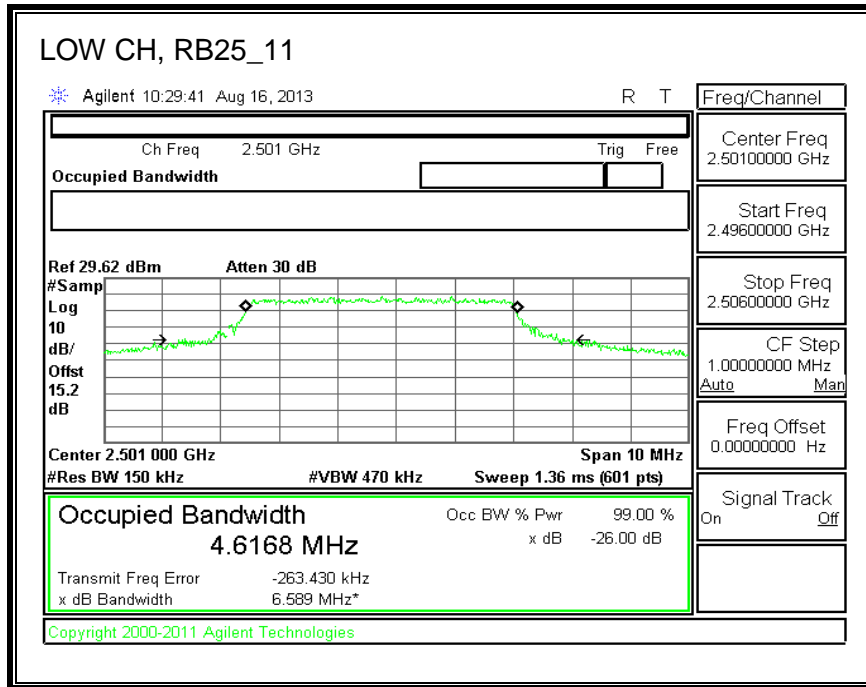
LTE QPSK

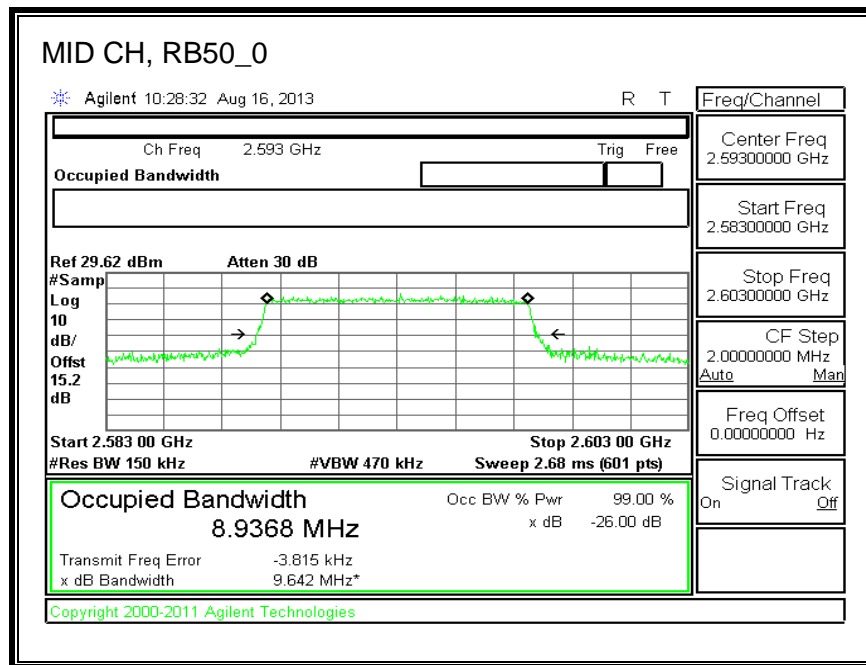
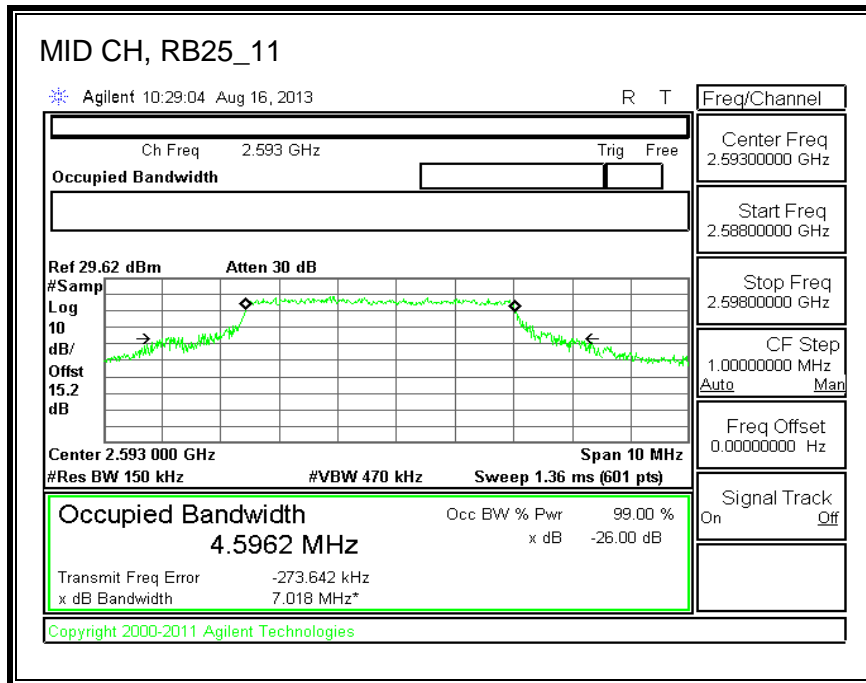


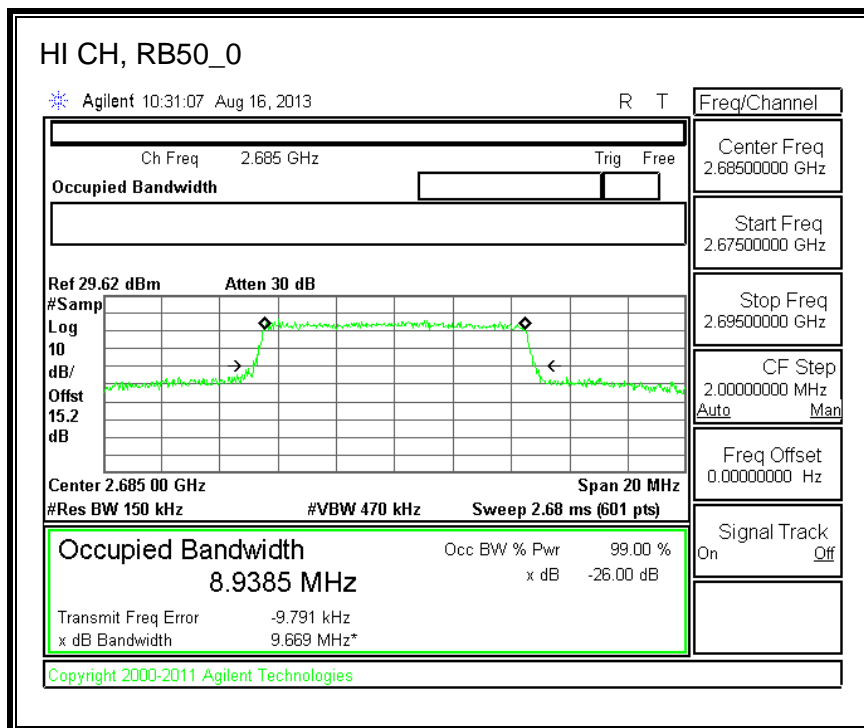
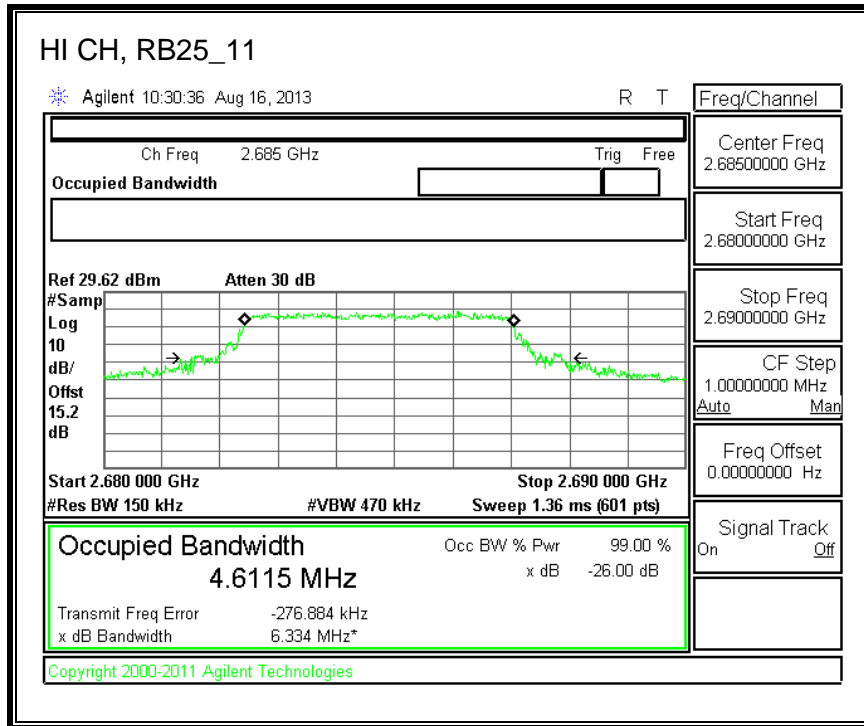




LTE 16QAM

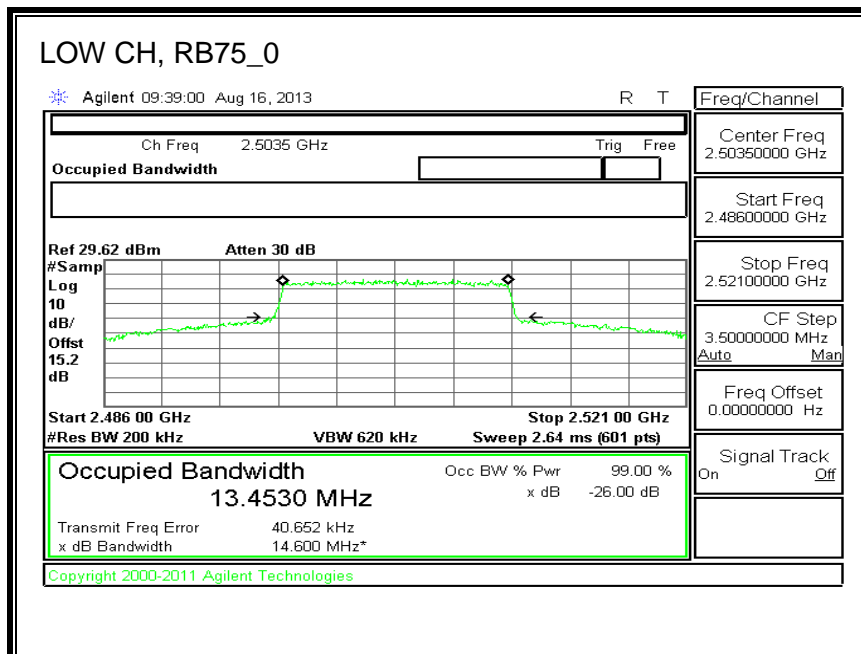
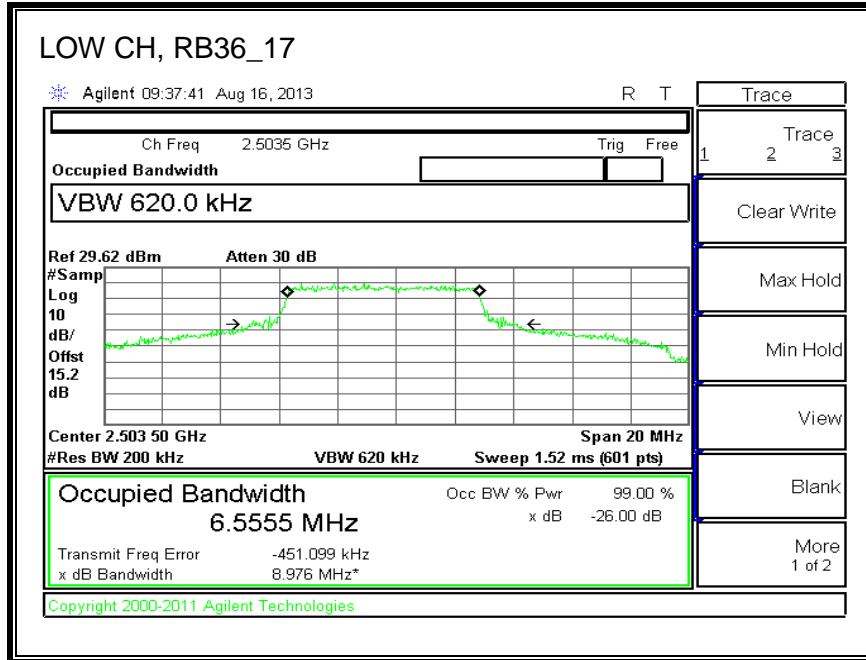


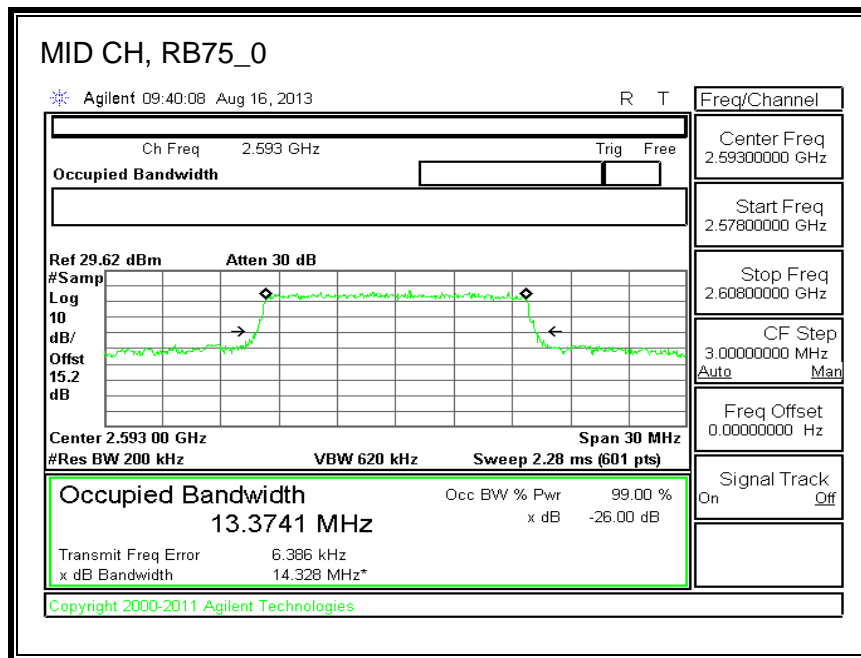
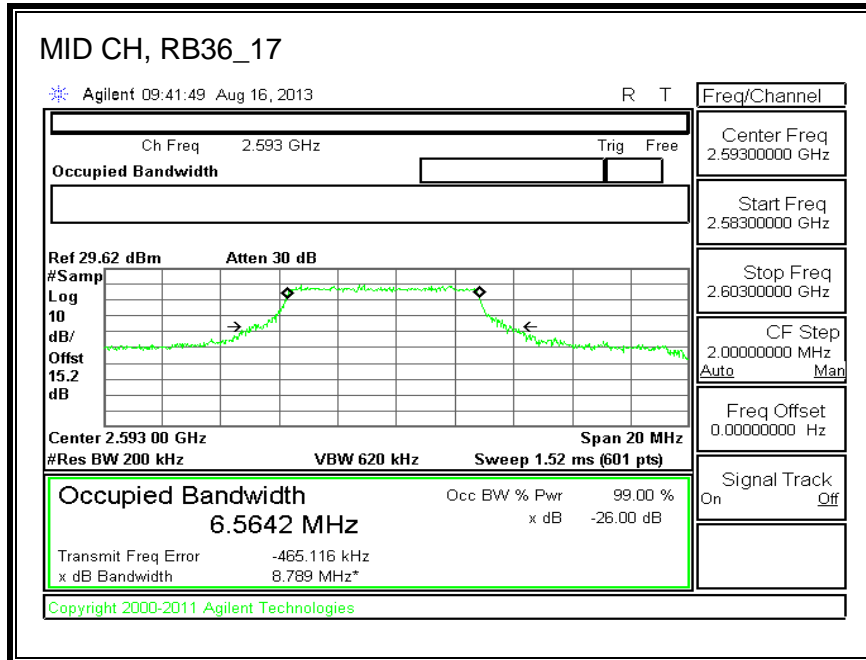


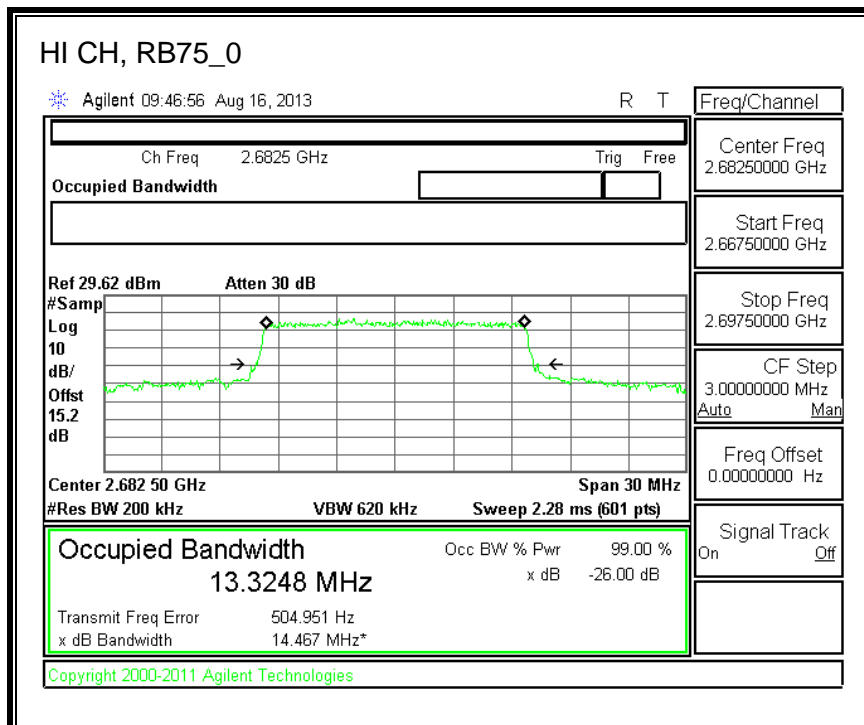
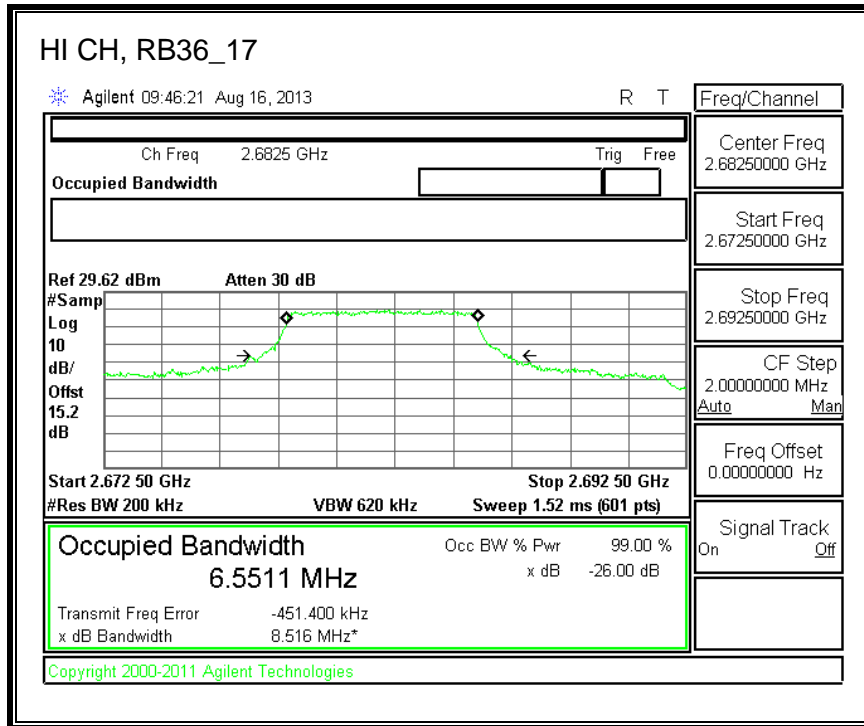


Band 41 (15.0 MHz BANDWIDTH)

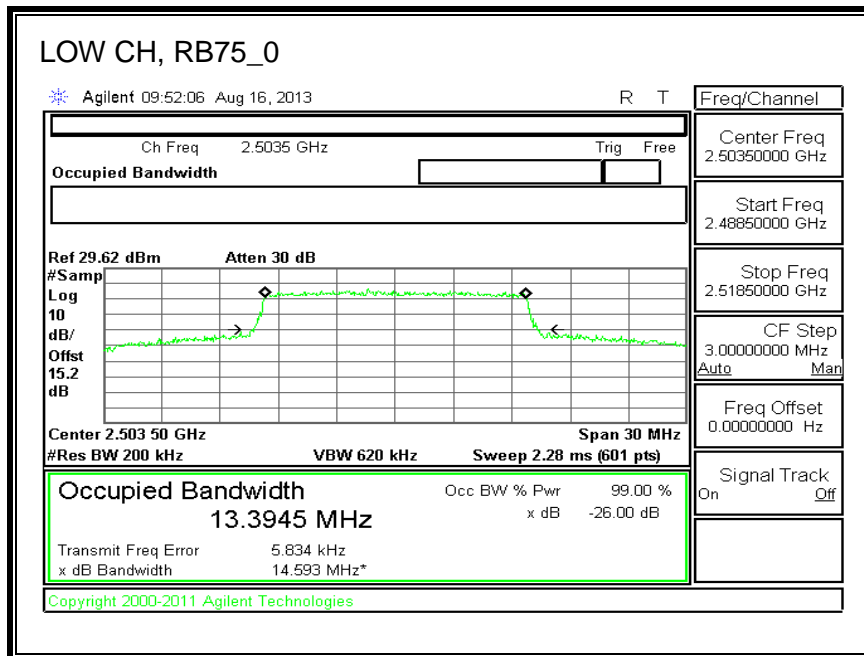
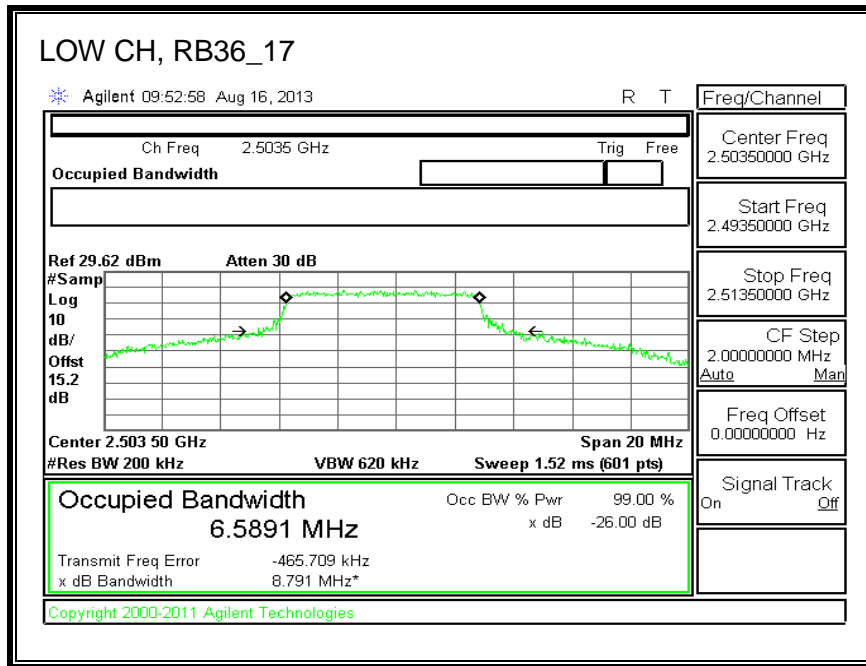
LTE QPSK

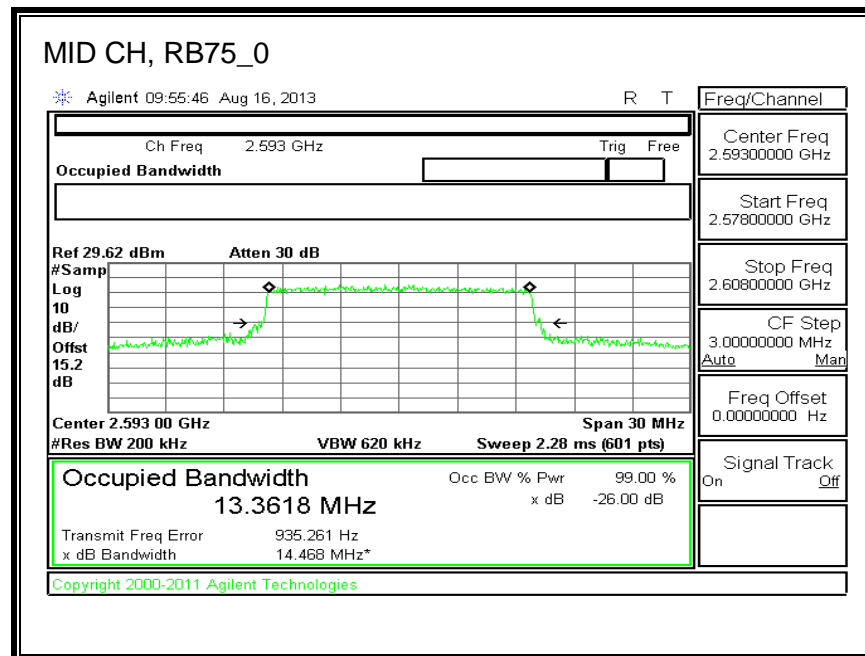
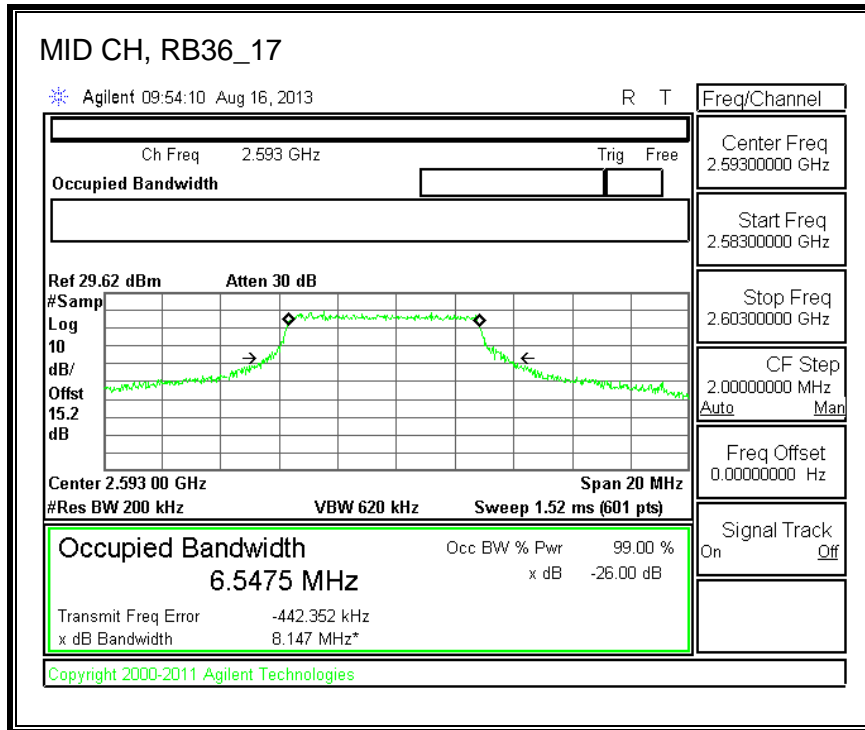


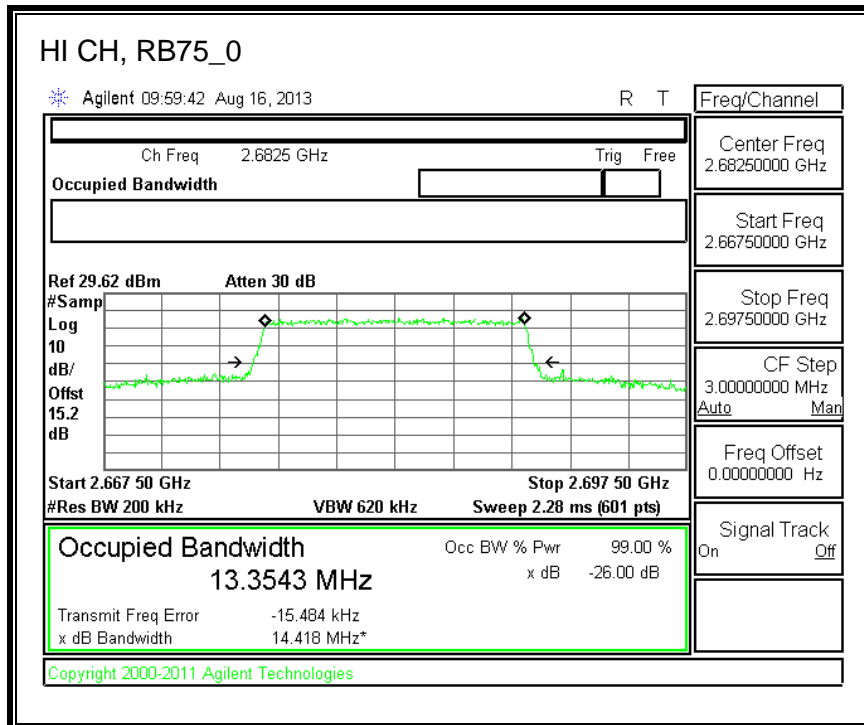
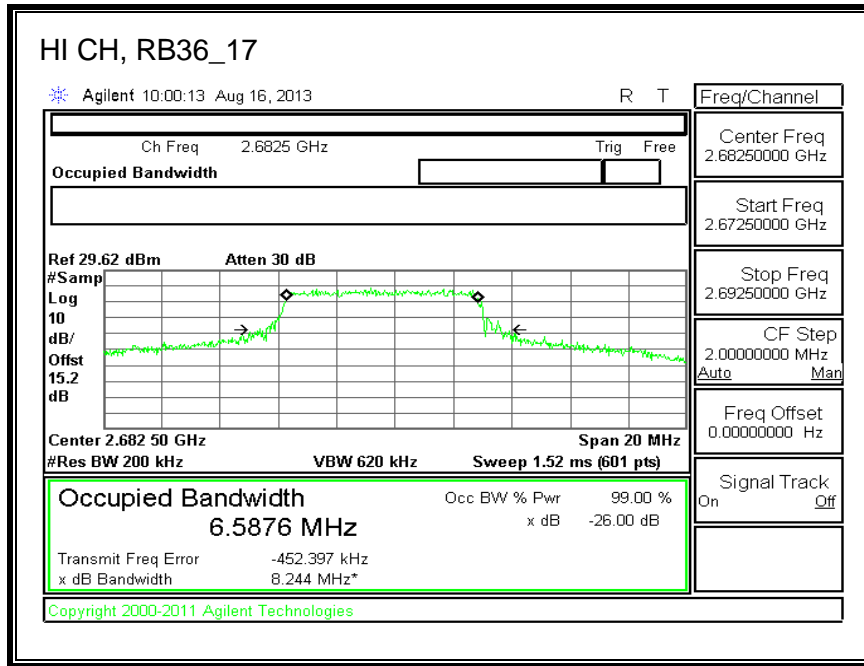




LTE 16QAM

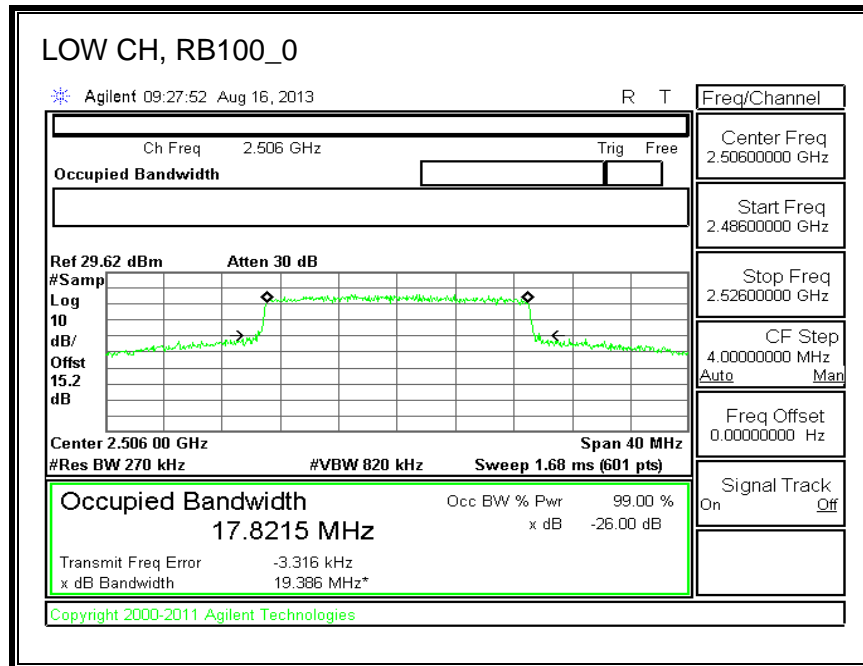
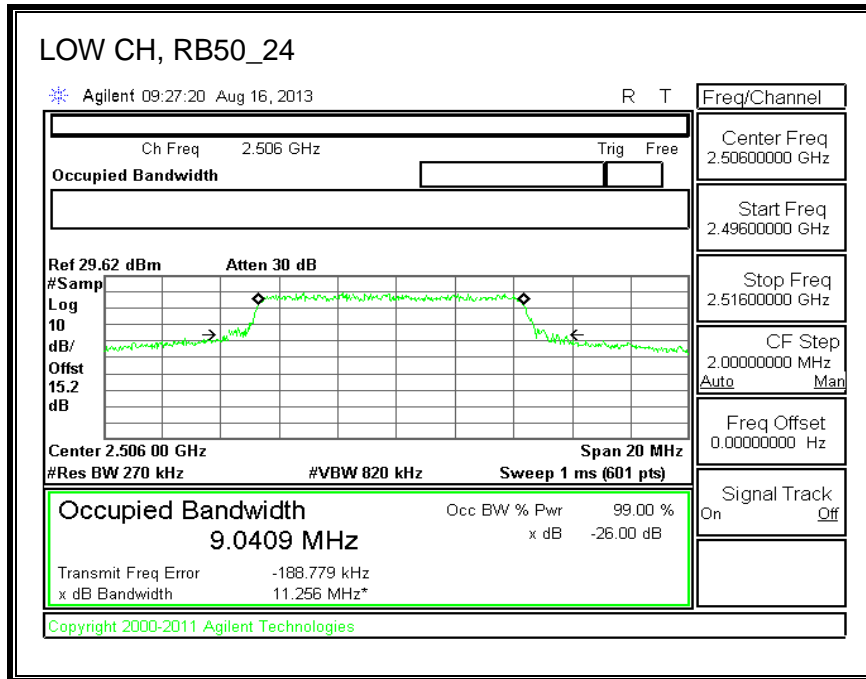


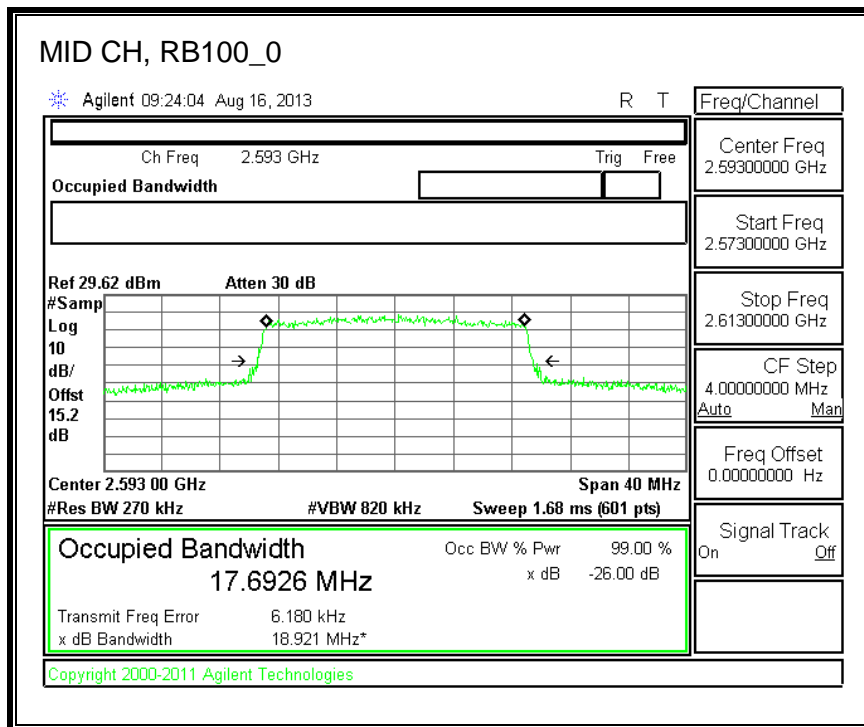
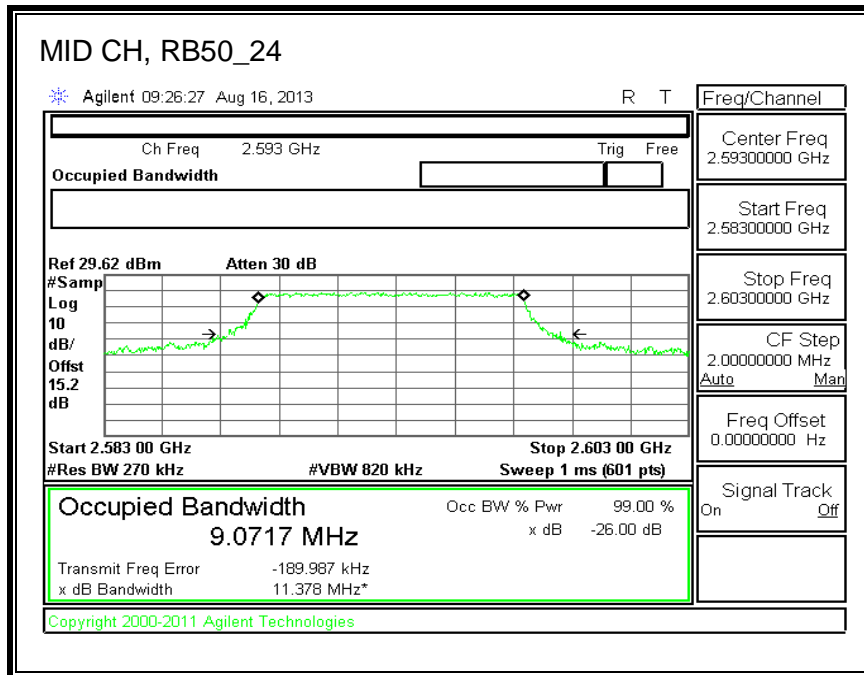


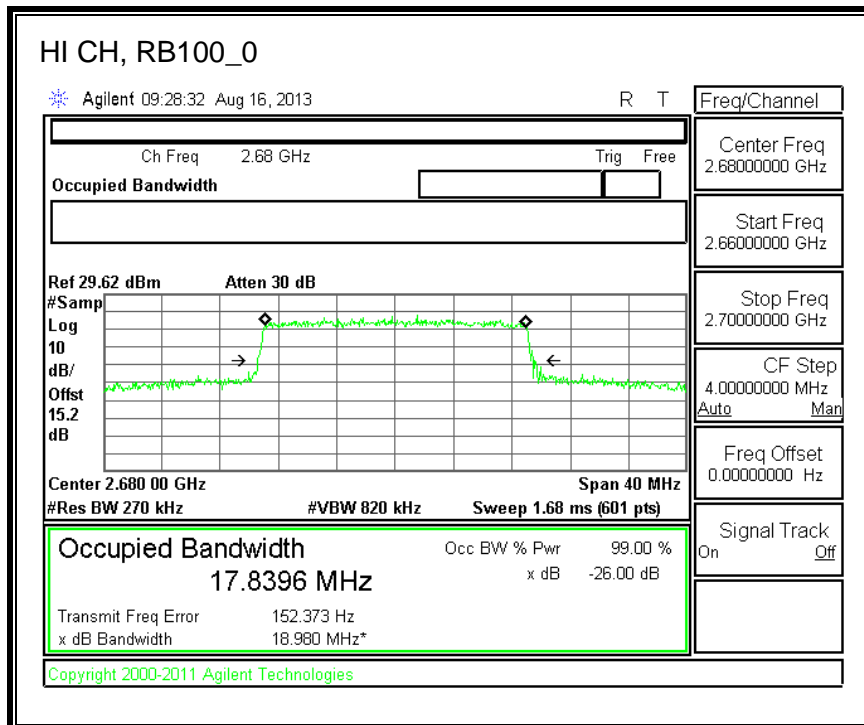
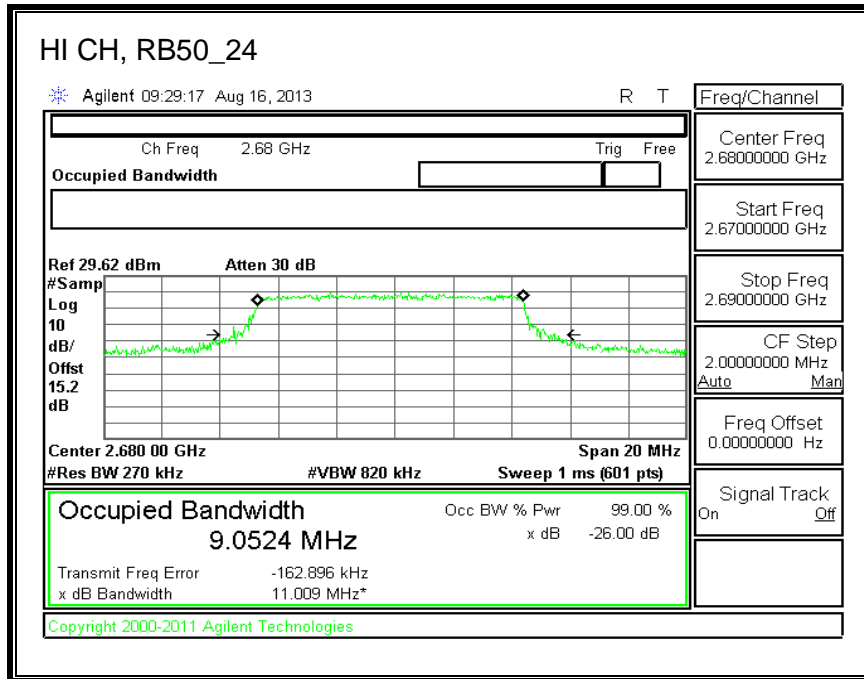


Band 41 (20.0 MHz BANDWIDTH)

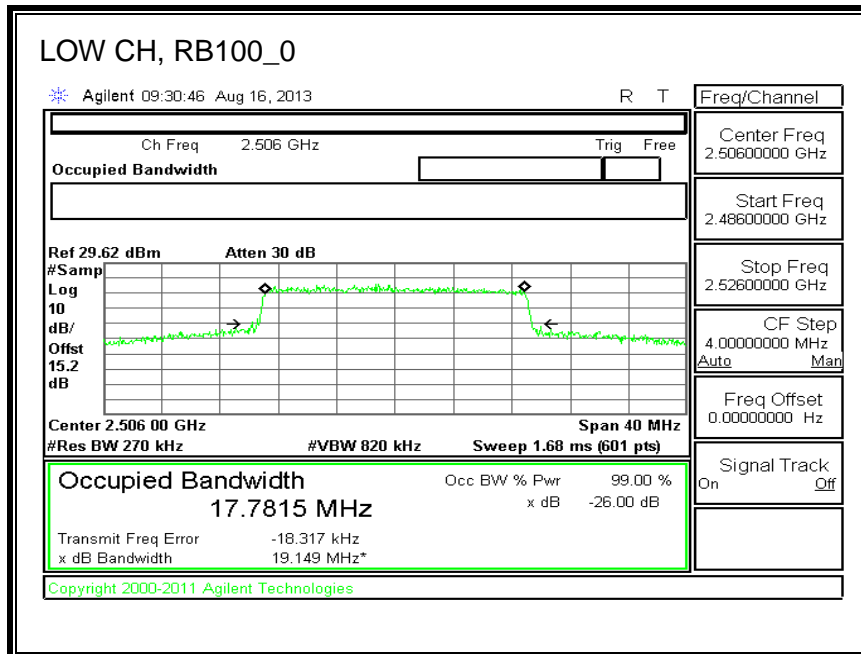
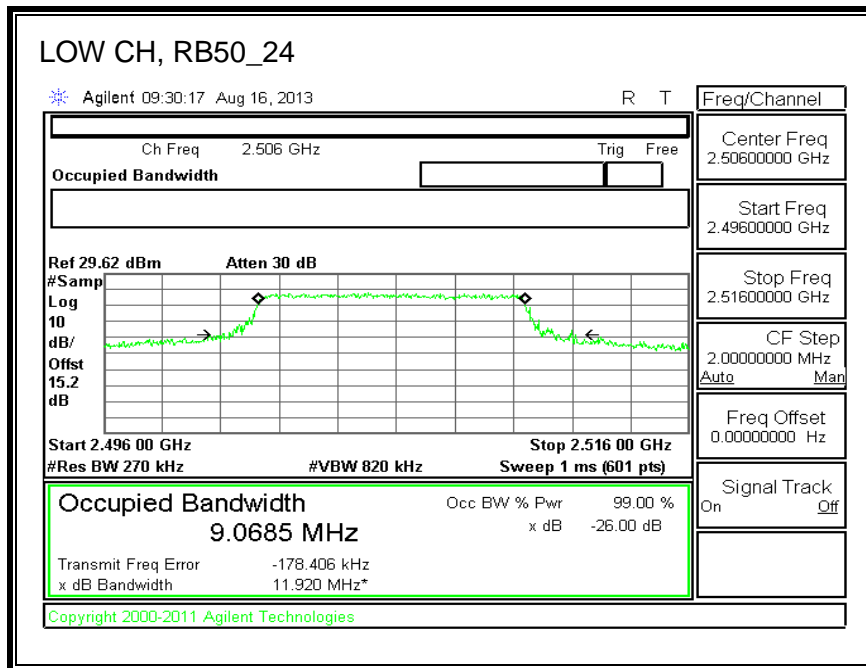
LTE QPSK

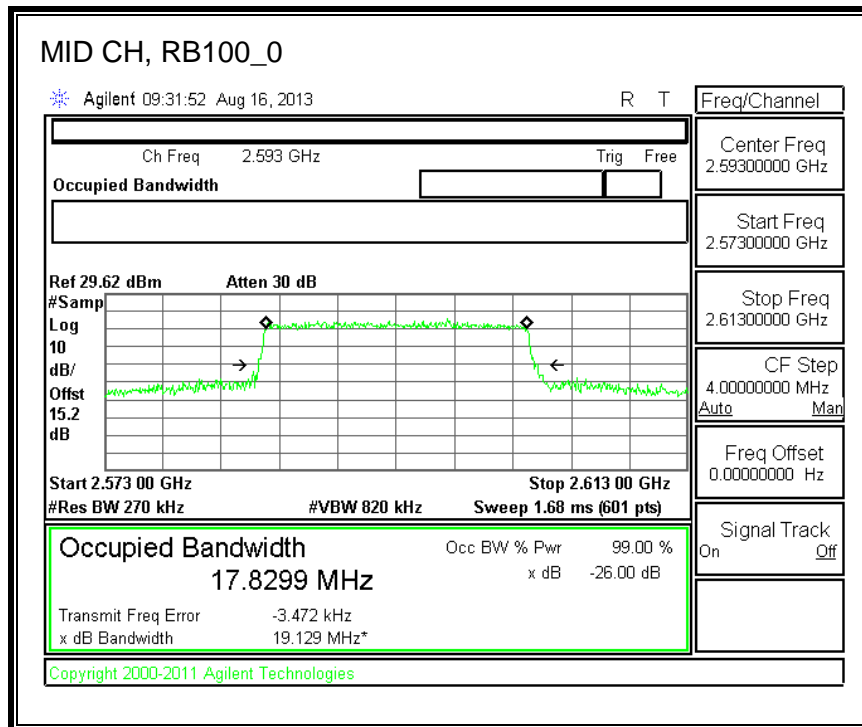
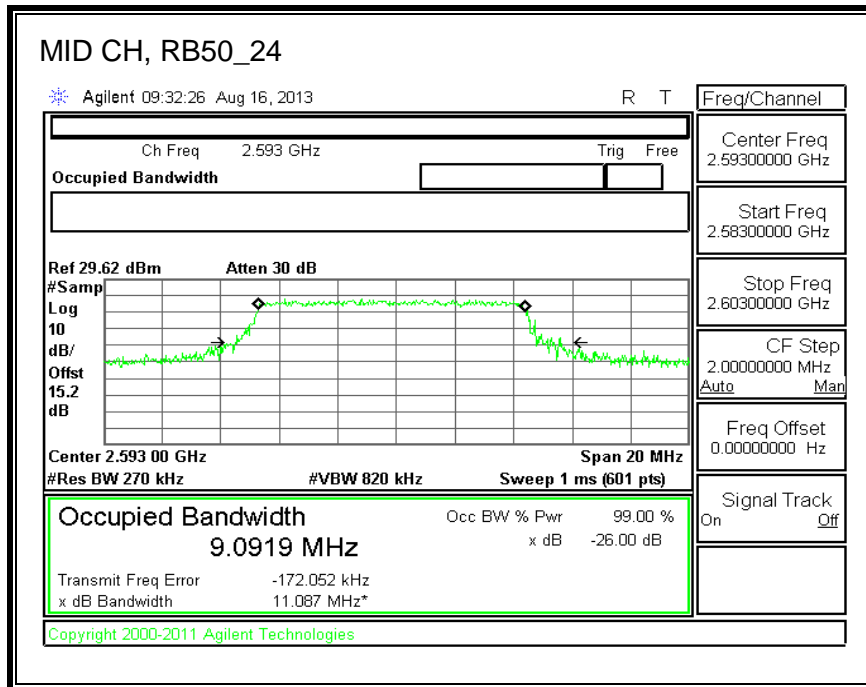


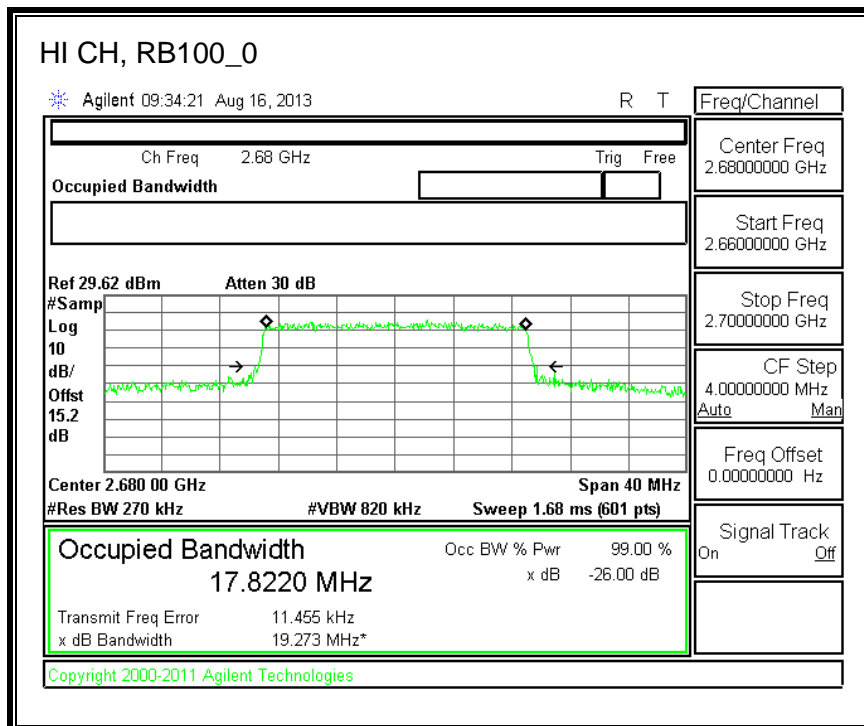
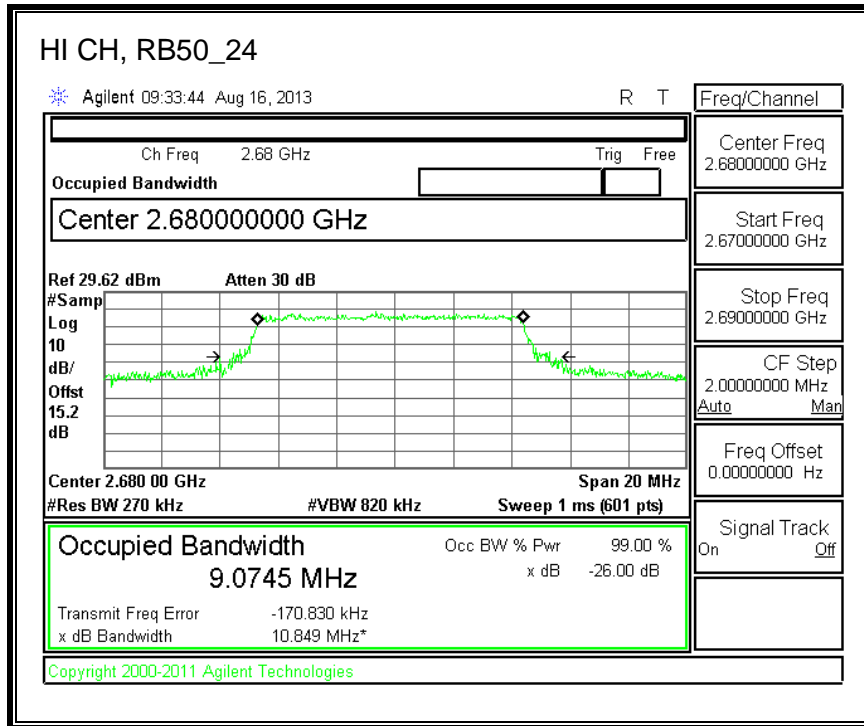




LTE 16QAM







8.2. PEAK-TO-AVERAGE RATIO

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

TEST Procedure

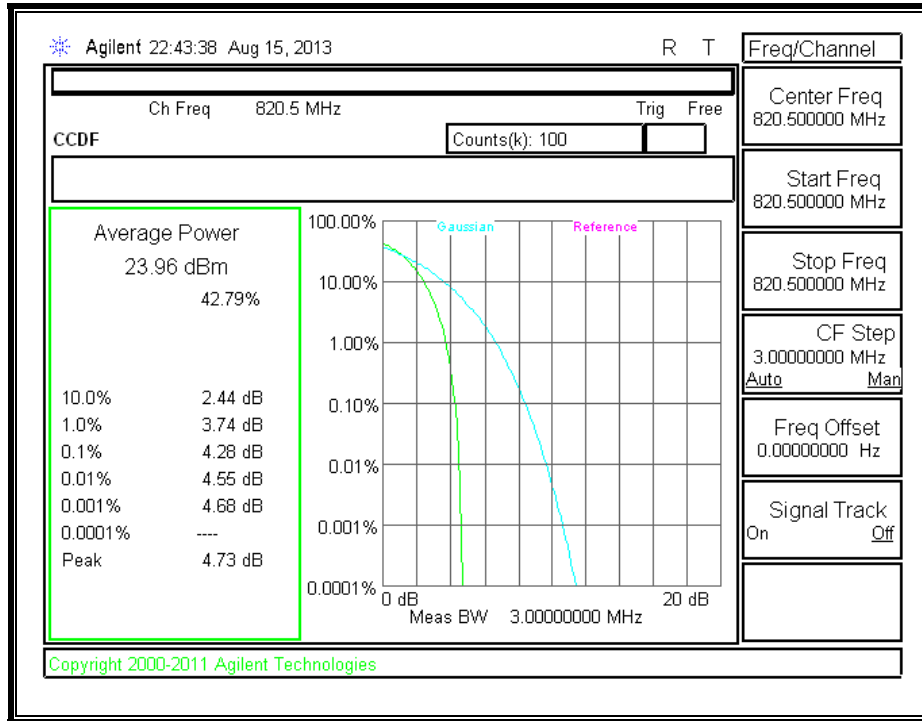
Reference to KDB 971168 D01 v02r01

MODES TESTED

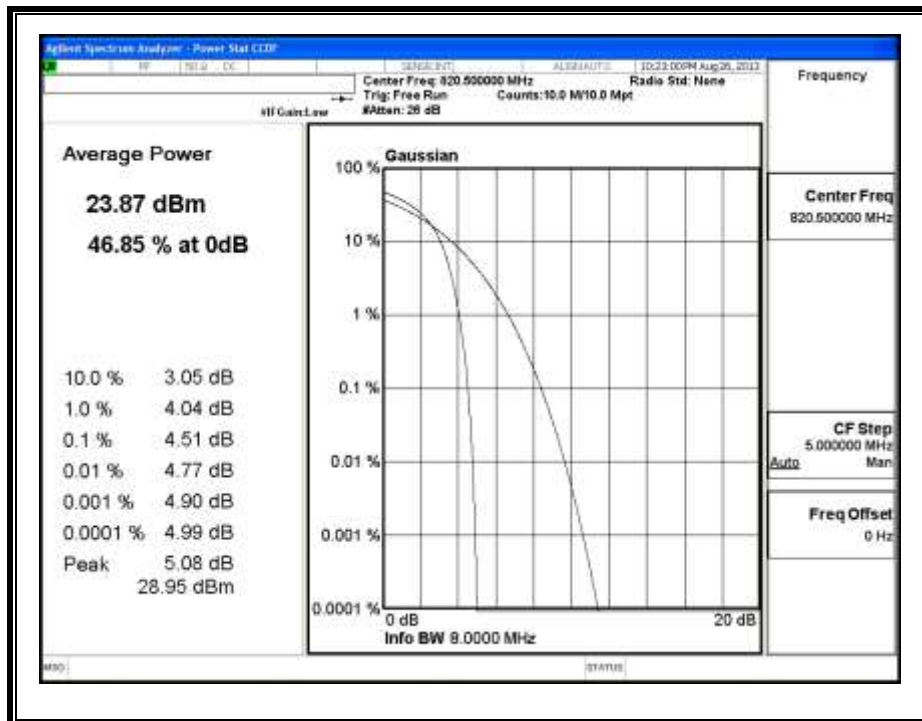
- CDMA2000 1xRTT BC10, BC0, BC1
- CDMA2000 1xEVDO BC10, BC0, BC1
- LTE Band 25
- LTE Band 26
- LTE Band 41

RESULTS

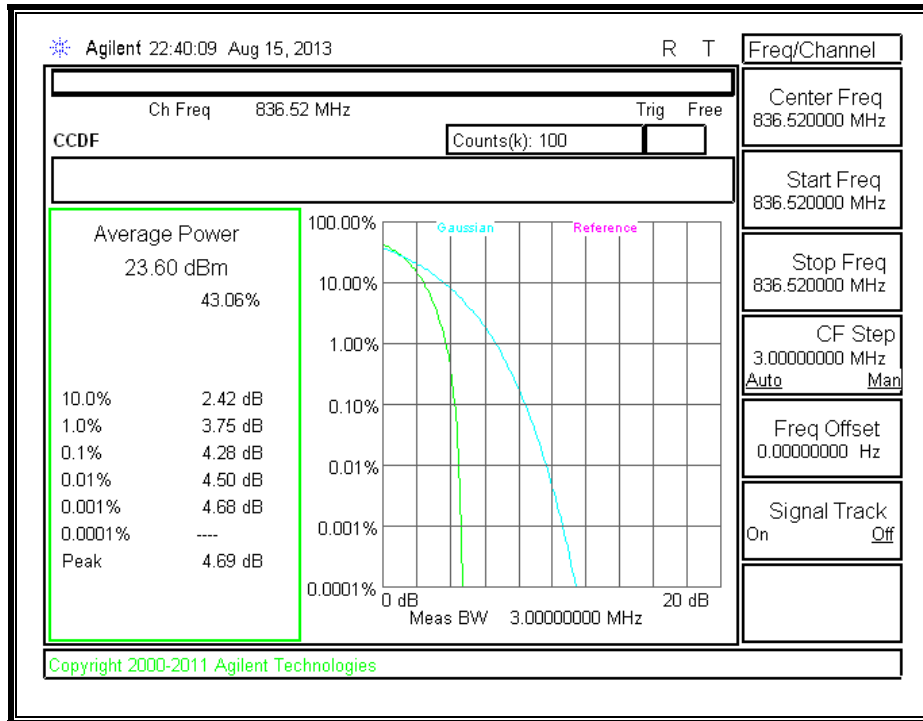
BC10, 1xRTT



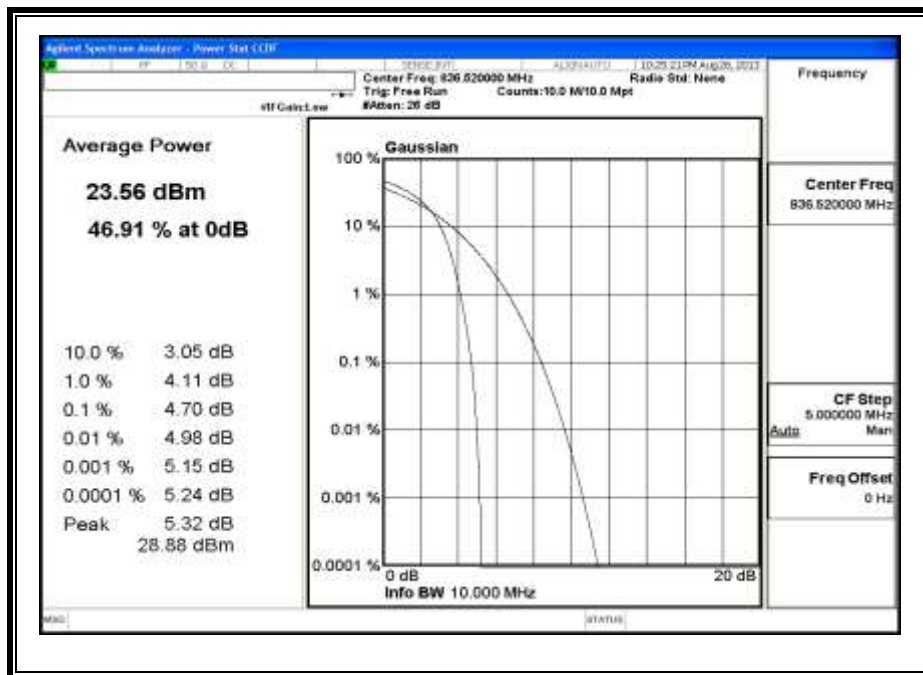
BC10, EVDO



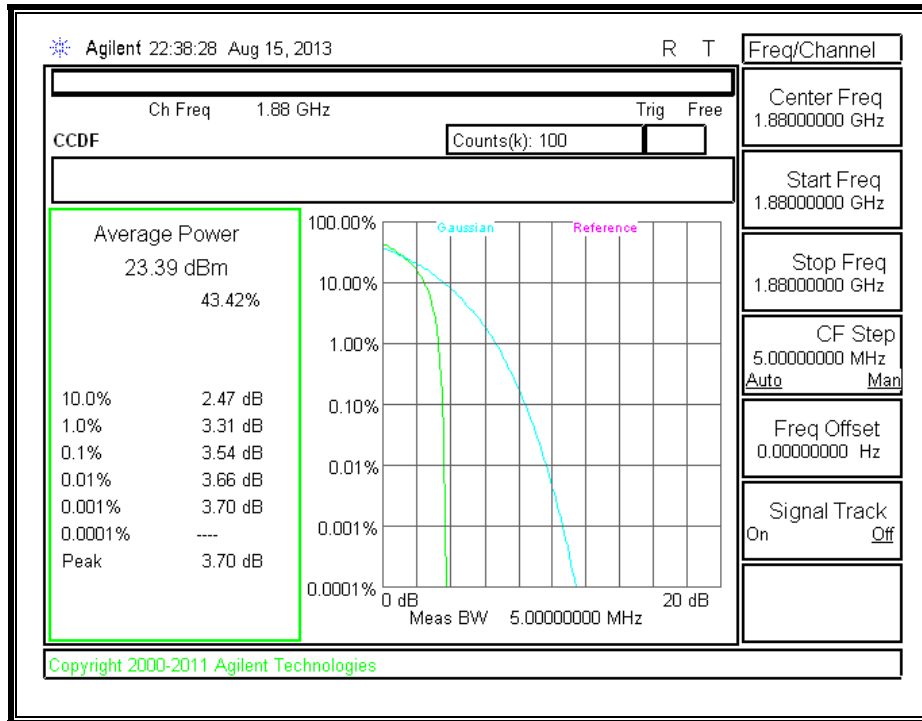
BC0, 1xRTT



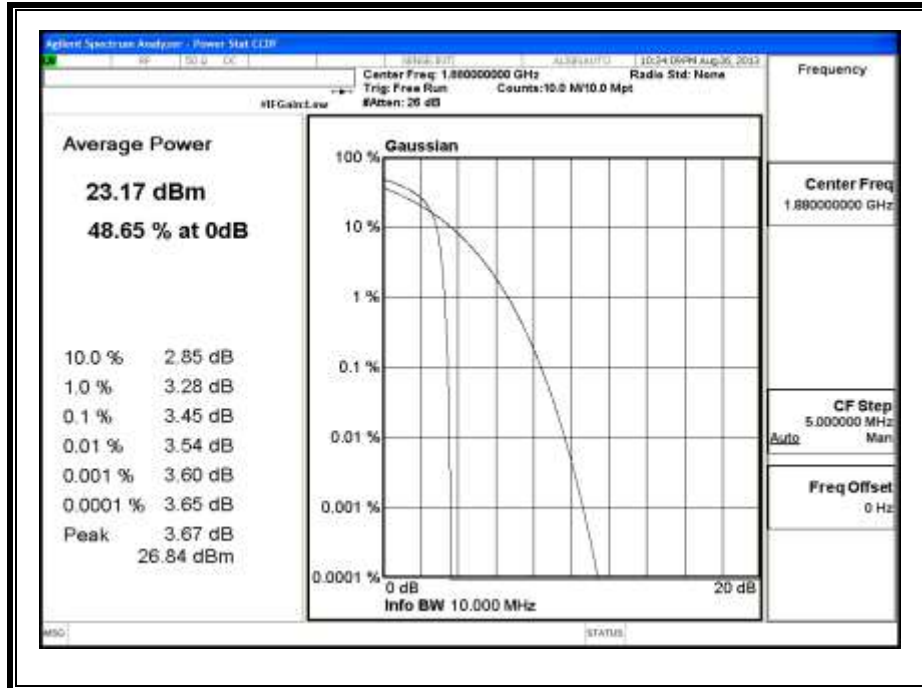
BC0, EVDO



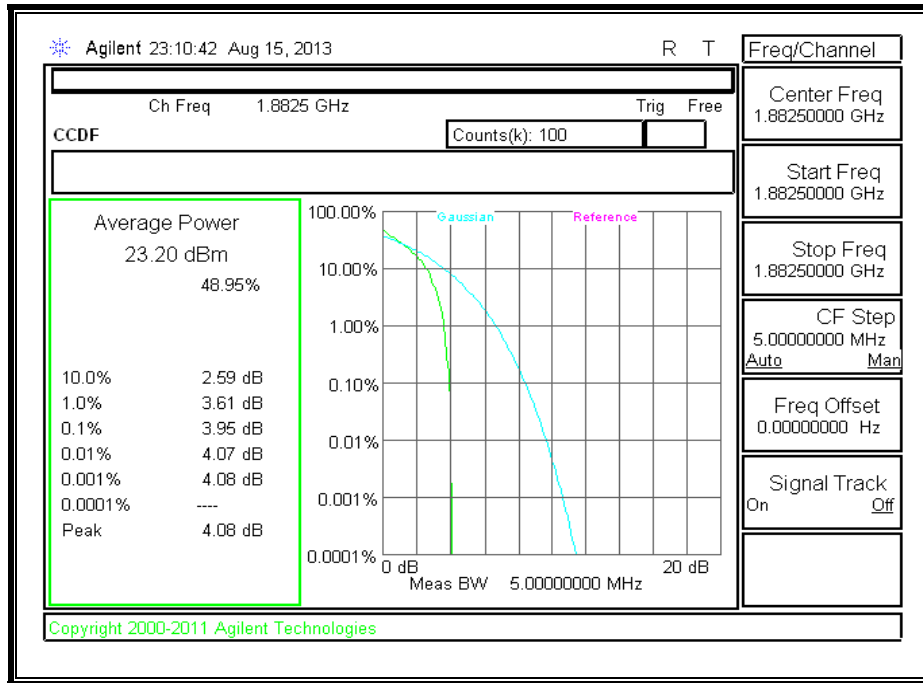
BC1, 1xRTT



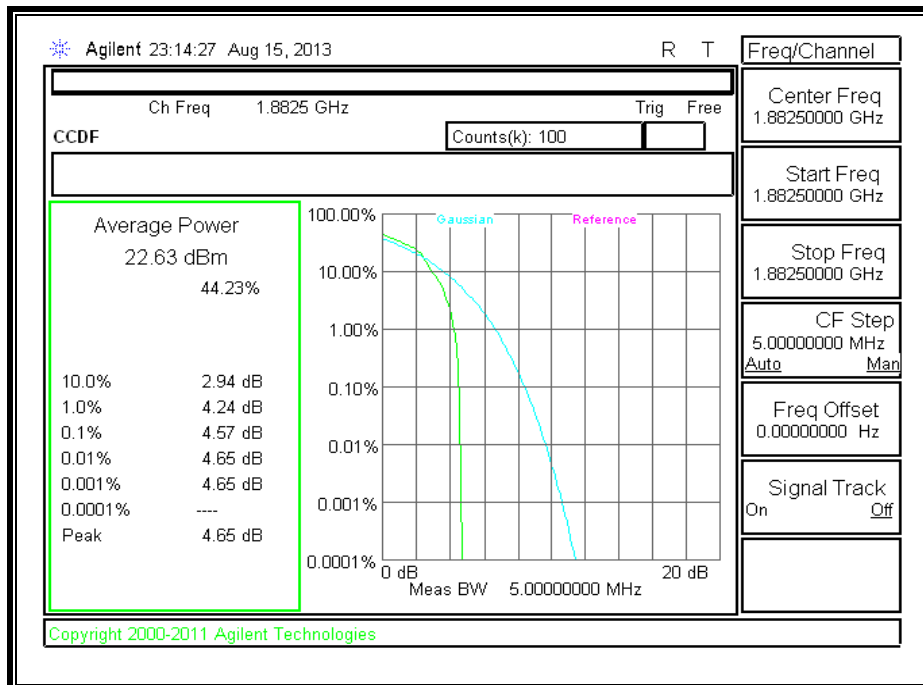
BC1, EVD0



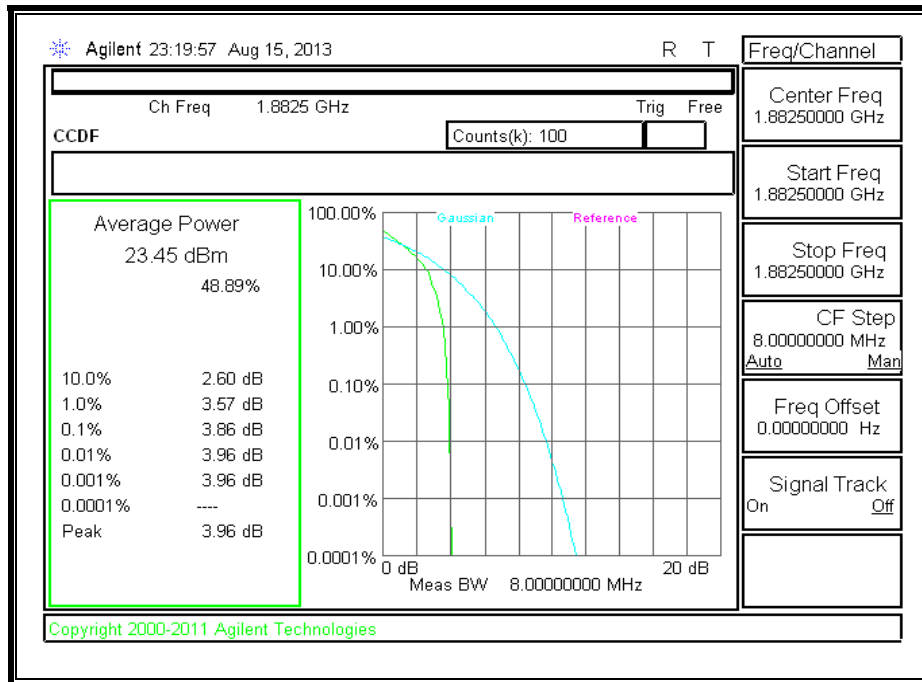
LTE Band 25, 3MHz QPSK



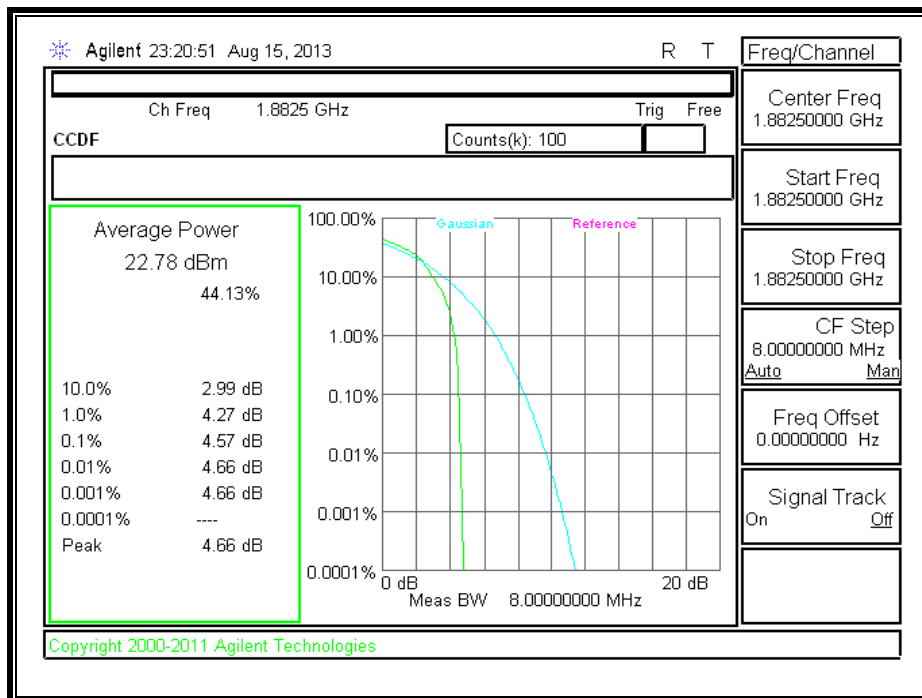
LTE Band 25, 3MHz 16QAM



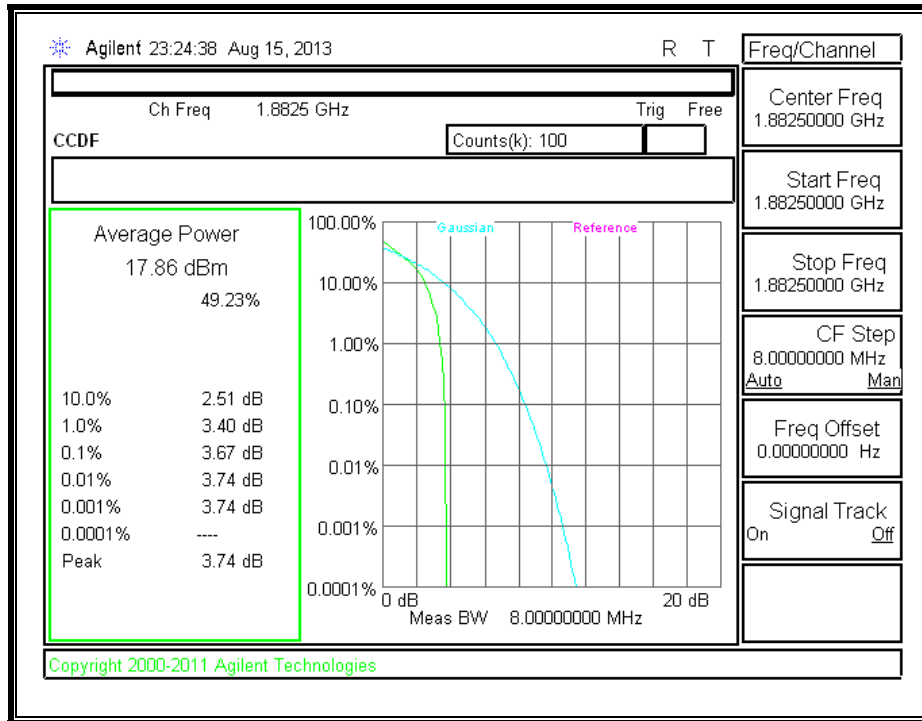
LTE Band 25, 5MHz QPSK



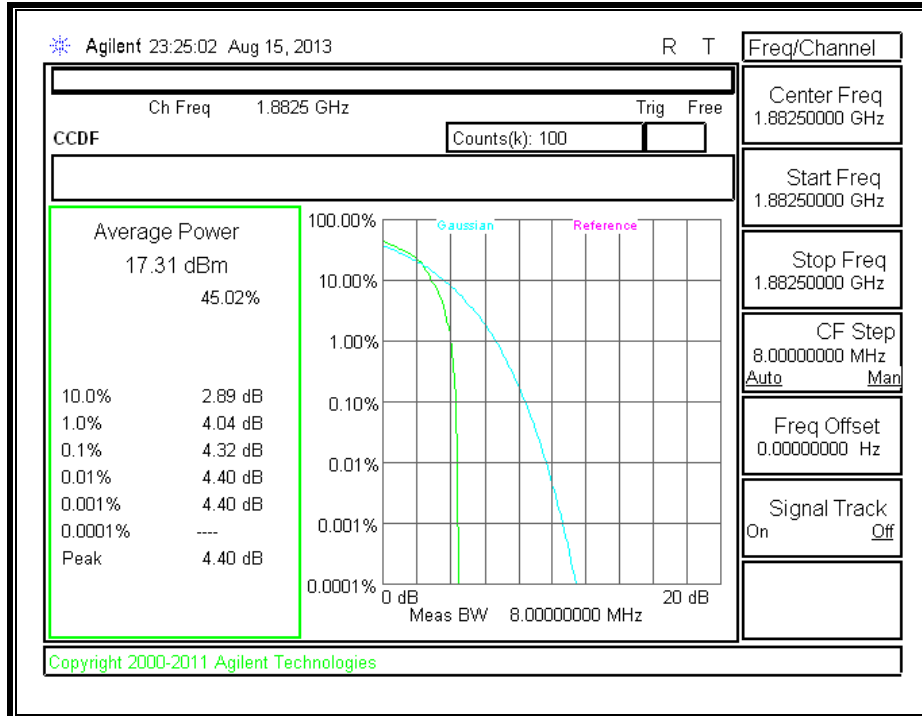
LTE Band 25, 5MHz 16QAM



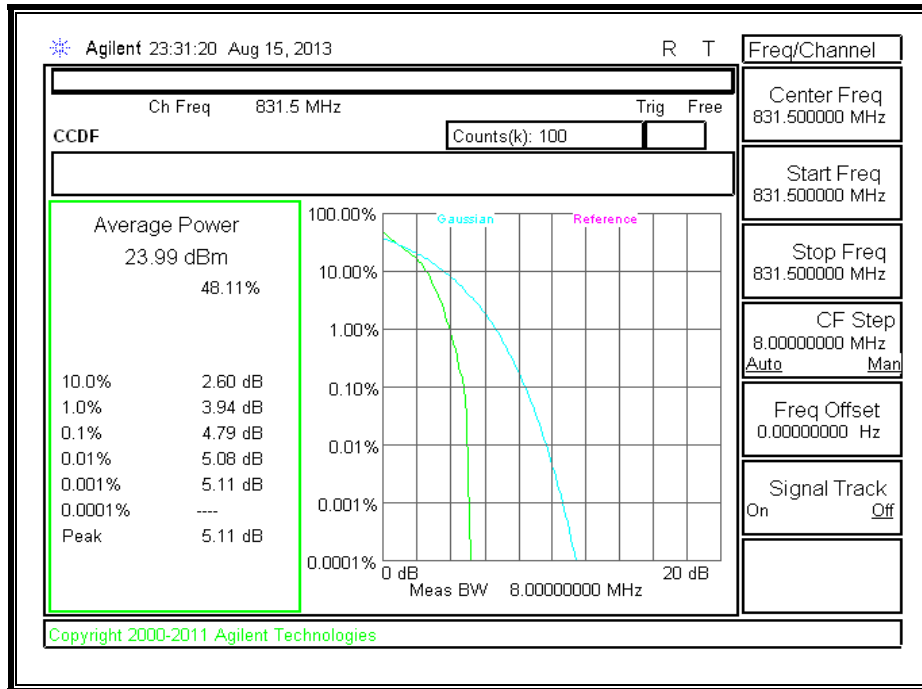
LTE Band 25, 10MHz QPSK



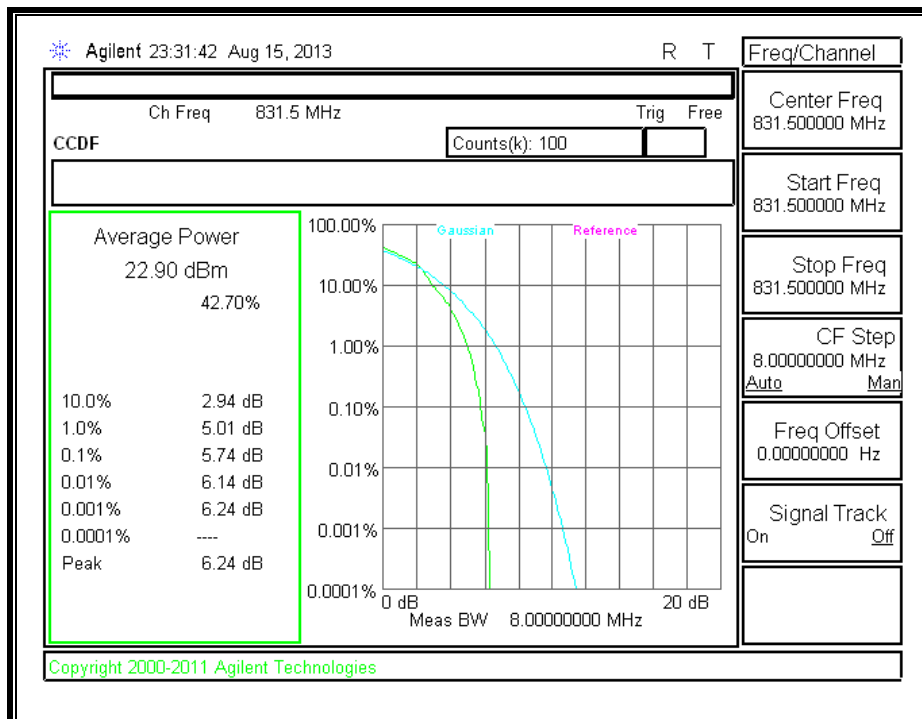
LTE Band 25, 10MHz 16QAM



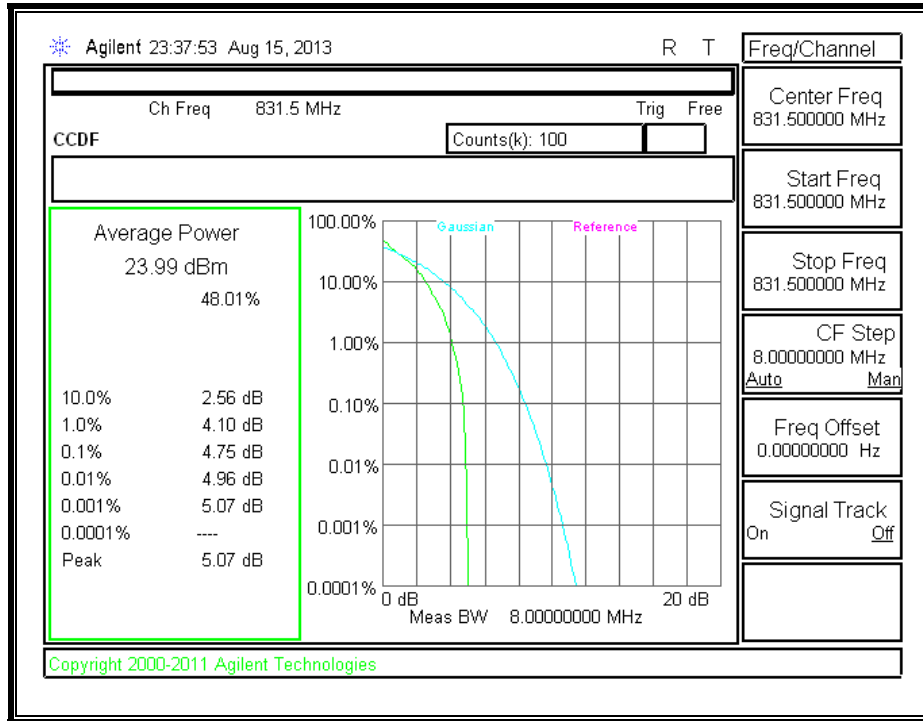
LTE Band 26, 1.4MHz QPSK



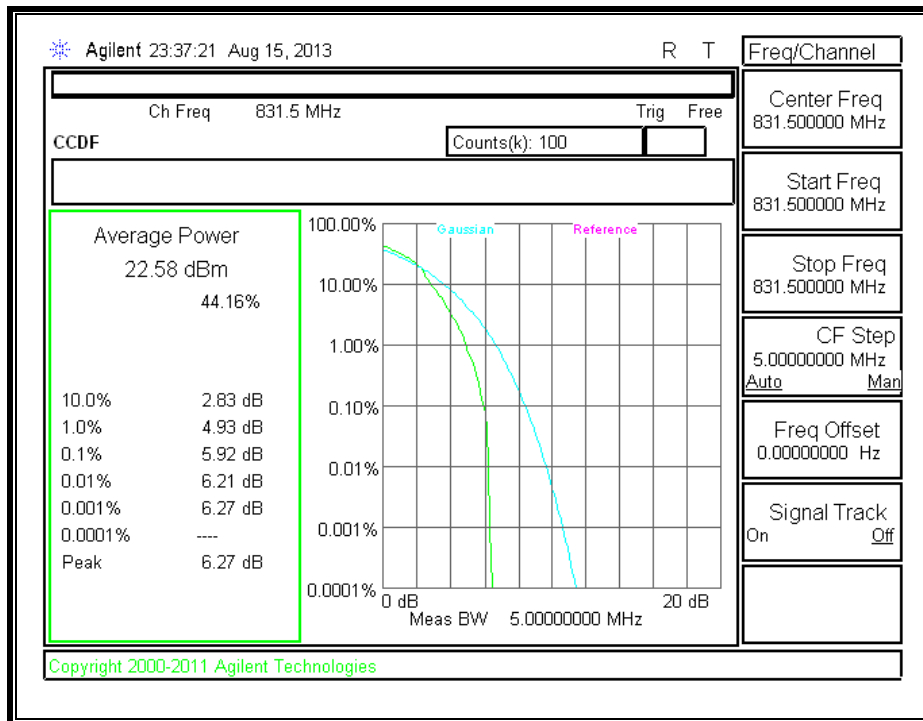
LTE Band 26, 1.4MHz 16QAM



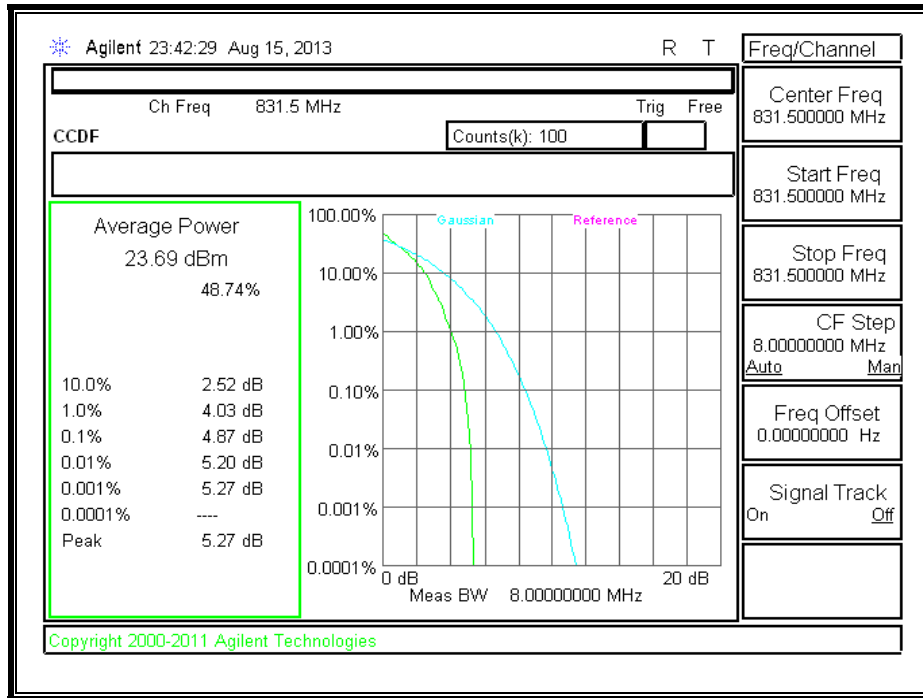
LTE Band 26, 3.0MHz QPSK



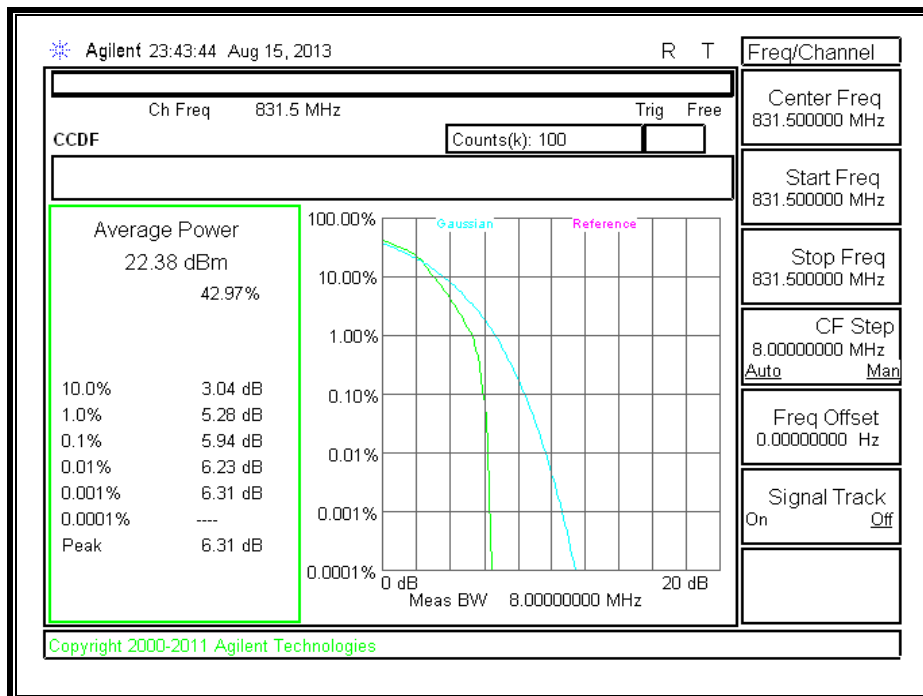
LTE Band 26, 3.0MHz 16QAM



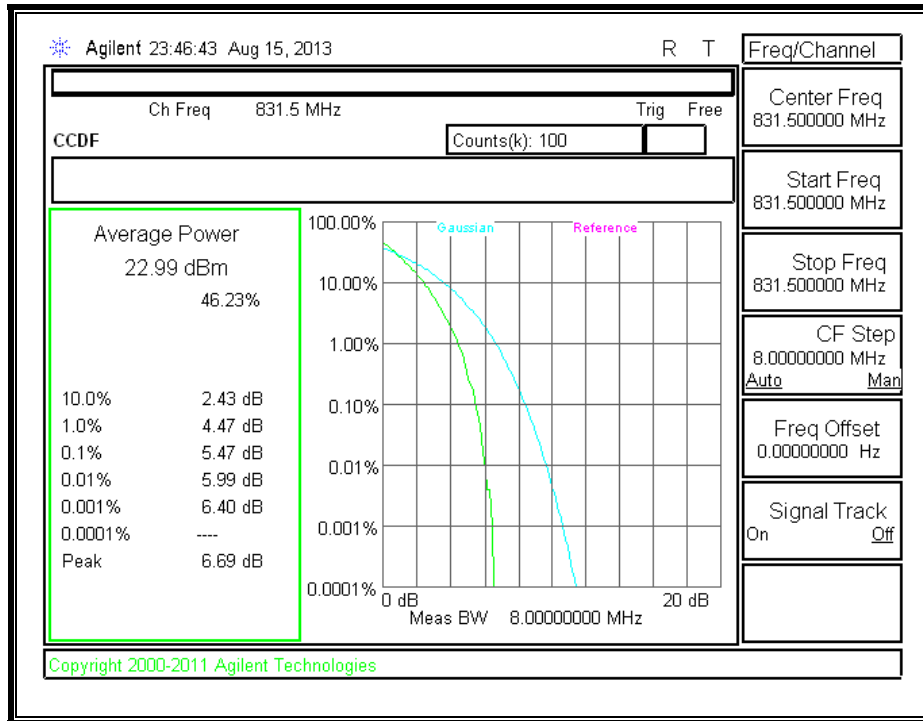
LTE Band 26, 5.0MHz QPSK



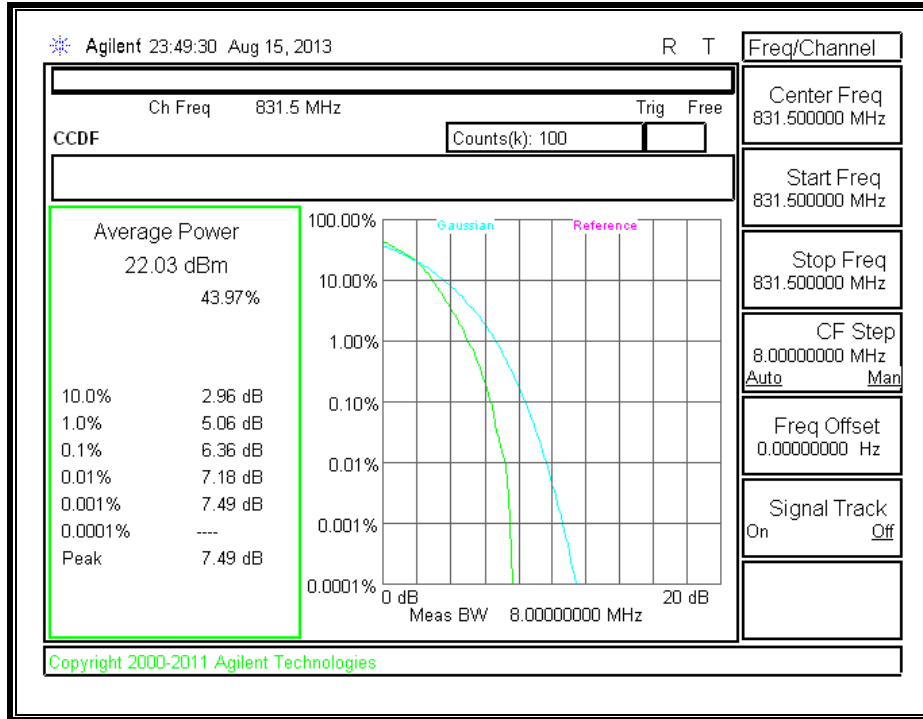
LTE Band 26, 5.0MHz 16QAM



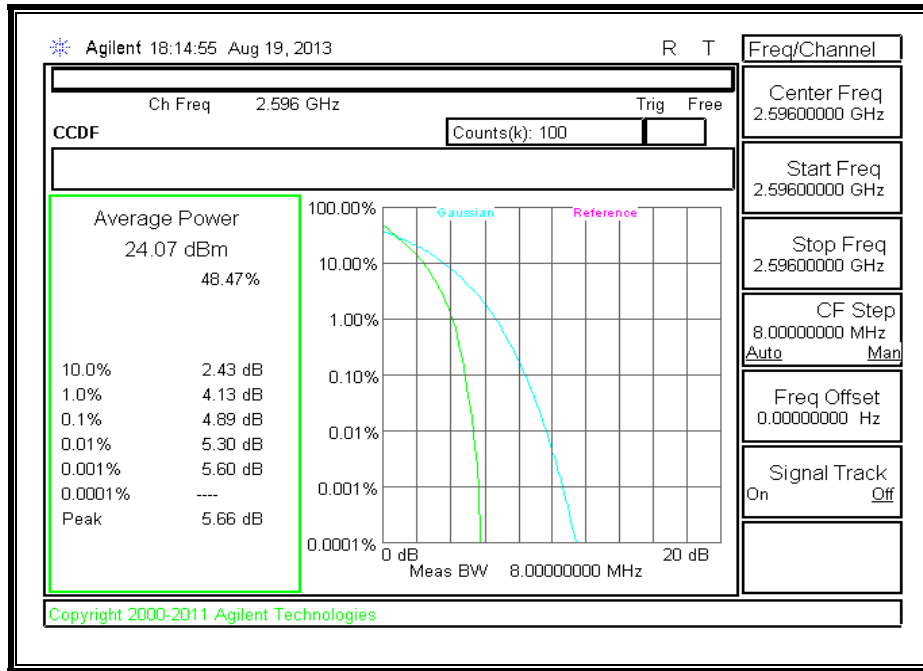
LTE Band 26, 10.0MHz QPSK



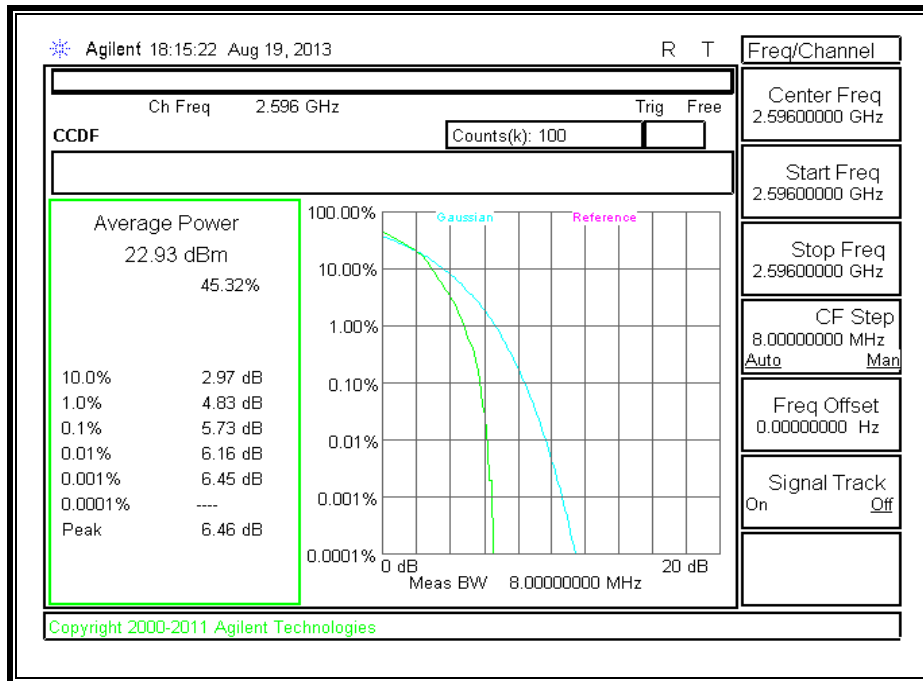
LTE Band 26, 10.0MHz 16QAM



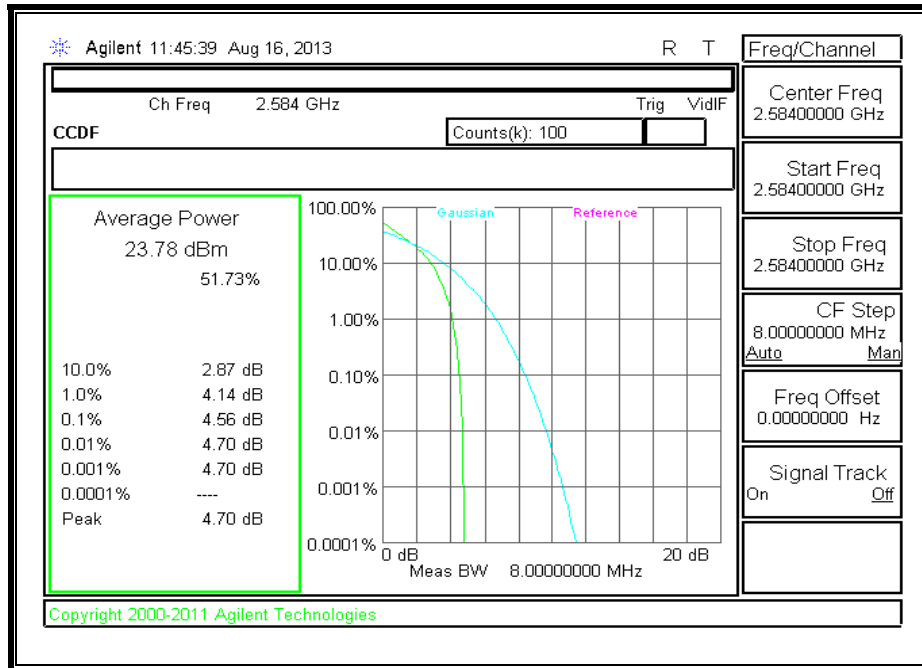
LTE Band 41, 10MHz QPSK



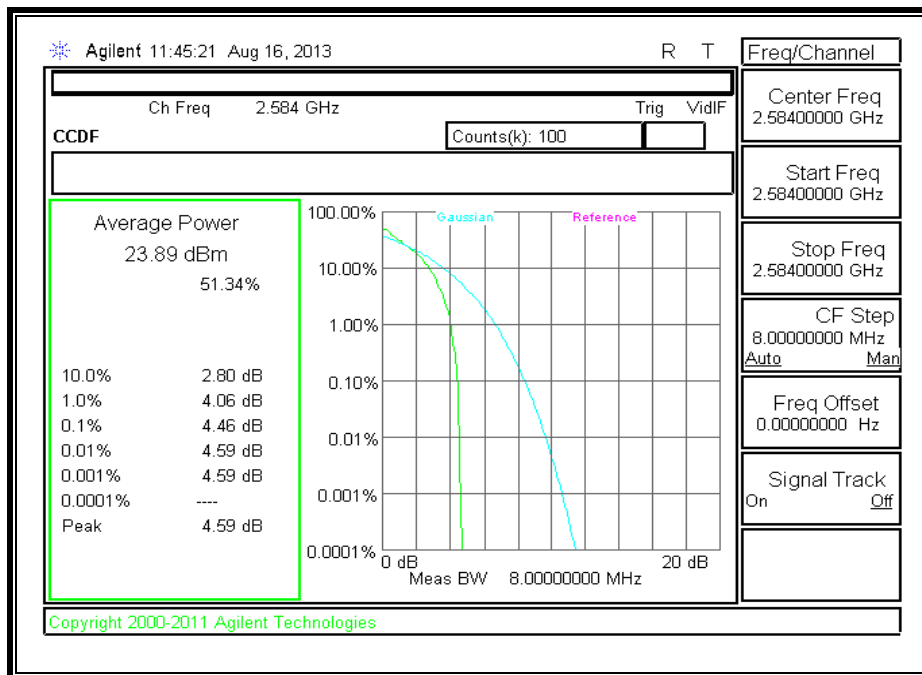
LTE Band 41, 10.0MHz 16QAM



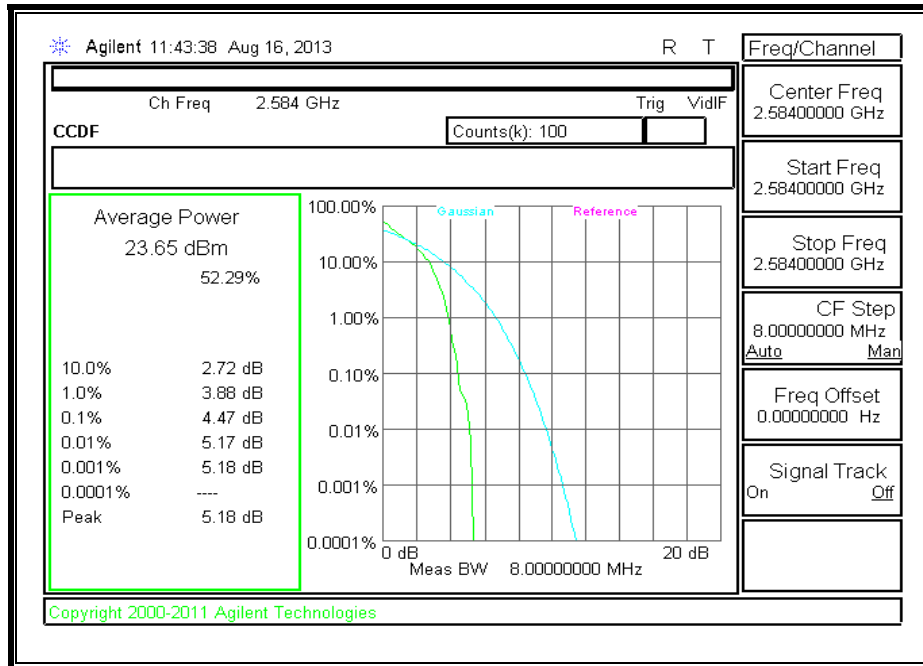
LTE Band 41, 15.0MHz QPSK



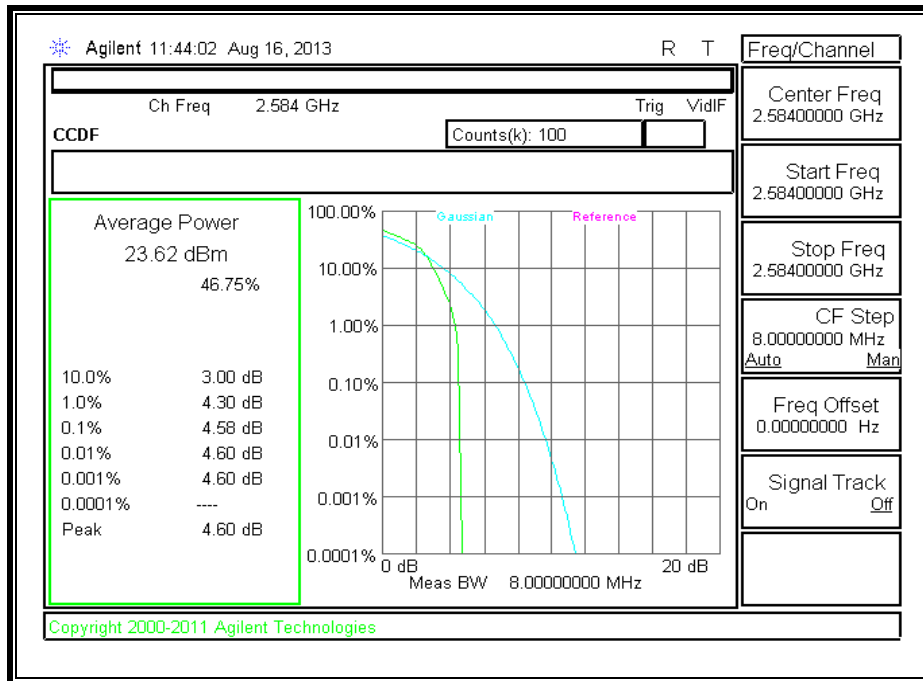
LTE Band 41, 15.0MHz 16QAM



LTE Band 41, 20.0MHz QPSK



LTE Band 41, 20.0MHz 16QAM



8.3. BAND EDGE

RULE PART(S)

FCC: §22.359, 24.238

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

Reference to KDB 971168 D01 v02r01

The transmitter output was connected to a Agilent 8960 Test Set and configured to operate at maximum power. The band edge emissions were measured at the required operating frequencies in each band on the Spectrum Analyzer.

For each band edge measurement:

- Set the spectrum analyzer span to include the block edge frequency (824, 848, 1850, 1910MHz)
- Set a marker to point the corresponding band edge frequency in each test case.
- Set display line at -13 dBm
- Set resolution bandwidth to at least 1% of emission bandwidth.

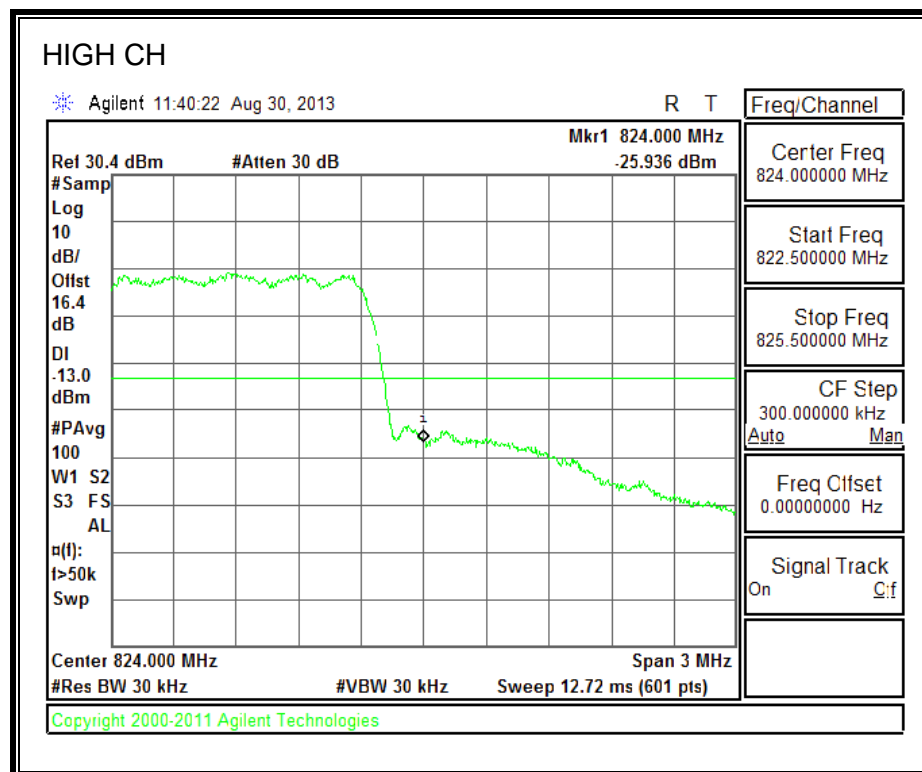
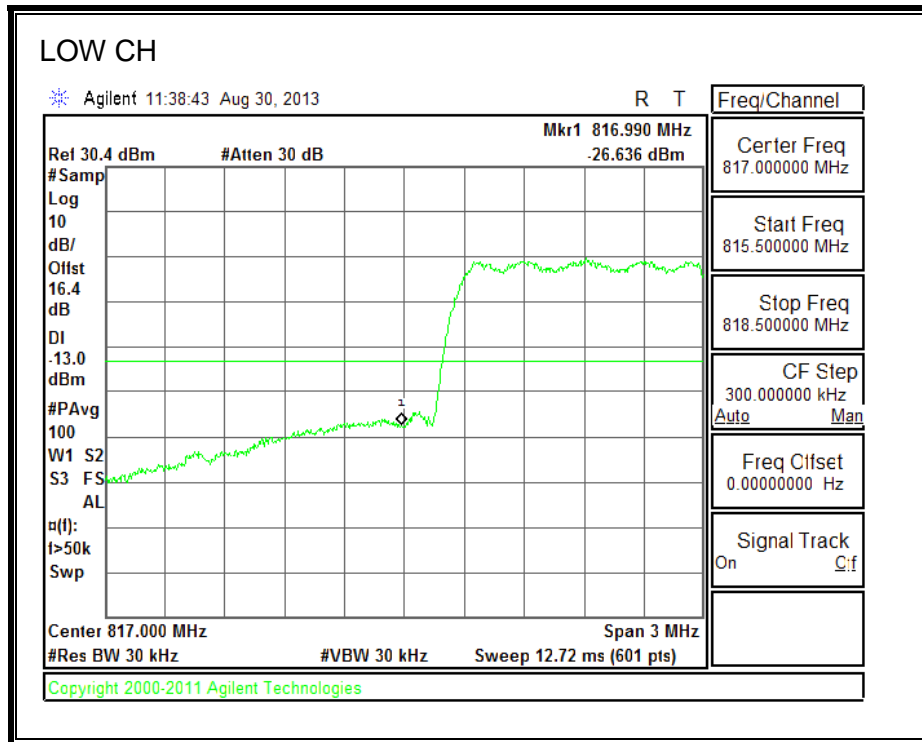
MODES TESTED

- CDMA2000 1xRTT BC10, BC0, BC1
- CDMA2000 1xEVDO BC10, BC0, BC1
- LTE Band 25
- LTE Band 26

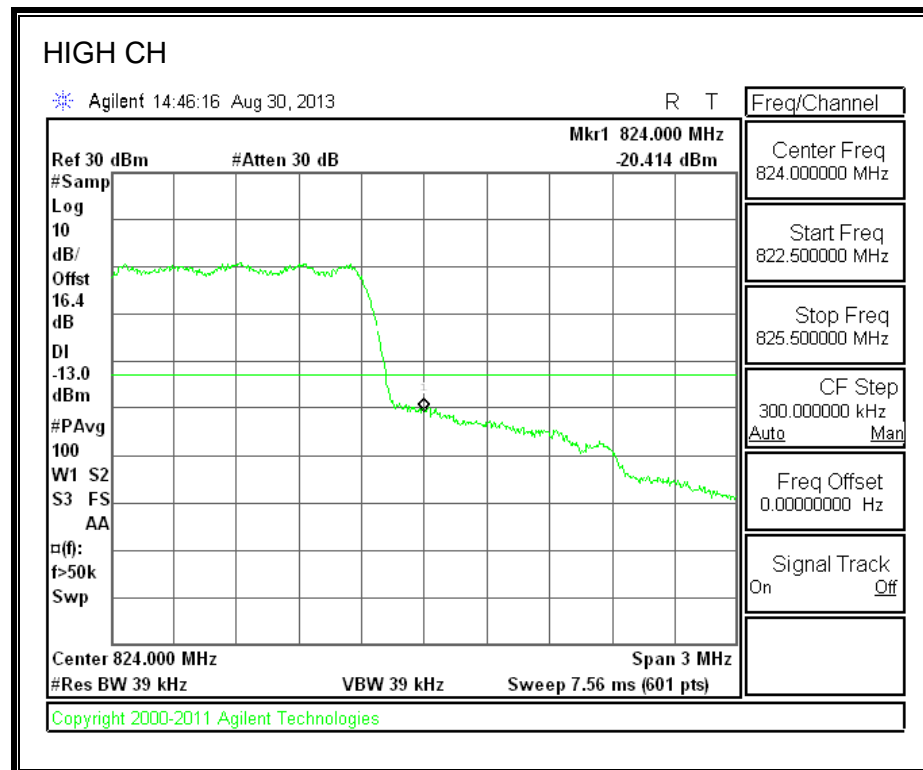
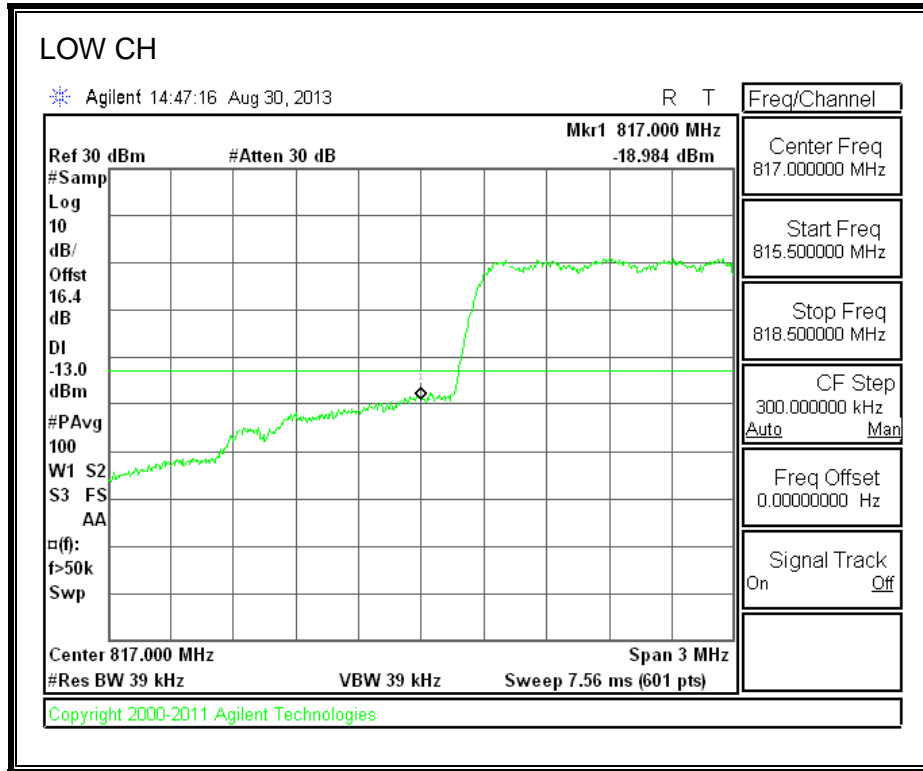
RESULTS

8.3.1. CDMA, BC10

1xRTT

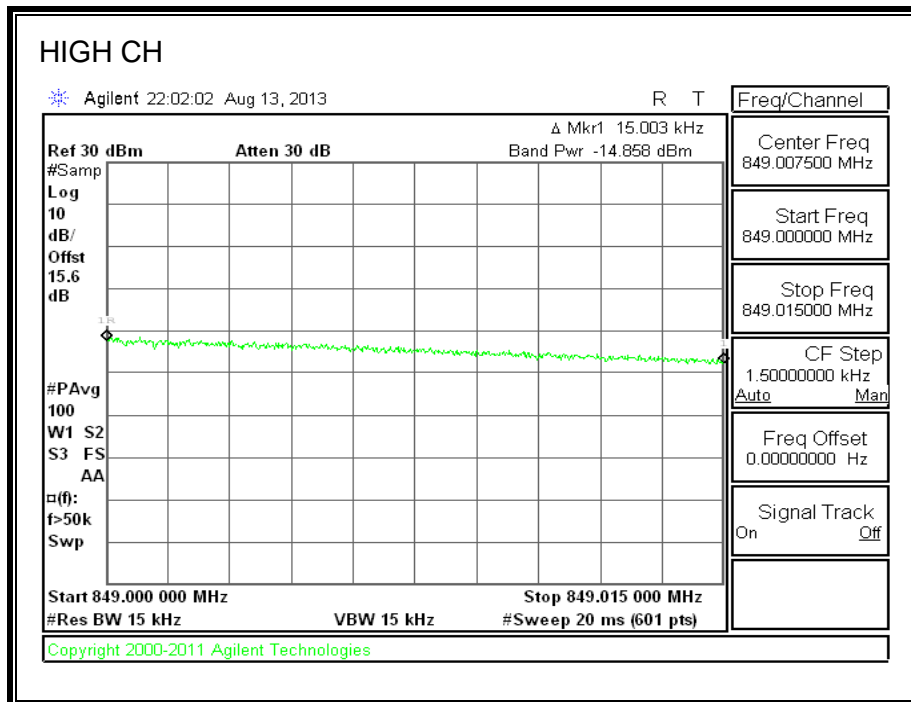
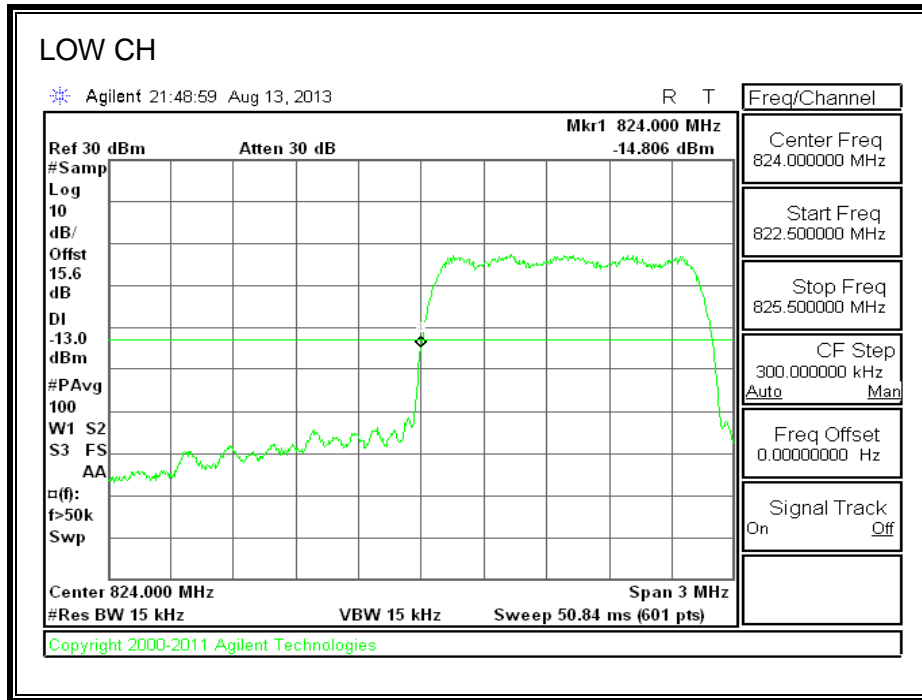


EVDO

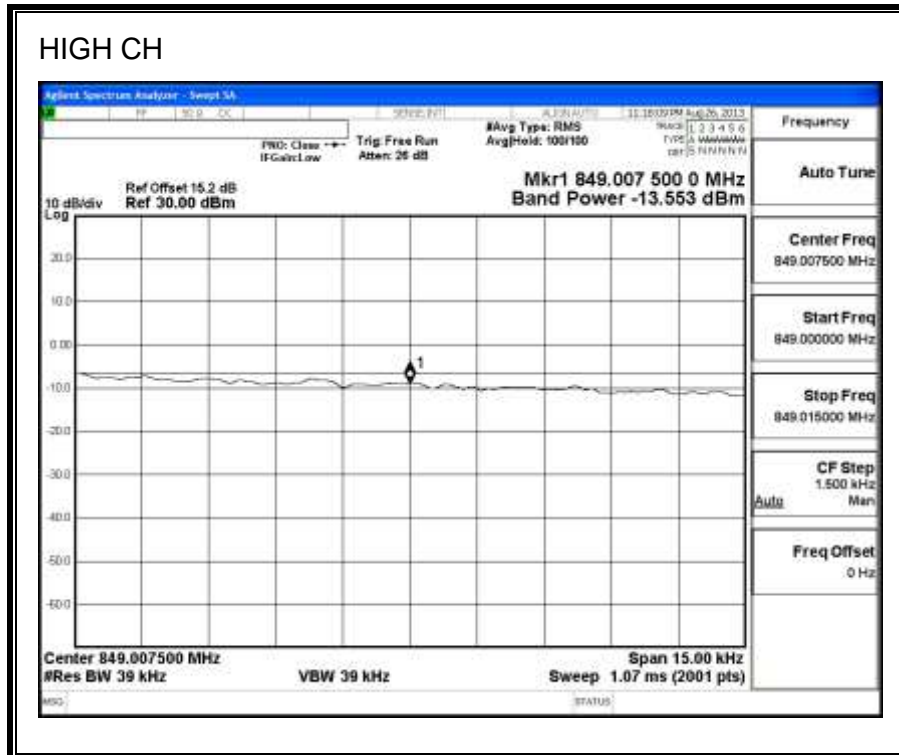
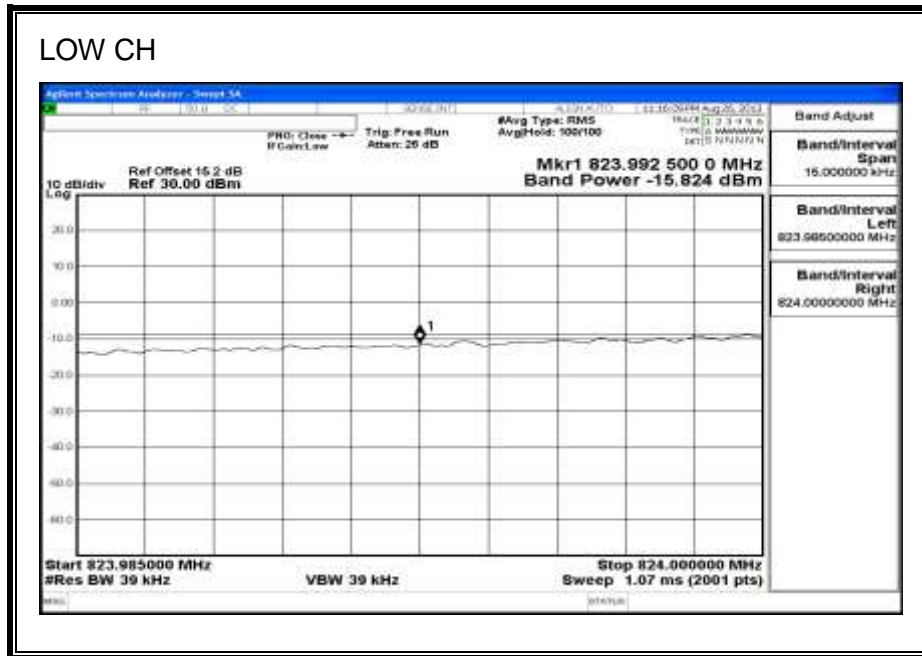


8.3.2. CDMA, BC0

1xRTT

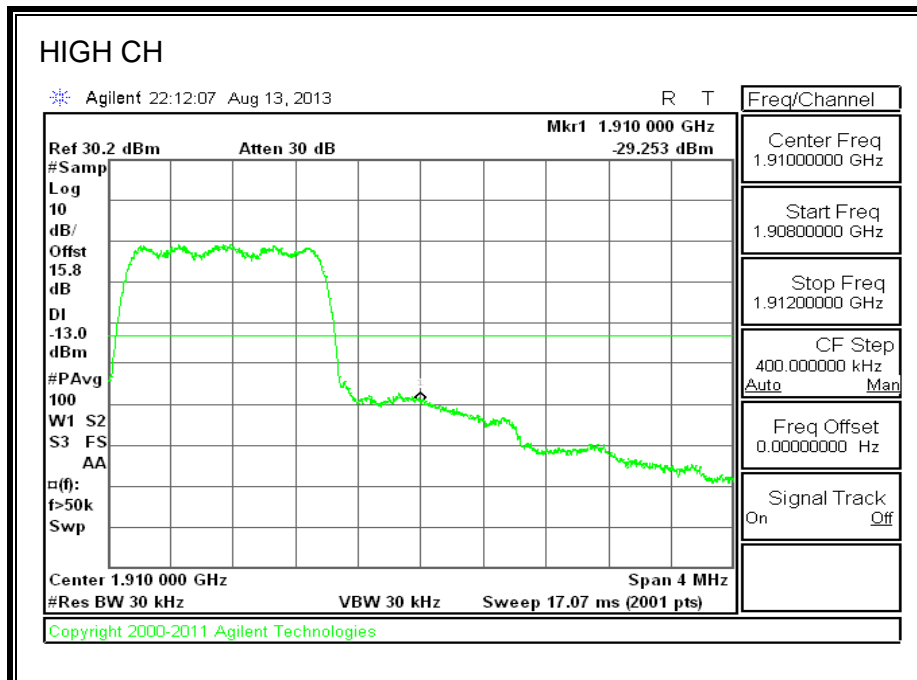
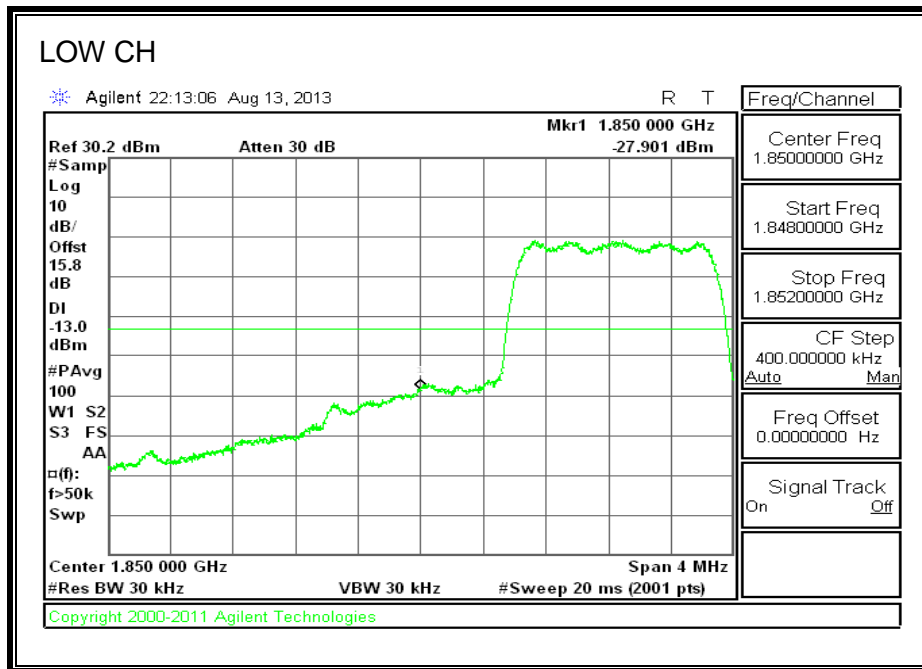


EVDO BC0

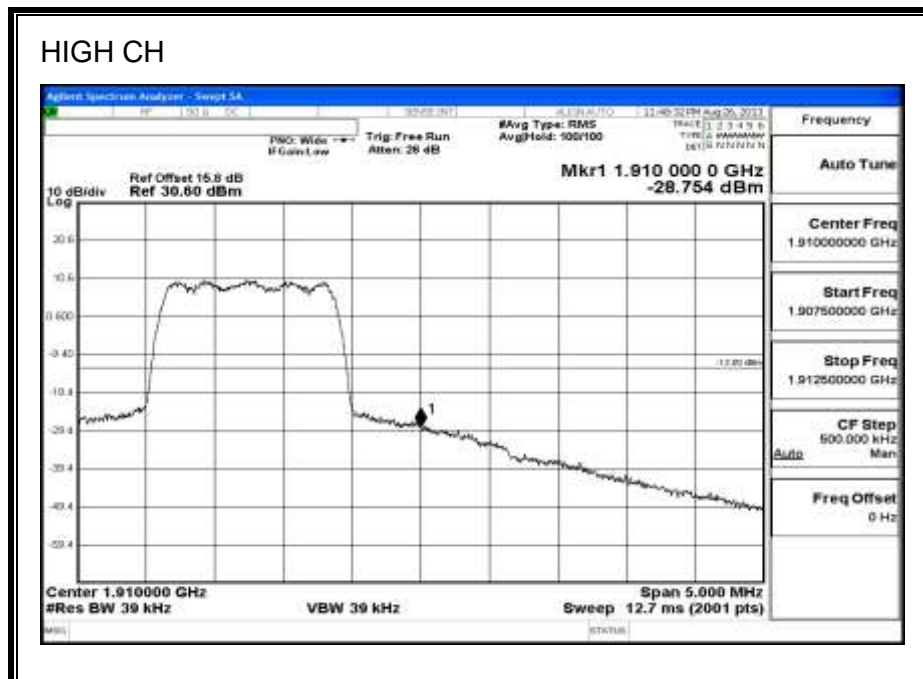
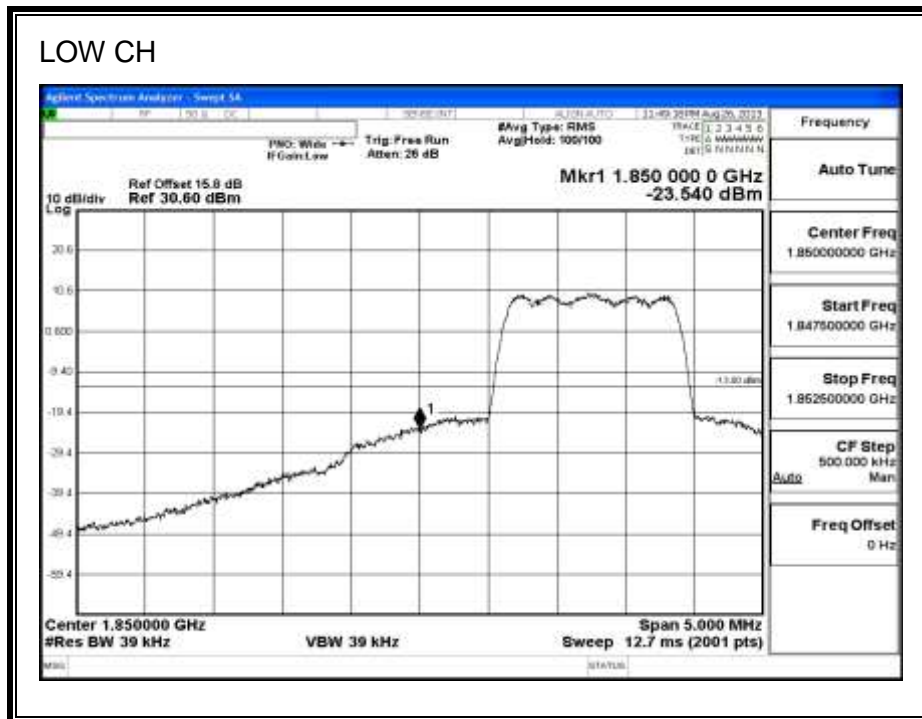


8.3.2. CDMA, BC1

1xRTT mode

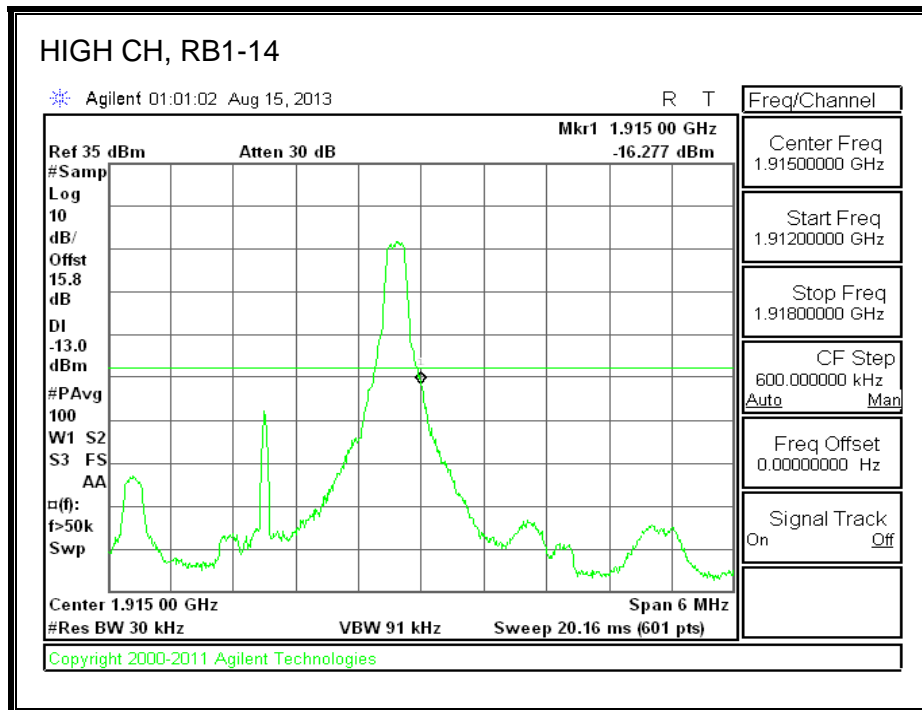
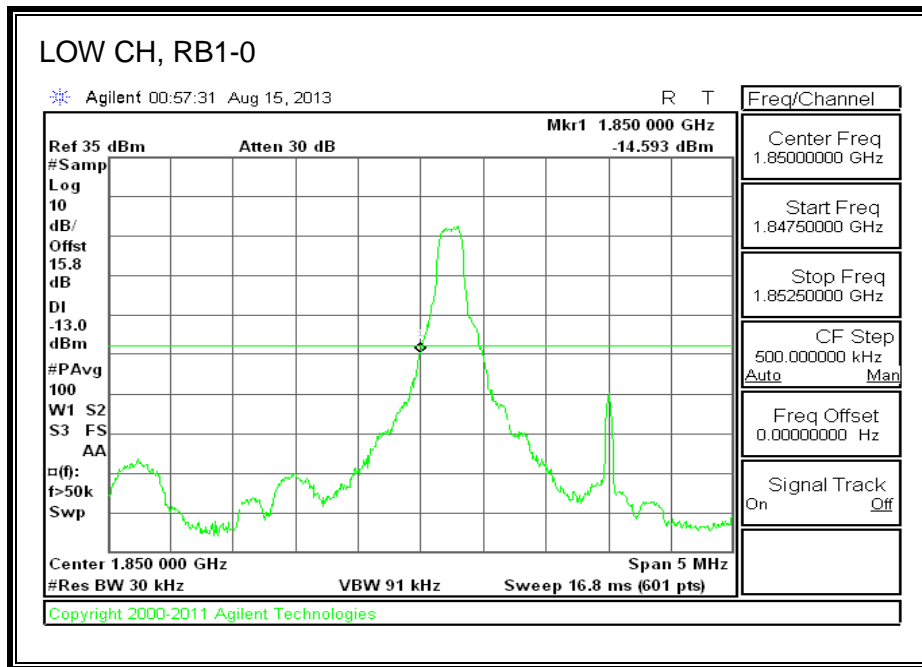


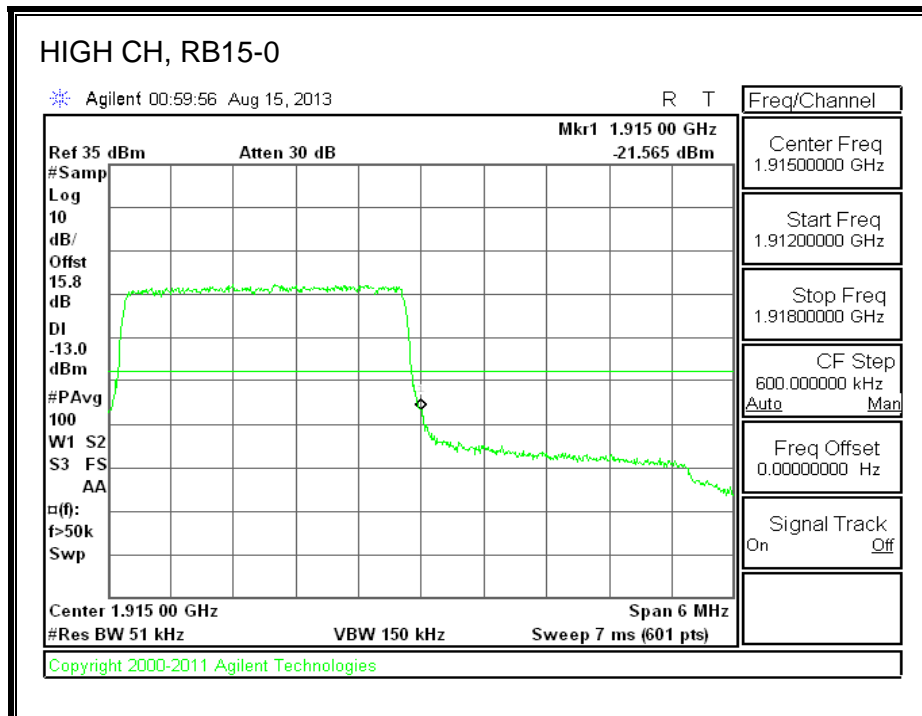
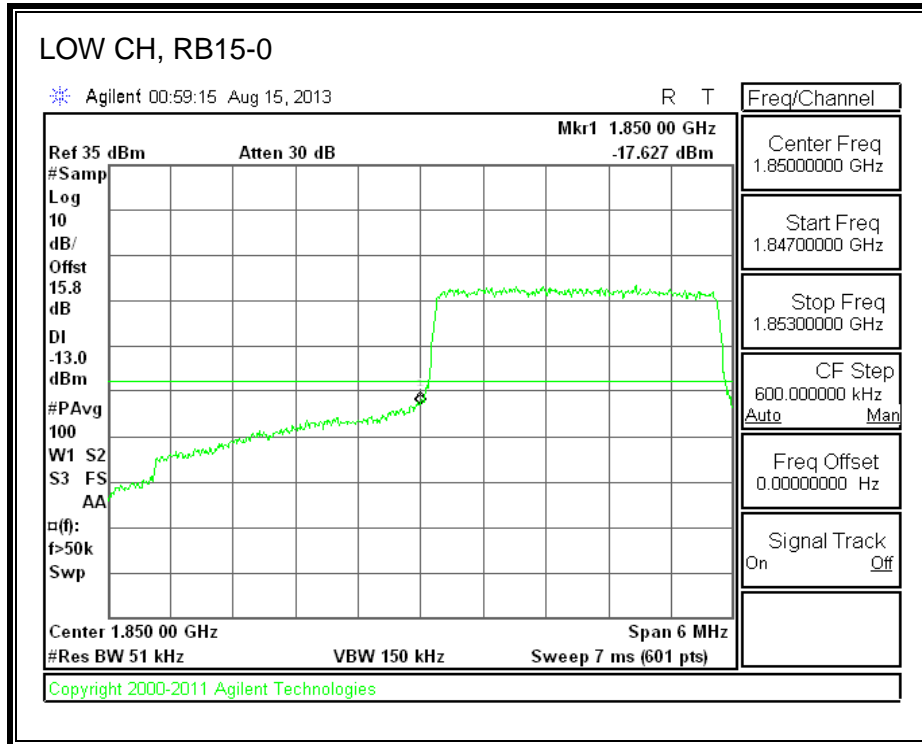
EVDO



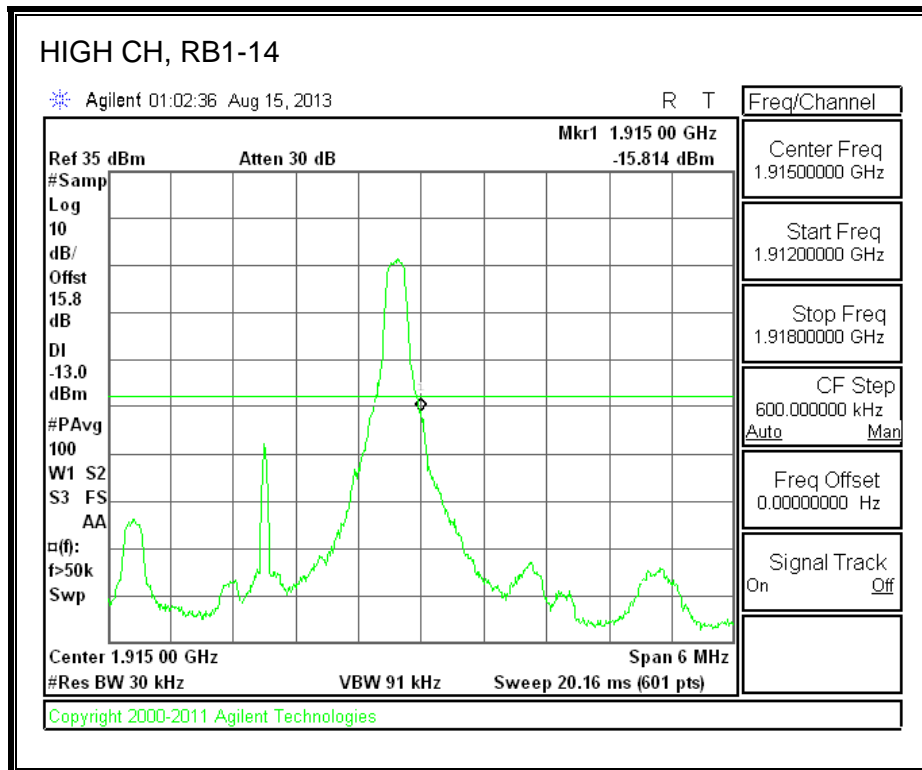
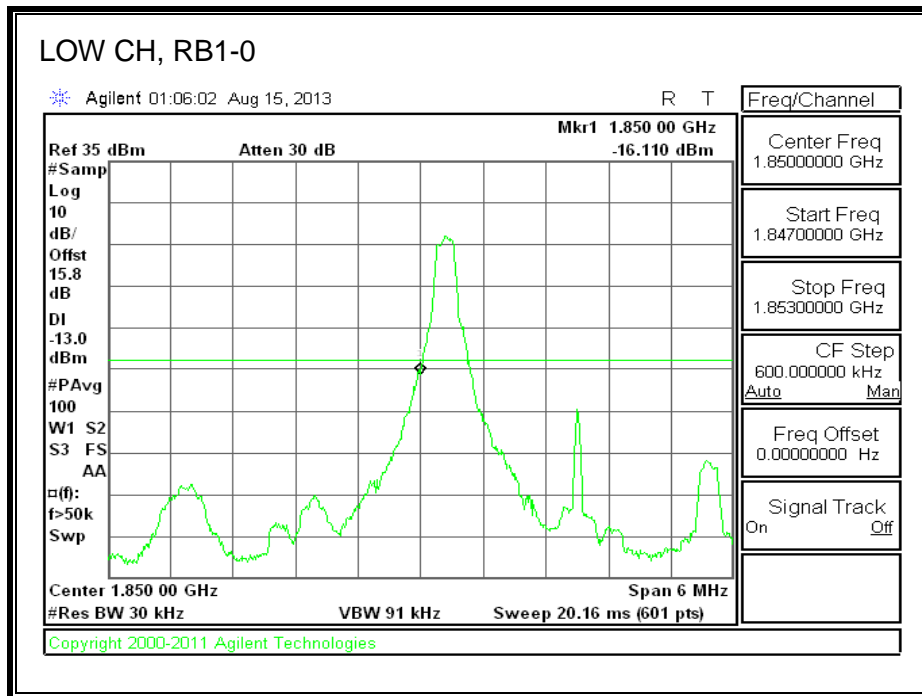
8.3.3. LTE BAND 25

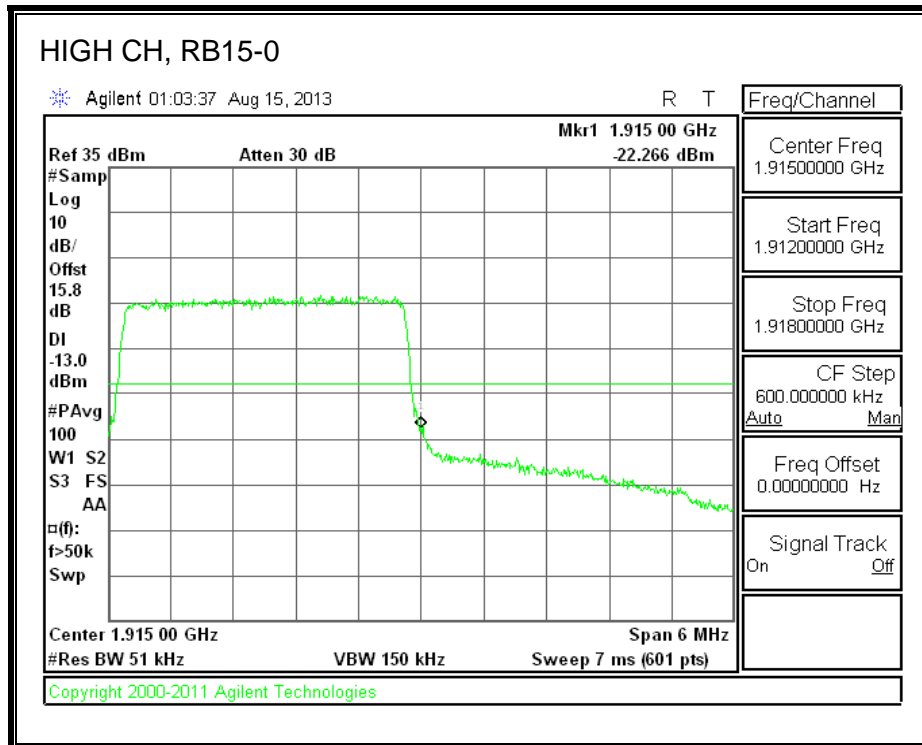
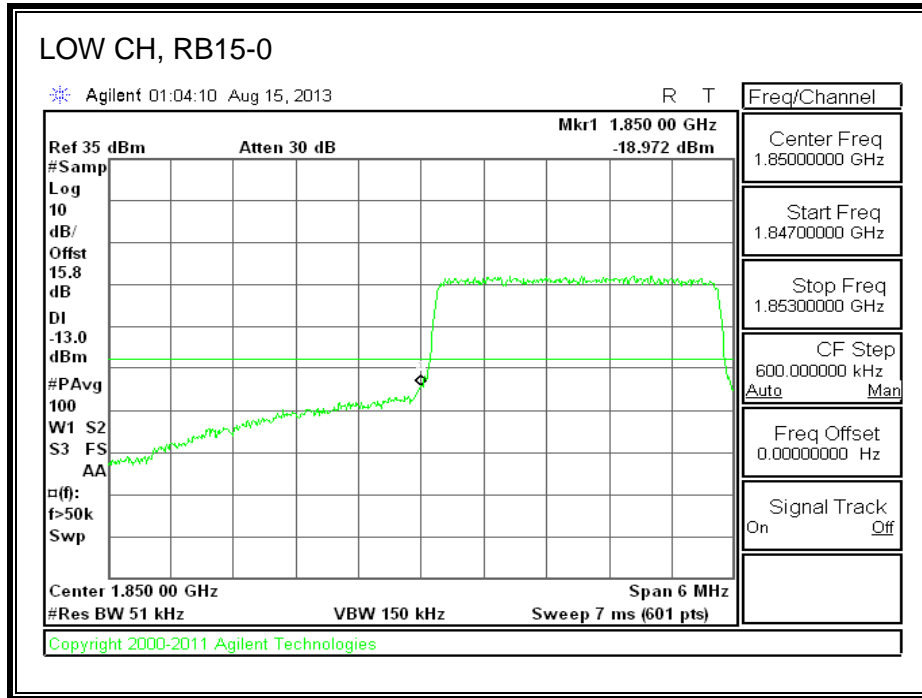
LTE QPSK Band 25 (3 MHz BANDWIDTH)



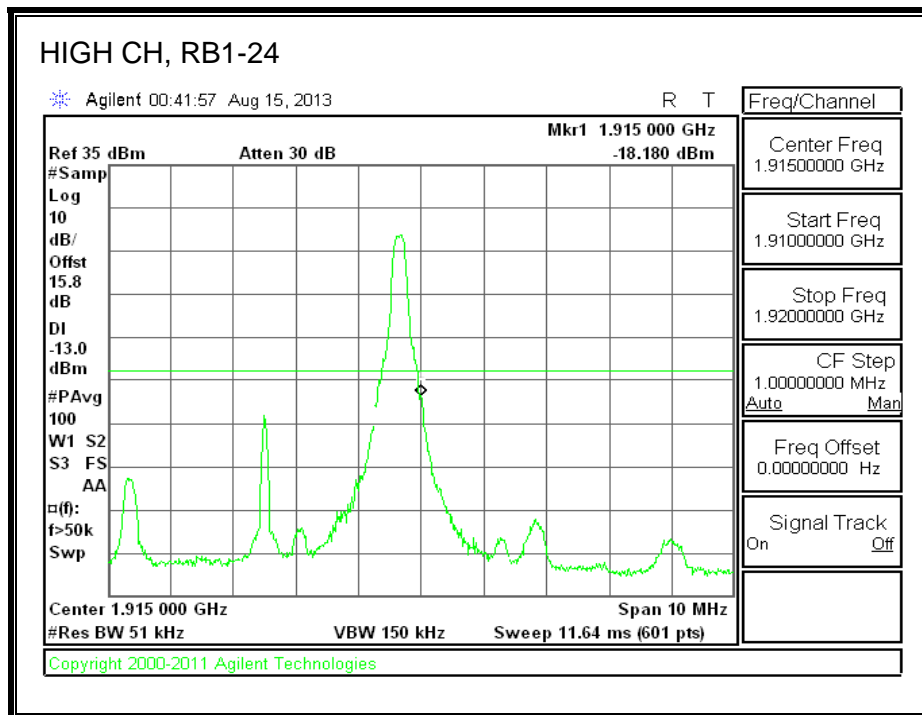
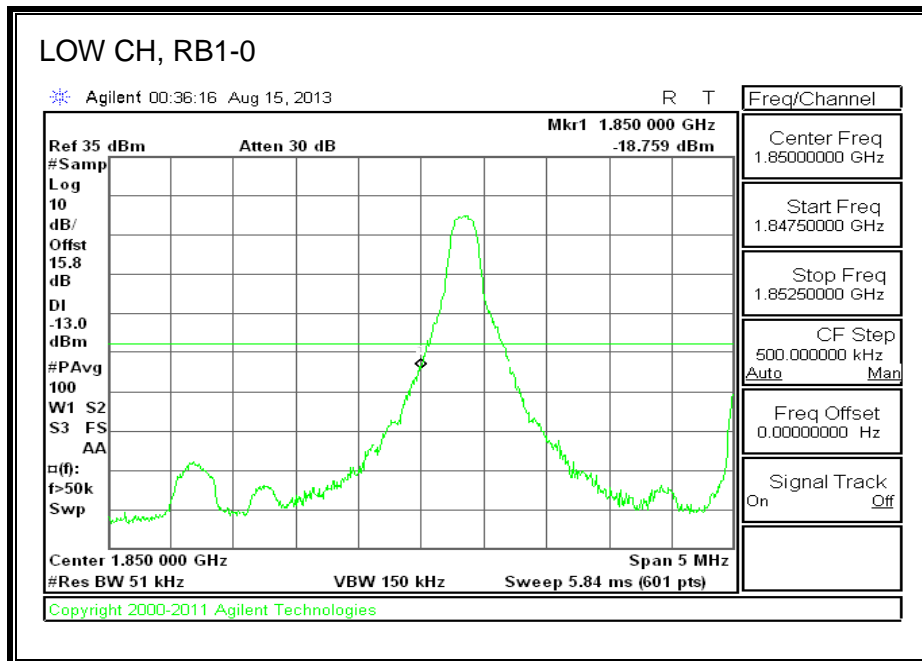


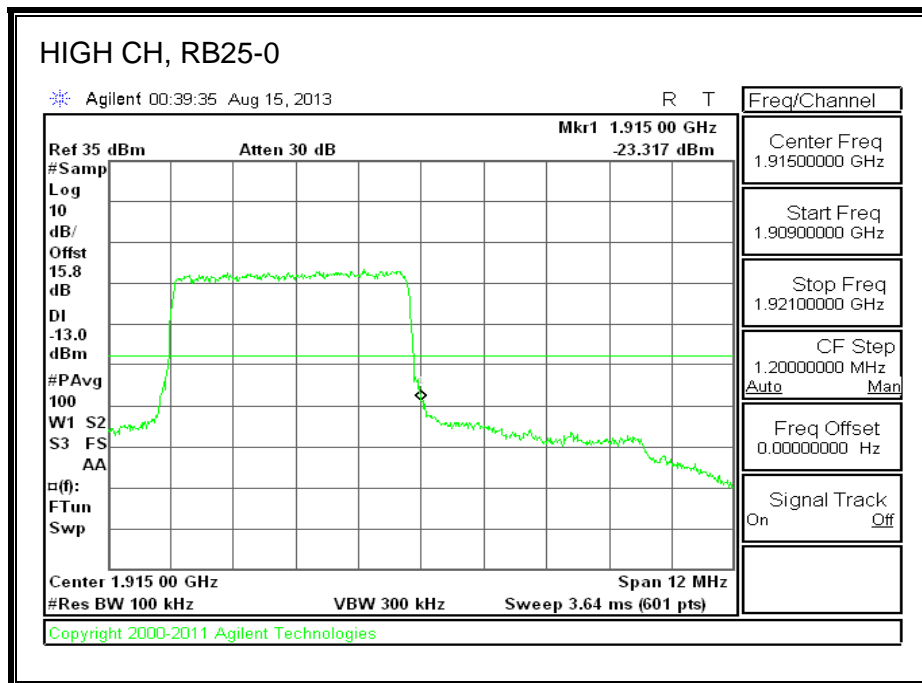
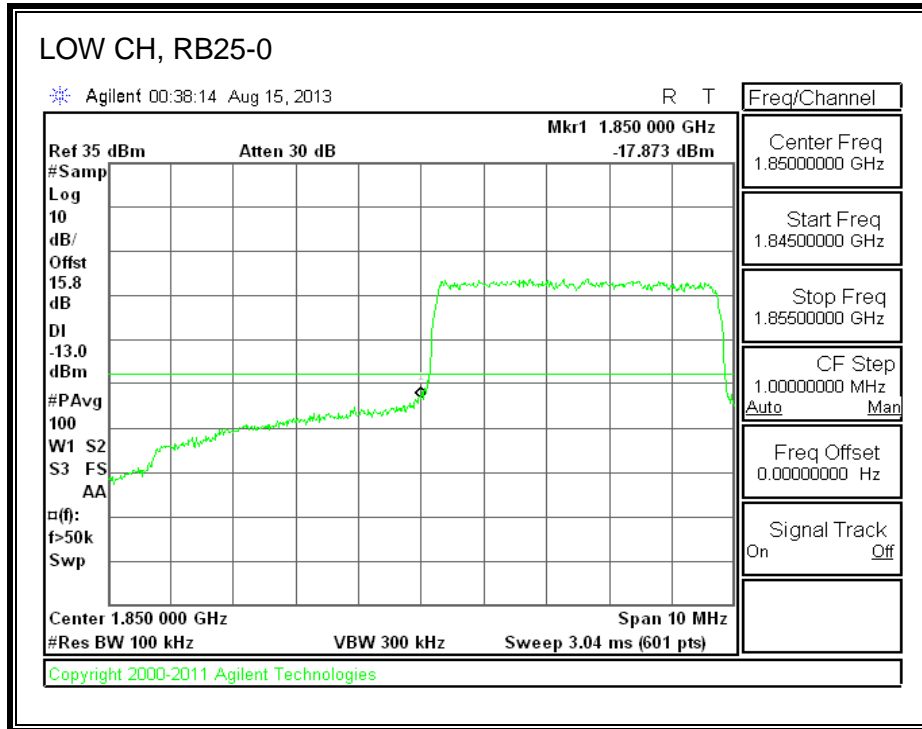
LTE 16QAM Band 25 (3 MHz BANDWIDTH)



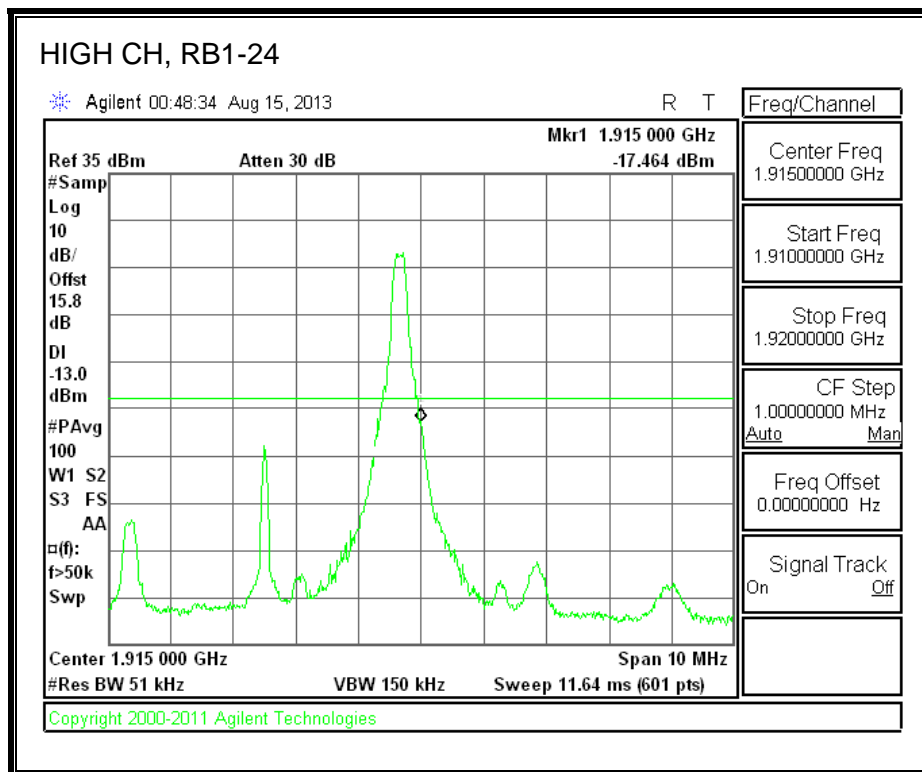
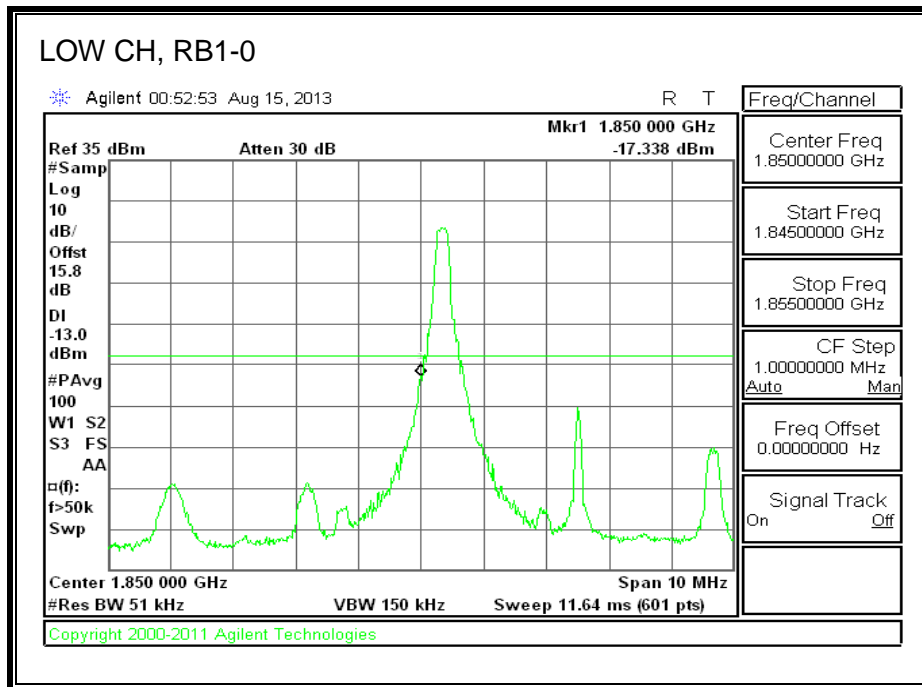


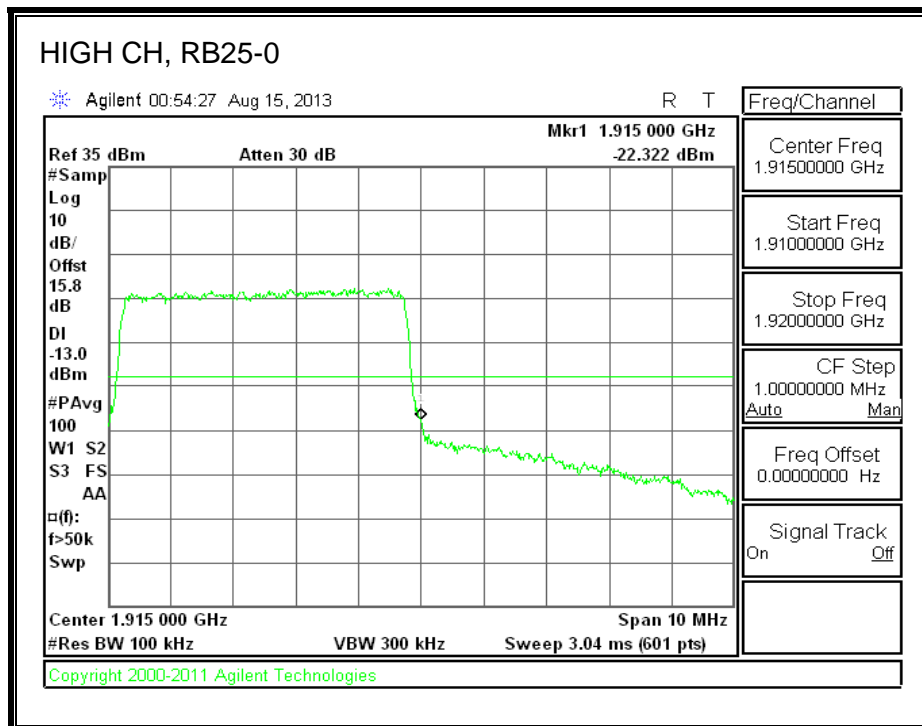
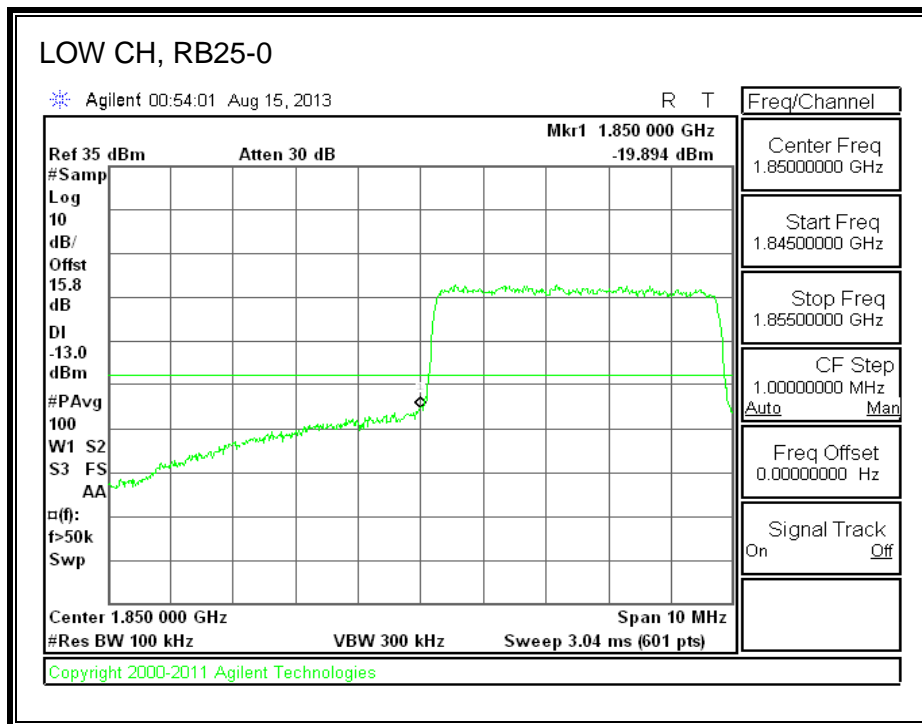
LTE QPSK Band 25 (5.0 MHz BANDWIDTH)



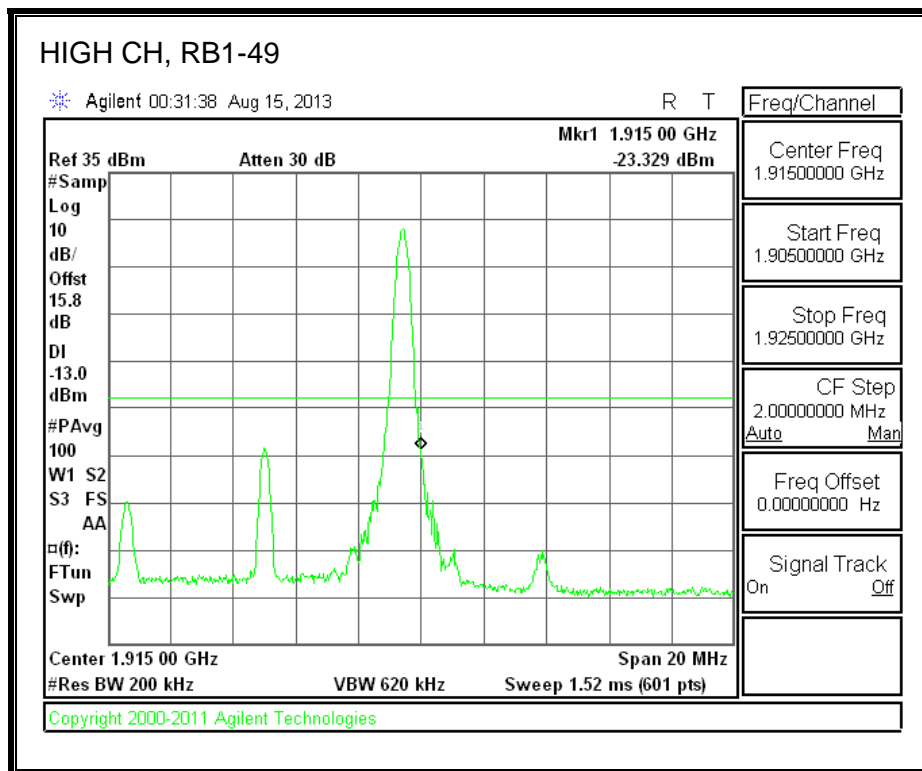
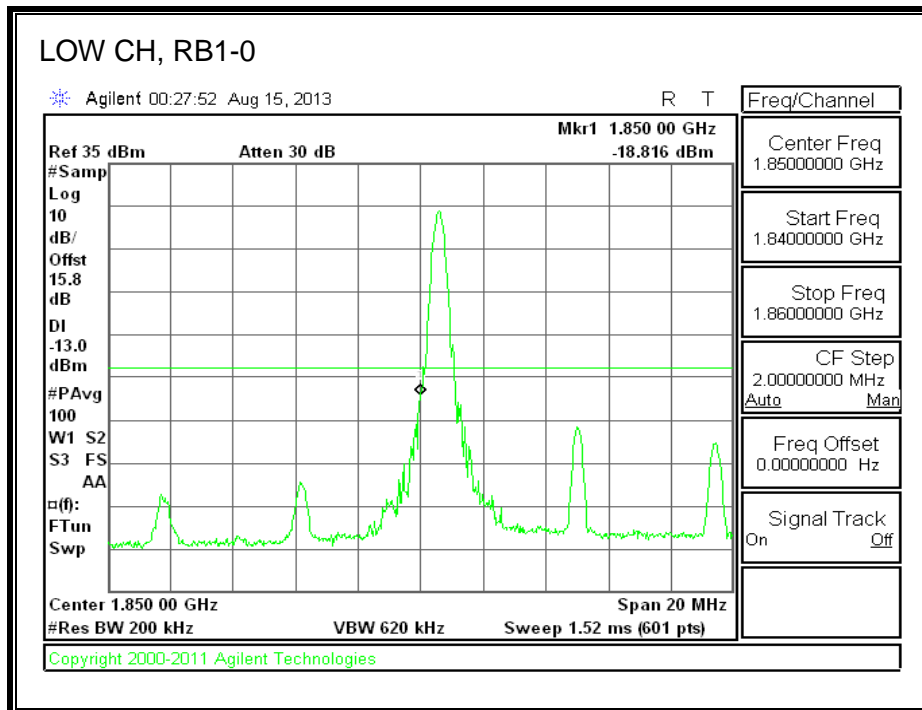


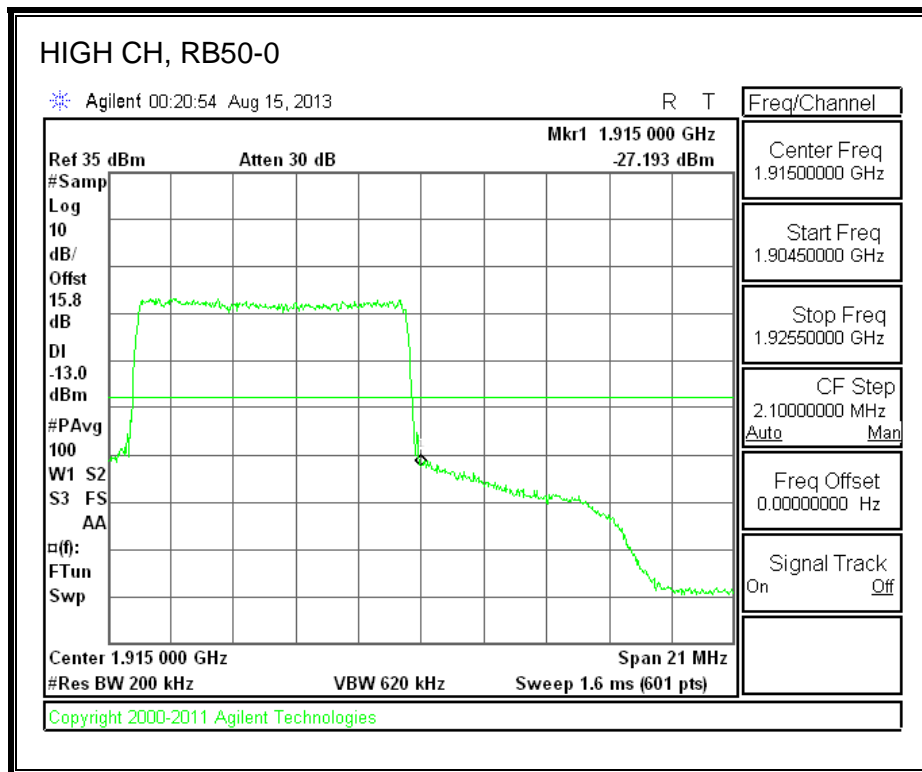
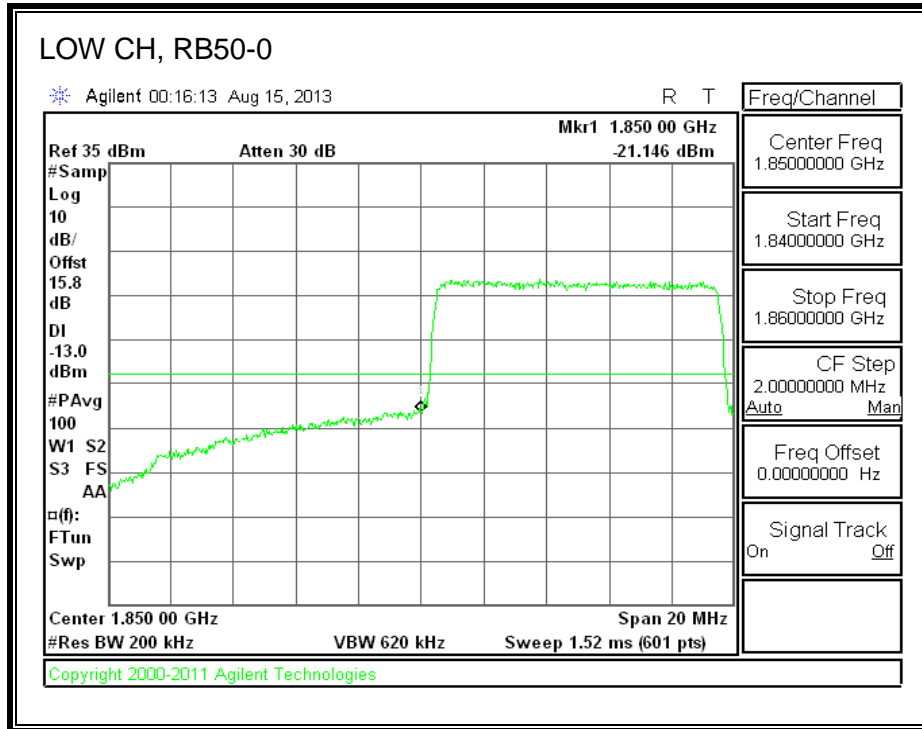
LTE 16QAM Band 25 (5 MHz BANDWIDTH)



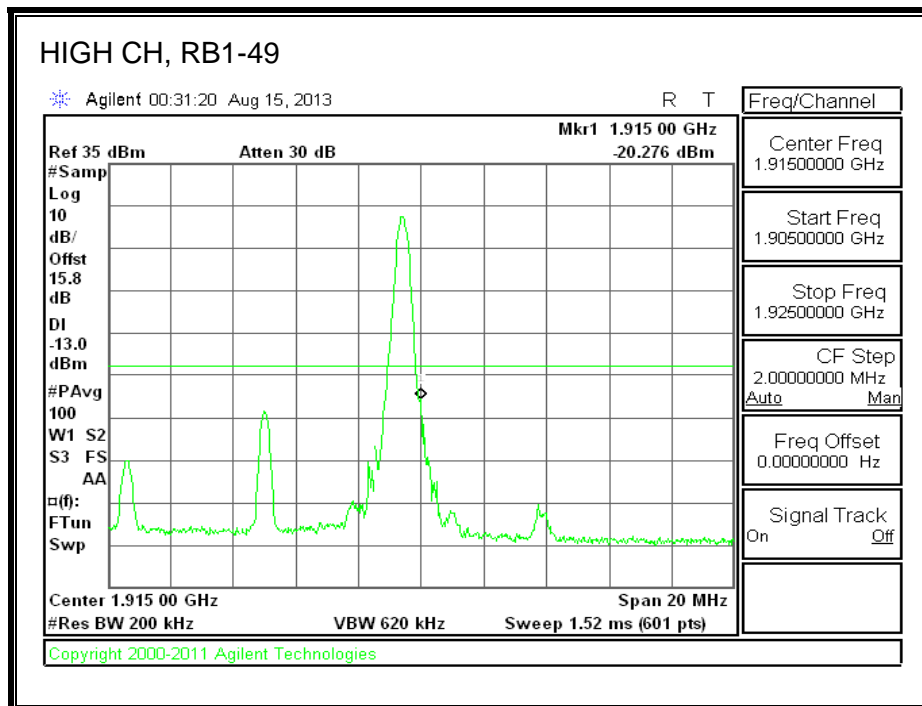
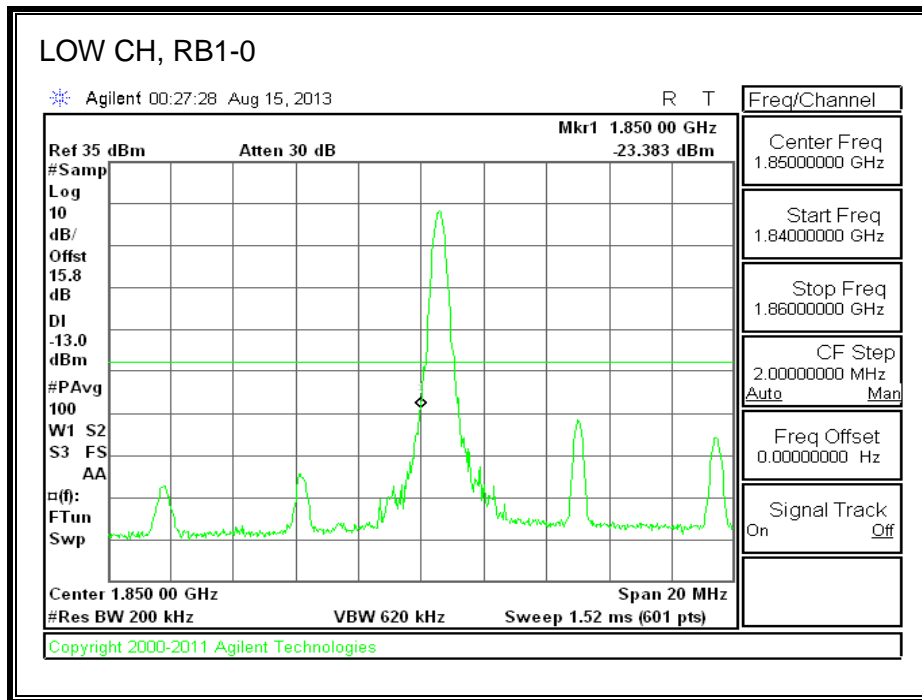


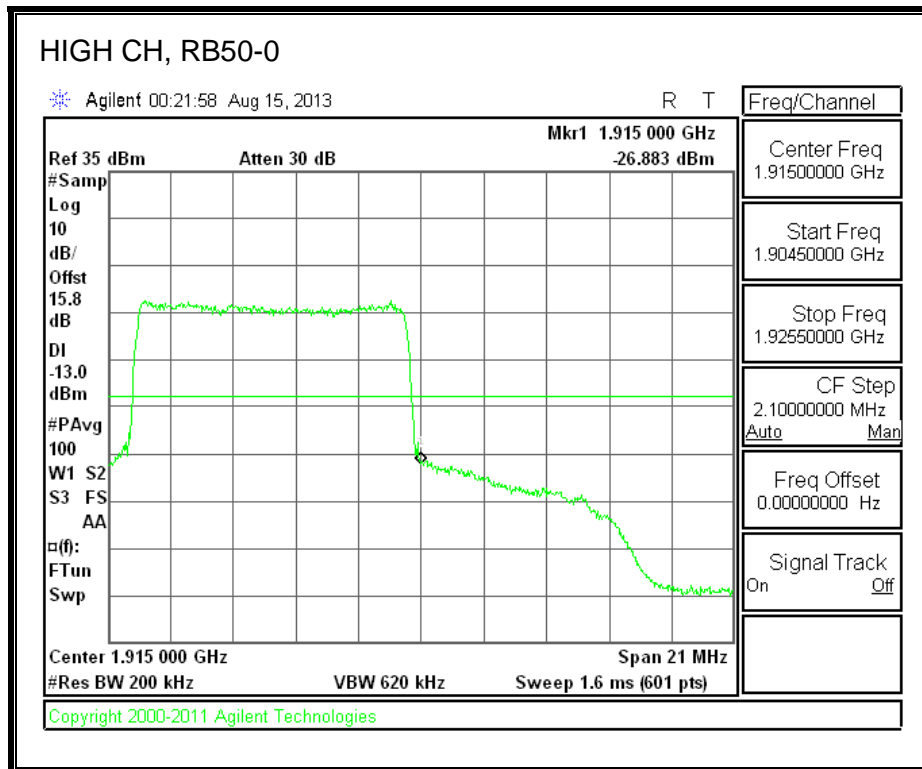
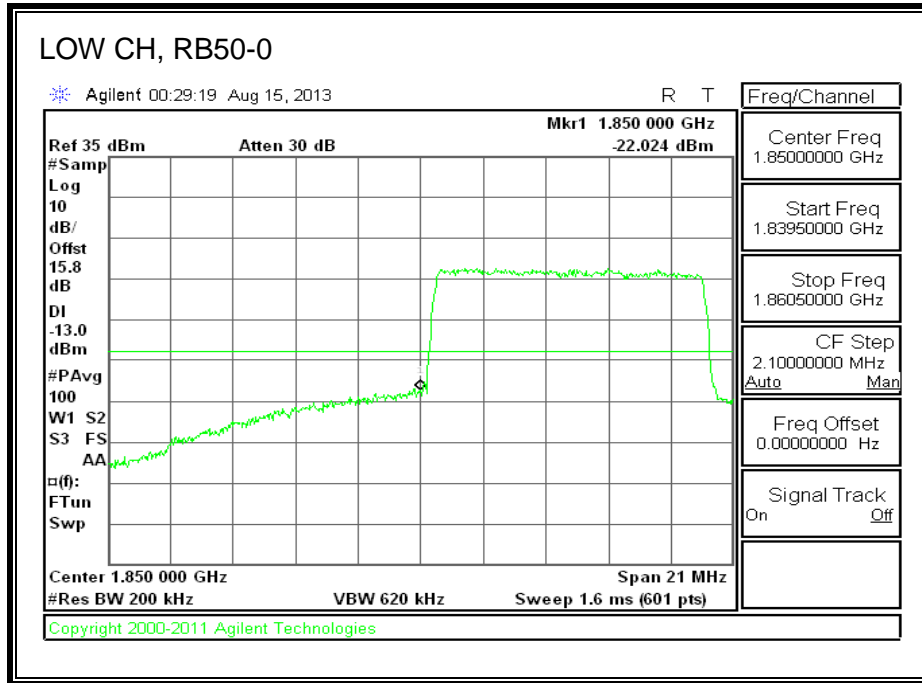
LTE QPSK Band 25 (10 MHz BANDWIDTH)





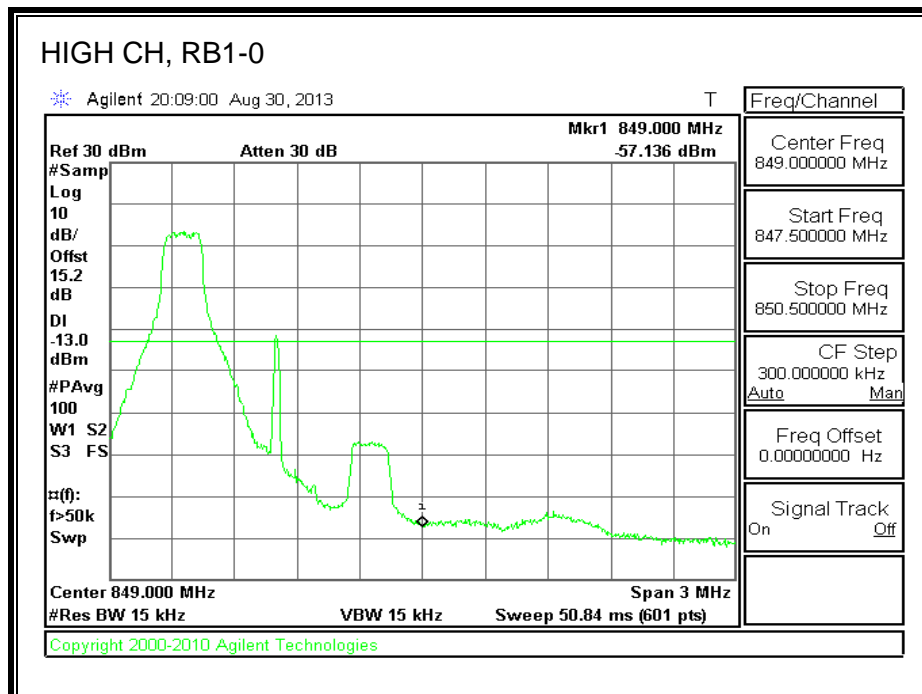
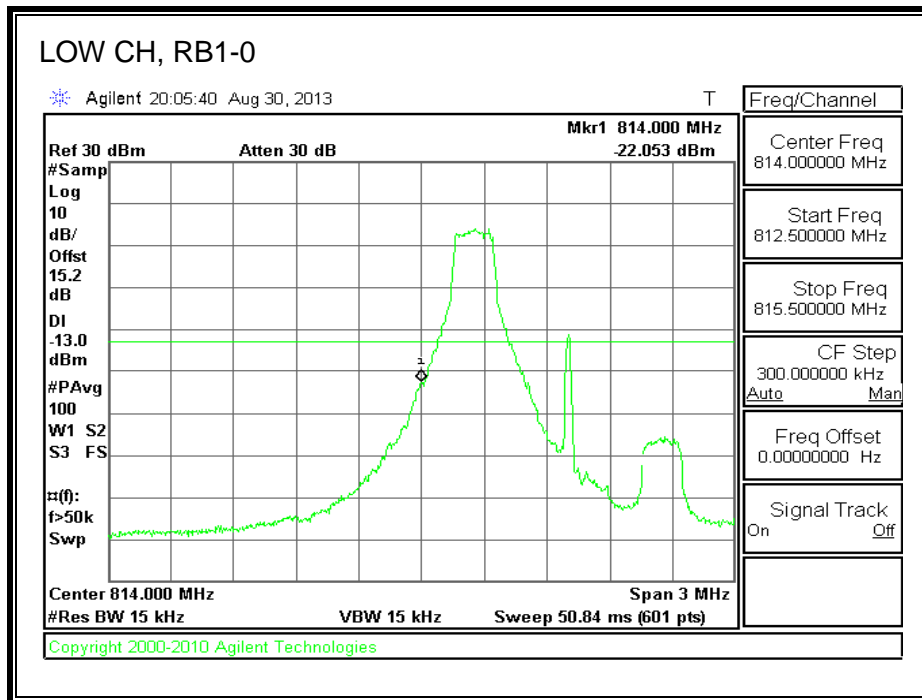
LTE 16QAM Band 25 (10 MHz BANDWIDTH)

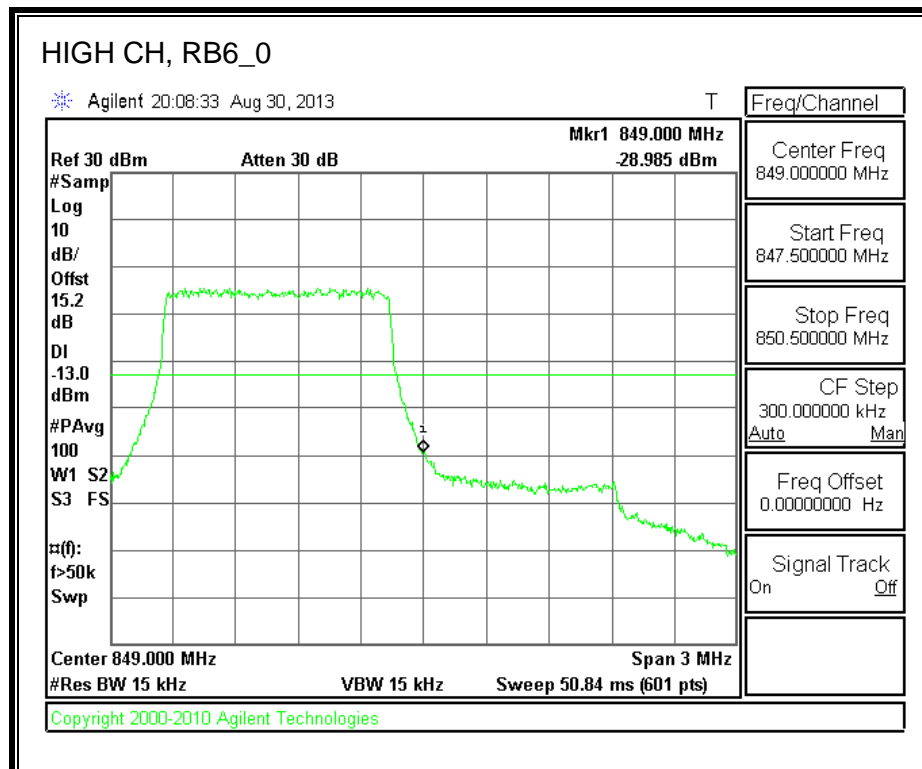
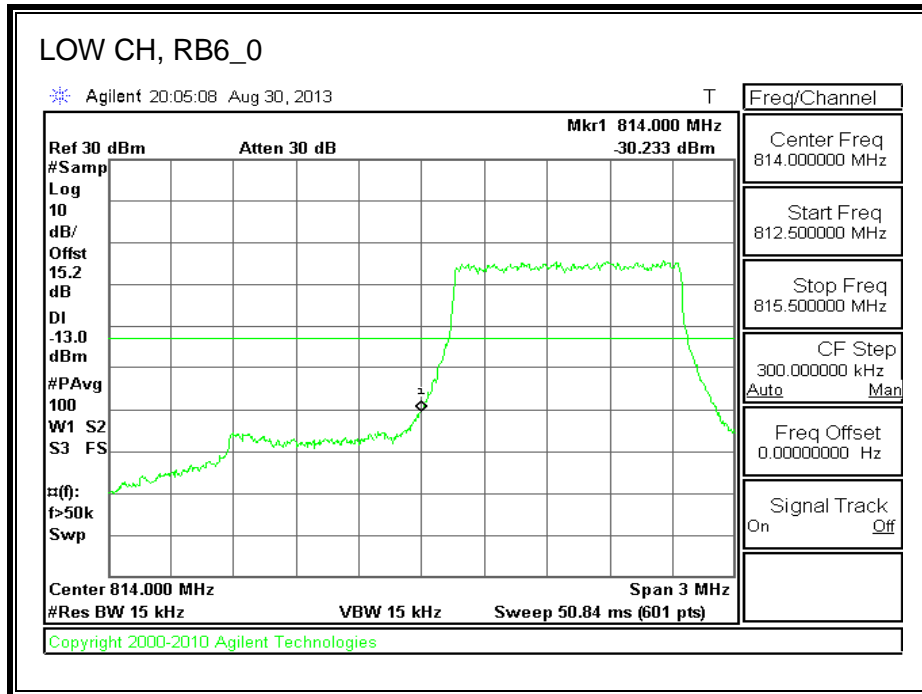




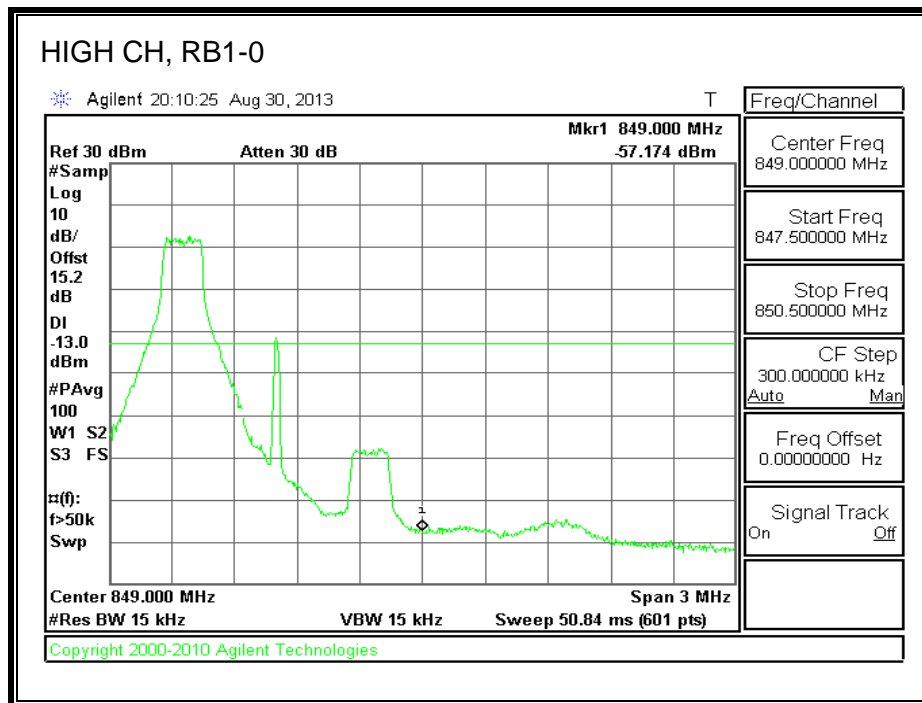
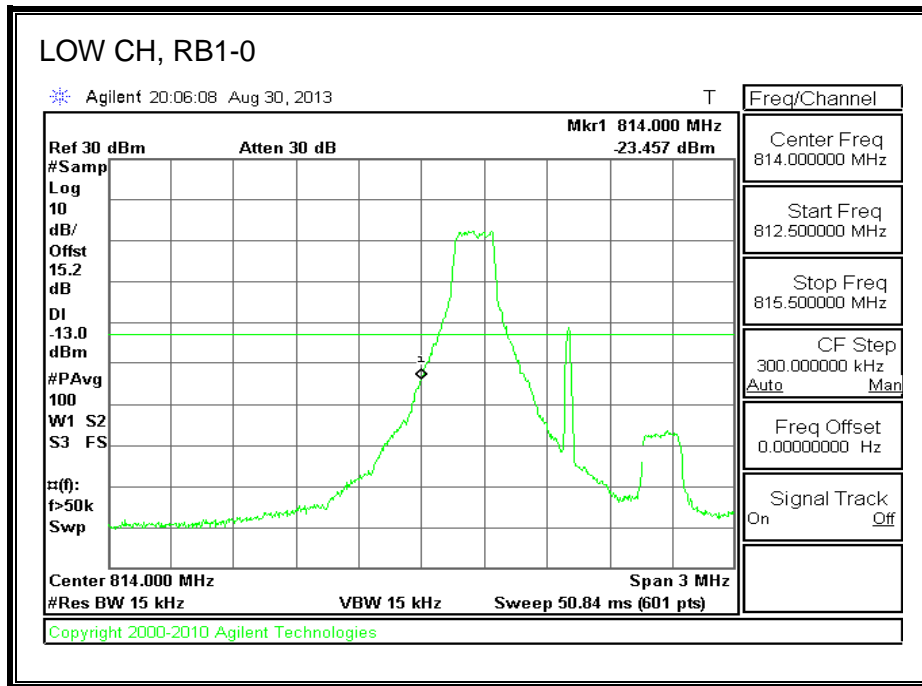
8.3.2. LTE BAND 26

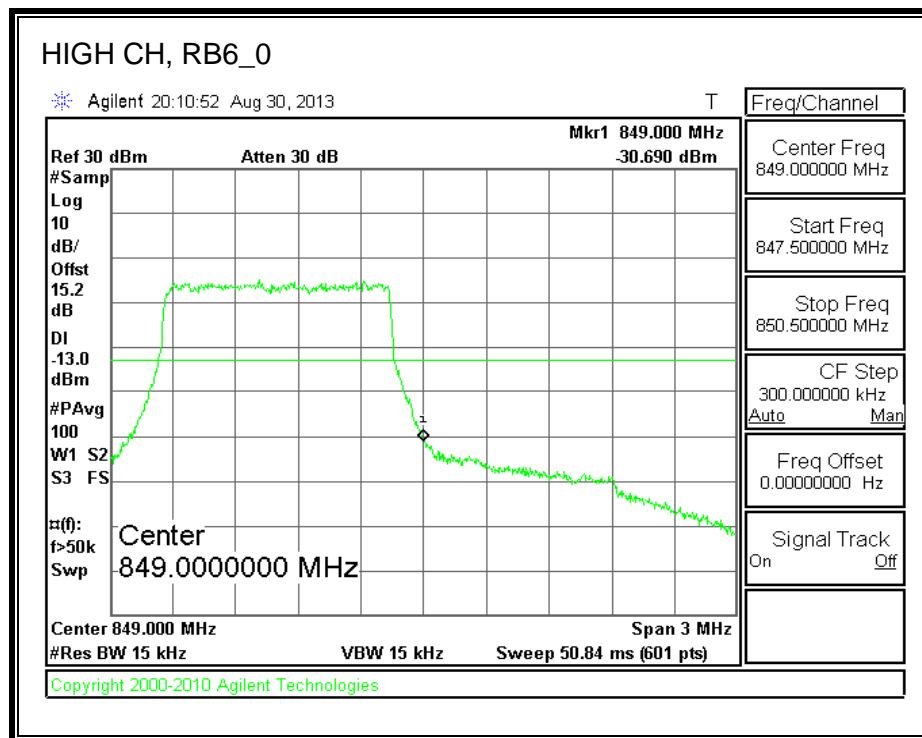
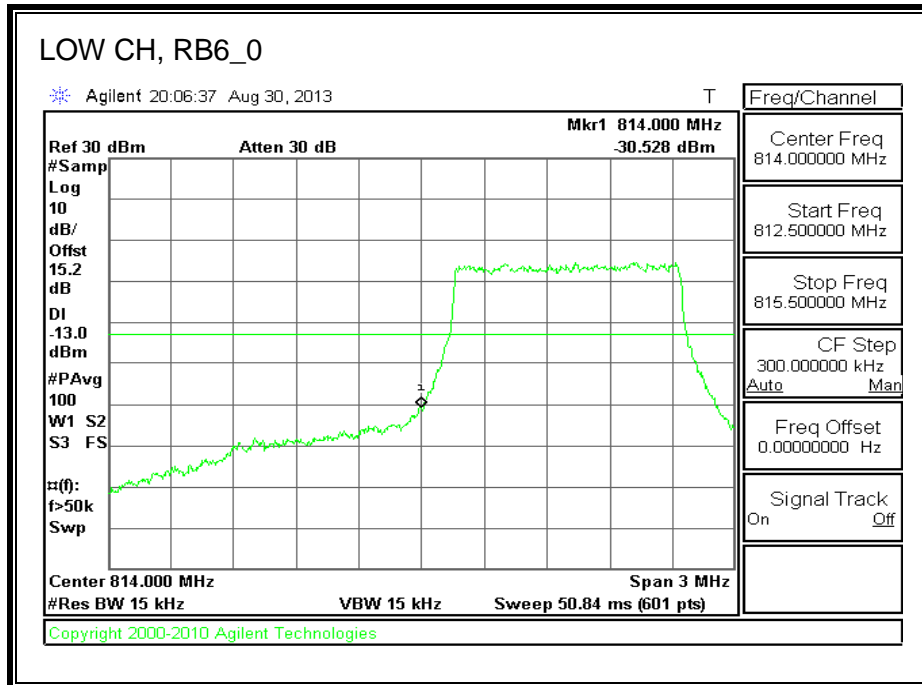
LTE QPSK Band 26 (1.4 MHz BANDWIDTH)

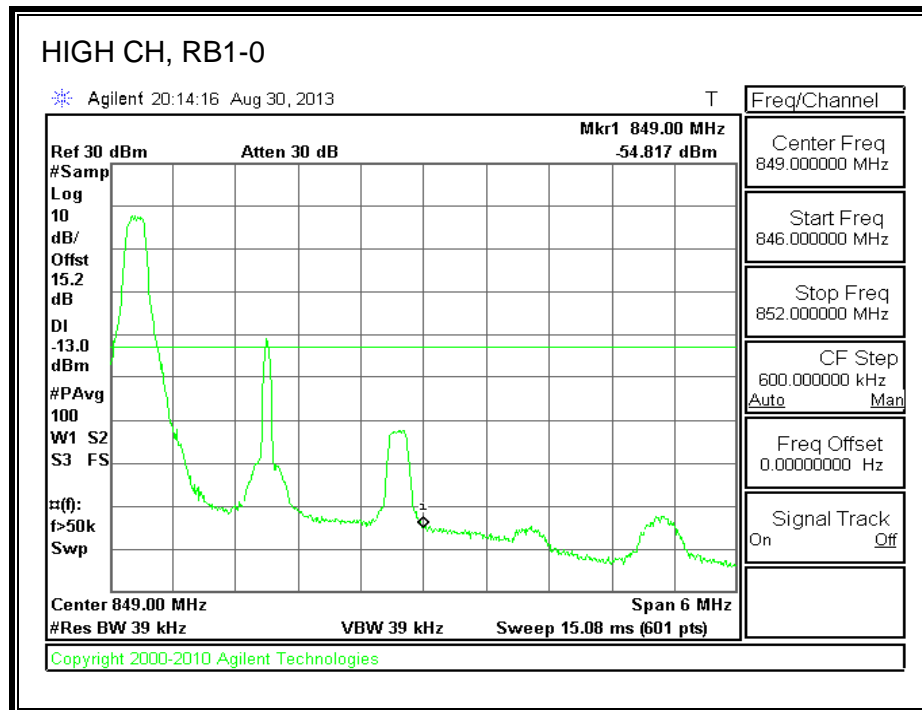
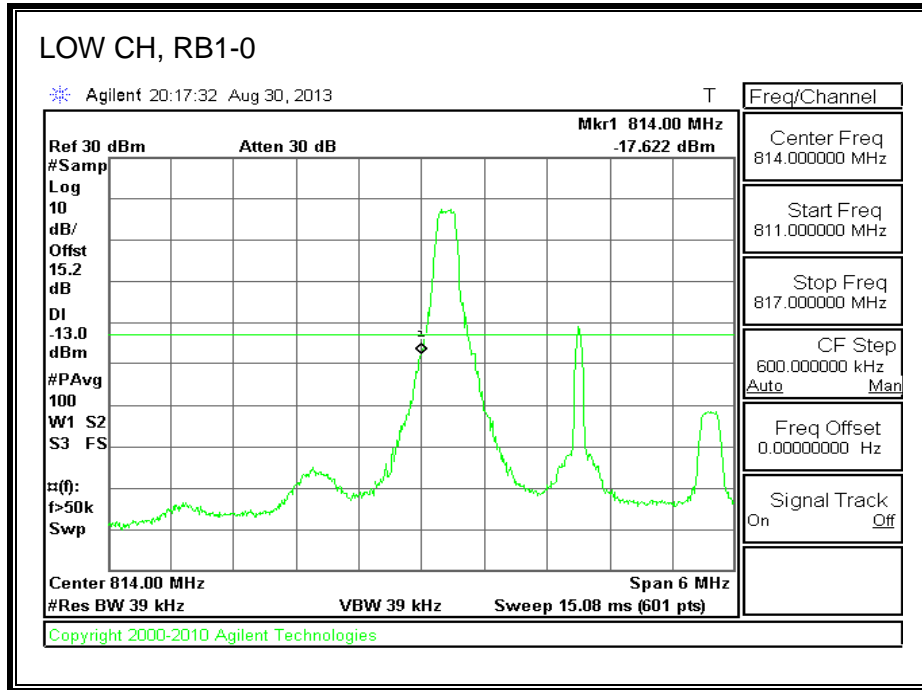


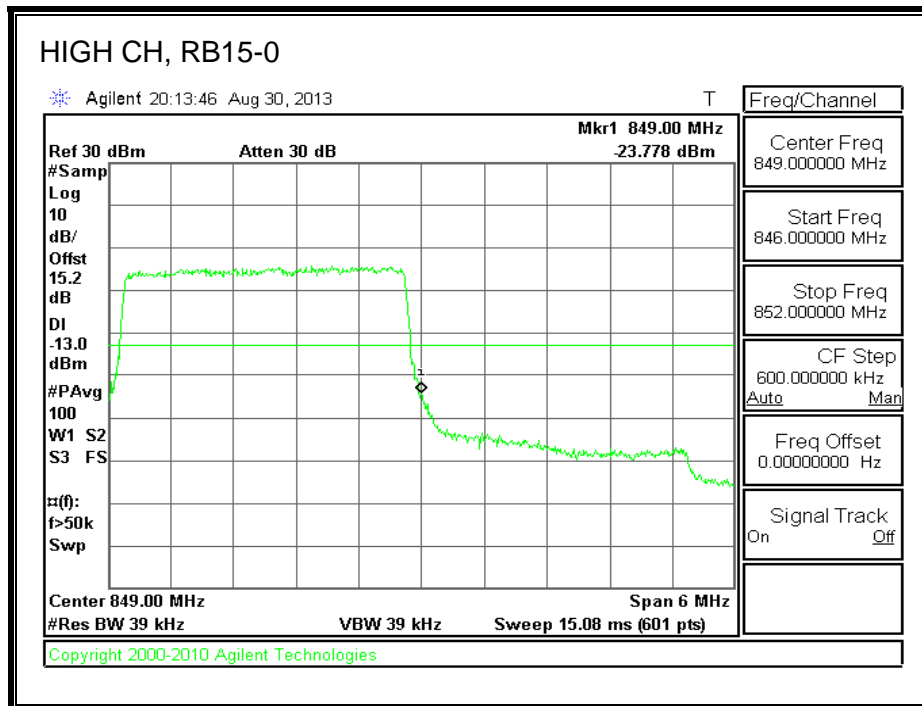
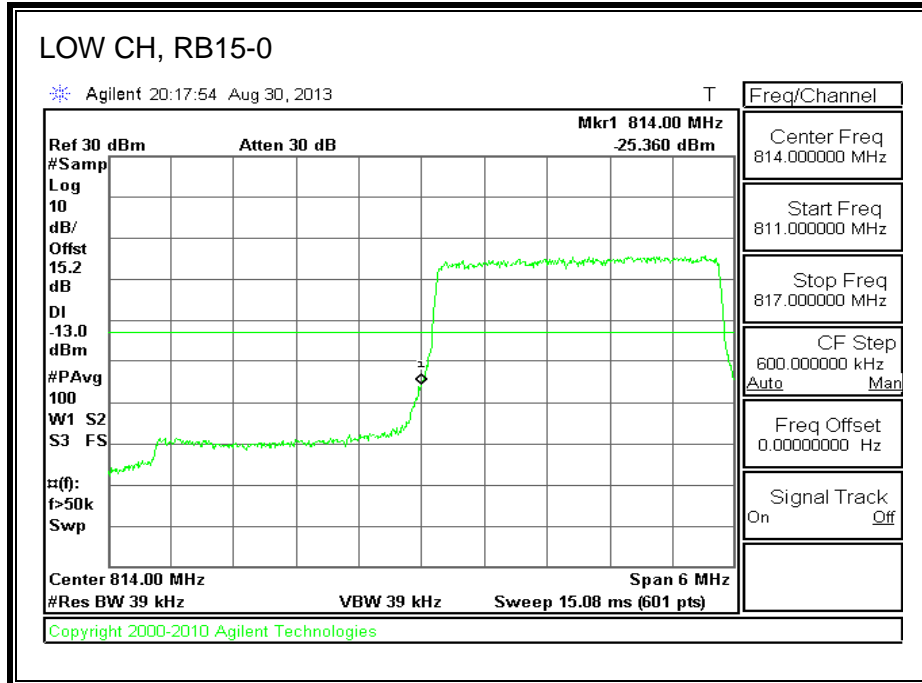


LTE 16QAM Band 26 (1.4 MHz BANDWIDTH)

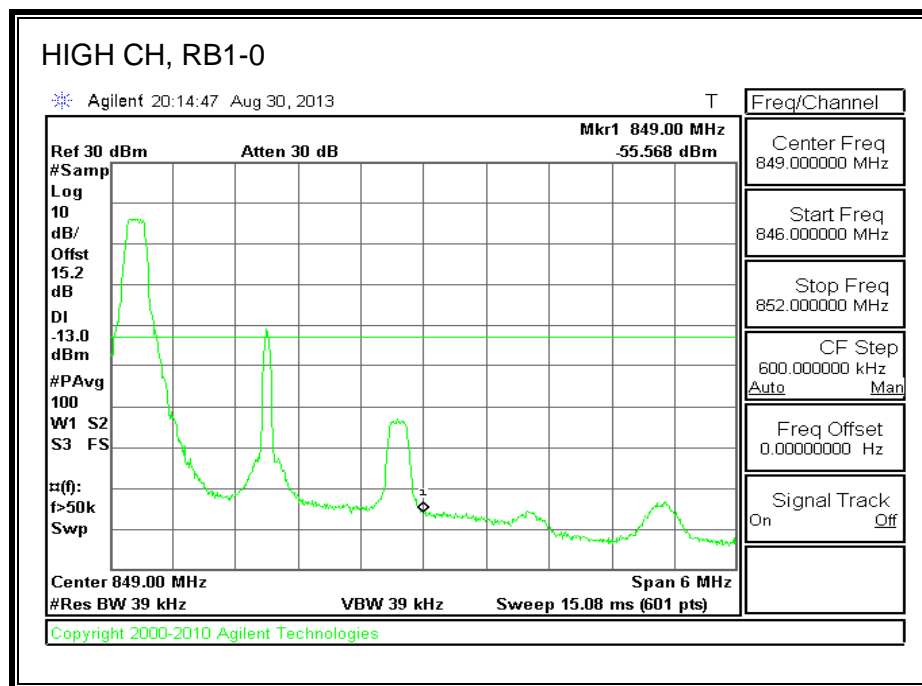
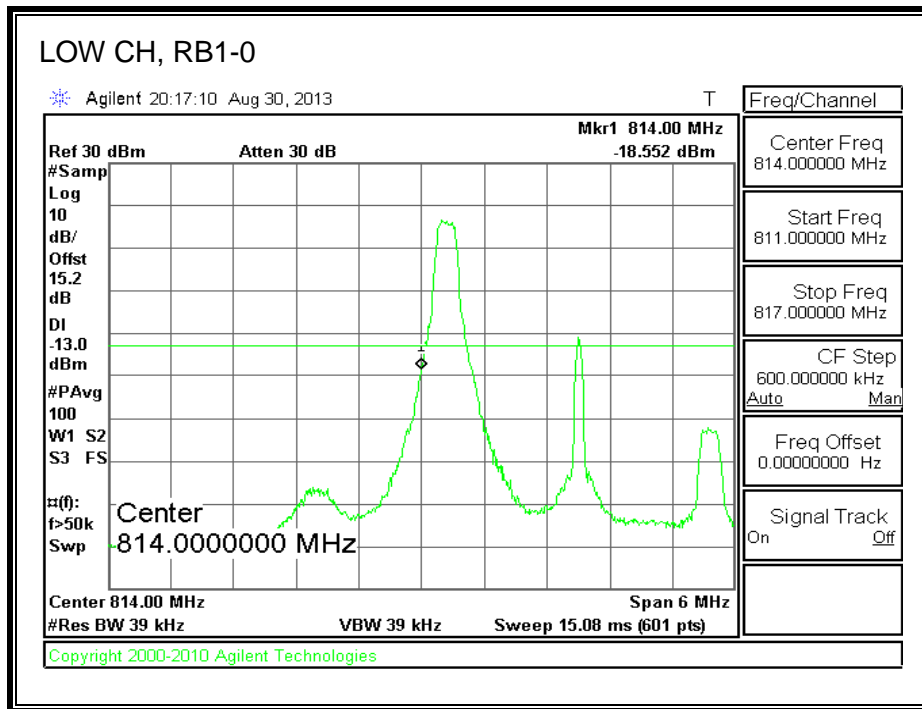


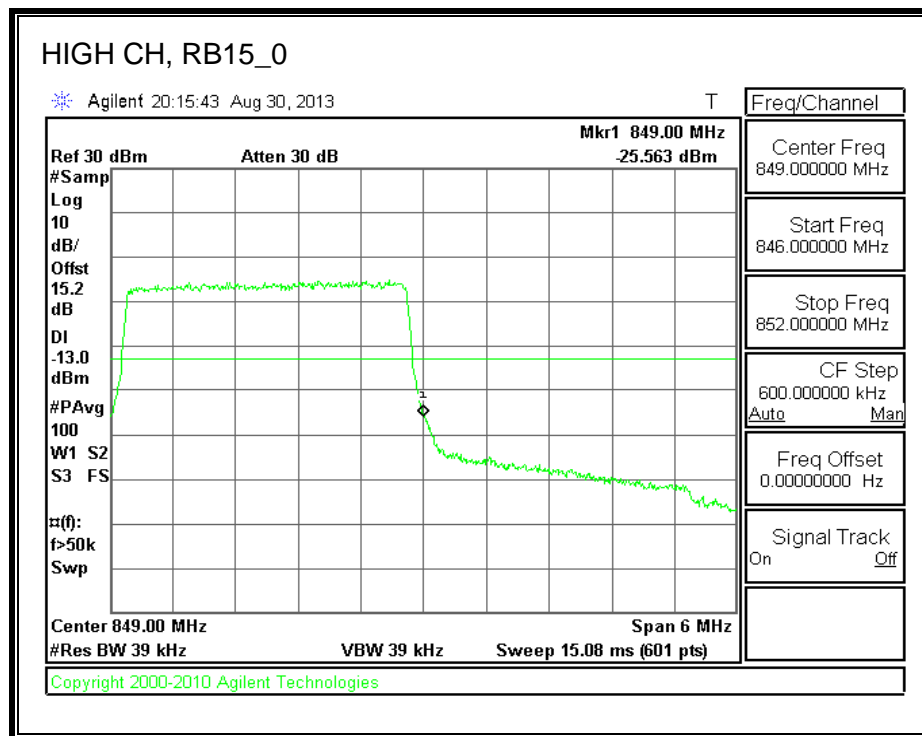
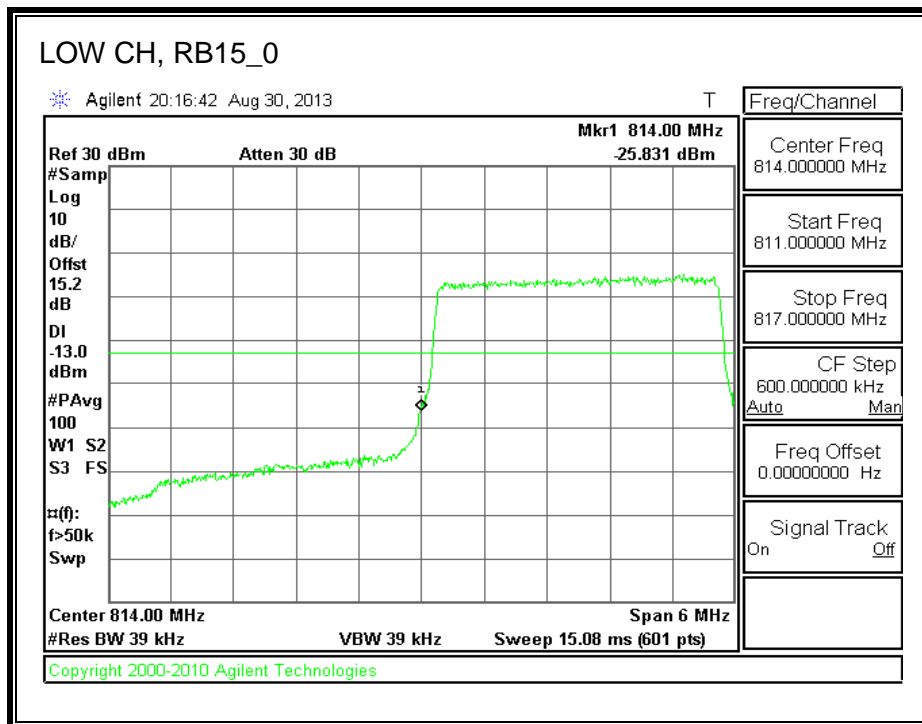




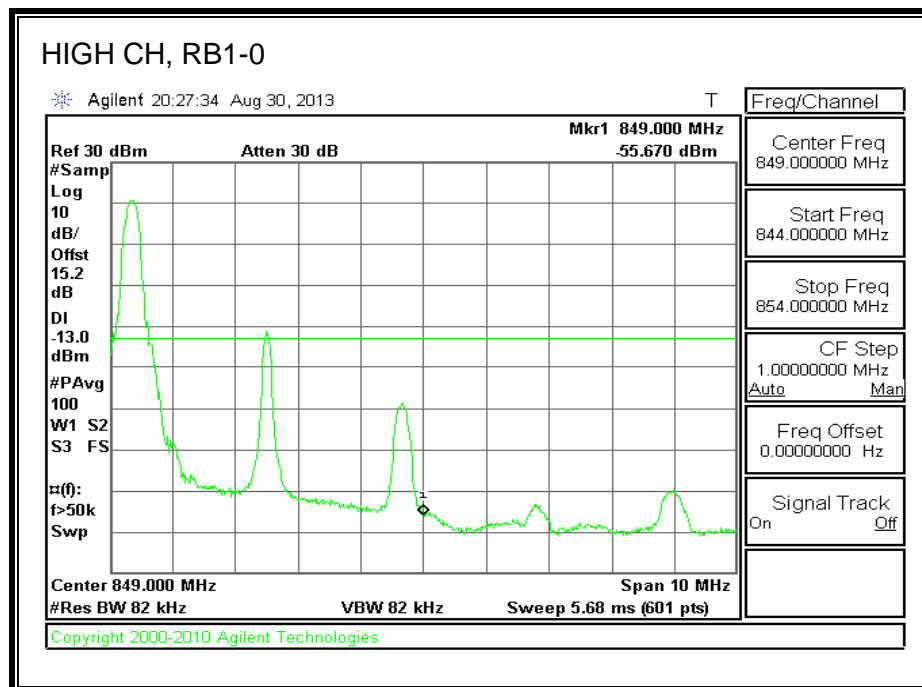
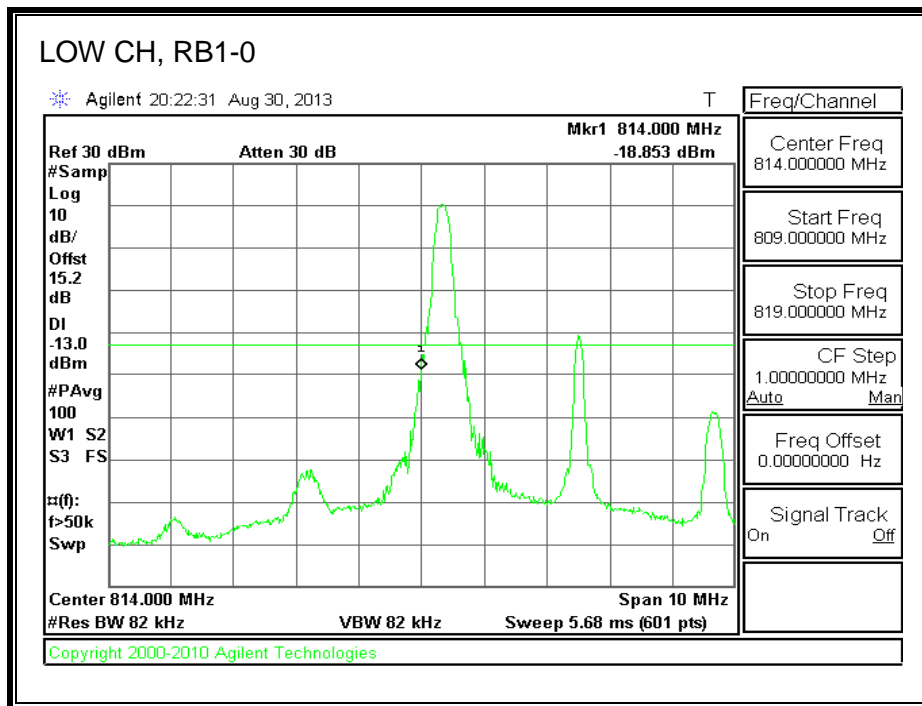


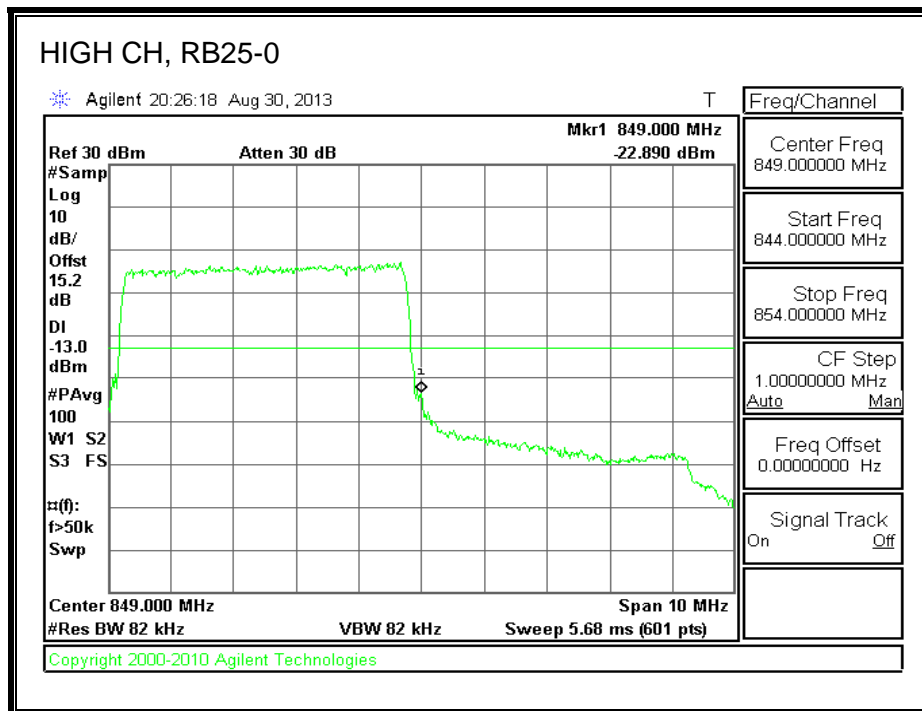
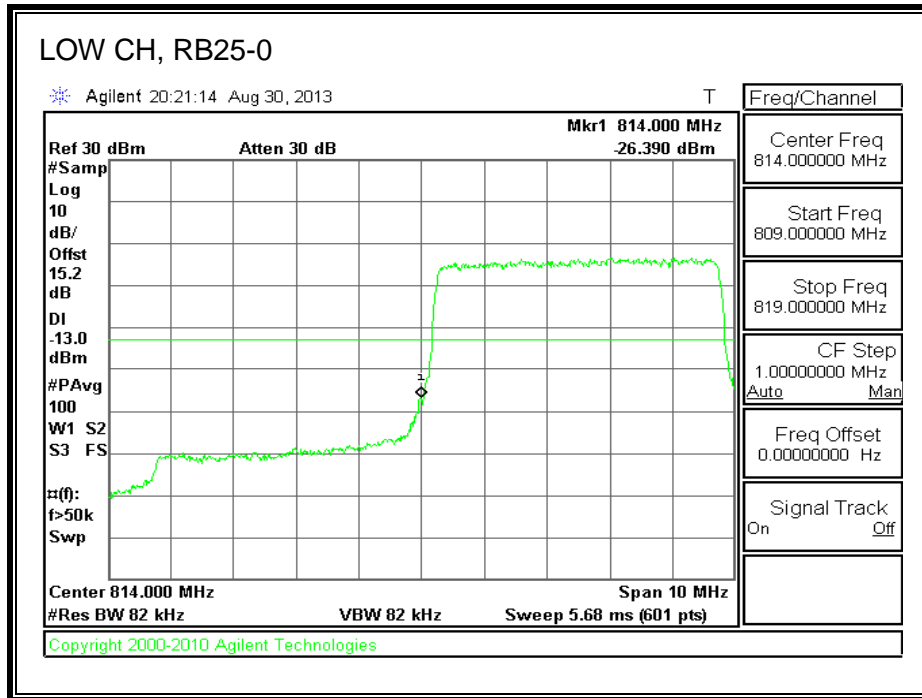
LTE 16QAM Band 26 (3.0 MHz BANDWIDTH)

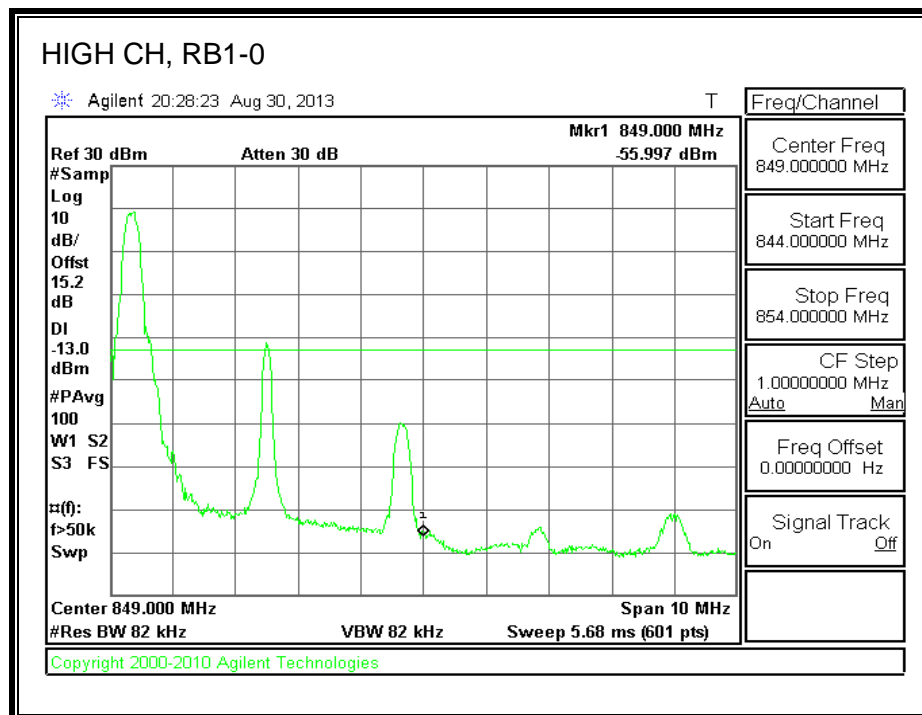
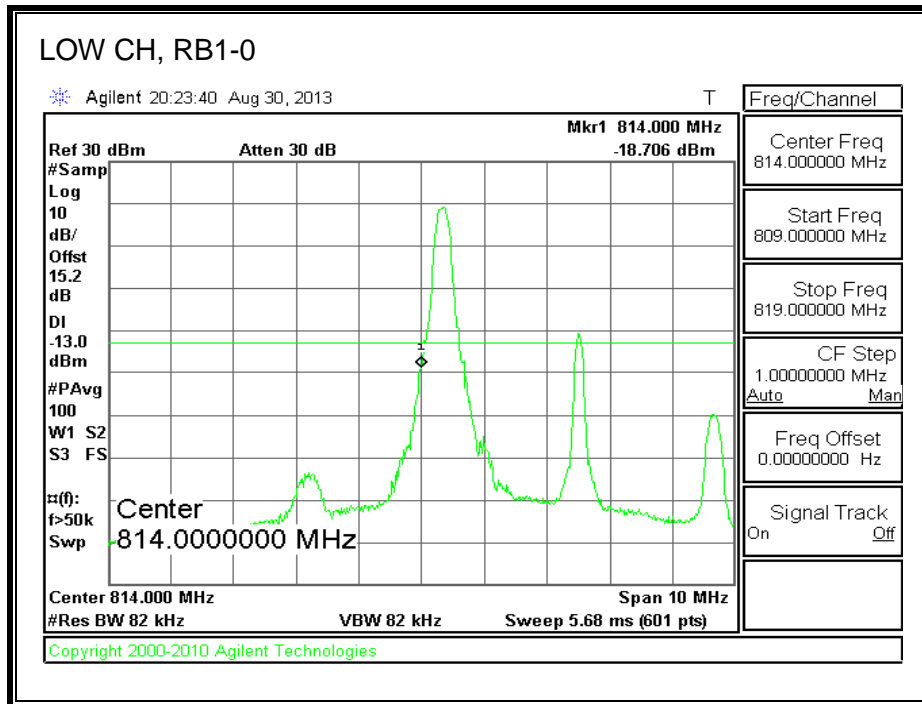


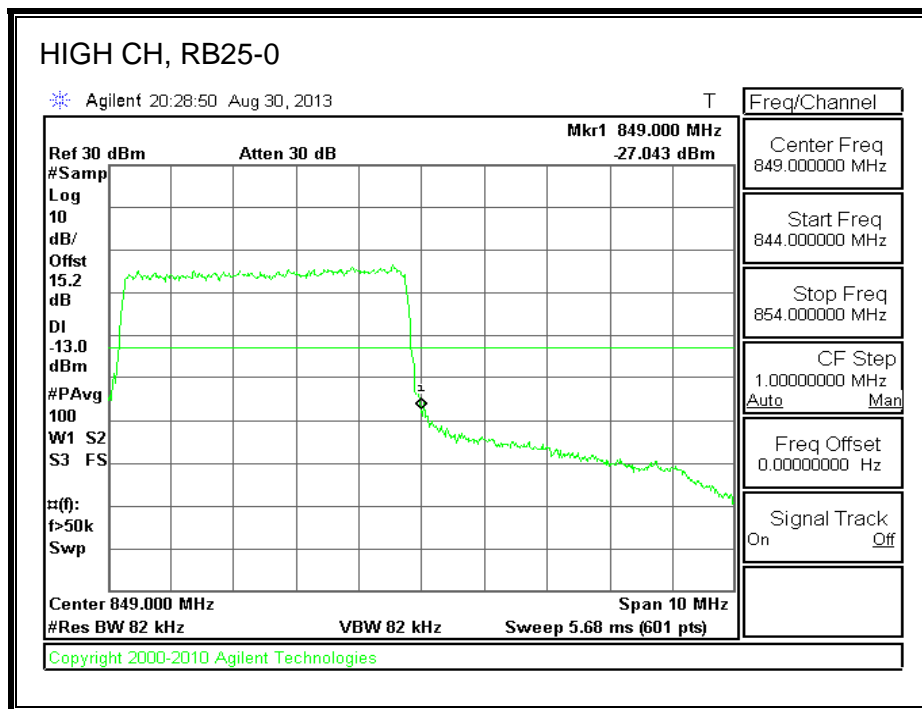
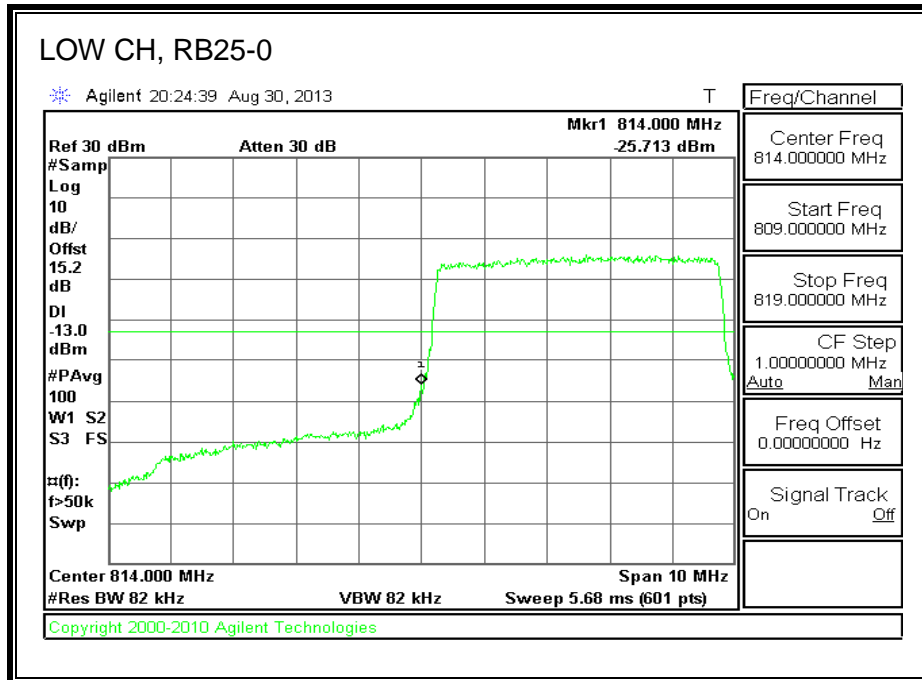


LTE QPSK Band 26 (5 MHz BANDWIDTH)









8.4. EMISSION MASK

RULE PART(S)

FCC: §22.359, §24.238 and § 90.691

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

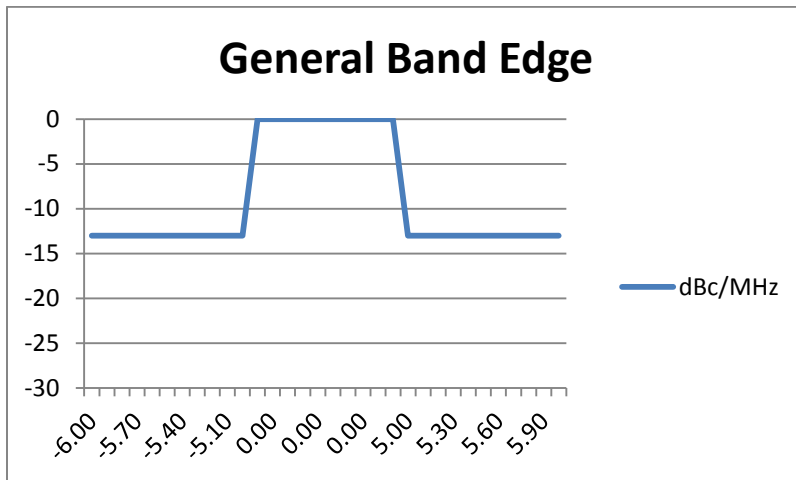
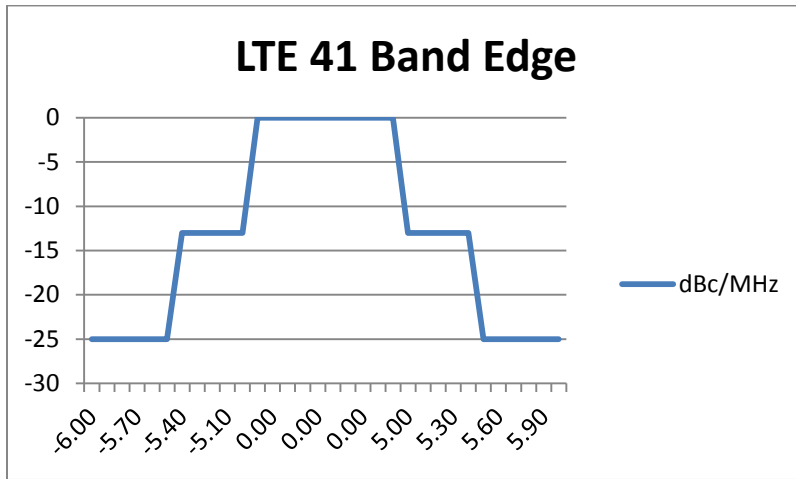
Reference to KDB 971168 D01 v02r01

The transmitter output was connected to an Agilent 8960 or a CMW500 Test Set and configured to operate at maximum power. The band edge emissions were measured at the required operating frequencies in each band on the Spectrum Analyzer.

For each band edge measurement:

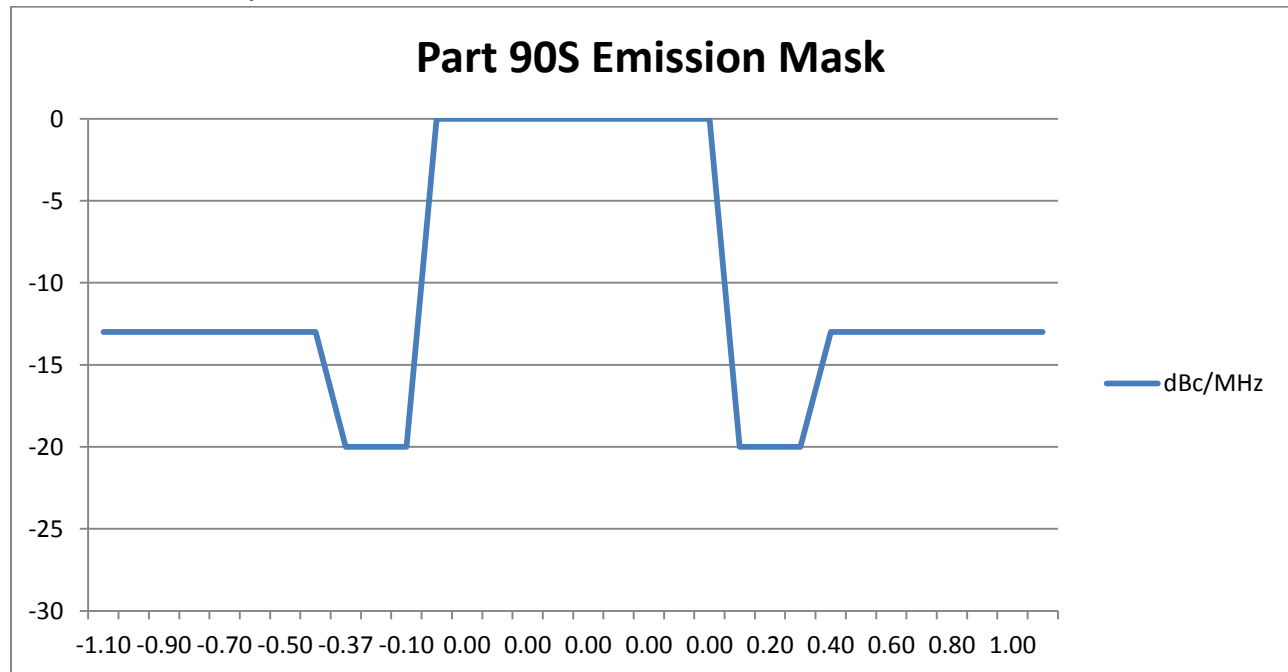
- Set the spectrum analyzer span to include the block edge frequency (824, 849, 1850, 1910 and 1915MHz)
- Set a marker to point the corresponding band edge frequency in each test case.
- Set display line at -13 dBm.
- Set resolution bandwidth to at least 1% of emission bandwidth.
- For Part 27.53 (LTE 41)
- (m)(4) For mobile station, the attenuation factor shall be not less than $43+10\log(P)$ dB at the channel edge and $(55+10\log(P))$ dB at 5.5MHz from the channel edges.
- (m)(6) Compliance with these rules is based on the user of measurement instrumentation employing a resolution bandwidth of 1MHz or greater. However, in the 1MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least 1 percent of the emission bandwidth may be employed.

Edge Masks



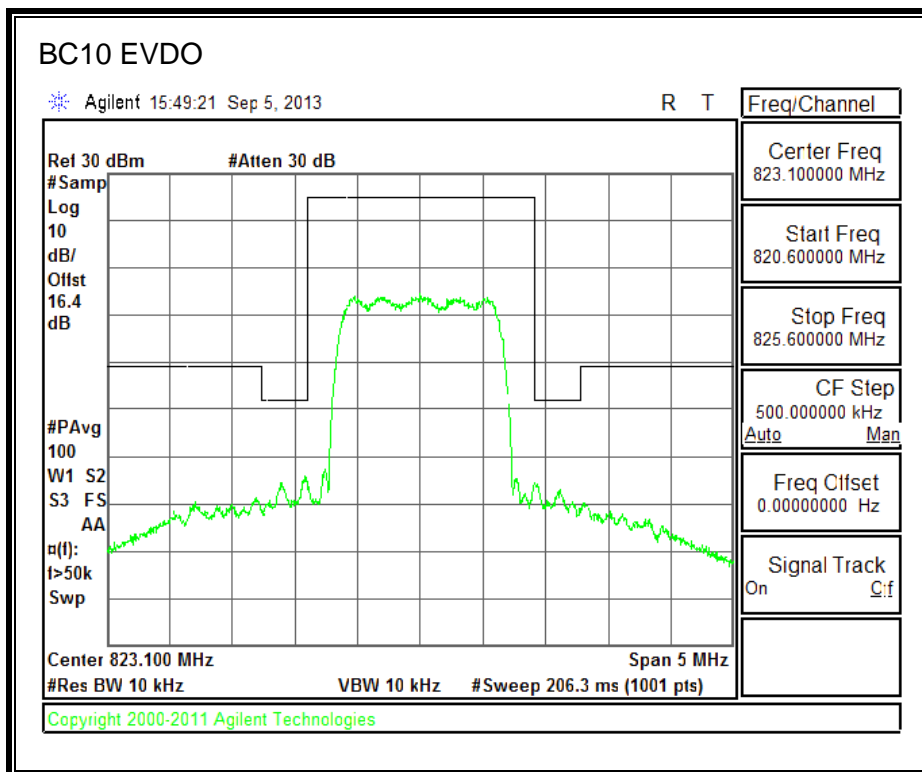
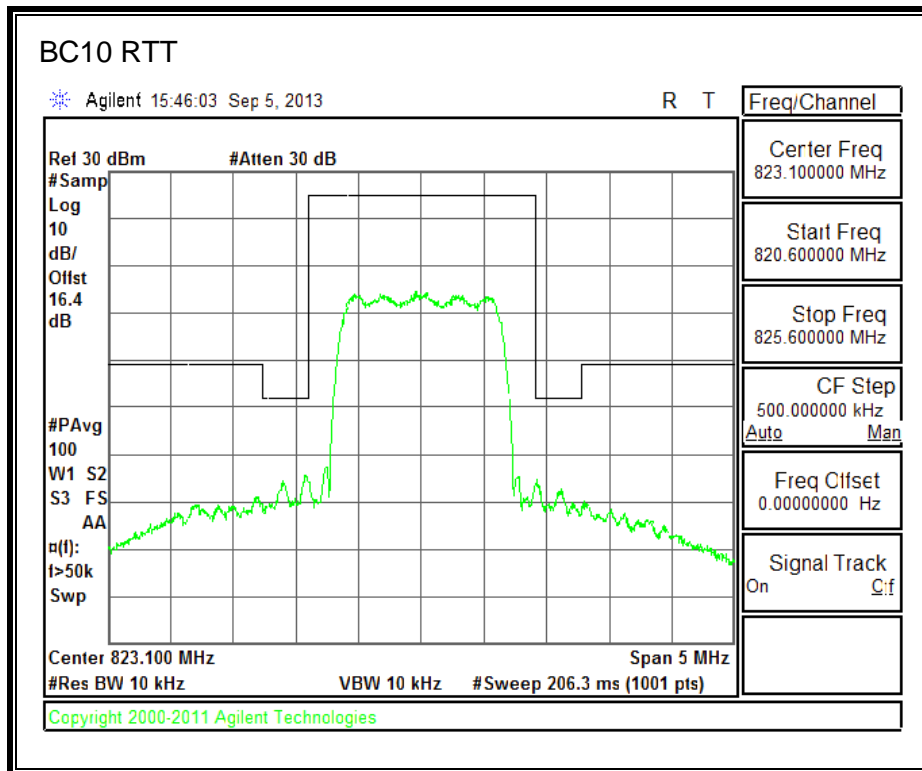
RULE PART(S) for Emission Mask

- FCC: §90.210, and §90.691
- (a)(1) For any frequency removed from the EA licensee’s frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \text{ Log}_{10}(f/6.1)$ decibels or $50 + 10 \text{ Log}_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.
- (a)(2) For any frequency removed from the EA licensee’s frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \text{ Log}_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz. {NOTE: Use 100 kHz reference bandwidth.}



| Part | Frequency Range (MHz) | Band Edge Plot to apply. | Resolution BW /Video BW setting | Channels required | Center Frequency (MHz) | Upper/Lower Frequency(MHz) |
|------|-----------------------|--------------------------|---------------------------------|-------------------|--|---|
| 22H | 824-849 | General | 1% of BW | Low/High | Low = $824 + (BW / 2)$ High = $849 - (BW / 2)$ | Upper = 849 Lower = 824 |
| 24E | 1850-1915 | General | 1% of BW | Low/High | Low = $1850 + (BW / 2)$ High = $1915 - (BW/2)$ | Upper = 1915 Lower = 1850 |
| 27M | 2496-2690 | LTE 41 Mask | 1MHz | Mid | BW = 1.4MHz Fc = 2591 BW = 3MHz Fc = 2592 BW = 5MHz Fc = 2593 BW = 10MHz Fc = 2596 BW = 15MHz Fc = 2599 BW = 20MHz Fc = 2602 | (BW = 1.4MHz Lower = 2590 Upper = 2596) (BW = 3MHz Lower = 2590 Upper = 2596) (BW = 5MHz Lower = 2590 Upper = 2596) (BW = 10MHz Lower = 2590 Upper = 2602) (BW = 15MHz Lower = 2590 Upper = 2608) (BW = 20MHz Lower = 2590 Upper = 2614) |
| 27L | 1710-1755 | General | 1% BW | Low/High | Low = $1710 + (BW/2)$ High = $1755 - (BW/2)$ | Upper = 1755 Lower = 1710 |
| 90S | 817-824 | Part 90S Mask | 10KHz-30KHz | Low | BW = 1.4MHz Fc = 823.3 BW = 3MHz Fc = 822.5 BW = 5MHz Fc = 821.5 BW = 10MHz Fc = 819* BW = 15MHz Fc = 824.5* BW = 20MHz Fc = 827* | Lower = 817 Upper = 824 *Note: Must consult PM or PL for details of this testing. |

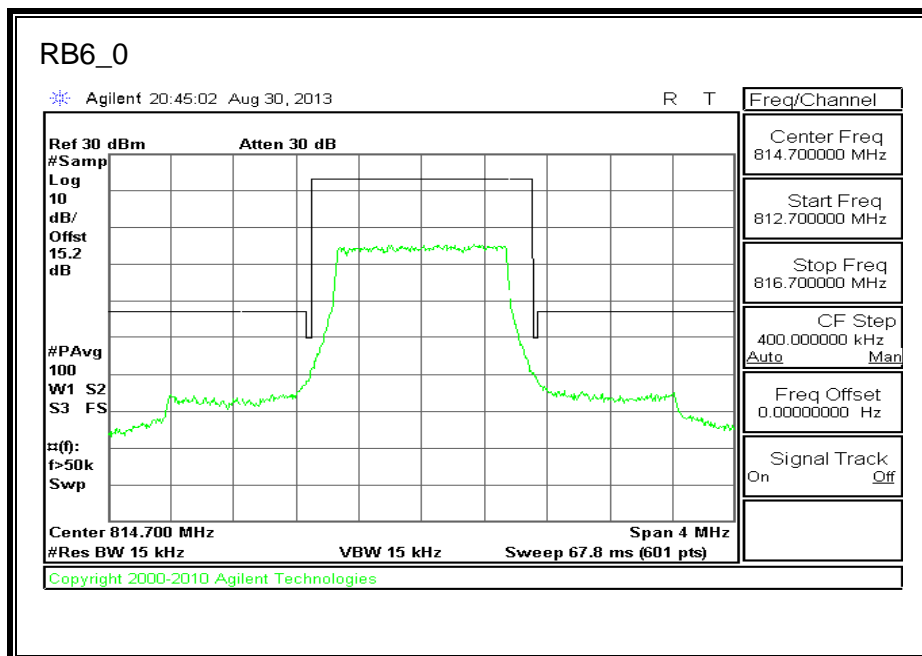
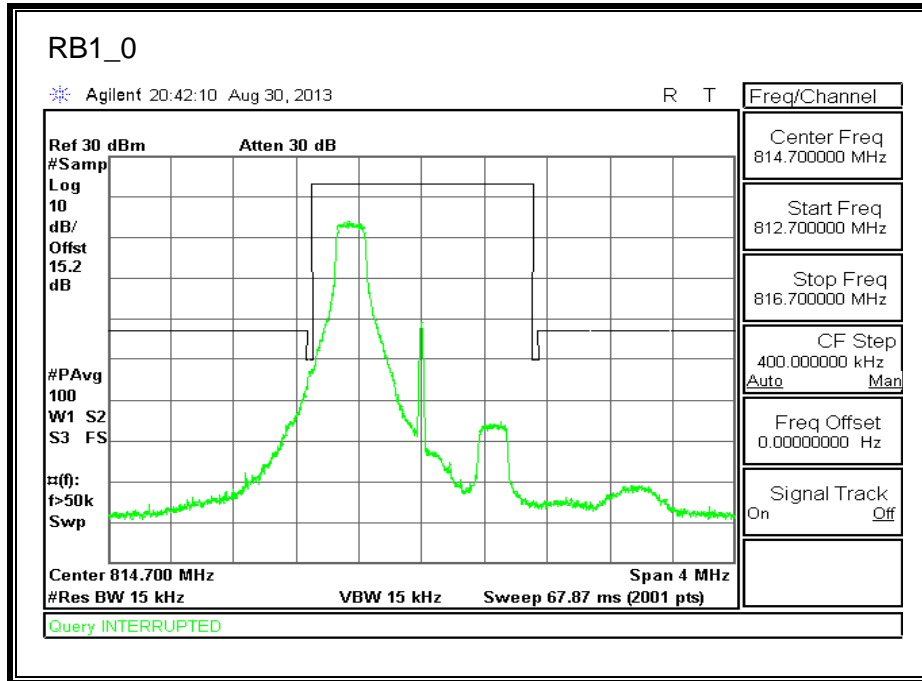
8.4.1. CDMA2000



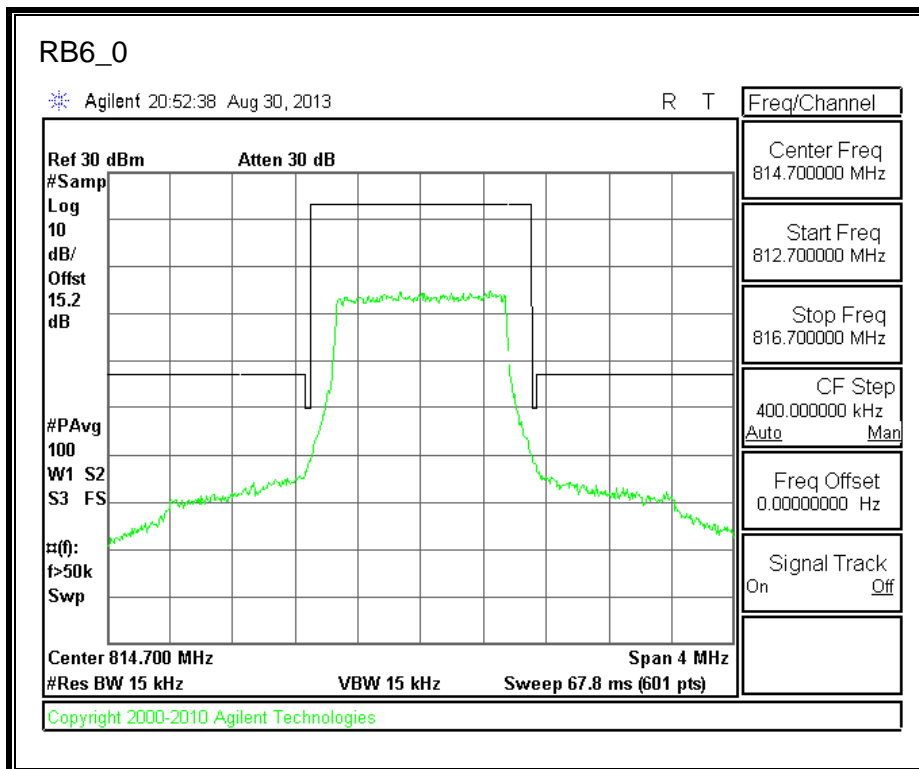
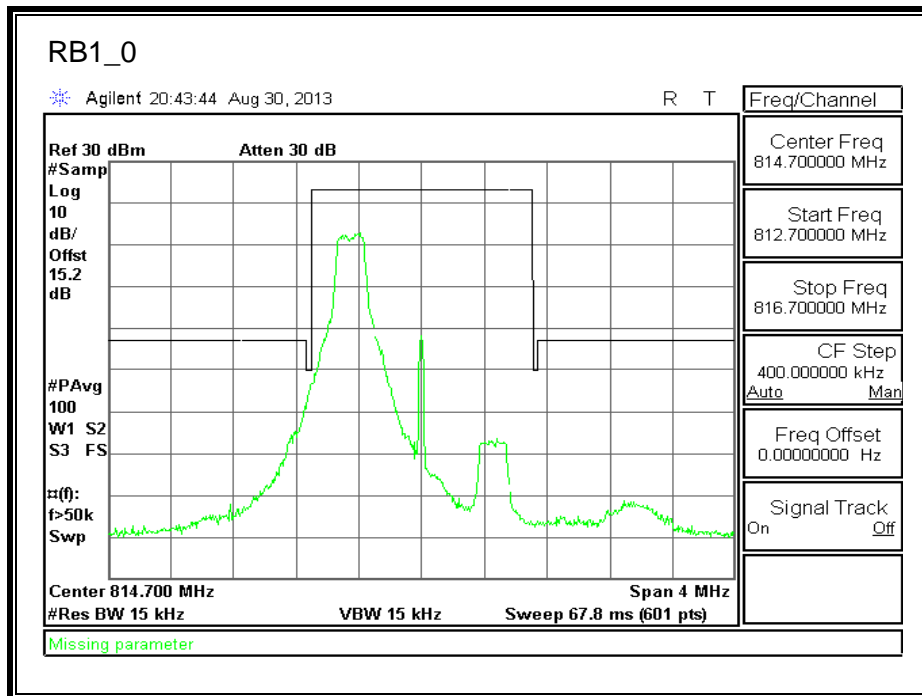
8.4.2. LTE BAND 26

1.4 MHz

QPSK

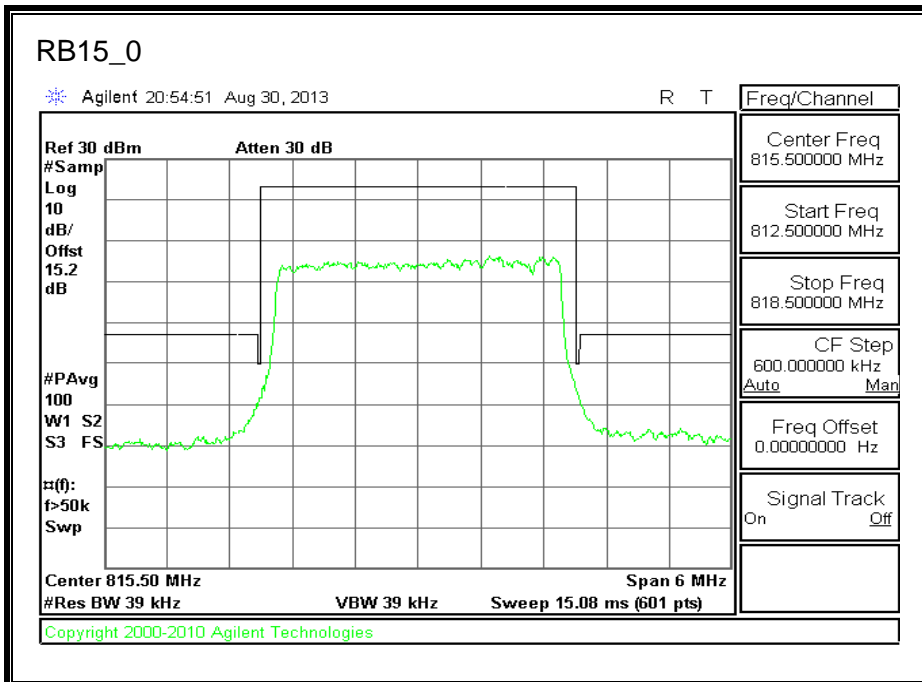
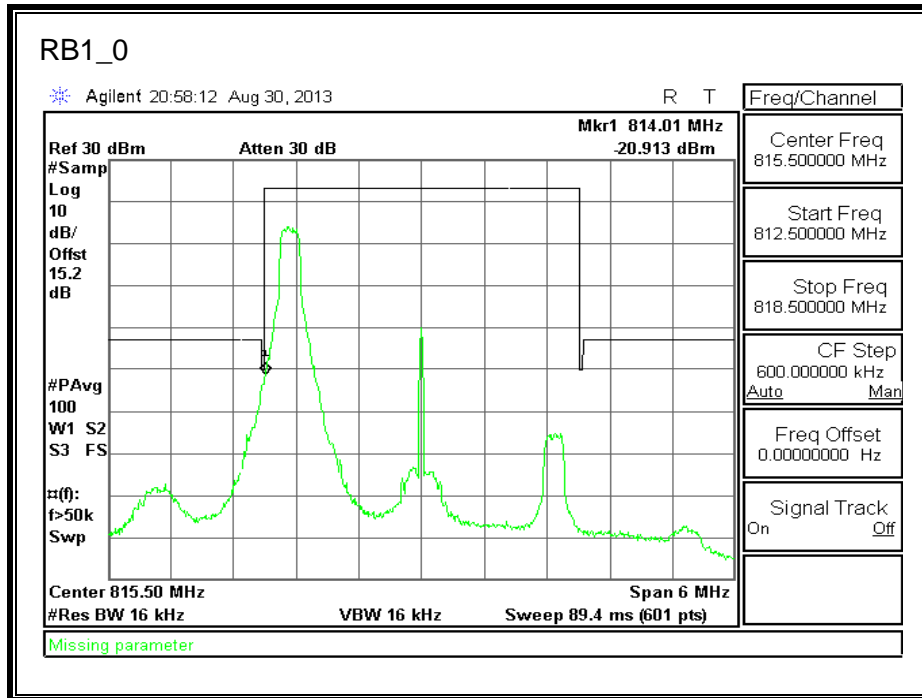


16QAM

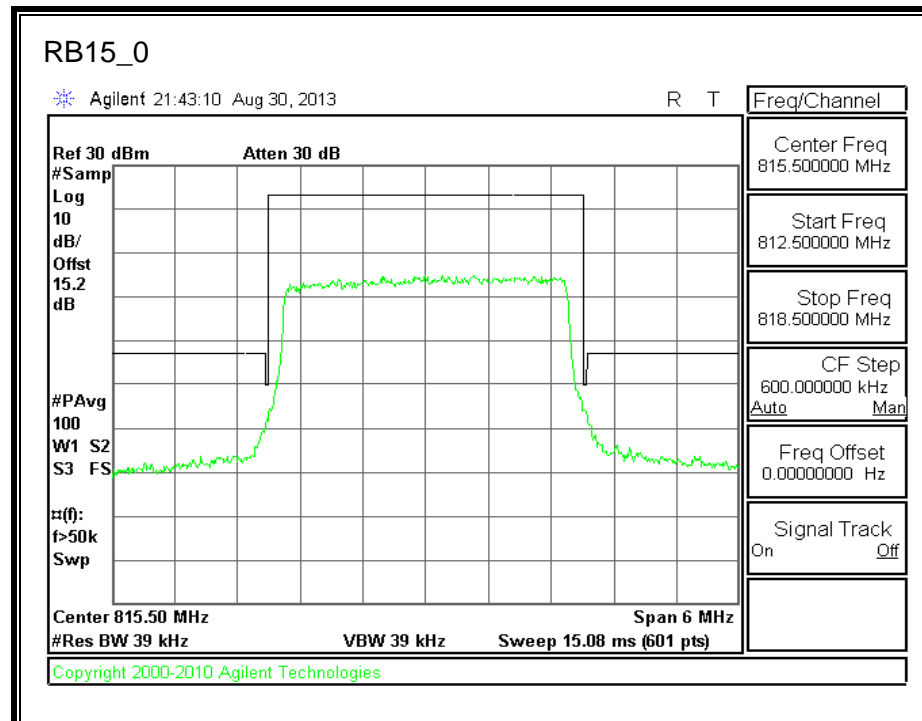
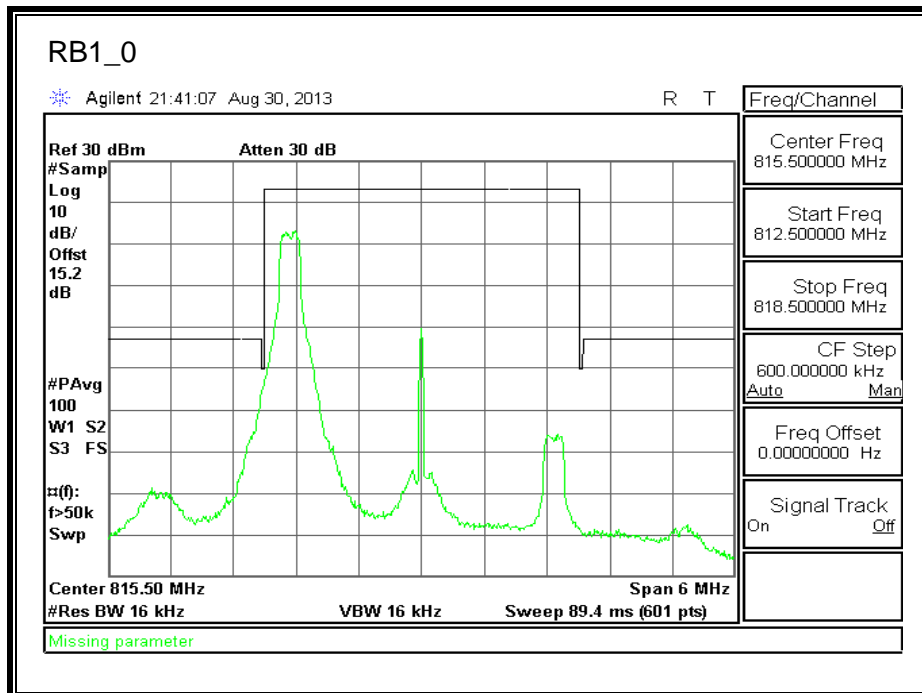


3 MHz

QPSK

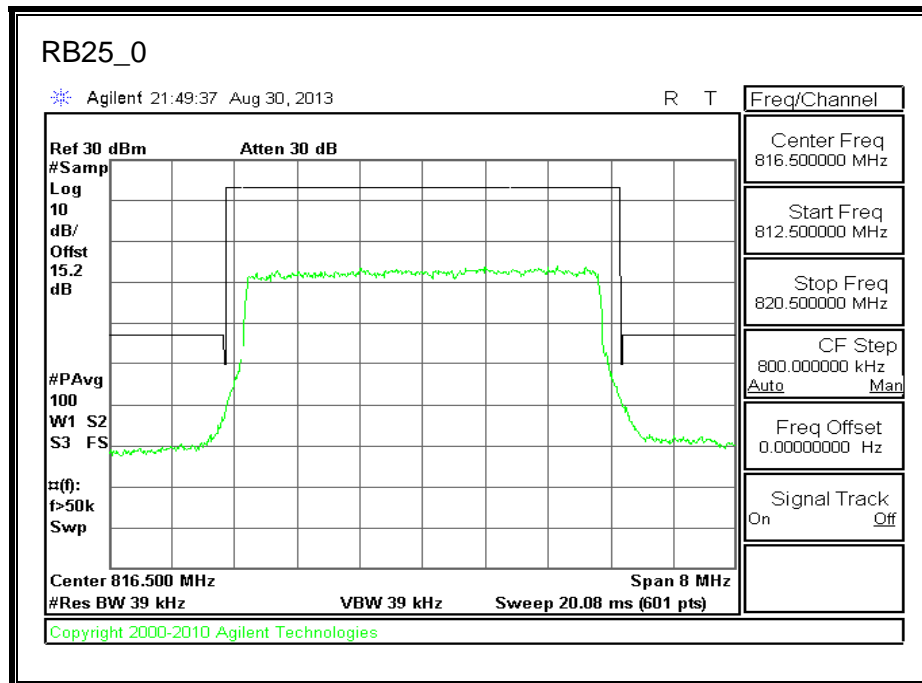
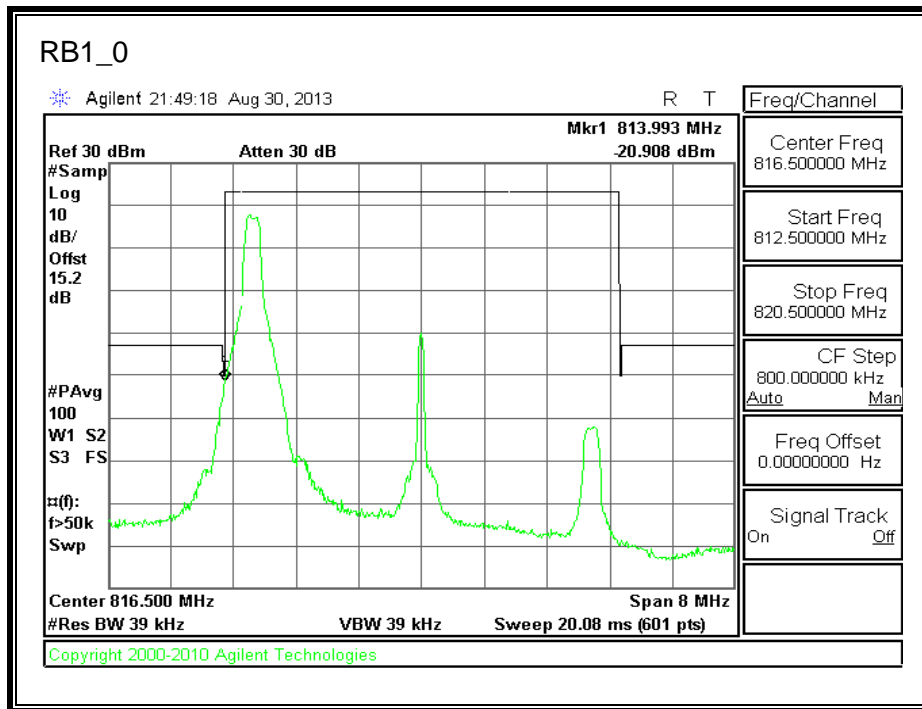


16QAM

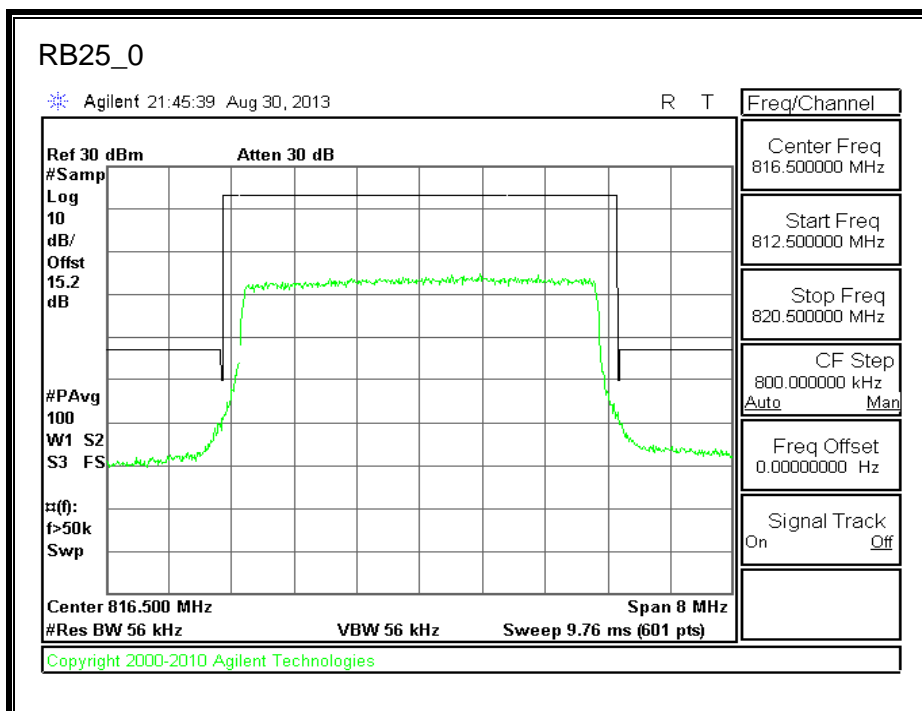
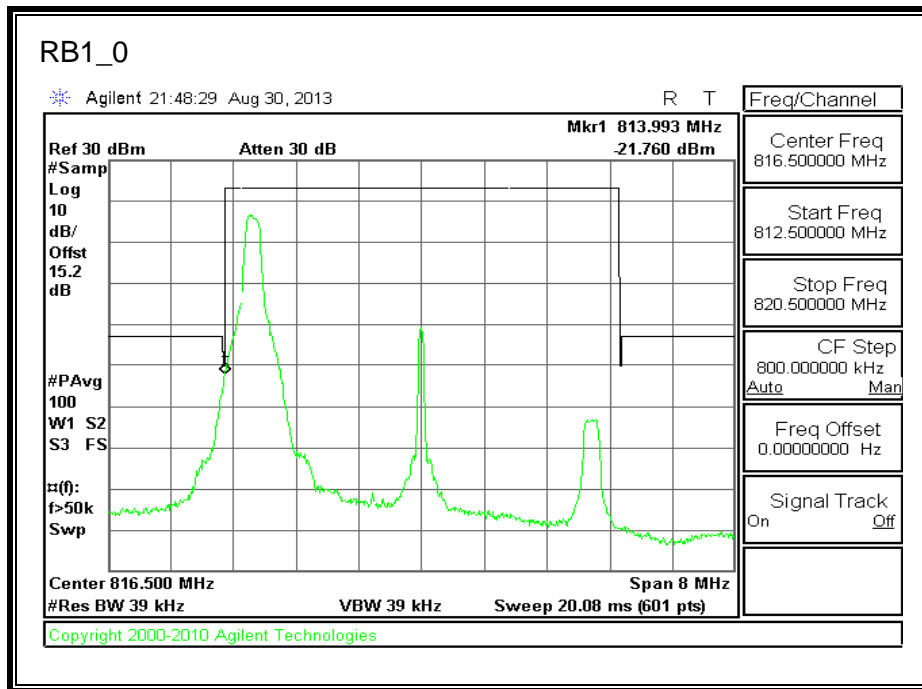


5 MHz

QPSK



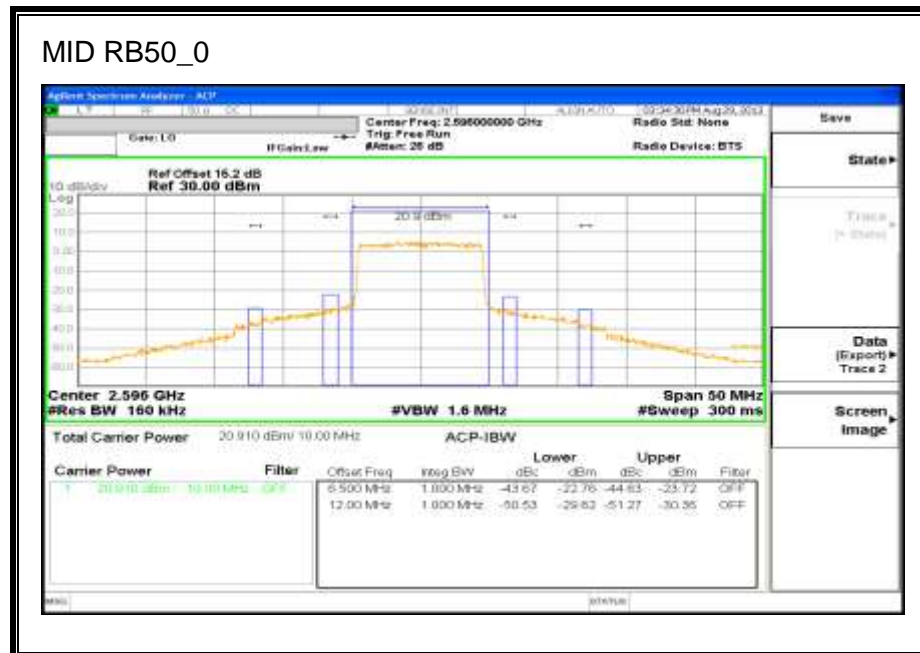
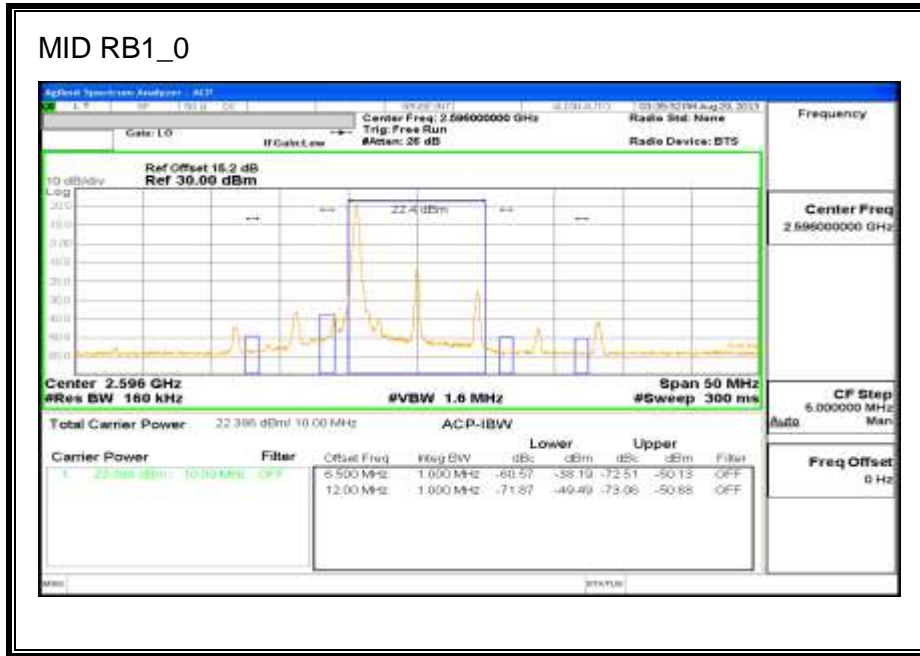
16QAM



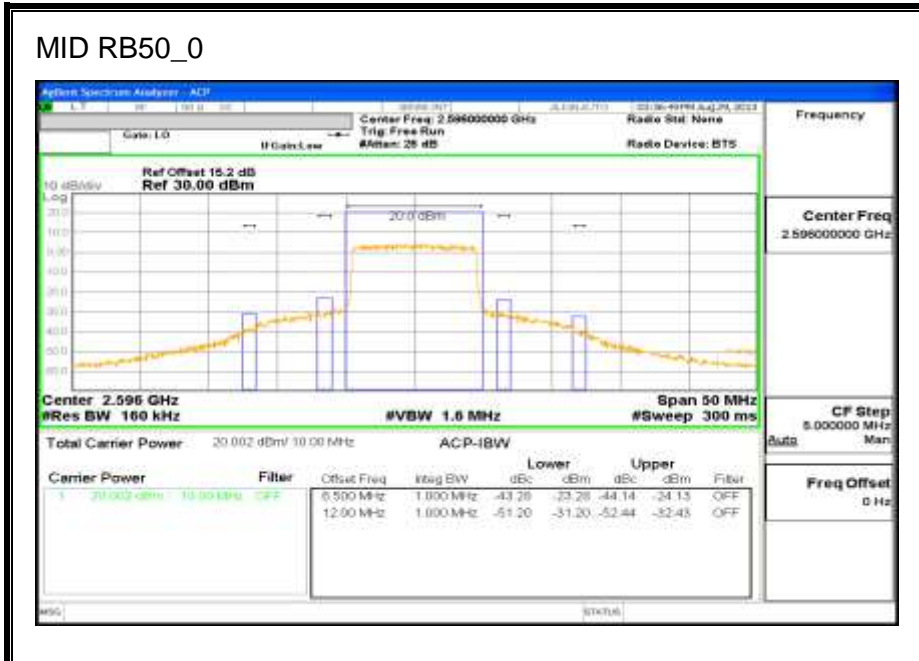
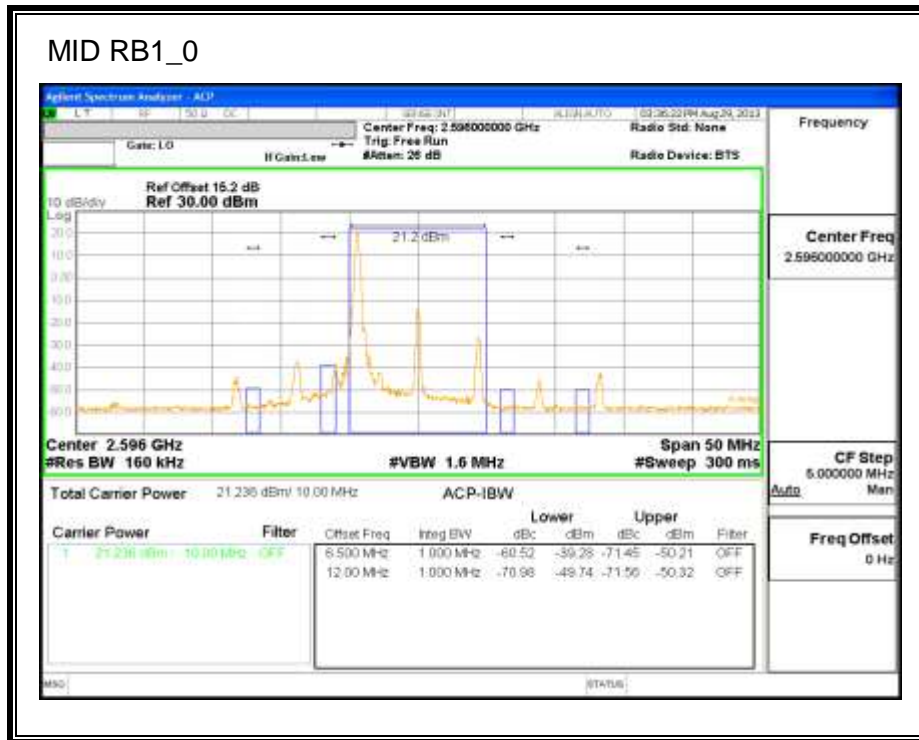
8.4.3. LTE BAND 41

10MHz

QPSK

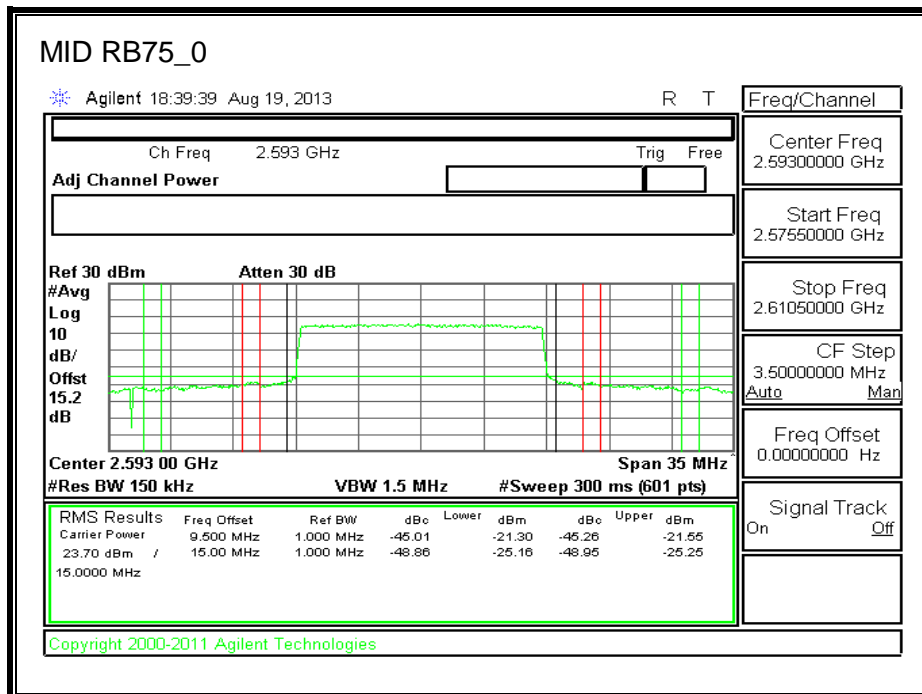
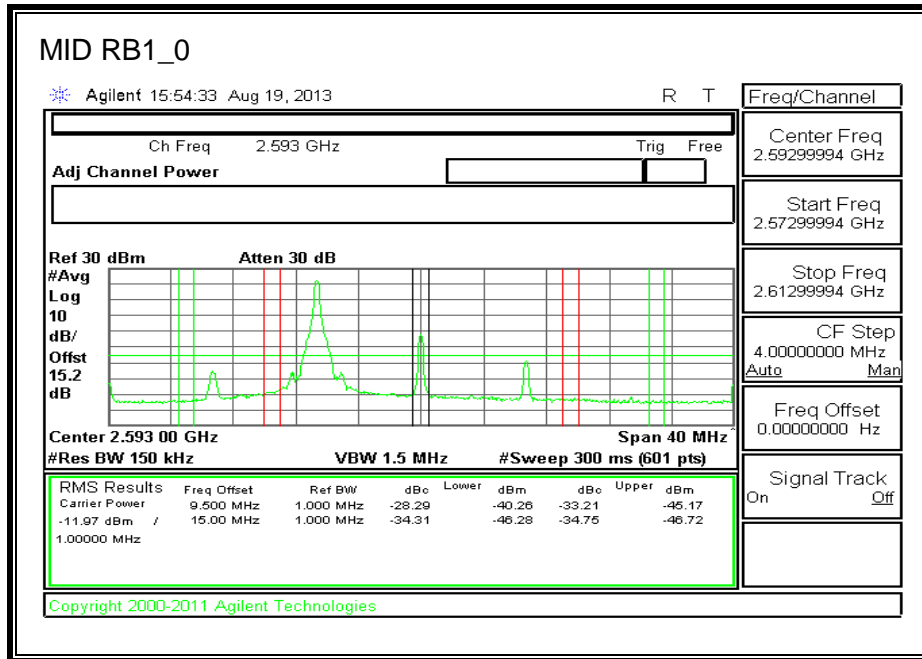


16QAM

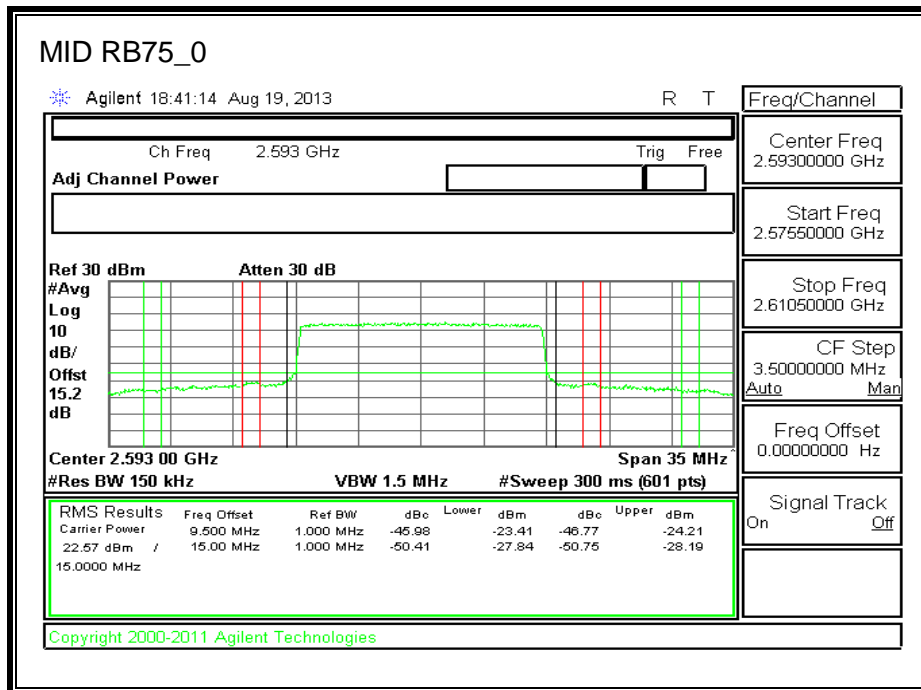
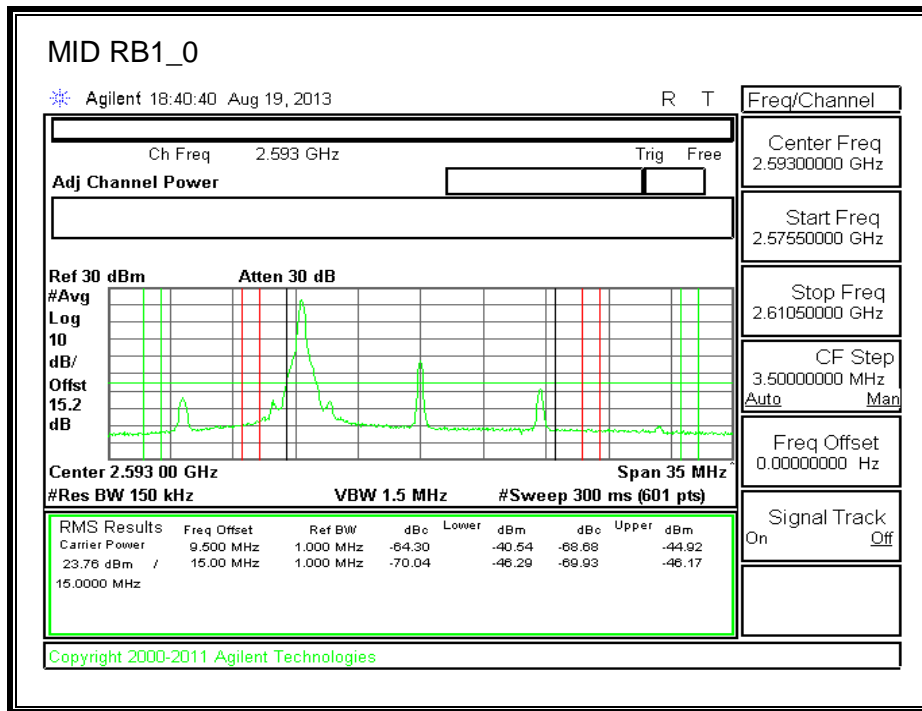


15MHz

QPSK

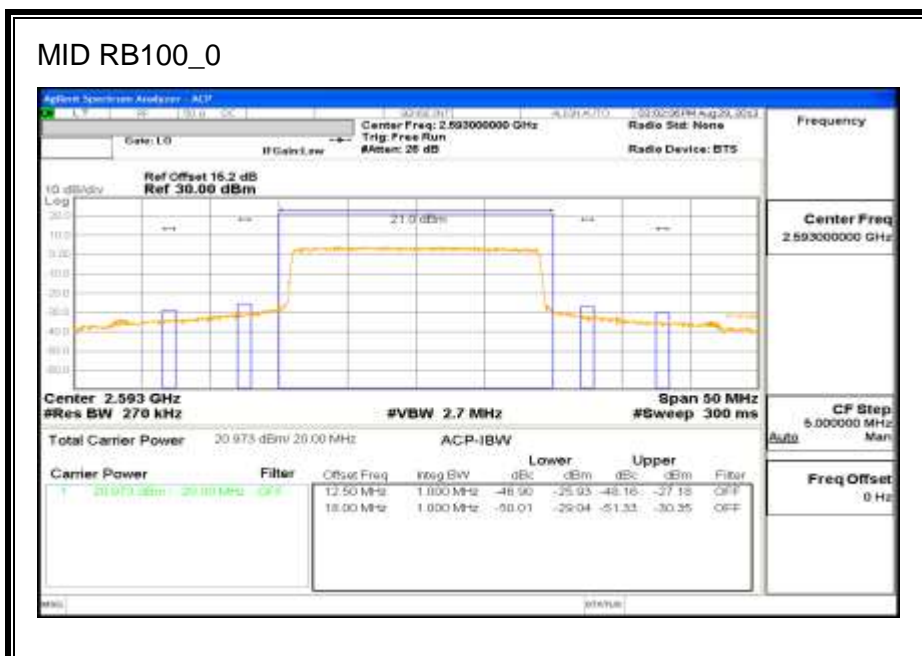
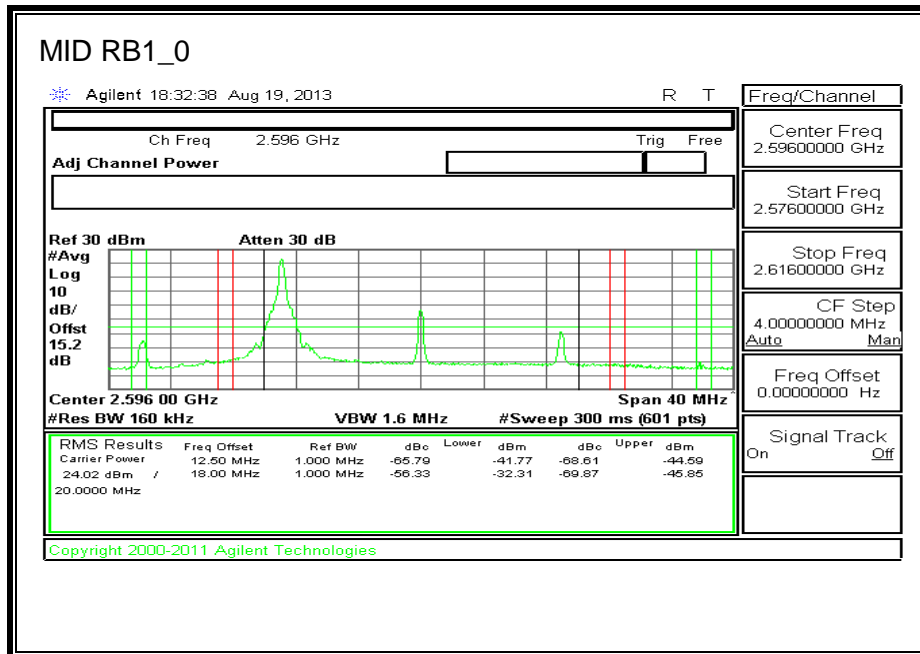


16QAM

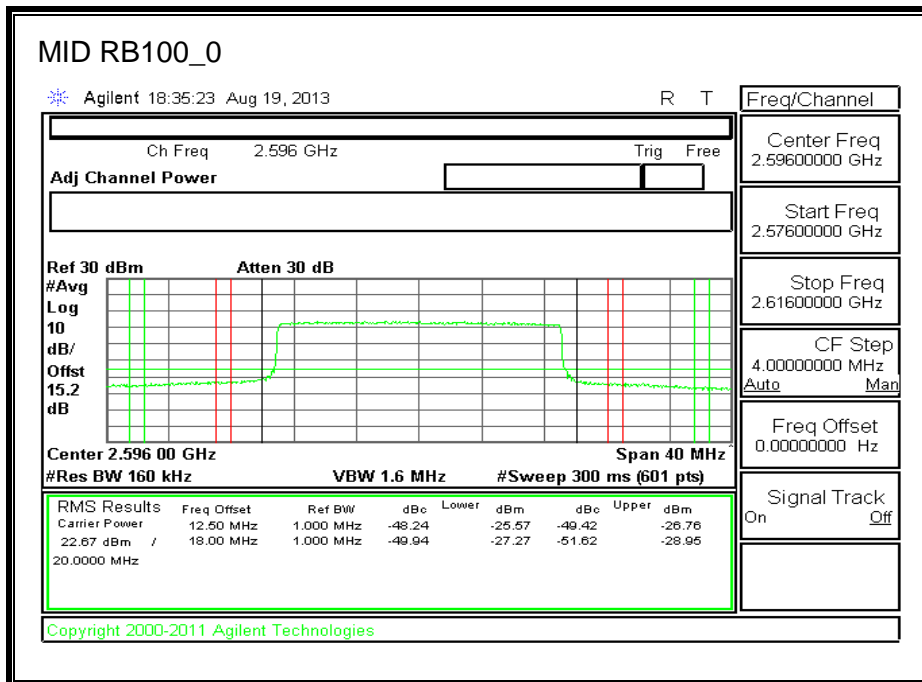
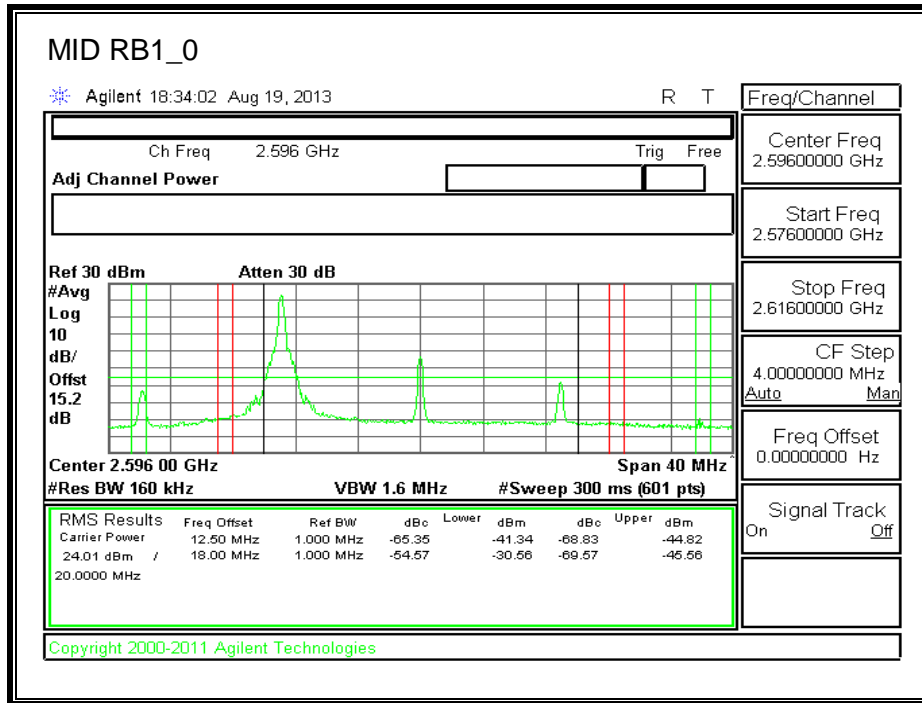


20MHz

QPSK



16QAM



8.5. OUT OF BAND EMISSIONS

RULE PART(S)

FCC: §2.1051, §22.901, §22.917, §24.238, §27.53

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

Reference to KDB 971168 D01 v02r01

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 display line at -25 dBm for LTE band 41
- Set RBW & VBW to 1MHz for the measurements.

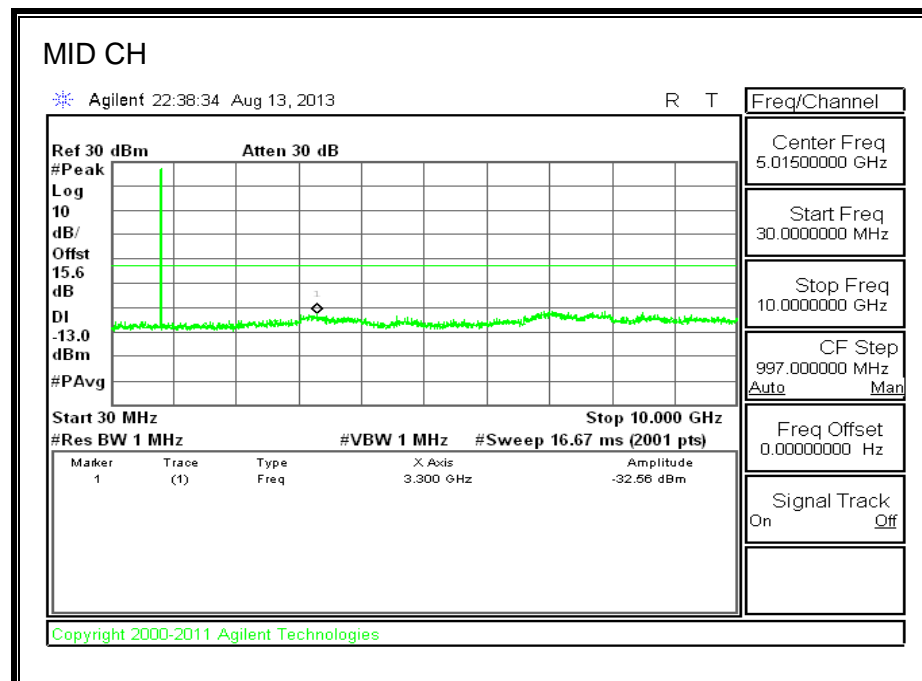
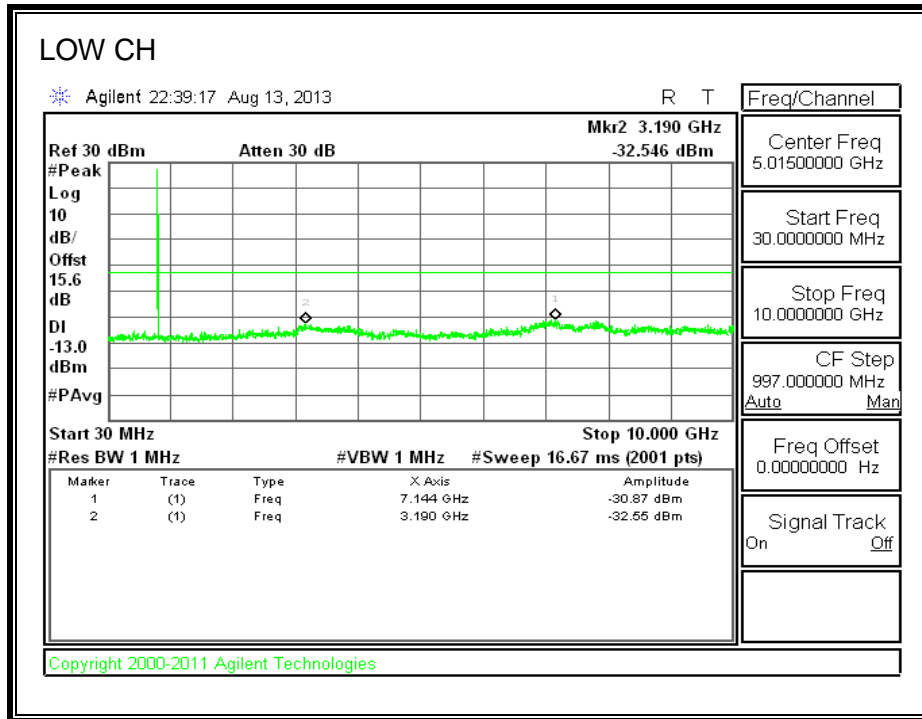
MODES TESTED

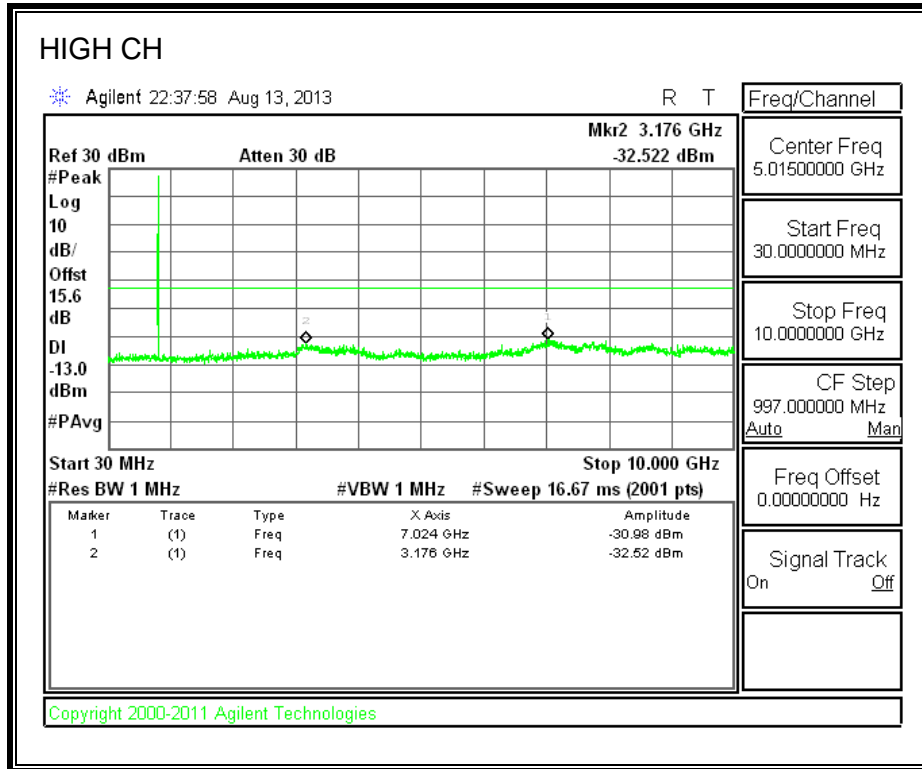
RESULTS

- CDMA2000 1xRTT BC10, BC0, BC1
- CDMA2000 EVDO BC10, BC0, BC1
- LTE Band 25
- LTE Band 26
- LTE Band 41

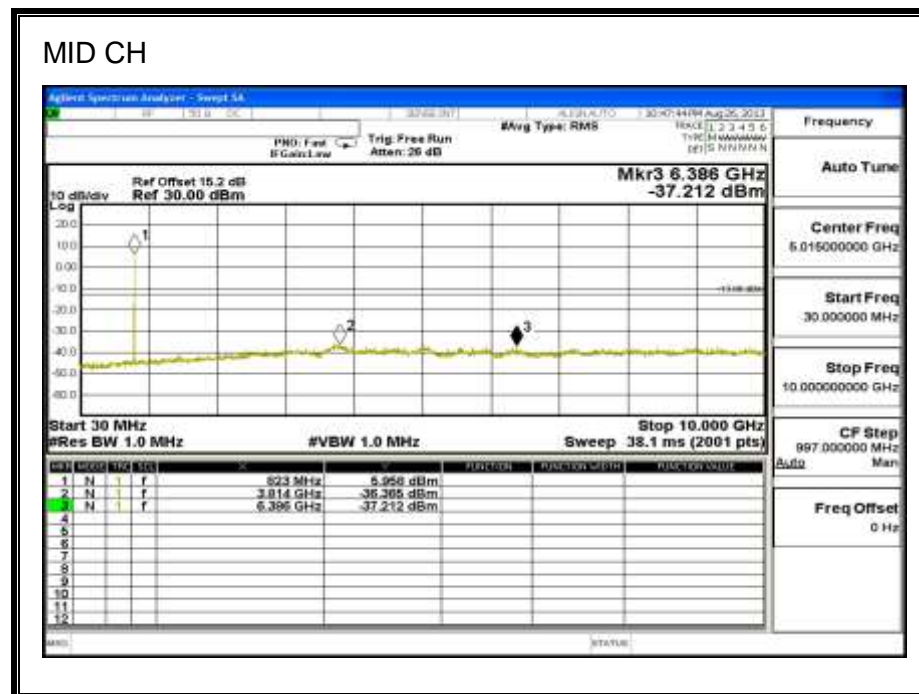
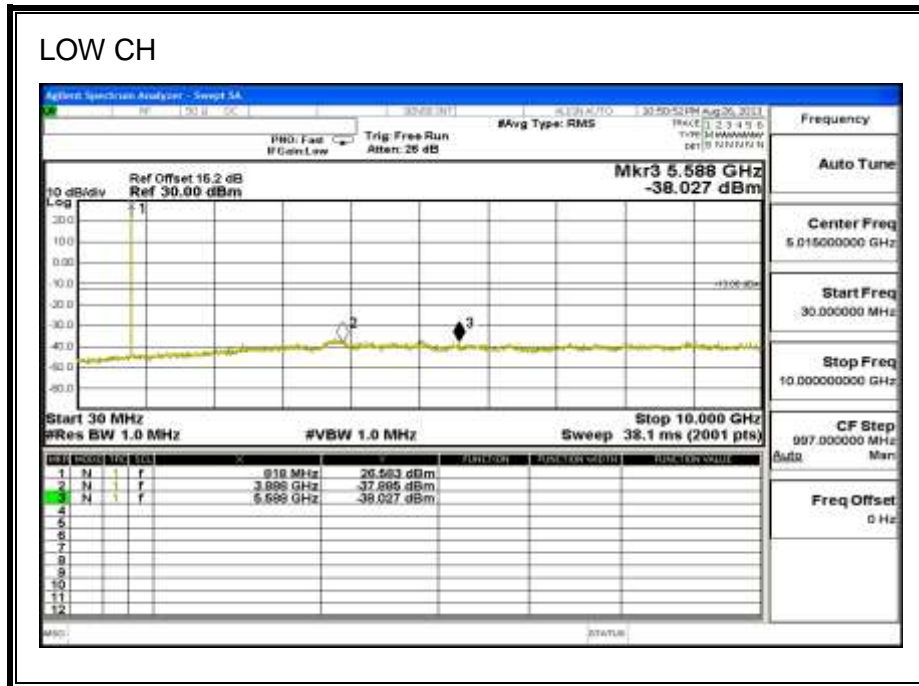
8.5.2. CDMA, BC10

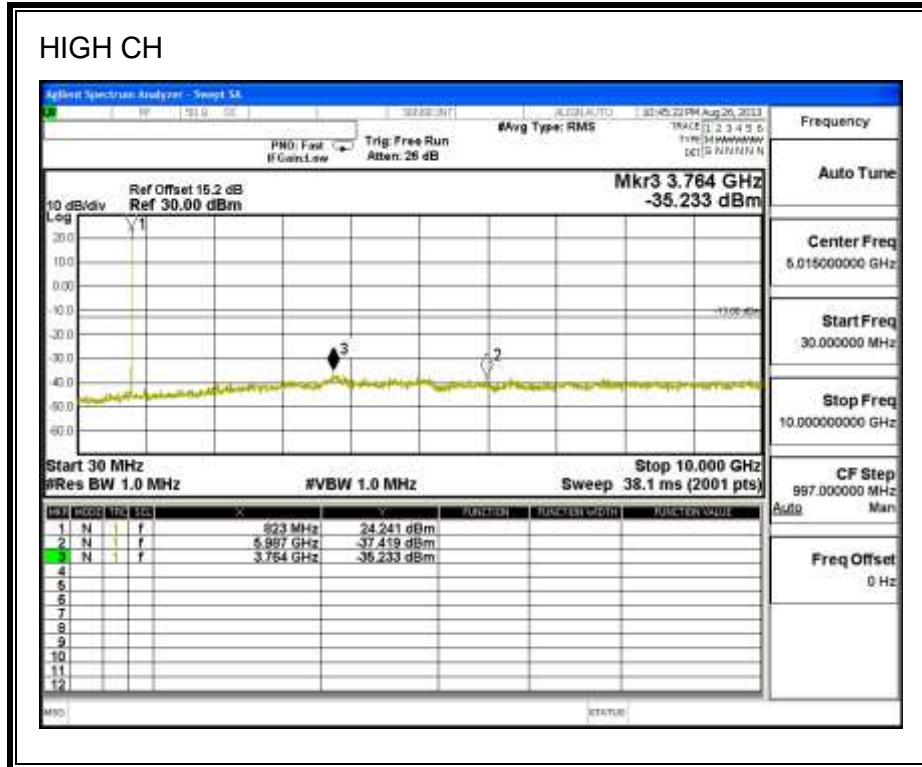
1xRTT





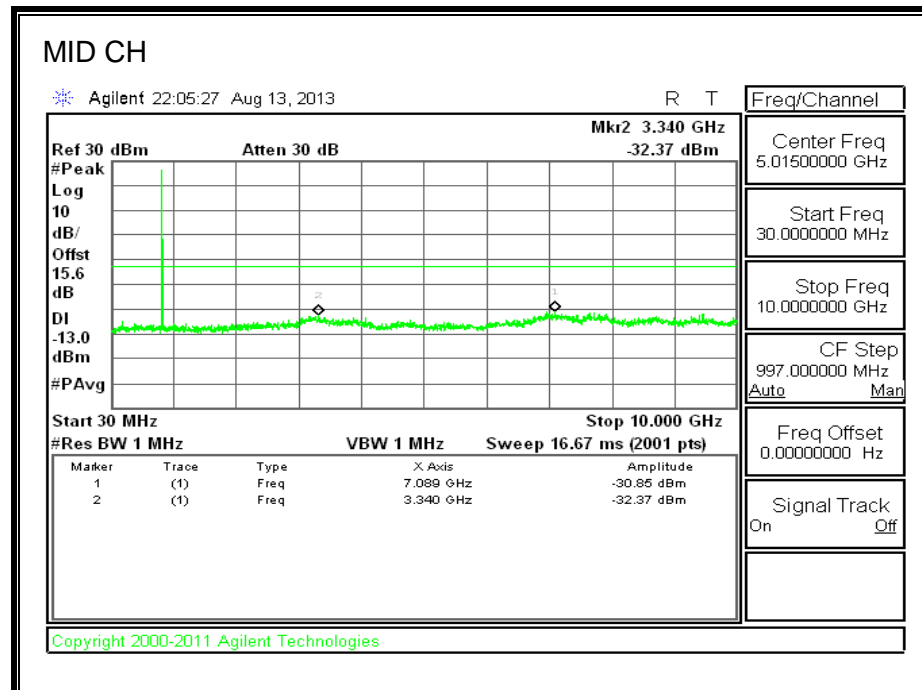
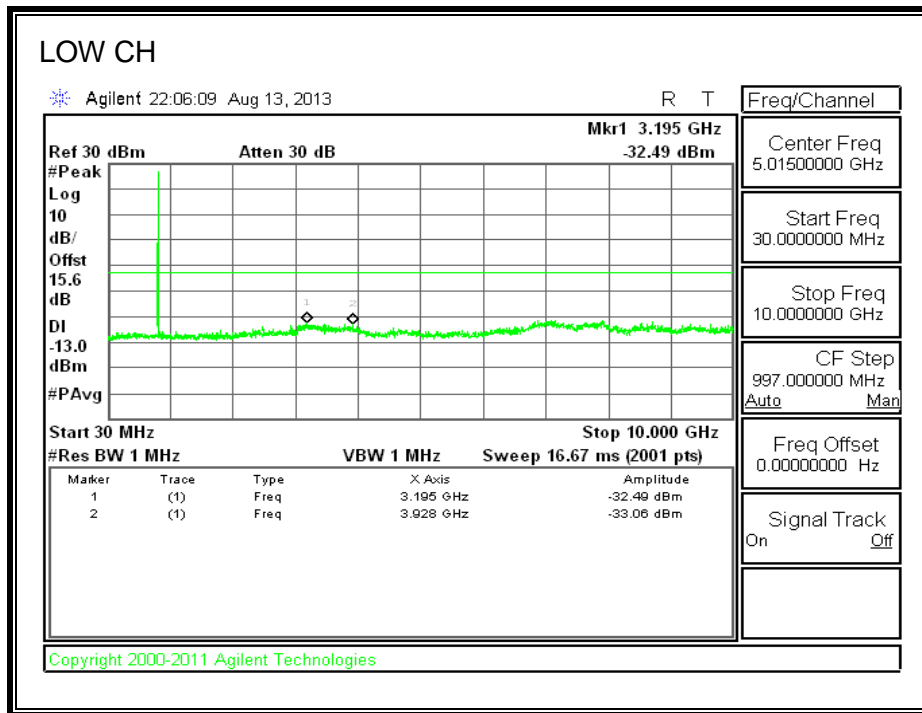
EVDO, BC10

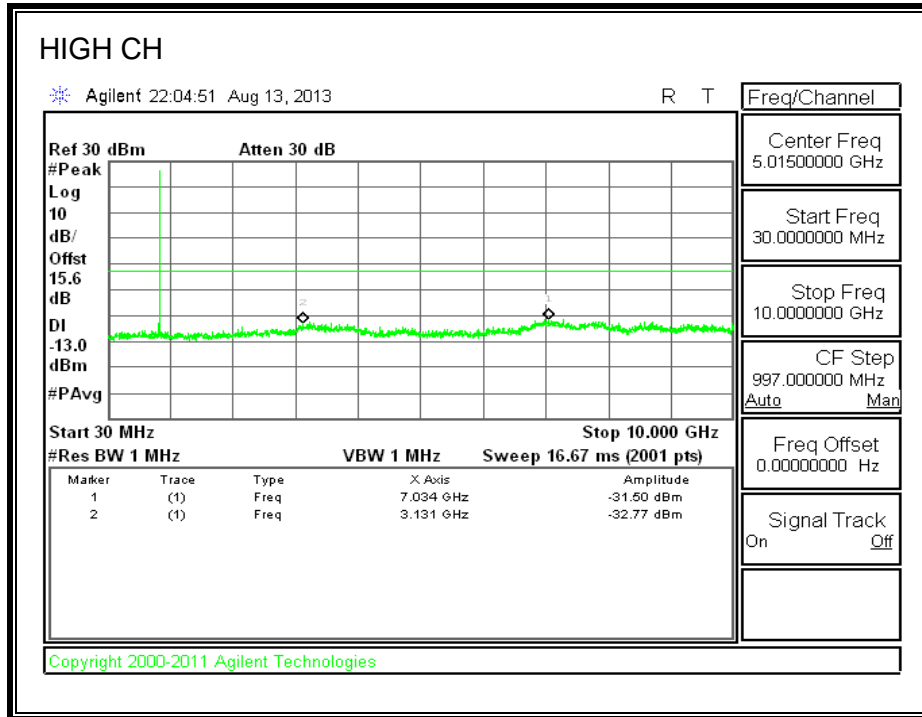




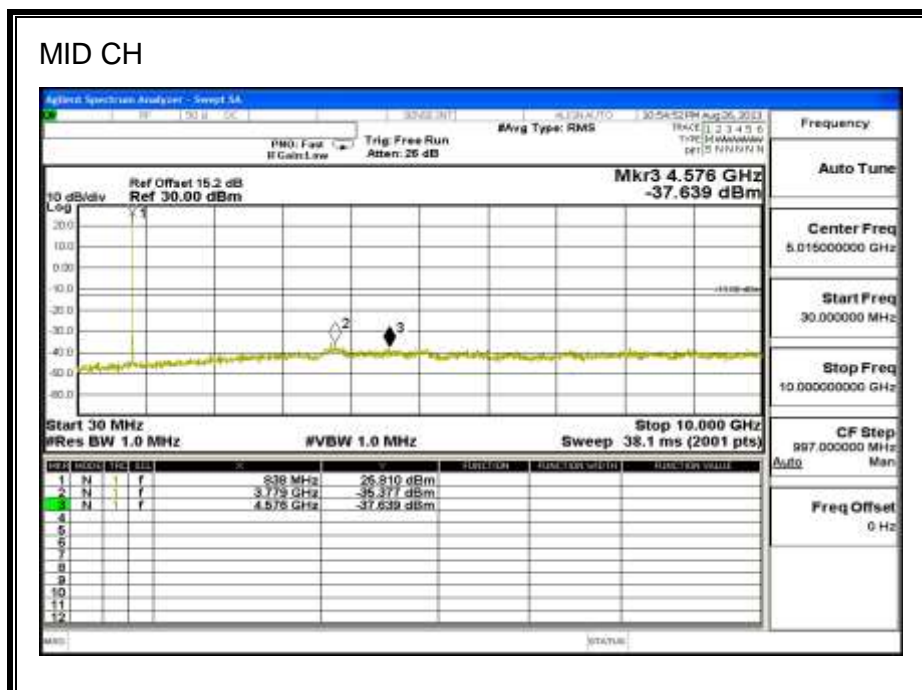
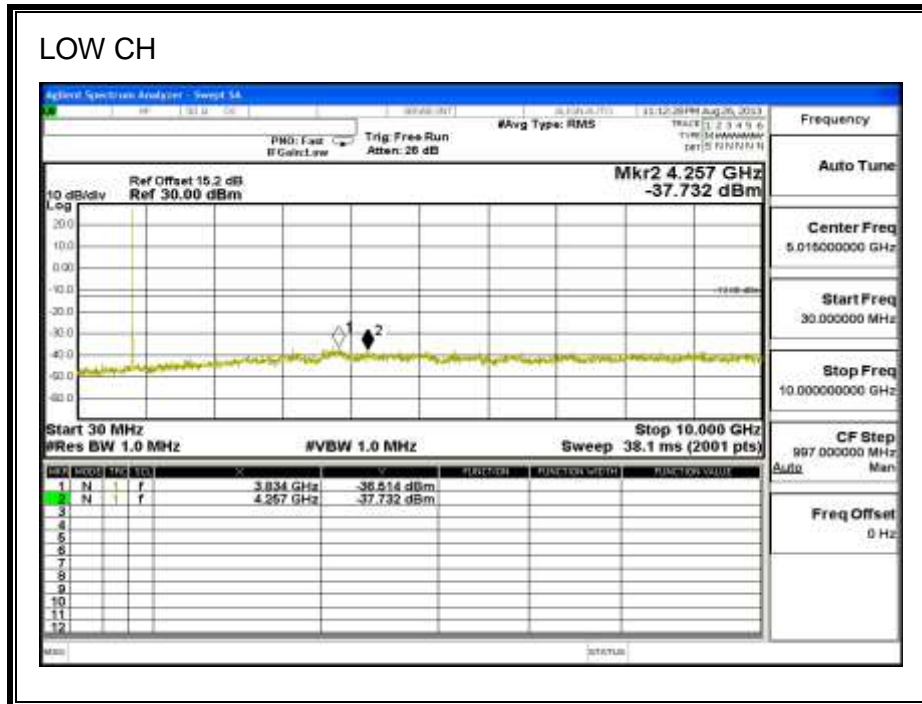
8.5.3. CDMA, BC0

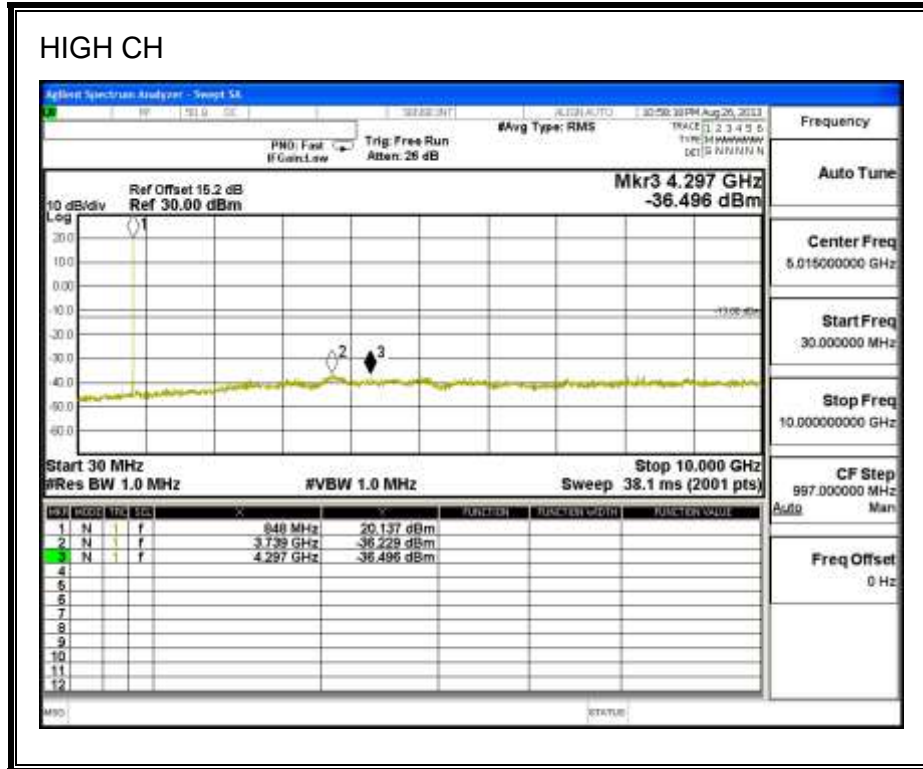
CELL BAND, 1xRTT





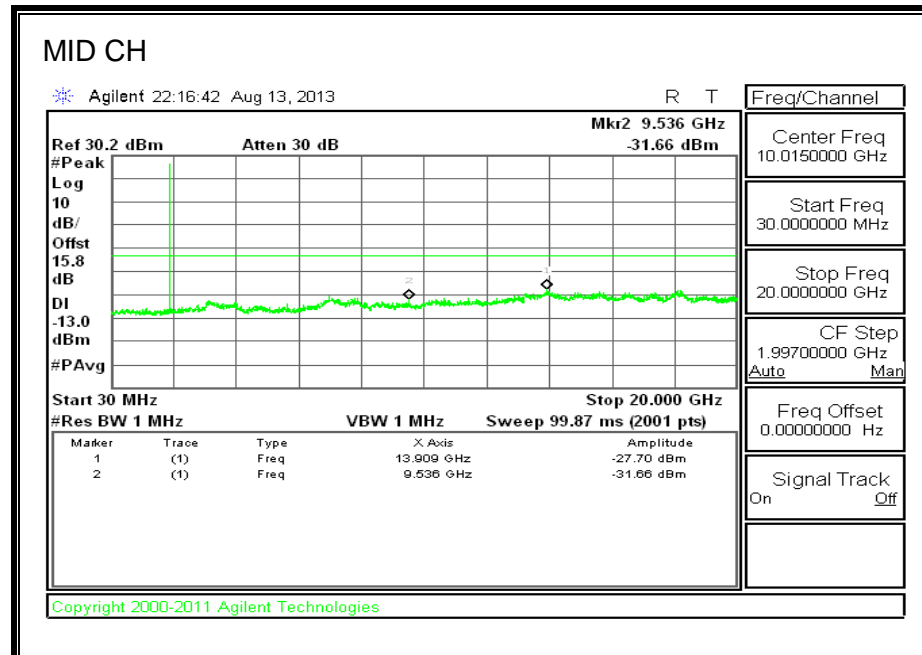
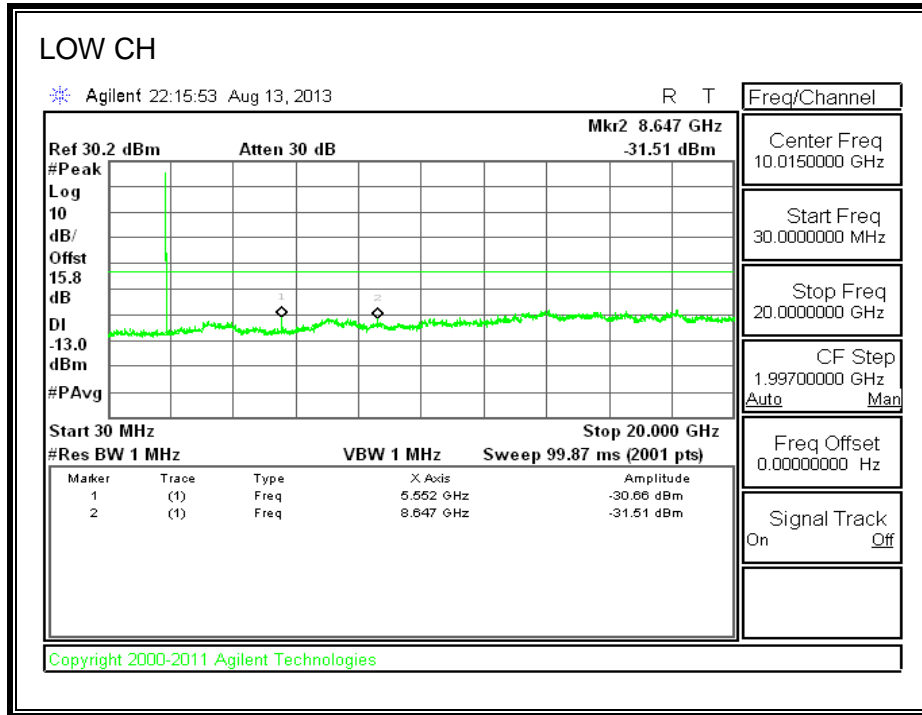
EVDO BC0

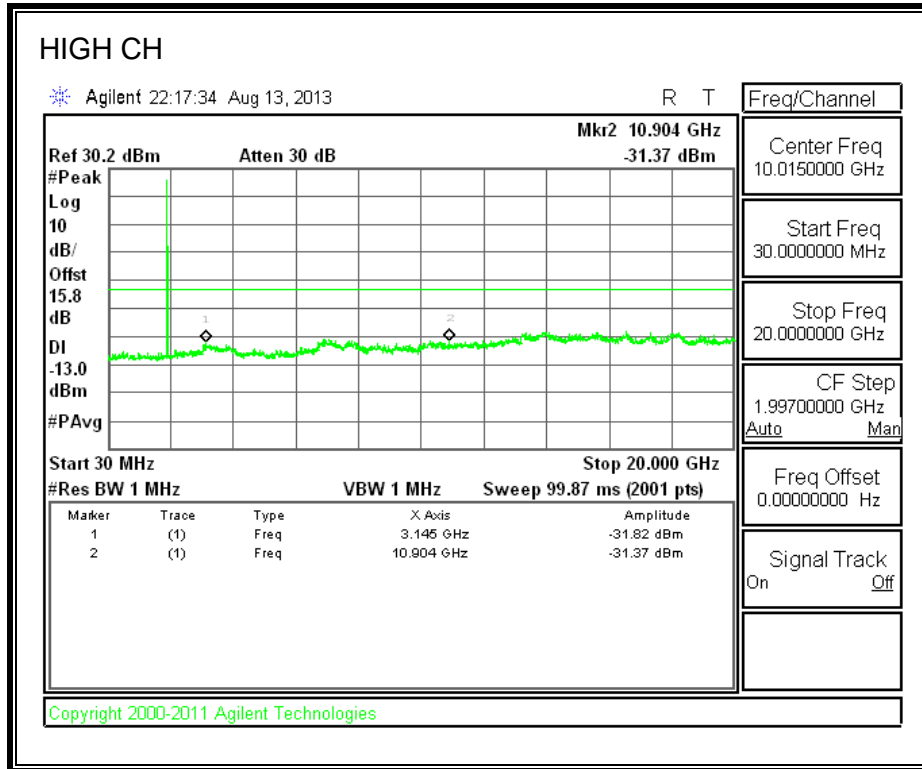




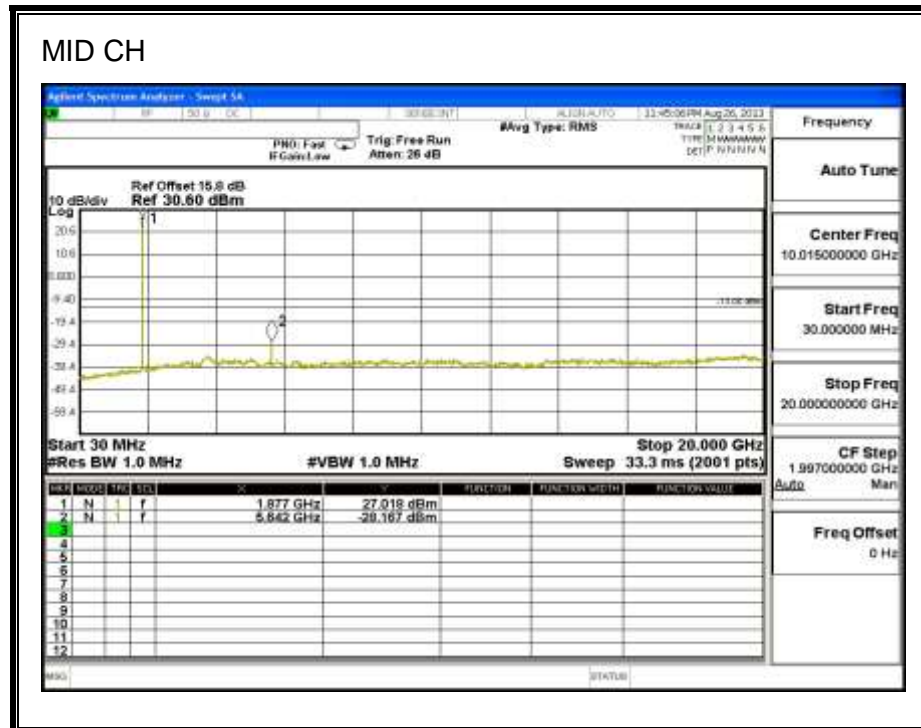
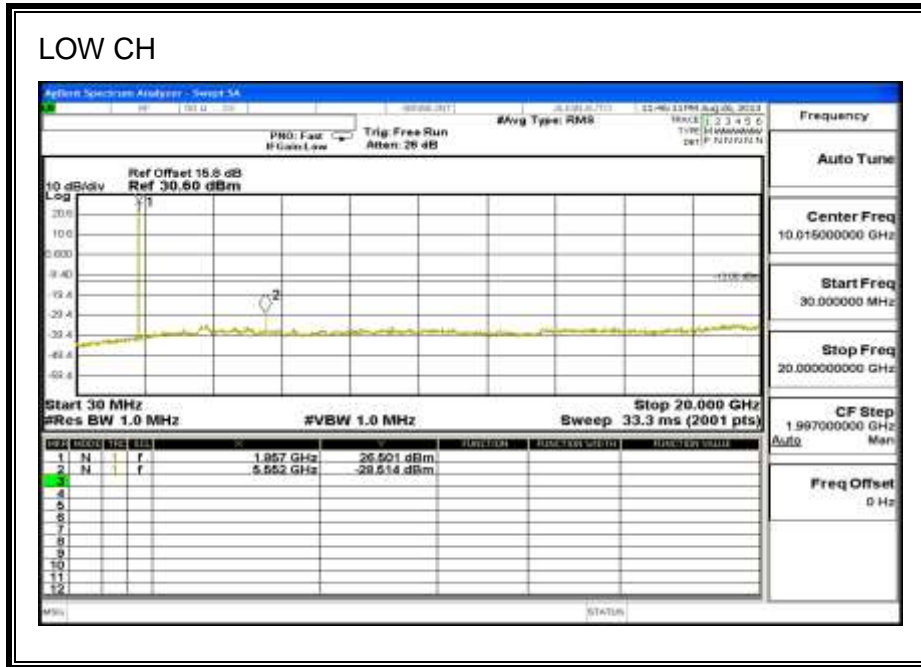
8.5.4. CDMA, BC1

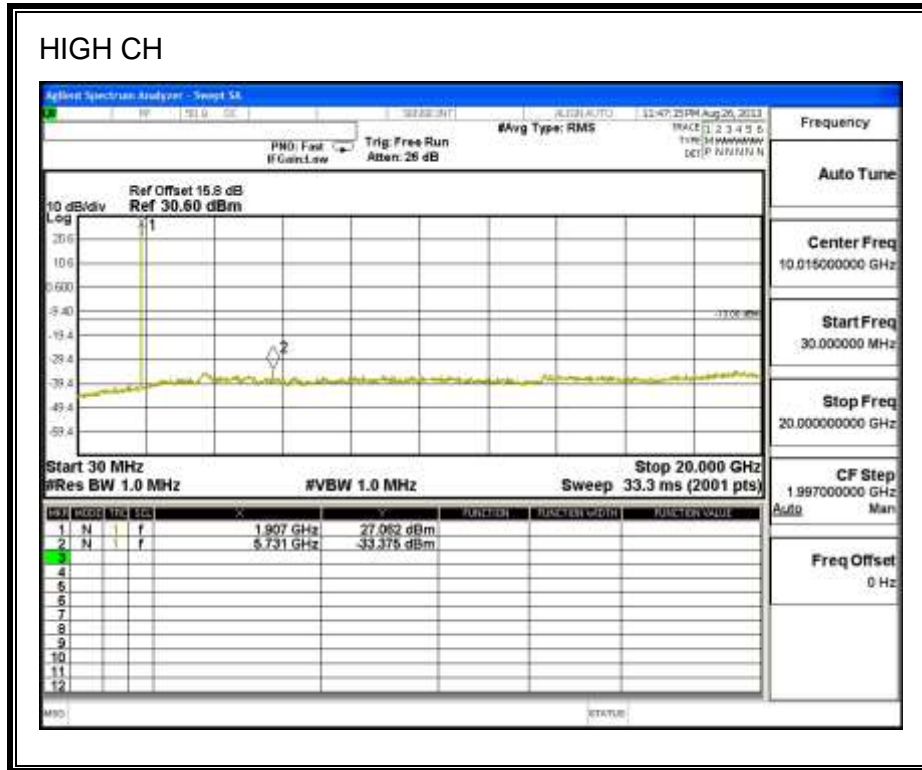
PCS Band, 1xRTT





EVDO BC1

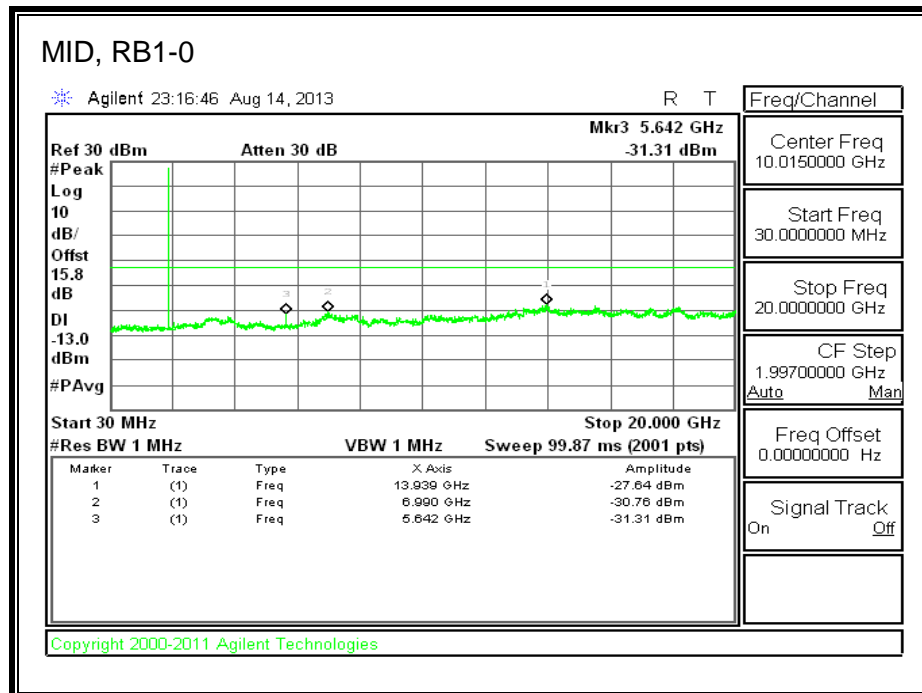
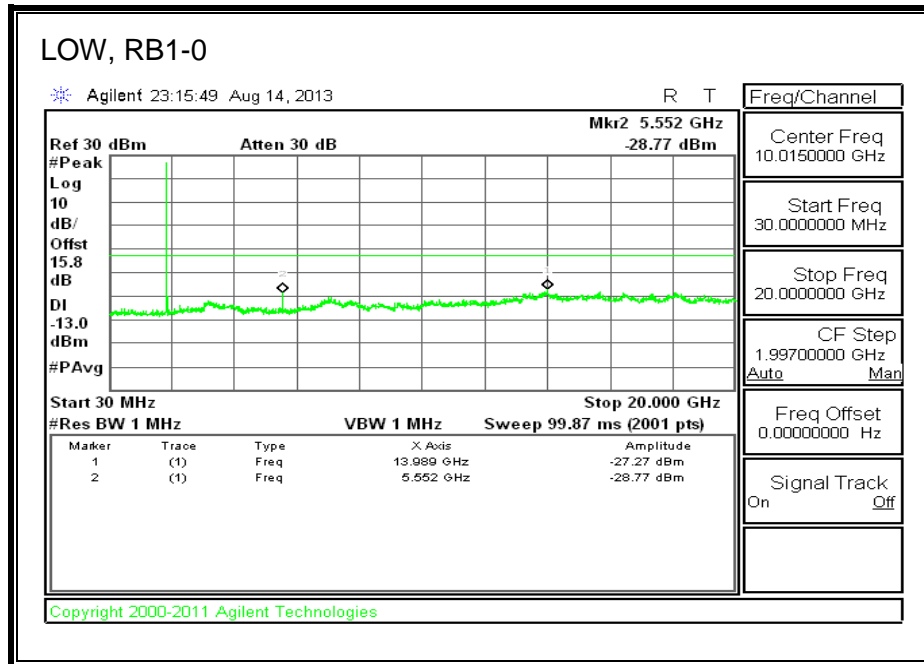


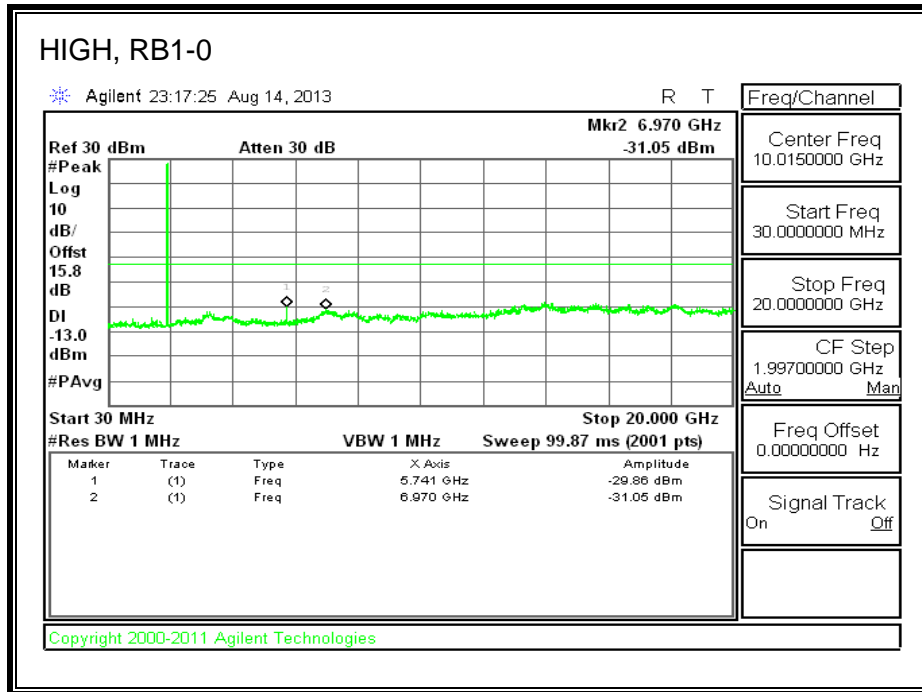


8.5.5. LTE BAND 25

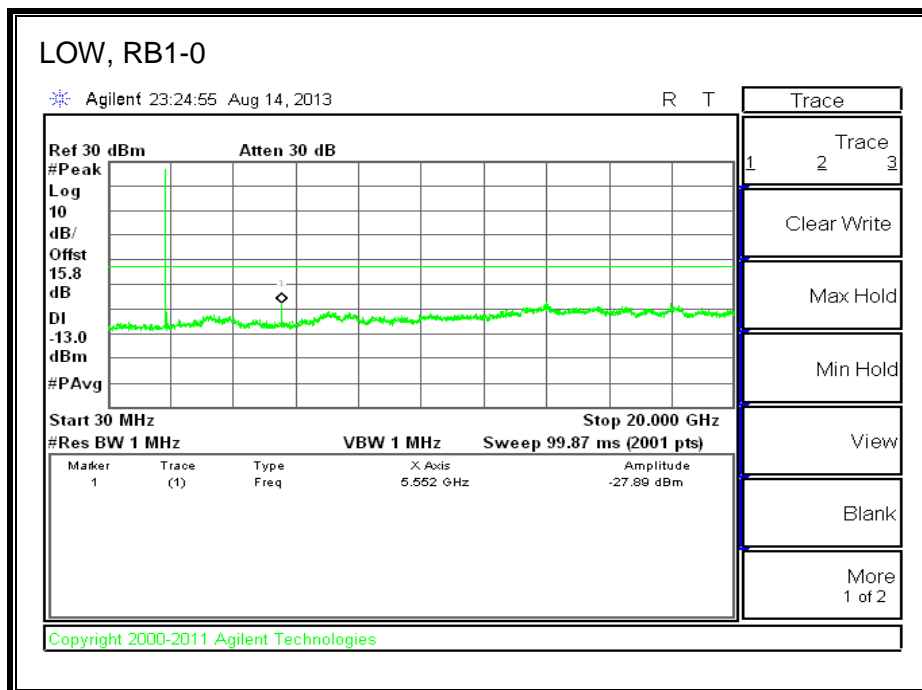
Band 25 (3.0 MHz BANDWIDTH)

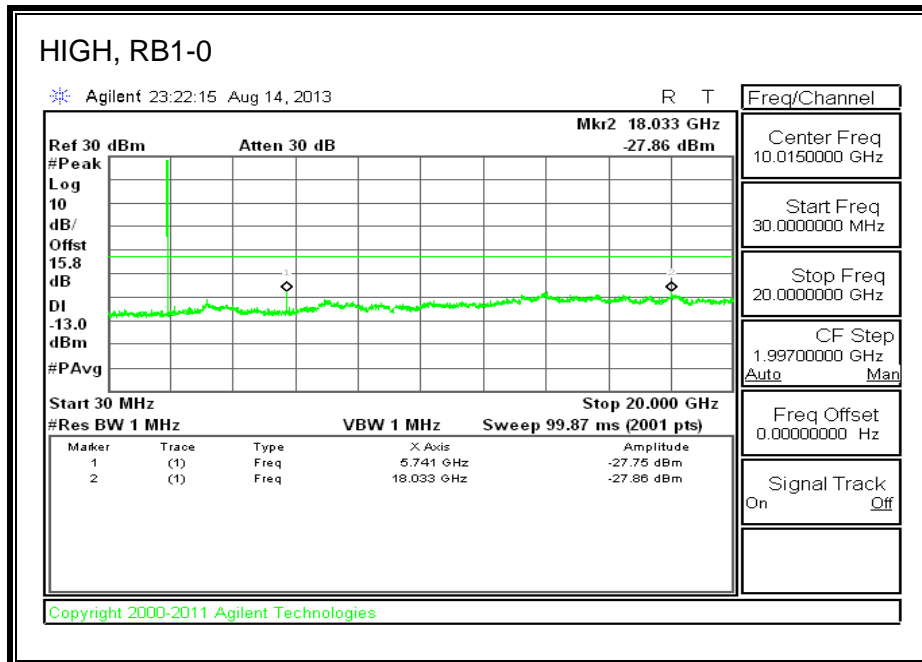
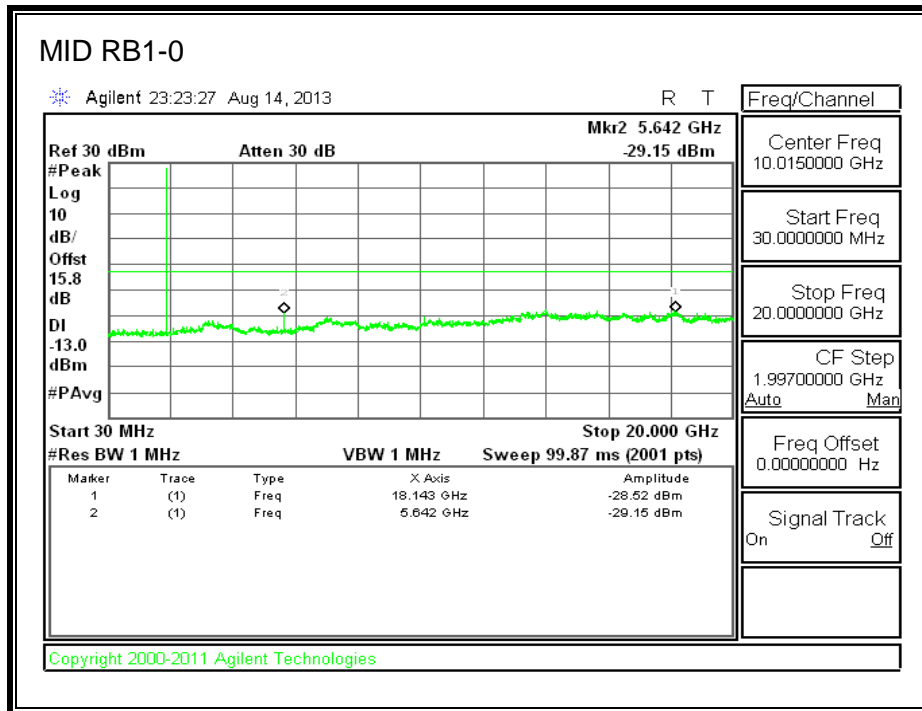
LTE QPSK





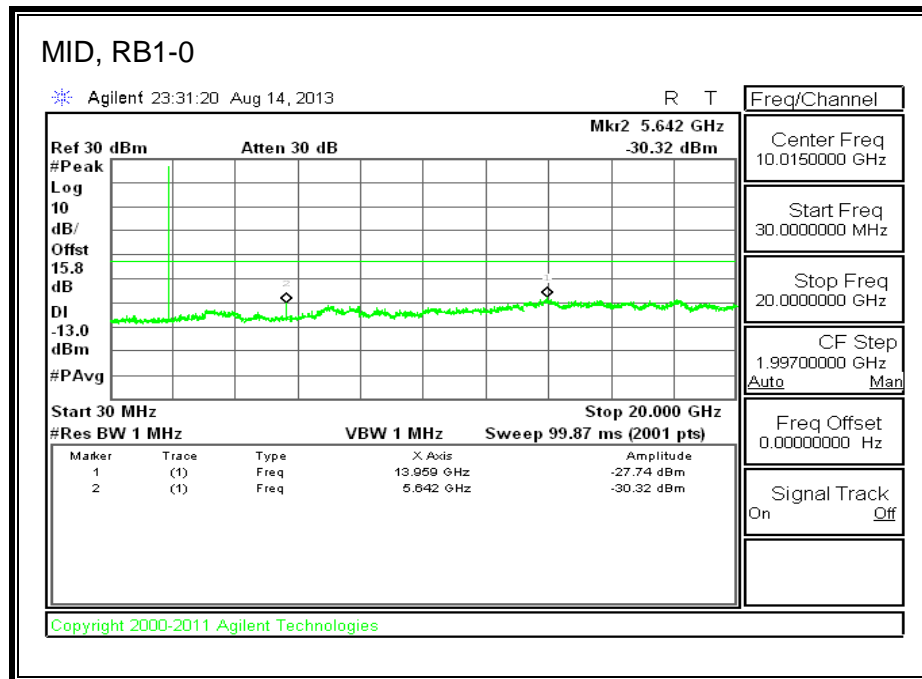
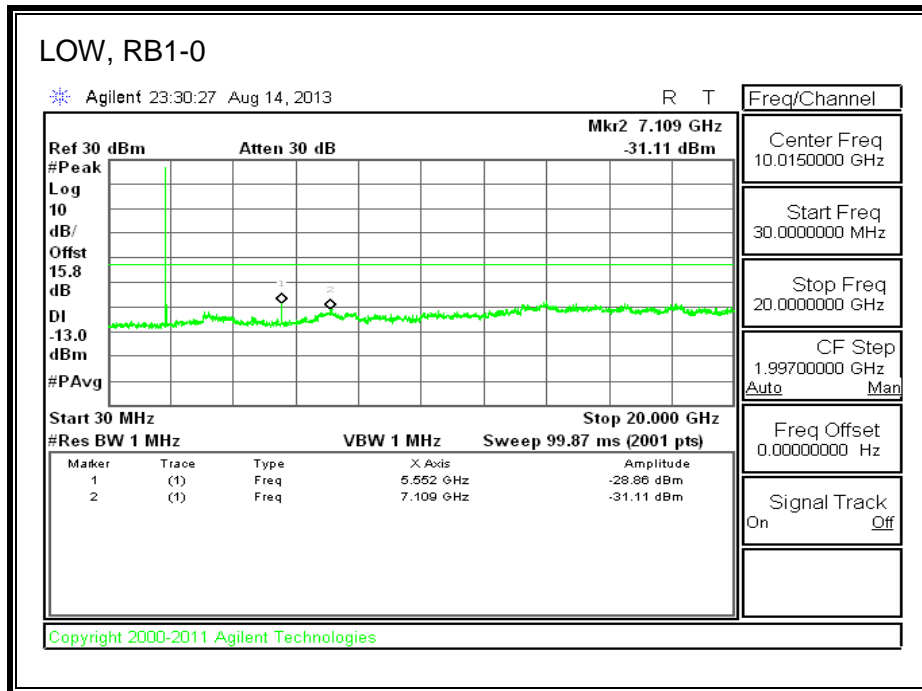
LTE 16QAM

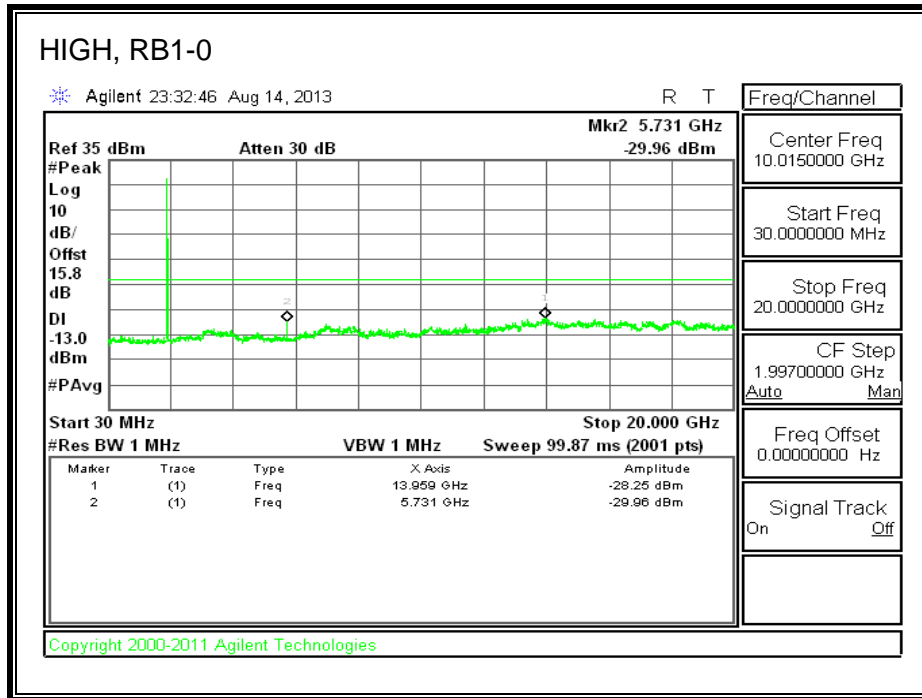




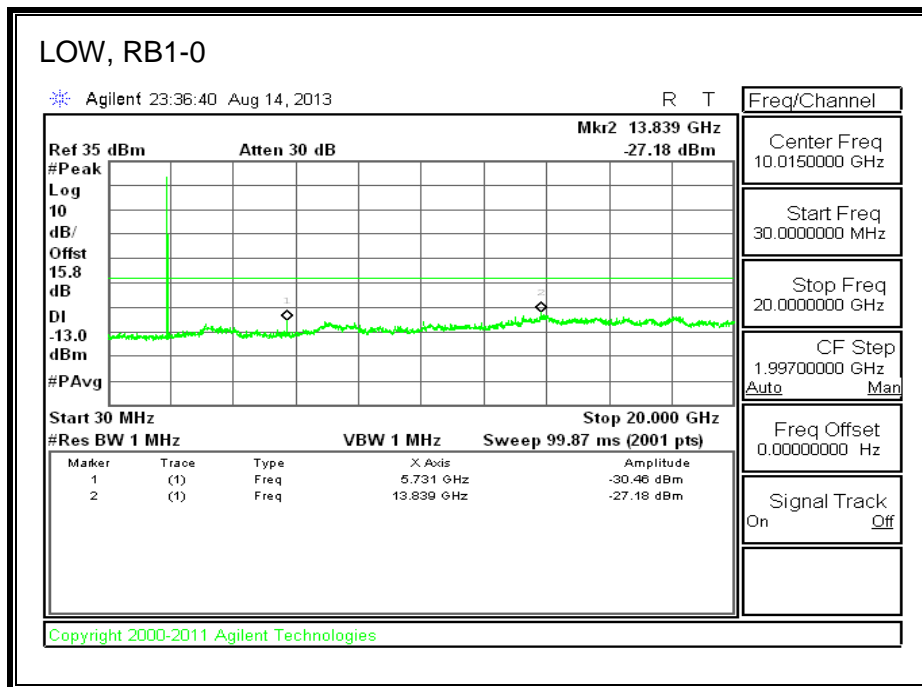
Band 25 (5.0 MHz BAND WIDTH)

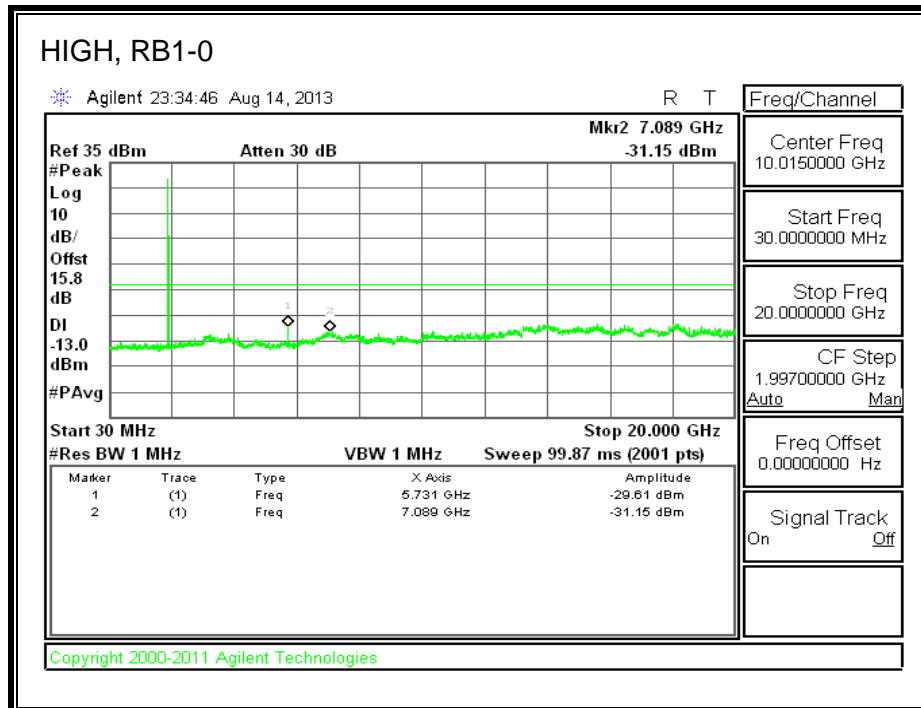
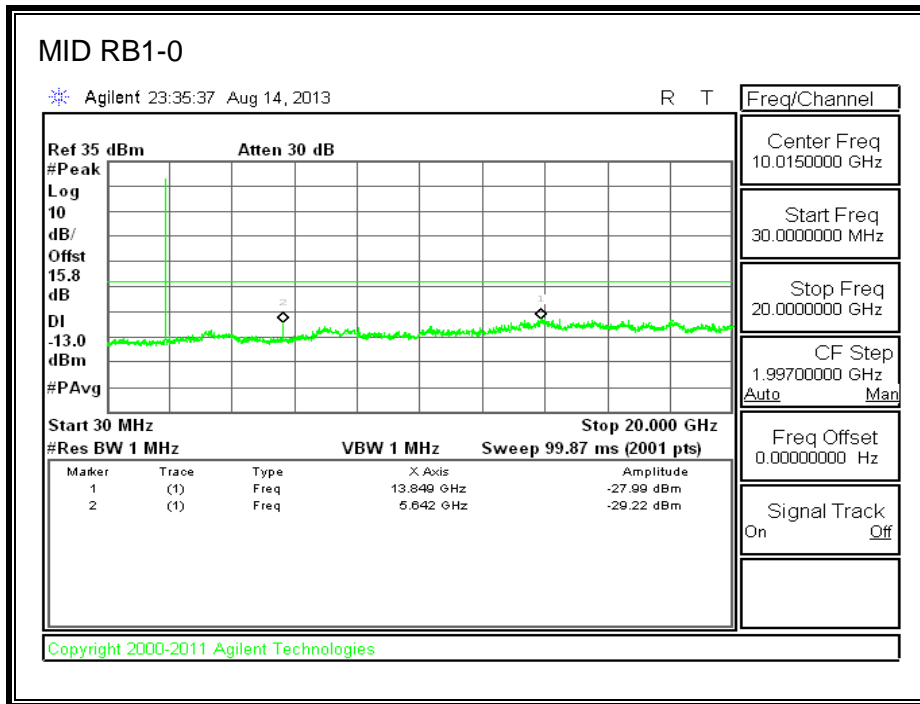
LTE QPSK





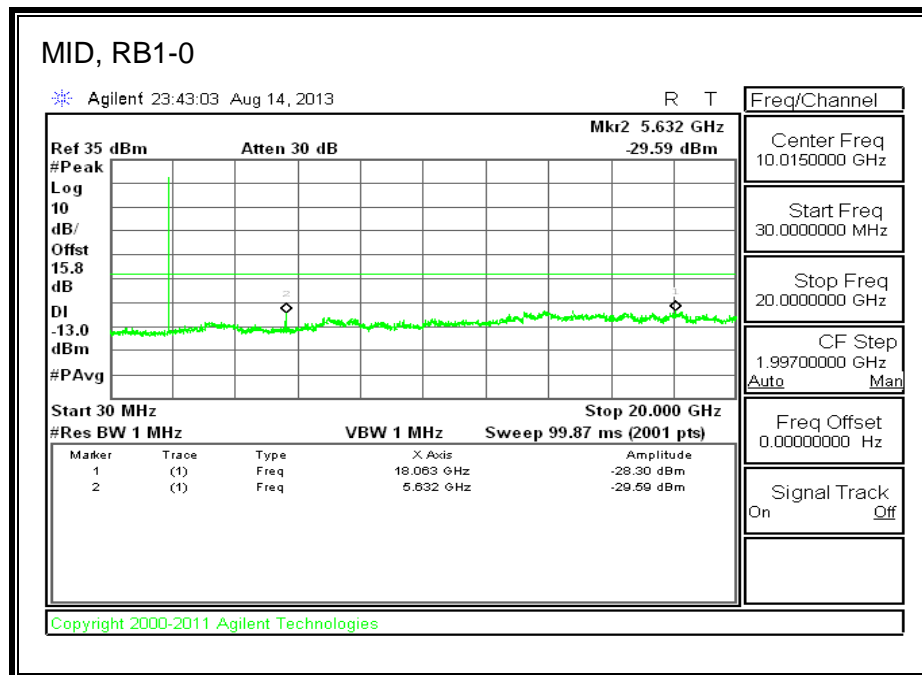
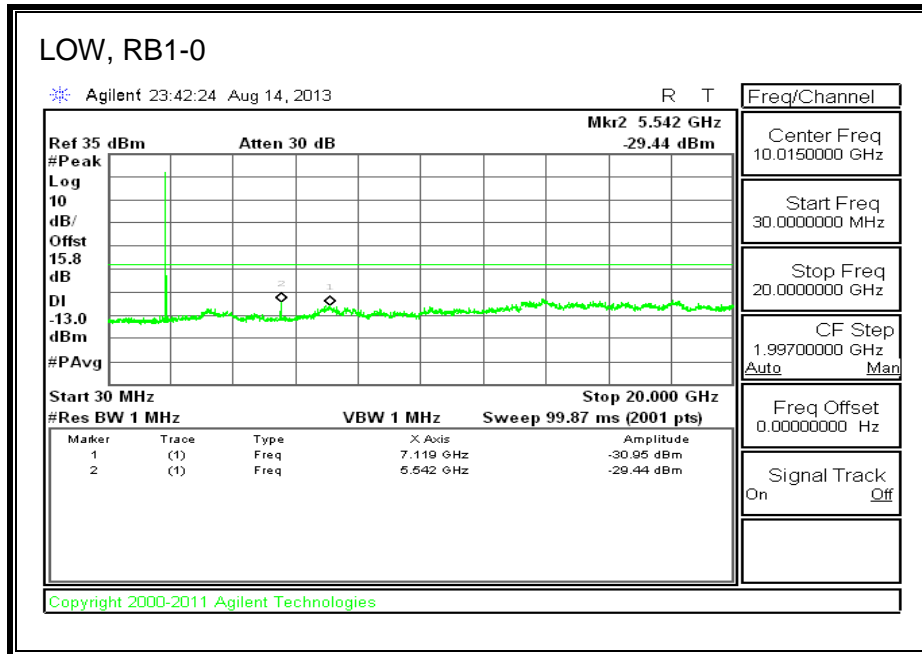
LTE 16QAM

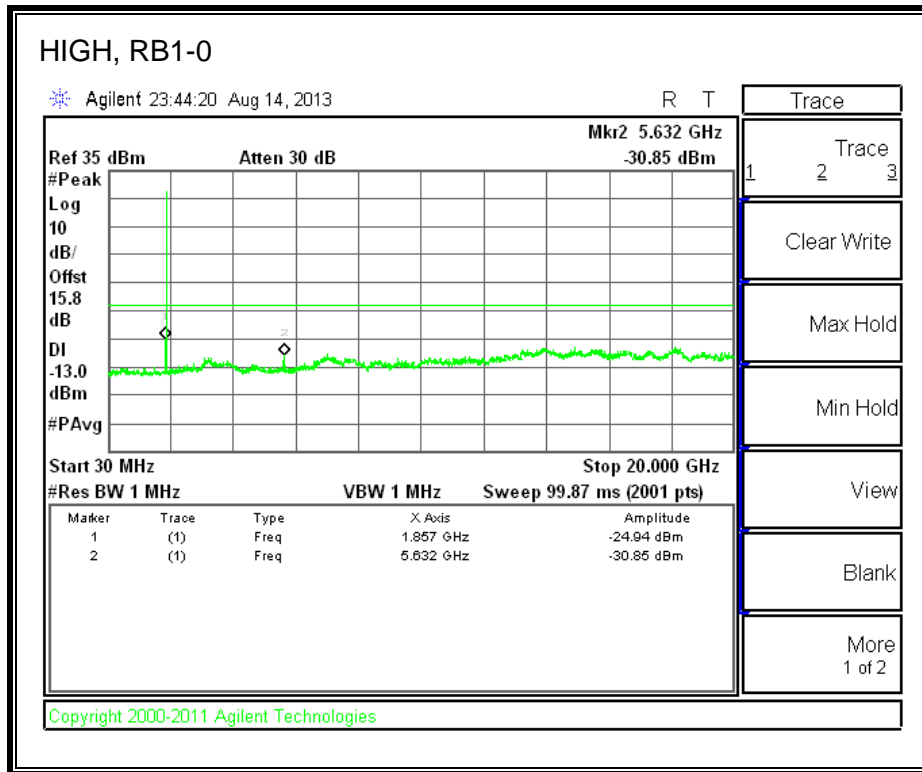




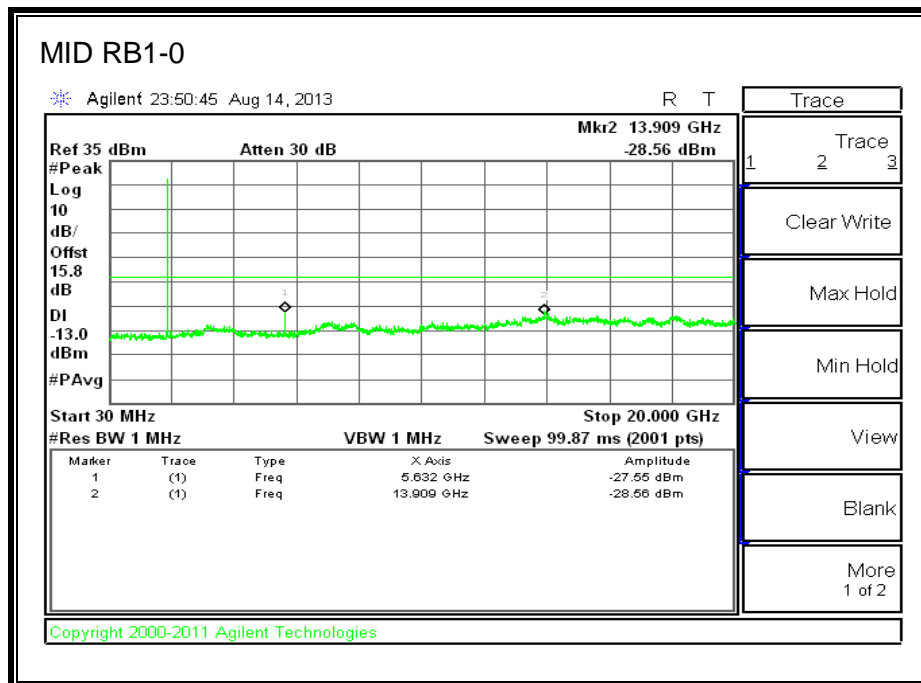
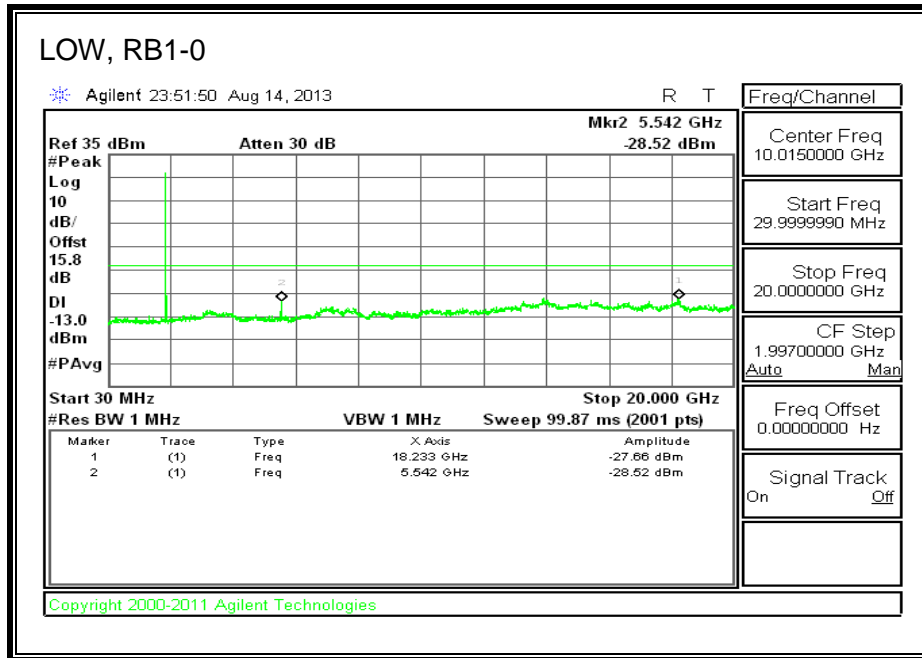
Band 25 (10.0 MHz BANDWIDTH)

LTE QPSK





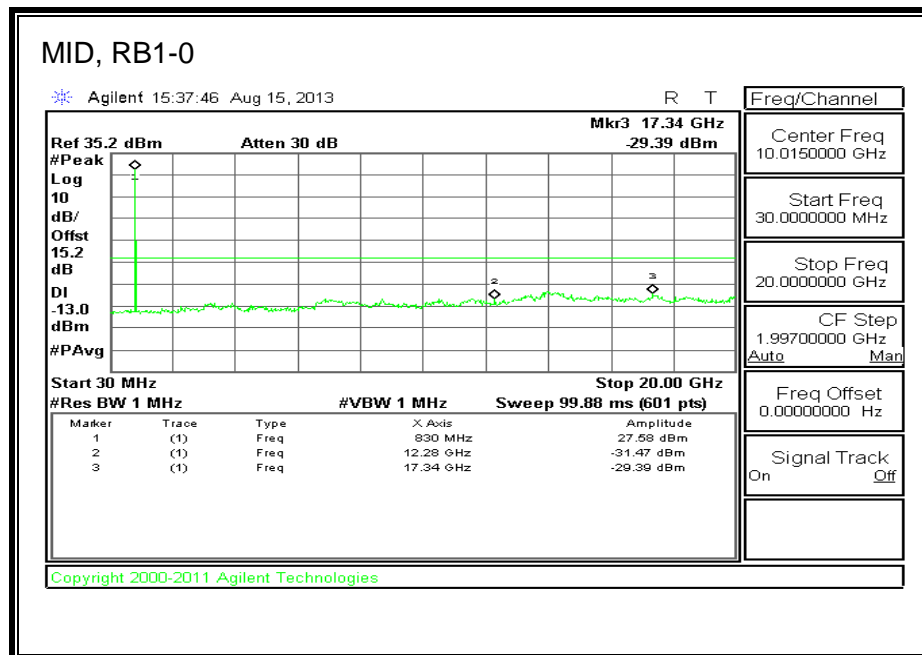
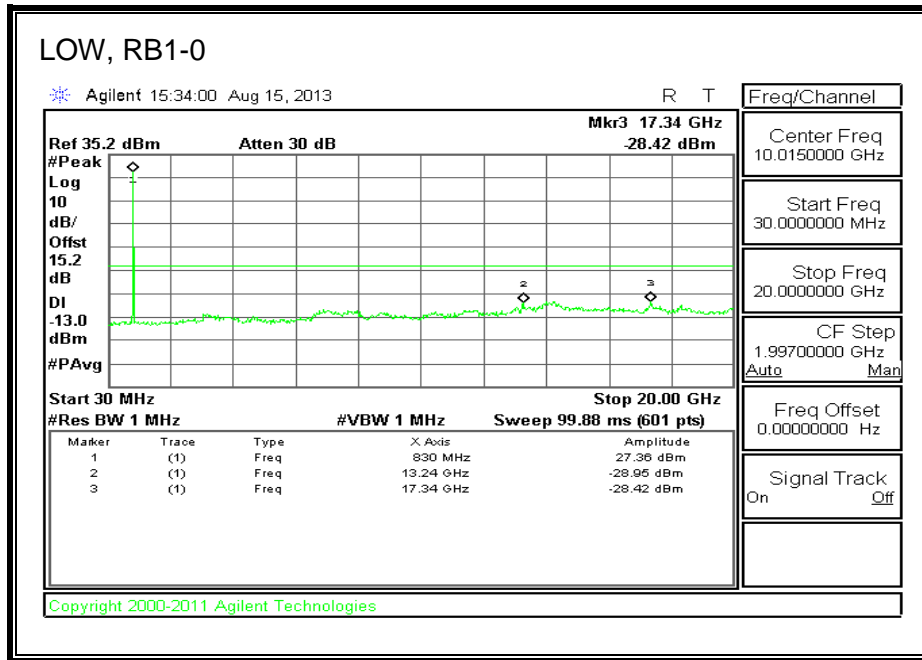
LTE 16QAM

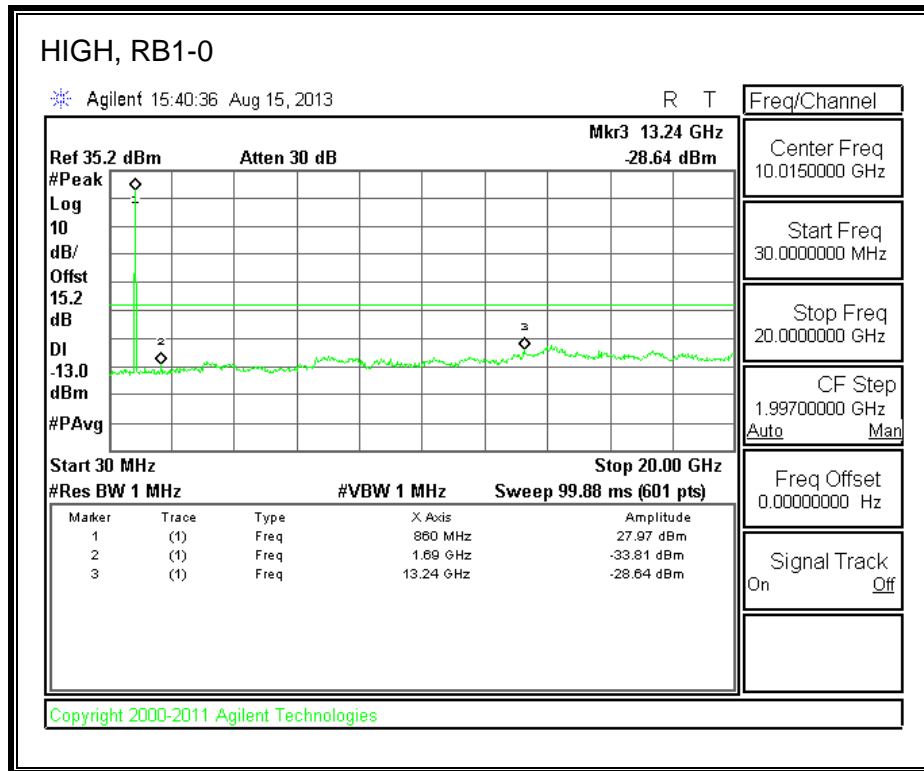


8.5.6. LTE BAND 26

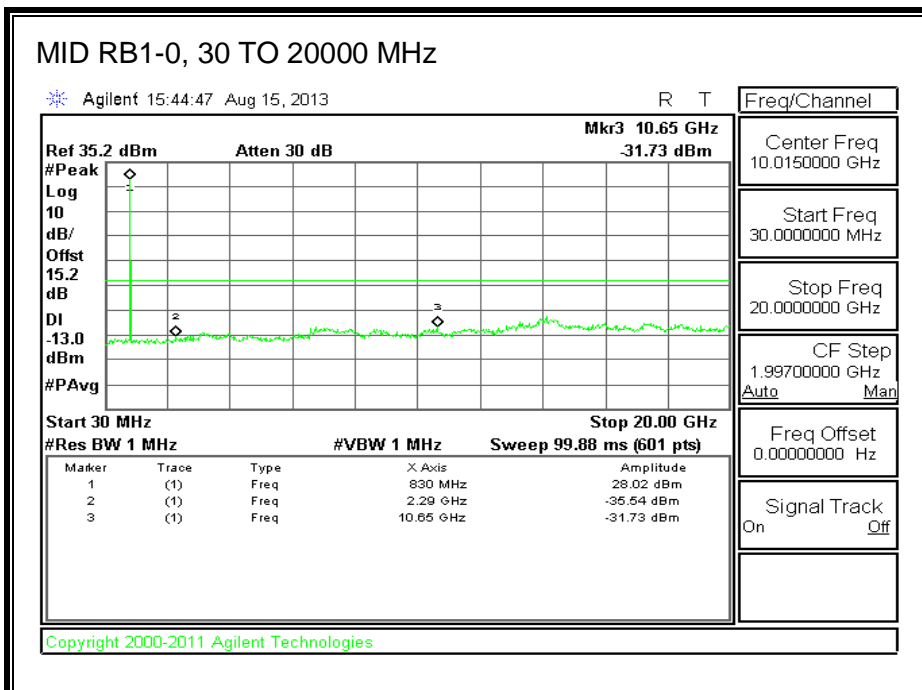
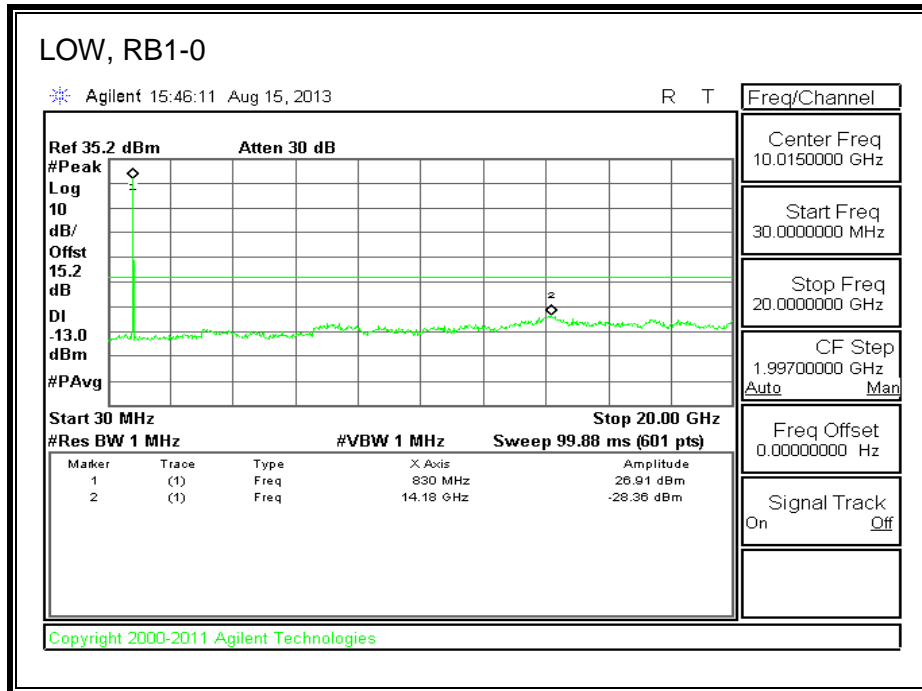
Band 26 (1.4 MHz BANDWIDTH)

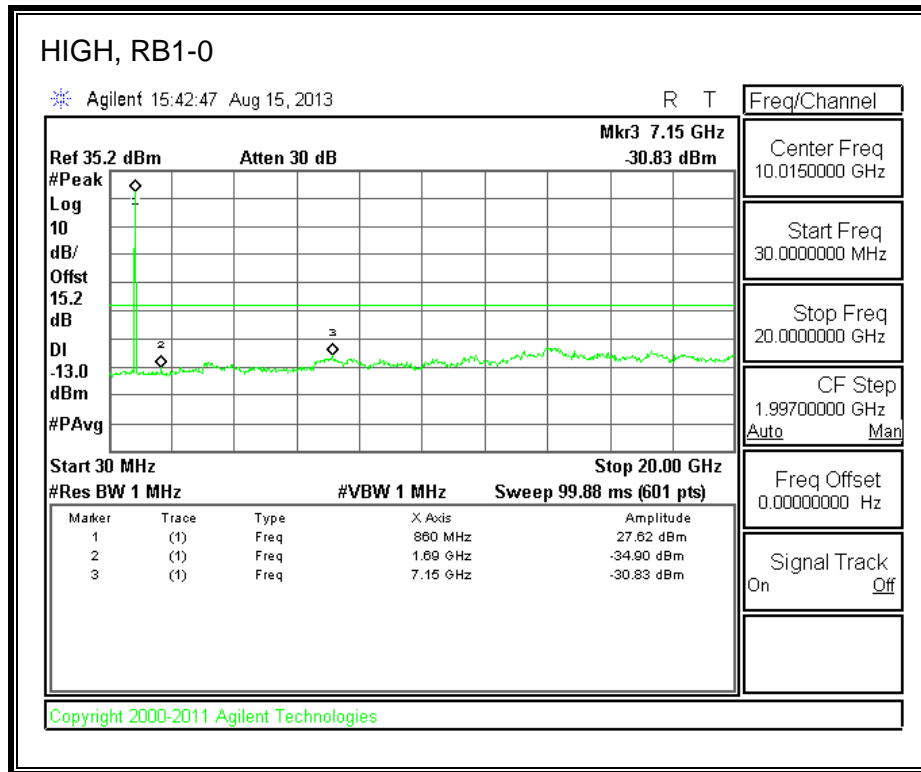
LTE QPSK





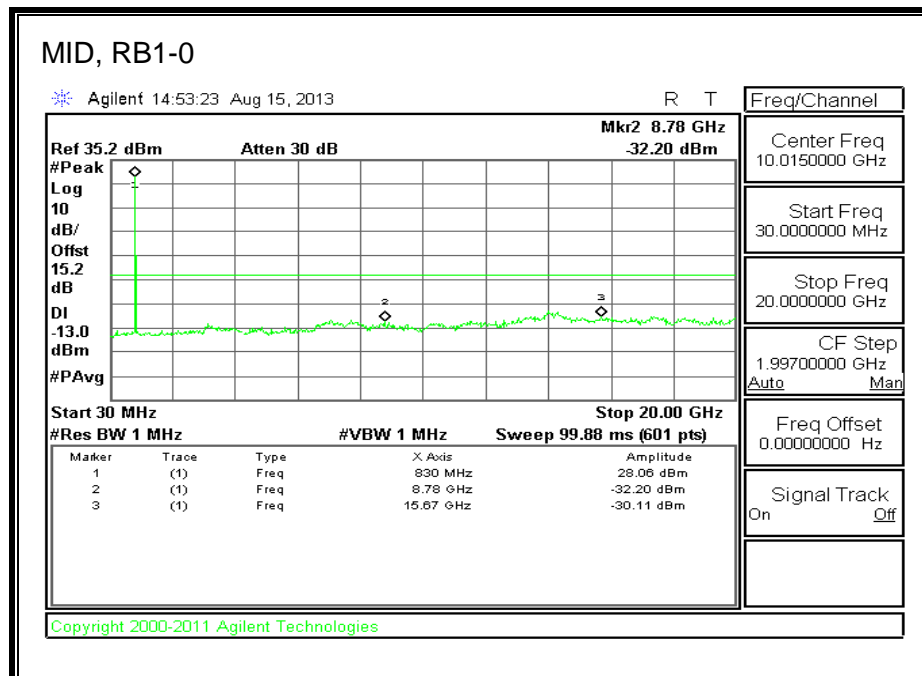
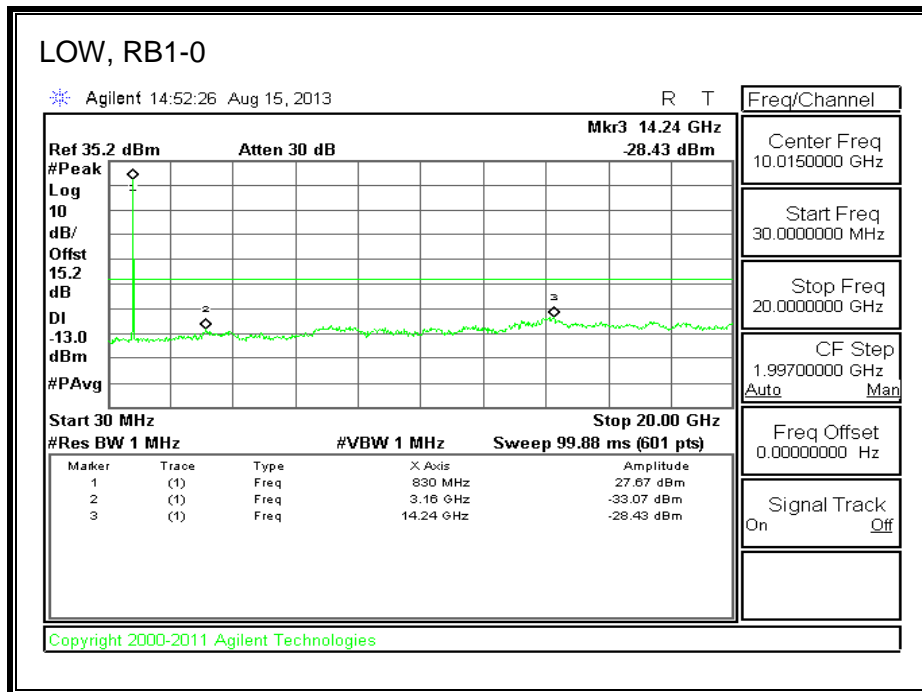
LTE 16QAM

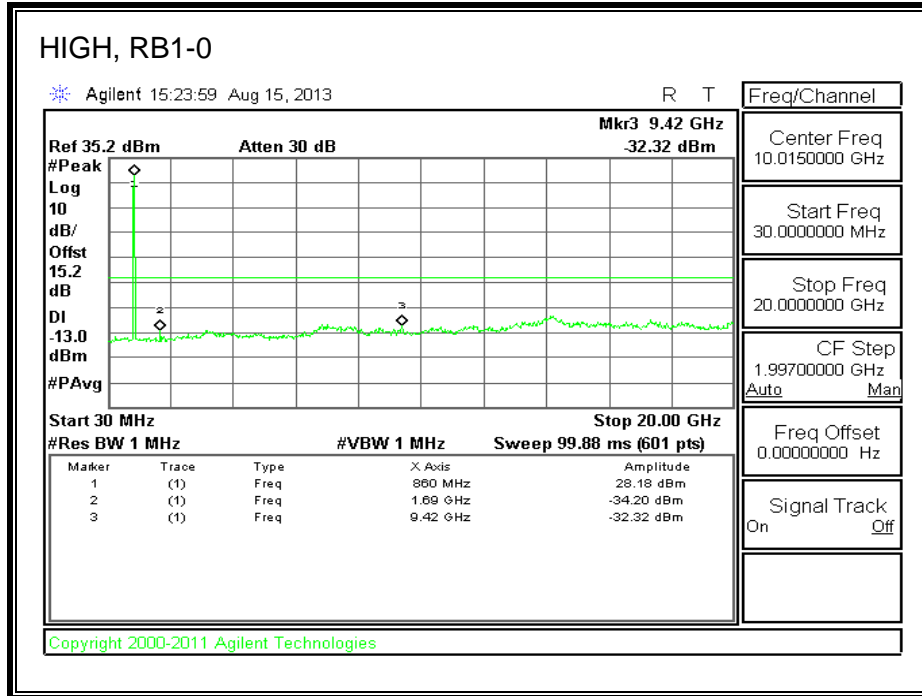




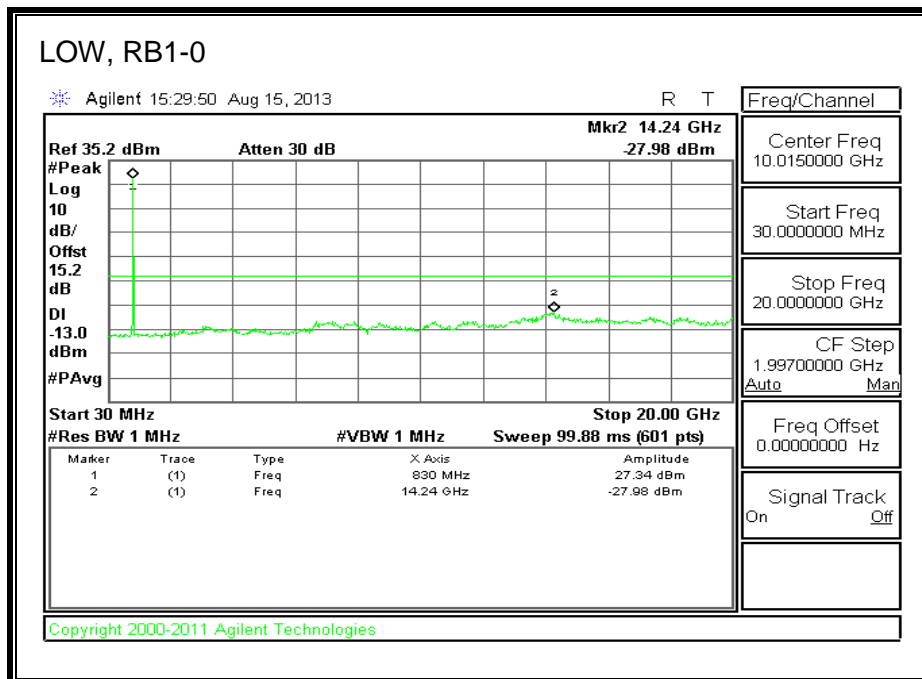
Band 26 (3.0 MHz BANDWIDTH)

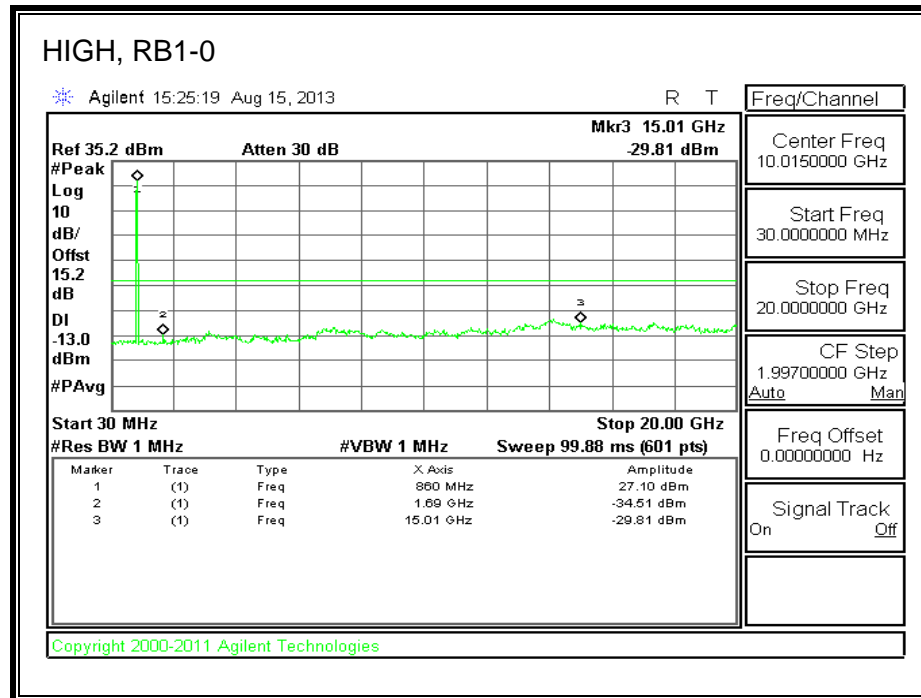
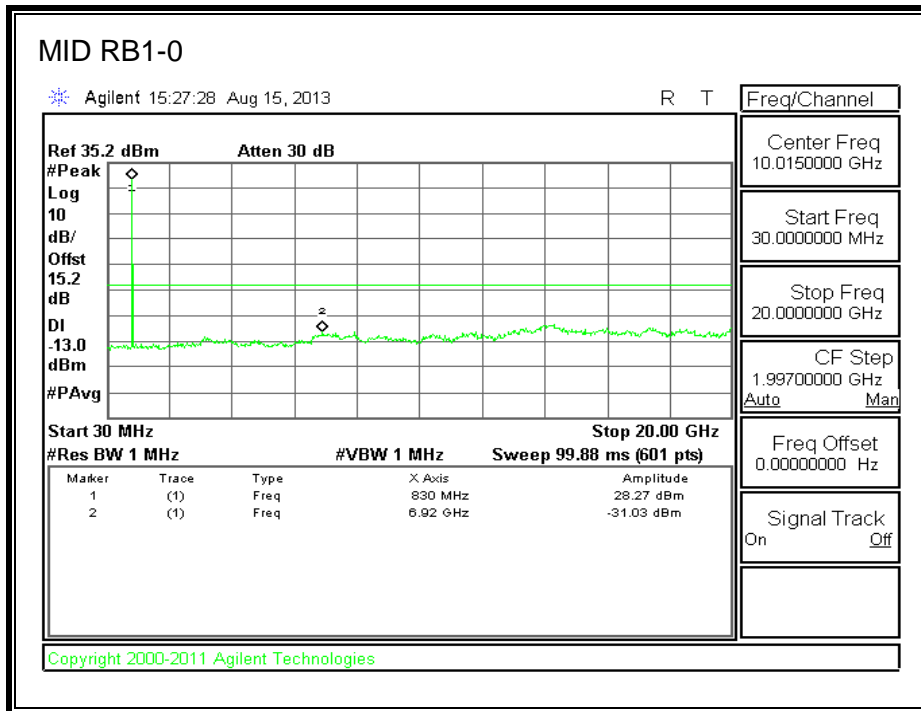
LTE QPSK





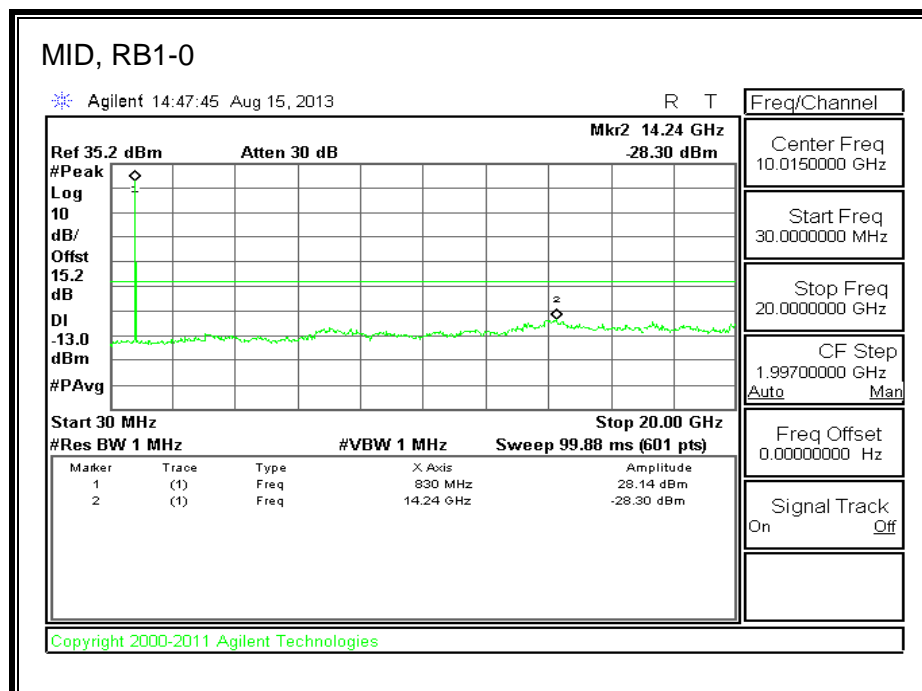
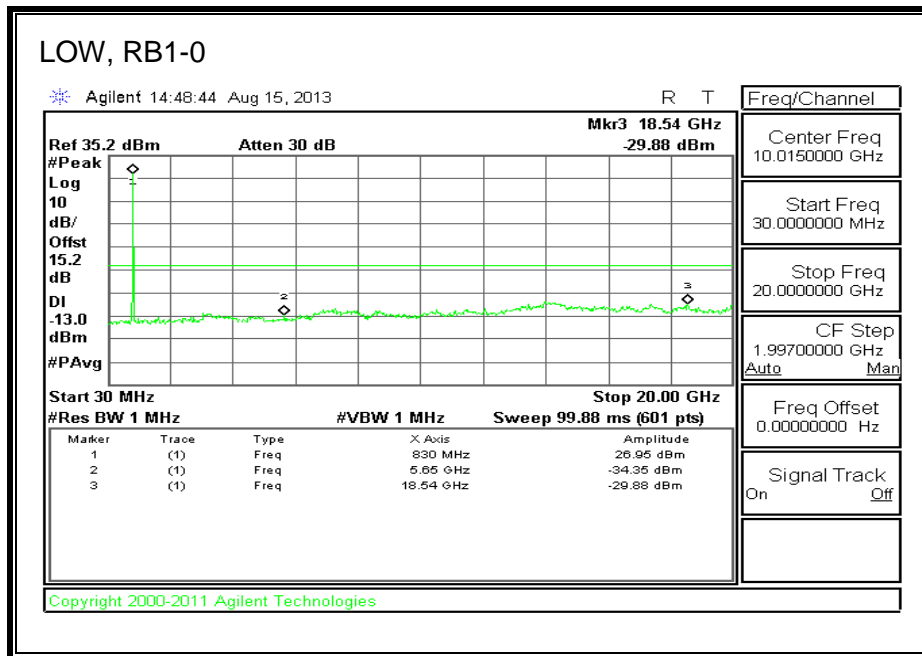
LTE 16QAM

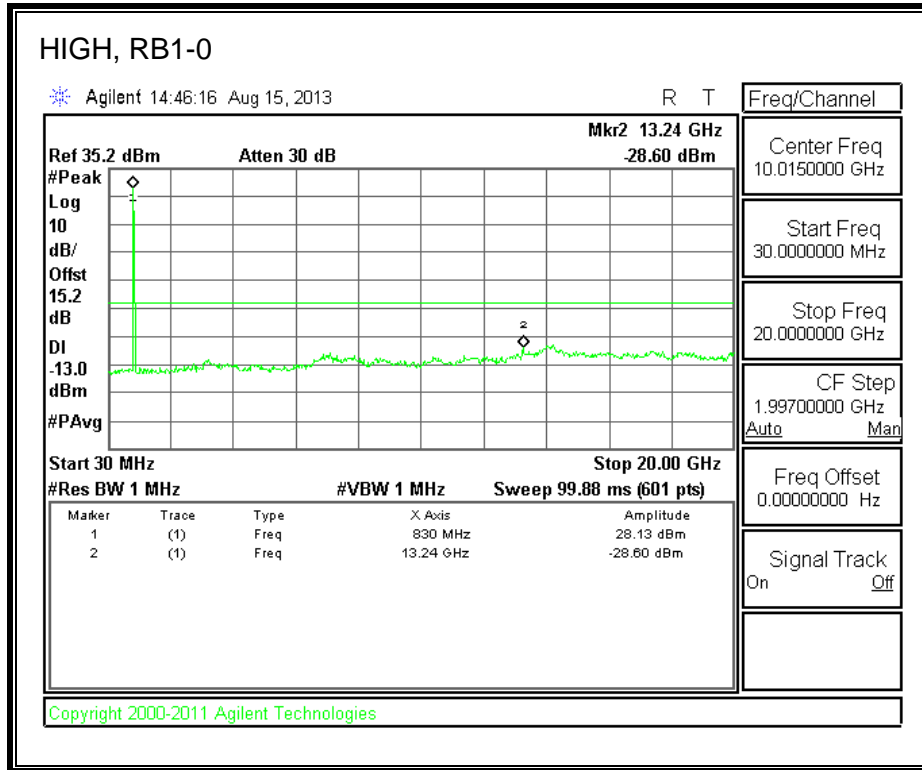




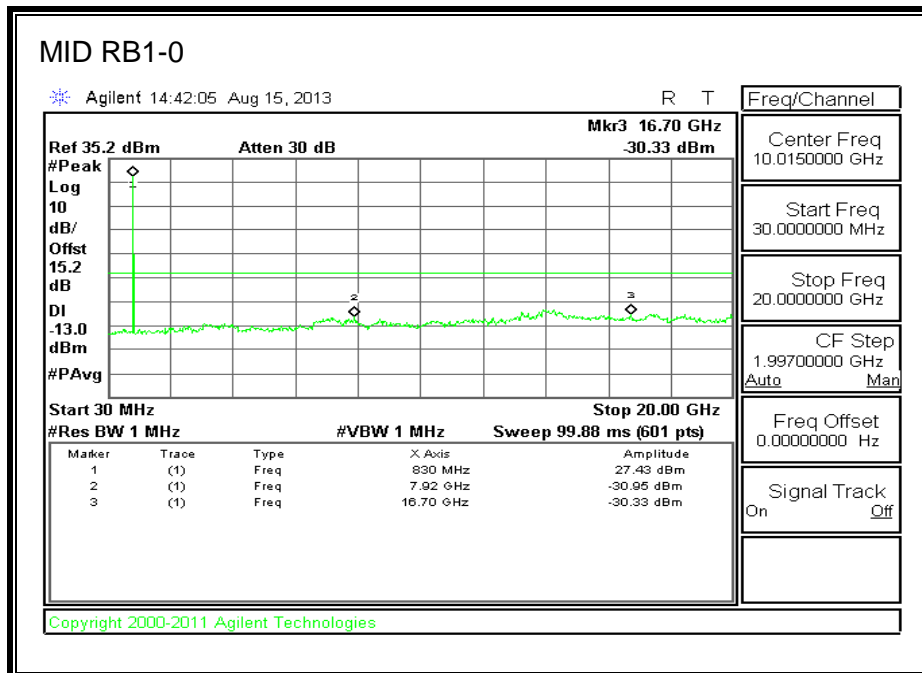
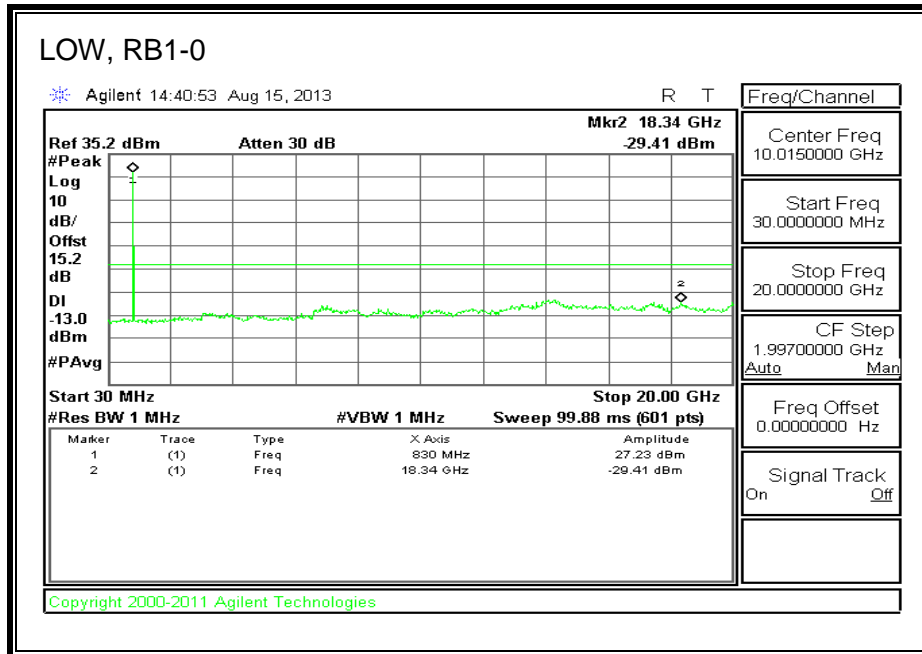
Band 26 (5.0 MHz BAND WIDTH)

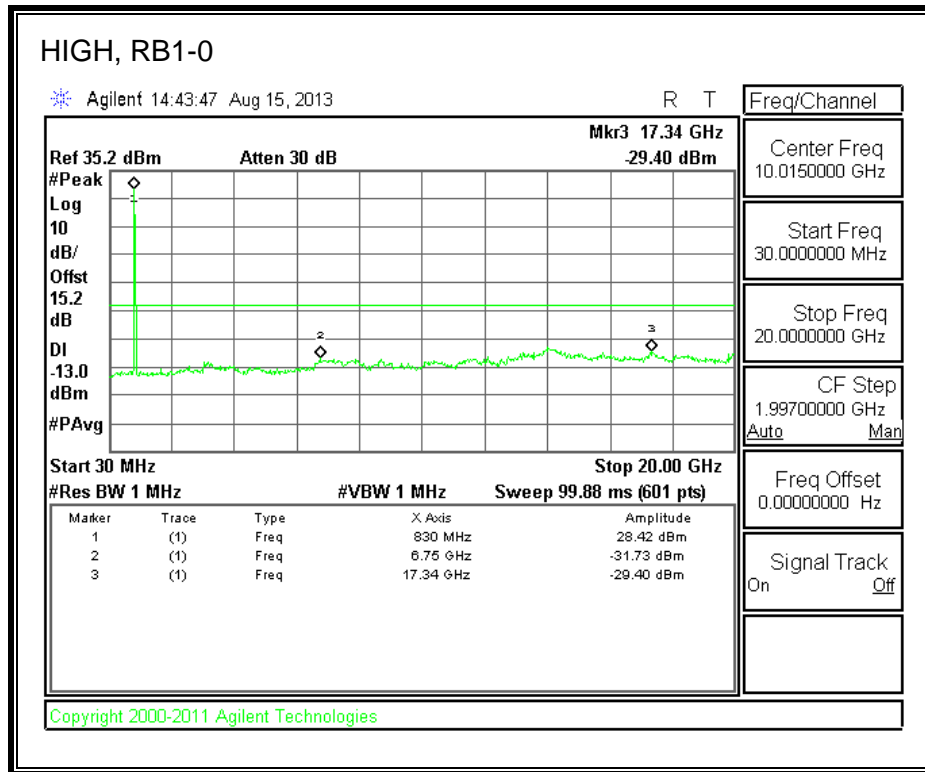
LTE QPSK





LTE 16QAM

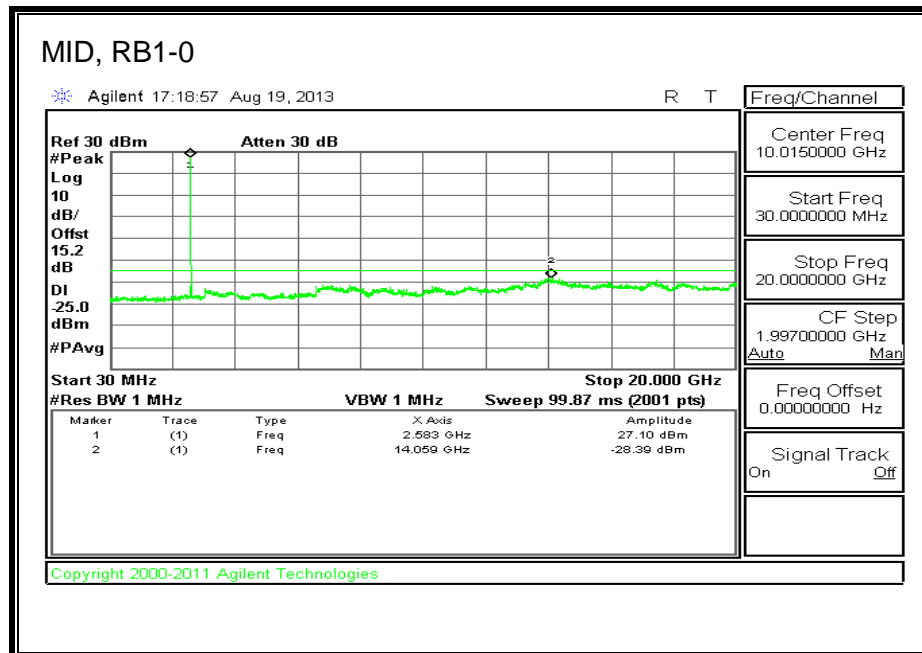
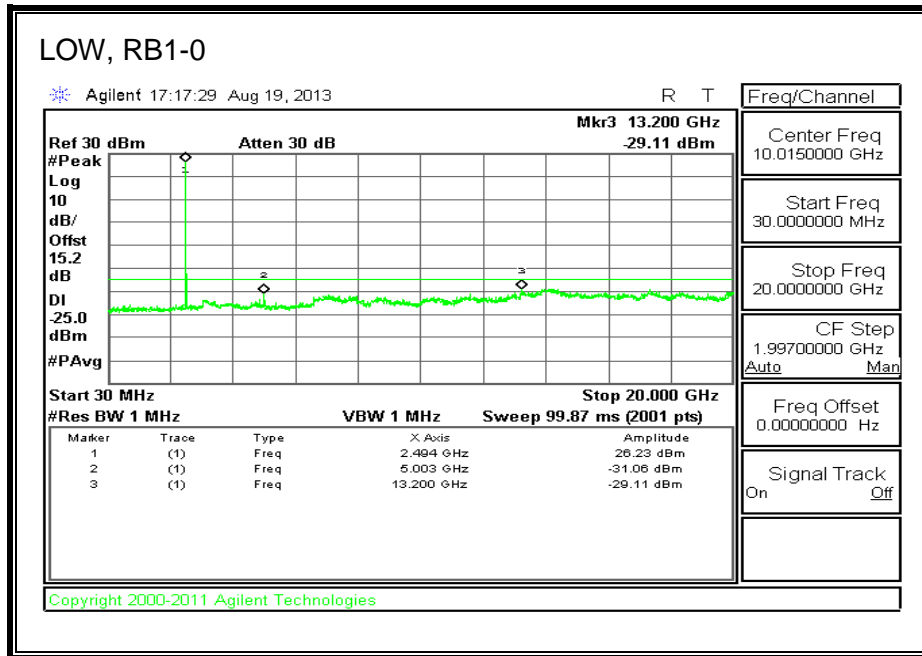


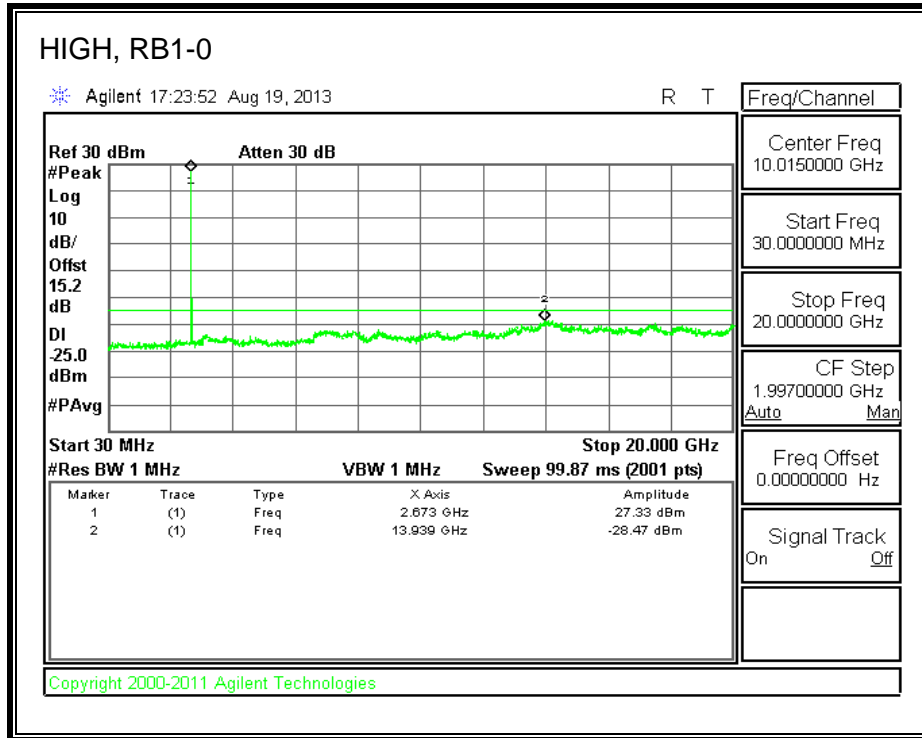


8.5.7. LTE BAND 41

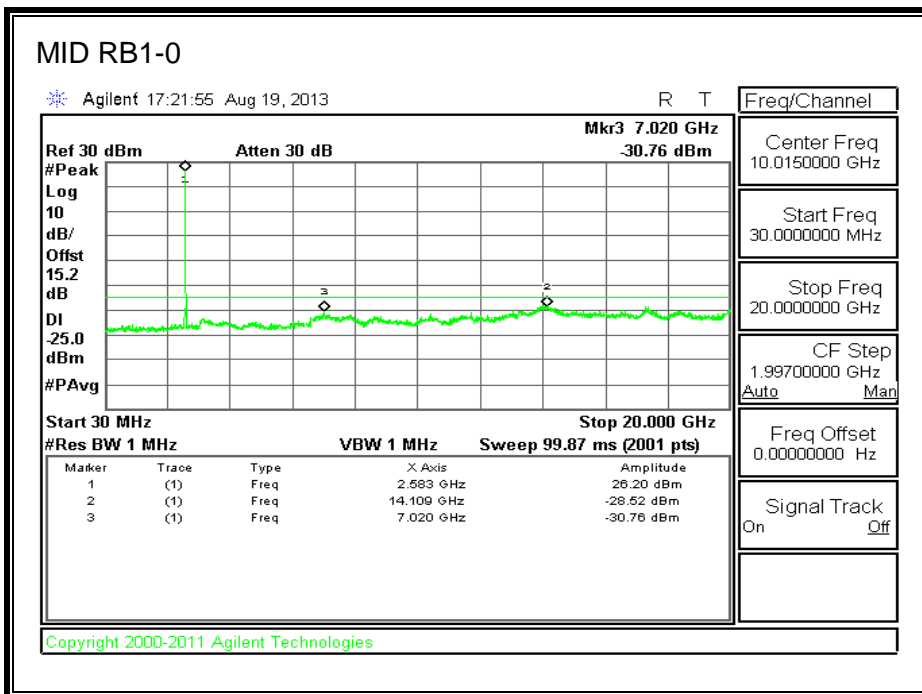
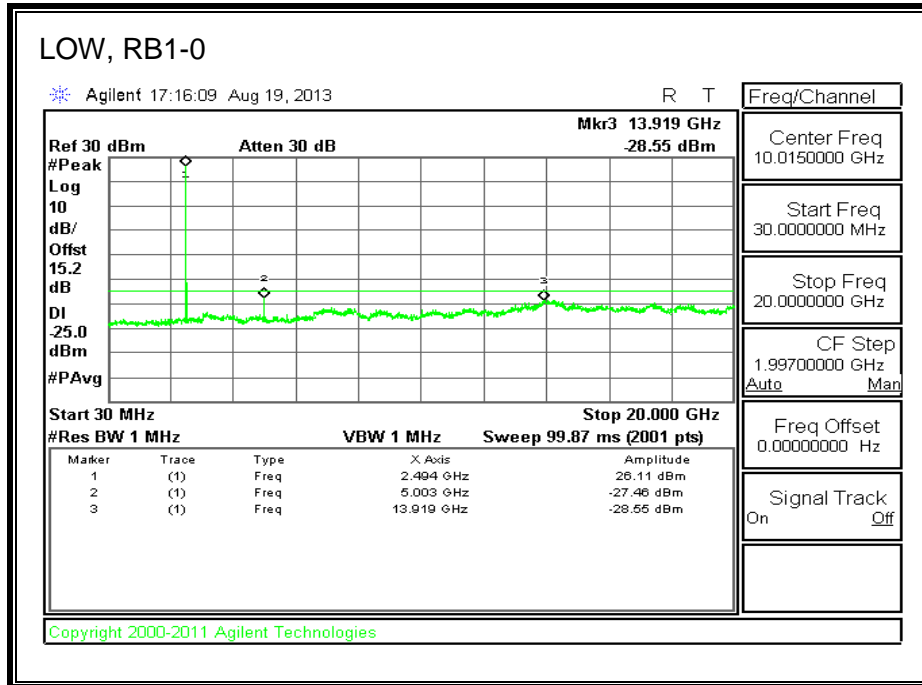
Band 41 (10.0 MHz BANDWIDTH)

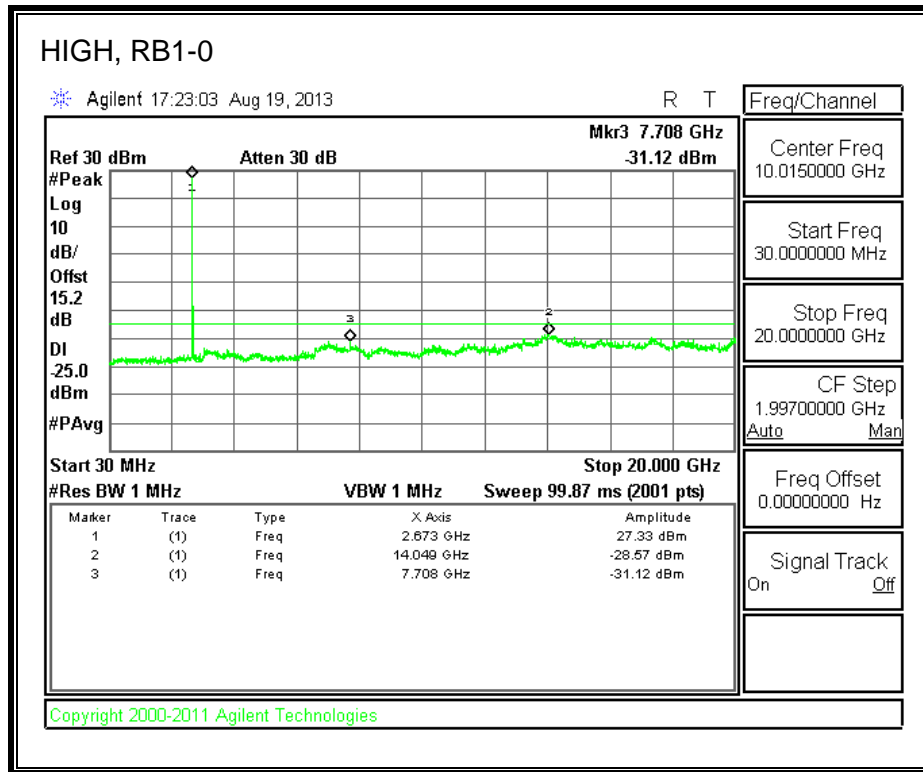
LTE QPSK





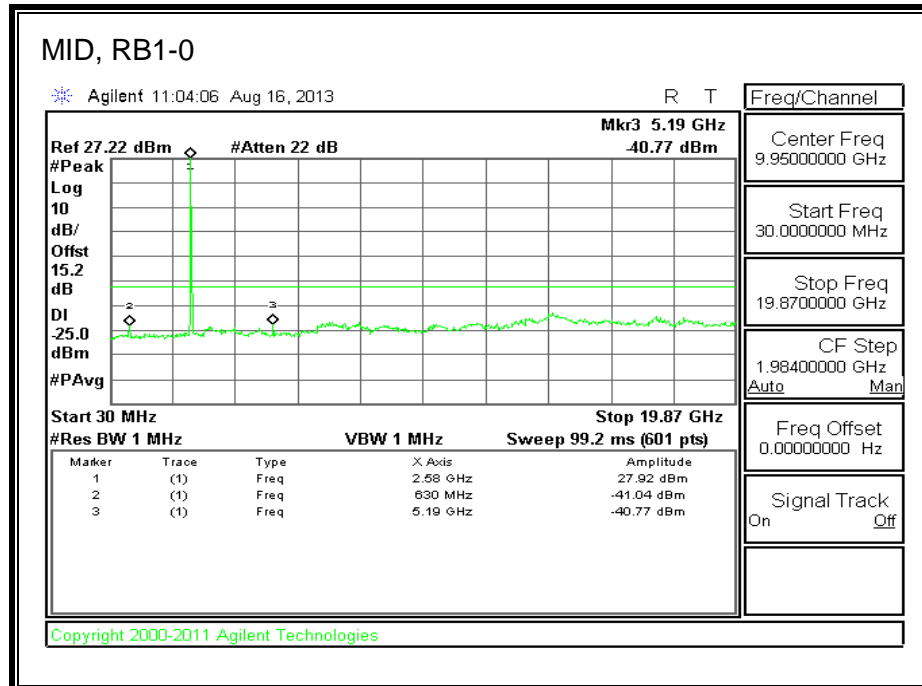
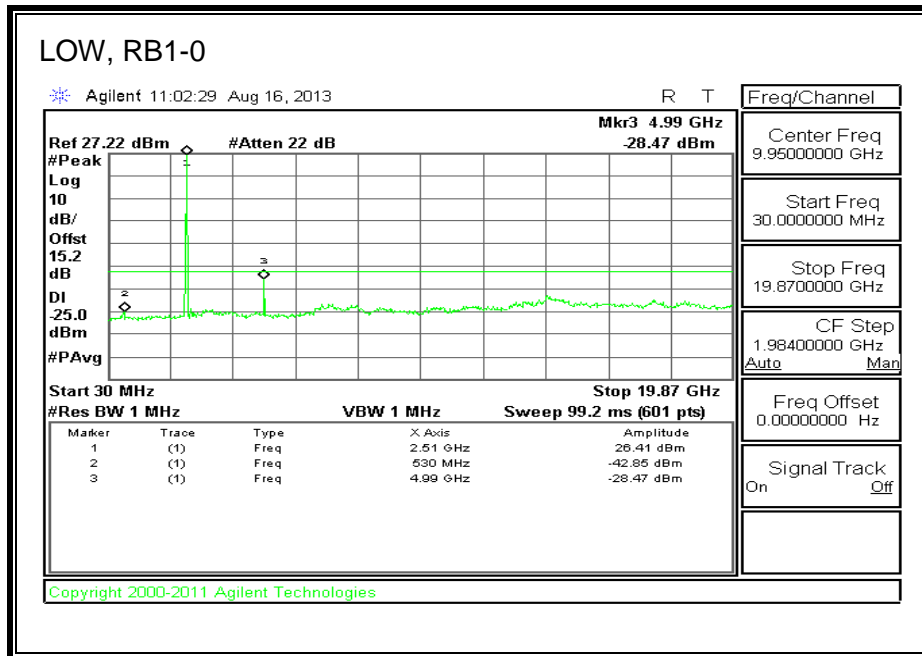
LTE 16QAM

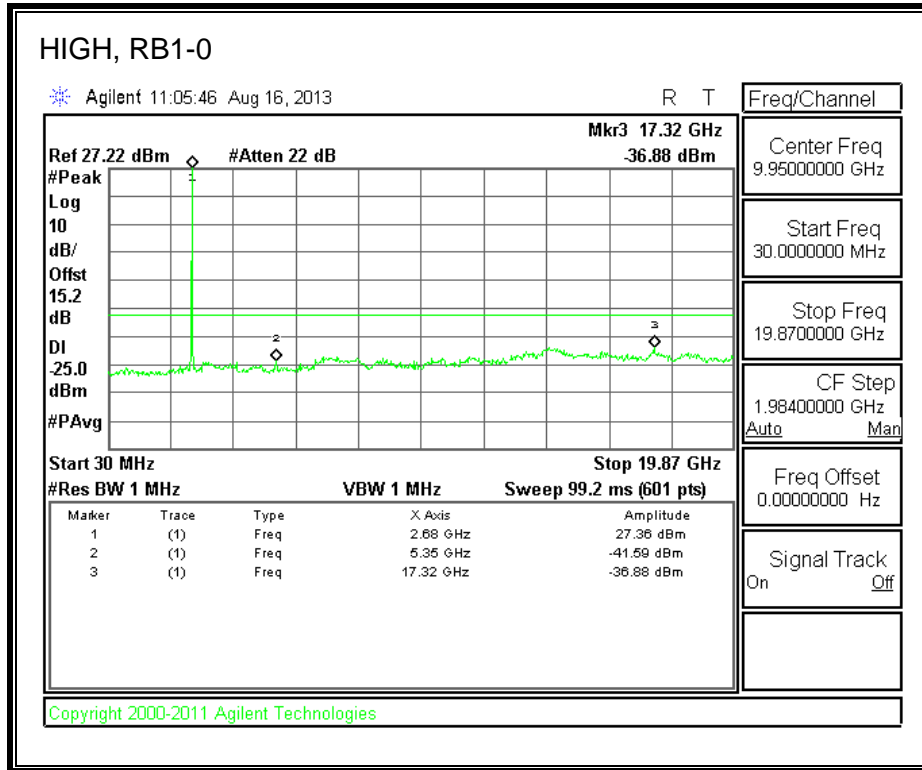




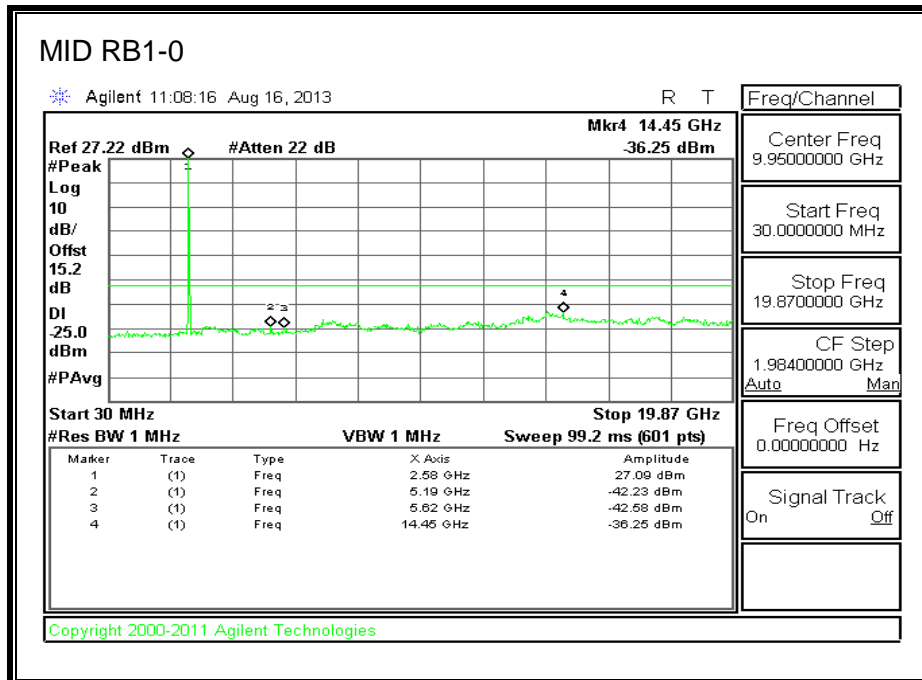
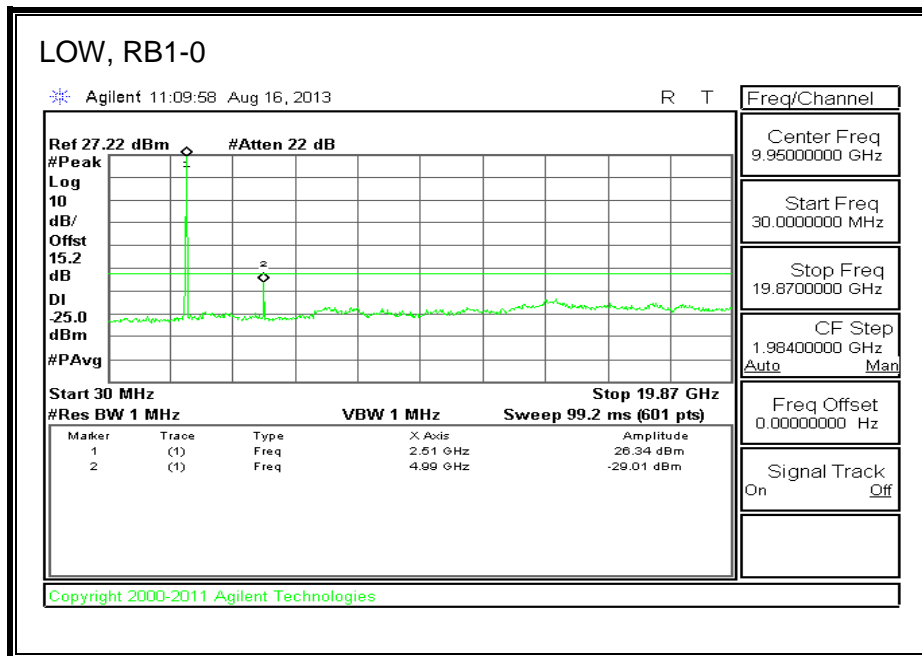
Band 41 (15.0 MHz BAND WIDTH)

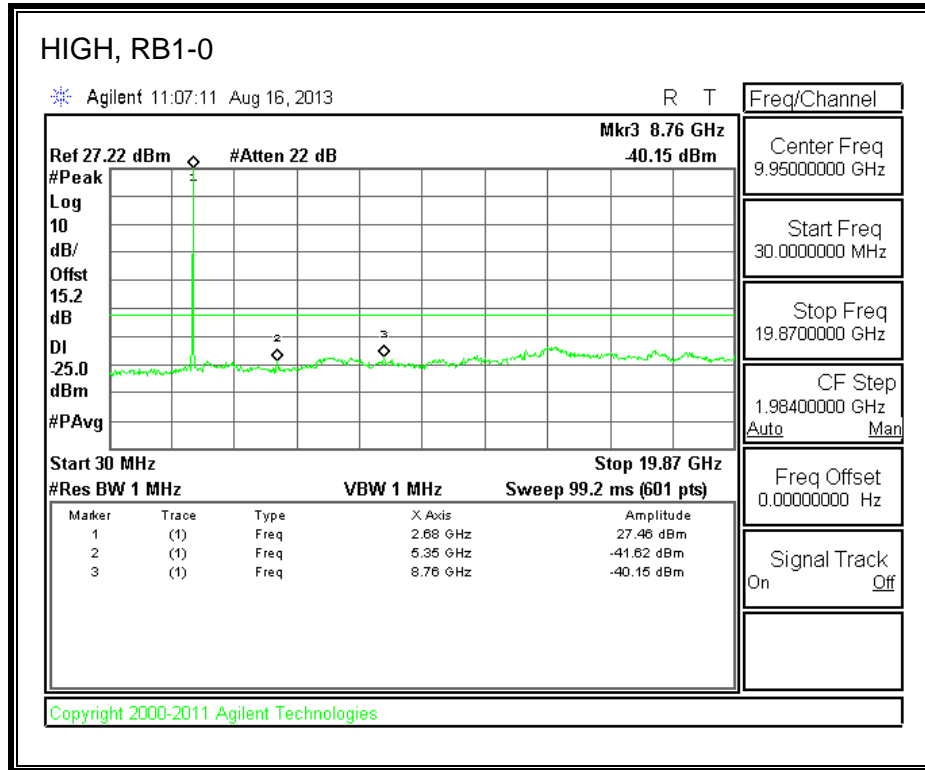
LTE QPSK





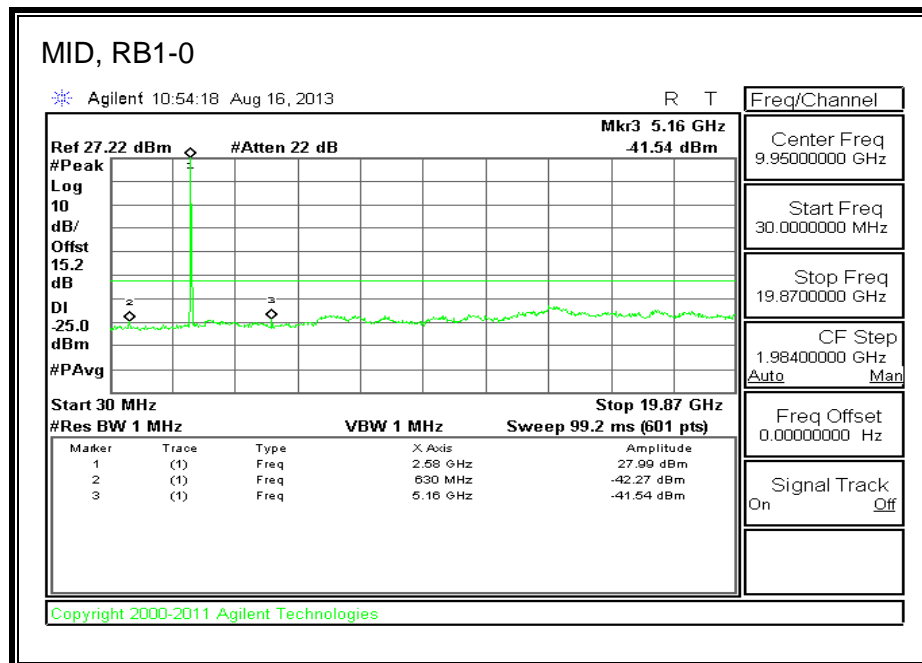
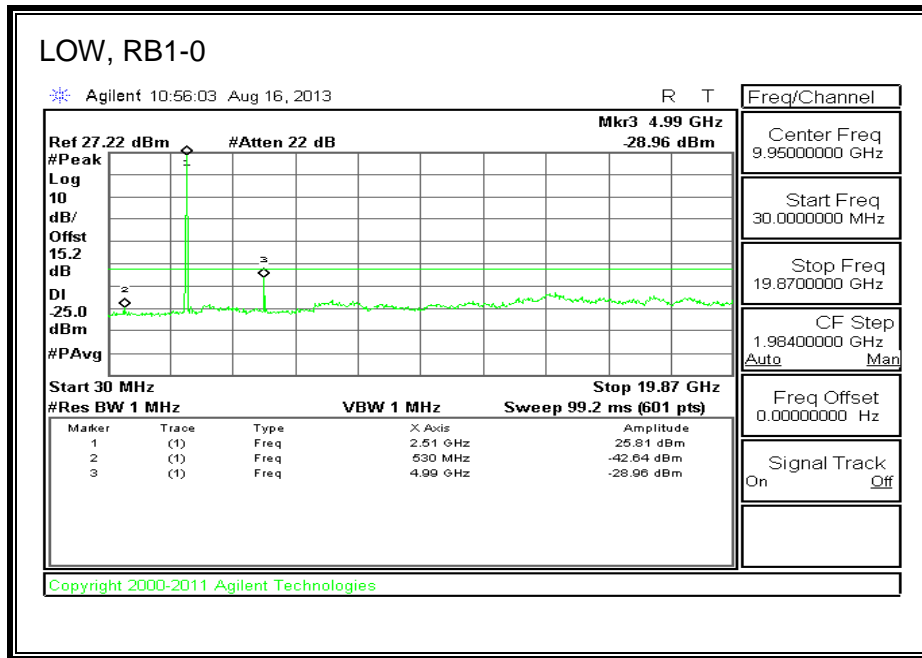
LTE 16QAM

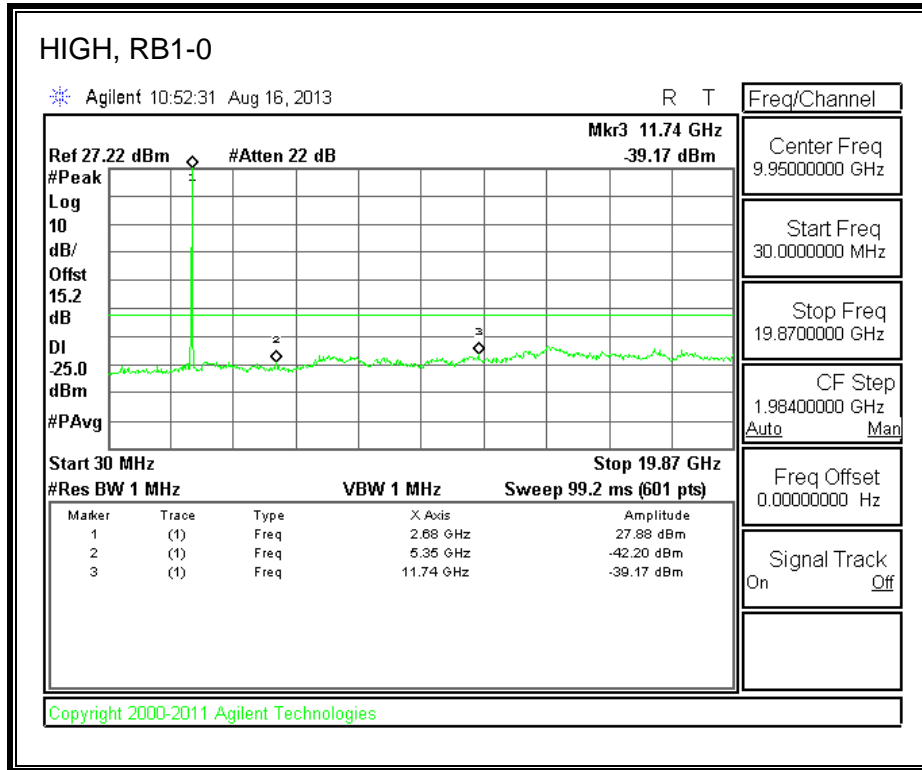




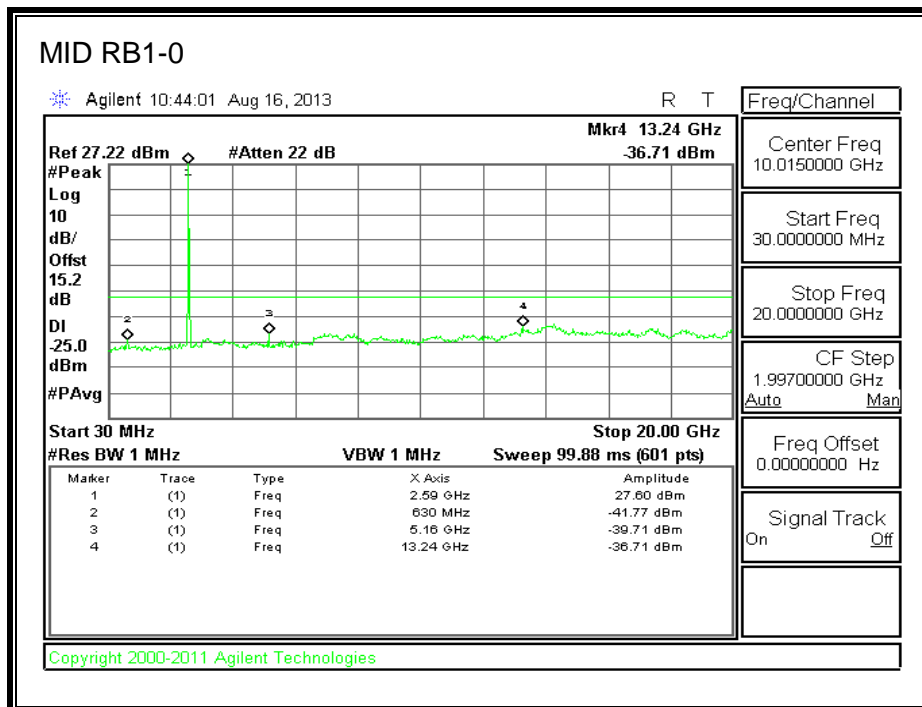
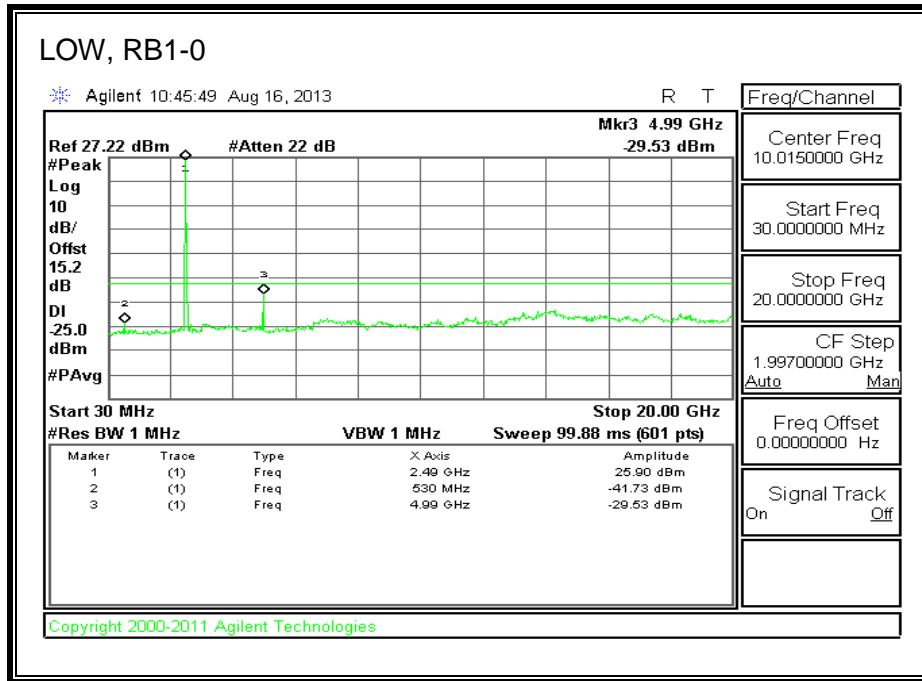
Band 41 (20.0 MHz BAND WIDTH)

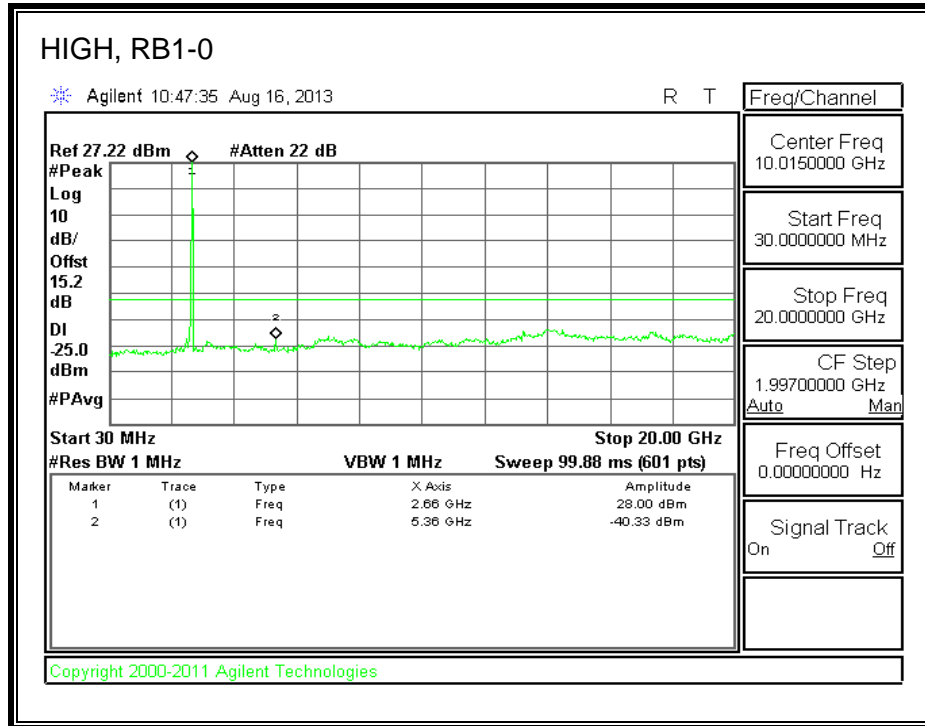
LTE QPSK





LTE 16QAM





8.6. FREQUENCY STABILITY

RULE PART(S)

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

LIMITS

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

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

§27.54 - The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

TEST PROCEDURE

Reference to KDB 971168 D01 v02r01

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°C is reached. Reference power supply voltage for these tests is 3.7Vdc.

Frequency Stability vs Voltage:

The peak frequency error is recorded (worst-case). The test voltage ranges from 3.30 to 4.2 VDC.

MODES TESTED

RESULTS

See the following pages.

8.6.1. FREQUENCY STABILITY RESULTS

CDMA2000 BC10

| Reference Frequency: BC10 Channel 580 Freq : 820.5MHz @ 20C | | | | |
|---|-----------------------------|---|----------------|-------------|
| Limit: to stay +/-2.5ppm = 2051.25 Hz | | | | |
| Power Supply (Vdc) | Environment Temperature (C) | Frequency Deviation Measured with Time Elapse | | |
| | | (MHz) | Delta (ppm) | Limit (ppm) |
| 3.7 | 50 | 820.4999951 | -0.00461 | 2.5 |
| 3.7 | 40 | 820.4999928 | -0.00341 | 2.5 |
| 3.7 | 30 | 820.4999902 | -0.00203 | 2.5 |
| 3.7 | 20 | 820.4999864 | 0.00000 | 2.5 |
| 3.7 | 10 | 820.4999858 | 0.00031 | 2.5 |
| 3.7 | 0 | 820.4999925 | -0.00322 | 2.5 |
| 3.7 | -10 | 820.4999940 | -0.00402 | 2.5 |
| 3.7 | -20 | 820.4999935 | -0.00377 | 2.5 |
| 3.7 | -30 | 820.4999949 | -0.00452 | 2.5 |

| Reference Frequency: BC10 Channel 580 Freq : 820.5MHz @ 20C | | | | |
|---|-------------------------|---|----------------|-------------|
| Limit: to stay +/-2.5ppm = 2051.25 Hz | | | | |
| Power Supply (Vdc) | Environment Temperature | Frequency Deviation Measured with Time Elapse | | |
| | | (MHz) | Delta (ppm) | Limit (ppm) |
| 3.7 | 20 | 820.4999864 | 0.00000 | 2.5 |
| 4.2 | 20 | 820.5000054 | -0.01011 | 2.5 |
| 3.3 | 20 | 820.4999915 | -0.00271 | 2.5 |

CDMA2000 BC0

| Reference Frequency: BC0 Channel 384 Freq : 836.52MHz @ 20C | | | | |
|---|-------------------------|---|----------------|-------------|
| Limit: to stay +/-2.5ppm = 2091.3 Hz | | | | |
| Power Supply (Vdc) | Environment Temperature | Frequency Deviation Measured with Time Elapse | | |
| | | (MHz) | Delta (ppm) | Limit (ppm) |
| 3.7 | 50 | 836.5199802 | 0.00501 | 2.5 |
| 3.7 | 40 | 836.5199831 | 0.00348 | 2.5 |
| 3.7 | 30 | 836.5199874 | 0.00119 | 2.5 |
| 3.7 | 20 | 836.5199896 | 0.00000 | 2.5 |
| 3.7 | 10 | 836.5199805 | 0.00484 | 2.5 |
| 3.7 | 0 | 836.5199809 | 0.00464 | 2.5 |
| 3.7 | -10 | 836.5199865 | 0.00167 | 2.5 |
| 3.7 | -20 | 836.5199881 | 0.00079 | 2.5 |
| 3.7 | -30 | 836.5199865 | 0.00166 | 2.5 |

| Reference Frequency: BC0 Channel 384 Freq : 836.52MHz @ 20C | | | | |
|---|-------------------------|---|----------------|-------------|
| Limit: to stay +/-2.5ppm = 2091.3 Hz | | | | |
| Power Supply (Vdc) | Environment Temperature | Frequency Deviation Measured with Time Elapse | | |
| | | (MHz) | Delta (ppm) | Limit (ppm) |
| 3.7 | 20 | 836.519990 | 0.00000 | 2.5 |
| 4.2 | 20 | 836.5199855 | 0.00223 | 2.5 |
| 3.3 | 20 | 836.5199904 | -0.00041 | 2.5 |

CDMA2000 BC1

| Reference Frequency: BC1 Channel 600 Freq : 1880MHz @ 20C | | | | |
|---|----------------------------|---|----------------|-------------|
| Limit: to stay +/-2.5ppm = 4700 Hz | | | | |
| Power Supply (Vdc) | Environment Temperature | Frequency Deviation Measured with Time Elapse | | |
| | | (MHz) | Delta (ppm) | Limit (ppm) |
| 3.7 | 50 | 1880.000026 | -0.00848 | 2.5 |
| 3.7 | 40 | 1880.000014 | -0.00227 | 2.5 |
| 3.7 | 30 | 1880.000013 | -0.00178 | 2.5 |
| 3.7 | 20 | 1880.000010 | 0.00000 | 2.5 |
| 3.7 | 10 | 1880.000015 | -0.00251 | 2.5 |
| 3.7 | 0 | 1880.000006 | 0.00194 | 2.5 |
| 3.7 | -10 | 1880.000016 | -0.00320 | 2.5 |
| 3.7 | -20 | 1880.000020 | -0.00528 | 2.5 |
| 3.7 | -30 | 1880.000020 | -0.00522 | 2.5 |

| Reference Frequency: BC1 Channel 600 Freq : 1880MHz @ 20C | | | | |
|---|----------------------------|---|----------------|-------------|
| Limit: to stay +/-2.5ppm = 4700 Hz | | | | |
| Power Supply (Vdc) | Environment Temperature | Frequency Deviation Measured with Time Elapse | | |
| | | (MHz) | Delta (ppm) | Limit (ppm) |
| 3.7 | 20 | 1880.000011 | 0.00000 | 2.5 |
| 4.2 | 20 | 1880.000001 | 0.00500 | 2.5 |
| 3.3 | 20 | 1880.000004 | 0.00330 | 2.5 |

LTE Band 25

| Reference Frequency: LTE25 Channel 26364 Freq : 1882.5MHz @ 20C | | | | |
|---|----------------------------|---|----------------|-------------|
| Limit: to stay +/-2.5ppm = 4706.25 Hz | | | | |
| Power Supply (Vdc) | Environment Temperature | Frequency Deviation Measured with Time Elapse | | |
| | | (MHz) | Delta (ppm) | Limit (ppm) |
| 3.7 | 50 | 1882.499996 | 0.00305 | 2.5 |
| 3.7 | 40 | 1882.500004 | -0.00129 | 2.5 |
| 3.7 | 30 | 1882.500002 | -0.00035 | 2.5 |
| 3.7 | 20 | 1882.500002 | 0.00000 | 2.5 |
| 3.7 | 10 | 1882.499993 | 0.00460 | 2.5 |
| 3.7 | 0 | 1882.499996 | 0.00301 | 2.5 |
| 3.7 | -10 | 1882.499991 | 0.00584 | 2.5 |
| 3.7 | -20 | 1882.499994 | 0.00430 | 2.5 |
| 3.7 | -30 | 1882.499998 | 0.00195 | 2.5 |

| Reference Frequency: LTE25 Channel 26364 Freq : 1882.5MHz @ 20C | | | | |
|---|----------------------------|---|----------------|-------------|
| Limit: to stay +/-2.5ppm = 4706.25 Hz | | | | |
| Power Supply (Vdc) | Environment Temperature | Frequency Deviation Measured with Time Elapse | | |
| | | (MHz) | Delta (ppm) | Limit (ppm) |
| 3.7 | 20 | 1882.500002 | 0.00000 | 2.5 |
| 4.2 | 20 | 1882.499998 | 0.00230 | 2.5 |
| 3.3 | 20 | 1882.499993 | 0.00487 | 2.5 |

LTE Band 26

| Reference Frequency: LTE26 Channel 26864 Freq : 831.5MHz @ 20C | | | | |
|--|-------------------------|---|----------------|-------------|
| Limit: to stay +/-2.5ppm = 2078.75 Hz | | | | |
| Power Supply (Vdc) | Environment Temperature | Frequency Deviation Measured with Time Elapse | | |
| | | (MHz) | Delta (ppm) | Limit (ppm) |
| 3.7 | 50 | 832.4999971 | 0.00089 | 2.5 |
| 3.7 | 40 | 832.4999973 | 0.00079 | 2.5 |
| 3.7 | 30 | 832.4999972 | 0.00082 | 2.5 |
| 3.7 | 20 | 832.4999988 | 0.00000 | 2.5 |
| 3.7 | 10 | 832.4999987 | 0.00002 | 2.5 |
| 3.7 | 0 | 832.5000015 | -0.00146 | 2.5 |
| 3.7 | -10 | 832.4999984 | 0.00018 | 2.5 |
| 3.7 | -20 | 832.4999995 | -0.00039 | 2.5 |
| 3.7 | -30 | 832.4999985 | 0.00014 | 2.5 |

| Reference Frequency: LTE26 Channel 26864 Freq : 831.5MHz @ 20C | | | | |
|--|-------------------------|---|----------------|-------------|
| Limit: to stay +/-2.5ppm = 2078.75 Hz | | | | |
| Power Supply (Vdc) | Environment Temperature | Frequency Deviation Measured with Time Elapse | | |
| | | (MHz) | Delta (ppm) | Limit (ppm) |
| 3.7 | 20 | 832.499999 | 0.00000 | 2.5 |
| 4.2 | 20 | 832.4999984 | 0.00021 | 2.5 |
| 3.3 | 20 | 832.4999984 | 0.00020 | 2.5 |

LTE Band 41

| Reference Frequency: LTE41 Channel 40620 Freq : 2593MHz @ 20C | | | | |
|---|----------------------------|---|-------------|-------------|
| Limit: to stay +/-2.5ppm = 6482.5 Hz | | | | |
| Power Supply (Vdc) | Environment Temperature | Frequency Deviation Measured with Time Elapse | | |
| | | (MHz) | Delta (ppm) | Limit (ppm) |
| 3.7 | 50 | 2592.999997 | 0.00110 | 2.5 |
| 3.7 | 40 | 2593.000003 | -0.00213 | 2.5 |
| 3.7 | 30 | 2593.000004 | -0.00285 | 2.5 |
| 3.7 | 20 | 2592.999999 | 0.00000 | 2.5 |
| 3.7 | 10 | 2593.000006 | -0.00349 | 2.5 |
| 3.7 | 0 | 2592.999994 | 0.00281 | 2.5 |
| 3.7 | -10 | 2593.000005 | -0.00326 | 2.5 |
| 3.7 | -20 | 2593.000004 | -0.00284 | 2.5 |
| 3.7 | -30 | 2593.000002 | -0.00159 | 2.5 |

| Reference Frequency: LTE41 Channel 40620 Freq : 2593MHz @ 20C | | | | |
|---|----------------------------|---|-------------|-------------|
| Limit: to stay +/-2.5ppm = 6482.5 Hz | | | | |
| Power Supply (Vdc) | Environment Temperature | Frequency Deviation Measured with Time Elapse | | |
| | | (MHz) | Delta (ppm) | Limit (ppm) |
| 3.7 | 20 | 2592.999999 | 0.00000 | 2.5 |
| 4.2 | 20 | 2592.999993 | 0.00372 | 2.5 |
| 3.3 | 20 | 2592.999994 | 0.00281 | 2.5 |

9. RADIATED TEST RESULTS

9.1. RADIATED POWER (ERP & EIRP)

RULE PART(S)

FCC: §2.1046, §22.913, §24.232, and § 90.635.

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 (h)(2) *Mobile and other user stations.* Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

TEST PROCEDURE

ANSI / TIA / EIA 603C Clause 2.2.17

Reference to KDB 971168 D01 v02r01

MODES TESTED

- CDMA2000 1xRTT BC10, BC0, BC1
- CDMA2000 EVDO BC10, BC0, BC1
- LTE Band 25
- LTE Band 26
- LTE Band 41

RESULTS

EIRP CDMA2000 1xRTT and 1xEVDO

| | Modulation | Channel | Frequency (MHz) | ERP | |
|------------|------------|---------|-----------------|-------|--------|
| | | | | dBm | mW |
| CDMA, BC10 | 1XRTT | 476 | 817.90 | 28.26 | 669.88 |
| | | 580 | 820.50 | 27.86 | 610.94 |
| | | 684 | 823.10 | 27.70 | 588.84 |
| | EVDO | 476 | 817.90 | 27.76 | 597.04 |
| | | 580 | 820.50 | 27.98 | 628.06 |
| | | 684 | 823.10 | 28.53 | 712.85 |
| CDMA, BC0 | 1XRTT | 1013 | 824.70 | 28.30 | 676.08 |
| | | 384 | 836.52 | 28.54 | 714.50 |
| | | 777 | 848.31 | 28.23 | 665.27 |
| | EVDO | 1013 | 824.70 | 28.44 | 698.23 |
| | | 384 | 836.52 | 29.72 | 937.56 |
| | | 777 | 848.31 | 28.45 | 699.84 |
| CDMA, BC1 | 1XRTT | 25 | 1851.25 | 26.52 | 448.75 |
| | | 600 | 1880.00 | 28.56 | 717.79 |
| | | 1175 | 1908.75 | 25.75 | 375.84 |
| | EVDO | 25 | 1851.25 | 25.99 | 397.19 |
| | | 600 | 1880.00 | 25.39 | 345.94 |
| | | 1175 | 1908.75 | 23.69 | 233.88 |

EIRP LTE Band 25 (3.0 MHz BAND WIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP(Avg) | |
|--------------------|------------|---------|-----------|--------|
| | | | dBm | mW |
| 3.0 MHZ BAND QPSK | 1/0 | 1851.5 | 26.18 | 414.95 |
| | | 1882.5 | 26.15 | 412.10 |
| | | 1913.5 | 24.83 | 304.09 |
| 3.0 MHZ BAND 16QAM | 1/0 | 1851.5 | 25.57 | 360.58 |
| | | 1882.5 | 25.60 | 363.08 |
| | | 1913.5 | 23.98 | 250.03 |

EIRP LTE Band 25 (5.0 MHz BANDWIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP(Avg) | |
|--------------------|------------|---------|-----------|--------|
| | | | dBm | mW |
| 5.0 MHZ BAND QPSK | 1/0 | 1852.5 | 26.03 | 400.87 |
| | | 1882.5 | 25.59 | 362.24 |
| | | 1912.5 | 25.39 | 345.94 |
| 5.0 MHZ BAND 16QAM | 1/0 | 1852.5 | 25.55 | 358.92 |
| | | 1882.5 | 24.74 | 297.85 |
| | | 1912.5 | 24.54 | 284.45 |

EIRP LTE Band 25 (10.0 MHz BAND WIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP(Avg) | |
|------------------------|------------|---------|-----------|--------|
| | | | dBm | mW |
| 10.0 MHZ BAND QPSK | 1/0 | 1855.0 | 26.60 | 457.09 |
| | | 1882.5 | 27.22 | 527.23 |
| | | 1910.0 | 25.62 | 364.75 |
| 10.0 MHZ BAND 16QAM | 1/0 | 1855.0 | 25.98 | 396.28 |
| | | 1882.5 | 26.52 | 448.75 |
| | | 1910.0 | 24.38 | 274.16 |

ERP LTE Band 26 (1.4 MHz BAND WIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP(Avg) | |
|-----------------------|------------|---------|-----------|--------|
| | | | dBm | mW |
| 1.4 MHZ BAND QPSK | 1/0 | 817.7 | 24.79 | 301.30 |
| | | 831.5 | 26.91 | 490.91 |
| | | 848.3 | 27.58 | 572.80 |
| 1.4 MHZ BAND 16QAM | 1/0 | 817.7 | 23.81 | 240.44 |
| | | 831.5 | 26.15 | 412.10 |
| | | 848.3 | 26.82 | 480.84 |

ERP LTE Band 26 (3.0 MHz BAND WIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP(Avg) | |
|-----------------------|------------|---------|-----------|--------|
| | | | dBm | mW |
| 3.0 MHZ BAND QPSK | 1/0 | 818.5 | 25.42 | 348.34 |
| | | 831.5 | 27.90 | 616.60 |
| | | 847.5 | 27.77 | 598.41 |
| 3.0 MHZ BAND 16QAM | 1/0 | 818.5 | 24.22 | 264.24 |
| | | 831.5 | 26.86 | 485.29 |
| | | 847.5 | 26.81 | 479.73 |

ERP LTE Band 26 (5.0 MHz BAND WIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP(Avg) | |
|-----------------------|------------|---------|-----------|--------|
| | | | dBm | mW |
| 5.0 MHZ BAND QPSK | 1/0 | 820.5 | 25.97 | 395.37 |
| | | 831.5 | 29.22 | 835.60 |
| | | 846.5 | 29.16 | 824.14 |
| 5.0 MHZ BAND 16QAM | 1/0 | 820.5 | 25.09 | 322.85 |
| | | 831.5 | 28.32 | 679.20 |
| | | 846.5 | 28.42 | 695.02 |

EIRP LTE Band 41 (10.0 MHz BAND WIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP(Avg) | |
|------------------------|------------|---------|-----------|--------|
| | | | dBm | mW |
| 10.0 MHZ BAND QPSK | 1/0 | 2501.0 | 27.41 | 550.81 |
| | | 2593.0 | 25.90 | 389.05 |
| | | 2685.0 | 28.84 | 765.60 |
| 10.0 MHZ BAND 16QAM | 1/0 | 2501.0 | 27.51 | 563.64 |
| | | 2593.0 | 26.06 | 403.65 |
| | | 2685.0 | 28.68 | 737.90 |

EIRP LTE Band 41 (15.0 MHz BAND WIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP(Avg) | |
|------------------------|------------|---------|-----------|--------|
| | | | dBm | mW |
| 15.0 MHZ BAND QPSK | 1/0 | 2503.5 | 28.05 | 638.26 |
| | | 2593.0 | 29.19 | 829.85 |
| | | 2682.5 | 29.07 | 807.24 |
| 15.0 MHZ BAND 16QAM | 1/0 | 2503.5 | 28.20 | 660.69 |
| | | 2593.0 | 29.20 | 831.76 |
| | | 2682.5 | 29.07 | 807.24 |

EIRP LTE Band 41 (20.0 MHZ BAND WIDTH)

| Mode | RB/RB SIZE | f (MHz) | EIRP(Avg) | |
|------------------------|------------|---------|-----------|---------|
| | | | dBm | mW |
| 20.0 MHZ BAND QPSK | 1/0 | 2506.0 | 28.31 | 677.64 |
| | | 2593.0 | 29.30 | 851.14 |
| | | 2680.0 | 29.62 | 916.22 |
| 20.0 MHZ BAND 16QAM | 1/0 | 2506.0 | 28.36 | 685.49 |
| | | 2593.0 | 30.02 | 1004.62 |
| | | 2680.0 | 29.49 | 889.20 |

The unit can utilize an external dock and install higher gain antenna; the maximum antenna can be use and compliant with MPE requirement:

| BANDS | Maxium Output Power(dBm) | Antenna Gain (dBi) | ERIP | ERP | ERP Limit |
|-------------------------------|--------------------------|--------------------|------|-------|-----------|
| BC10, 817 – 824MHz | 24.5 | 9.4 | 33.9 | 31.75 | 50 |
| BC0, Cell 824 – 849MHz | 24.5 | 9.4 | 33.9 | 31.75 | 38 |
| LTE Band 26, 817.7 – 823.3MHz | 24 | 9.4 | 33.4 | 31.25 | 50 |
| LTE Band 26, 824.7 – 847.3MHz | 24 | 9.4 | 33.4 | 31.25 | 38 |

| BANDS | Maxium Output Power(dBm) | Antenna Gain (dBi) | EIRP | EIRP Limit |
|---------------------------------|--------------------------|--------------------|------|------------|
| BC1, PCS 1850 – 1910MHz | 23.5 | 9 | 32.5 | 33 |
| LTE Band 25, 1851.5 – 1913.5MHz | 24 | 9 | 33 | 33 |
| LTE Band 41, 2501 - 2685MHz | 24 | 9 | 33 | 33 |

9.1.1. CDMA, BC10

1xRTT

| High Frequency Substitution Measurement UL Verification Services, Inc. Chamber C | | | | | | | | |
|---|--------------------------|--------------------|--------------------|-----------------------|--------------|----------------|----------------|-------|
| Company: | Netgear | | | | | | | |
| Project #: | 13U15465 | | | | | | | |
| Date: | 08/21/13 | | | | | | | |
| Test Engineer: | K. Nguyen | | | | | | | |
| Configuration: | EUT with AC Adapter | | | | | | | |
| Mode: | CDMA 1xRTT BC10, Average | | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Sunol T185, and 3m Chamber N-type Cable | | | | | | | | |
| Substitution: Dipole S/N: 00022117, 4ft SMA Cable (SN # 245200 001) Warehouse. | | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBd) | ERP (dBm) | Limit (dBm) | Margin (dB) | Notes |
| 817.90 | 15.40 | V | 0.5 | 0.0 | 14.90 | 38.5 | -23.5 | X+AC |
| 817.90 | 28.76 | H | 0.5 | 0.0 | 28.26 | 38.5 | -10.2 | X+AC |
| 820.50 | 15.46 | V | 0.5 | 0.0 | 14.96 | 38.5 | -23.5 | X+AC |
| 820.50 | 28.36 | H | 0.5 | 0.0 | 27.86 | 38.5 | -10.6 | X+AC |
| 823.10 | 15.16 | V | 0.5 | 0.0 | 14.66 | 38.5 | -23.8 | X+AC |
| 823.10 | 28.20 | H | 0.5 | 0.0 | 27.70 | 38.5 | -10.7 | X+AC |
| Rev. 3.17.11 | | | | | | | | |

EVDO REV 0

| High Frequency Substitution Measurement UL Verification Services, Inc. Chamber A | | | | | | | | |
|---|---------------------------|--------------------|--------------------|-----------------------|--------------|----------------|----------------|-------|
| Company: | Netgear | | | | | | | |
| Project #: | 13U15465 | | | | | | | |
| Date: | 08/27/13 | | | | | | | |
| Test Engineer: | K. Nguyen | | | | | | | |
| Configuration: | EUT with AC Adapter | | | | | | | |
| Mode: | CDMA 1xEVDO BC10, Average | | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Sunol T477, and 5m Chamber N-type Cable | | | | | | | | |
| Substitution: Dipole S/N: 00022117, 4ft SMA Cable | | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBd) | ERP (dBm) | Limit (dBm) | Margin (dB) | Notes |
| 817.90 | 22.11 | V | 0.5 | 0.0 | 21.61 | 38.5 | -16.8 | X+AC |
| 817.90 | 28.26 | H | 0.5 | 0.0 | 27.76 | 38.5 | -10.7 | X+AC |
| 820.50 | 22.10 | V | 0.5 | 0.0 | 21.60 | 38.5 | -16.8 | X+AC |
| 820.50 | 28.48 | H | 0.5 | 0.0 | 27.98 | 38.5 | -10.5 | X+AC |
| 823.10 | 22.46 | V | 0.5 | 0.0 | 21.96 | 38.5 | -16.5 | X+AC |
| 823.10 | 29.03 | H | 0.5 | 0.0 | 28.53 | 38.5 | -9.9 | X+AC |
| Rev. 3.17.11 | | | | | | | | |

9.1.2. CDMA, BC0

1xRTT

| High Frequency Substitution Measurement UL Verification Services, Inc. Chamber C | | | | | | | | | |
|---|---------------------|-------------------------|--------------------|-----------------------|--------------|----------------|----------------|----------|--|
| Company: | | Netgear | | | | | | | |
| Project #: | | 13U15465 | | | | | | | |
| Date: | | 08/21/13 | | | | | | | |
| Test Engineer: | | K. Nguyen | | | | | | | |
| Configuration: | | EUT with AC Adapter | | | | | | | |
| Mode: | | CDMA 1xRTT BC0, Average | | | | | | | |
| Test Equipment: | | | | | | | | | |
| Receiving: Sunol T185, and 3m Chamber N-type Cable (Setup this one for testing EUT) | | | | | | | | | |
| Substitution: Dipole S/N: 00022117, 4ft SMA Cable (SN # 245200 001) Warehouse. | | | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBd) | ERP (dBm) | Limit (dBm) | Margin (dB) | Notes | |
| 824.70 | 14.60 | V | 0.5 | 0.0 | 14.10 | 38.5 | -24.3 | X+AC | |
| 824.70 | 28.80 | H | 0.5 | 0.0 | 28.30 | 38.5 | -10.1 | X+AC | |
| 836.52 | 15.77 | V | 0.5 | 0.0 | 15.27 | 38.5 | -23.2 | X+AC | |
| 836.52 | 29.04 | H | 0.5 | 0.0 | 28.54 | 38.5 | -9.9 | X+AC | |
| 836.52 | 14.28 | V | 0.5 | 0.0 | 13.78 | 38.5 | -24.7 | Y+AC | |
| 836.52 | 27.43 | H | 0.5 | 0.0 | 26.93 | 38.5 | -11.5 | Y+AC | |
| 836.52 | 23.11 | V | 0.5 | 0.0 | 22.61 | 38.5 | -15.8 | Z+AC | |
| 836.52 | 15.83 | H | 0.5 | 0.0 | 15.33 | 38.5 | -23.1 | Z+AC | |
| 836.52 | 28.07 | H | 0.5 | 0.0 | 27.57 | 38.5 | -10.9 | X w/o AC | |
| 848.31 | 17.40 | V | 0.5 | 0.0 | 16.90 | 38.5 | -21.5 | X+AC | |
| 848.31 | 28.73 | H | 0.5 | 0.0 | 28.23 | 38.5 | -10.2 | X+AC | |
| Rev. 3.17.11 | | | | | | | | | |

EVDO REV 0

High Frequency Substitution Measurement
UL Verification Services, Inc. Chamber A

Company: Netgear
Project #: 13U15465
Date: 08/27/13
Test Engineer: K. Nguyen
Configuration: EUT with AC Adapter
Mode: CDMA 1xEVDO BC0, Average

Test Equipment:
 Receiving: Sunol T477, and 5m Chamber N-type Cable
 Substitution: Dipole S/N: 00022117, 4ft SMA Cable

| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Gain (dBd) | ERP (dBm) | Limit (dBm) | Margin (dB) | Notes |
|----------|---------------------|--------------------|--------------------|---------------|--------------|----------------|----------------|-------|
| 824.70 | 22.03 | V | 0.5 | 0.0 | 21.53 | 38.5 | -16.9 | X+AC |
| 824.70 | 28.94 | H | 0.5 | 0.0 | 28.44 | 38.5 | -10.0 | X+AC |
| 836.52 | 20.80 | V | 0.5 | 0.0 | 20.30 | 38.5 | -18.1 | X+AC |
| 836.52 | 30.22 | H | 0.5 | 0.0 | 29.72 | 38.5 | -8.7 | X+AC |
| 848.31 | 20.60 | V | 0.5 | 0.0 | 20.10 | 38.5 | -18.3 | X+AC |
| 848.31 | 28.95 | H | 0.5 | 0.0 | 28.45 | 38.5 | -10.0 | X+AC |

Rev. 3.17.11

9.1.3. CDMA, BC1

1xRTT

| High Frequency Substitution Measurement UL Verification Services, Inc. Chamber C | | | | | | | | |
|---|---------------------|-------------------------------|--------------------|-----------------------|---------------|----------------|---------------|-------|
| Company: | | Netgear | | | | | | |
| Project #: | | 13U15465 | | | | | | |
| Date: | | 08/21/13 | | | | | | |
| Test Engineer: | | K. Nguyen | | | | | | |
| Configuration: | | EUT with AC Adapter | | | | | | |
| Mode: | | CDMA2000, 1xRTT, BC1, Average | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T119, and Chamber C SMA Cables | | | | | | | | |
| Substitution: Horn T217 Substitution, 4ft SMA Cable 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 | 15.5 | V | 1.50 | 8.62 | 22.61 | 33.0 | -10.4 | Y |
| 1.851 | 19.6 | H | 1.50 | 8.47 | 26.52 | 33.0 | -6.5 | Y |
| Mid Ch | | | | | | | | |
| 1.880 | 15.9 | V | 1.50 | 8.46 | 22.82 | 33.0 | -10.2 | Y |
| 1.880 | 21.7 | H | 1.50 | 8.36 | 28.56 | 33.0 | -4.4 | Y |
| High Ch | | | | | | | | |
| 1.909 | 16.5 | V | 1.50 | 8.30 | 23.29 | 33.0 | -9.7 | Y |
| 1.909 | 19.0 | H | 1.50 | 8.25 | 25.75 | 33.0 | -7.3 | Y |
| Rev. 3.17.11 | | | | | | | | |

EVDO REV 0

| High Frequency Substitution Measurement UL Verification Services, Inc. Chamber A | | | | | | | | | |
|---|---------------------|--------------------------|--------------------|-----------------------|---------------|----------------|---------------|-------|--|
| Company: | | Netgear | | | | | | | |
| Project #: | | 13U15465 | | | | | | | |
| Date: | | 08/27/13 | | | | | | | |
| Test Engineer: | | K. Nguyen | | | | | | | |
| Configuration: | | EUT with AC Adapter | | | | | | | |
| Mode: | | CDMA 1xEVDO BC1, Average | | | | | | | |
| Test Equipment: | | | | | | | | | |
| Receiving: Horn T136, and Chamber C SMA Cables | | | | | | | | | |
| Substitution: Horn T217 Substitution, 4ft SMA Cable 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 | | | | | | | | | |
| 1.85125 | 10.1 | V | 1.50 | 8.62 | 17.24 | 33.0 | -15.8 | Y | |
| 1.85125 | 19.0 | H | 1.50 | 8.47 | 25.99 | 33.0 | -7.0 | Y | |
| Mid Ch | | | | | | | | | |
| 1.88000 | 11.7 | V | 1.50 | 8.46 | 18.62 | 33.0 | -14.4 | Y | |
| 1.88000 | 18.5 | H | 1.50 | 8.36 | 25.39 | 33.0 | -7.6 | Y | |
| High Ch | | | | | | | | | |
| 1.90875 | 11.8 | V | 1.50 | 8.30 | 18.61 | 33.0 | -14.4 | Y | |
| 1.90875 | 16.9 | H | 1.50 | 8.25 | 23.69 | 33.0 | -9.3 | Y | |
| Rev. 3.17.11 | | | | | | | | | |

9.1.4. LTE BAND 25

EIRP LTE QPSK Band 25 (3.0 MHz BANDWIDTH)

| High Frequency Substitution Measurement UL Verification Services, Inc. Chamber C | | | | | | | | |
|---|---------------------|----------------------------------|--------------------|-----------------------|---------------|----------------|---------------|-------|
| Company: | | Netgear | | | | | | |
| Project #: | | 13U15465 | | | | | | |
| Date: | | 08/21/13 | | | | | | |
| Test Engineer: | | K. Nguyen | | | | | | |
| Configuration: | | EUT with AC Adapter | | | | | | |
| Mode: | | LTE BAND 25, QPSK, 3MHz, Average | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T119, and Chamber C SMA Cables | | | | | | | | |
| Substitution: Horn T217 Substitution, 4ft SMA Cable 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 | | | | | | | | |
| 1.8515 | 14.9 | V | 1.50 | 8.62 | 22.05 | 33.0 | -11.0 | Y |
| 1.8515 | 19.2 | H | 1.50 | 8.47 | 26.18 | 33.0 | -6.8 | Y |
| Mid Ch | | | | | | | | |
| 1.8825 | 14.6 | V | 1.50 | 8.46 | 21.58 | 33.0 | -11.4 | Y |
| 1.8825 | 19.3 | H | 1.50 | 8.36 | 26.15 | 33.0 | -6.9 | Y |
| High Ch | | | | | | | | |
| 1.9135 | 14.3 | V | 1.50 | 8.30 | 21.11 | 33.0 | -11.9 | Y |
| 1.9135 | 18.1 | H | 1.50 | 8.25 | 24.83 | 33.0 | -8.2 | Y |
| Rev. 3.17.11 | | | | | | | | |

EIRP LTE 16QAM Band 25 (3.0 MHz BANDWIDTH)

| High Frequency Substitution Measurement UL Verification Services, Inc. Chamber C | | | | | | | | |
|---|---------------------|-----------------------------------|--------------------|-----------------------|---------------|----------------|---------------|-------|
| Company: | | Netgear | | | | | | |
| Project #: | | 13U15465 | | | | | | |
| Date: | | 08/21/13 | | | | | | |
| Test Engineer: | | K. Nguyen | | | | | | |
| Configuration: | | EUT with AC Adapter | | | | | | |
| Mode: | | LTE BAND 25, 16QAM, 3MHz, Average | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T119, and Chamber C SMA Cables | | | | | | | | |
| Substitution: Horn T217 Substitution, 4ft SMA Cable 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 | | | | | | | | |
| 1.8515 | 14.1 | V | 1.50 | 8.62 | 21.19 | 33.0 | -11.8 | Y |
| 1.8515 | 18.6 | H | 1.50 | 8.47 | 25.57 | 33.0 | -7.4 | Y |
| Mid Ch | | | | | | | | |
| 1.8825 | 14.2 | V | 1.50 | 8.46 | 21.18 | 33.0 | -11.8 | Y |
| 1.8825 | 18.7 | H | 1.50 | 8.36 | 25.60 | 33.0 | -7.4 | Y |
| High Ch | | | | | | | | |
| 1.9135 | 13.4 | V | 1.50 | 8.30 | 20.23 | 33.0 | -12.8 | Y |
| 1.9135 | 17.2 | H | 1.50 | 8.25 | 23.98 | 33.0 | -9.0 | Y |
| Rev. 3.17.11 | | | | | | | | |

EIRP LTE QPSK Band 25 (5.0 MHz BANDWIDTH)

| High Frequency Substitution Measurement UL Verification Services, Inc. Chamber C | | | | | | | | |
|---|------------------|----------------------------------|-----------------|--------------------|------------|-------------|------------|-------|
| Company: | | Netgear | | | | | | |
| Project #: | | 13U15465 | | | | | | |
| Date: | | 08/22/13 | | | | | | |
| Test Engineer: | | K. Nguyen | | | | | | |
| Configuration: | | EUT with AC Adapter | | | | | | |
| Mode: | | LTE BAND 25, QPSK, 5MHz, Average | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T119, and Chamber C SMA Cables | | | | | | | | |
| Substitution: Horn T217 Substitution, 4ft SMA Cable 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 | | | | | | | | |
| 1.8525 | 14.0 | V | 1.50 | 8.62 | 21.08 | 33.0 | -11.9 | Y |
| 1.8525 | 19.1 | H | 1.50 | 8.47 | 26.03 | 33.0 | -7.0 | Y |
| Mid Ch | | | | | | | | |
| 1.8825 | 14.0 | V | 1.50 | 8.46 | 20.92 | 33.0 | -12.1 | Y |
| 1.8825 | 18.7 | H | 1.50 | 8.36 | 25.59 | 33.0 | -7.4 | Y |
| High Ch | | | | | | | | |
| 1.9125 | 14.6 | V | 1.50 | 8.30 | 21.35 | 33.0 | -11.7 | Y |
| 1.9125 | 18.6 | H | 1.50 | 8.25 | 25.39 | 33.0 | -7.6 | Y |
| Rev. 3.17.11 | | | | | | | | |

EIRP LTE 16QAM Band 25 (5.0 MHz BANDWIDTH)

| High Frequency Substitution Measurement UL Verification Services, Inc. Chamber C | | | | | | | | |
|---|------------------|-----------------------------------|-----------------|--------------------|------------|-------------|------------|-------|
| Company: | | Netgear | | | | | | |
| Project #: | | 13U15465 | | | | | | |
| Date: | | 08/22/13 | | | | | | |
| Test Engineer: | | K. Nguyen | | | | | | |
| Configuration: | | EUT with AC Adapter | | | | | | |
| Mode: | | LTE BAND 25, 16QAM, 5MHz, Average | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T119, and Chamber C SMA Cables | | | | | | | | |
| Substitution: Horn T217 Substitution, 4ft SMA Cable 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 | | | | | | | | |
| 1.8525 | 13.6 | V | 1.50 | 8.62 | 20.71 | 33.0 | -12.3 | Y |
| 1.8525 | 18.6 | H | 1.50 | 8.47 | 25.55 | 33.0 | -7.5 | Y |
| Mid Ch | | | | | | | | |
| 1.8825 | 13.2 | V | 1.50 | 8.46 | 20.19 | 33.0 | -12.8 | Y |
| 1.8825 | 17.9 | H | 1.50 | 8.36 | 24.74 | 33.0 | -8.3 | Y |
| High Ch | | | | | | | | |
| 1.9125 | 13.8 | V | 1.50 | 8.30 | 20.55 | 33.0 | -12.5 | Y |
| 1.9125 | 17.8 | H | 1.50 | 8.25 | 24.54 | 33.0 | -8.5 | Y |
| Rev. 3.17.11 | | | | | | | | |

EIRP LTE QPSK Band 25 (10.0 MHz BANDWIDTH)

| High Frequency Substitution Measurement UL Verification Services, Inc. Chamber C | | | | | | | | |
|---|------------------|------------------------|-----------------|--------------------|------------|-------------|------------|-------|
| Company: | | Netgear | | | | | | |
| Project #: | | 13U15465 | | | | | | |
| Date: | | 08/20/13 | | | | | | |
| Test Engineer: | | K. Nguyen | | | | | | |
| Configuration: | | EUT with AC | | | | | | |
| Mode: | | LTE Band 25 - 10MHz BW | | | | | | |
| | | QPSK, Average, 1_0 | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T117, and Chamber C SMA Cables | | | | | | | | |
| Substitution: Horn T59 Substitution, 4ft SMA Cable (#244639 003) 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 | 16.6 | V | 1.50 | 7.94 | 23.06 | 33.0 | -9.9 | Y+AC |
| 1.855 | 20.0 | H | 1.50 | 8.14 | 26.60 | 33.0 | -6.4 | Y+AC |
| Mid Ch | | | | | | | | |
| 1.883 | 13.6 | V | 1.50 | 7.95 | 20.02 | 33.0 | -13.0 | X+AC |
| 1.883 | 18.8 | H | 1.50 | 8.26 | 25.53 | 33.0 | -7.5 | X+AC |
| 1.883 | 14.5 | V | 1.50 | 7.95 | 20.97 | 33.0 | -12.0 | Y+AC |
| 1.883 | 20.5 | H | 1.50 | 8.26 | 27.22 | 33.0 | -5.8 | Y+AC |
| 1.883 | 16.1 | V | 1.50 | 7.95 | 22.59 | 33.0 | -10.4 | Z+AC |
| 1.883 | 15.1 | H | 1.50 | 8.26 | 21.85 | 33.0 | -11.2 | Z+AC |
| 1.883 | 12.4 | V | 1.50 | 7.95 | 18.87 | 33.0 | -14.1 | Y W/O |
| 1.883 | 18.5 | H | 1.50 | 8.26 | 25.26 | 33.0 | -7.7 | Y W/O |
| High Ch | | | | | | | | |
| 1.910 | 13.4 | V | 1.50 | 7.97 | 19.82 | 33.0 | -13.2 | Y+AC |
| 1.910 | 18.7 | H | 1.50 | 8.38 | 25.62 | 33.0 | -7.4 | Y+AC |
| Rev. 3.17.11 | | | | | | | | |

EIRP LTE 16QAM Band 25 (10.0 MHz BANDWIDTH)

| High Frequency Substitution Measurement UL Verification Services, Inc. Chamber C | | | | | | | | |
|---|---------------------|---|--------------------|-----------------------|---------------|----------------|---------------|-------|
| Company: | | Netgear | | | | | | |
| Project #: | | 13U15465 | | | | | | |
| Date: | | 08/20/13 | | | | | | |
| Test Engineer: | | K. Nguyen | | | | | | |
| Configuration: | | EUT with AC | | | | | | |
| Mode: | | LTE Band 25 - 10MHz BW 16QAM, Average, 1_0 | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T117, and Chamber C SMA Cables | | | | | | | | |
| Substitution: Horn T59 Substitution, 4ft SMA Cable (#244639 003) 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 | 16.2 | V | 1.50 | 7.94 | 22.60 | 33.0 | -10.4 | Y+AC |
| 1.855 | 19.3 | H | 1.50 | 8.14 | 25.98 | 33.0 | -7.0 | Y+AC |
| Mid Ch | | | | | | | | |
| 1.883 | 14.3 | V | 1.50 | 7.95 | 20.74 | 33.0 | -12.3 | Y+AC |
| 1.883 | 19.8 | H | 1.50 | 8.26 | 26.52 | 33.0 | -6.5 | Y+AC |
| High Ch | | | | | | | | |
| 1.910 | 12.2 | V | 1.50 | 7.97 | 18.67 | 33.0 | -14.3 | Y+AC |
| 1.910 | 17.5 | H | 1.50 | 8.38 | 24.38 | 33.0 | -8.6 | Y+AC |
| Rev. 3.17.11 | | | | | | | | |

9.1.5. LTE BAND 26

ERP LTE QPSK Band 26 (1.4 MHz BANDWIDTH)

| High Frequency Substitution Measurement UL Verification Services, Inc. Chamber C | | | | | | | | | |
|---|---------------------|-------------------------|--------------------|-----------------------|--------------|----------------|----------------|-------|--|
| Company: | | Netgear | | | | | | | |
| Project #: | | 13U15465 | | | | | | | |
| Date: | | 08/20/13 | | | | | | | |
| Test Engineer: | | K. Nguyen | | | | | | | |
| Configuration: | | EUT with AC Adapter | | | | | | | |
| Mode: | | LTE Band 26 - 1.4MHz BW | | | | | | | |
| | | QPSK, Average, 1_0 | | | | | | | |
| Test Equipment: | | | | | | | | | |
| Receiving: Sunol T185, and 3m Chamber N-type Cable (Setup this one for testing EUT) | | | | | | | | | |
| Substitution: Dipole S/N: 00022117, 4ft SMA Cable (SN # 245200 001) Warehouse. | | | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBd) | ERP (dBm) | Limit (dBm) | Margin (dB) | Notes | |
| 814.70 | 11.41 | V | 0.5 | 0.0 | 10.91 | 38.5 | -27.5 | X | |
| 814.70 | 25.29 | H | 0.5 | 0.0 | 24.79 | 38.5 | -13.7 | X | |
| 831.50 | 12.32 | V | 0.5 | 0.0 | 11.82 | 38.5 | -26.6 | X | |
| 831.50 | 27.41 | H | 0.5 | 0.0 | 26.91 | 38.5 | -11.5 | X | |
| 848.30 | 14.13 | V | 0.5 | 0.0 | 13.63 | 38.5 | -24.8 | X | |
| 848.30 | 28.08 | H | 0.5 | 0.0 | 27.58 | 38.5 | -10.9 | X | |
| Rev. 3.17.11 | | | | | | | | | |

ERP LTE 16QAM Band 26 (1.4 MHz BANDWIDTH)

| High Frequency Substitution Measurement UL Verification Services, Inc. Chamber C | | | | | | | | |
|---|---------------------|--|--------------------|-----------------------|--------------|----------------|----------------|-------|
| Company: | | Netgear | | | | | | |
| Project #: | | 13U15465 | | | | | | |
| Date: | | 08/20/13 | | | | | | |
| Test Engineer: | | K. Nguyen | | | | | | |
| Configuration: | | EUT with AC Adapter | | | | | | |
| Mode: | | LTE Band 26 - 1.4MHz BW 16QAM, Average, 1_0 | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Sunol T185, and 3m Chamber N-type Cable (Setup this one for testing EUT) | | | | | | | | |
| Substitution: Dipole S/N: 00022117, 4ft SMA Cable (SN # 245200 001) Warehouse. | | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBd) | ERP (dBm) | Limit (dBm) | Margin (dB) | Notes |
| 814.70 | 10.38 | V | 0.5 | 0.0 | 9.88 | 38.5 | -28.6 | X |
| 814.70 | 24.31 | H | 0.5 | 0.0 | 23.81 | 38.5 | -14.6 | X |
| 831.50 | 11.50 | V | 0.5 | 0.0 | 11.00 | 38.5 | -27.4 | X |
| 831.50 | 26.65 | H | 0.5 | 0.0 | 26.15 | 38.5 | -12.3 | X |
| 848.30 | 13.21 | V | 0.5 | 0.0 | 12.71 | 38.5 | -25.7 | X |
| 848.30 | 27.32 | H | 0.5 | 0.0 | 26.82 | 38.5 | -11.6 | X |
| Rev. 3.17.11 | | | | | | | | |

ERP LTE QPSK Band 26 (3.0 MHz BANDWIDTH)

| High Frequency Substitution Measurement UL Verification Services, Inc. Chamber C | | | | | | | | |
|---|---------------------|-----------------------|--------------------|-----------------------|--------------|----------------|----------------|-------|
| Company: | | Netgear | | | | | | |
| Project #: | | 13U15465 | | | | | | |
| Date: | | 08/20/13 | | | | | | |
| Test Engineer: | | K. Nguyen | | | | | | |
| Configuration: | | EUT with AC Adapter | | | | | | |
| Mode: | | LTE Band 26 - 3MHz BW | | | | | | |
| | | QPSK, Average, 1_0 | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Sunol T185, and 3m Chamber N-type Cable (Setup this one for testing EUT) | | | | | | | | |
| Substitution: Dipole S/N: 00022117, 4ft SMA Cable (SN # 245200 001) Warehouse. | | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBd) | ERP (dBm) | Limit (dBm) | Margin (dB) | Notes |
| 815.50 | 12.62 | V | 0.5 | 0.0 | 12.12 | 38.5 | -26.3 | X+AC |
| 815.50 | 25.92 | H | 0.5 | 0.0 | 25.42 | 38.5 | -13.0 | X+AC |
| 831.50 | 14.01 | V | 0.5 | 0.0 | 13.51 | 38.5 | -24.9 | X+AC |
| 831.50 | 28.40 | H | 0.5 | 0.0 | 27.90 | 38.5 | -10.5 | X+AC |
| 831.50 | 13.43 | V | 0.5 | 0.0 | 12.93 | 38.5 | -25.5 | Y+AC |
| 831.50 | 27.90 | H | 0.5 | 0.0 | 27.40 | 38.5 | -11.0 | Y+AC |
| 831.50 | 23.95 | V | 0.5 | 0.0 | 23.45 | 38.5 | -15.0 | Z+AC |
| 831.50 | 17.72 | H | 0.5 | 0.0 | 17.22 | 38.5 | -21.2 | Z+AC |
| 831.50 | 12.76 | V | 0.5 | 0.0 | 12.26 | 38.5 | -26.2 | X |
| 831.50 | 26.27 | H | 0.5 | 0.0 | 25.77 | 38.5 | -12.7 | X |
| 847.50 | 15.34 | V | 0.5 | 0.0 | 14.84 | 38.5 | -23.6 | X+AC |
| 847.50 | 28.27 | H | 0.5 | 0.0 | 27.77 | 38.5 | -10.7 | X+AC |
| Rev. 3.17.11 | | | | | | | | |

ERP LTE 16QAM Band 26 (3.0 MHz BANDWIDTH)

| High Frequency Substitution Measurement UL Verification Services, Inc. Chamber C | | | | | | | | |
|---|---------------------|--|--------------------|-----------------------|--------------|----------------|----------------|-------|
| Company: | | Netgear | | | | | | |
| Project #: | | 13U15465 | | | | | | |
| Date: | | 08/20/13 | | | | | | |
| Test Engineer: | | K. Nguyen | | | | | | |
| Configuration: | | EUT with AC Adapter | | | | | | |
| Mode: | | LTE Band 26 - 3MHz BW 16QAM, Average, 1_0 | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Sunol T185, and 3m Chamber N-type Cable (Setup this one for testing EUT) | | | | | | | | |
| Substitution: Dipole S/N: 00022117, 4ft SMA Cable (SN # 245200 001) Warehouse. | | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBd) | ERP (dBm) | Limit (dBm) | Margin (dB) | Notes |
| Low Channel | | | | | | | | |
| 815.50 | 12.07 | V | 0.5 | 0.0 | 11.57 | 38.5 | -26.9 | X+AC |
| 815.50 | 24.72 | H | 0.5 | 0.0 | 24.22 | 38.5 | -14.2 | X+AC |
| Mid Channel | | | | | | | | |
| 831.50 | 13.21 | V | 0.5 | 0.0 | 12.71 | 38.5 | -25.7 | X+AC |
| 831.50 | 27.36 | H | 0.5 | 0.0 | 26.86 | 38.5 | -11.6 | X+AC |
| High Channel | | | | | | | | |
| 847.50 | 14.16 | V | 0.5 | 0.0 | 13.66 | 38.5 | -24.8 | X+AC |
| 847.50 | 27.31 | H | 0.5 | 0.0 | 26.81 | 38.5 | -11.6 | X+AC |
| Rev. 3.17.11 | | | | | | | | |

ERP LTE QPSK Band 26 (5.0 MHz BANDWIDTH)

| High Frequency Substitution Measurement UL Verification Services, Inc. Chamber C | | | | | | | | |
|---|---------------------|-----------------------|--------------------|-----------------------|--------------|----------------|----------------|-------|
| Company: | | Netgear | | | | | | |
| Project #: | | 13U15465 | | | | | | |
| Date: | | 08/19/13 | | | | | | |
| Test Engineer: | | K. Nguyen | | | | | | |
| Configuration: | | EUT with AC Adapter | | | | | | |
| Mode: | | LTE Band 26 - 5MHz BW | | | | | | |
| | | QPSK, Average, 1_0 | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Sunol T185, and 3m Chamber N-type Cable (Setup this one for testing EUT) | | | | | | | | |
| Substitution: Dipole S/N: 00022117, 4ft SMA Cable (SN # 245200 001) Warehouse. | | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBd) | ERP (dBm) | Limit (dBm) | Margin (dB) | Notes |
| 814.70 | 16.71 | V | 0.5 | 0.0 | 16.21 | 38.5 | -22.2 | X+AC |
| 814.70 | 26.47 | H | 0.5 | 0.0 | 25.97 | 38.5 | -12.5 | X+AC |
| 831.50 | 16.19 | V | 0.5 | 0.0 | 15.69 | 38.5 | -22.8 | X+AC |
| 831.50 | 29.72 | H | 0.5 | 0.0 | 29.22 | 38.5 | -9.2 | X+AC |
| 831.50 | 17.21 | V | 0.5 | 0.0 | 16.71 | 38.5 | -21.7 | Y+AC |
| 831.50 | 29.03 | H | 0.5 | 0.0 | 28.53 | 38.5 | -9.9 | Y+AC |
| 831.50 | 26.00 | V | 0.5 | 0.0 | 25.50 | 38.5 | -12.9 | Z+AC |
| 831.50 | 21.75 | H | 0.5 | 0.0 | 21.25 | 38.5 | -17.2 | Z+AC |
| 831.50 | 14.85 | V | 0.5 | 0.0 | 14.35 | 38.5 | -24.1 | X |
| 831.50 | 27.86 | H | 0.5 | 0.0 | 27.36 | 38.5 | -11.1 | X |
| 848.30 | 18.60 | V | 0.5 | 0.0 | 18.10 | 38.5 | -20.3 | X+AC |
| 848.30 | 29.66 | H | 0.5 | 0.0 | 29.16 | 38.5 | -9.3 | X+AC |
| Rev. 3.17.11 | | | | | | | | |

ERP LTE 16QAM Band 26 (5.0 MHz BANDWIDTH)

| High Frequency Substitution Measurement UL Verification Services, Inc. Chamber C | | | | | | | | |
|---|------------------|--|-----------------|--------------------|-----------|-------------|-------------|-------|
| Company: | | Netgear | | | | | | |
| Project #: | | 13U15465 | | | | | | |
| Date: | | 08/19/13 | | | | | | |
| Test Engineer: | | K. Nguyen | | | | | | |
| Configuration: | | EUT with AC Adapter | | | | | | |
| Mode: | | LTE Band 26 - 5MHz BW 16QAM, Average, 1_0 | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Sunol T185, and 3m Chamber N-type Cable (Setup this one for testing EUT) | | | | | | | | |
| Substitution: Dipole S/N: 00022117, 4ft SMA Cable (SN # 245200 001) Warehouse. | | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBd) | ERP (dBm) | Limit (dBm) | Margin (dB) | Notes |
| Low Channel | | | | | | | | |
| 814.70 | 15.83 | V | 0.5 | 0.0 | 15.33 | 38.5 | -23.1 | X+AC |
| 814.70 | 25.59 | H | 0.5 | 0.0 | 25.09 | 38.5 | -13.4 | X+AC |
| Mid Channel | | | | | | | | |
| 831.50 | 15.45 | V | 0.5 | 0.0 | 14.95 | 38.5 | -23.5 | X+AC |
| 831.50 | 28.82 | H | 0.5 | 0.0 | 28.32 | 38.5 | -10.1 | X+AC |
| High Channel | | | | | | | | |
| 848.30 | 17.58 | V | 0.5 | 0.0 | 17.08 | 38.5 | -21.4 | X+AC |
| 848.30 | 28.92 | H | 0.5 | 0.0 | 28.42 | 38.5 | -10.0 | X+AC |
| Rev. 3.17.11 | | | | | | | | |

9.1.6. LTE BAND 41

EIRP LTE QPSK Band 41 (10.0 MHz BANDWIDTH)

| High Frequency Fundamental Measurement UL Verification Services, Inc., Chamber A | | | | | | | | |
|---|---------------------|----------------------------------|--------------------|-----------------------|---------------|----------------|---------------|-------|
| Company: | | Netgear | | | | | | |
| Project #: | | 13U15465 | | | | | | |
| Date: | | 09/03/13 | | | | | | |
| Test Engineer: | | J. Jackson | | | | | | |
| Configuration: | | EUT with AC Adapter | | | | | | |
| Mode: | | LTE BAND 41, QPSK 10MHz, Average | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T119, and Chamber C SMA Cables | | | | | | | | |
| Substitution: Horn T711 Substitution, 4ft SMA Cable SN 16795 | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch | | | | | | | | |
| 2.5010 | 19.9 | V | 1.50 | 5.50 | 23.90 | 33.0 | -9.1 | Y+AC |
| 2.5010 | 23.4 | H | 1.50 | 5.50 | 27.41 | 33.0 | -5.6 | Y+AC |
| Mid Ch | | | | | | | | |
| 2.5930 | 21.5 | V | 1.50 | 5.50 | 25.45 | 33.0 | -7.6 | Y+AC |
| 2.5930 | 21.9 | H | 1.50 | 5.50 | 25.90 | 33.0 | -7.1 | Y+AC |
| High Ch | | | | | | | | |
| 2.6850 | 21.3 | V | 1.50 | 5.50 | 25.27 | 33.0 | -7.7 | Y+AC |
| 2.6850 | 24.8 | H | 1.50 | 5.50 | 28.84 | 33.0 | -4.2 | Y+AC |
| Rev. 3.17.11 | | | | | | | | |

EIRP LTE 16QAM Band 41 (10.0 MHz BANDWIDTH)

| High Frequency Fundamental Measurement UL Verification Services, Inc., Chamber C | | | | | | | | | |
|---|------------------|-----------------------------------|-----------------|--------------------|------------|-------------|------------|-------|--|
| Company: | | Netgear | | | | | | | |
| Project #: | | 13U15465 | | | | | | | |
| Date: | | 09/03/13 | | | | | | | |
| Test Engineer: | | J. Jackson | | | | | | | |
| Configuration: | | EUT with AC Adapter | | | | | | | |
| Mode: | | LTE BAND 41, 16QAM 10MHz, Average | | | | | | | |
| Test Equipment: | | | | | | | | | |
| Receiving: Horn T119, and Chamber C SMA Cables | | | | | | | | | |
| Substitution: Horn T711 Substitution, 4ft SMA Cable SN 16795 | | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | |
| Low Ch | | | | | | | | | |
| 2.5010 | 19.8 | V | 1.50 | 5.50 | 23.78 | 33.0 | -9.2 | Y+AC | |
| 2.5010 | 23.5 | H | 1.50 | 5.50 | 27.51 | 33.0 | -5.5 | Y+AC | |
| Mid Ch | | | | | | | | | |
| 2.5930 | 21.2 | V | 1.50 | 5.50 | 25.24 | 33.0 | -7.8 | Y+AC | |
| 2.5930 | 22.1 | H | 1.50 | 5.50 | 26.06 | 33.0 | -6.9 | Y+AC | |
| High Ch | | | | | | | | | |
| 2.6850 | 21.7 | V | 1.50 | 5.50 | 25.73 | 33.0 | -7.3 | Y+AC | |
| 2.6850 | 24.7 | H | 1.50 | 5.50 | 28.68 | 33.0 | -4.3 | Y+AC | |
| Rev. 3.17.11 | | | | | | | | | |

EIRP LTE QPSK Band 41 (15.0 MHz BANDWIDTH)

| High Frequency Fundamental Measurement UL Verification Services, Inc., Chamber C | | | | | | | | |
|---|---------------------|----------------------------------|--------------------|-----------------------|---------------|----------------|---------------|-------|
| Company: | | Netgear | | | | | | |
| Project #: | | 13U15465 | | | | | | |
| Date: | | 09/03/13 | | | | | | |
| Test Engineer: | | J. Jackson | | | | | | |
| Configuration: | | EUT with AC Adapter | | | | | | |
| Mode: | | LTE BAND 41, QPSK 15MHz, Average | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T119, and Chamber C SMA Cables | | | | | | | | |
| Substitution: Horn T711 Substitution, 4ft SMA Cable SN 16795 | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch | | | | | | | | |
| 2.5035 | 19.7 | V | 1.50 | 5.50 | 23.68 | 33.0 | -9.3 | Y+AC |
| 2.5035 | 24.1 | H | 1.50 | 5.50 | 28.05 | 33.0 | -5.0 | Y+AC |
| Mid Ch | | | | | | | | |
| 2.5930 | 21.3 | V | 1.50 | 5.50 | 25.29 | 33.0 | -7.7 | Y+AC |
| 2.5930 | 25.2 | H | 1.50 | 5.50 | 29.19 | 33.0 | -3.8 | Y+AC |
| High Ch | | | | | | | | |
| 2.6825 | 23.3 | V | 1.50 | 5.50 | 27.26 | 33.0 | -5.7 | Y+AC |
| 2.6825 | 25.1 | H | 1.50 | 5.50 | 29.07 | 33.0 | -3.9 | Y+AC |
| Rev. 3.17.11 | | | | | | | | |

EIRP LTE 16QAM Band 41 (15.0 MHz BANDWIDTH)

| High Frequency Fundamental Measurement UL Verification Services, Inc., Chamber C | | | | | | | | |
|---|------------------|-----------------------------------|-----------------|--------------------|------------|-------------|------------|-------|
| Company: | | Netgear | | | | | | |
| Project #: | | 13U15465 | | | | | | |
| Date: | | 09/03/13 | | | | | | |
| Test Engineer: | | J. Jackson | | | | | | |
| Configuration: | | EUT with AC Adapter | | | | | | |
| Mode: | | LTE BAND 41, 16QAM 15MHz, Average | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T36, and Chamber A SMA Cables | | | | | | | | |
| Substitution: Horn T711 Substitution, 4ft SMA Cable SN 16795 | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch | | | | | | | | |
| 2.5035 | 19.6 | V | 1.50 | 5.50 | 23.58 | 33.0 | -9.4 | Y+AC |
| 2.5035 | 24.2 | H | 1.50 | 5.50 | 28.20 | 33.0 | -4.8 | Y+AC |
| Mid Ch | | | | | | | | |
| 2.5930 | 21.1 | V | 1.50 | 5.50 | 25.11 | 33.0 | -7.9 | Y+AC |
| 2.5930 | 25.2 | H | 1.50 | 5.50 | 29.20 | 33.0 | -3.8 | Y+AC |
| High Ch | | | | | | | | |
| 2.6825 | 23.3 | V | 1.50 | 5.50 | 27.27 | 33.0 | -5.7 | Y+AC |
| 2.6825 | 25.1 | H | 1.50 | 5.50 | 29.07 | 33.0 | -3.9 | Y+AC |
| Rev. 3.17.11 | | | | | | | | |

EIRP LTE QPSK Band 41 (20.0 MHz BANDWIDTH)

| High Frequency Fundamental Measurement UL Verification Services, Inc., Chamber C | | | | | | | | |
|---|---------------------|----------------------------------|--------------------|-----------------------|---------------|----------------|---------------|-------|
| Company: | | Netgear | | | | | | |
| Project #: | | 13U15465 | | | | | | |
| Date: | | 09/03/13 | | | | | | |
| Test Engineer: | | J. Jackson | | | | | | |
| Configuration: | | EUT with AC Adapter | | | | | | |
| Mode: | | LTE BAND 41, QPSK 20MHz, Average | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T119, and Chamber C SMA Cables | | | | | | | | |
| Substitution: Horn T711 Substitution, 4ft SMA Cable SN 16795 | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch | | | | | | | | |
| 2.5060 | 19.2 | V | 1.50 | 5.50 | 23.16 | 33.0 | -9.8 | Y+AC |
| 2.5060 | 24.3 | H | 1.50 | 5.50 | 28.31 | 33.0 | -4.7 | Y+AC |
| Mid Ch | | | | | | | | |
| 2.5930 | 21.5 | V | 1.50 | 5.50 | 25.50 | 33.0 | -7.5 | Y+AC |
| 2.5930 | 25.3 | H | 1.50 | 5.50 | 29.30 | 33.0 | -3.7 | Y+AC |
| High Ch | | | | | | | | |
| 2.6800 | 23.5 | V | 1.50 | 5.50 | 27.50 | 33.0 | -5.5 | Y+AC |
| 2.6800 | 25.6 | H | 1.50 | 5.50 | 29.62 | 33.0 | -3.4 | Y+AC |
| Rev. 3.17.11 | | | | | | | | |

EIRP LTE 16QAM Band 41 (20.0 MHz BANDWIDTH)

| High Frequency Fundamental Measurement UL Verification Services, Inc., Chamber C | | | | | | | | |
|---|------------------|------------------------------------|-----------------|--------------------|------------|-------------|------------|-------|
| Company: | | Netgear | | | | | | |
| Project #: | | 13U15465 | | | | | | |
| Date: | | 09/03/13 | | | | | | |
| Test Engineer: | | J. Jackson | | | | | | |
| Configuration: | | EUT with AC Adapter | | | | | | |
| Mode: | | LTE BAND 41, 16 QAM 20MHz, Average | | | | | | |
| Test Equipment: | | | | | | | | |
| Receiving: Horn T119, and Chamber C SMA Cables | | | | | | | | |
| Substitution: Horn T711 Substitution, 4ft SMA Cable SN 16795 | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch | | | | | | | | |
| 2.5060 | 18.9 | V | 1.50 | 5.50 | 22.94 | 33.0 | -10.1 | Y+AC |
| 2.5060 | 24.4 | H | 1.50 | 5.50 | 28.36 | 33.0 | -4.6 | Y+AC |
| Mid Ch | | | | | | | | |
| 2.5930 | 21.5 | V | 1.50 | 5.50 | 25.50 | 33.0 | -7.5 | Y+AC |
| 2.5930 | 26.0 | H | 1.50 | 5.50 | 30.02 | 33.0 | -3.0 | Y+AC |
| High Ch | | | | | | | | |
| 2.6800 | 23.6 | V | 1.50 | 5.50 | 27.62 | 33.0 | -5.4 | Y+AC |
| 2.6800 | 25.5 | H | 1.50 | 5.50 | 29.49 | 33.0 | -3.5 | Y+AC |
| Rev. 3.17.11 | | | | | | | | |

9.2. FIELD STRENGTH OF SPURIOUS RADIATION

RULE PART(S)

FCC: §2.1053, §22.917, §24.238

LIMIT

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

Reference to KDB 971168 D01 v02r01

For Cellular equipment - Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 100 kHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

For PCS equipment - Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 MHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

MODES TESTED

- CDMA2000 1xRTT BC10, BC0, BC1
- CDMA2000 EVDO BC10, BC0, BC1
- LTE Band 25
- LTE Band 26
- LTE Band 41

RESULTS

RESULTS

9.2.1. CDMA, BC10

1xRTT

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: Netgear
 Project #: 13U15465
 Date: 08/23/13
 Test Engineer: K. Nguyen
 Configuration: EUT with AC charger
 Mode: TX, CDMA2000, BC10

Chamber

Pre-amplifier

Filter

Limit

3m Chamber

T34 8449B

Filter 1

Part 24

| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes |
|-----------------------------|------------------|-----------------|--------------|-------------|-------------|-----------|-------------|------------|-------|
| Low Ch, (817.9 MHz) | | | | | | | | | |
| 1.636 | -18.8 | V | 3.0 | 30.6 | 1.0 | -48.3 | -13.0 | -35.3 | |
| 2.454 | -21.7 | V | 3.0 | 28.4 | 1.0 | -49.1 | -13.0 | -36.1 | |
| 3.269 | -19.9 | V | 3.0 | 26.7 | 1.0 | -45.6 | -13.0 | -32.6 | |
| 1.636 | -15.4 | H | 3.0 | 30.6 | 1.0 | -45.0 | -13.0 | -32.0 | |
| 2.454 | -19.2 | H | 3.0 | 28.4 | 1.0 | -46.6 | -13.0 | -33.6 | |
| 3.269 | -19.9 | H | 3.0 | 26.7 | 1.0 | -45.5 | -13.0 | -32.5 | |
| Mid Ch, (820.5 MHz) | | | | | | | | | |
| 1.641 | -19.1 | V | 3.0 | 30.6 | 1.0 | -48.7 | -13.0 | -35.7 | |
| 2.461 | -21.2 | V | 3.0 | 28.3 | 1.0 | -48.5 | -13.0 | -35.5 | |
| 3.282 | -19.6 | V | 3.0 | 26.6 | 1.0 | -45.3 | -13.0 | -32.3 | |
| 1.641 | -16.1 | H | 3.0 | 30.6 | 1.0 | -45.6 | -13.0 | -32.6 | |
| 2.461 | -22.0 | H | 3.0 | 28.3 | 1.0 | -49.3 | -13.0 | -36.3 | |
| 3.282 | -19.7 | H | 3.0 | 26.6 | 1.0 | -45.4 | -13.0 | -32.4 | |
| High Ch, (823.1 MHz) | | | | | | | | | |
| 1.646 | -17.9 | V | 3.0 | 30.5 | 1.0 | -47.5 | -13.0 | -34.5 | |
| 2.469 | -21.8 | V | 3.0 | 28.3 | 1.0 | -49.1 | -13.0 | -36.1 | |
| 3.292 | -20.6 | V | 3.0 | 26.6 | 1.0 | -46.2 | -13.0 | -33.2 | |
| 1.646 | -15.1 | H | 3.0 | 30.5 | 1.0 | -44.6 | -13.0 | -31.6 | |
| 2.469 | -21.9 | H | 3.0 | 28.3 | 1.0 | -49.2 | -13.0 | -36.2 | |
| 3.292 | -20.5 | H | 3.0 | 26.6 | 1.0 | -46.2 | -13.0 | -33.2 | |

Rev. 03.03.09
 Note: No other emissions were detected above the system noise floor.

EVDO REL 0

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: Netgear
Project #: 13U15465
Date: 08/27/13
Test Engineer: J. Gomez
Configuration: EUT with AC charger
Mode: TX, EVDO REL0, BC10

Chamber

Pre-amplifer

Filter

Limit

5m Chamber A

T144 8449B

Filter 1

Part 24

| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes |
|-----------------------------|------------------|-----------------|--------------|-------------|-------------|-----------|-------------|------------|-------|
| Low Ch, (817.9MHz) | | | | | | | | | |
| 1.635 | -16.5 | V | 3.0 | 30.6 | 1.0 | -46.0 | -13.0 | -33.0 | |
| 2.453 | -21.7 | V | 3.0 | 28.4 | 1.0 | -49.1 | -13.0 | -36.1 | |
| 3.271 | -27.4 | V | 3.0 | 26.7 | 1.0 | -53.0 | -13.0 | -40.0 | |
| 1.635 | -15.5 | H | 3.0 | 30.6 | 1.0 | -45.1 | -13.0 | -32.1 | |
| 2.453 | -21.8 | H | 3.0 | 28.4 | 1.0 | -49.2 | -13.0 | -36.2 | |
| 3.271 | -25.7 | H | 3.0 | 26.7 | 1.0 | -51.3 | -13.0 | -38.3 | |
| Mid Ch, (820.5 MHz) | | | | | | | | | |
| 1.641 | -17.8 | V | 3.0 | 30.6 | 1.0 | -47.4 | -13.0 | -34.4 | |
| 2.461 | -24.4 | V | 3.0 | 28.3 | 1.0 | -51.7 | -13.0 | -38.7 | |
| 3.282 | -28.2 | V | 3.0 | 26.6 | 1.0 | -53.8 | -13.0 | -40.8 | |
| 1.641 | -15.8 | H | 3.0 | 30.6 | 1.0 | -45.4 | -13.0 | -32.4 | |
| 2.461 | -22.5 | H | 3.0 | 28.3 | 1.0 | -49.9 | -13.0 | -36.9 | |
| 3.282 | -28.2 | H | 3.0 | 26.6 | 1.0 | -53.8 | -13.0 | -40.8 | |
| High Ch, (823.1 MHz) | | | | | | | | | |
| 1.646 | -18.9 | V | 3.0 | 30.5 | 1.0 | -48.5 | -13.0 | -35.5 | |
| 2.469 | -23.1 | V | 3.0 | 28.3 | 1.0 | -50.3 | -13.0 | -37.3 | |
| 3.292 | -28.5 | V | 3.0 | 26.6 | 1.0 | -54.2 | -13.0 | -41.2 | |
| 1.646 | -17.0 | H | 3.0 | 30.5 | 1.0 | -46.6 | -13.0 | -33.6 | |
| 2.469 | -24.8 | H | 3.0 | 28.3 | 1.0 | -52.1 | -13.0 | -39.1 | |
| 3.292 | -28.6 | H | 3.0 | 26.6 | 1.0 | -54.3 | -13.0 | -41.3 | |

Rev. 03.03.09
 Note: No other emissions were detected above the system noise floor.

9.2.2. CDMA, BC0

1xRTT

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: Netgear
 Project #: 13U15465
 Date: 08/22/13
 Test Engineer: K. Nguyen
 Configuration: EUT with AC charger
 Mode: TX, CDMA2000, BC0

Chamber

3m Chamber

Pre-amplifier

T34 8449B

Filter

Filter 1

Limit

Part 24

| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes |
|------------------------------|------------------|-----------------|--------------|-------------|-------------|-----------|-------------|------------|-------|
| Low Ch, (824.7MHz) | | | | | | | | | |
| 1.649 | -19.1 | V | 3.0 | 30.5 | 1.0 | -48.7 | -13.0 | -35.7 | |
| 2.474 | -22.9 | V | 3.0 | 28.3 | 1.0 | -50.1 | -13.0 | -37.1 | |
| 3.297 | -21.6 | V | 3.0 | 26.6 | 1.0 | -47.2 | -13.0 | -34.2 | |
| 1.649 | -14.3 | H | 3.0 | 30.5 | 1.0 | -43.8 | -13.0 | -30.8 | |
| 2.474 | -24.8 | H | 3.0 | 28.3 | 1.0 | -52.1 | -13.0 | -39.1 | |
| 3.297 | -20.3 | H | 3.0 | 26.6 | 1.0 | -45.9 | -13.0 | -32.9 | |
| Mid Ch, (836.52 MHz) | | | | | | | | | |
| 1.672 | -17.0 | V | 3.0 | 30.5 | 1.0 | -46.5 | -13.0 | -33.5 | |
| 2.509 | -22.8 | V | 3.0 | 28.1 | 1.0 | -49.9 | -13.0 | -36.9 | |
| 3.343 | -21.6 | V | 3.0 | 26.6 | 1.0 | -47.2 | -13.0 | -34.2 | |
| 1.672 | -11.9 | H | 3.0 | 30.5 | 1.0 | -41.4 | -13.0 | -28.4 | |
| 2.509 | -24.3 | H | 3.0 | 28.1 | 1.0 | -51.4 | -13.0 | -38.4 | |
| 3.343 | -21.1 | H | 3.0 | 26.6 | 1.0 | -46.7 | -13.0 | -33.7 | |
| High Ch, (848.31 MHz) | | | | | | | | | |
| 1.696 | -15.0 | V | 3.0 | 30.5 | 1.0 | -44.4 | -13.0 | -31.4 | |
| 2.544 | -22.2 | V | 3.0 | 28.0 | 1.0 | -49.2 | -13.0 | -36.2 | |
| 3.394 | -20.0 | V | 3.0 | 26.5 | 1.0 | -45.5 | -13.0 | -32.5 | |
| 1.696 | -9.8 | H | 3.0 | 30.5 | 1.0 | -39.2 | -13.0 | -26.2 | |
| 2.544 | -23.1 | H | 3.0 | 28.0 | 1.0 | -50.1 | -13.0 | -37.1 | |
| 3.394 | -20.5 | H | 3.0 | 26.5 | 1.0 | -46.0 | -13.0 | -33.0 | |

Rev. 03.03.09
 Note: No other emissions were detected above the system noise floor.

EVDO REL 0

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: Netgear
Project #: 13U15465
Date: 08/27/13
Test Engineer: J. Gomez
Configuration: EUT with AC charger
Mode: TX, EVDO REL0, BC0

Chamber

5m Chamber A

Pre-amplifier

T144 8449B

Filter

Filter 1

Limit

Part 24

| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes |
|------------------------------|------------------|-----------------|--------------|-------------|-------------|-----------|-------------|------------|-------|
| Low Ch, (824.7MHz) | | | | | | | | | |
| 1.649 | -15.3 | V | 3.0 | 30.5 | 1.0 | -44.9 | -13.0 | -31.9 | |
| 2.474 | -21.9 | V | 3.0 | 28.3 | 1.0 | -49.2 | -13.0 | -36.2 | |
| 3.298 | -27.9 | V | 3.0 | 26.6 | 1.0 | -53.5 | -13.0 | -40.5 | |
| 1.649 | -14.4 | H | 3.0 | 30.5 | 1.0 | -43.9 | -13.0 | -30.9 | |
| 2.474 | -22.7 | H | 3.0 | 28.3 | 1.0 | -49.9 | -13.0 | -36.9 | |
| 3.298 | -28.1 | H | 3.0 | 26.6 | 1.0 | -53.7 | -13.0 | -40.7 | |
| Mid Ch, (836.52 MHz) | | | | | | | | | |
| 1.673 | -16.5 | V | 3.0 | 30.5 | 1.0 | -46.0 | -13.0 | -33.0 | |
| 2.509 | -23.7 | V | 3.0 | 28.1 | 1.0 | -50.8 | -13.0 | -37.8 | |
| 3.346 | -27.9 | V | 3.0 | 26.6 | 1.0 | -53.4 | -13.0 | -40.4 | |
| 1.673 | -14.2 | H | 3.0 | 30.5 | 1.0 | -43.7 | -13.0 | -30.7 | |
| 2.509 | -21.9 | H | 3.0 | 28.1 | 1.0 | -49.0 | -13.0 | -36.0 | |
| 3.346 | -28.5 | H | 3.0 | 26.6 | 1.0 | -54.0 | -13.0 | -41.0 | |
| High Ch, (848.31 MHz) | | | | | | | | | |
| 1.696 | -13.8 | V | 3.0 | 30.5 | 1.0 | -43.2 | -13.0 | -30.2 | |
| 2.544 | -21.8 | V | 3.0 | 28.0 | 1.0 | -48.8 | -13.0 | -35.8 | |
| 3.394 | -28.6 | V | 3.0 | 26.5 | 1.0 | -54.1 | -13.0 | -41.1 | |
| 1.696 | -10.8 | H | 3.0 | 30.5 | 1.0 | -40.3 | -13.0 | -27.3 | |
| 2.544 | -19.0 | H | 3.0 | 28.0 | 1.0 | -46.0 | -13.0 | -33.0 | |
| 3.394 | -29.4 | H | 3.0 | 26.5 | 1.0 | -54.9 | -13.0 | -41.9 | |

Rev. 03.03.09
 Note: No other emissions were detected above the system noise floor.

9.2.3. CDMA, BC1

1xRTT

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: Netgear
Project #: 13U15465
Date: 08/23/13
Test Engineer: K. Nguyen
Configuration: EUT with AC charger
Mode: TX, CDMA2000, BC1

Chamber
 3m Chamber

Pre-amplifier
 T34 8449B

Filter
 Filter 1

Limit
 Part 24

| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes |
|-------------------------------|---------------------|--------------------|-----------------|----------------|----------------|--------------|----------------|---------------|-------|
| Low Ch, (1851.25 MHz) | | | | | | | | | |
| 3.703 | -14.2 | V | 3.0 | 26.1 | 1.0 | -39.3 | -13.0 | -26.3 | |
| 5.553 | -8.7 | V | 3.0 | 24.1 | 1.0 | -31.7 | -13.0 | -18.7 | |
| 7.405 | -10.9 | V | 3.0 | 23.0 | 1.0 | -33.0 | -13.0 | -20.0 | |
| 3.703 | -14.1 | H | 3.0 | 26.1 | 1.0 | -39.2 | -13.0 | -26.2 | |
| 5.553 | -7.8 | H | 3.0 | 24.1 | 1.0 | -30.8 | -13.0 | -17.8 | |
| 7.405 | -9.4 | H | 3.0 | 23.0 | 1.0 | -31.4 | -13.0 | -18.4 | |
| Mid Ch, (1880 MHz) | | | | | | | | | |
| 3.760 | -13.4 | V | 3.0 | 26.0 | 1.0 | -38.4 | -13.0 | -25.4 | |
| 5.640 | -9.1 | V | 3.0 | 24.0 | 1.0 | -32.1 | -13.0 | -19.1 | |
| 7.520 | -9.2 | V | 3.0 | 23.0 | 1.0 | -31.2 | -13.0 | -18.2 | |
| 3.760 | -10.9 | H | 3.0 | 26.0 | 1.0 | -36.0 | -13.0 | -23.0 | |
| 5.640 | -7.9 | H | 3.0 | 24.0 | 1.0 | -30.9 | -13.0 | -17.9 | |
| 7.520 | -8.0 | H | 3.0 | 23.0 | 1.0 | -30.0 | -13.0 | -17.0 | |
| High Ch, (1908.75 MHz) | | | | | | | | | |
| 3.818 | -13.7 | V | 3.0 | 26.0 | 1.0 | -38.6 | -13.0 | -25.6 | |
| 5.726 | -8.7 | V | 3.0 | 23.9 | 1.0 | -31.6 | -13.0 | -18.6 | |
| 7.635 | -10.6 | V | 3.0 | 23.0 | 1.0 | -32.6 | -13.0 | -19.6 | |
| 3.818 | -11.5 | H | 3.0 | 26.0 | 1.0 | -36.4 | -13.0 | -23.4 | |
| 5.726 | -7.3 | H | 3.0 | 23.9 | 1.0 | -30.3 | -13.0 | -17.3 | |
| 7.635 | -6.8 | H | 3.0 | 23.0 | 1.0 | -28.8 | -13.0 | -15.8 | |

Rev. 03.03.09
 Note: No other emissions were detected above the system noise floor.

EVDO RELO

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: Netgear
 Project #: 13U15465
 Date: 08/27/13
 Test Engineer: J. Gomez
 Configuration: EUT with AC charger
 Mode: TX, EVDO RELO, BC1

Chamber

5m Chamber A

Pre-amplifier

T144 8449B

Filter

Filter 1

Limit

Part 24

| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes |
|-----------------------------|------------------|-----------------|--------------|-------------|-------------|-----------|-------------|------------|-------|
| Low Ch, (1851.25MHz) | | | | | | | | | |
| 3.702 | -24.3 | V | 3.0 | 26.1 | 1.0 | -49.4 | -13.0 | -36.4 | |
| 5.553 | -20.5 | V | 3.0 | 24.1 | 1.0 | -43.5 | -13.0 | -30.5 | |
| 7.405 | -21.3 | V | 3.0 | 23.0 | 1.0 | -43.4 | -13.0 | -30.4 | |
| 3.702 | -29.6 | H | 3.0 | 26.1 | 1.0 | -54.7 | -13.0 | -41.7 | |
| 5.553 | -25.5 | H | 3.0 | 24.1 | 1.0 | -48.6 | -13.0 | -35.6 | |
| 7.405 | -20.6 | H | 3.0 | 23.0 | 1.0 | -42.6 | -13.0 | -29.6 | |
| Mid Ch, (1880 MHz) | | | | | | | | | |
| 3.760 | -20.8 | V | 3.0 | 26.0 | 1.0 | -45.8 | -13.0 | -32.8 | |
| 5.640 | -16.0 | V | 3.0 | 24.0 | 1.0 | -39.0 | -13.0 | -26.0 | |
| 7.520 | -19.5 | V | 3.0 | 23.0 | 1.0 | -41.5 | -13.0 | -28.5 | |
| 9.400 | -30.3 | V | 3.0 | 22.6 | 1.0 | -51.9 | -13.0 | -38.9 | |
| 3.760 | -25.9 | H | 3.0 | 26.0 | 1.0 | -51.0 | -13.0 | -38.0 | |
| 5.640 | -17.7 | H | 3.0 | 24.0 | 1.0 | -40.7 | -13.0 | -27.7 | |
| 7.520 | -22.4 | H | 3.0 | 23.0 | 1.0 | -44.4 | -13.0 | -31.4 | |
| 9.400 | -28.9 | H | 3.0 | 22.6 | 1.0 | -50.5 | -13.0 | -37.5 | |
| High Ch, (823.1 MHz) | | | | | | | | | |
| 3.817 | -22.9 | V | 3.0 | 26.0 | 1.0 | -47.9 | -13.0 | -34.9 | |
| 5.726 | -20.3 | V | 3.0 | 23.9 | 1.0 | -43.2 | -13.0 | -30.2 | |
| 7.635 | -28.3 | V | 3.0 | 23.0 | 1.0 | -50.2 | -13.0 | -37.2 | |
| 9.543 | -25.2 | V | 3.0 | 22.6 | 1.0 | -46.8 | -13.0 | -33.8 | |
| 11.452 | -30.1 | V | 3.0 | 23.8 | 1.0 | -52.9 | -13.0 | -39.9 | |
| 3.817 | -22.3 | H | 3.0 | 26.0 | 1.0 | -47.3 | -13.0 | -34.3 | |
| 5.726 | -22.2 | H | 3.0 | 23.9 | 1.0 | -45.1 | -13.0 | -32.1 | |
| 7.635 | -29.5 | H | 3.0 | 23.0 | 1.0 | -51.5 | -13.0 | -38.5 | |
| 9.543 | -26.2 | H | 3.0 | 22.6 | 1.0 | -47.8 | -13.0 | -34.8 | |
| 11.452 | -26.6 | H | 3.0 | 23.8 | 1.0 | -49.4 | -13.0 | -36.4 | |

Rev. 03.03.09
 Note: No other emissions were detected above the system noise floor.

9.2.4. LTE BAND 25

EIRP LTE QPSK Band 25 (3 MHz BANDWIDTH)

| Compliance Certification Services | | | | | | | | | |
|--|------------------|-----------------------------|--------------|-------------|-------------|-----------|-------------|------------|-------|
| Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
| Company: | | Netgear | | | | | | | |
| Project #: | | 13U15465 | | | | | | | |
| Date: | | 08/28/13 | | | | | | | |
| Test Engineer: | | J Gomez | | | | | | | |
| Configuration: | | EUT Y-Pos w/ AC Adaptor | | | | | | | |
| Mode: | | TX, LTE band 25, 3MHz, QPSK | | | | | | | |
| Chamber | | Pre-amplifier | | Filter | | Limit | | | |
| 5m Chamber A | | T144 8449B | | Filter 1 | | Part 24 | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch, (1851.5 MHz) | | | | | | | | | |
| 3.703 | -20.5 | V | 3.0 | 26.1 | 1.0 | -45.6 | -13.0 | -32.6 | |
| 5.555 | -16.4 | V | 3.0 | 24.1 | 1.0 | -39.4 | -13.0 | -26.4 | |
| 7.406 | -21.6 | V | 3.0 | 23.0 | 1.0 | -43.6 | -13.0 | -30.6 | |
| 9.258 | -25.6 | V | 3.0 | 22.7 | 1.0 | -47.2 | -13.0 | -34.2 | |
| 11.109 | -23.3 | V | 3.0 | 23.5 | 1.0 | -45.9 | -13.0 | -32.9 | |
| 3.703 | -22.7 | H | 3.0 | 26.1 | 1.0 | -47.8 | -13.0 | -34.8 | |
| 5.555 | -14.4 | H | 3.0 | 24.1 | 1.0 | -37.5 | -13.0 | -24.5 | |
| 7.406 | -16.4 | H | 3.0 | 23.0 | 1.0 | -38.4 | -13.0 | -25.4 | |
| 9.258 | -24.6 | H | 3.0 | 22.7 | 1.0 | -46.3 | -13.0 | -33.3 | |
| 11.109 | -24.0 | H | 3.0 | 23.5 | 1.0 | -46.5 | -13.0 | -33.5 | |
| Mid Ch, (1882.5 MHz) | | | | | | | | | |
| 3.765 | -18.2 | V | 3.0 | 26.0 | 1.0 | -43.2 | -13.0 | -30.2 | |
| 5.648 | -16.7 | V | 3.0 | 24.0 | 1.0 | -39.7 | -13.0 | -26.7 | |
| 7.530 | -21.1 | V | 3.0 | 23.0 | 1.0 | -43.1 | -13.0 | -30.1 | |
| 9.412 | -24.8 | V | 3.0 | 22.6 | 1.0 | -46.4 | -13.0 | -33.4 | |
| 11.295 | -27.4 | V | 3.0 | 23.7 | 1.0 | -50.1 | -13.0 | -37.1 | |
| 3.765 | -19.3 | H | 3.0 | 26.0 | 1.0 | -44.4 | -13.0 | -31.4 | |
| 5.648 | -14.5 | H | 3.0 | 24.0 | 1.0 | -37.5 | -13.0 | -24.5 | |
| 7.530 | -18.7 | H | 3.0 | 23.0 | 1.0 | -40.7 | -13.0 | -27.7 | |
| 9.412 | -24.7 | H | 3.0 | 22.6 | 1.0 | -46.3 | -13.0 | -33.3 | |
| 11.295 | -27.8 | H | 3.0 | 23.7 | 1.0 | -50.5 | -13.0 | -37.5 | |
| High Ch, (1913.5 MHz) | | | | | | | | | |
| 3.827 | -22.9 | V | 3.0 | 26.0 | 1.0 | -47.9 | -13.0 | -34.9 | |
| 5.740 | -18.1 | V | 3.0 | 23.9 | 1.0 | -41.0 | -13.0 | -28.0 | |
| 7.654 | -24.9 | V | 3.0 | 23.0 | 1.0 | -46.9 | -13.0 | -33.9 | |
| 9.567 | -26.2 | V | 3.0 | 22.6 | 1.0 | -47.8 | -13.0 | -34.8 | |
| 11.481 | -19.2 | V | 3.0 | 23.8 | 1.0 | -42.0 | -13.0 | -29.0 | |
| 3.827 | -23.4 | H | 3.0 | 26.0 | 1.0 | -48.3 | -13.0 | -35.3 | |
| 5.740 | -10.8 | H | 3.0 | 23.9 | 1.0 | -33.7 | -13.0 | -20.7 | |
| 7.654 | -28.6 | H | 3.0 | 23.0 | 1.0 | -50.5 | -13.0 | -37.5 | |
| 9.567 | -29.3 | H | 3.0 | 22.6 | 1.0 | -50.9 | -13.0 | -37.9 | |
| 11.481 | -15.6 | H | 3.0 | 23.8 | 1.0 | -38.5 | -13.0 | -25.5 | |
| Rev. 03.03.09 | | | | | | | | | |
| Note: No other emissions were detected above the system noise floor. | | | | | | | | | |

EIRP LTE 16QAM Band 25 (3 MHz BANDWIDTH)

| Compliance Certification Services Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|---|------------------|------------------------------|--------------|-------------|---------------|-----------|--------------|------------|-------|
| Company: | | Netgear | | | | | | | |
| Project #: | | 13U15465 | | | | | | | |
| Date: | | 08/28/13 | | | | | | | |
| Test Engineer: | | J Gomez | | | | | | | |
| Configuration: | | EUT w/ AC Adaptor | | | | | | | |
| Mode: | | TX, LTE band 25, 3MHz, 16QAM | | | | | | | |
| Chamber | | Pre-amplifier | | | Filter | | Limit | | |
| 5m Chamber A | | T144 8449B | | | Filter 1 | | Part 24 | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch, (1851.5 MHz) | | | | | | | | | |
| 3.703 | -20.3 | V | 3.0 | 26.1 | 1.0 | -45.4 | -13.0 | -32.4 | |
| 5.555 | -16.3 | V | 3.0 | 24.1 | 1.0 | -39.3 | -13.0 | -26.3 | |
| 7.406 | -20.6 | V | 3.0 | 23.0 | 1.0 | -42.6 | -13.0 | -29.6 | |
| 9.258 | -25.1 | V | 3.0 | 22.7 | 1.0 | -46.8 | -13.0 | -33.8 | |
| 11.109 | -22.7 | V | 3.0 | 23.5 | 1.0 | -45.2 | -13.0 | -32.2 | |
| 3.703 | -23.0 | H | 3.0 | 26.1 | 1.0 | -48.1 | -13.0 | -35.1 | |
| 5.555 | -14.1 | H | 3.0 | 24.1 | 1.0 | -37.2 | -13.0 | -24.2 | |
| 7.406 | -15.9 | H | 3.0 | 23.0 | 1.0 | -37.9 | -13.0 | -24.9 | |
| 9.258 | -25.2 | H | 3.0 | 22.7 | 1.0 | -46.9 | -13.0 | -33.9 | |
| 11.109 | -24.0 | H | 3.0 | 23.5 | 1.0 | -46.5 | -13.0 | -33.5 | |
| Mid Ch, (1882.5 MHz) | | | | | | | | | |
| 3.765 | -17.9 | V | 3.0 | 26.0 | 1.0 | -42.9 | -13.0 | -29.9 | |
| 5.648 | -16.5 | V | 3.0 | 24.0 | 1.0 | -39.5 | -13.0 | -26.5 | |
| 7.530 | -20.3 | V | 3.0 | 23.0 | 1.0 | -42.3 | -13.0 | -29.3 | |
| 9.412 | -24.5 | V | 3.0 | 22.6 | 1.0 | -46.1 | -13.0 | -33.1 | |
| 11.295 | -27.1 | V | 3.0 | 23.7 | 1.0 | -49.8 | -13.0 | -36.8 | |
| 3.765 | -19.6 | H | 3.0 | 26.0 | 1.0 | -44.6 | -13.0 | -31.6 | |
| 5.648 | -14.4 | H | 3.0 | 24.0 | 1.0 | -37.4 | -13.0 | -24.4 | |
| 7.530 | -18.5 | H | 3.0 | 23.0 | 1.0 | -40.5 | -13.0 | -27.5 | |
| 9.412 | -25.0 | H | 3.0 | 22.6 | 1.0 | -46.6 | -13.0 | -33.6 | |
| 11.295 | -28.6 | H | 3.0 | 23.7 | 1.0 | -51.3 | -13.0 | -38.3 | |
| High Ch, (1913.5 MHz) | | | | | | | | | |
| 3.827 | -22.7 | V | 3.0 | 26.0 | 1.0 | -47.7 | -13.0 | -34.7 | |
| 5.740 | -17.8 | V | 3.0 | 23.9 | 1.0 | -40.7 | -13.0 | -27.7 | |
| 7.654 | -23.0 | V | 3.0 | 23.0 | 1.0 | -45.0 | -13.0 | -32.0 | |
| 9.567 | -26.0 | V | 3.0 | 22.6 | 1.0 | -47.6 | -13.0 | -34.6 | |
| 11.481 | -19.0 | V | 3.0 | 23.8 | 1.0 | -41.8 | -13.0 | -28.8 | |
| 3.827 | -23.9 | H | 3.0 | 26.0 | 1.0 | -48.8 | -13.0 | -35.8 | |
| 5.740 | -10.6 | H | 3.0 | 23.9 | 1.0 | -33.5 | -13.0 | -20.5 | |
| 7.654 | -27.5 | H | 3.0 | 23.0 | 1.0 | -49.4 | -13.0 | -36.4 | |
| 9.567 | -28.8 | H | 3.0 | 22.6 | 1.0 | -50.4 | -13.0 | -37.4 | |
| 11.481 | -14.7 | H | 3.0 | 23.8 | 1.0 | -37.6 | -13.0 | -24.6 | |
| Rev. 03.03.09 | | | | | | | | | |
| Note: No other emissions were detected above the system noise floor. | | | | | | | | | |

EIRP LTE QPSK Band 25 (5 MHz BANDWIDTH)

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|-----------------------------|--------------|-------------|---------------|-----------|--------------|------------|-------|
| Company: | | Netgear | | | | | | | |
| Project #: | | 13U15465 | | | | | | | |
| Date: | | 08/25/13 | | | | | | | |
| Test Engineer: | | K. Nguyen | | | | | | | |
| Configuration: | | EUT w/ AC Adaptor | | | | | | | |
| Mode: | | TX, LTE band 25, 5MHz, QPSK | | | | | | | |
| Chamber | | Pre-amplifier | | | Filter | | Limit | | |
| 3m Chamber | | T34 8449B | | | Filter 1 | | Part 24 | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch, (1852.5 MHz) | | | | | | | | | |
| 3.705 | -5.2 | V | 3.0 | 26.1 | 1.0 | -30.3 | -13.0 | -17.3 | |
| 5.558 | -6.6 | V | 3.0 | 24.1 | 1.0 | -29.6 | -13.0 | -16.6 | |
| 7.410 | -4.7 | V | 3.0 | 23.0 | 1.0 | -26.7 | -13.0 | -13.7 | |
| 9.263 | -11.6 | V | 3.0 | 22.7 | 1.0 | -33.3 | -13.0 | -20.3 | |
| 3.705 | -4.0 | H | 3.0 | 26.1 | 1.0 | -29.1 | -13.0 | -16.1 | |
| 5.558 | -4.7 | H | 3.0 | 24.1 | 1.0 | -27.7 | -13.0 | -14.7 | |
| 7.410 | -3.5 | H | 3.0 | 23.0 | 1.0 | -25.5 | -13.0 | -12.5 | |
| 9.263 | -10.0 | H | 3.0 | 22.7 | 1.0 | -31.7 | -13.0 | -18.7 | |
| Mid Ch, (1882.5 MHz) | | | | | | | | | |
| 3.765 | -0.3 | V | 3.0 | 26.0 | 1.0 | -25.3 | -13.0 | -12.3 | |
| 5.648 | -1.9 | V | 3.0 | 24.0 | 1.0 | -24.9 | -13.0 | -11.9 | |
| 7.530 | -6.4 | V | 3.0 | 23.0 | 1.0 | -28.4 | -13.0 | -15.4 | |
| 9.413 | -12.1 | V | 3.0 | 22.6 | 1.0 | -33.8 | -13.0 | -20.8 | |
| 3.765 | 0.3 | H | 3.0 | 26.0 | 1.0 | -24.8 | -13.0 | -11.8 | |
| 5.648 | -1.0 | H | 3.0 | 24.0 | 1.0 | -24.0 | -13.0 | -11.0 | |
| 7.530 | -6.0 | H | 3.0 | 23.0 | 1.0 | -28.0 | -13.0 | -15.0 | |
| 9.413 | -12.4 | V | 3.0 | 22.6 | 1.0 | -34.1 | -13.0 | -21.1 | |
| High Ch, (1912.5 MHz) | | | | | | | | | |
| 3.825 | -13.6 | V | 3.0 | 26.0 | 1.0 | -38.6 | -13.0 | -25.6 | |
| 5.738 | -2.6 | V | 3.0 | 23.9 | 1.0 | -25.6 | -13.0 | -12.6 | |
| 7.650 | -11.5 | V | 3.0 | 23.0 | 1.0 | -33.4 | -13.0 | -20.4 | |
| 9.563 | -8.9 | V | 3.0 | 22.6 | 1.0 | -30.6 | -13.0 | -17.6 | |
| 11.462 | 1.9 | V | 3.0 | 23.8 | 1.0 | -20.9 | -13.0 | -7.9 | |
| 3.825 | -14.7 | H | 3.0 | 26.0 | 1.0 | -39.7 | -13.0 | -26.7 | |
| 5.738 | 1.9 | H | 3.0 | 23.9 | 1.0 | -21.0 | -13.0 | -8.0 | |
| 7.650 | -10.5 | H | 3.0 | 23.0 | 1.0 | -32.5 | -13.0 | -19.5 | |
| 9.563 | -10.2 | V | 3.0 | 22.6 | 1.0 | -31.8 | -13.0 | -18.8 | |
| 11.462 | 1.4 | V | 3.0 | 23.8 | 1.0 | -21.4 | -13.0 | -8.4 | |
| Rev. 03.03.09 | | | | | | | | | |
| Note: No other emissions were detected above the system noise floor. | | | | | | | | | |

EIRP LTE 16QAM Band 25 (5 MHz BANDWIDTH)

| <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Chamber</td> <td style="text-align: center;">Pre-amplifier</td> <td style="text-align: center;">Filter</td> <td style="text-align: center;">Limit</td> </tr> <tr> <td style="text-align: center;">3m Chamber</td> <td style="text-align: center;">T34 8449B</td> <td style="text-align: center;">Filter 1</td> <td style="text-align: center;">Part 24</td> </tr> </table> | | | | | | | | | | Chamber | Pre-amplifier | Filter | Limit | 3m Chamber | T34 8449B | Filter 1 | Part 24 |
|---|----------------------|-----------------|--------------|-------------|-------------|-----------|-------------|------------|-------|----------------|----------------------|---------------|--------------|------------|-----------|----------|---------|
| Chamber | Pre-amplifier | Filter | Limit | | | | | | | | | | | | | | |
| 3m Chamber | T34 8449B | Filter 1 | Part 24 | | | | | | | | | | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes | | | | | | | | |
| Low Ch, (1852.5 MHz) | | | | | | | | | | | | | | | | | |
| 3.705 | -6.3 | V | 3.0 | 26.1 | 1.0 | -31.4 | -13.0 | -18.4 | | | | | | | | | |
| 5.558 | -6.8 | V | 3.0 | 24.1 | 1.0 | -29.9 | -13.0 | -16.9 | | | | | | | | | |
| 7.410 | -5.3 | V | 3.0 | 23.0 | 1.0 | -27.3 | -13.0 | -14.3 | | | | | | | | | |
| 9.263 | -11.9 | V | 3.0 | 22.7 | 1.0 | -33.5 | -13.0 | -20.5 | | | | | | | | | |
| 3.705 | -4.8 | H | 3.0 | 26.1 | 1.0 | -30.0 | -13.0 | -17.0 | | | | | | | | | |
| 5.558 | -5.3 | H | 3.0 | 24.1 | 1.0 | -28.3 | -13.0 | -15.3 | | | | | | | | | |
| 7.410 | -4.0 | H | 3.0 | 23.0 | 1.0 | -26.0 | -13.0 | -13.0 | | | | | | | | | |
| 9.263 | -10.5 | H | 3.0 | 22.7 | 1.0 | -32.2 | -13.0 | -19.2 | | | | | | | | | |
| Mid Ch, (1882.5 MHz) | | | | | | | | | | | | | | | | | |
| 3.765 | -1.1 | V | 3.0 | 26.0 | 1.0 | -26.1 | -13.0 | -13.1 | | | | | | | | | |
| 5.648 | -2.7 | V | 3.0 | 24.0 | 1.0 | -25.7 | -13.0 | -12.7 | | | | | | | | | |
| 7.530 | -7.6 | V | 3.0 | 23.0 | 1.0 | -29.6 | -13.0 | -16.6 | | | | | | | | | |
| 9.413 | -12.3 | V | 3.0 | 22.6 | 1.0 | -33.9 | -13.0 | -20.9 | | | | | | | | | |
| 3.765 | -0.4 | H | 3.0 | 26.0 | 1.0 | -25.4 | -13.0 | -12.4 | | | | | | | | | |
| 5.648 | -1.6 | H | 3.0 | 24.0 | 1.0 | -24.6 | -13.0 | -11.6 | | | | | | | | | |
| 7.530 | -6.9 | H | 3.0 | 23.0 | 1.0 | -28.9 | -13.0 | -15.9 | | | | | | | | | |
| 9.413 | -12.3 | V | 3.0 | 22.6 | 1.0 | -34.0 | -13.0 | -21.0 | | | | | | | | | |
| High Ch, (1912.5 MHz) | | | | | | | | | | | | | | | | | |
| 3.825 | -13.8 | V | 3.0 | 26.0 | 1.0 | -38.7 | -13.0 | -25.7 | | | | | | | | | |
| 5.738 | -2.1 | V | 3.0 | 23.9 | 1.0 | -25.0 | -13.0 | -12.0 | | | | | | | | | |
| 7.650 | -10.0 | V | 3.0 | 23.0 | 1.0 | -31.9 | -13.0 | -18.9 | | | | | | | | | |
| 9.563 | -9.4 | V | 3.0 | 22.6 | 1.0 | -31.0 | -13.0 | -18.0 | | | | | | | | | |
| 11.462 | 2.8 | V | 3.0 | 23.8 | 1.0 | -20.0 | -13.0 | -7.0 | | | | | | | | | |
| 3.825 | -14.7 | H | 3.0 | 26.0 | 1.0 | -39.6 | -13.0 | -26.6 | | | | | | | | | |
| 5.738 | 2.8 | H | 3.0 | 23.9 | 1.0 | -20.1 | -13.0 | -7.1 | | | | | | | | | |
| 7.650 | -10.7 | H | 3.0 | 23.0 | 1.0 | -32.7 | -13.0 | -19.7 | | | | | | | | | |
| 9.563 | -10.9 | V | 3.0 | 22.6 | 1.0 | -32.5 | -13.0 | -19.5 | | | | | | | | | |
| 11.462 | 1.9 | V | 3.0 | 23.8 | 1.0 | -20.9 | -13.0 | -7.9 | | | | | | | | | |

Rev. 03.03.09
 Note: No other emissions were detected above the system noise floor.

EIRP LTE QPSK Band 25 (10 MHz BANDWIDTH)

Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company: Netgear
Project #: 13U15465
Date: 08/23/13
Test Engineer: J Gomez
Configuration: EUT Y-Pos w/ AC Adaptor
Mode: TX, LTE band 25, 10MHz, QPSK

Chamber
5m Chamber A

Pre-amplifier
T144 8449B

Filter
Filter 1

Limit
Part 24

| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes |
|------------------------------|------------------|-----------------|--------------|-------------|-------------|-----------|-------------|------------|-------|
| Low Ch, (1855 MHz) | | | | | | | | | |
| 3.710 | -17.7 | V | 3.0 | 26.1 | 1.0 | -42.8 | -13.0 | -29.8 | |
| 5.565 | -20.3 | V | 3.0 | 24.0 | 1.0 | -43.3 | -13.0 | -30.3 | |
| 7.420 | -21.3 | V | 3.0 | 23.0 | 1.0 | -43.3 | -13.0 | -30.3 | |
| 9.275 | -24.7 | V | 3.0 | 22.7 | 1.0 | -46.4 | -13.0 | -33.4 | |
| 11.130 | -22.3 | V | 3.0 | 23.5 | 1.0 | -44.8 | -13.0 | -31.8 | |
| 3.710 | -10.6 | H | 3.0 | 26.1 | 1.0 | -35.8 | -13.0 | -22.8 | |
| 5.565 | -17.0 | H | 3.0 | 24.0 | 1.0 | -40.0 | -13.0 | -27.0 | |
| 7.420 | -15.2 | H | 3.0 | 23.0 | 1.0 | -37.3 | -13.0 | -24.3 | |
| 9.275 | -16.6 | H | 3.0 | 22.7 | 1.0 | -38.2 | -13.0 | -25.2 | |
| 11.130 | -17.2 | H | 3.0 | 23.5 | 1.0 | -39.8 | -13.0 | -26.8 | |
| Mid Ch, (1882.5 MHz) | | | | | | | | | |
| 3.765 | -11.0 | V | 3.0 | 26.0 | 1.0 | -36.1 | -13.0 | -23.1 | |
| 5.648 | -12.8 | V | 3.0 | 24.0 | 1.0 | -35.8 | -13.0 | -22.8 | |
| 7.530 | -8.7 | V | 3.0 | 23.0 | 1.0 | -30.7 | -13.0 | -17.7 | |
| 3.765 | -7.1 | H | 3.0 | 26.0 | 1.0 | -32.1 | -13.0 | -19.1 | |
| 5.648 | -10.2 | H | 3.0 | 24.0 | 1.0 | -33.2 | -13.0 | -20.2 | |
| 7.530 | -8.3 | H | 3.0 | 23.0 | 1.0 | -30.3 | -13.0 | -17.3 | |
| High Ch, (1909.8 MHz) | | | | | | | | | |
| 3.820 | -11.1 | V | 3.0 | 26.0 | 1.0 | -36.1 | -13.0 | -23.1 | |
| 5.729 | -14.4 | V | 3.0 | 23.9 | 1.0 | -37.3 | -13.0 | -24.3 | |
| 7.639 | -8.1 | V | 3.0 | 23.0 | 1.0 | -30.1 | -13.0 | -17.1 | |
| 3.820 | -6.9 | H | 3.0 | 26.0 | 1.0 | -31.9 | -13.0 | -18.9 | |
| 5.729 | -10.8 | H | 3.0 | 23.9 | 1.0 | -33.8 | -13.0 | -20.8 | |
| 7.639 | -6.8 | H | 3.0 | 23.0 | 1.0 | -28.7 | -13.0 | -15.7 | |

Rev. 03.03.09
 Note: No other emissions were detected above the system noise floor.

EIRP LTE 16QAM Band 25 (10 MHz BANDWIDTH)

| Compliance Certification Services | | | | | | | | | |
|--|------------------|-------------------------------|--------------|-------------|---------------|-----------|--------------|------------|-------|
| Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
| Company: | | Netgear | | | | | | | |
| Project #: | | 13U15465 | | | | | | | |
| Date: | | 08/23/13 | | | | | | | |
| Test Engineer: | | J Gomez | | | | | | | |
| Configuration: | | EUT w/ AC Adaptor | | | | | | | |
| Mode: | | TX, LTE band 25, 10MHz, 16QAM | | | | | | | |
| Chamber | | Pre-amplifier | | | Filter | | Limit | | |
| 5m Chamber A | | T144 8449B | | | Filter 1 | | Part 24 | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch, (1855 MHz) | | | | | | | | | |
| 3.710 | -17.5 | V | 3.0 | 26.1 | 1.0 | -42.6 | -13.0 | -29.6 | |
| 5.565 | -20.3 | V | 3.0 | 24.0 | 1.0 | -43.3 | -13.0 | -30.3 | |
| 7.420 | -20.8 | V | 3.0 | 23.0 | 1.0 | -42.8 | -13.0 | -29.8 | |
| 9.275 | -24.9 | V | 3.0 | 22.7 | 1.0 | -46.6 | -13.0 | -33.6 | |
| 11.130 | -21.9 | V | 3.0 | 23.5 | 1.0 | -44.4 | -13.0 | -31.4 | |
| 3.710 | -10.9 | H | 3.0 | 26.1 | 1.0 | -36.1 | -13.0 | -23.1 | |
| 5.565 | -16.5 | H | 3.0 | 24.0 | 1.0 | -39.5 | -13.0 | -26.5 | |
| 7.420 | -15.4 | H | 3.0 | 23.0 | 1.0 | -37.4 | -13.0 | -24.4 | |
| 9.275 | -16.5 | H | 3.0 | 22.7 | 1.0 | -38.2 | -13.0 | -25.2 | |
| 11.130 | -17.4 | H | 3.0 | 23.5 | 1.0 | -39.9 | -13.0 | -26.9 | |
| Mid Ch, (1882.5 MHz) | | | | | | | | | |
| 3.765 | -11.3 | V | 3.0 | 26.0 | 1.0 | -36.4 | -13.0 | -23.4 | |
| 5.648 | -12.3 | V | 3.0 | 24.0 | 1.0 | -35.3 | -13.0 | -22.3 | |
| 7.530 | -9.4 | V | 3.0 | 23.0 | 1.0 | -31.4 | -13.0 | -18.4 | |
| 3.765 | -6.7 | H | 3.0 | 26.0 | 1.0 | -31.7 | -13.0 | -18.7 | |
| 5.648 | -9.8 | H | 3.0 | 24.0 | 1.0 | -32.8 | -13.0 | -19.8 | |
| 7.530 | -7.5 | H | 3.0 | 23.0 | 1.0 | -29.5 | -13.0 | -16.5 | |
| High Ch, (1909.8 MHz) | | | | | | | | | |
| 3.820 | -11.0 | V | 3.0 | 26.0 | 1.0 | -36.0 | -13.0 | -23.0 | |
| 5.729 | -13.9 | V | 3.0 | 23.9 | 1.0 | -36.8 | -13.0 | -23.8 | |
| 7.639 | -8.1 | V | 3.0 | 23.0 | 1.0 | -30.1 | -13.0 | -17.1 | |
| 3.820 | -7.4 | H | 3.0 | 26.0 | 1.0 | -32.4 | -13.0 | -19.4 | |
| 5.729 | -10.9 | H | 3.0 | 23.9 | 1.0 | -33.8 | -13.0 | -20.8 | |
| 7.639 | -6.9 | H | 3.0 | 23.0 | 1.0 | -28.9 | -13.0 | -15.9 | |
| Rev. 03.03.09 | | | | | | | | | |
| Note: No other emissions were detected above the system noise floor. | | | | | | | | | |

9.2.5. LTE BAND 26

ERP LTE QPSK Band 26 (1.4 MHz BANDWIDTH)

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|-------------------------------|--------------|-------------|---------------|-----------|--------------|------------|-------|
| Company: | | Netgear | | | | | | | |
| Project #: | | 13U15465 | | | | | | | |
| Date: | | 08/25/13 | | | | | | | |
| Test Engineer: | | K. Nguyen | | | | | | | |
| Configuration: | | EUT w/ AC Adaptor | | | | | | | |
| Mode: | | TX, LTE band 26, 1.4MHz, QPSK | | | | | | | |
| Chamber | | Pre-amplifier | | | Filter | | Limit | | |
| 3m Chamber | | T34 8449B | | | Filter 1 | | Part 24 | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch, (814.7 MHz) | | | | | | | | | |
| 1.629 | -17.9 | V | 3.0 | 30.6 | 1.0 | -47.4 | -13.0 | -34.4 | |
| 2.444 | -21.4 | V | 3.0 | 28.4 | 1.0 | -48.8 | -13.0 | -35.8 | |
| 3.259 | -20.6 | V | 3.0 | 26.7 | 1.0 | -46.2 | -13.0 | -33.2 | |
| 1.629 | -14.3 | H | 3.0 | 30.6 | 1.0 | -43.9 | -12.0 | -31.9 | |
| 2.444 | -21.8 | H | 3.0 | 28.4 | 1.0 | -49.2 | -13.0 | -36.2 | |
| 3.259 | -22.1 | H | 3.0 | 26.7 | 1.0 | -47.8 | -13.0 | -34.8 | |
| Mid Ch, (831.5 MHz) | | | | | | | | | |
| 1.663 | -18.3 | V | 3.0 | 30.5 | 1.0 | -47.8 | -13.0 | -34.8 | |
| 2.495 | -21.8 | V | 3.0 | 28.1 | 1.0 | -49.0 | -13.0 | -36.0 | |
| 3.326 | -21.7 | V | 3.0 | 26.6 | 1.0 | -47.3 | -13.0 | -34.3 | |
| 1.663 | -13.0 | H | 3.0 | 30.5 | 1.0 | -42.6 | -13.0 | -29.6 | |
| 2.495 | -20.5 | H | 3.0 | 28.1 | 1.0 | -47.6 | -13.0 | -34.6 | |
| 3.326 | -21.9 | H | 3.0 | 26.6 | 1.0 | -47.5 | -13.0 | -34.5 | |
| High Ch, (848.3 MHz) | | | | | | | | | |
| 1.697 | -16.8 | V | 3.0 | 30.5 | 1.0 | -46.2 | -13.0 | -33.2 | |
| 2.544 | -17.6 | V | 3.0 | 28.0 | 1.0 | -44.6 | -13.0 | -31.6 | |
| 3.393 | -21.1 | V | 3.0 | 26.5 | 1.0 | -46.6 | -13.0 | -33.6 | |
| 1.697 | -12.6 | H | 3.0 | 30.5 | 1.0 | -42.1 | -13.0 | -29.1 | |
| 2.544 | -19.4 | H | 3.0 | 28.0 | 1.0 | -46.4 | -13.0 | -33.4 | |
| 3.393 | -21.3 | H | 3.0 | 26.5 | 1.0 | -46.8 | -13.0 | -33.8 | |
| Rev. 03.03.09 | | | | | | | | | |
| Note: No other emissions were detected above the system noise floor. | | | | | | | | | |

ERP LTE 16QAM Band 26 (1.4 MHz BANDWIDTH)

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: Netgear
Project #: 13U15465
Date: 08/25/13
Test Engineer: K. Nguyen
Configuration: EUT w/ AC Adaptor
Mode: TX, LTE band 26, 1.4MHz, 16QAM

Chamber

3m Chamber

Pre-amplifier

T34 8449B

Filter

Filter 1

Limit

Part 24

| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes |
|-----------------------------|------------------|-----------------|--------------|-------------|-------------|-----------|-------------|------------|-------|
| Low Ch, (814.7 MHz) | | | | | | | | | |
| 1.629 | -18.4 | V | 3.0 | 30.6 | 1.0 | -48.0 | -13.0 | -35.0 | |
| 2.444 | -21.7 | V | 3.0 | 28.4 | 1.0 | -49.2 | -13.0 | -36.2 | |
| 3.259 | -21.6 | V | 3.0 | 26.7 | 1.0 | -47.2 | -13.0 | -34.2 | |
| 1.629 | -14.8 | H | 3.0 | 30.6 | 1.0 | -44.4 | -13.0 | -31.4 | |
| 2.444 | -22.6 | H | 3.0 | 28.4 | 1.0 | -50.0 | -13.0 | -37.0 | |
| 3.259 | -22.8 | H | 3.0 | 26.7 | 1.0 | -48.5 | -13.0 | -35.5 | |
| Mid Ch, (831.5 MHz) | | | | | | | | | |
| 1.663 | -18.9 | V | 3.0 | 30.5 | 1.0 | -48.4 | -13.0 | -35.4 | |
| 2.495 | -22.5 | V | 3.0 | 28.1 | 1.0 | -49.6 | -13.0 | -36.6 | |
| 3.326 | -22.1 | V | 3.0 | 26.6 | 1.0 | -47.7 | -13.0 | -34.7 | |
| 1.663 | -13.5 | H | 3.0 | 30.5 | 1.0 | -43.0 | -13.0 | -30.0 | |
| 2.495 | -21.0 | H | 3.0 | 28.1 | 1.0 | -48.1 | -13.0 | -35.1 | |
| 3.326 | -22.4 | H | 3.0 | 26.6 | 1.0 | -48.0 | -13.0 | -35.0 | |
| High Ch, (848.3 MHz) | | | | | | | | | |
| 1.697 | -17.8 | V | 3.0 | 30.5 | 1.0 | -47.3 | -13.0 | -34.3 | |
| 2.544 | -18.3 | V | 3.0 | 28.0 | 1.0 | -45.3 | -13.0 | -32.3 | |
| 3.393 | -21.4 | V | 3.0 | 26.5 | 1.0 | -46.9 | -13.0 | -33.9 | |
| 1.697 | -13.0 | H | 3.0 | 30.5 | 1.0 | -42.5 | -13.0 | -29.5 | |
| 2.544 | -20.4 | H | 3.0 | 28.0 | 1.0 | -47.4 | -13.0 | -34.4 | |
| 3.393 | -21.4 | H | 3.0 | 26.5 | 1.0 | -46.9 | -13.0 | -33.9 | |

Rev. 03.03.09
 Note: No other emissions were detected above the system noise floor.

ERP LTE QPSK Band 26 (3 MHz BANDWIDTH)

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: Netgear
Project #: 13U15465
Date: 08/25/13
Test Engineer: K. Nguyen
Configuration: EUT w/ AC Adaptor
Mode: TX, LTE band 26, 3MHz, QPSK

Chamber

3m Chamber

Pre-amplifier

T34 8449B

Filter

Filter 1

Limit

Part 24

| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes |
|-----------------------------|------------------|-----------------|--------------|-------------|-------------|-----------|-------------|------------|-------|
| Low Ch, (815.5 MHz) | | | | | | | | | |
| 1.631 | -24.4 | V | 3.0 | 30.6 | 1.0 | -54.0 | -13.0 | -41.0 | |
| 2.447 | -23.6 | V | 3.0 | 28.4 | 1.0 | -51.0 | -13.0 | -38.0 | |
| 3.262 | -22.3 | V | 3.0 | 26.7 | 1.0 | -48.0 | -13.0 | -35.0 | |
| 1.631 | -20.2 | H | 3.0 | 30.6 | 1.0 | -49.8 | -13.0 | -36.8 | |
| 2.447 | -24.3 | H | 3.0 | 28.4 | 1.0 | -51.7 | -13.0 | -38.7 | |
| 3.262 | -22.2 | H | 3.0 | 26.7 | 1.0 | -47.9 | -13.0 | -34.9 | |
| Mid Ch, (831.5 MHz) | | | | | | | | | |
| 1.663 | -18.4 | V | 3.0 | 30.5 | 1.0 | -47.9 | -13.0 | -34.9 | |
| 2.495 | -20.7 | V | 3.0 | 28.1 | 1.0 | -47.8 | -13.0 | -34.8 | |
| 3.326 | -21.4 | V | 3.0 | 26.6 | 1.0 | -47.0 | -13.0 | -34.0 | |
| 1.663 | -13.1 | H | 3.0 | 30.5 | 1.0 | -42.6 | -13.0 | -29.6 | |
| 2.495 | -18.3 | H | 3.0 | 28.1 | 1.0 | -45.4 | -13.0 | -32.4 | |
| 3.326 | -21.7 | H | 3.0 | 26.6 | 1.0 | -47.3 | -13.0 | -34.3 | |
| High Ch, (847.5 MHz) | | | | | | | | | |
| 1.695 | -15.0 | V | 3.0 | 30.5 | 1.0 | -44.5 | -13.0 | -31.5 | |
| 2.543 | -18.5 | V | 3.0 | 28.0 | 1.0 | -45.5 | -13.0 | -32.5 | |
| 3.390 | -21.3 | V | 3.0 | 26.5 | 1.0 | -46.8 | -13.0 | -33.8 | |
| 1.695 | -11.2 | H | 3.0 | 30.5 | 1.0 | -40.6 | -13.0 | -27.6 | |
| 2.543 | -17.9 | H | 3.0 | 28.0 | 1.0 | -44.9 | -13.0 | -31.9 | |
| 3.390 | -20.7 | H | 3.0 | 26.5 | 1.0 | -46.2 | -13.0 | -33.2 | |

Rev. 03.03.09
 Note: No other emissions were detected above the system noise floor.

ERP LTE 16QAM Band 26 (3 MHz BANDWIDTH)

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: Netgear
Project #: 13U15465
Date: 08/25/13
Test Engineer: K. Nguyen
Configuration: EUT w/ AC Adaptor
Mode: TX, LTE band 26, 3MHz, 16QAM

Chamber

3m Chamber

Pre-amplifier

T34 8449B

Filter

Filter 1

Limit

Part 24

| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes |
|-----------------------------|------------------|-----------------|--------------|-------------|-------------|-----------|-------------|------------|-------|
| Low Ch, (815.5 MHz) | | | | | | | | | |
| 1.631 | -25.4 | V | 3.0 | 30.6 | 1.0 | -55.0 | -13.0 | -42.0 | |
| 2.447 | -24.4 | V | 3.0 | 28.4 | 1.0 | -51.9 | -13.0 | -38.9 | |
| 3.262 | -22.5 | V | 3.0 | 26.7 | 1.0 | -48.2 | -13.0 | -35.2 | |
| 1.631 | -21.0 | H | 3.0 | 30.6 | 1.0 | -50.5 | -13.0 | -37.5 | |
| 2.447 | -25.5 | H | 3.0 | 28.4 | 1.0 | -52.9 | -13.0 | -39.9 | |
| 3.262 | -22.7 | H | 3.0 | 26.7 | 1.0 | -48.3 | -13.0 | -35.3 | |
| Mid Ch, (831.5 MHz) | | | | | | | | | |
| 1.663 | -19.1 | V | 3.0 | 30.5 | 1.0 | -48.6 | -13.0 | -35.6 | |
| 2.495 | -21.8 | V | 3.0 | 28.1 | 1.0 | -48.9 | -13.0 | -35.9 | |
| 3.326 | -21.7 | V | 3.0 | 26.6 | 1.0 | -47.3 | -13.0 | -34.3 | |
| 1.663 | -13.3 | H | 3.0 | 30.5 | 1.0 | -42.9 | -13.0 | -29.9 | |
| 2.495 | -19.3 | H | 3.0 | 28.1 | 1.0 | -46.5 | -13.0 | -33.5 | |
| 3.326 | -22.4 | H | 3.0 | 26.6 | 1.0 | -48.0 | -13.0 | -35.0 | |
| High Ch, (847.5 MHz) | | | | | | | | | |
| 1.695 | -15.6 | V | 3.0 | 30.5 | 1.0 | -45.1 | -13.0 | -32.1 | |
| 2.543 | -19.4 | V | 3.0 | 28.0 | 1.0 | -46.4 | -13.0 | -33.4 | |
| 3.390 | -21.5 | V | 3.0 | 26.5 | 1.0 | -47.1 | -13.0 | -34.1 | |
| 1.695 | -12.1 | H | 3.0 | 30.5 | 1.0 | -41.5 | -13.0 | -28.5 | |
| 2.543 | -19.1 | H | 3.0 | 28.0 | 1.0 | -46.1 | -13.0 | -33.1 | |
| 3.390 | -21.8 | H | 3.0 | 26.5 | 1.0 | -47.3 | -13.0 | -34.3 | |

Rev. 03.03.09
 Note: No other emissions were detected above the system noise floor.

ERP LTE QPSK Band 26 (5 MHz BANDWIDTH)

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: Netgear
Project #: 13U15465
Date: 08/25/13
Test Engineer: K. Nguyen
Configuration: EUT w/ AC Adaptor
Mode: TX, LTE band 26, 5MHz, QPSK

Chamber

Pre-amplifier

Filter

Limit

3m Chamber

T34 8449B

Filter 1

Part 24

| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes |
|-----------------------------|------------------|-----------------|--------------|-------------|-------------|-----------|-------------|------------|-------|
| Low Ch, (816.5 MHz) | | | | | | | | | |
| 1.633 | -17.1 | V | 3.0 | 30.6 | 1.0 | -46.6 | -13.0 | -33.6 | |
| 2.450 | -21.9 | V | 3.0 | 28.4 | 1.0 | -49.3 | -13.0 | -36.3 | |
| 3.266 | -21.2 | V | 3.0 | 26.7 | 1.0 | -46.8 | -13.0 | -33.8 | |
| 1.633 | -11.9 | H | 3.0 | 30.6 | 1.0 | -41.4 | -13.0 | -28.4 | |
| 2.450 | -13.3 | H | 3.0 | 28.4 | 1.0 | -40.7 | -13.0 | -27.7 | |
| 3.266 | -20.1 | H | 3.0 | 26.7 | 1.0 | -45.8 | -13.0 | -32.8 | |
| Mid Ch, (831.5 MHz) | | | | | | | | | |
| 1.663 | -17.4 | V | 3.0 | 30.5 | 1.0 | -46.9 | -13.0 | -33.9 | |
| 2.495 | -21.2 | V | 3.0 | 28.1 | 1.0 | -48.3 | -13.0 | -35.3 | |
| 3.326 | -22.1 | V | 3.0 | 26.6 | 1.0 | -47.7 | -13.0 | -34.7 | |
| 1.663 | -13.2 | H | 3.0 | 30.5 | 1.0 | -42.7 | -13.0 | -29.7 | |
| 2.495 | -22.9 | H | 3.0 | 28.1 | 1.0 | -50.1 | -13.0 | -37.1 | |
| 3.326 | -20.8 | H | 3.0 | 26.6 | 1.0 | -46.4 | -13.0 | -33.4 | |
| High Ch, (846.5 MHz) | | | | | | | | | |
| 1.693 | -13.8 | V | 3.0 | 30.5 | 1.0 | -43.2 | -13.0 | -30.2 | |
| 2.540 | -21.0 | V | 3.0 | 28.0 | 1.0 | -48.0 | -13.0 | -35.0 | |
| 3.386 | -20.1 | V | 3.0 | 26.5 | 1.0 | -45.6 | -13.0 | -32.6 | |
| 1.693 | -10.7 | H | 3.0 | 30.5 | 1.0 | -40.2 | -13.0 | -27.2 | |
| 2.540 | -19.8 | H | 3.0 | 28.0 | 1.0 | -46.8 | -13.0 | -33.8 | |
| 3.386 | -19.8 | H | 3.0 | 26.5 | 1.0 | -45.3 | -13.0 | -32.3 | |

Rev. 03.03.09
 Note: No other emissions were detected above the system noise floor.

ERP LTE 16QAM Band 26 (5 MHz BANDWIDTH)

| Compliance Certification Services Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|---|------------------|------------------------------|--------------|---------------|-------------|--------------|-------------|------------|-------|
| Company: | | Netgear | | | | | | | |
| Project #: | | 13U15465 | | | | | | | |
| Date: | | 08/25/13 | | | | | | | |
| Test Engineer: | | K. Nguyen | | | | | | | |
| Configuration: | | EUT w/ AC Adaptor | | | | | | | |
| Mode: | | TX, LTE band 26, 5MHz, 16QAM | | | | | | | |
| Chamber | | Pre-amplifier | | Filter | | Limit | | | |
| 3m Chamber | | T34 8449B | | Filter 1 | | Part 24 | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch, (816.5 MHz) | | | | | | | | | |
| 1.633 | -17.4 | V | 3.0 | 30.6 | 1.0 | -47.0 | -13.0 | -34.0 | |
| 2.450 | -23.1 | V | 3.0 | 28.4 | 1.0 | -50.5 | -13.0 | -37.5 | |
| 3.266 | -21.6 | V | 3.0 | 26.7 | 1.0 | -47.2 | -13.0 | -34.2 | |
| 1.633 | -13.1 | H | 3.0 | 30.6 | 1.0 | -42.6 | -13.0 | -29.6 | |
| 2.450 | -14.9 | H | 3.0 | 28.4 | 1.0 | -42.3 | -13.0 | -29.3 | |
| 3.266 | -20.9 | H | 3.0 | 26.7 | 1.0 | -46.5 | -13.0 | -33.5 | |
| Mid Ch, (831.5 MHz) | | | | | | | | | |
| 1.663 | -18.0 | V | 3.0 | 30.5 | 1.0 | -47.5 | -13.0 | -34.5 | |
| 2.495 | -22.1 | V | 3.0 | 28.1 | 1.0 | -49.3 | -13.0 | -36.3 | |
| 3.326 | -22.6 | V | 3.0 | 26.6 | 1.0 | -48.2 | -13.0 | -35.2 | |
| 1.663 | -14.4 | H | 3.0 | 30.5 | 1.0 | -43.9 | -13.0 | -30.9 | |
| 2.495 | -23.7 | H | 3.0 | 28.1 | 1.0 | -50.8 | -13.0 | -37.8 | |
| 3.326 | -21.5 | H | 3.0 | 26.6 | 1.0 | -47.1 | -13.0 | -34.1 | |
| High Ch, (846.5 MHz) | | | | | | | | | |
| 1.693 | -14.5 | V | 3.0 | 30.5 | 1.0 | -44.0 | -13.0 | -31.0 | |
| 2.540 | -21.7 | V | 3.0 | 28.0 | 1.0 | -48.7 | -13.0 | -35.7 | |
| 3.386 | -20.2 | V | 3.0 | 26.5 | 1.0 | -45.7 | -13.0 | -32.7 | |
| 1.693 | -11.3 | H | 3.0 | 30.5 | 1.0 | -40.7 | -13.0 | -27.7 | |
| 2.540 | -20.5 | H | 3.0 | 28.0 | 1.0 | -47.5 | -13.0 | -34.5 | |
| 3.386 | -20.4 | H | 3.0 | 26.5 | 1.0 | -45.9 | -13.0 | -32.9 | |
| Rev. 03.03.09 | | | | | | | | | |
| Note: No other emissions were detected above the system noise floor. | | | | | | | | | |

EIRP LTE QPSK Band 41 (10MHz BANDWIDTH)

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: Netgear
Project #: 13U15465
Date: 08/28/13
Test Engineer: K. Nguyen
Configuration: EUT with AC Adapter
Mode: TX, LTE Band 41, 10MHz, QPSK

Chamber

5m Chamber A

Pre-amplifier

T144 8449B

Filter

Filter 1

Limit

Part 24

| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes |
|----------------------------|------------------|-----------------|--------------|-------------|-------------|-----------|-------------|------------|-------|
| Low Ch, (2501 MHz) | | | | | | | | | |
| 5.002 | -21.4 | V | 3.0 | 24.5 | 1.0 | -44.9 | -13.0 | -31.9 | |
| 7.503 | -27.2 | V | 3.0 | 23.0 | 1.0 | -49.2 | -13.0 | -36.2 | |
| 10.004 | -26.1 | V | 3.0 | 22.5 | 1.0 | -47.6 | -13.0 | -34.6 | |
| 12.505 | -29.8 | V | 3.0 | 23.8 | 1.0 | -52.5 | -13.0 | -39.5 | |
| 5.002 | -16.1 | H | 3.0 | 24.5 | 1.0 | -39.7 | -13.0 | -26.7 | |
| 7.503 | -25.5 | H | 3.0 | 23.0 | 1.0 | -47.5 | -13.0 | -34.5 | |
| 10.004 | -23.9 | H | 3.0 | 22.5 | 1.0 | -45.4 | -13.0 | -32.4 | |
| 12.505 | -29.2 | H | 3.0 | 23.8 | 1.0 | -51.9 | -13.0 | -38.9 | |
| Mid Ch, (2593 MHz) | | | | | | | | | |
| 5.186 | -24.5 | V | 3.0 | 24.3 | 1.0 | -47.8 | -13.0 | -34.8 | |
| 7.779 | -23.4 | V | 3.0 | 23.0 | 1.0 | -45.4 | -13.0 | -32.4 | |
| 10.372 | -24.5 | V | 3.0 | 22.9 | 1.0 | -46.3 | -13.0 | -33.3 | |
| 12.965 | -29.6 | V | 3.0 | 23.3 | 1.0 | -51.9 | -13.0 | -38.9 | |
| 5.186 | -21.9 | H | 3.0 | 24.3 | 1.0 | -45.2 | -13.0 | -32.2 | |
| 7.779 | -20.3 | H | 3.0 | 23.0 | 1.0 | -42.2 | -13.0 | -29.2 | |
| 10.372 | -25.7 | H | 3.0 | 22.9 | 1.0 | -47.6 | -13.0 | -34.6 | |
| 12.965 | -28.1 | H | 3.0 | 23.3 | 1.0 | -50.3 | -13.0 | -37.3 | |
| High Ch, (2685 MHz) | | | | | | | | | |
| 5.370 | -20.6 | V | 3.0 | 24.2 | 1.0 | -43.8 | -13.0 | -30.8 | |
| 8.055 | -22.6 | V | 3.0 | 22.9 | 1.0 | -44.5 | -13.0 | -31.5 | |
| 10.740 | -20.5 | V | 3.0 | 23.2 | 1.0 | -42.7 | -13.0 | -29.7 | |
| 5.370 | -17.5 | H | 3.0 | 24.2 | 1.0 | -40.6 | -13.0 | -27.6 | |
| 8.055 | -18.6 | H | 3.0 | 22.9 | 1.0 | -40.5 | -13.0 | -27.5 | |
| 10.740 | -17.8 | H | 3.0 | 23.2 | 1.0 | -40.0 | -13.0 | -27.0 | |

Rev. 03.03.09
 Note: No other emissions were detected above the system noise floor.

EIRP LTE 16QAM Band 41 (10MHz BANDWIDTH)

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: Netgear
Project #: 13U15465
Date: 08/28/13
Test Engineer: K. Nguyen
Configuration: EUT with AC Adapter
Mode: TX LTE Band 41, 10MHz, 16QAM

Chamber

Pre-amplifier

Filter

Limit

5m Chamber A

T144 8449B

Filter 1

Part 24

| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes |
|----------------------------|------------------|-----------------|--------------|-------------|-------------|-----------|-------------|------------|-------|
| Low Ch, (2501 MHz) | | | | | | | | | |
| 5.002 | -21.9 | V | 3.0 | 24.5 | 1.0 | -45.4 | -13.0 | -32.4 | |
| 7.503 | -27.9 | V | 3.0 | 23.0 | 1.0 | -49.9 | -13.0 | -36.9 | |
| 10.004 | -26.6 | V | 3.0 | 22.5 | 1.0 | -48.2 | -13.0 | -35.2 | |
| 12.505 | -30.0 | V | 3.0 | 23.8 | 1.0 | -52.7 | -13.0 | -39.7 | |
| 5.002 | -17.0 | H | 3.0 | 24.5 | 1.0 | -40.5 | -13.0 | -27.5 | |
| 7.503 | -25.9 | H | 3.0 | 23.0 | 1.0 | -48.0 | -13.0 | -35.0 | |
| 10.004 | -24.0 | H | 3.0 | 22.5 | 1.0 | -45.6 | -13.0 | -32.6 | |
| 12.505 | -29.3 | H | 3.0 | 23.8 | 1.0 | -52.1 | -13.0 | -39.1 | |
| Mid Ch, (2593 MHz) | | | | | | | | | |
| 5.186 | -24.6 | V | 3.0 | 24.3 | 1.0 | -47.9 | -13.0 | -34.9 | |
| 7.779 | -23.6 | V | 3.0 | 23.0 | 1.0 | -45.6 | -13.0 | -32.6 | |
| 10.372 | -25.0 | V | 3.0 | 22.9 | 1.0 | -46.8 | -13.0 | -33.8 | |
| 12.965 | -29.7 | V | 3.0 | 23.3 | 1.0 | -52.0 | -13.0 | -39.0 | |
| 5.186 | -22.0 | H | 3.0 | 24.3 | 1.0 | -45.3 | -13.0 | -32.3 | |
| 7.779 | -20.4 | H | 3.0 | 23.0 | 1.0 | -42.4 | -13.0 | -29.4 | |
| 10.372 | -26.3 | H | 3.0 | 22.9 | 1.0 | -48.2 | -13.0 | -35.2 | |
| 12.965 | -28.2 | H | 3.0 | 23.3 | 1.0 | -50.4 | -13.0 | -37.4 | |
| High Ch, (2685 MHz) | | | | | | | | | |
| 5.370 | -20.8 | V | 3.0 | 24.2 | 1.0 | -43.9 | -13.0 | -30.9 | |
| 8.055 | -22.9 | V | 3.0 | 22.9 | 1.0 | -44.8 | -13.0 | -31.8 | |
| 10.740 | -21.2 | V | 3.0 | 23.2 | 1.0 | -43.3 | -13.0 | -30.3 | |
| 5.370 | -17.9 | H | 3.0 | 24.2 | 1.0 | -41.1 | -13.0 | -28.1 | |
| 8.055 | -19.0 | H | 3.0 | 22.9 | 1.0 | -40.9 | -13.0 | -27.9 | |
| 10.740 | -17.8 | H | 3.0 | 23.2 | 1.0 | -40.0 | -13.0 | -27.0 | |

Rev. 03.03.09
 Note: No other emissions were detected above the system noise floor.

EIRP LTE QPSK Band 41 (15MHz BANDWIDTH)

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: Netgear
Project #: 13U15465
Date: 08/28/13
Test Engineer: K. Nguyen
Configuration: EUT with AC Adapter
Mode: TX, LTE Band 41, 15MHz, QPSK

Chamber

Pre-amplifier

Filter

Limit

5m Chamber A

T144 8449B

Filter 1

Part 24

| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes |
|------------------------------|------------------|-----------------|--------------|-------------|-------------|-----------|-------------|------------|-------|
| Low Ch, (2503.5 MHz) | | | | | | | | | |
| 5.007 | -17.1 | V | 3.0 | 24.5 | 1.0 | -40.6 | -13.0 | -27.6 | |
| 7.511 | -18.1 | V | 3.0 | 23.0 | 1.0 | -40.1 | -13.0 | -27.1 | |
| 10.014 | -26.9 | V | 3.0 | 22.5 | 1.0 | -48.4 | -13.0 | -35.4 | |
| 12.518 | -33.1 | V | 3.0 | 23.7 | 1.0 | -55.9 | -13.0 | -42.9 | |
| 5.007 | -12.9 | H | 3.0 | 24.5 | 1.0 | -36.4 | -13.0 | -23.4 | |
| 7.511 | -15.4 | H | 3.0 | 23.0 | 1.0 | -37.4 | -13.0 | -24.4 | |
| 10.014 | -24.5 | H | 3.0 | 22.5 | 1.0 | -46.0 | -13.0 | -33.0 | |
| 12.518 | -29.1 | H | 3.0 | 23.7 | 1.0 | -51.8 | -13.0 | -38.8 | |
| Mid Ch, (2593 MHz) | | | | | | | | | |
| 5.186 | -22.0 | V | 3.0 | 24.3 | 1.0 | -45.3 | -13.0 | -32.3 | |
| 7.779 | -17.9 | V | 3.0 | 23.0 | 1.0 | -39.8 | -13.0 | -26.8 | |
| 10.372 | -28.8 | V | 3.0 | 22.9 | 1.0 | -50.7 | -13.0 | -37.7 | |
| 12.965 | -28.9 | V | 3.0 | 23.3 | 1.0 | -51.2 | -13.0 | -38.2 | |
| 5.186 | -18.3 | H | 3.0 | 24.3 | 1.0 | -41.6 | -13.0 | -28.6 | |
| 7.779 | -16.0 | H | 3.0 | 23.0 | 1.0 | -38.0 | -13.0 | -25.0 | |
| 10.372 | -26.0 | H | 3.0 | 22.9 | 1.0 | -47.8 | -13.0 | -34.8 | |
| 12.965 | -26.2 | H | 3.0 | 23.3 | 1.0 | -48.5 | -13.0 | -35.5 | |
| High Ch, (2682.5 MHz) | | | | | | | | | |
| 5.365 | -22.4 | V | 3.0 | 24.2 | 1.0 | -45.6 | -13.0 | -32.6 | |
| 8.048 | -24.8 | V | 3.0 | 22.9 | 1.0 | -46.7 | -13.0 | -33.7 | |
| 10.730 | -26.6 | V | 3.0 | 23.2 | 1.0 | -48.8 | -13.0 | -35.8 | |
| 5.365 | -19.4 | H | 3.0 | 24.2 | 1.0 | -42.6 | -13.0 | -29.6 | |
| 8.048 | -25.7 | H | 3.0 | 22.9 | 1.0 | -47.6 | -13.0 | -34.6 | |
| 10.730 | -26.4 | H | 3.0 | 23.2 | 1.0 | -48.6 | -13.0 | -35.6 | |

Rev. 03.03.09
 Note: No other emissions were detected above the system noise floor.

EIRP LTE 16QAM Band 41 (15MHz BANDWIDTH)

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: Netgear
Project #: 13U15465
Date: 08/28/13
Test Engineer: K. Nguyen
Configuration: EUT with AC Adapter
Mode: TX LTE Band 41, 15MHz, 16QAM

Chamber

Pre-amplifier

Filter

Limit

5m Chamber A

T144 8449B

Filter 1

Part 24

| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes |
|------------------------------|------------------|-----------------|--------------|-------------|-------------|-----------|-------------|------------|-------|
| Low Ch, (2503.5 MHz) | | | | | | | | | |
| 5.007 | -17.2 | V | 3.0 | 24.5 | 1.0 | -40.7 | -13.0 | -27.7 | |
| 7.511 | -18.1 | V | 3.0 | 23.0 | 1.0 | -40.1 | -13.0 | -27.1 | |
| 10.014 | -27.3 | V | 3.0 | 22.5 | 1.0 | -48.9 | -13.0 | -35.9 | |
| 12.518 | -35.0 | V | 3.0 | 23.7 | 1.0 | -57.7 | -13.0 | -44.7 | |
| 5.007 | -14.0 | H | 3.0 | 24.5 | 1.0 | -37.5 | -13.0 | -24.5 | |
| 7.511 | -16.2 | H | 3.0 | 23.0 | 1.0 | -38.2 | -13.0 | -25.2 | |
| 10.014 | -25.3 | H | 3.0 | 22.5 | 1.0 | -46.8 | -13.0 | -33.8 | |
| 12.518 | -29.7 | H | 3.0 | 23.7 | 1.0 | -52.4 | -13.0 | -39.4 | |
| Mid Ch, (2593 MHz) | | | | | | | | | |
| 5.186 | -22.2 | V | 3.0 | 24.3 | 1.0 | -45.5 | -13.0 | -32.5 | |
| 7.779 | -18.6 | V | 3.0 | 23.0 | 1.0 | -40.5 | -13.0 | -27.5 | |
| 10.372 | -29.8 | V | 3.0 | 22.9 | 1.0 | -51.7 | -13.0 | -38.7 | |
| 12.965 | -29.6 | V | 3.0 | 23.3 | 1.0 | -51.9 | -13.0 | -38.9 | |
| 5.186 | 91.1 | H | 3.0 | 24.3 | 1.0 | 67.8 | -13.0 | 80.8 | |
| 7.779 | -16.8 | H | 3.0 | 23.0 | 1.0 | -38.8 | -13.0 | -25.8 | |
| 10.372 | -26.2 | H | 3.0 | 22.9 | 1.0 | -48.1 | -13.0 | -35.1 | |
| 12.965 | -26.5 | H | 3.0 | 23.3 | 1.0 | -48.8 | -13.0 | -35.8 | |
| High Ch, (2682.5 MHz) | | | | | | | | | |
| 5.365 | -23.0 | V | 3.0 | 24.2 | 1.0 | -46.2 | -13.0 | -33.2 | |
| 8.048 | -25.6 | V | 3.0 | 22.9 | 1.0 | -47.5 | -13.0 | -34.5 | |
| 10.730 | -26.9 | V | 3.0 | 23.2 | 1.0 | -49.1 | -13.0 | -36.1 | |
| 5.365 | -20.1 | H | 3.0 | 24.2 | 1.0 | -43.3 | -13.0 | -30.3 | |
| 8.048 | -25.9 | H | 3.0 | 22.9 | 1.0 | -47.8 | -13.0 | -34.8 | |
| 10.730 | -26.5 | H | 3.0 | 23.2 | 1.0 | -48.6 | -13.0 | -35.6 | |

Rev. 03.03.09
 Note: No other emissions were detected above the system noise floor.

EIRP LTE QPSK Band 41 (20 MHz BANDWIDTH)

| Compliance Certification Services Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|---|------------------|------------------------------|--------------|-------------|---------------|-----------|--------------|------------|-------|
| Company: | | Netgear | | | | | | | |
| Project #: | | 13U15465 | | | | | | | |
| Date: | | 08/28/13 | | | | | | | |
| Test Engineer: | | J Gomez | | | | | | | |
| Configuration: | | EUT , with AC Adapter | | | | | | | |
| Mode: | | TX, LTE band 41, 20MHz, QPSK | | | | | | | |
| Chamber | | Pre-amplifier | | | Filter | | Limit | | |
| 5m Chamber A | | T144 8449B | | | Filter 1 | | Part 24 | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch, (2506 MHz) | | | | | | | | | |
| 4.994 | -22.9 | V | 3.0 | 24.5 | 1.0 | -46.4 | -13.0 | -33.4 | |
| 7.491 | -32.6 | V | 3.0 | 23.0 | 1.0 | -54.6 | -13.0 | -41.6 | |
| 9.988 | -32.7 | V | 3.0 | 22.5 | 1.0 | -54.2 | -13.0 | -41.2 | |
| 12.485 | -35.7 | V | 3.0 | 23.8 | 1.0 | -58.5 | -13.0 | -45.5 | |
| 14.982 | -35.8 | V | 3.0 | 21.1 | 1.0 | -55.9 | -13.0 | -42.9 | |
| 17.480 | -29.7 | V | 3.0 | 21.0 | 1.0 | -49.8 | -13.0 | -36.8 | |
| 4.994 | -19.9 | H | 3.0 | 24.5 | 1.0 | -43.5 | -13.0 | -30.5 | |
| 7.491 | -29.6 | H | 3.0 | 23.0 | 1.0 | -51.6 | -13.0 | -38.6 | |
| 9.988 | -32.8 | H | 3.0 | 22.5 | 1.0 | -54.3 | -13.0 | -41.3 | |
| 12.485 | -37.1 | H | 3.0 | 23.8 | 1.0 | -59.9 | -13.0 | -46.9 | |
| 14.982 | -35.9 | H | 3.0 | 21.1 | 1.0 | -56.0 | -13.0 | -43.0 | |
| 17.480 | -30.6 | H | 3.0 | 21.0 | 1.0 | -50.6 | -13.0 | -37.6 | |
| Mid Ch, (2593 MHz) | | | | | | | | | |
| 5.168 | -25.9 | V | 3.0 | 24.3 | 1.0 | -49.3 | -13.0 | -36.3 | |
| 7.752 | -27.0 | V | 3.0 | 23.0 | 1.0 | -49.0 | -13.0 | -36.0 | |
| 10.336 | -33.7 | V | 3.0 | 22.8 | 1.0 | -55.6 | -13.0 | -42.6 | |
| 12.920 | -37.9 | V | 3.0 | 23.3 | 1.0 | -60.2 | -13.0 | -47.2 | |
| 15.504 | -33.4 | V | 3.0 | 21.1 | 1.0 | -53.5 | -13.0 | -53.5 | |
| 5.168 | -24.0 | H | 3.0 | 24.3 | 1.0 | -47.4 | -13.0 | -34.4 | |
| 7.752 | -12.9 | H | 3.0 | 23.0 | 1.0 | -34.8 | -13.0 | -21.8 | |
| 10.336 | -33.3 | H | 3.0 | 22.8 | 1.0 | -55.1 | -13.0 | -42.1 | |
| 12.920 | -37.1 | H | 3.0 | 23.3 | 1.0 | -59.4 | -13.0 | -46.4 | |
| 15.504 | -32.0 | H | 3.0 | 21.1 | 1.0 | -52.1 | -13.0 | -52.1 | |
| High Ch, (2680 MHz) | | | | | | | | | |
| 5.342 | -25.5 | V | 3.0 | 24.2 | 1.0 | -48.7 | -13.0 | -35.7 | |
| 8.013 | -25.9 | V | 3.0 | 22.9 | 1.0 | -47.8 | -13.0 | -34.8 | |
| 10.684 | -32.8 | V | 3.0 | 23.1 | 1.0 | -55.0 | -13.0 | -42.0 | |
| 13.355 | -24.7 | V | 3.0 | 22.9 | 1.0 | -46.5 | -13.0 | -33.5 | |
| 16.026 | -28.1 | V | 3.0 | 21.1 | 1.0 | -48.2 | -13.0 | -35.2 | |
| 5.342 | -24.9 | H | 3.0 | 24.2 | 1.0 | -48.1 | -13.0 | -35.1 | |
| 8.013 | -27.9 | H | 3.0 | 22.9 | 1.0 | -49.8 | -13.0 | -36.8 | |
| 10.684 | -32.1 | H | 3.0 | 23.1 | 1.0 | -54.2 | -13.0 | -41.2 | |
| 13.355 | -30.7 | H | 3.0 | 22.9 | 1.0 | -52.5 | -13.0 | -39.5 | |
| 16.026 | -28.6 | H | 3.0 | 21.1 | 1.0 | -48.7 | -13.0 | -35.7 | |
| Rev. 03.03.09 | | | | | | | | | |
| Note: No other emissions were detected above the system noise floor. | | | | | | | | | |

EIRP LTE 16QAM Band 41 (20MHz BANDWIDTH)

| Compliance Certification Services Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|---|------------------|-------------------------------|--------------|-------------|---------------|-----------|--------------|------------|-------|
| Company: | | Netgear | | | | | | | |
| Project #: | | 13U15465 | | | | | | | |
| Date: | | 08/28/13 | | | | | | | |
| Test Engineer: | | J Gomez | | | | | | | |
| Configuration: | | EUT , with AC Adapter | | | | | | | |
| Mode: | | TX, LTE band 41, 20MHz, 16QAM | | | | | | | |
| Chamber | | Pre-amplifier | | | Filter | | Limit | | |
| 5m Chamber A | | T144 8449B | | | Filter 1 | | Part 24 | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch, (2506 MHz) | | | | | | | | | |
| 4.994 | -21.8 | V | 3.0 | 24.5 | 1.0 | -45.3 | -13.0 | -32.3 | |
| 7.491 | -32.2 | V | 3.0 | 23.0 | 1.0 | -54.3 | -13.0 | -41.3 | |
| 9.988 | -30.8 | V | 3.0 | 22.5 | 1.0 | -52.4 | -13.0 | -39.4 | |
| 12.485 | -35.3 | V | 3.0 | 23.8 | 1.0 | -58.1 | -13.0 | -45.1 | |
| 14.982 | -36.6 | V | 3.0 | 21.1 | 1.0 | -56.8 | -13.0 | -43.8 | |
| 17.480 | -30.1 | V | 3.0 | 21.0 | 1.0 | -50.1 | -13.0 | -37.1 | |
| 4.994 | -20.0 | H | 3.0 | 24.5 | 1.0 | -43.6 | -13.0 | -30.6 | |
| 7.491 | -30.5 | H | 3.0 | 23.0 | 1.0 | -52.5 | -13.0 | -39.5 | |
| 9.988 | -32.6 | H | 3.0 | 22.5 | 1.0 | -54.1 | -13.0 | -41.1 | |
| 12.485 | -36.3 | H | 3.0 | 23.8 | 1.0 | -59.1 | -13.0 | -46.1 | |
| 14.982 | -35.7 | H | 3.0 | 21.1 | 1.0 | -55.8 | -13.0 | -42.8 | |
| 17.480 | -30.3 | H | 3.0 | 21.0 | 1.0 | -50.3 | -13.0 | -37.3 | |
| Mid Ch, (2593 MHz) | | | | | | | | | |
| 5.168 | -25.3 | V | 3.0 | 24.3 | 1.0 | -48.6 | -13.0 | -35.6 | |
| 7.752 | -26.5 | V | 3.0 | 23.0 | 1.0 | -48.5 | -13.0 | -35.5 | |
| 10.336 | -33.2 | V | 3.0 | 22.8 | 1.0 | -55.0 | -13.0 | -42.0 | |
| 12.920 | -36.7 | V | 3.0 | 23.3 | 1.0 | -59.0 | -13.0 | -46.0 | |
| 15.504 | -33.5 | V | 3.0 | 21.1 | 1.0 | -53.6 | -13.0 | -53.6 | |
| 5.168 | -24.1 | H | 3.0 | 24.3 | 1.0 | -47.4 | -13.0 | -34.4 | |
| 7.752 | -12.6 | H | 3.0 | 23.0 | 1.0 | -34.6 | -13.0 | -21.6 | |
| 10.336 | -33.0 | H | 3.0 | 22.8 | 1.0 | -54.8 | -13.0 | -41.8 | |
| 12.920 | -37.0 | H | 3.0 | 23.3 | 1.0 | -59.3 | -13.0 | -46.3 | |
| 15.504 | -31.1 | H | 3.0 | 21.1 | 1.0 | -51.2 | -13.0 | -51.2 | |
| High Ch, (2680 MHz) | | | | | | | | | |
| 5.342 | -25.2 | V | 3.0 | 24.2 | 1.0 | -48.4 | -13.0 | -35.4 | |
| 8.013 | -26.2 | V | 3.0 | 22.9 | 1.0 | -48.1 | -13.0 | -35.1 | |
| 10.684 | -31.3 | V | 3.0 | 23.1 | 1.0 | -53.4 | -13.0 | -40.4 | |
| 13.355 | -23.6 | V | 3.0 | 22.9 | 1.0 | -45.5 | -13.0 | -32.5 | |
| 16.026 | -26.0 | V | 3.0 | 21.1 | 1.0 | -46.1 | -13.0 | -33.1 | |
| 5.342 | -23.0 | H | 3.0 | 24.2 | 1.0 | -46.2 | -13.0 | -33.2 | |
| 8.013 | -28.1 | H | 3.0 | 22.9 | 1.0 | -50.0 | -13.0 | -37.0 | |
| 10.684 | -33.1 | H | 3.0 | 23.1 | 1.0 | -55.2 | -13.0 | -42.2 | |
| 13.355 | -30.6 | H | 3.0 | 22.9 | 1.0 | -52.5 | -13.0 | -39.5 | |
| 16.026 | -28.1 | H | 3.0 | 21.1 | 1.0 | -48.2 | -13.0 | -35.2 | |
| Rev. 03.03.09 | | | | | | | | | |
| Note: No other emissions were detected above the system noise floor. | | | | | | | | | |