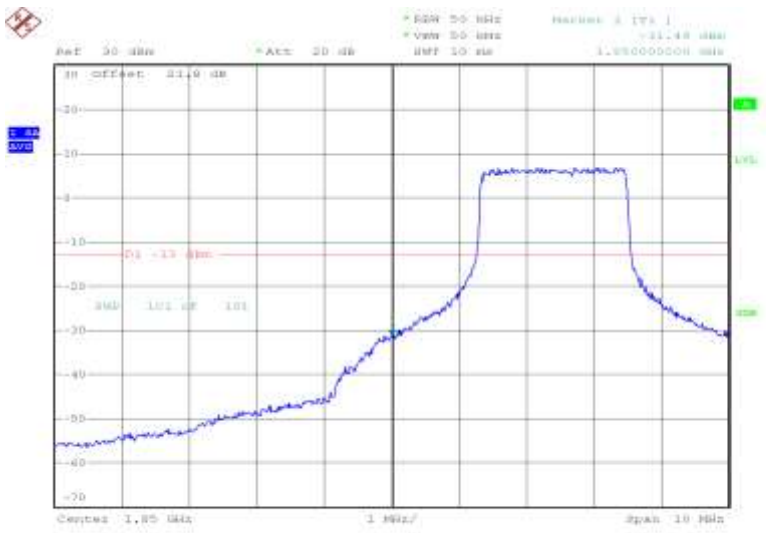
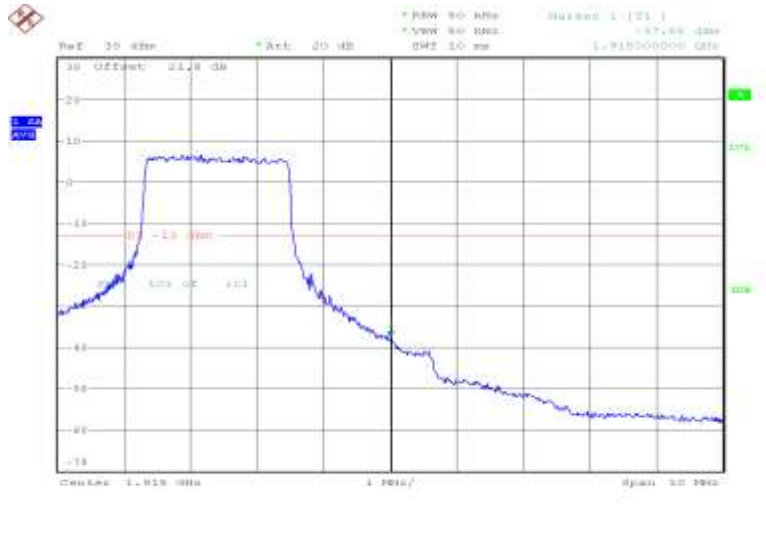
LOW CH, RB12-6



HIGH CH, RB12-6



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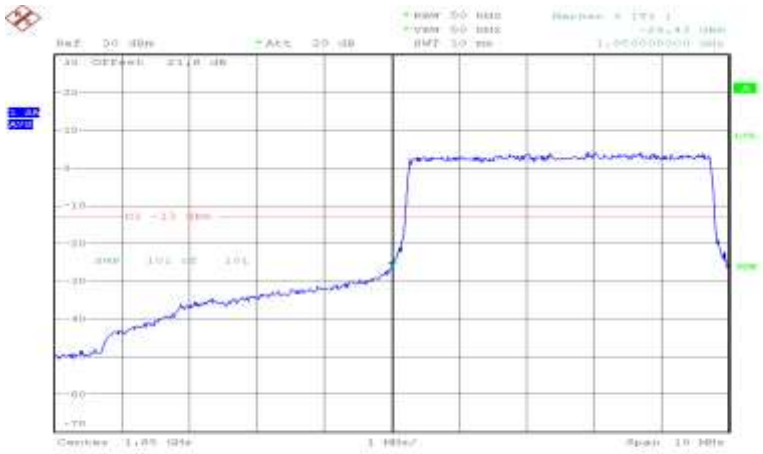
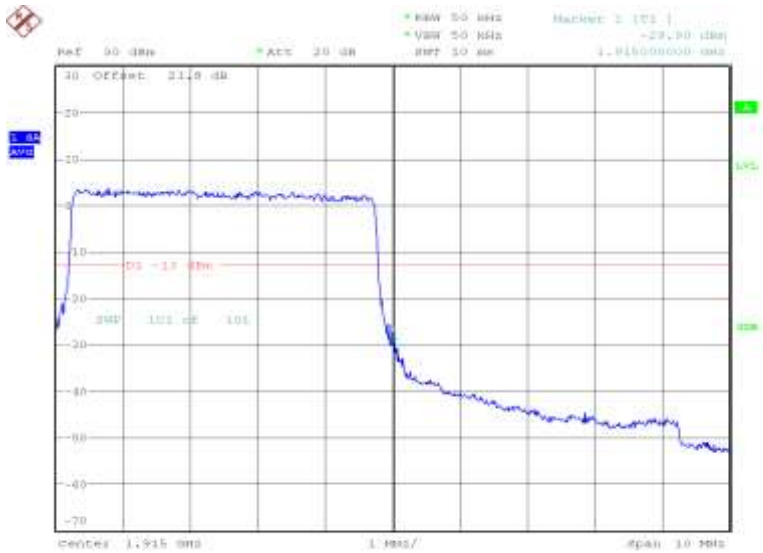
LOW CH, RB25-0



HIGH CH, RB25-0



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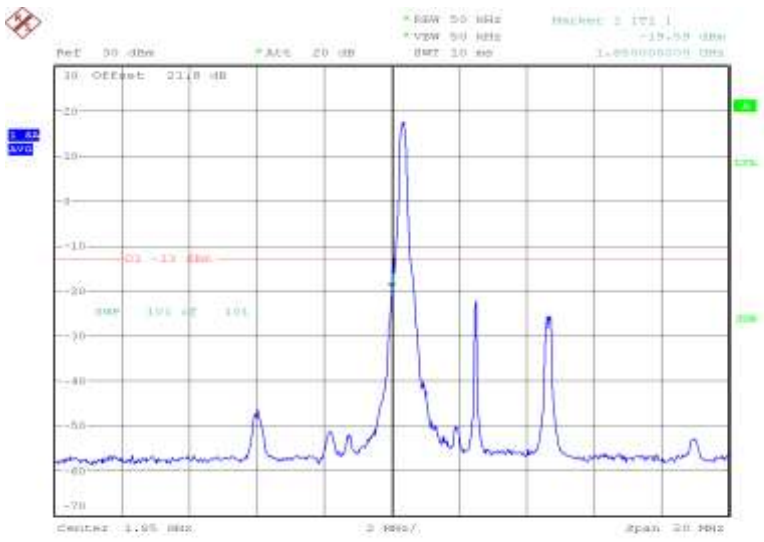
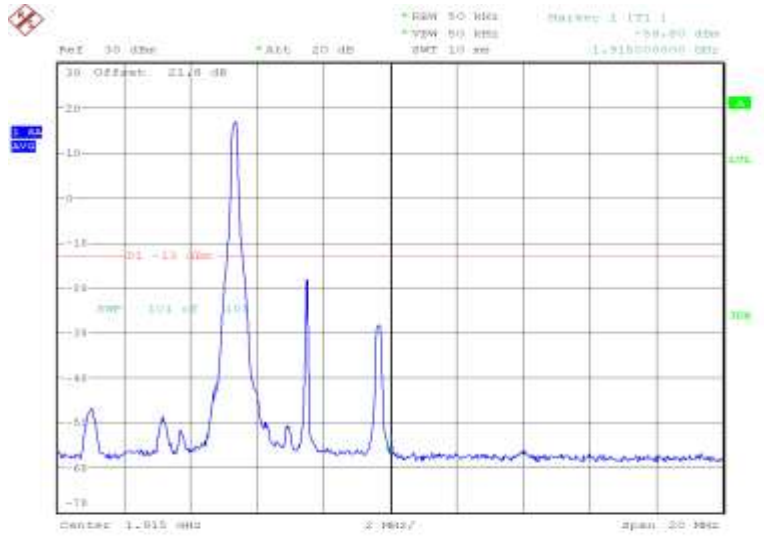
LTE 16QAM Band 25 (5.0 MHz BAND WIDTH)

LOW CH, RB1-0



HIGH CH, RB1-0



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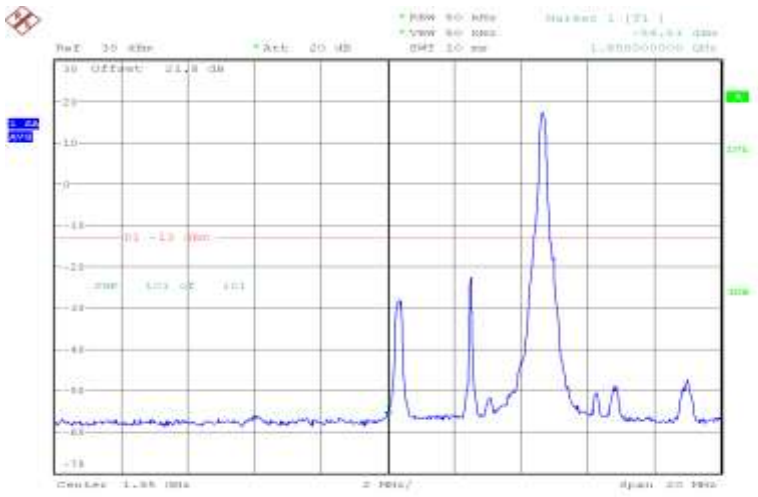
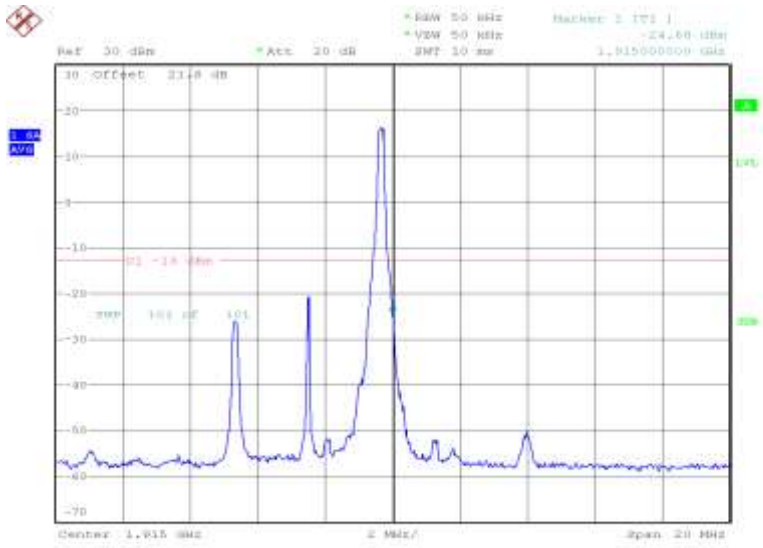
LOW CH, RB1-24



HIGH CH, RB1-24



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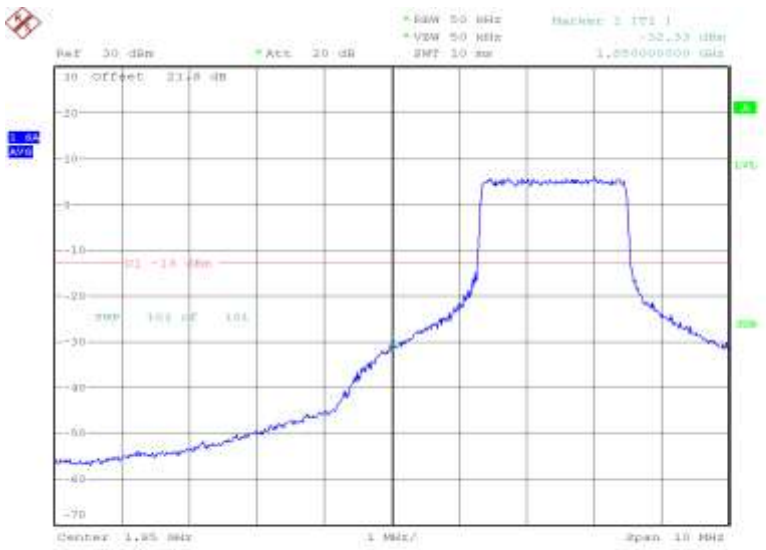
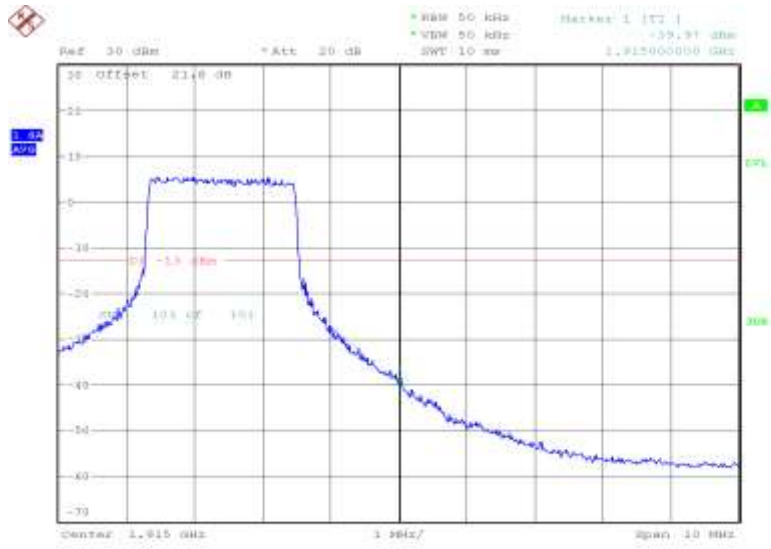
LOW CH, RB12-6



HIGH CH, RB12-6



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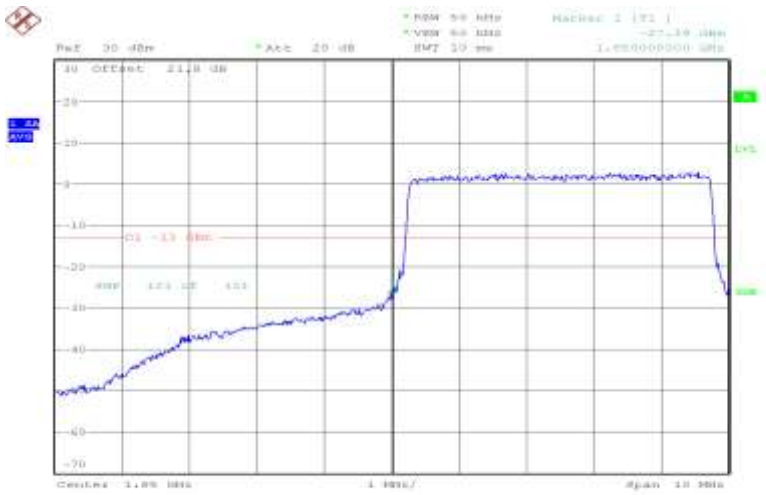
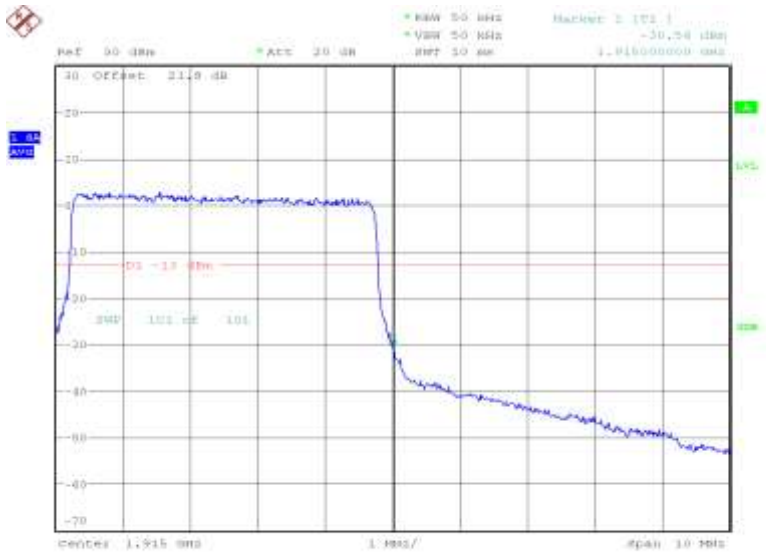
LOW CH, RB25-0



HIGH CH, RB25-0



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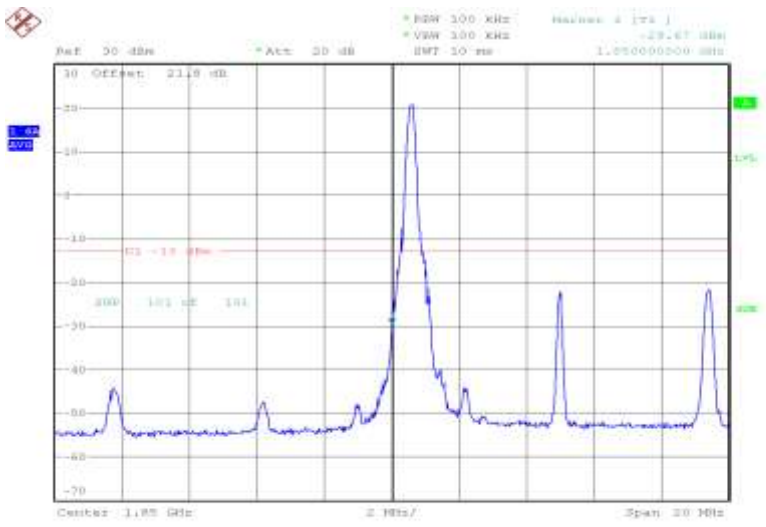
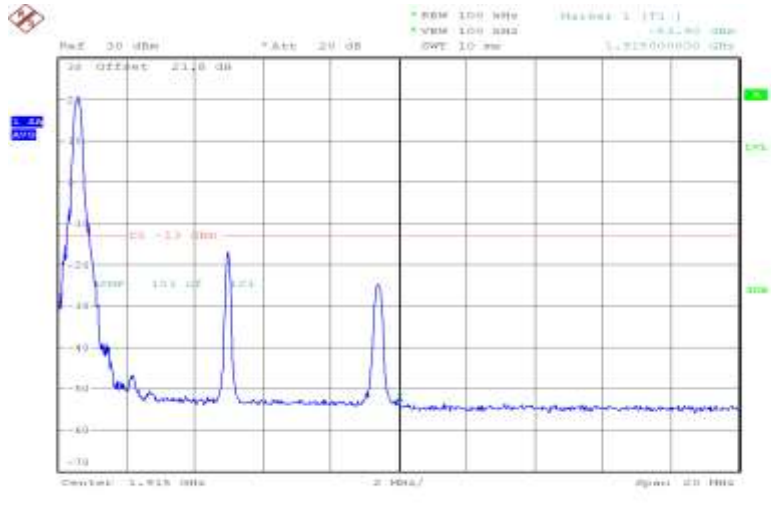
LTE QPSK Band 25 (10.0 MHz BAND WIDTH)

LOW CH, RB1-0



HIGH CH, RB1-0



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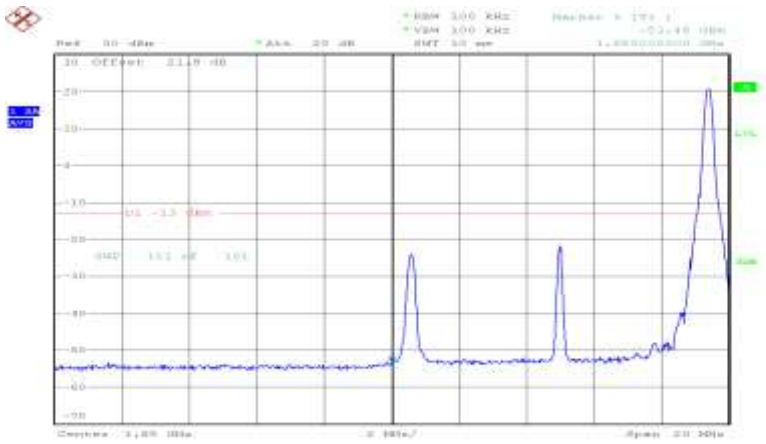
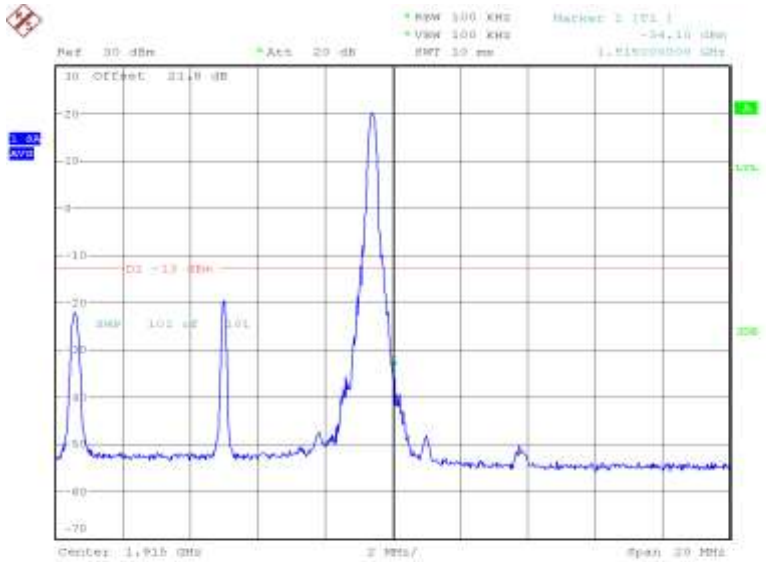
LOW CH, RB1-49



HIGH CH, RB1-49



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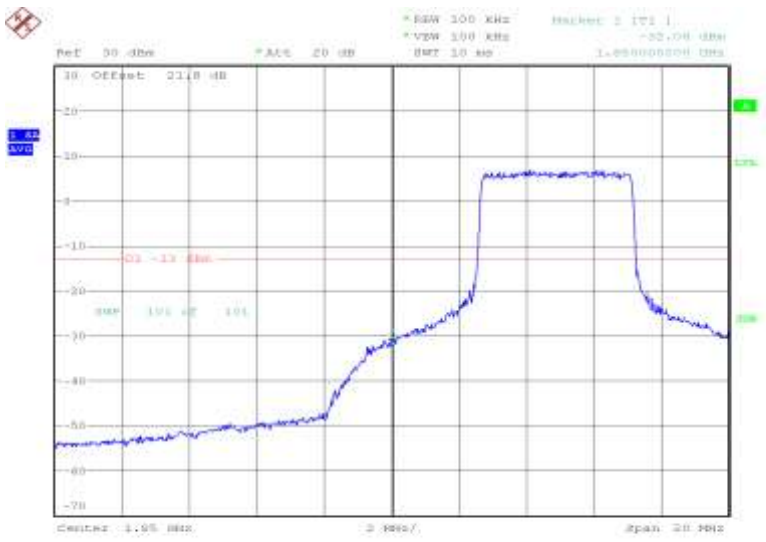
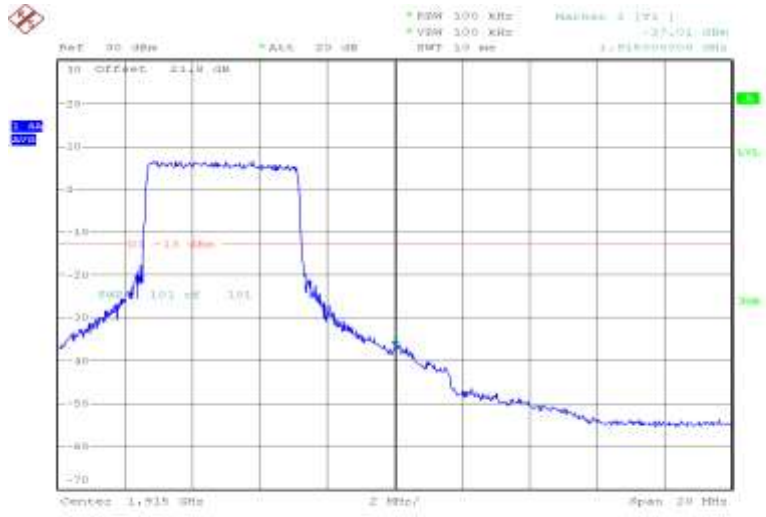
LOW CH, RB25-12



HIGH CH, RB25-12



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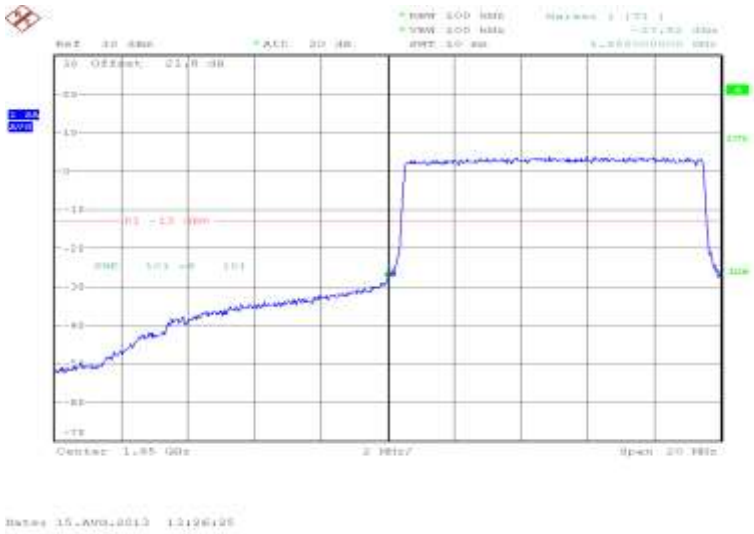
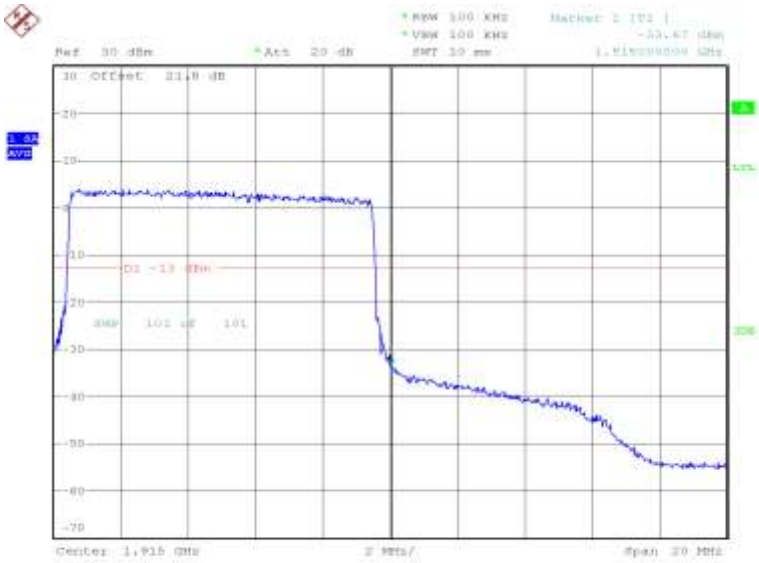
LOW CH, RB50-0



HIGH CH, RB50-0



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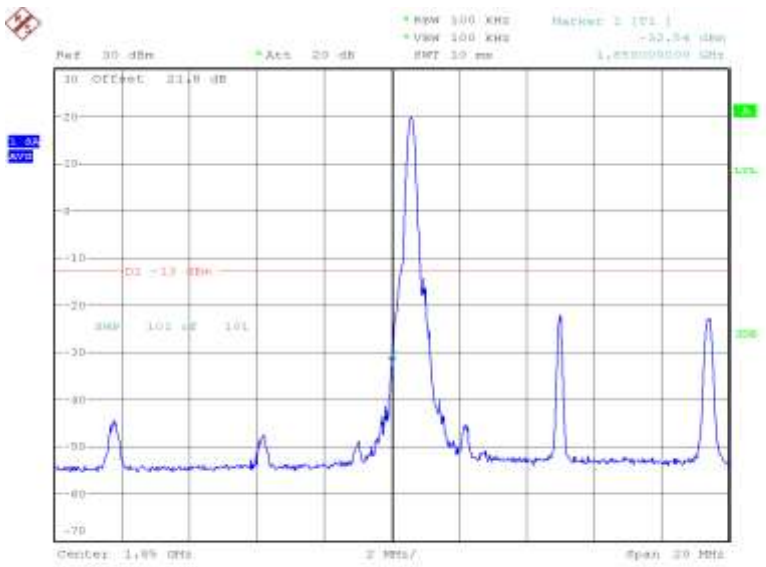
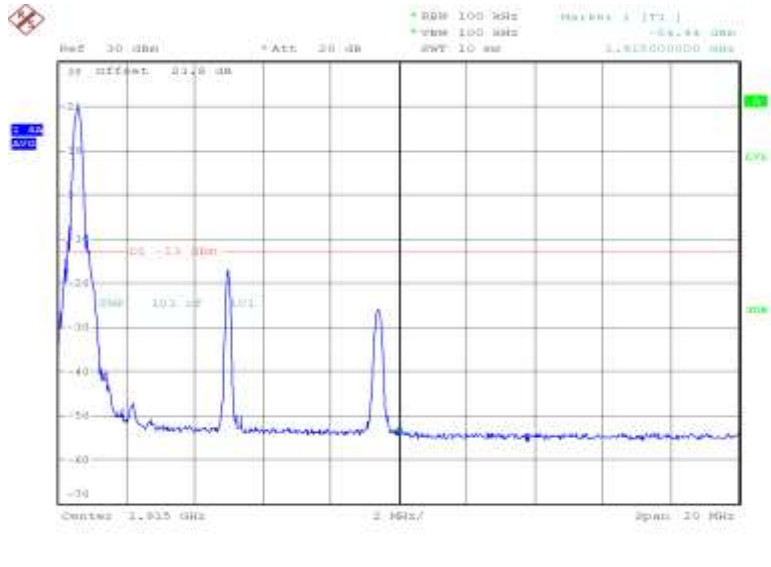
LTE 16QAM Band 25 (10.0 MHz BAND WIDTH)

LOW CH, RB1-0



HIGH CH, RB1-0



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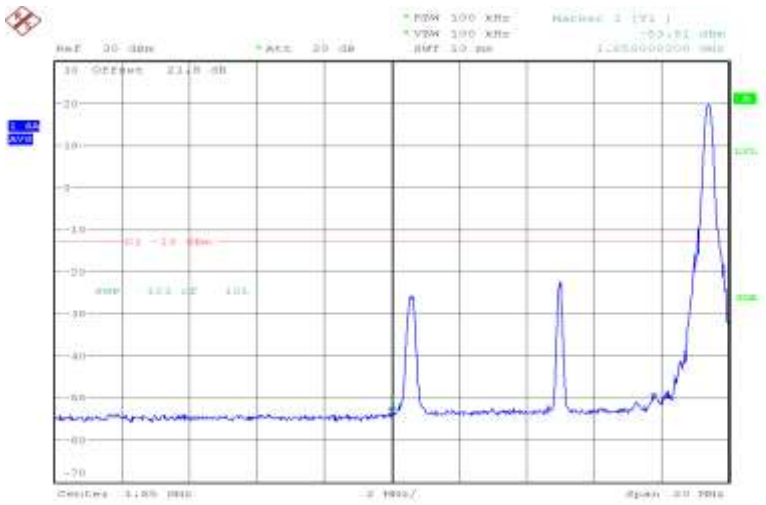
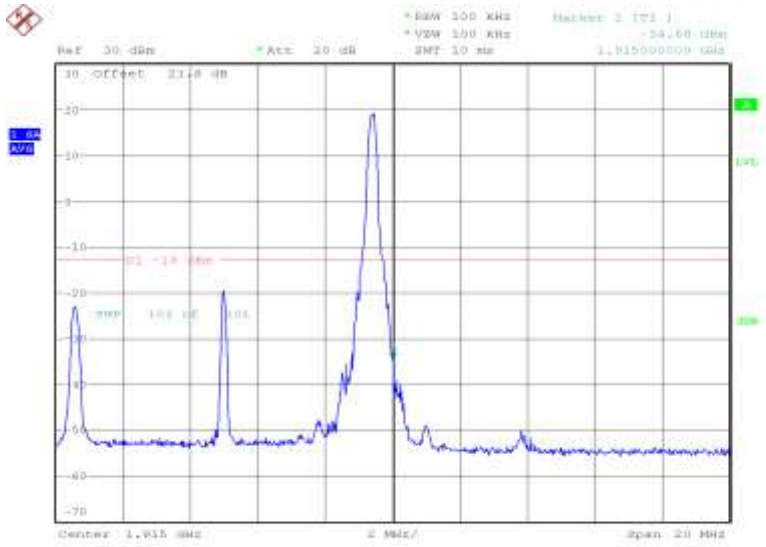
LOW CH, RB1-49



HIGH CH, RB1-49



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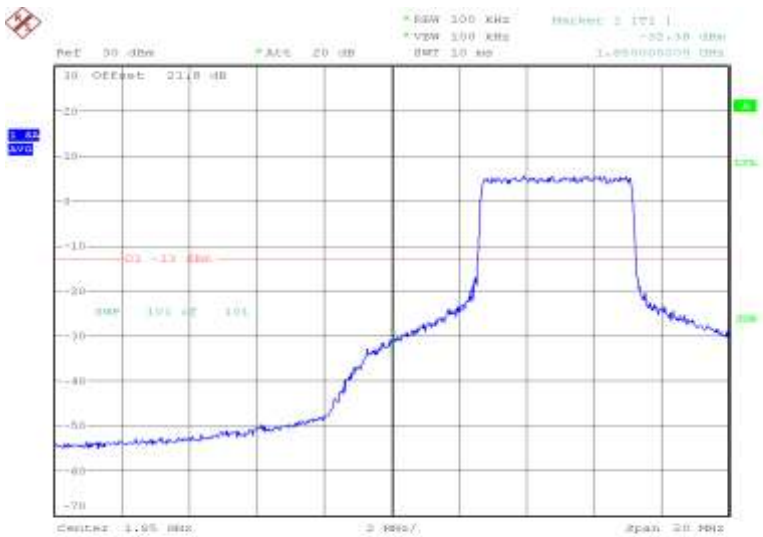
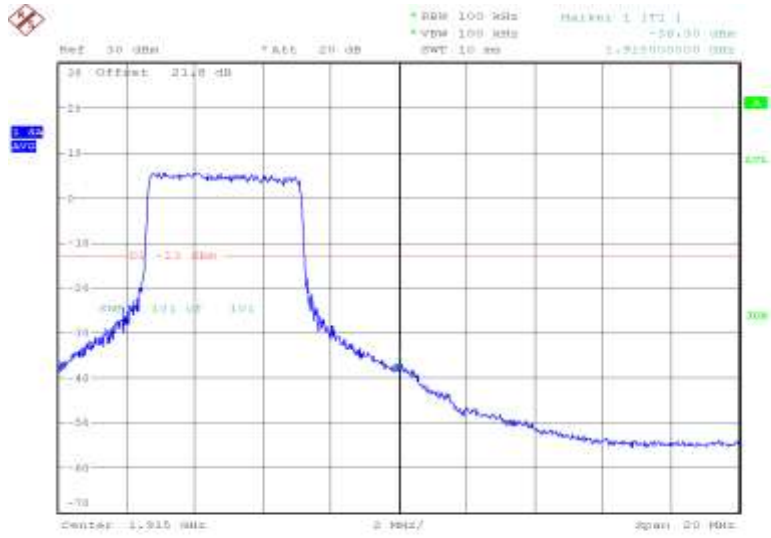
LOW CH, RB25-12



HIGH CH, RB25-12



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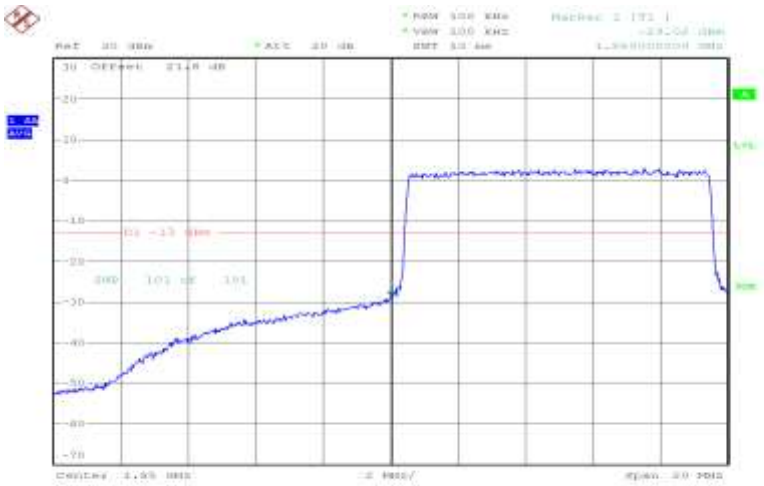
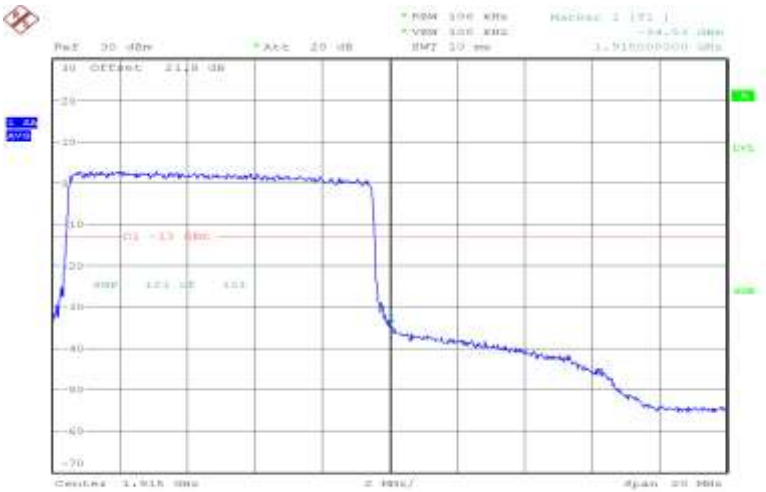
LOW CH, RB50-0



HIGH CH, RB50-0



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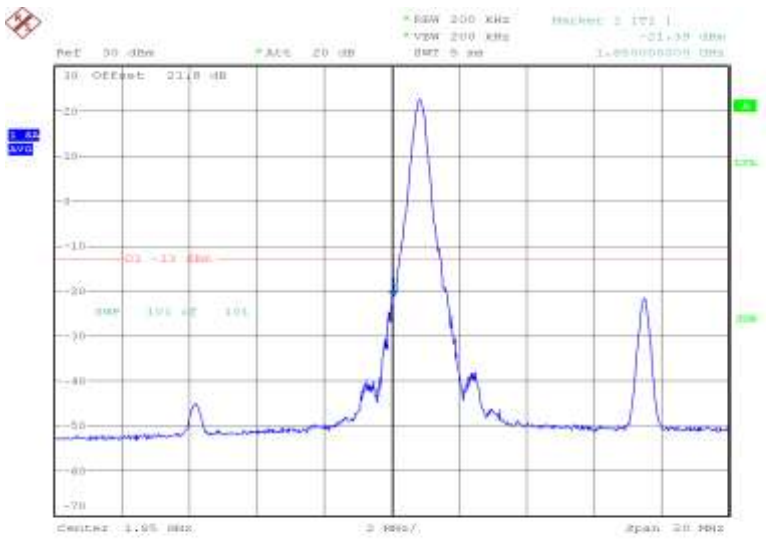
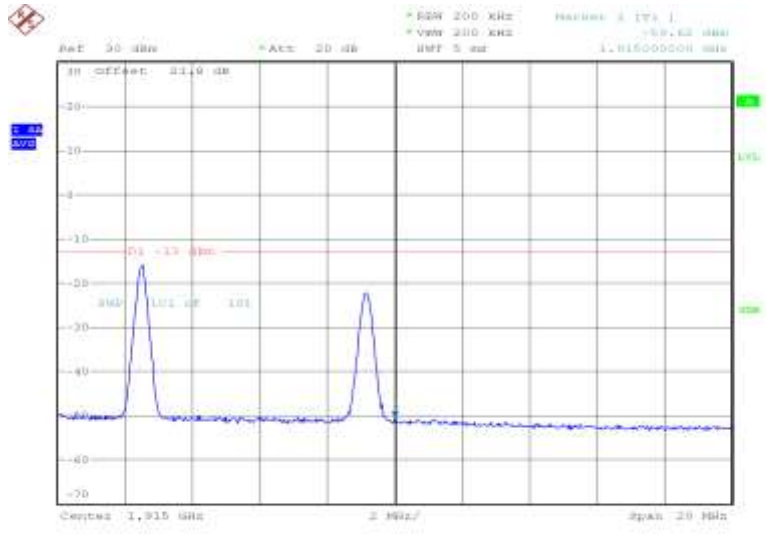
LTE QPSK Band 25 (15.0 MHz BAND WIDTH)

LOW CH, RB1-0



HIGH CH, RB1-0



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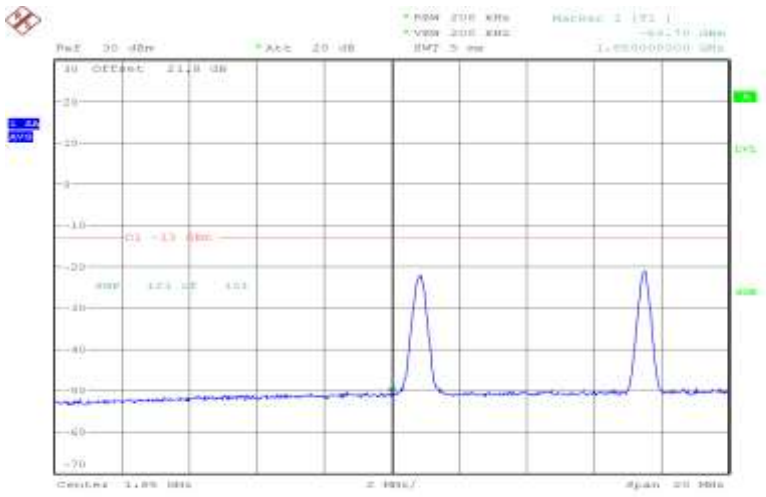
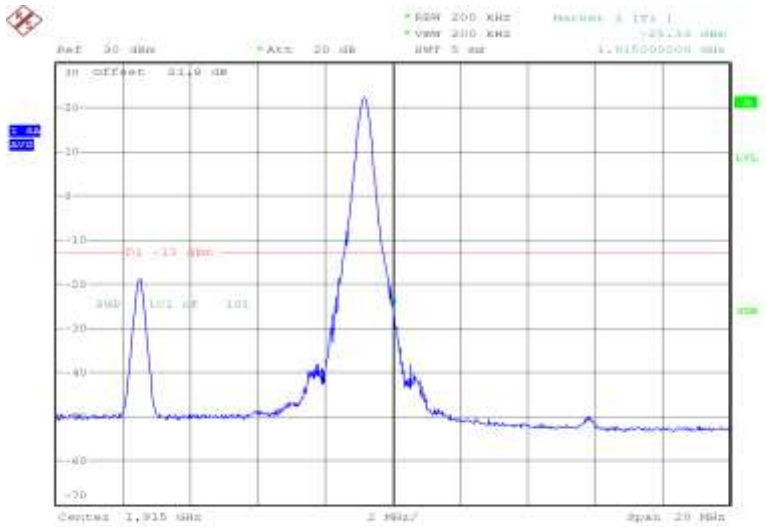
LOW CH, RB1-74



HIGH CH, RB1-74



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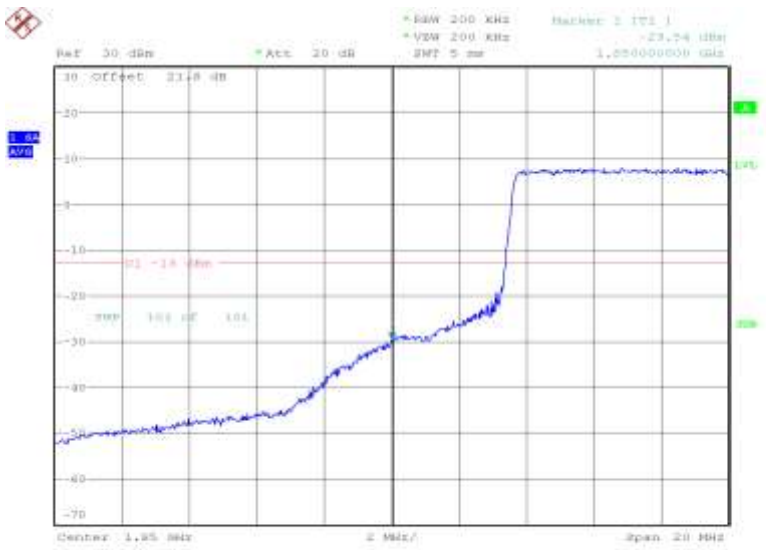
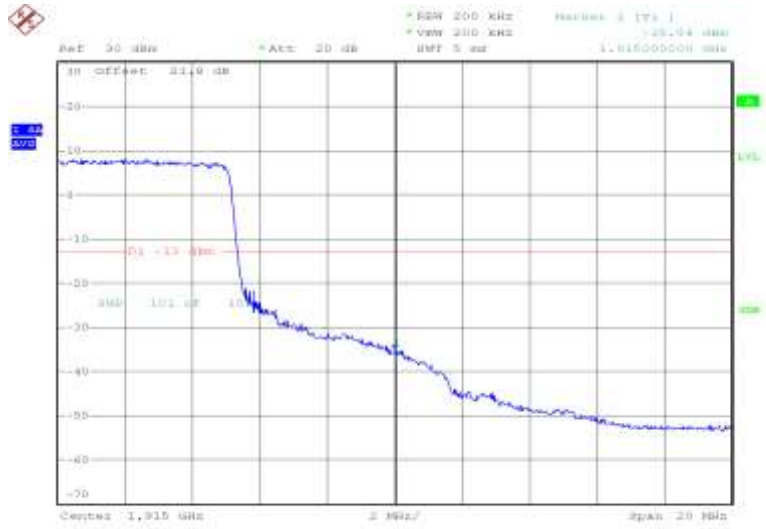
LOW CH, RB36-18



HIGH CH, RB36-18



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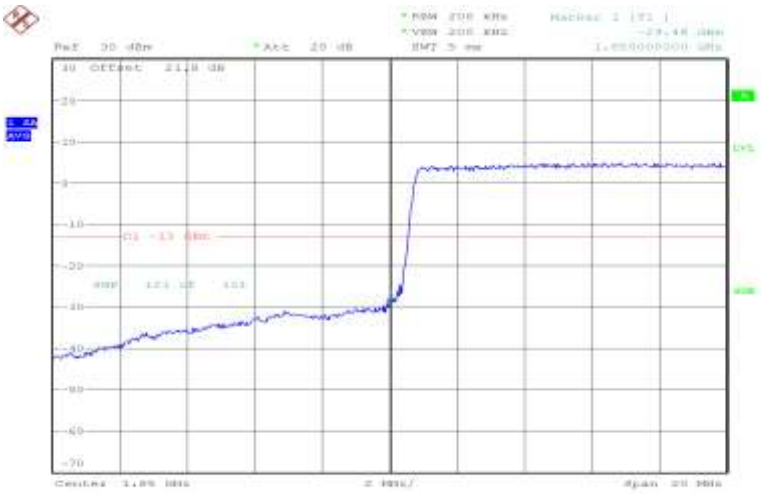
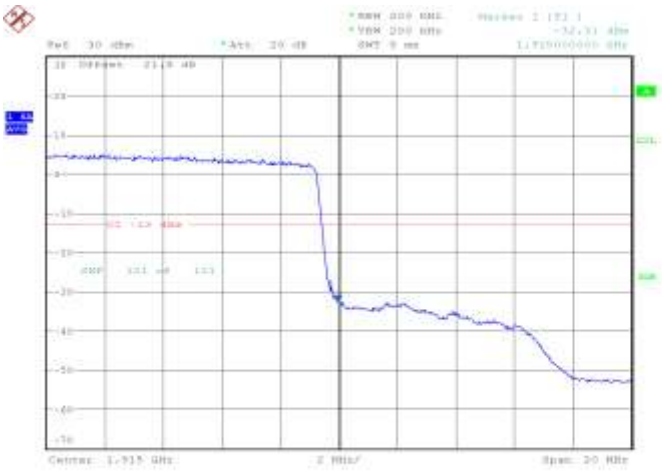
LOW CH, RB75-0



HIGH CH, RB75-0



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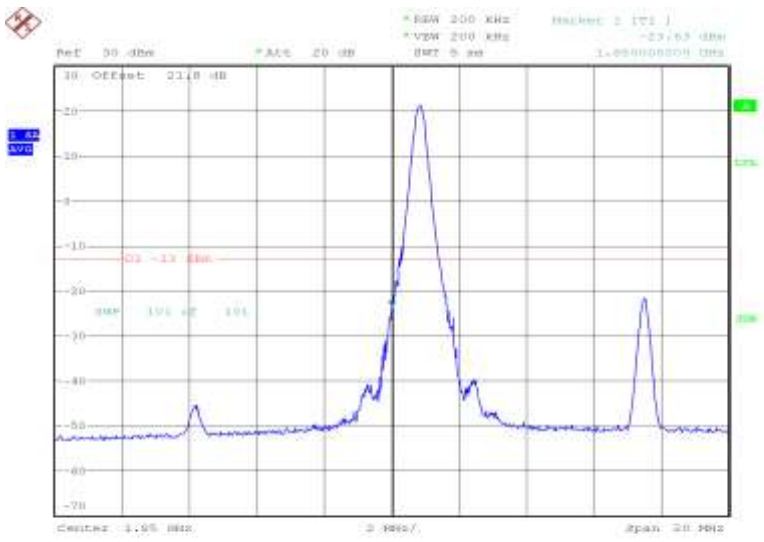
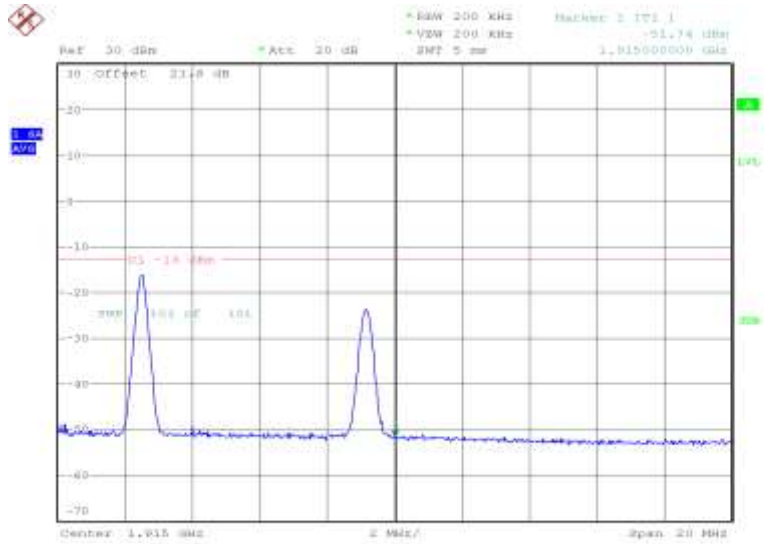
LTE 16QAM Band 25 (15.0 MHz BAND WIDTH)

LOW CH, RB1-0



HIGH CH, RB1-0



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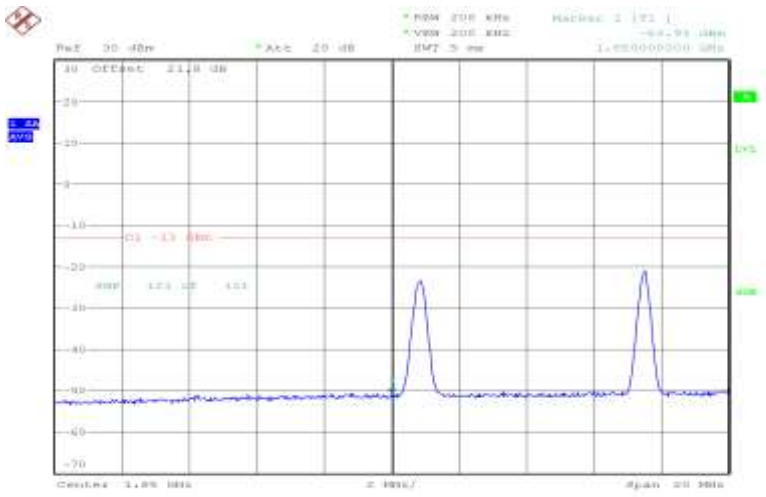
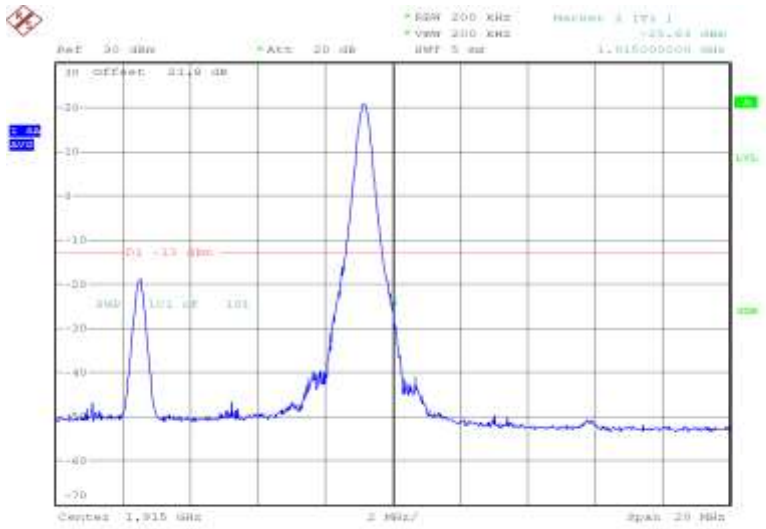
LOW CH, RB1-74



HIGH CH, RB1-74



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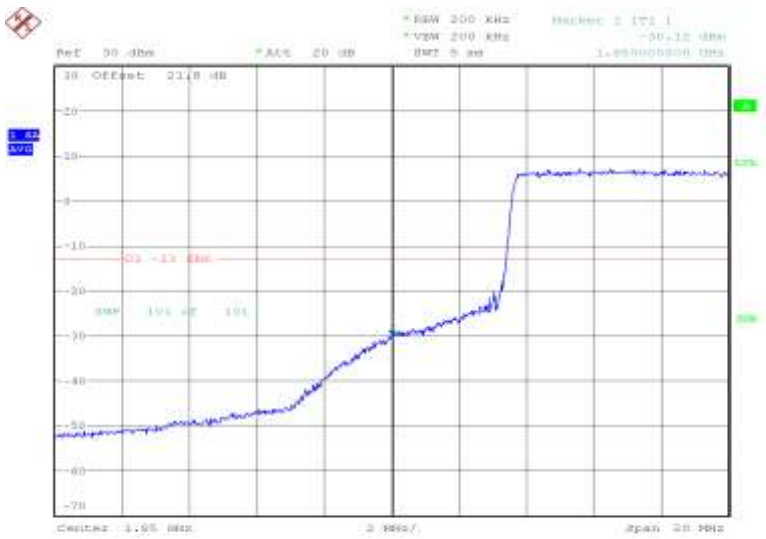
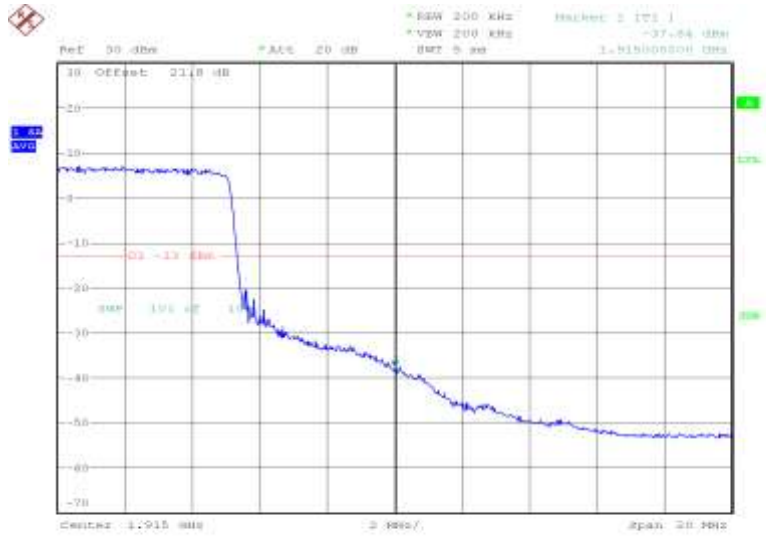
LOW CH, RB36-16



HIGH CH, RB36-16



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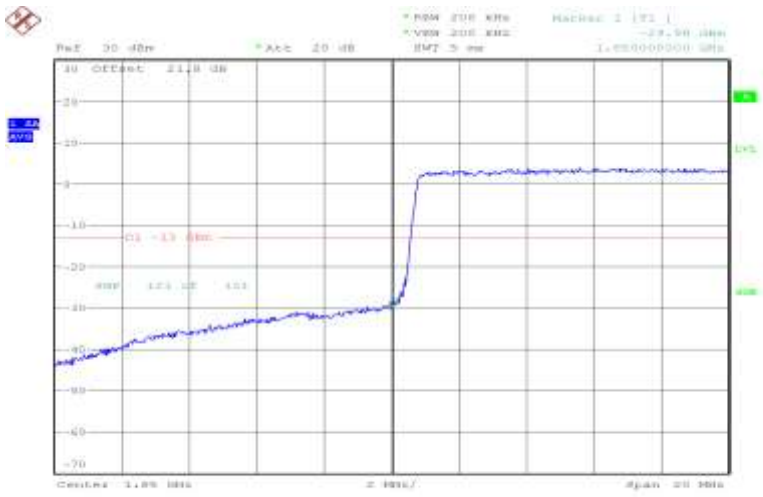
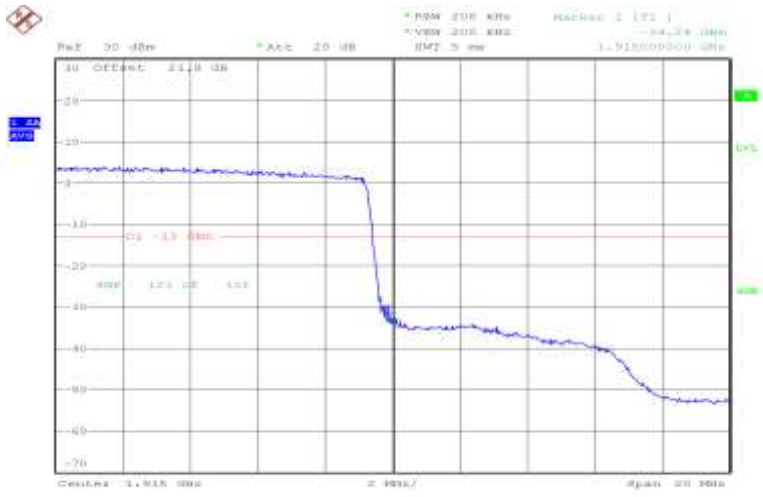
LOW CH, RB75-0



HIGH CH, RB75-0



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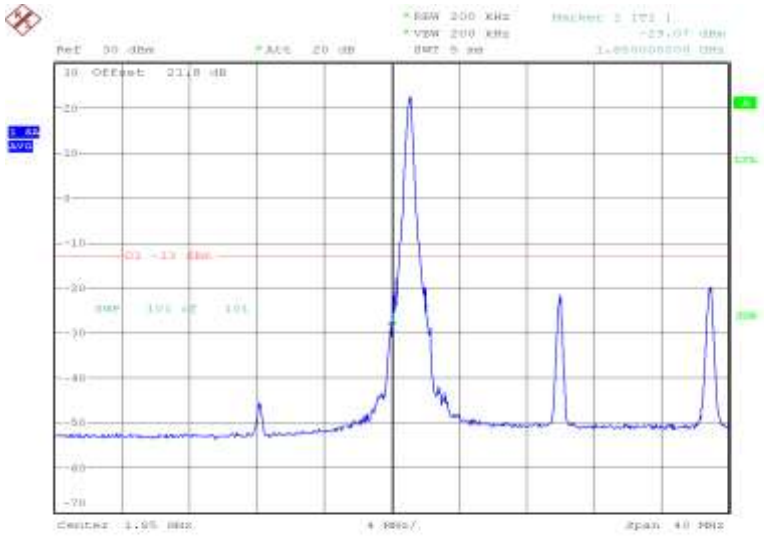
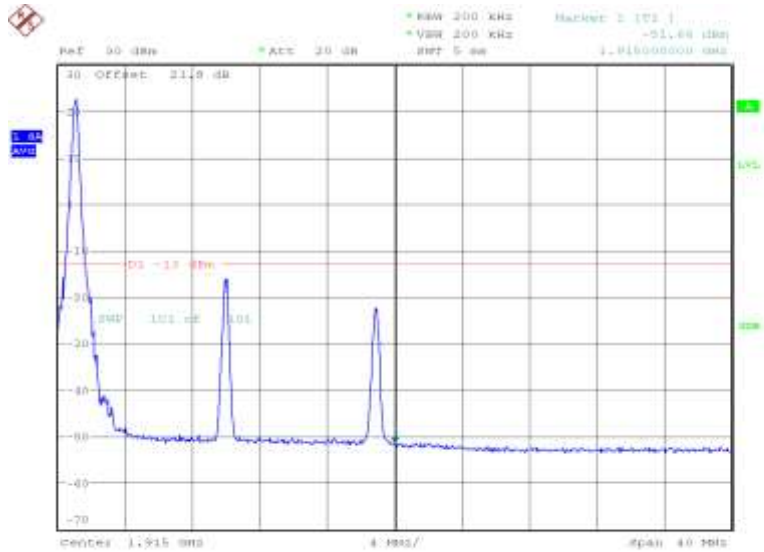
LTE QPSK Band 25 (20.0 MHz BAND WIDTH)

LOW CH, RB1-0



HIGH CH, RB1-0



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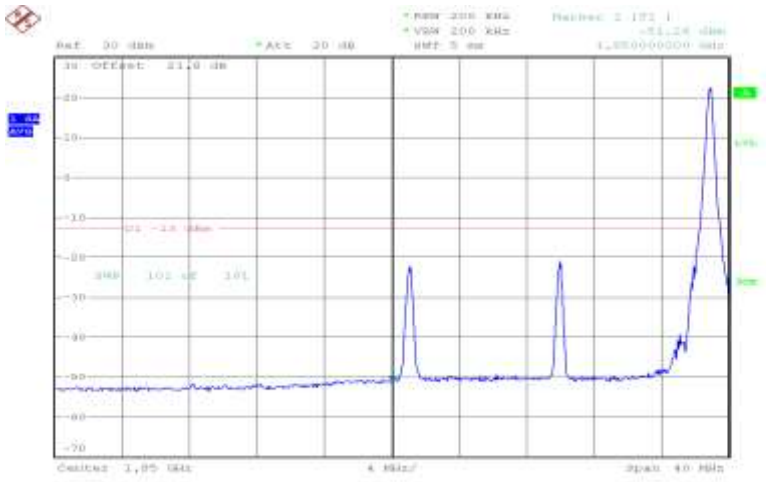
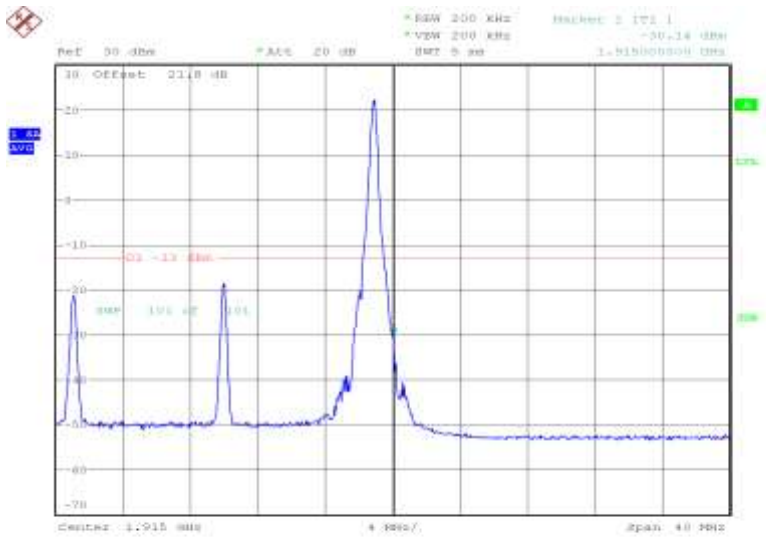
LOW CH, RB1-99



HIGH CH, RB1-99



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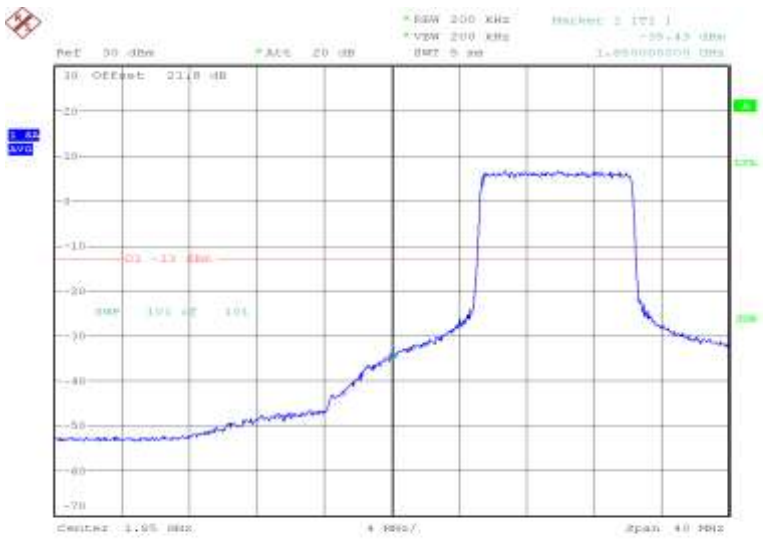
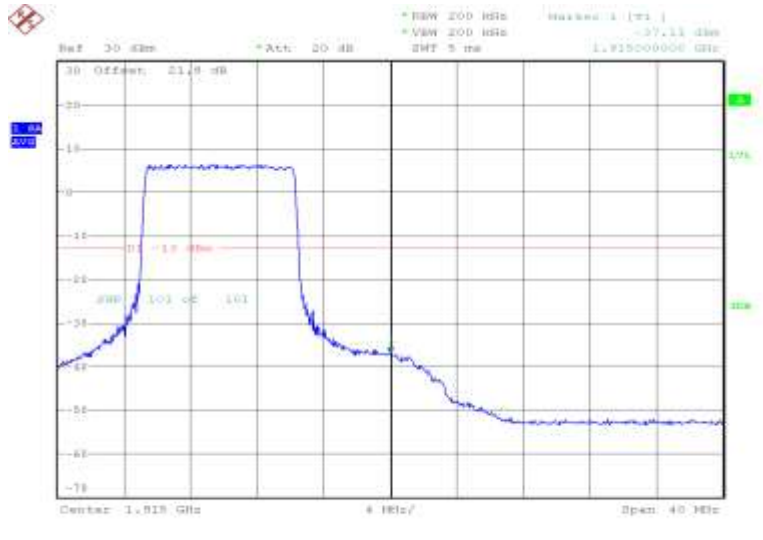
LOW CH, RB50-24



HIGH CH, RB50-24



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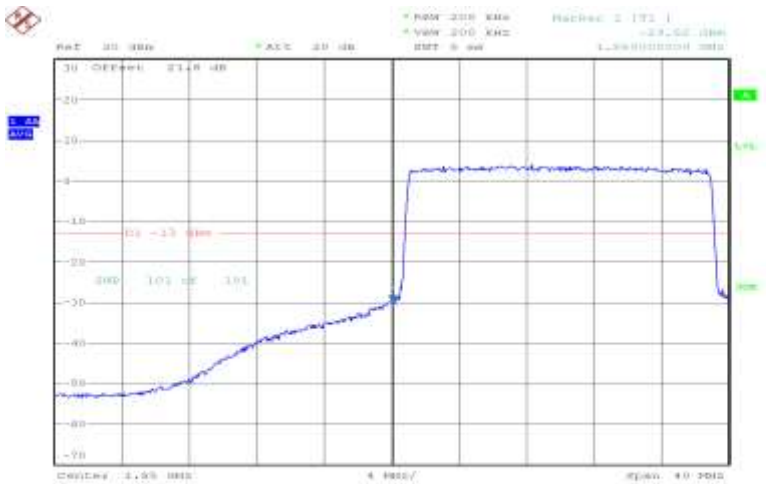
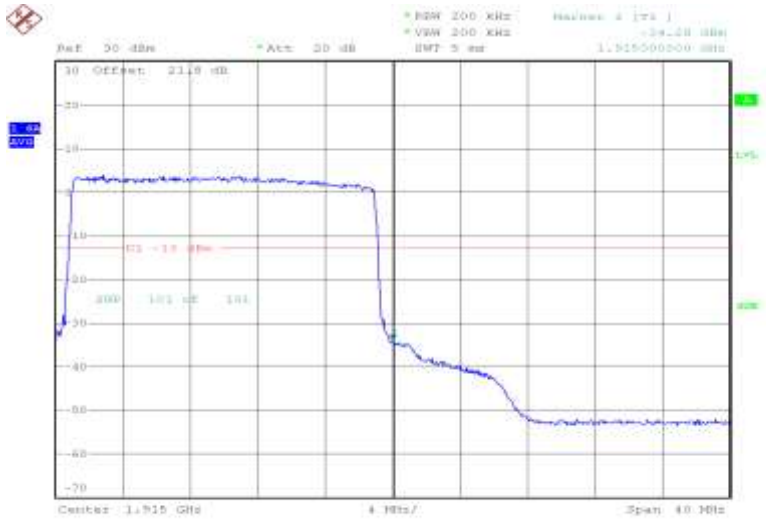
LOW CH, RB100-0



HIGH CH, RB100-0



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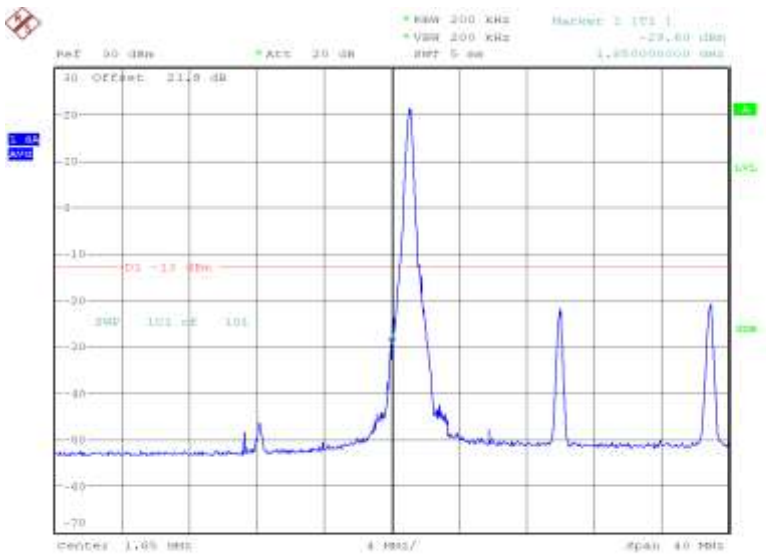
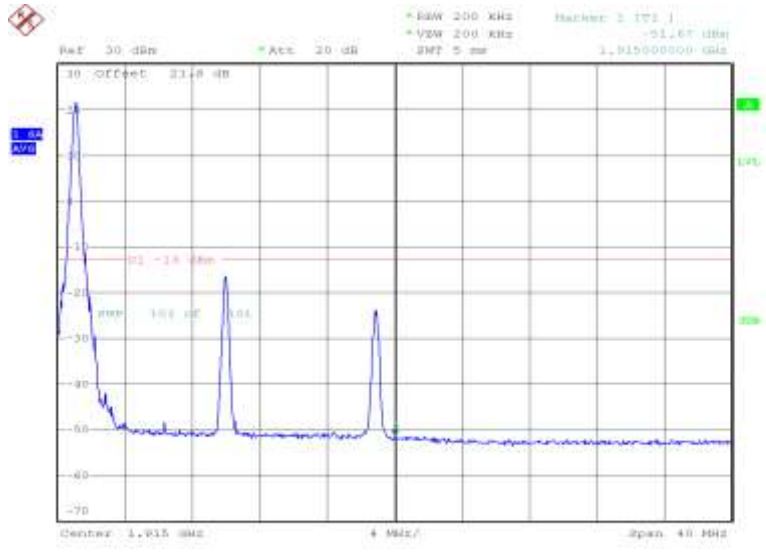
LTE 16QAM Band 25 (20.0 MHz BAND WIDTH)

LOW CH, RB1-0



HIGH CH, RB1-0



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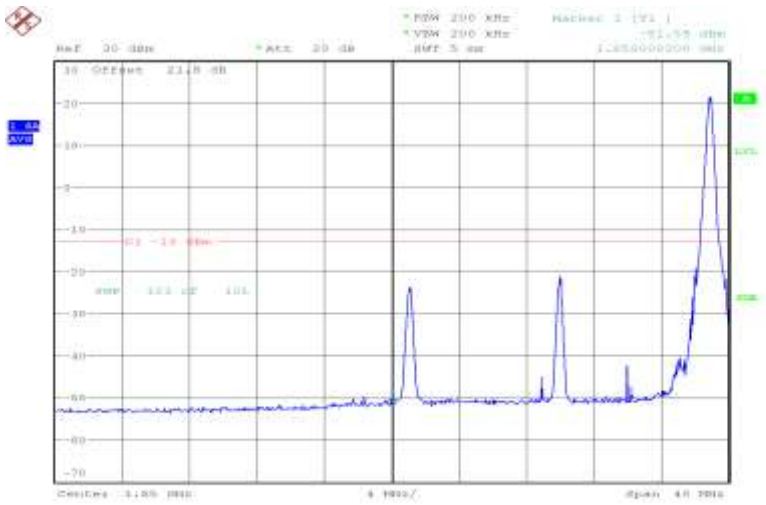
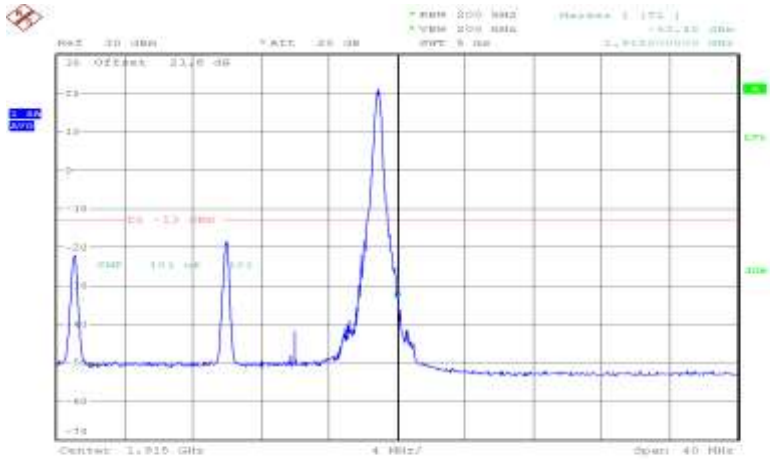
LOW CH, RB1-99



HIGH CH, RB1-99



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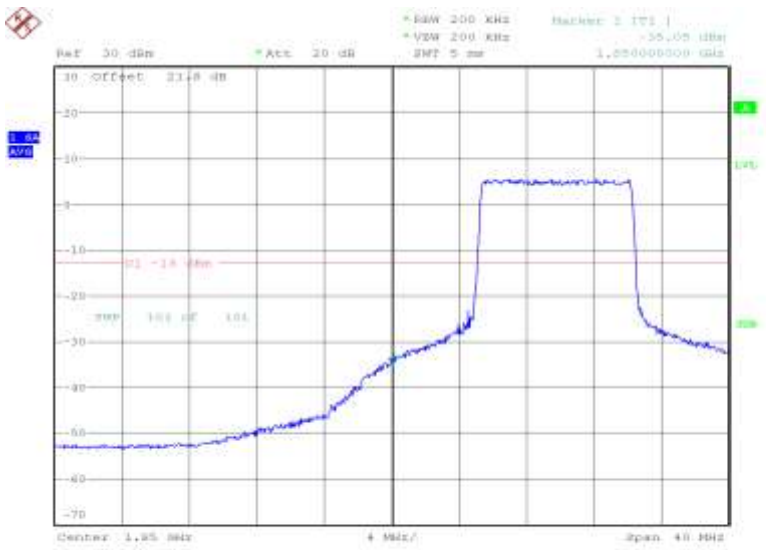
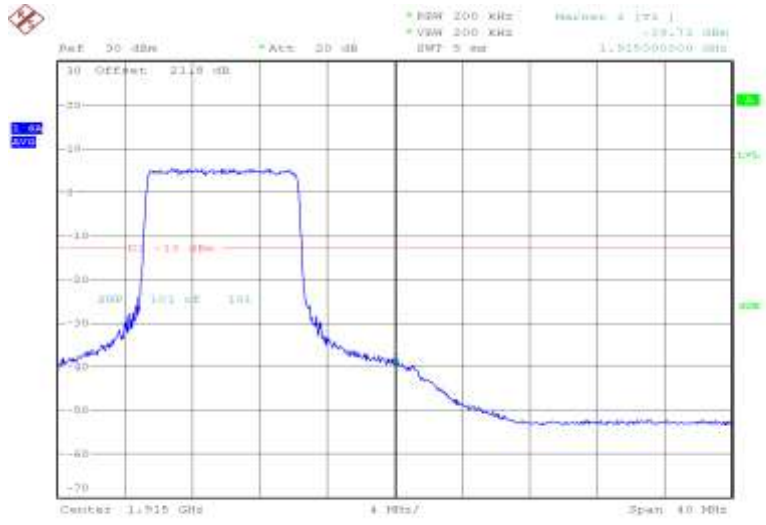
LOW CH, RB50-24



HIGH CH, RB50-24



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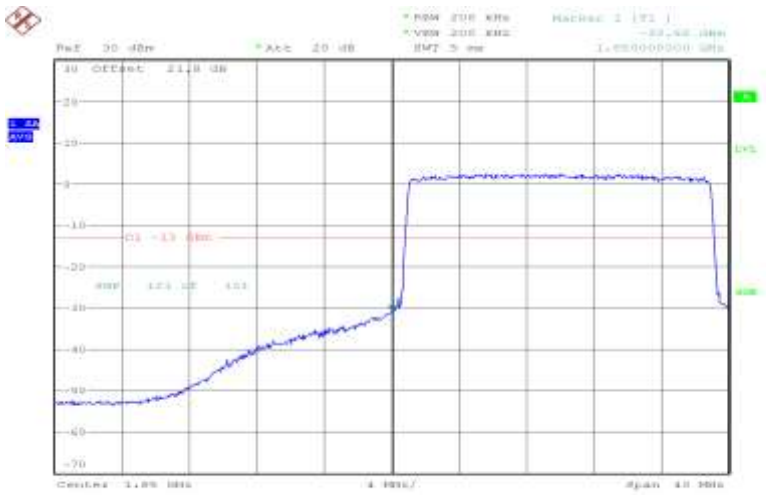
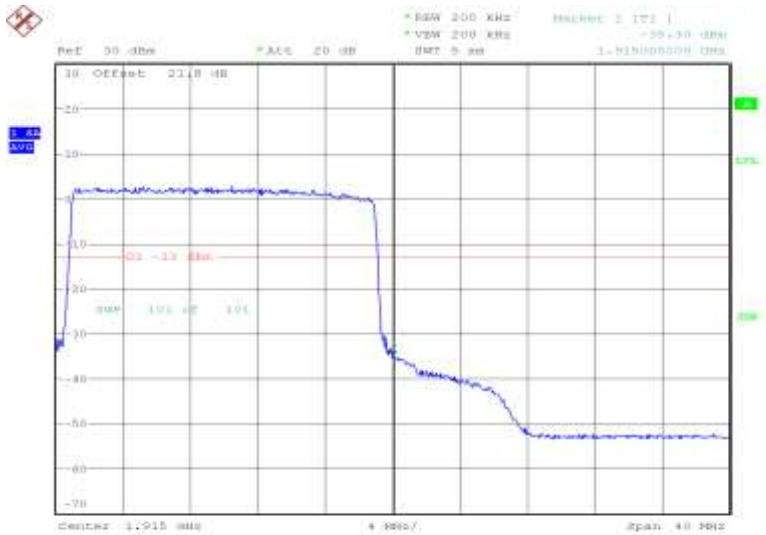
LOW CH, RB100-0



HIGH CH, RB100-0



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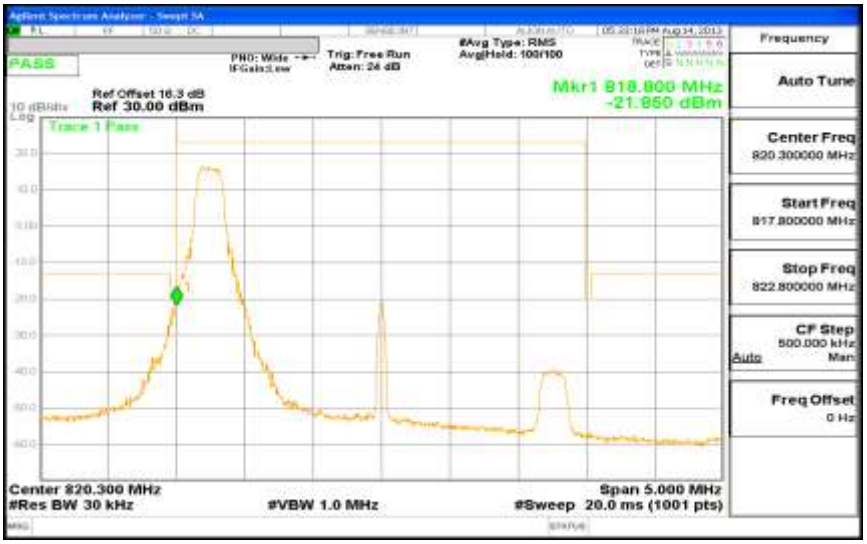
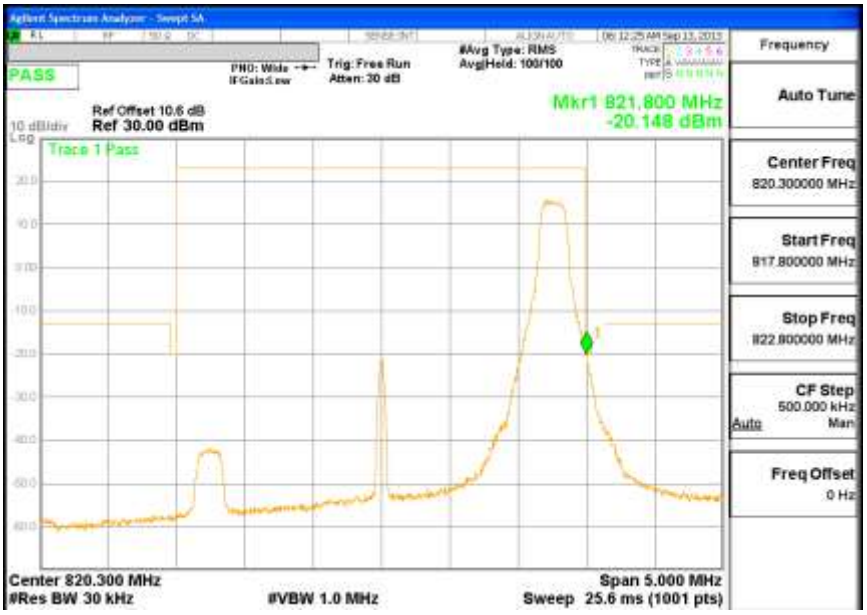
8.2.7. LTE BAND 26 (PART 90 EMISSION MASK)

820.3MHz at 3.0MHz BW

QPSK, RB1-0



QPSK, RB1-14



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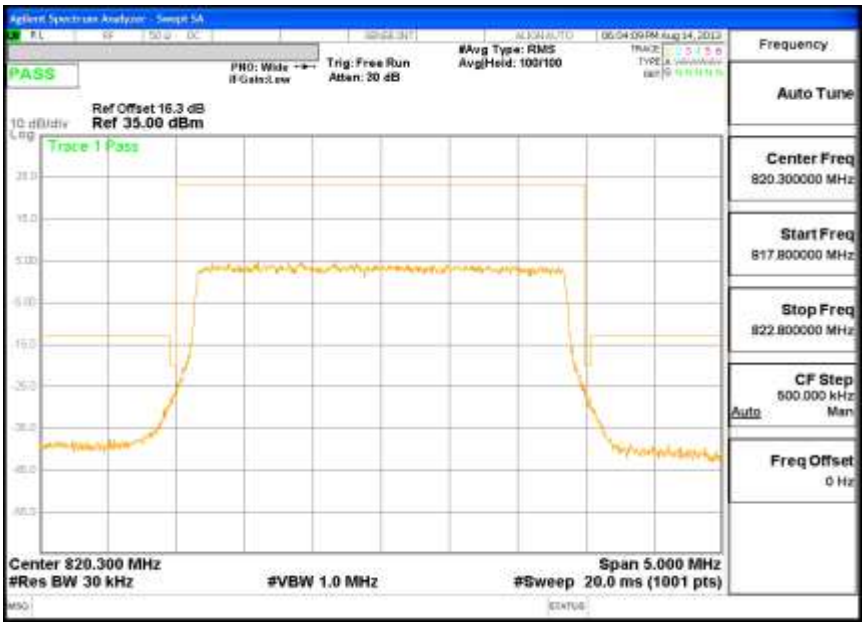
QPSK, RB8-4

QPSK, RB15-0



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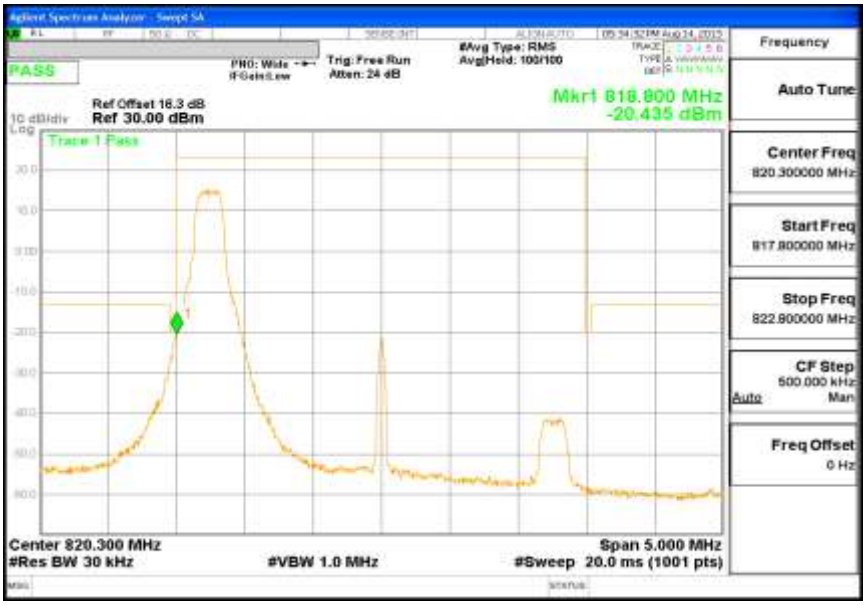
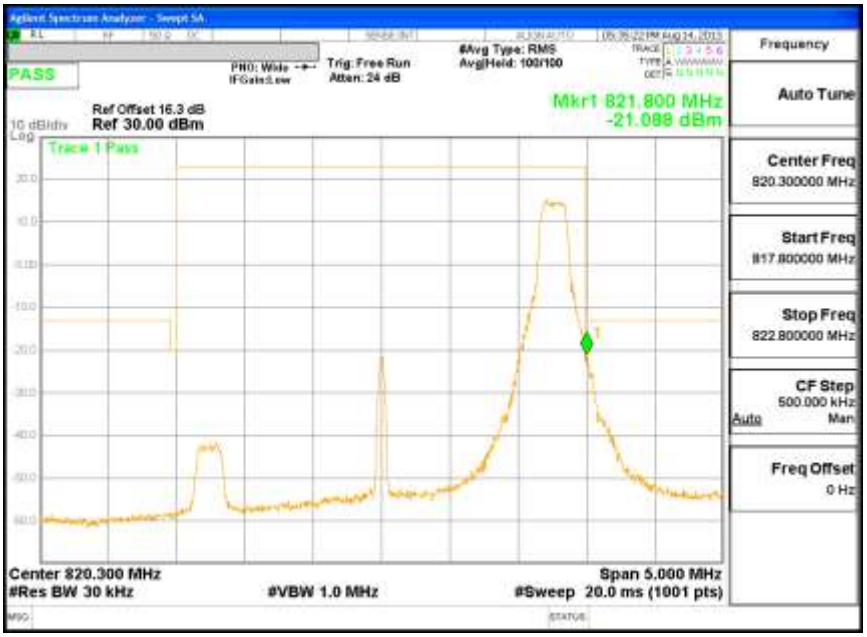
16QAM, RB1-0



16QAM, RB1-14



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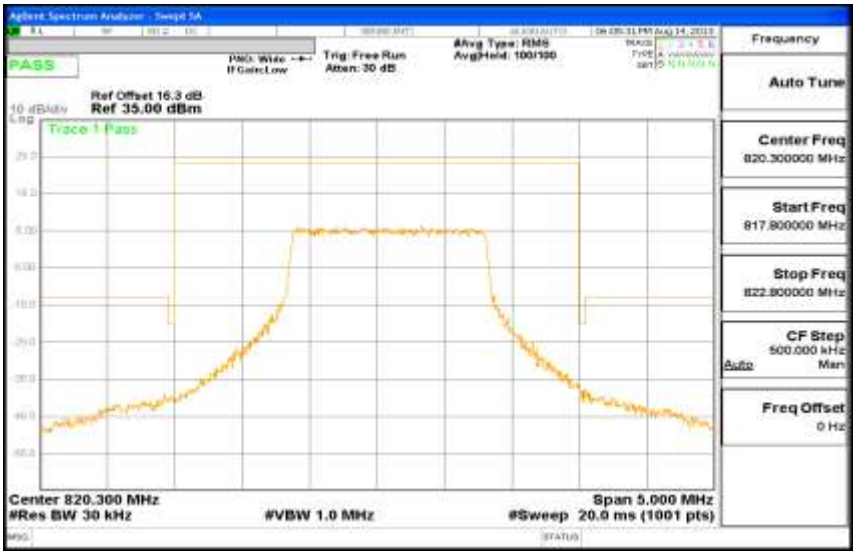
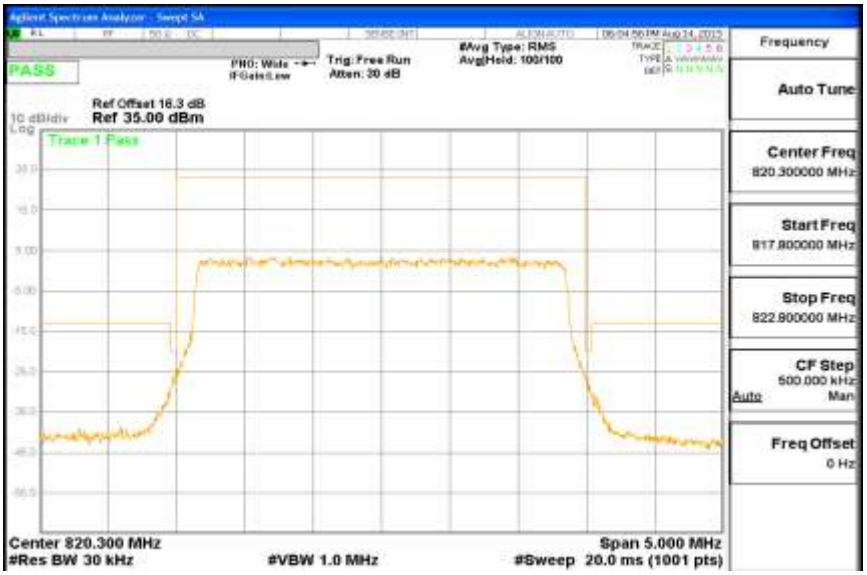
16QAM, RB8-4



16QAM, RB15-0



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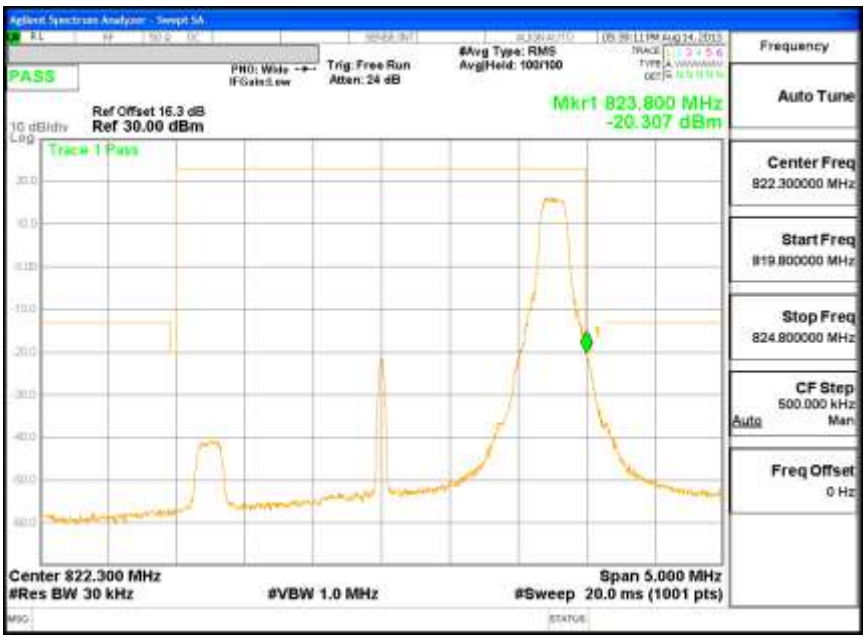
822.3MHz at 3.0MHz BW

QPSK, RB1-0

QPSK, RB1-14



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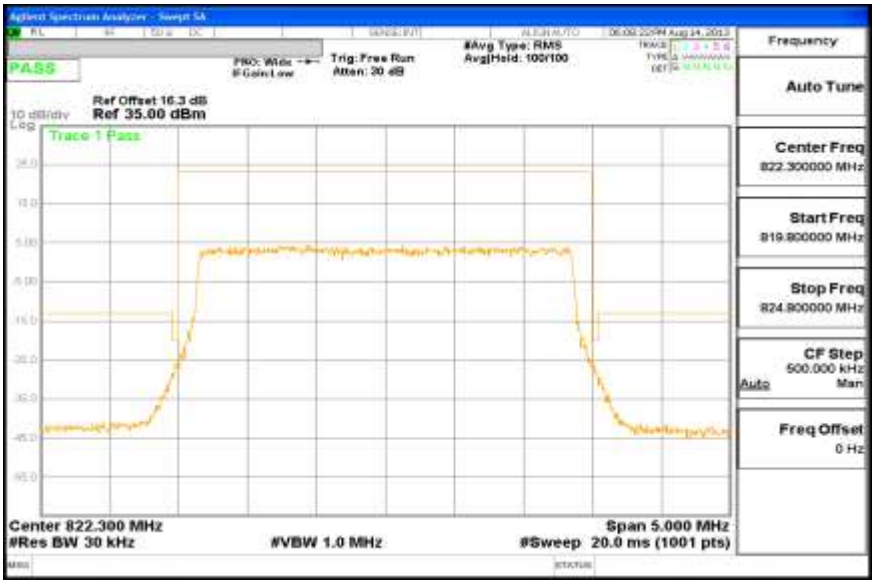
QPSK, RB8-4

QPSK, RB15-0



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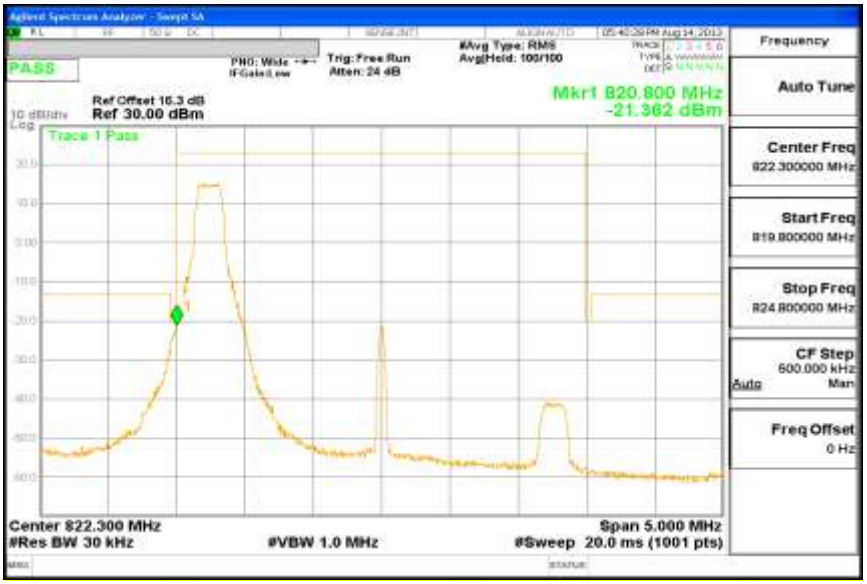
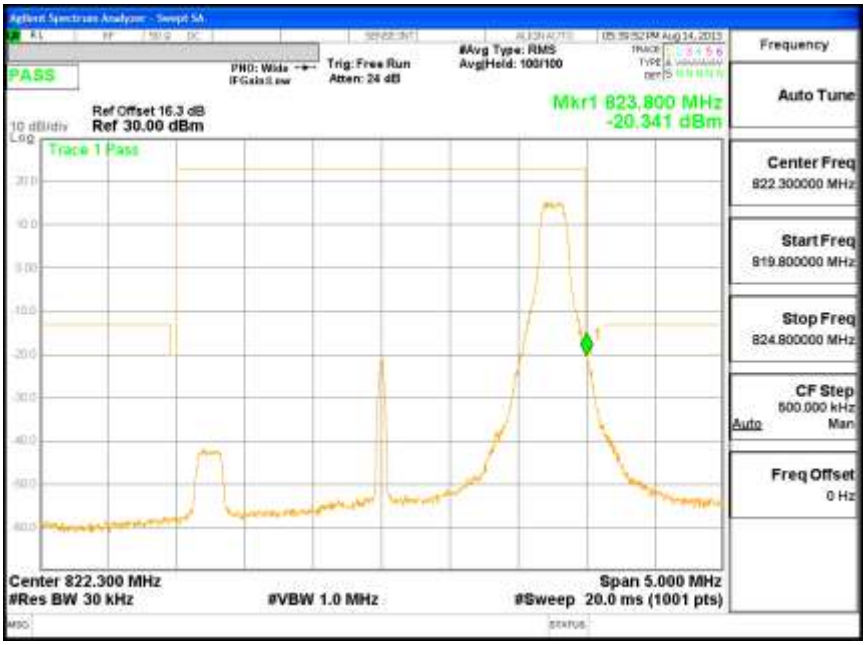
16QAM, RB1-0



16QAM, RB1-14



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16QAM, RB8-4

16QAM, RB15-0

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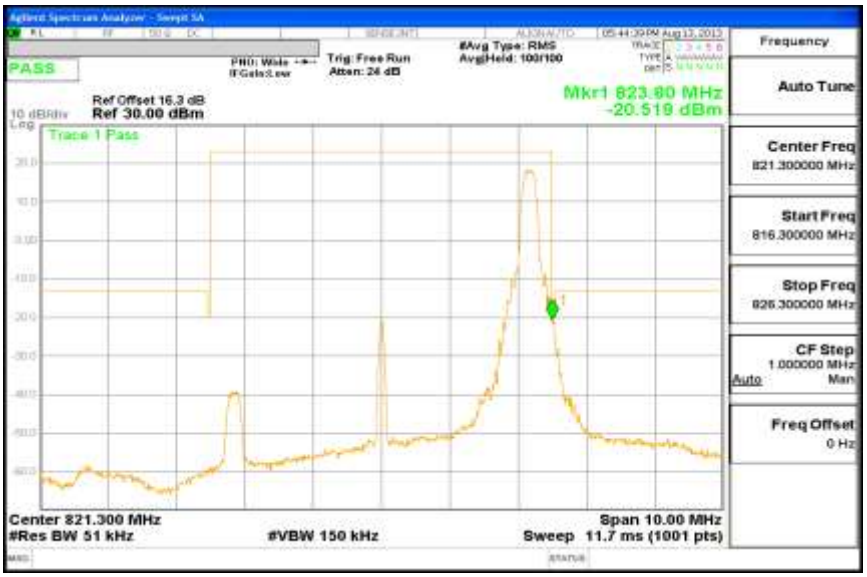
821.3MHz at 5.0MHz BW

QPSK, RB1-0

QPSK, RB1-24



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QPSK, RB12-6

QPSK, RB25-0

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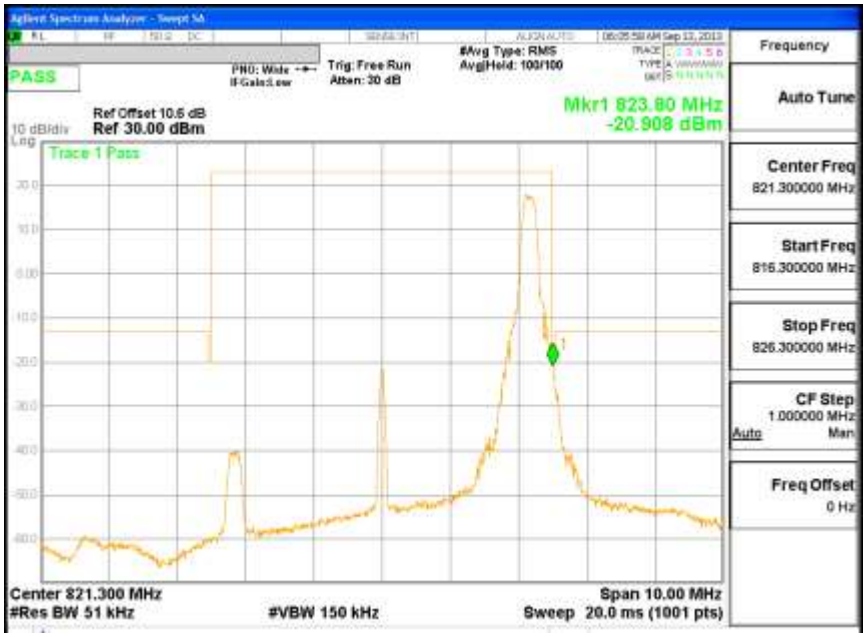
16QAM, RB1-0

16QAM, RB1-24



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16QAM, RB12-6

16QAM, RB25-0

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8.3. OUT OF BAND EMISSIONS

RULE PART(S)

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

LIMITS

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

TEST PROCEDURE

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

For each out of band emissions measurement:

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

MODES TESTED

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

RESULTS

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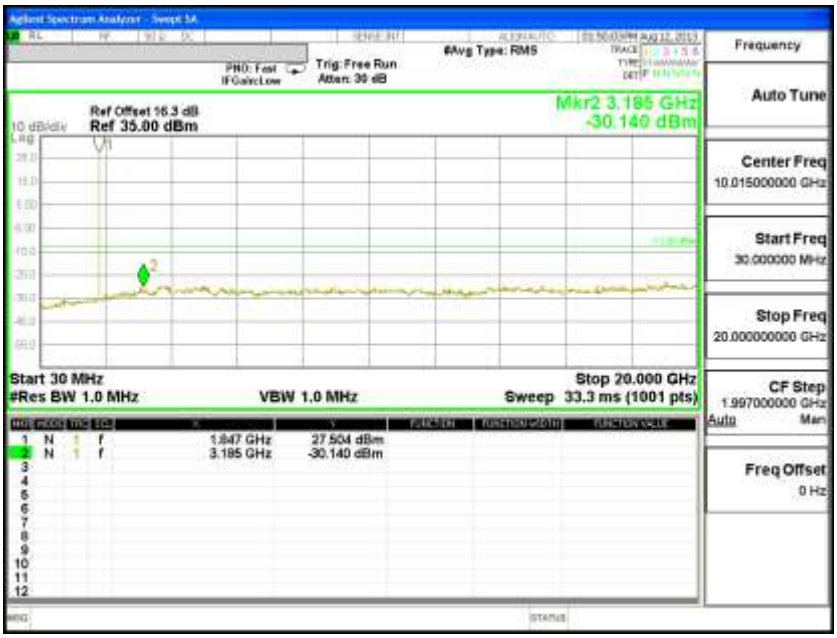
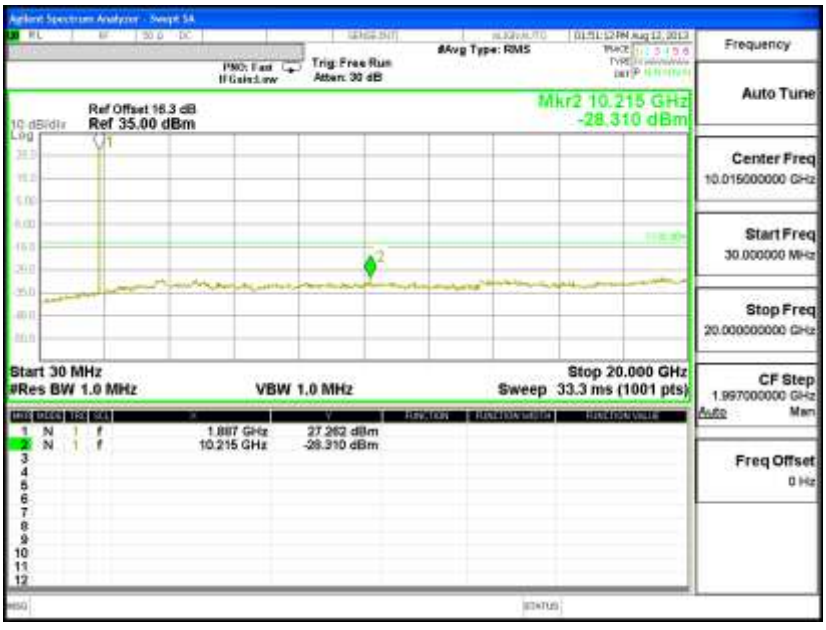
8.3.1. LTE BAND 2

LTE QPSK, 1.4 MHz BAND WIDTH

LOW, RB1-0, 30 TO 20000 MHz



MID, RB1-0, 30 TO 20000 MHz



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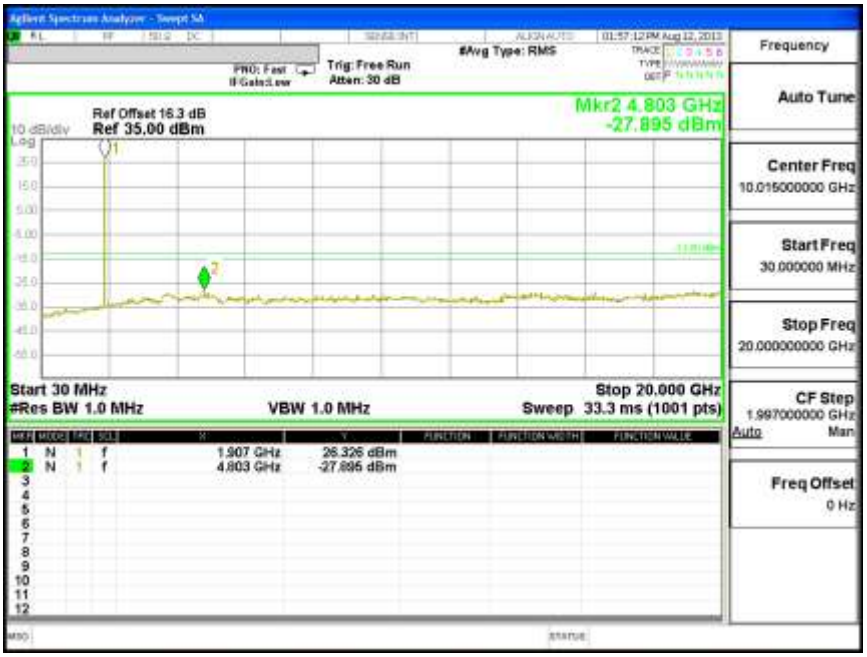
HIGH, RB1-0, 30 TO 20000 MHz



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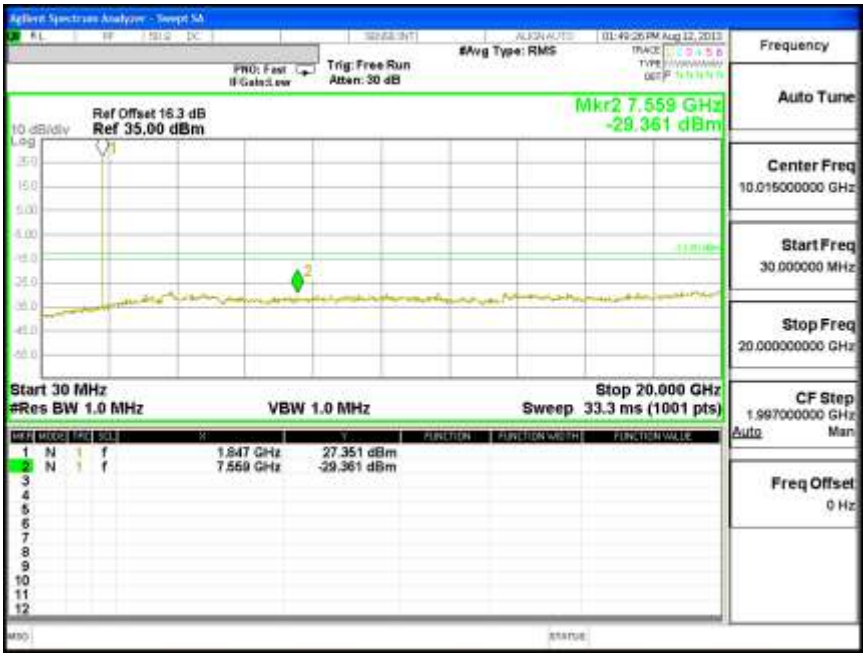
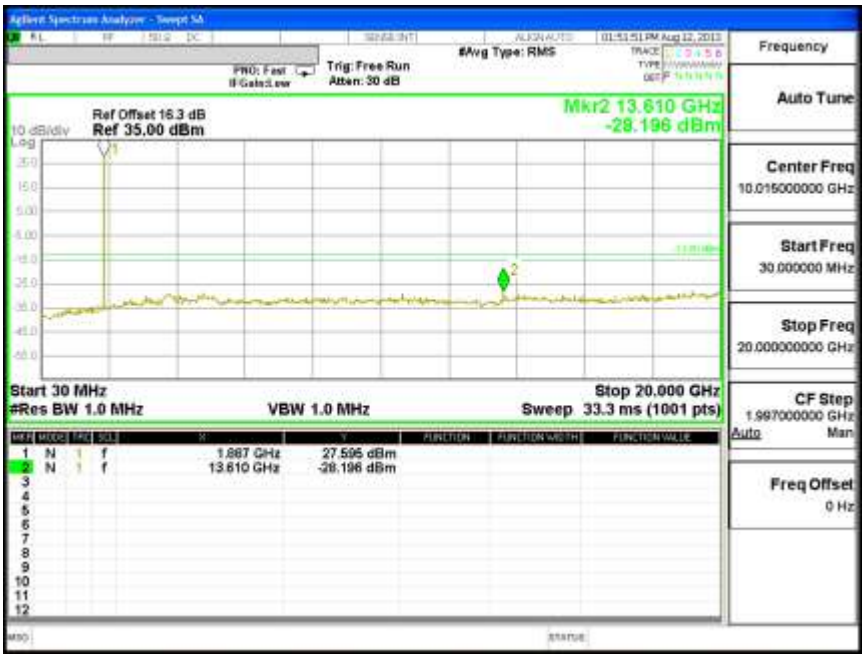
LTE 16QAM

LOW, RB1-0, 30 TO 20000 MHz



MID, RB1-0, 30 TO 20000 MHz



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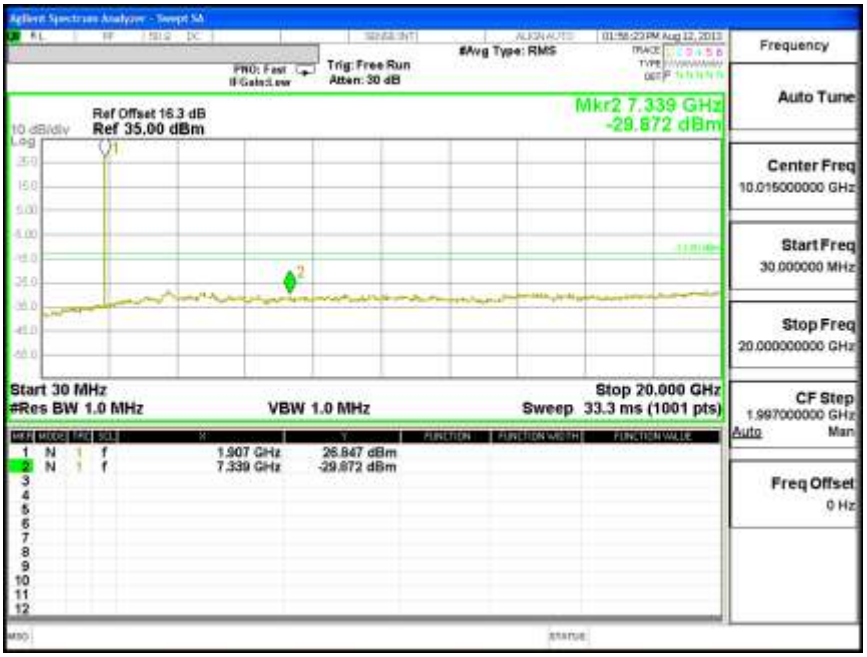
HIGH, RB1-0, 30 TO 20000 MHz



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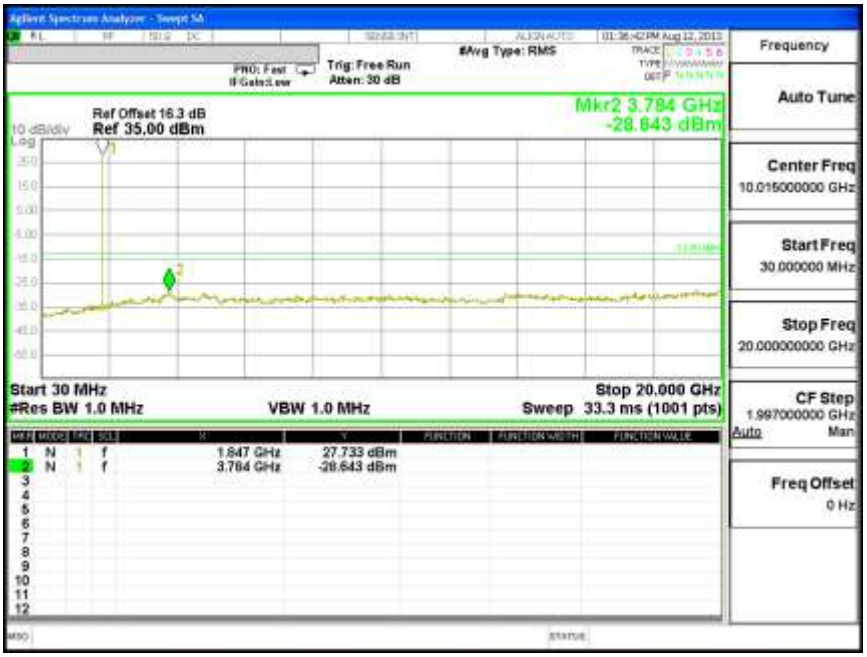
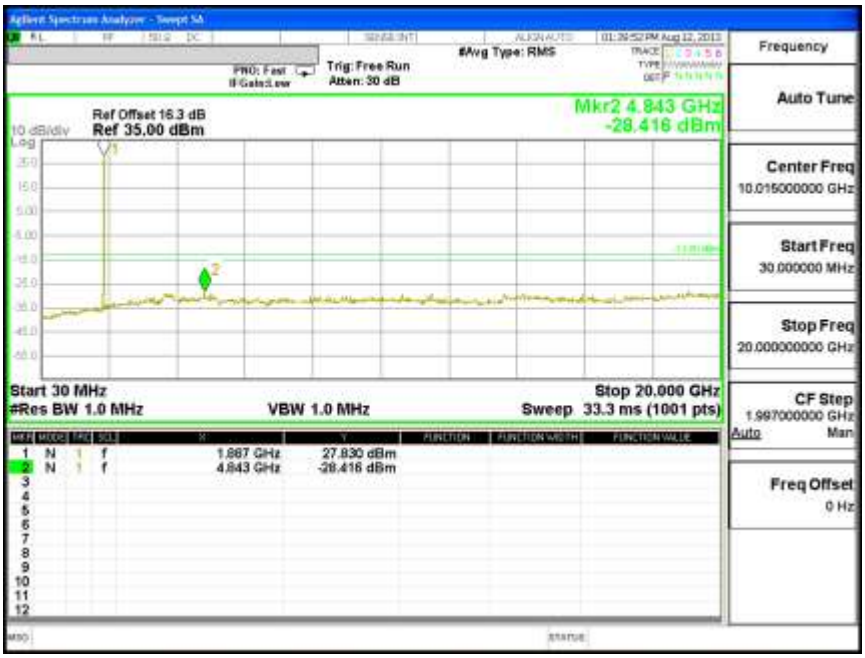
LTE QPSK, 3.0 MHz BAND WIDTH

LOW, RB1-0, 30 TO 20000 MHz



MID, RB1-0, 30 TO 20000 MHz



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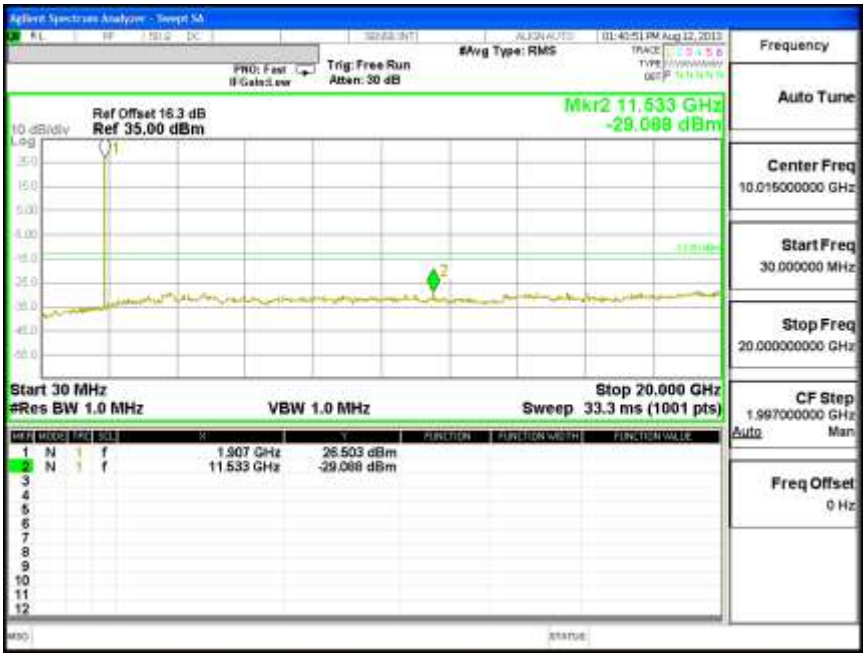
HIGH, RB1-0, 30 TO 20000 MHz



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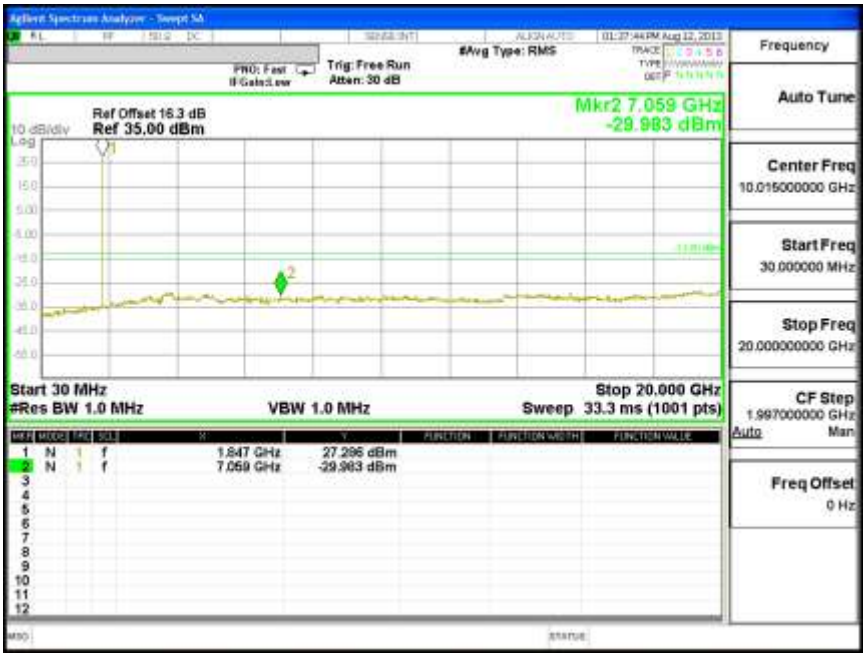
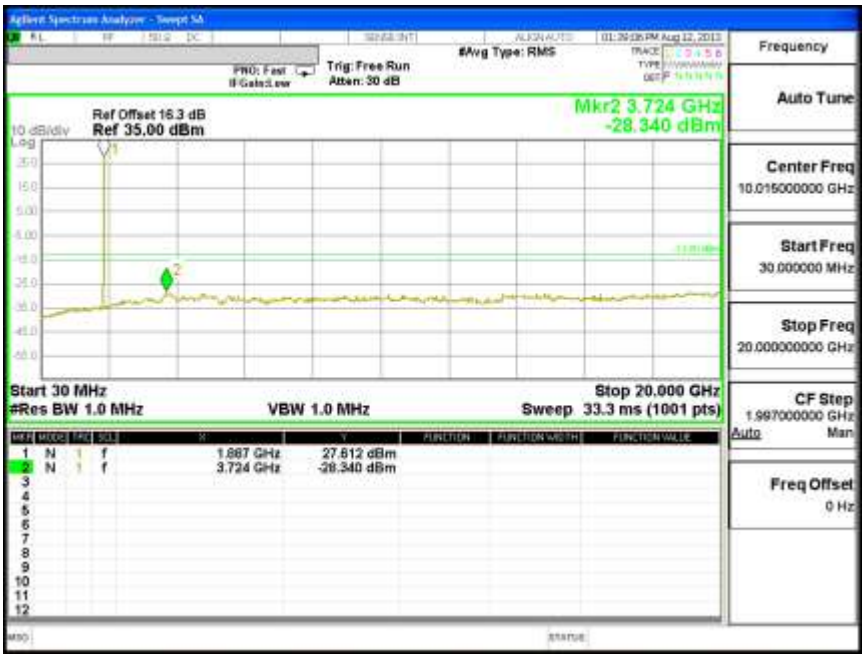
LTE 16QAM

LOW, RB1-0, 30 TO 20000 MHz



MID, RB1-0, 30 TO 20000 MHz



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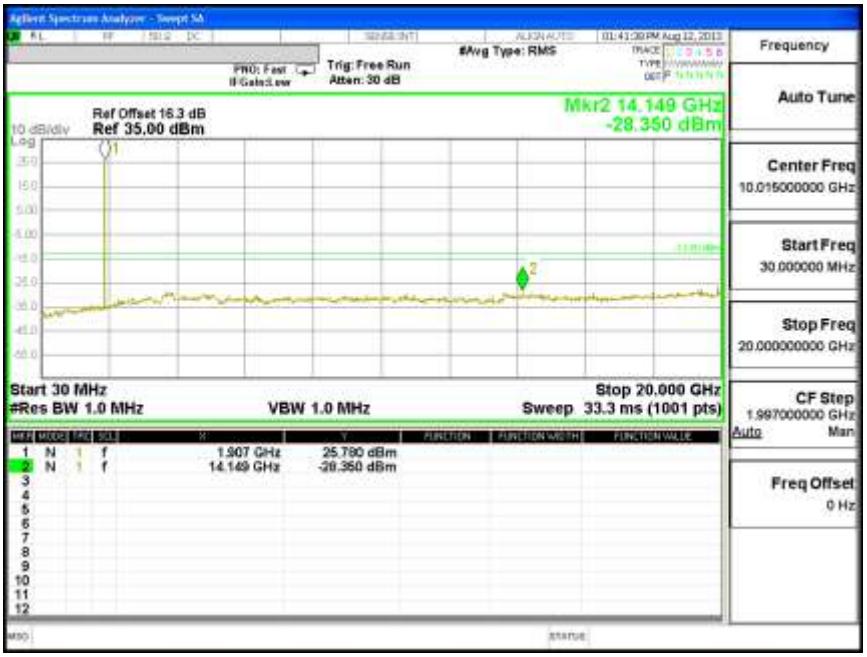
HIGH, RB1-0, 30 TO 20000 MHz



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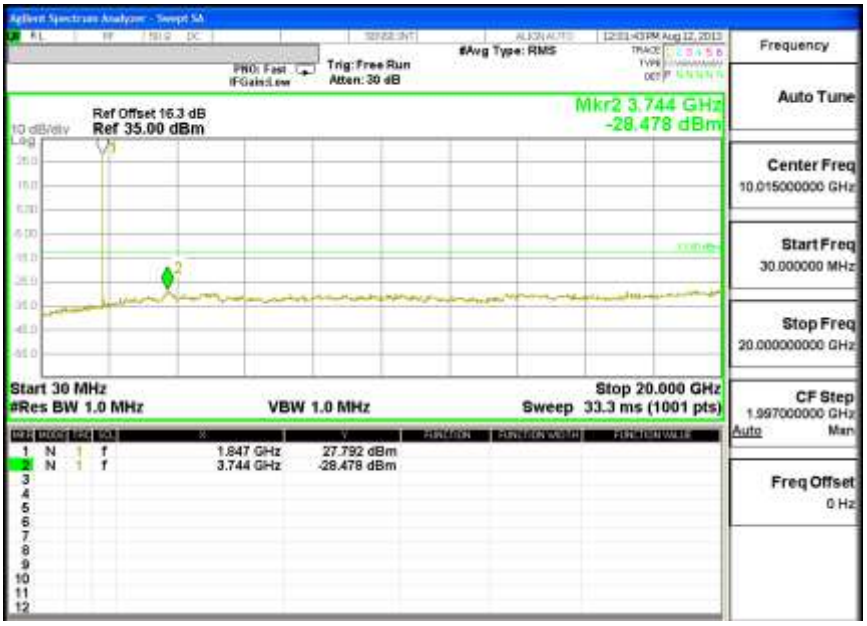
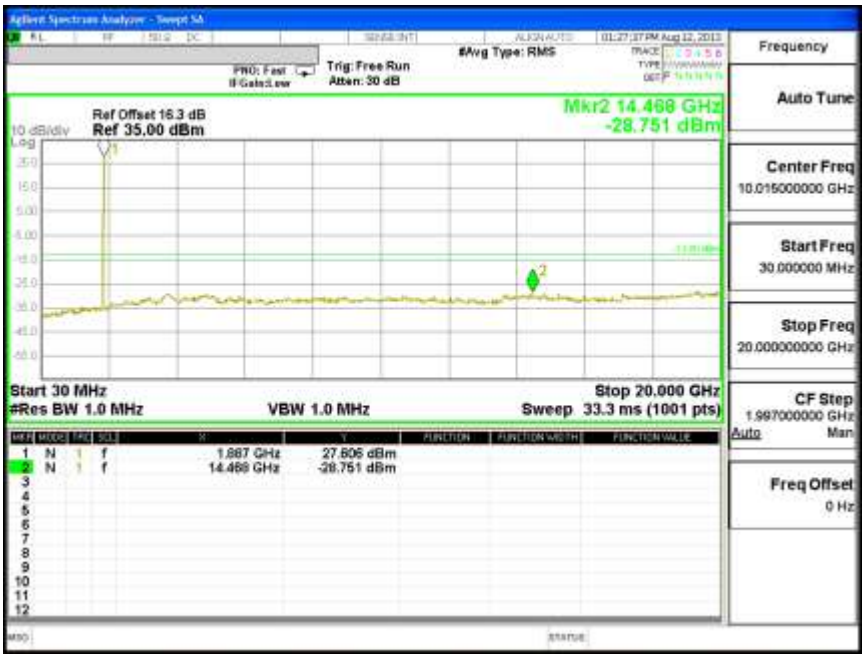
LTE QPSK, 5.0 MHz BAND WIDTH

LOW, RB1-0, 30 TO 20000 MHz



MID, RB1-0, 30 TO 20000 MHz



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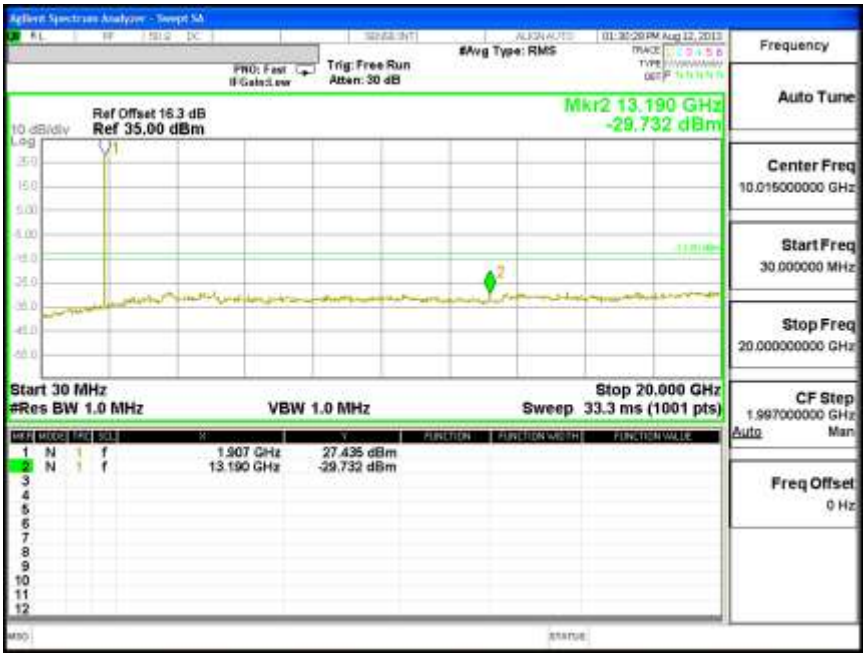
HIGH, RB1-0, 30 TO 20000 MHz



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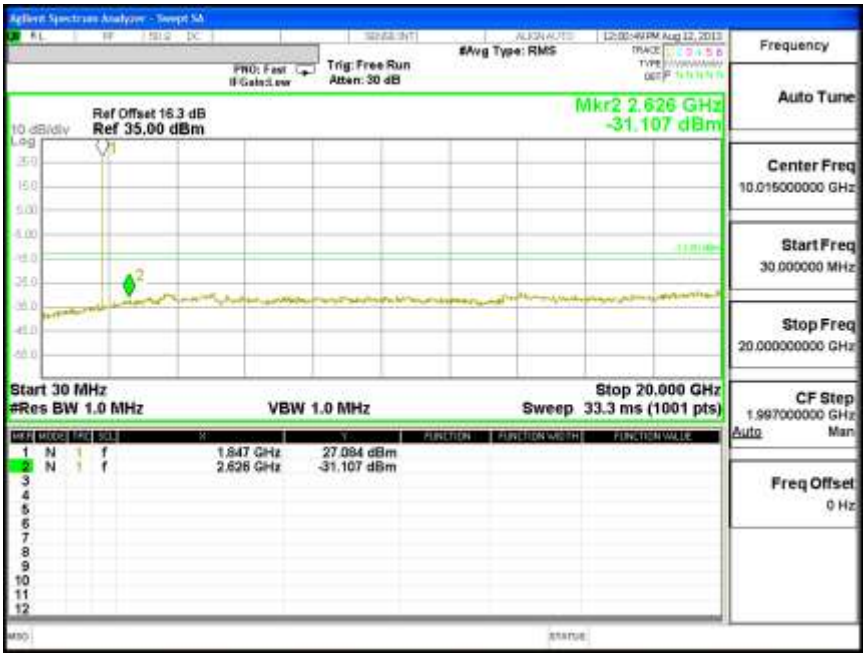
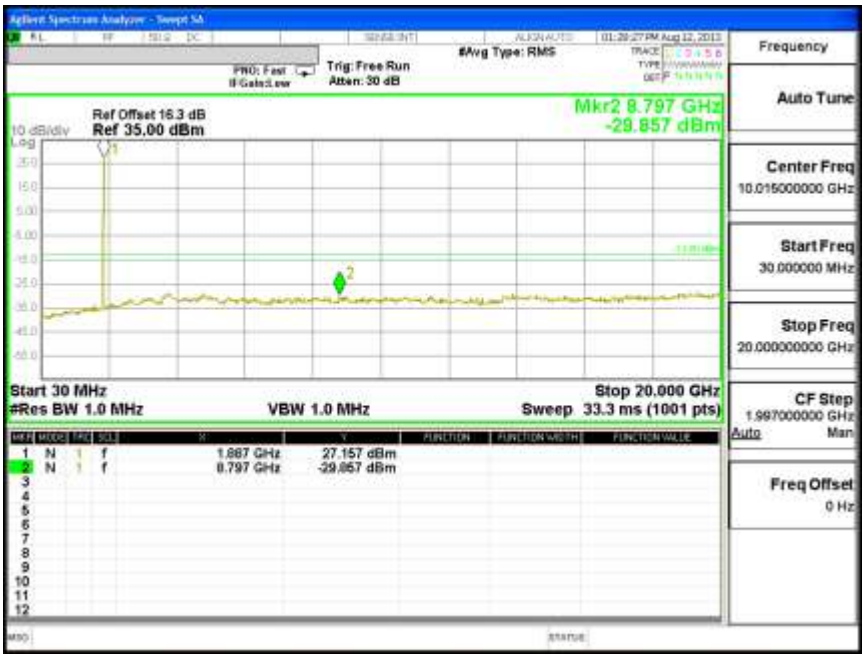
LTE 16QAM

LOW, RB1-0, 30 TO 20000 MHz



MID, RB1-0, 30 TO 20000 MHz



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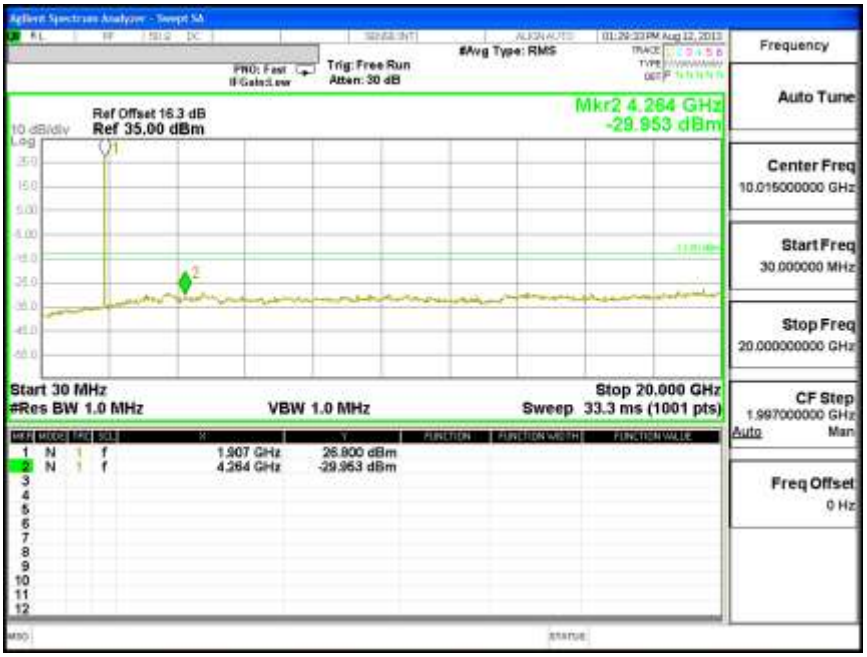
HIGH, RB1-0, 30 TO 20000 MHz



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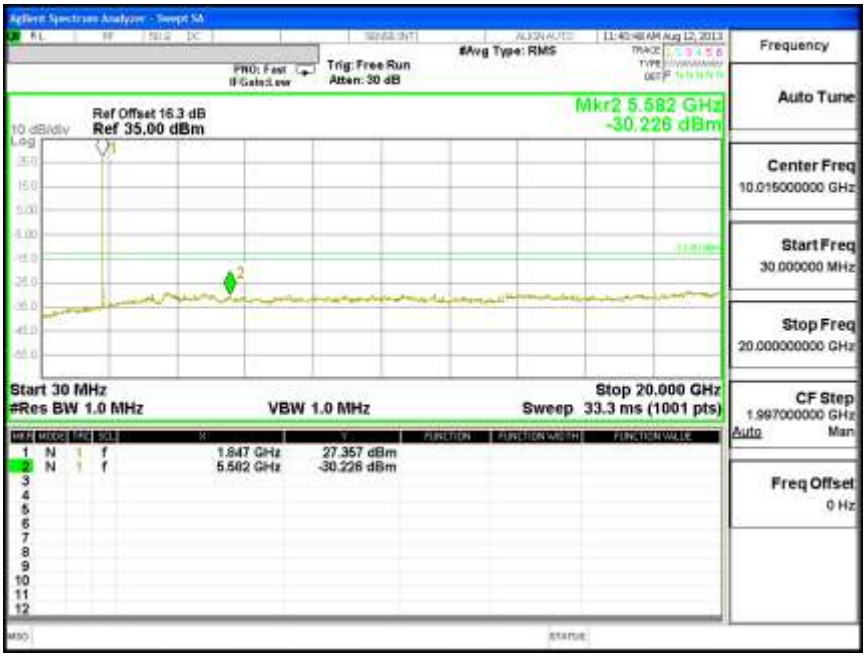
LTE QPSK, 10.0 MHz BAND WIDTH

LOW, RB1-0, 30 TO 20000 MHz



MID, RB1-0, 30 TO 20000 MHz

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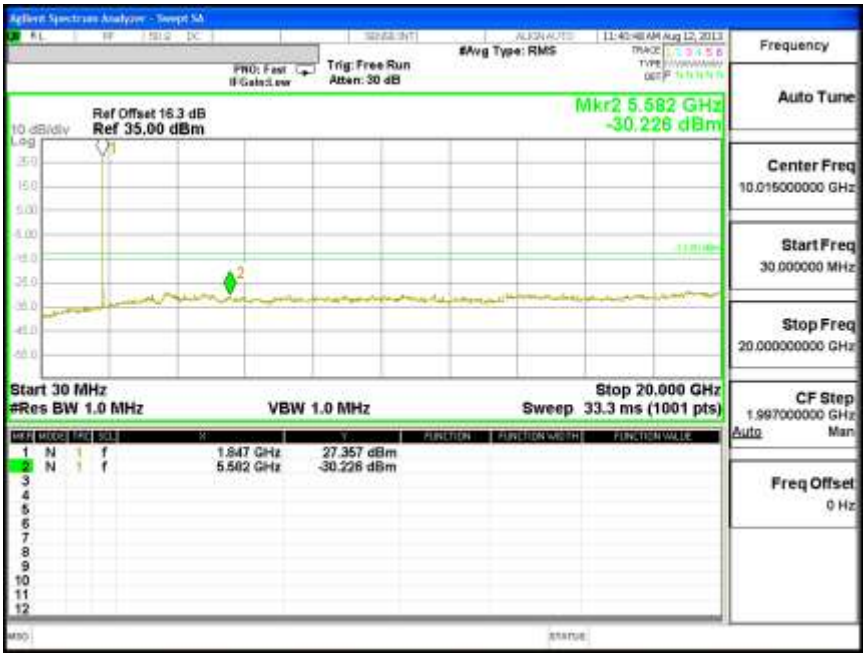
HIGH, RB1-0, 30 TO 20000 MHz



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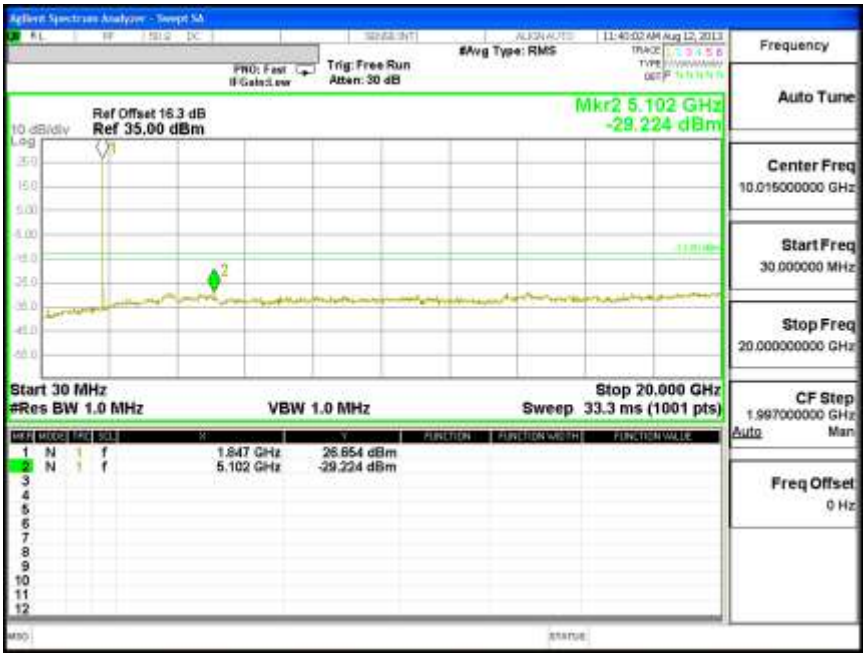
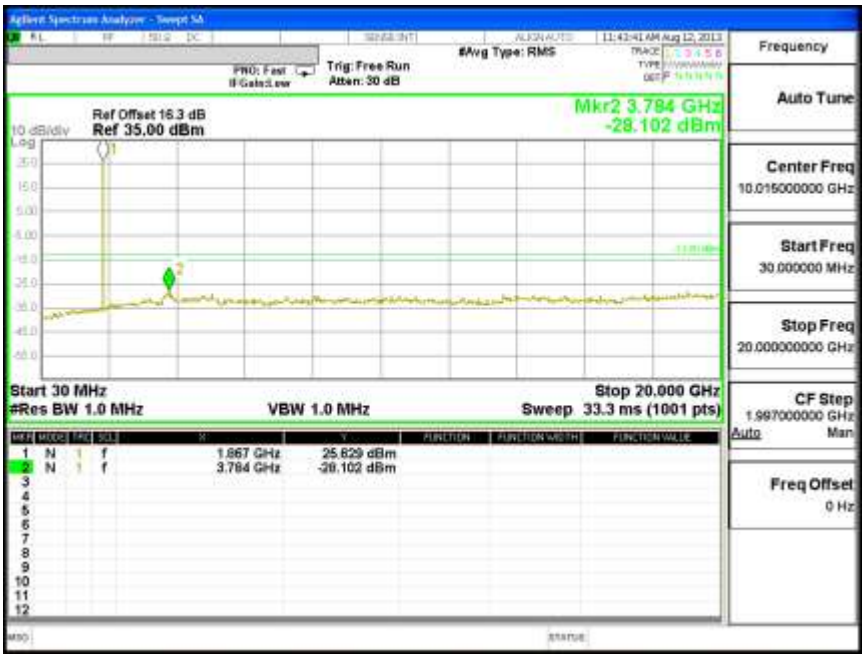
LTE 16QAM

LOW, RB1-0, 30 TO 20000 MHz



MID, RB1-0, 30 TO 20000 MHz



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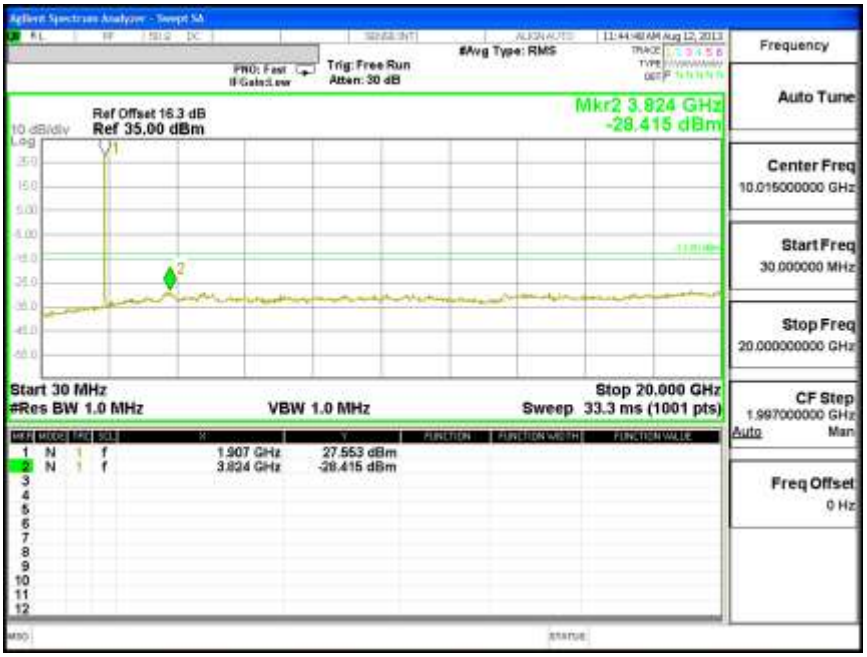
HIGH, RB1-0, 30 TO 20000 MHz



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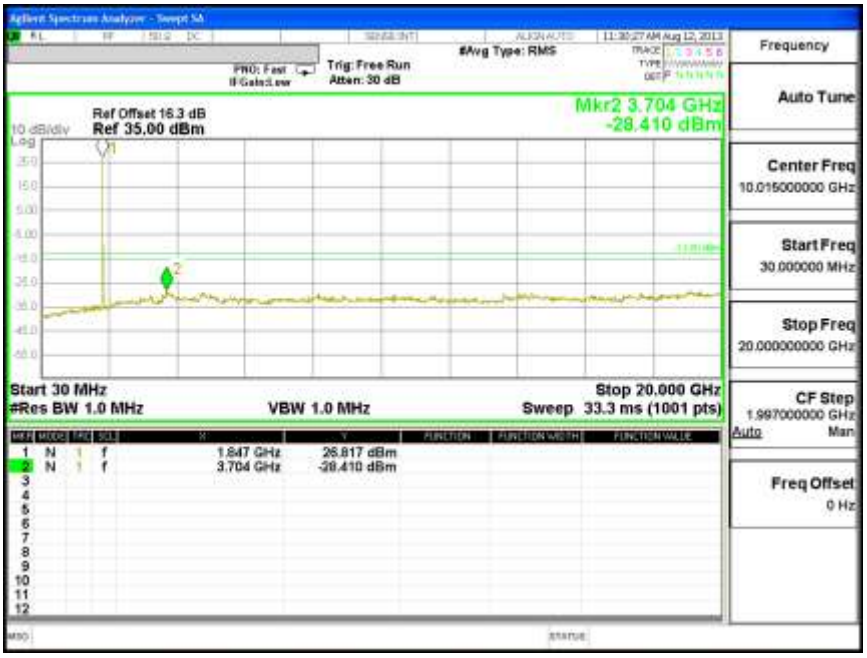
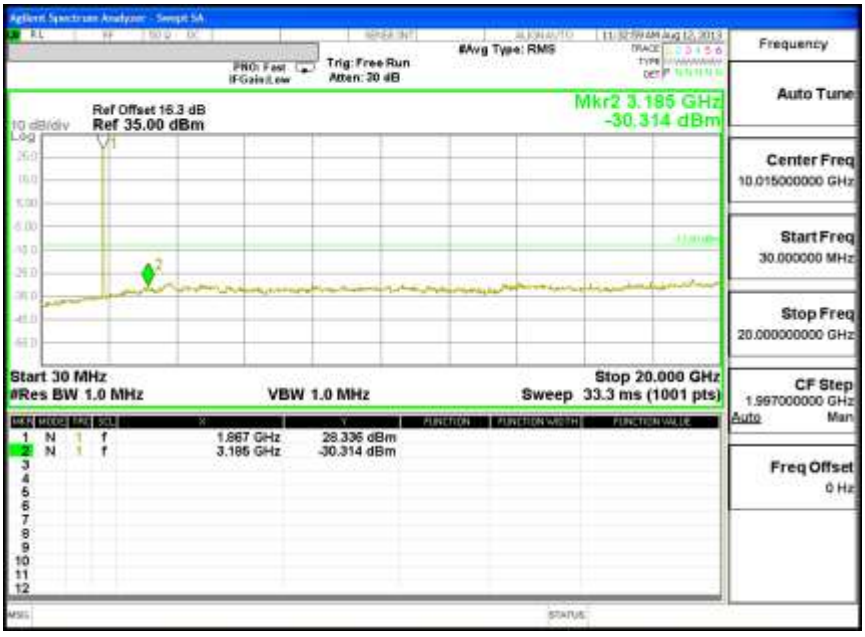
LTE QPSK, 15.0 MHz BAND WIDTH

LOW, RB1-0, 30 TO 20000 MHz



MID, RB1-0, 30 TO 20000 MHz



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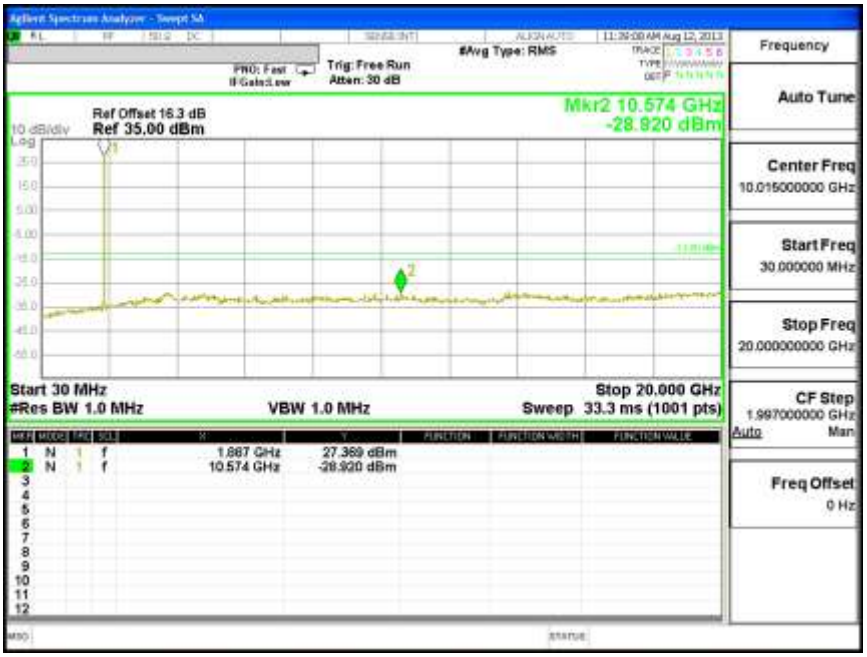
HIGH, RB1-0, 30 TO 20000 MHz



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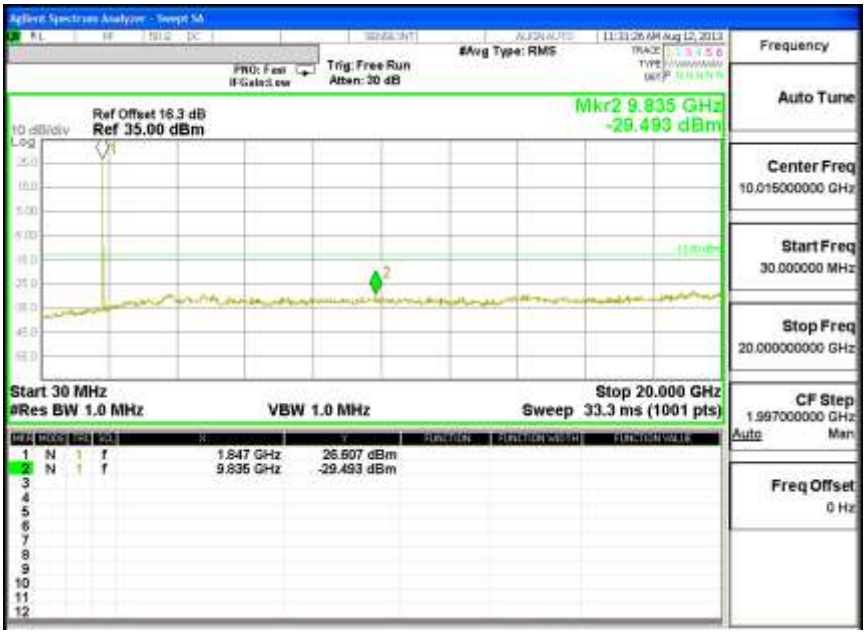
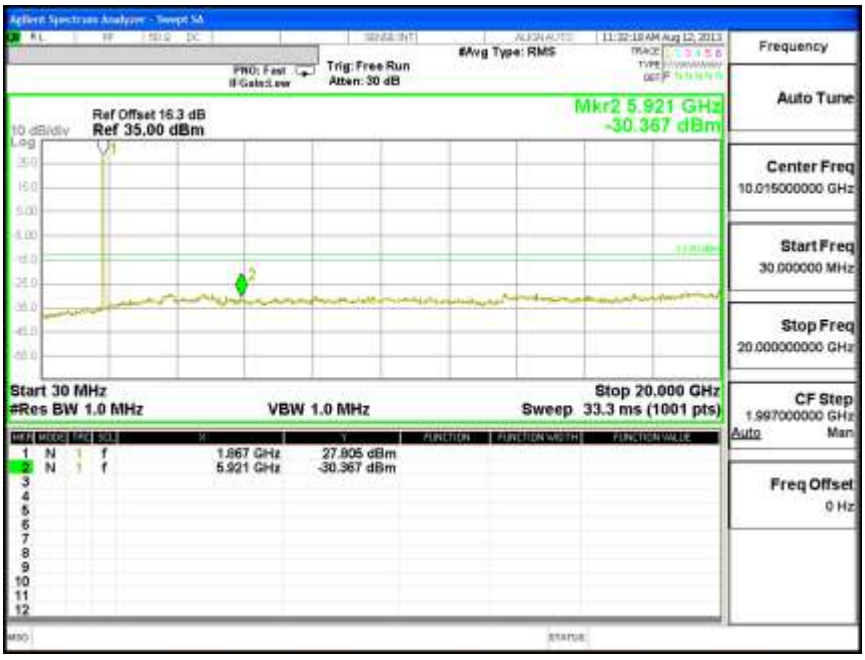
LTE 16QAM

LOW, RB1-0, 30 TO 20000 MHz



MID, RB1-0, 30 TO 20000 MHz



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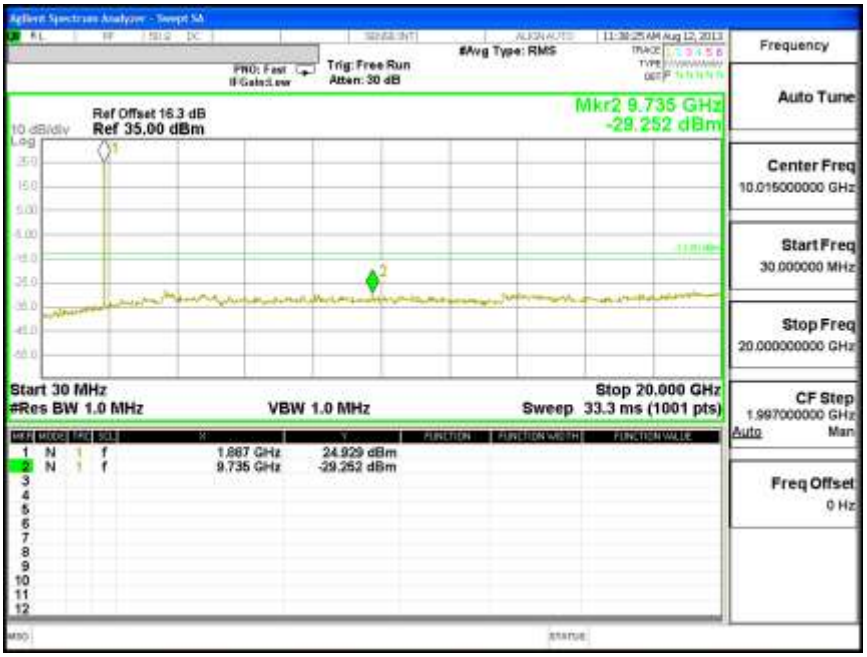
HIGH, RB1-0, 30 TO 20000 MHz



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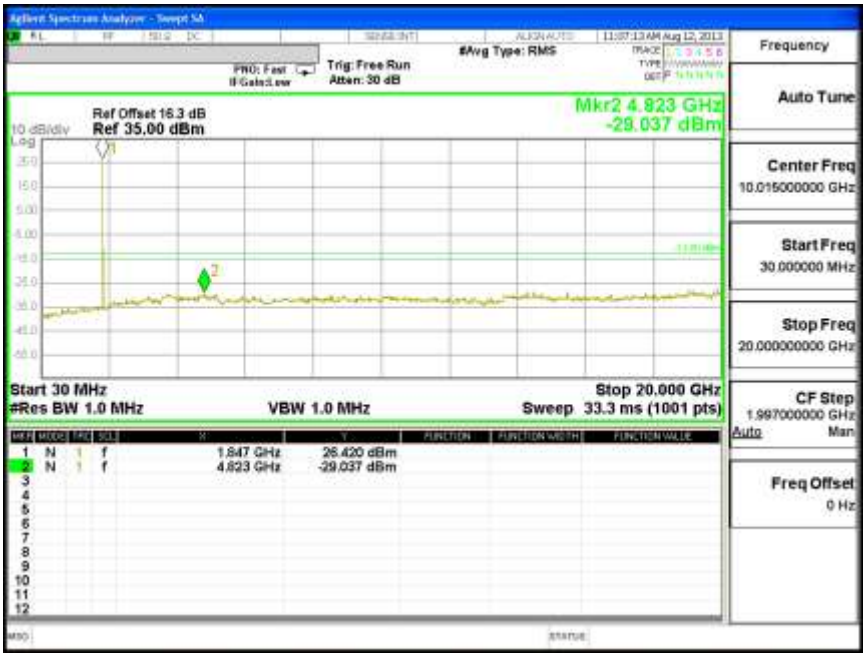
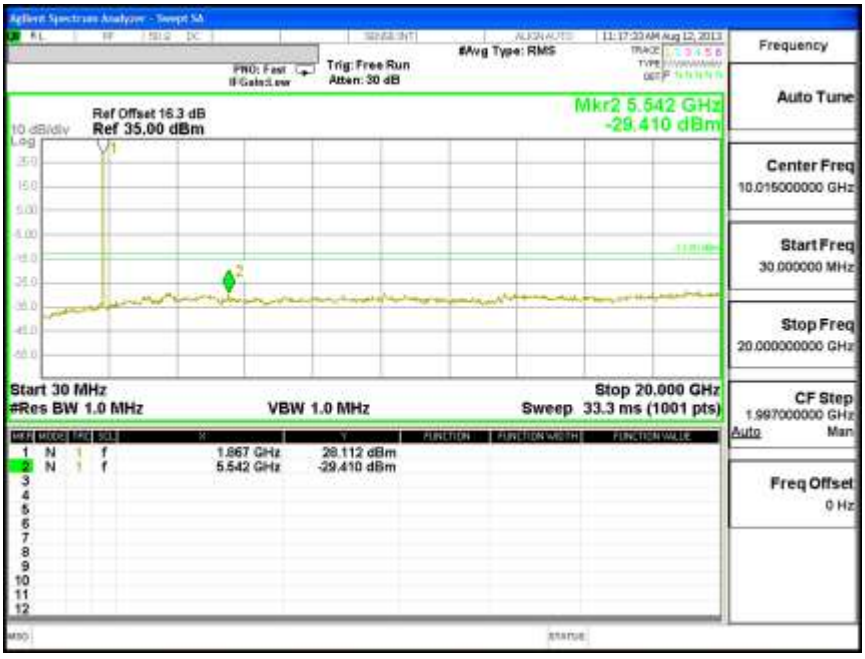
LTE QPSK, 20.0 MHz BAND WIDTH

LOW, RB1-0, 30 TO 20000 MHz



MID, RB1-0, 30 TO 20000 MHz



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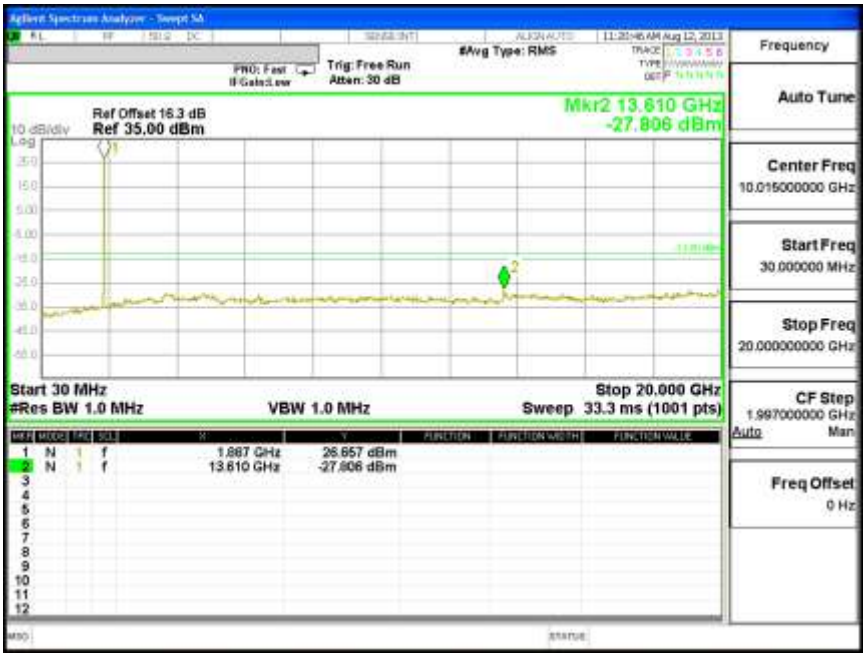
HIGH, RB1-0, 30 TO 20000 MHz



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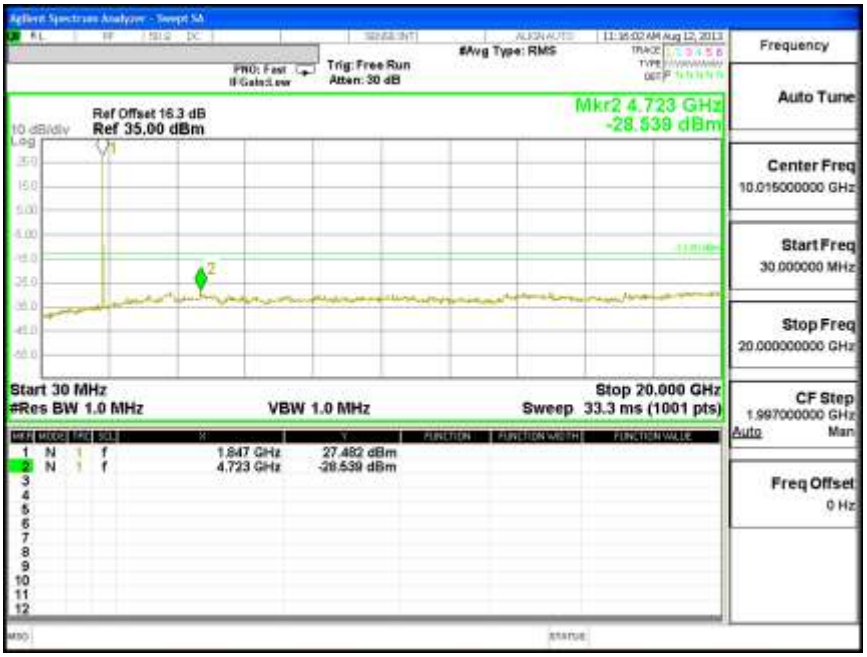
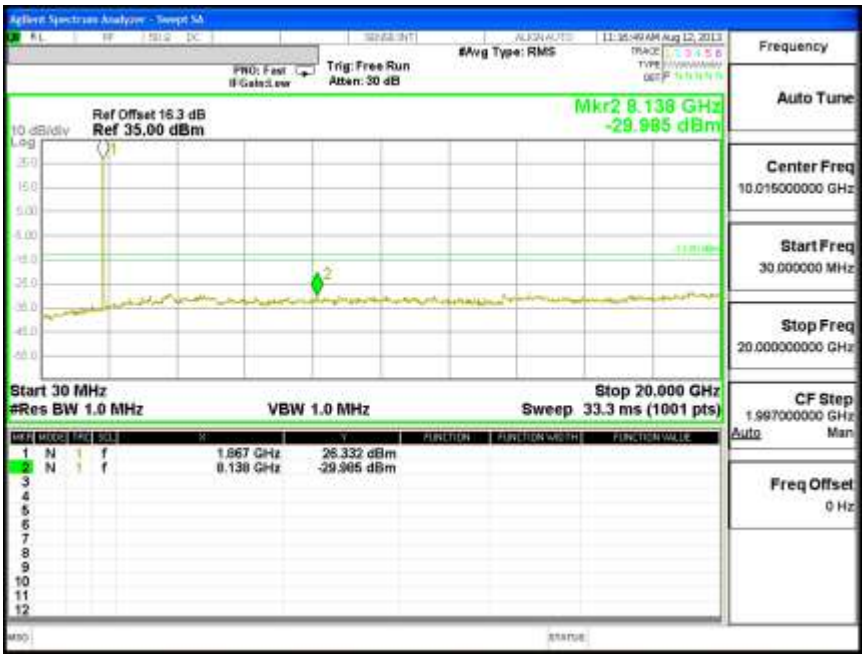
LTE 16QAM

LOW, RB1-0, 30 TO 20000 MHz



MID, RB1-0, 30 TO 20000 MHz



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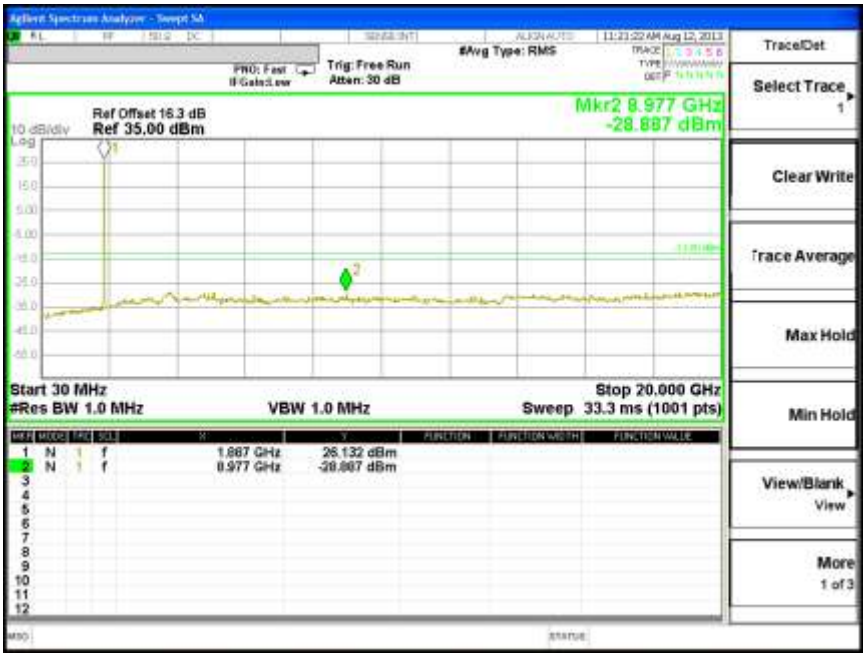
HIGH, RB1-0, 30 TO 20000 MHz



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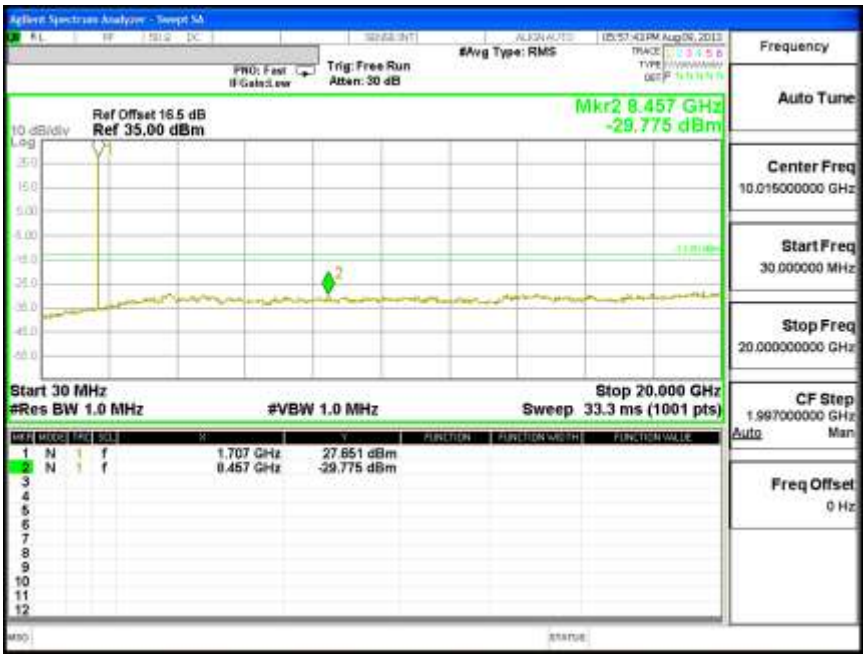
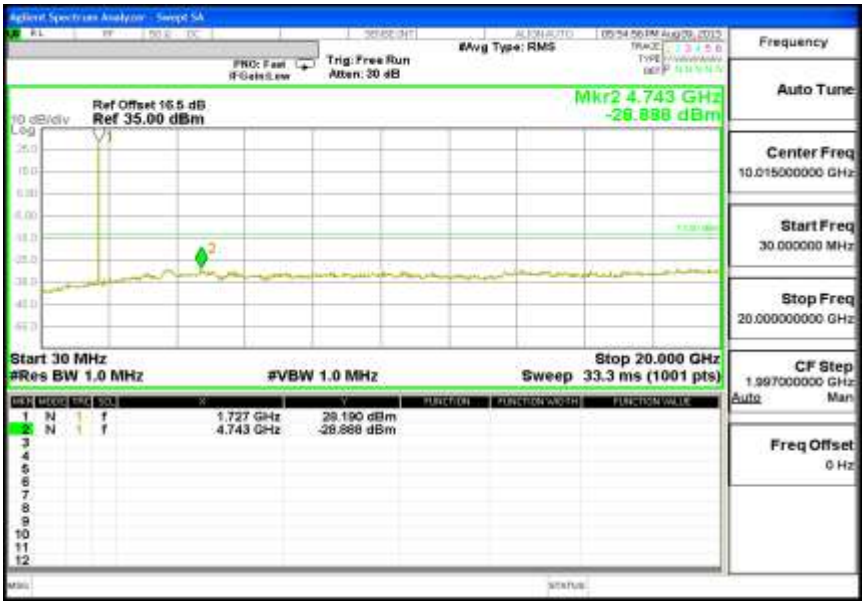
8.3.2. LTE BAND 4

LTE QPSK (1.4 MHz BAND WIDTH)

LOW, RB1-0, 30 TO 20000 MHz



MID, RB1-0, 30 TO 20000 MHz



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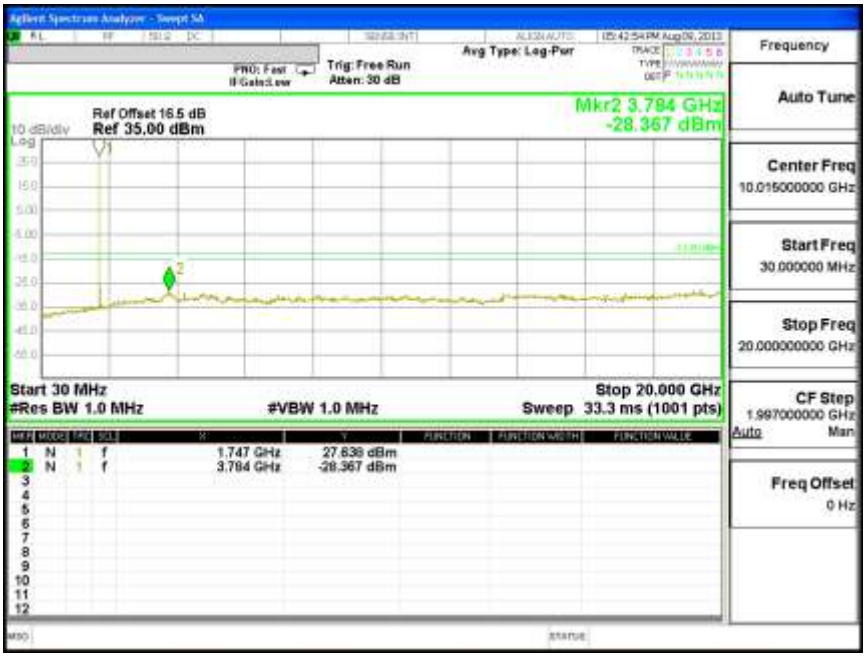
HIGH, RB1-0, 30 TO 20000 MHz



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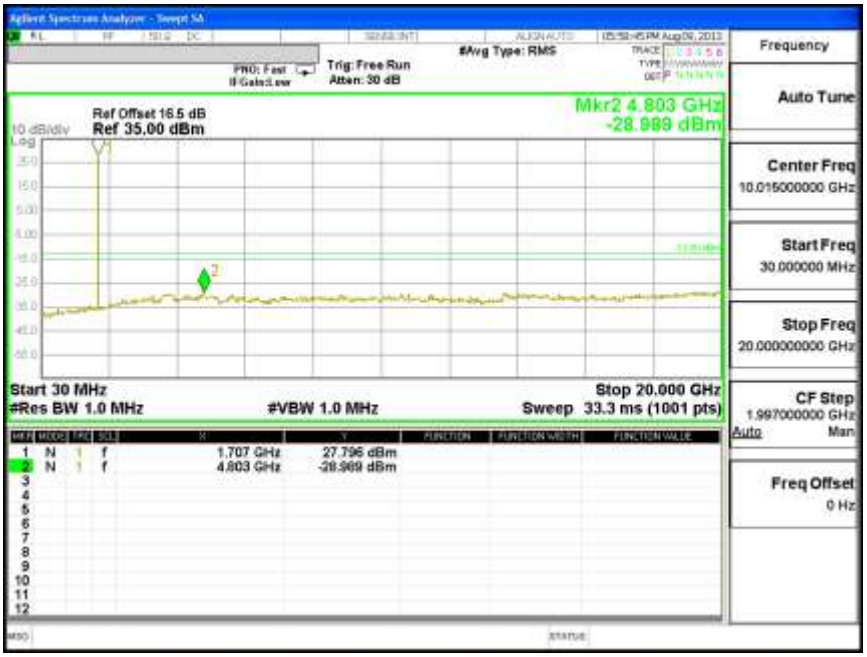
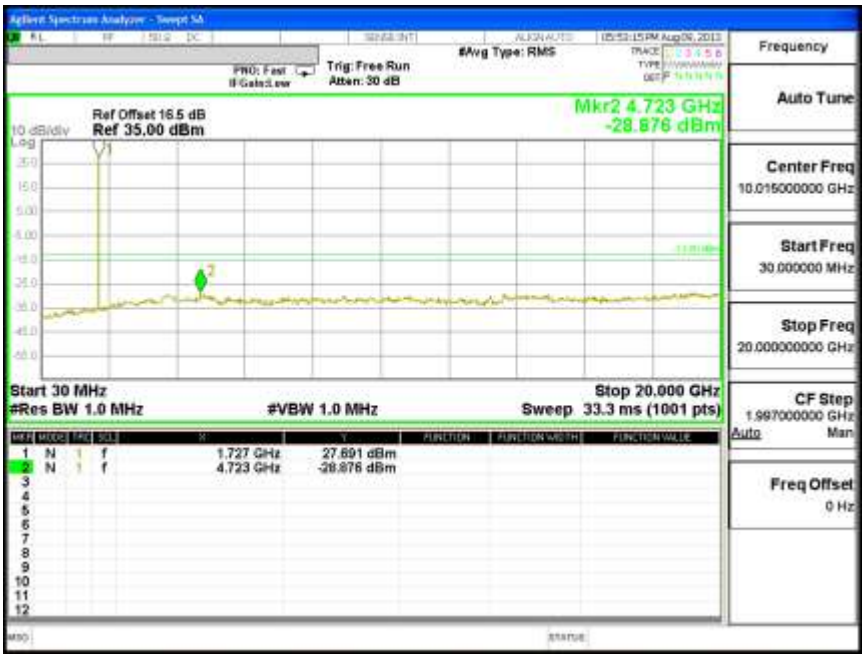
LTE 16QAM

LOW, RB1-0, 30 TO 20000 MHz



MID, RB1-0, 30 TO 20000 MHz



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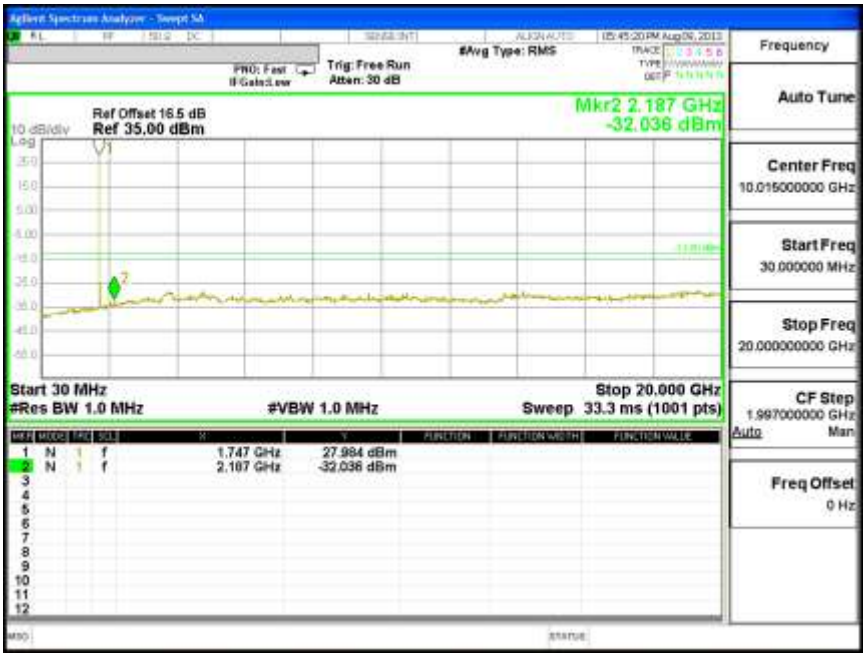
HIGH, RB1-0, 30 TO 20000 MHz



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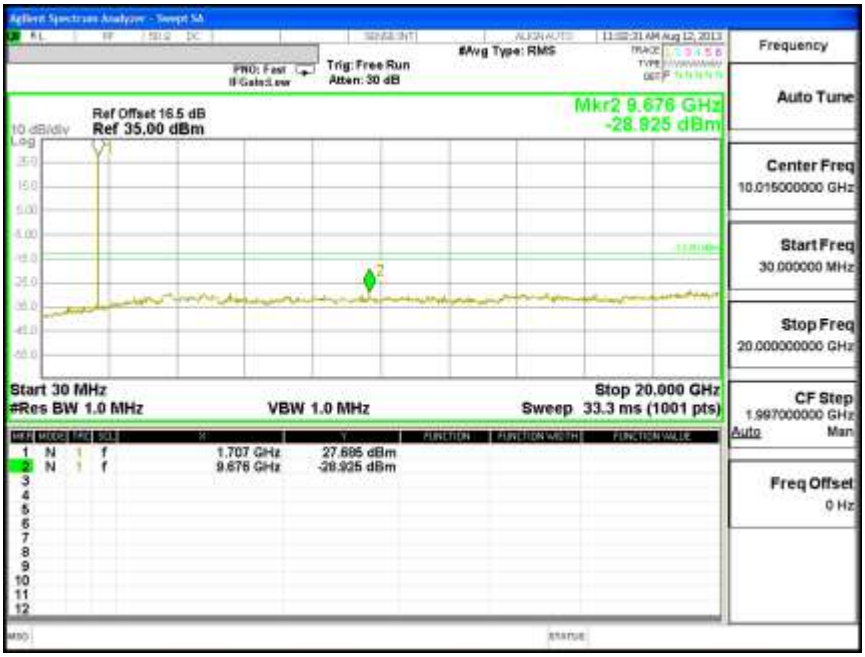
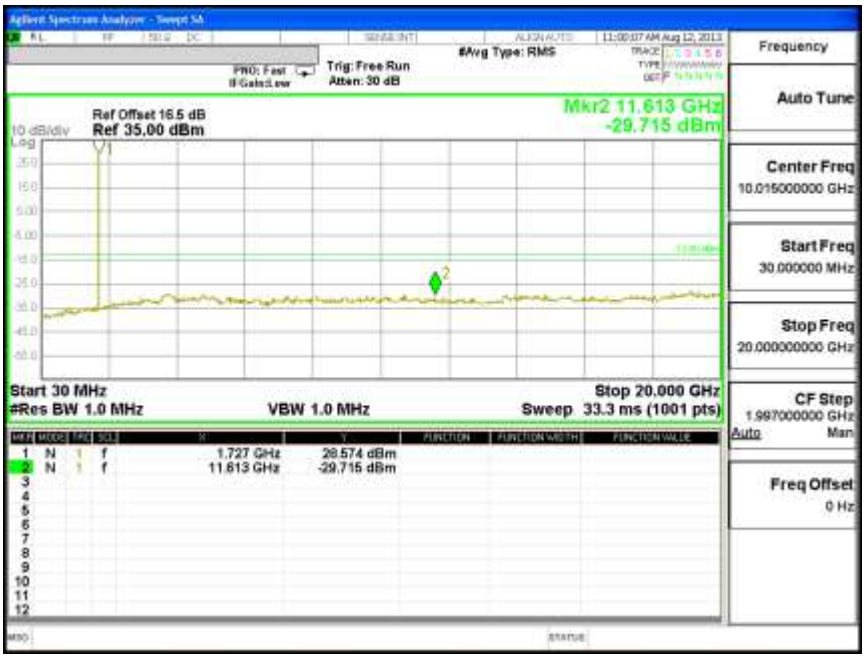
LTE QPSK, 3.0 MHz BAND WIDTH

LOW, RB1-0, 30 TO 20000 MHz



MID, RB1-0, 30 TO 20000 MHz



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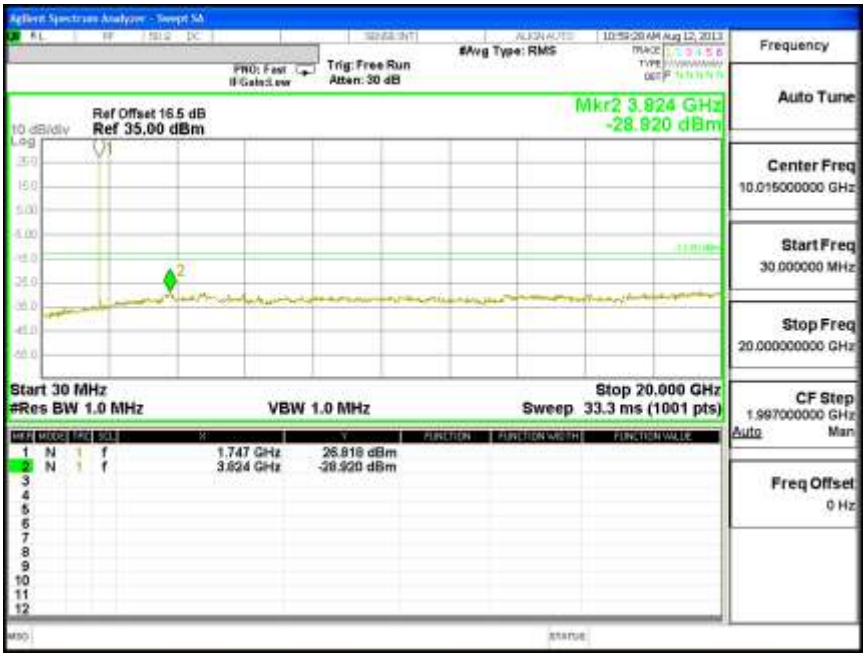
HIGH, RB1-0, 30 TO 20000 MHz



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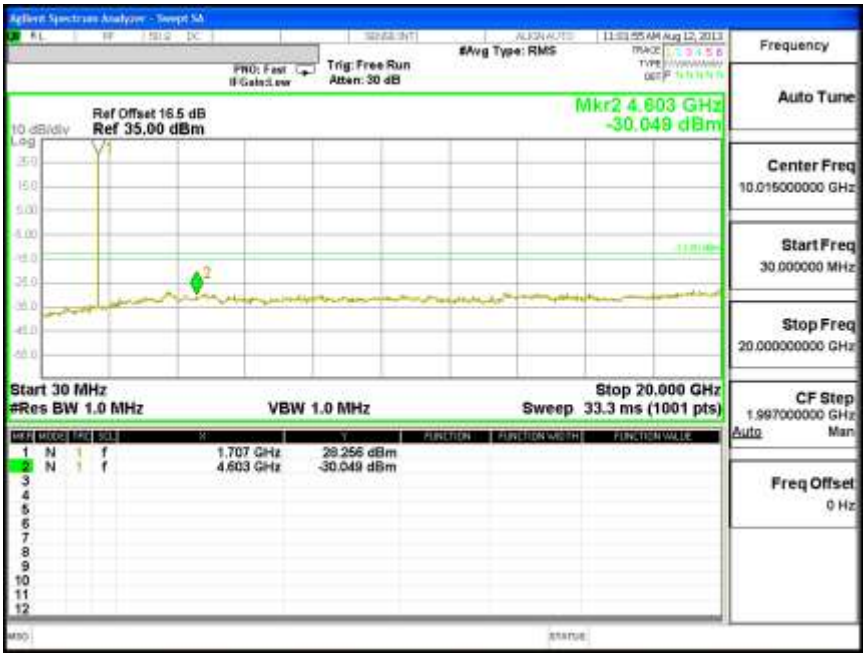
LTE 16QAM

LOW, RB1-0, 30 TO 20000 MHz



MID, RB1-0, 30 TO 20000 MHz

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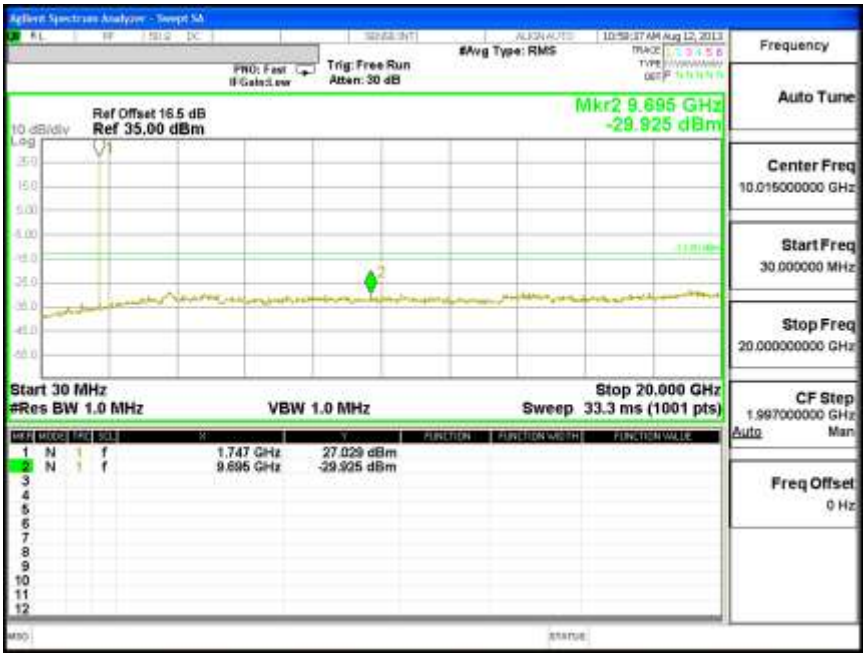
HIGH, RB1-0, 30 TO 20000 MHz



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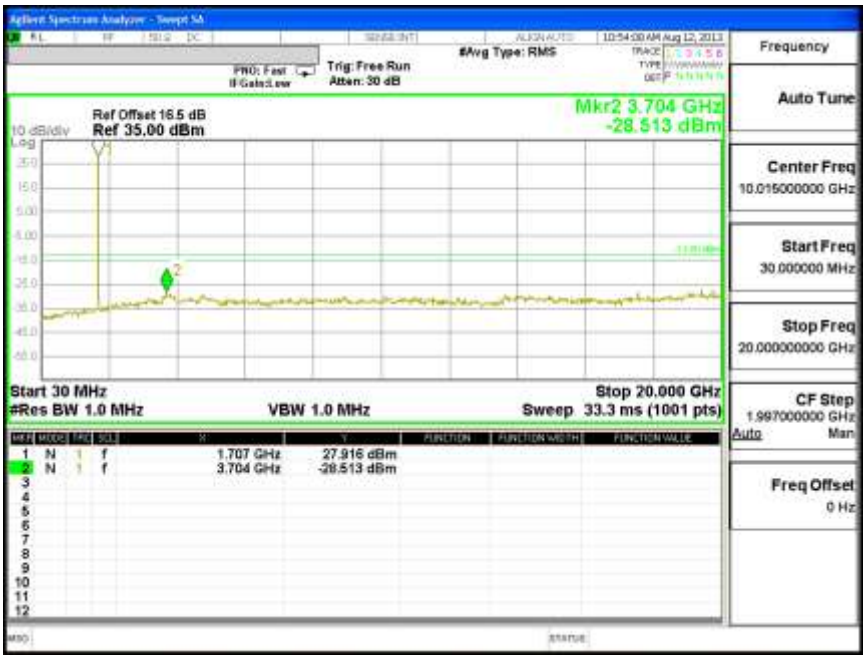
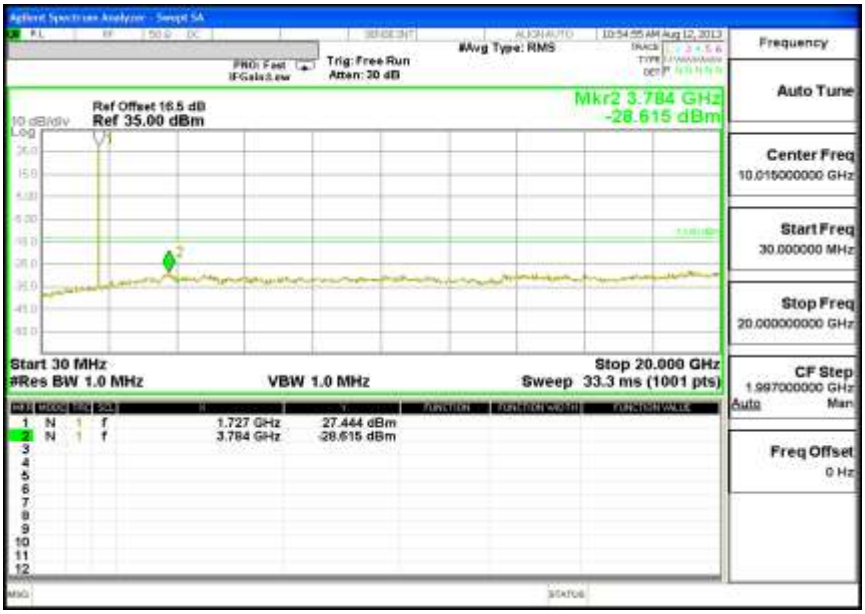
LTE QPSK, 5.0 MHz BAND WIDTH

LOW, RB1-0, 30 TO 20000 MHz



MID, RB1-0, 30 TO 20000 MHz



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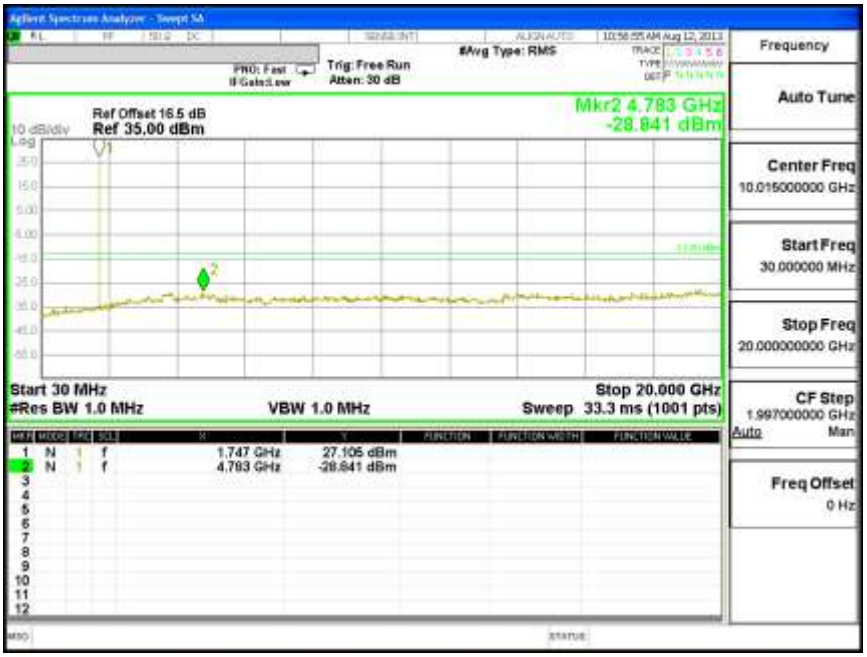
HIGH, RB1-0, 30 TO 20000 MHz



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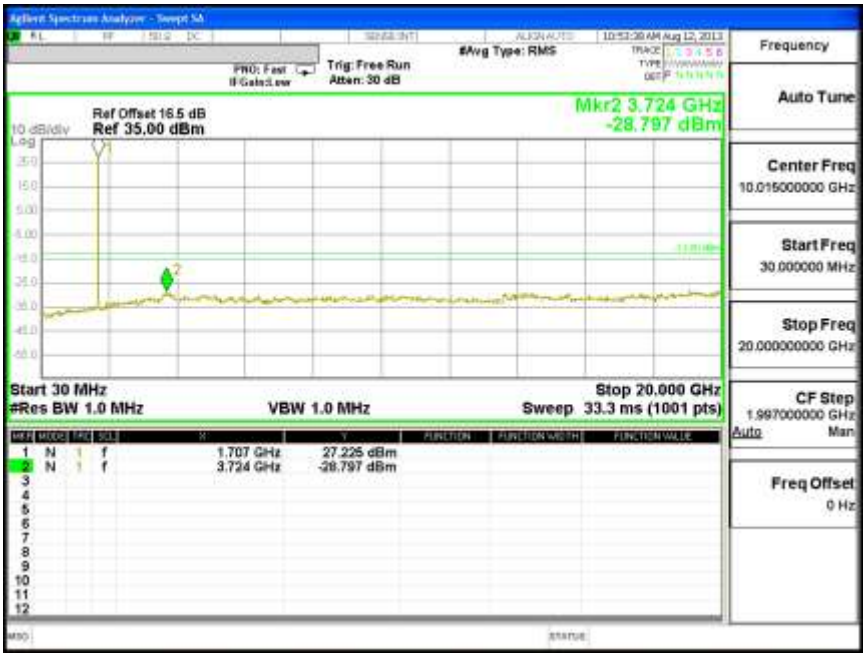
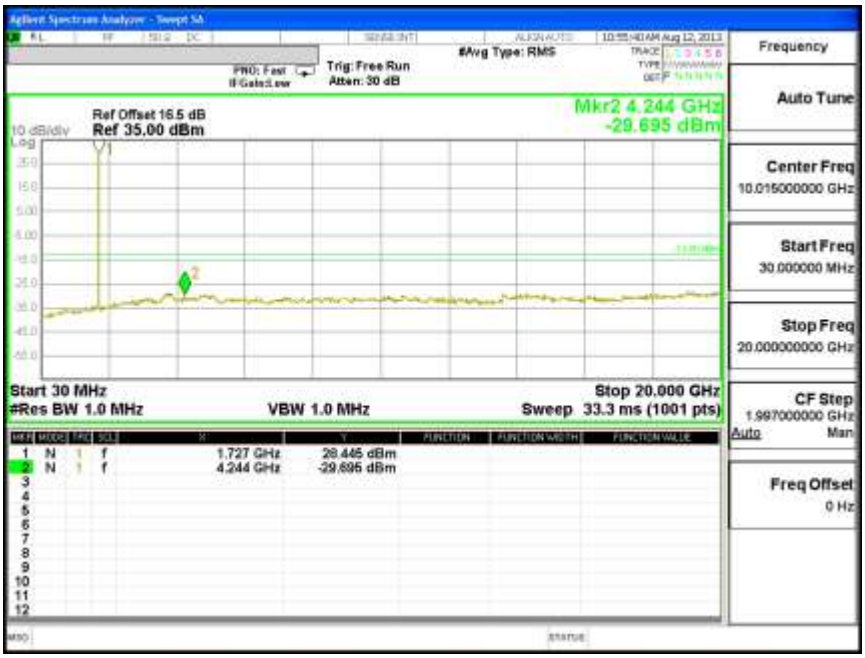
LTE 16QAM

LOW, RB1-0, 30 TO 20000 MHz



MID, RB1-0, 30 TO 20000 MHz



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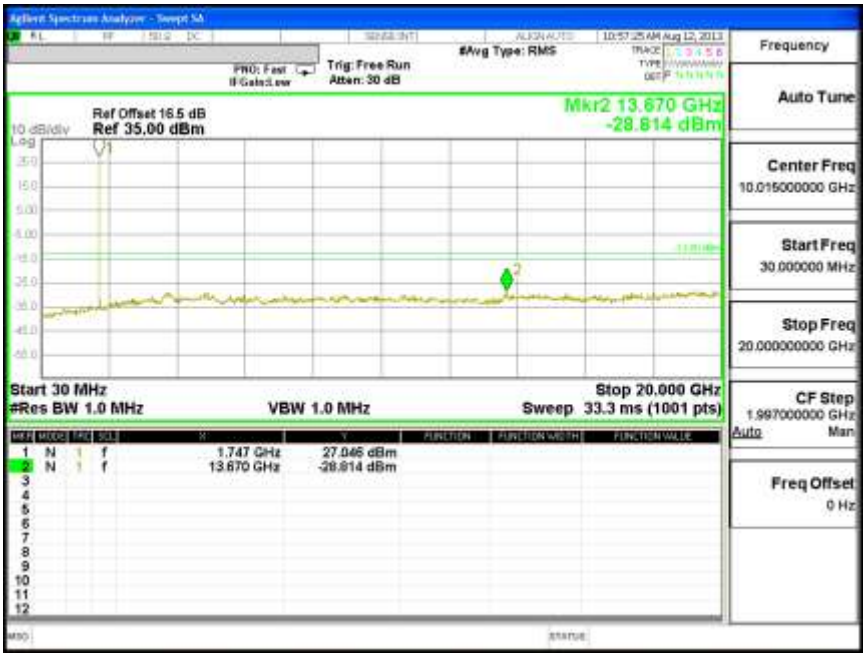
HIGH, RB1-0, 30 TO 20000 MHz



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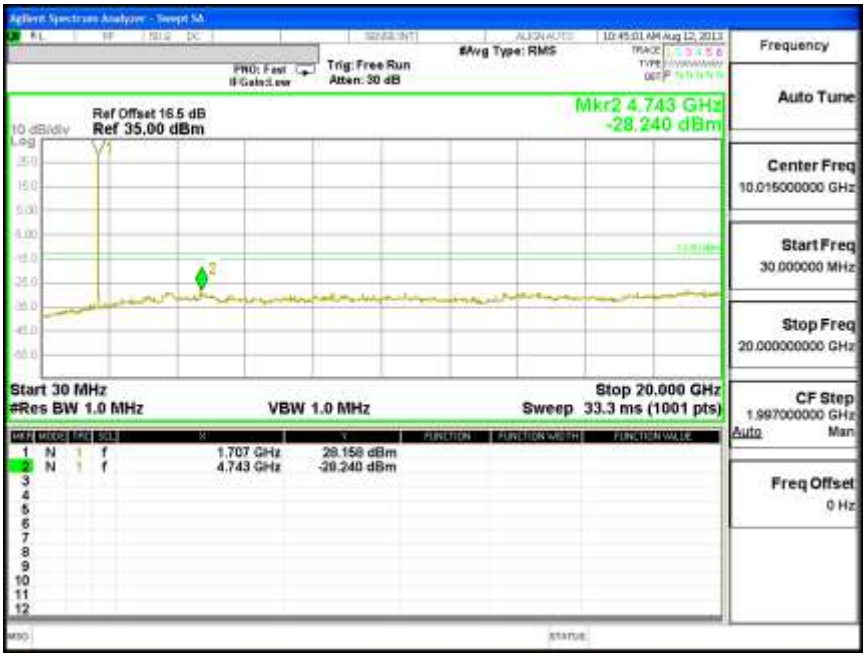
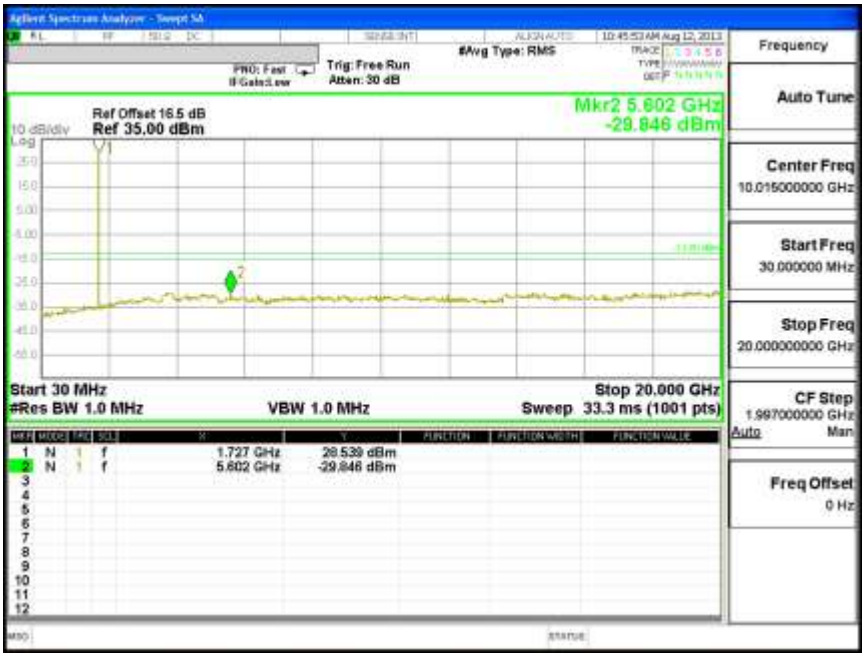
LTE QPSK, 10.0 MHz BAND WIDTH

LOW, RB1-0, 30 TO 20000 MHz



MID, RB1-0, 30 TO 20000 MHz



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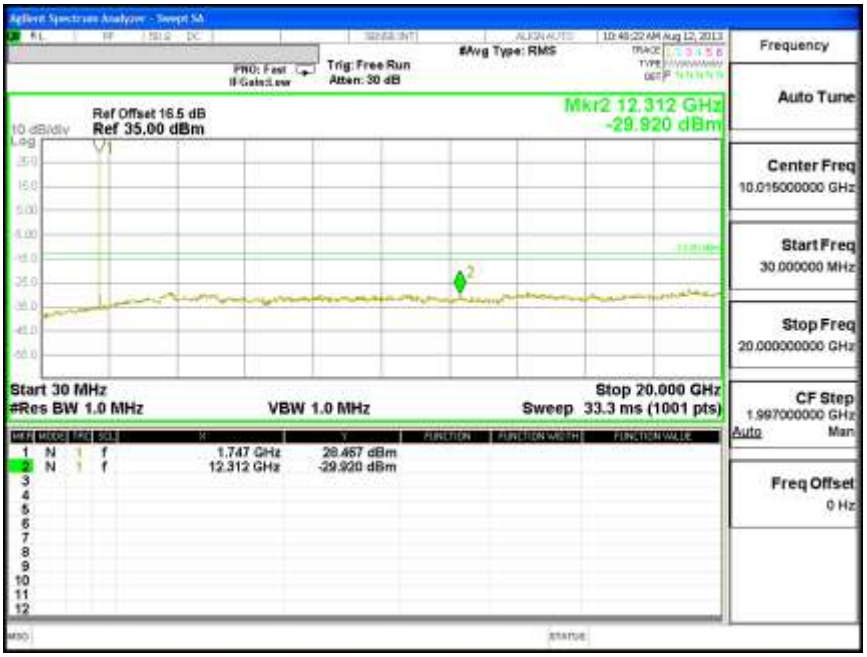
HIGH, RB1-0, 30 TO 20000 MHz



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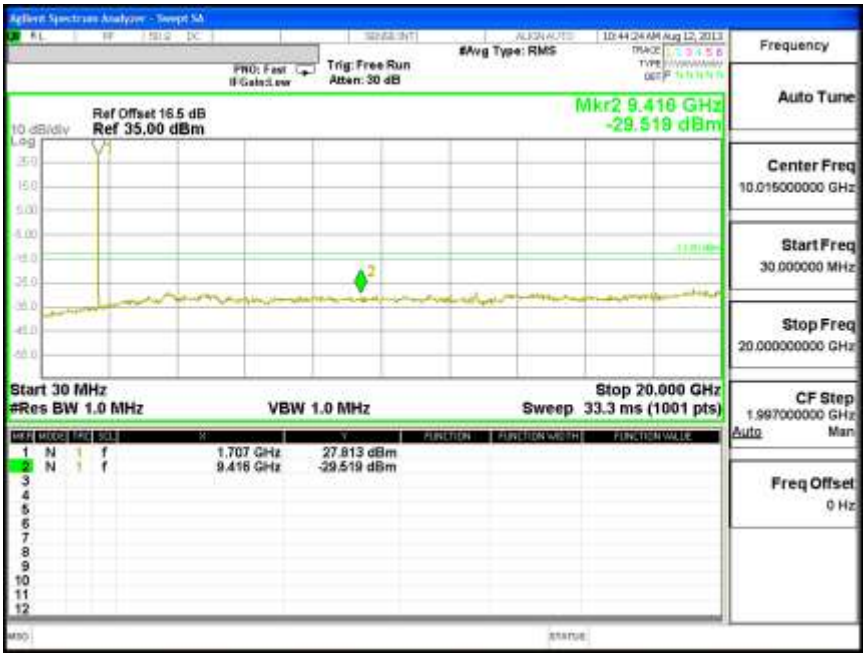
LTE 16QAM

LOW, RB1-0, 30 TO 20000 MHz



MID, RB1-0, 30 TO 20000 MHz

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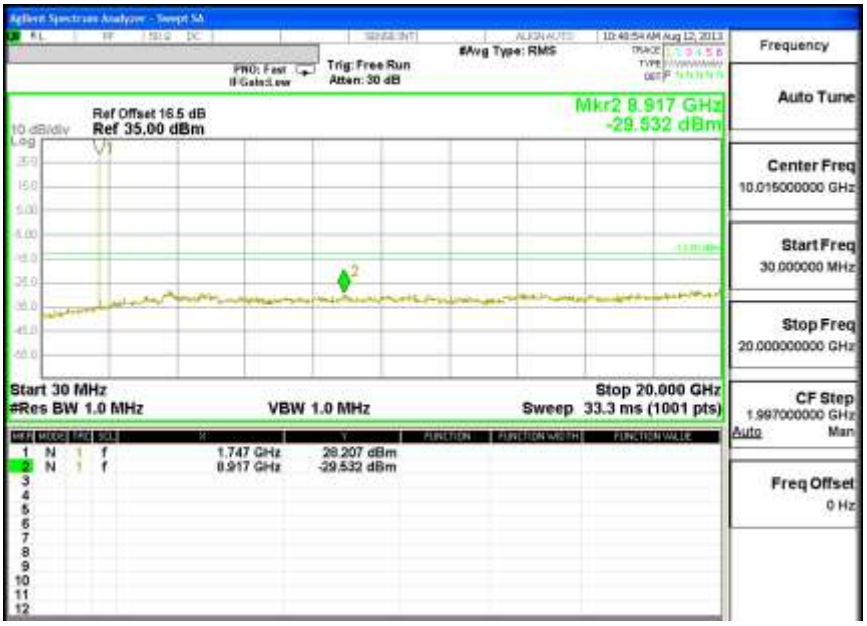
HIGH, RB1-0, 30 TO 20000 MHz



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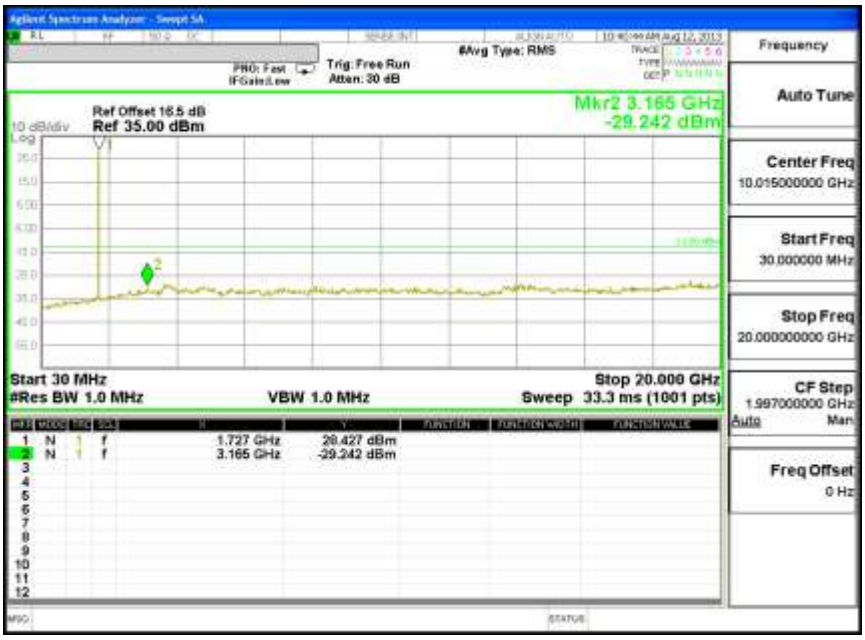
LTE QPSK, 15.0 MHz BAND WIDTH

LOW, RB1-0, 30 TO 20000 MHz

MID, RB1-0, 30 TO 20000 MHz



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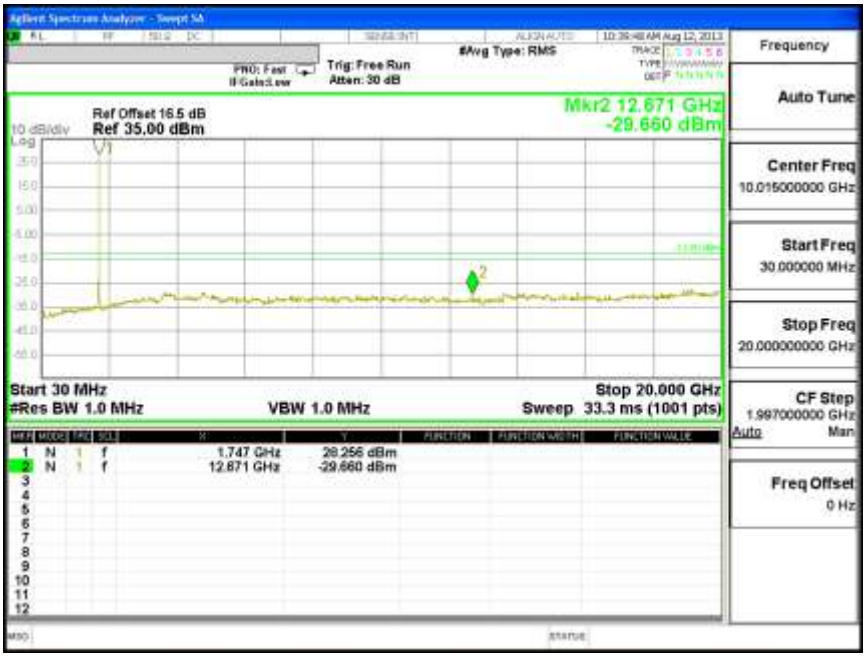
HIGH, RB1-0, 30 TO 20000 MHz



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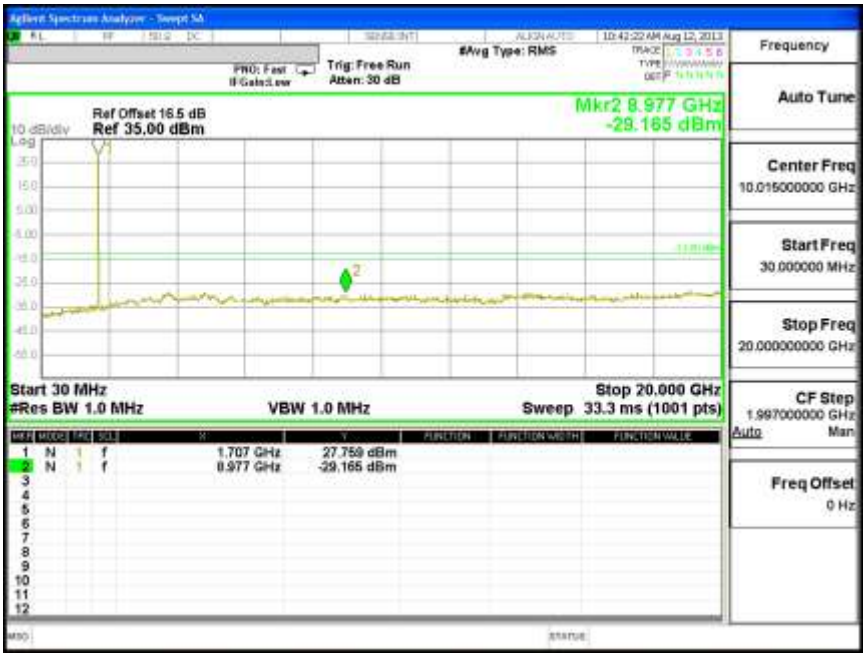
LTE 16QAM

LOW, RB1-0, 30 TO 20000 MHz



MID, RB1-0, 30 TO 20000 MHz

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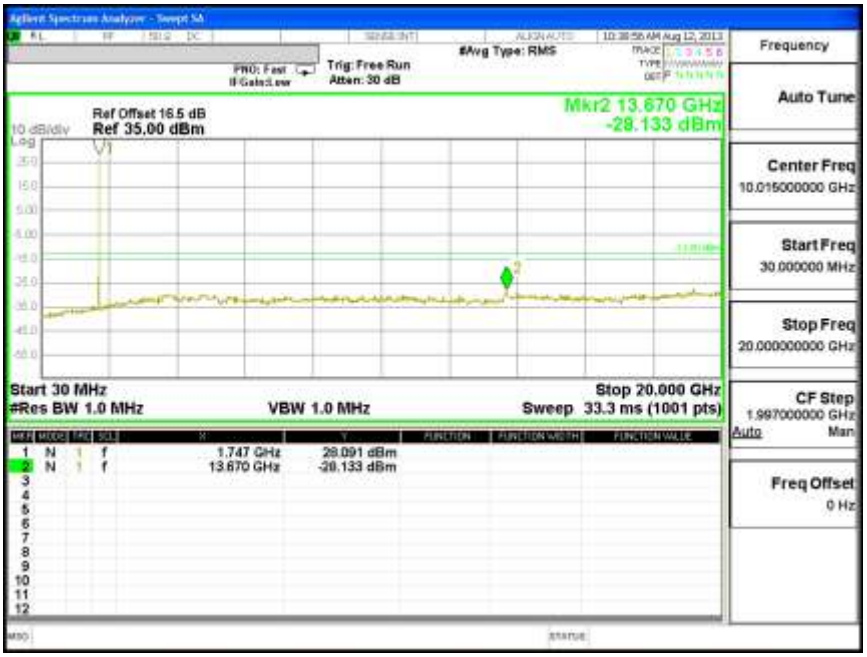
HIGH, RB1-0, 30 TO 20000 MHz



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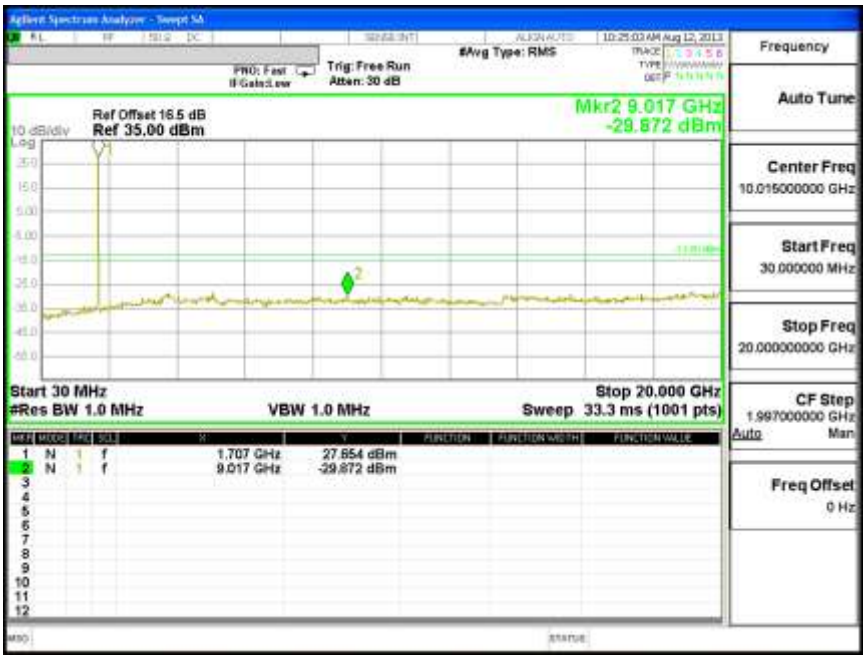
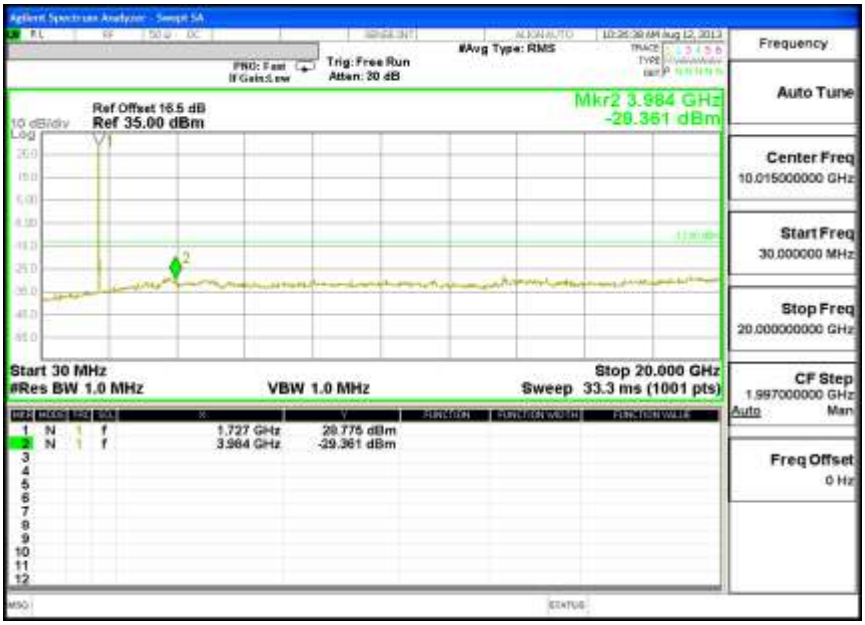
LTE QPSK, 20.0 MHz BAND WIDTH

LOW, RB1-0, 30 TO 20000 MHz



MID, RB1-0, 30 TO 20000 MHz



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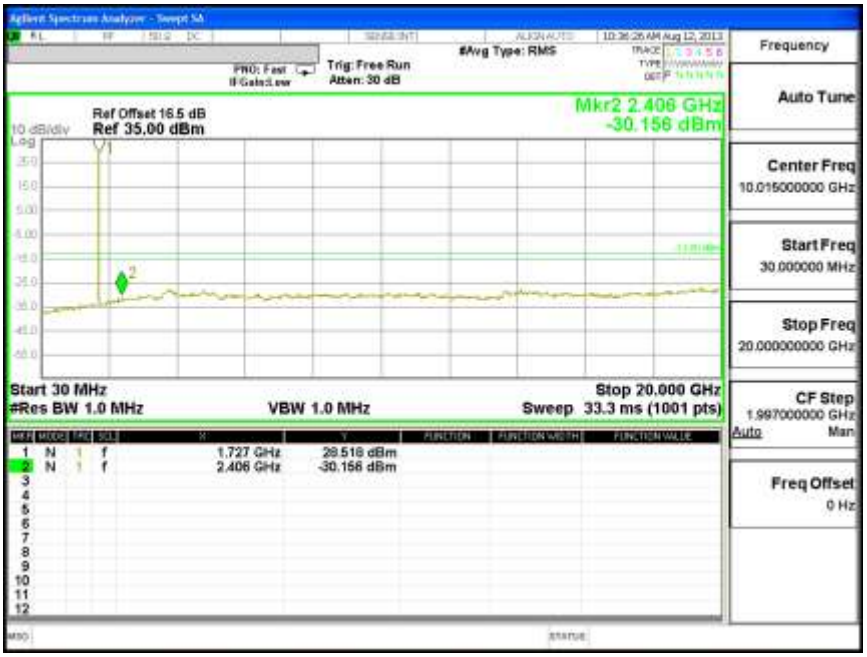
HIGH, RB1-0, 30 TO 20000 MHz



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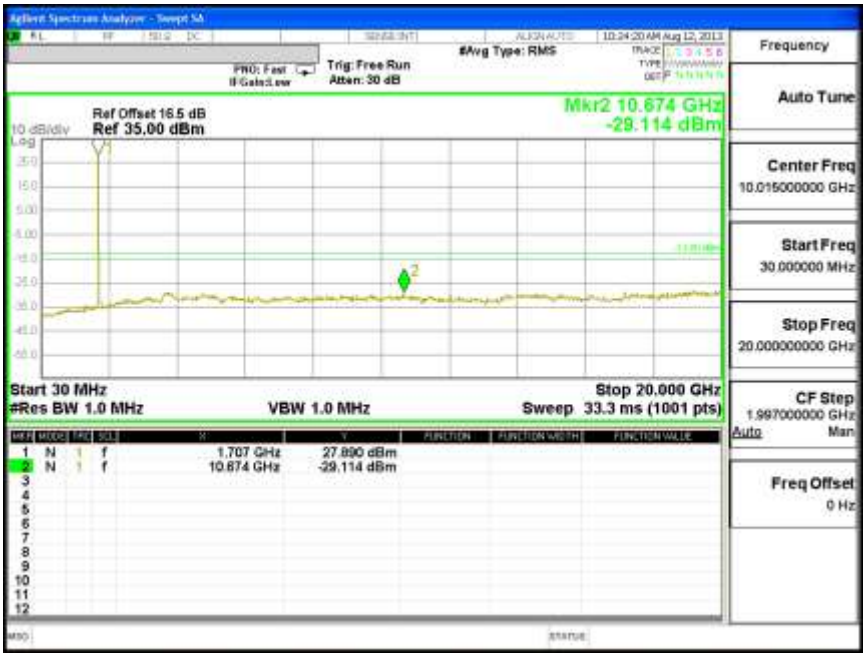
LTE 16QAM

LOW, RB1-0, 30 TO 20000 MHz



MID, RB1-0, 30 TO 20000 MHz

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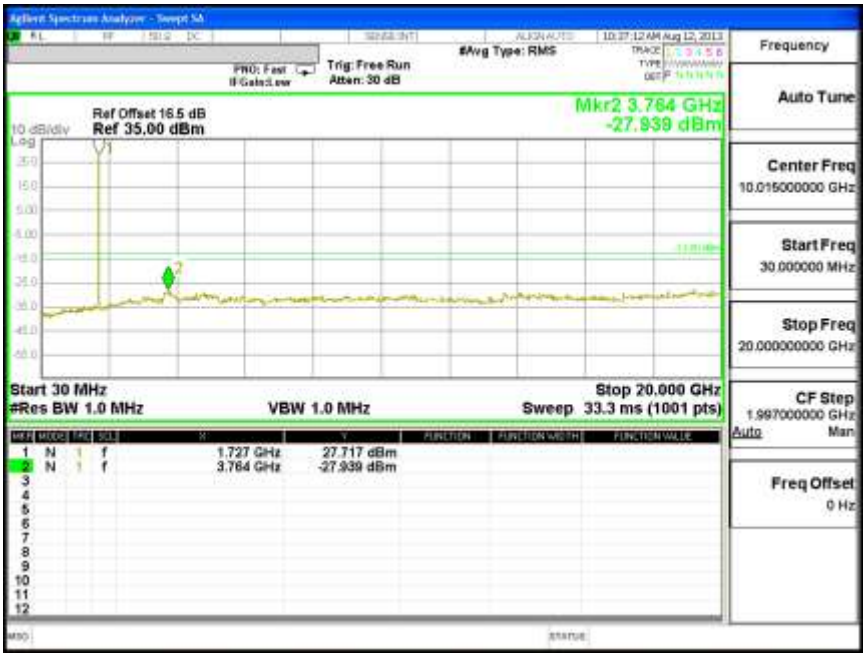
HIGH, RB1-0, 30 TO 20000 MHz



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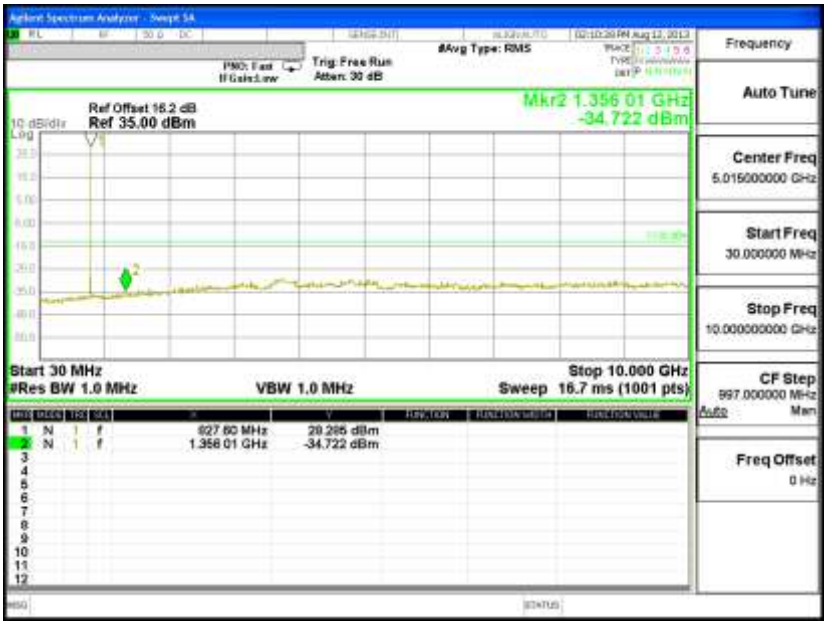
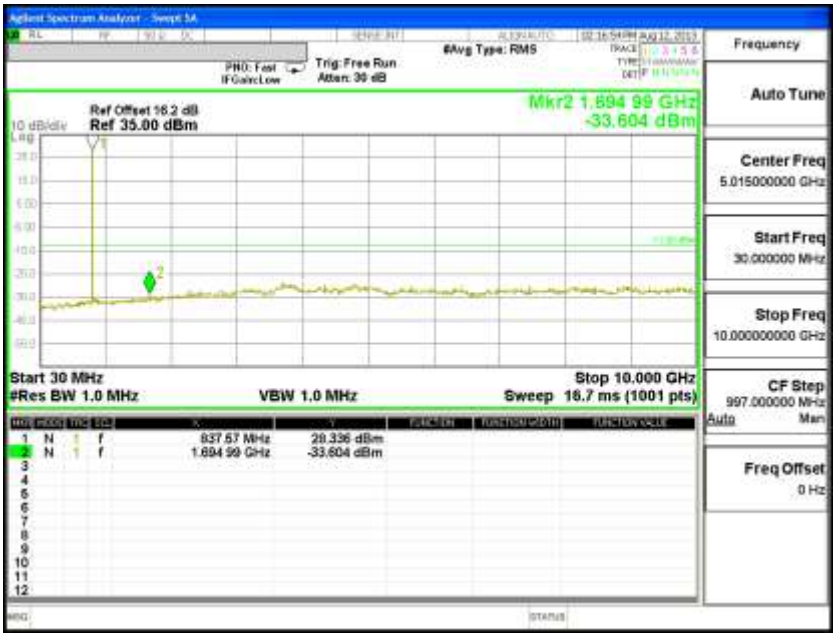
8.3.3. LTE BAND 5

LTE QPSK (1.4 MHz BAND WIDTH)

LOW, RB1-0, 30 TO 10000 MHz



MID, RB1-0, 30 TO 10000 MHz



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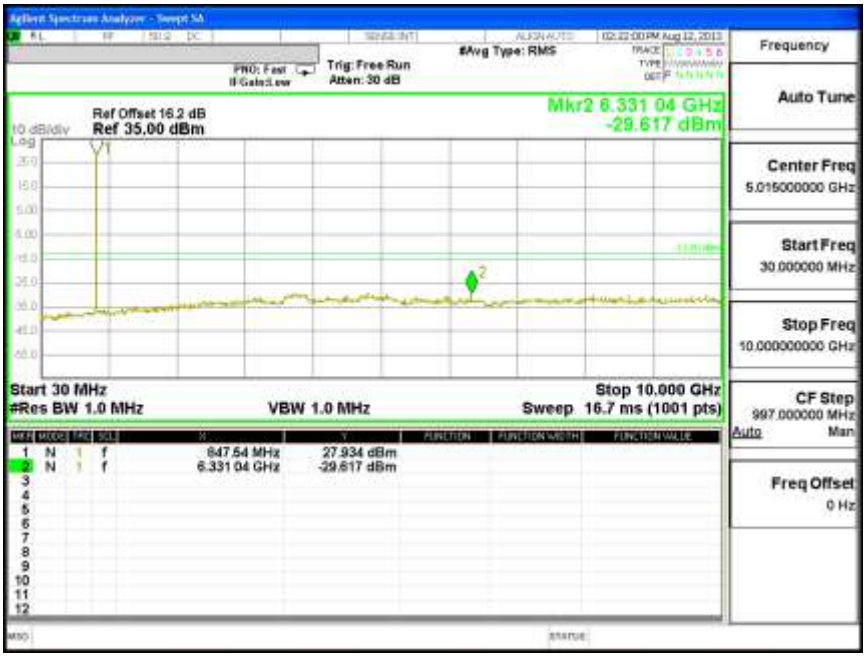
HIGH, RB1-0, 30 TO 10000 MHz



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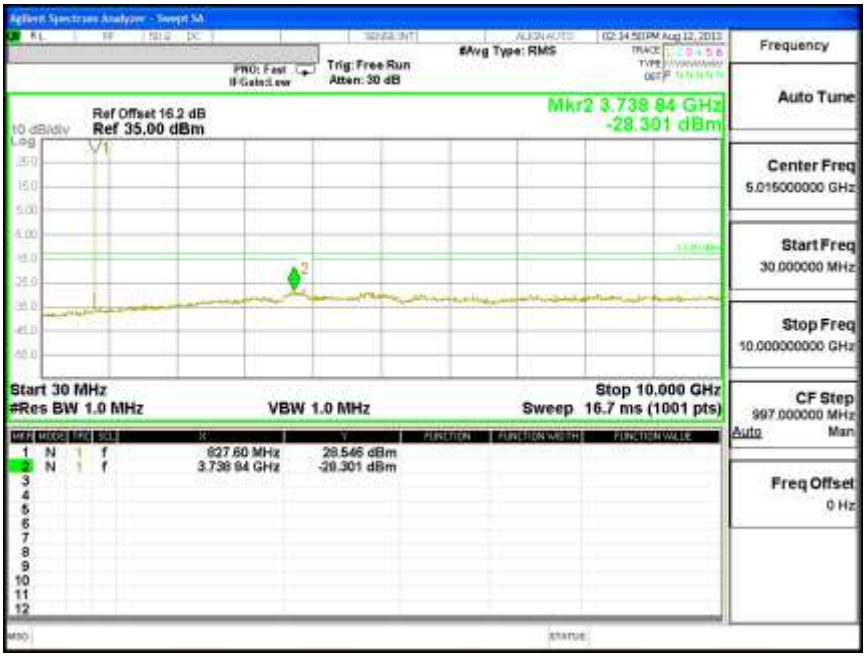
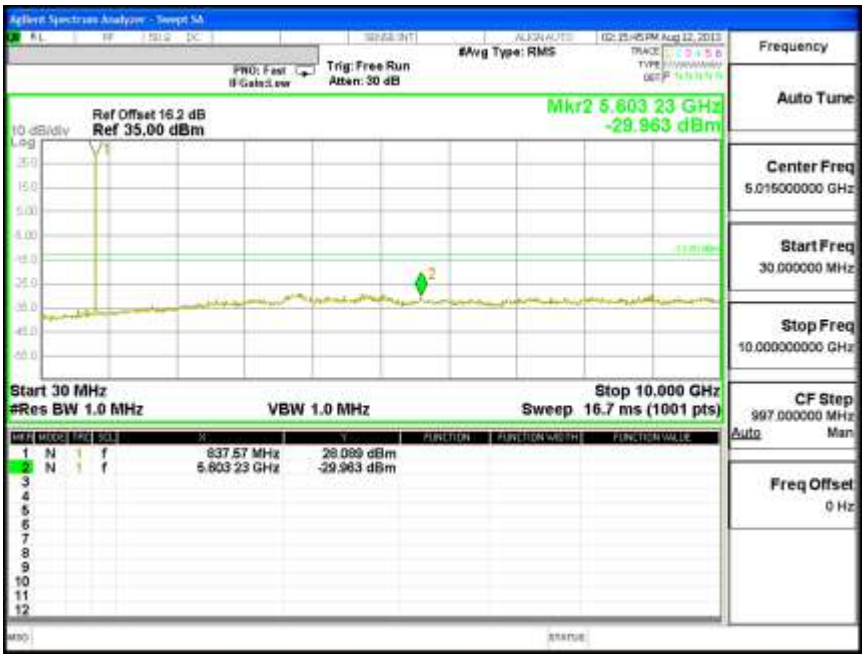
LTE 16QAM

LOW, RB1-0, 30 TO 10000 MHz



MID, RB1-0, 30 TO 10000 MHz



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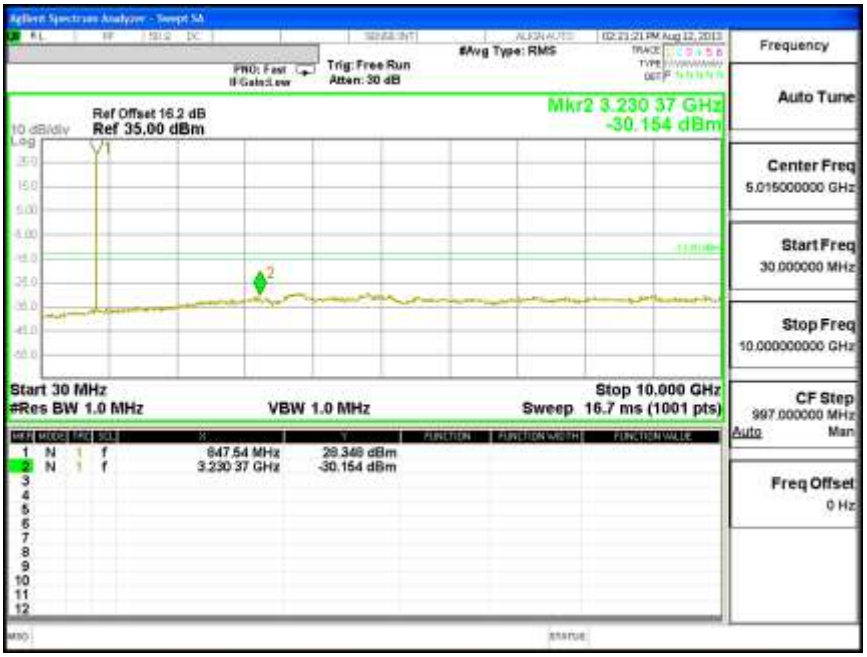
HIGH, RB1-0, 30 TO 10000 MHz



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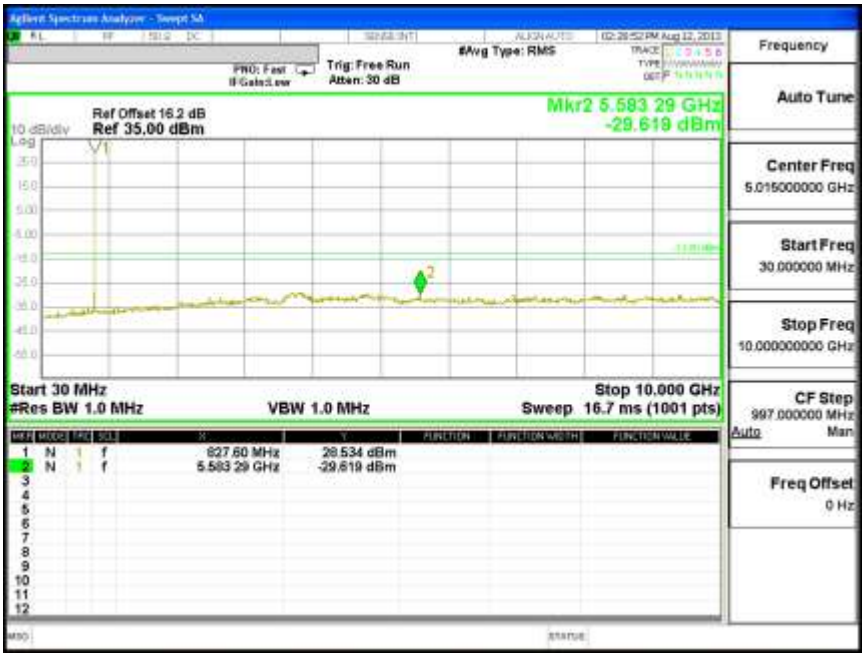
LTE QPSK, 3.0 MHz BAND WIDTH

LOW, RB1-0, 30 TO 10000 MHz



MID, RB1-0, 30 TO 10000 MHz

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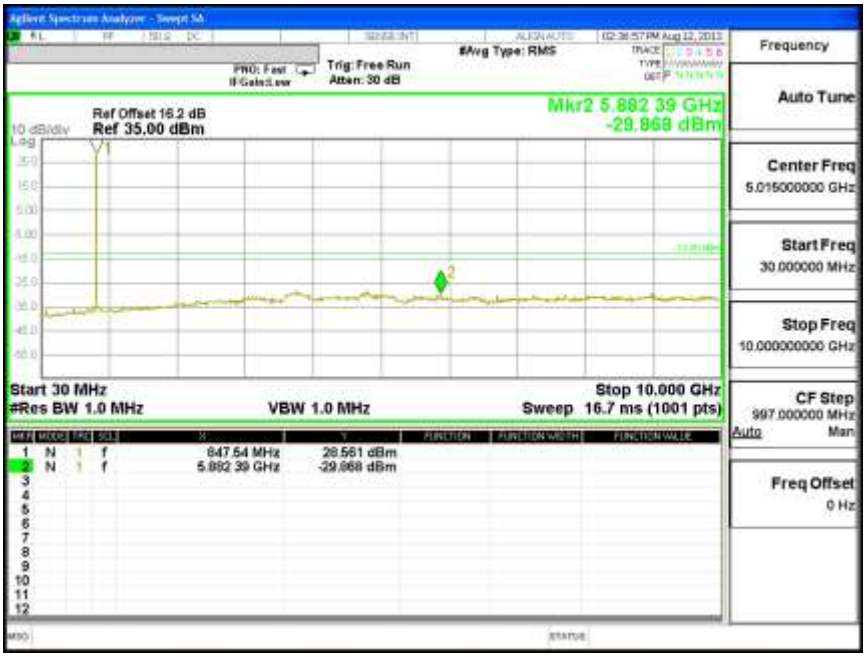
HIGH, RB1-0, 30 TO 10000 MHz



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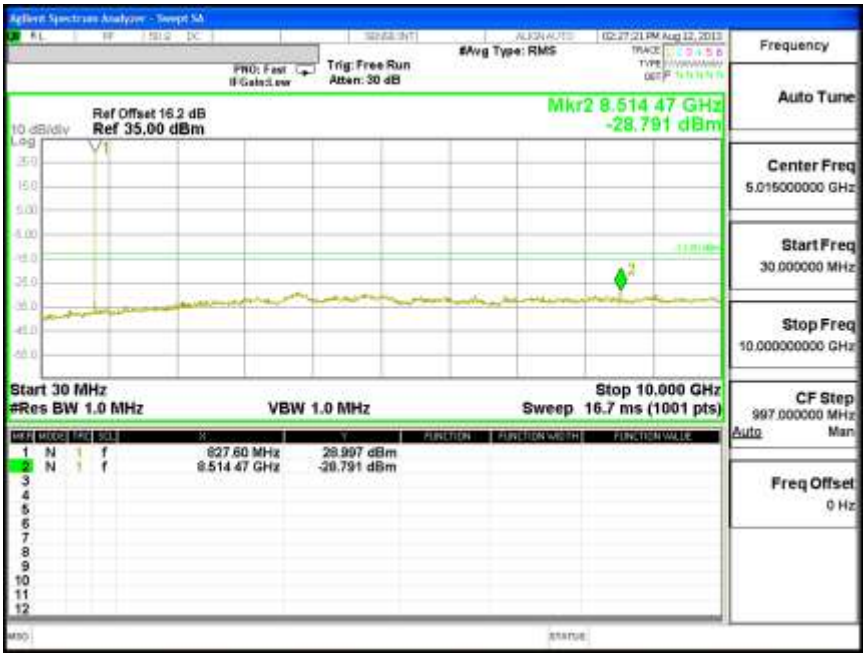
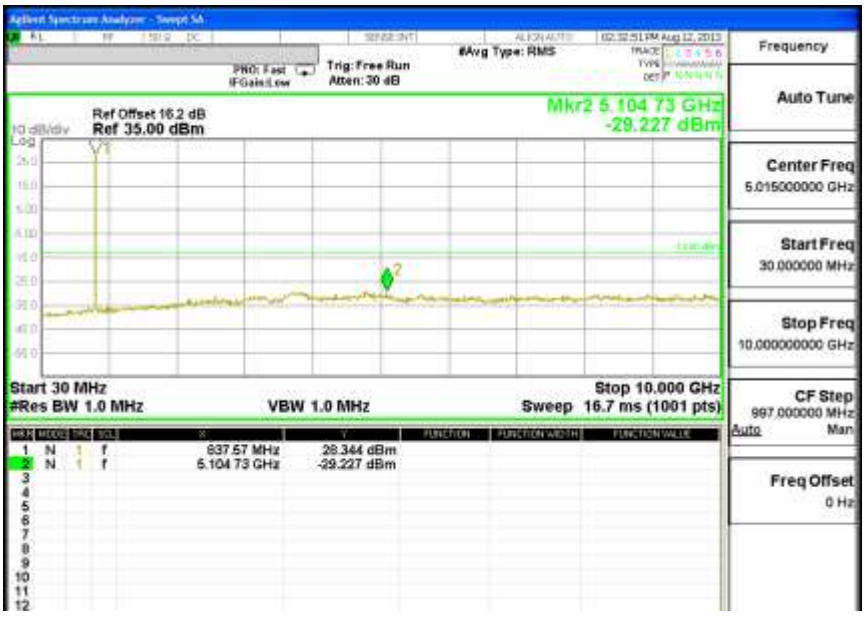
LTE 16QAM

LOW, RB1-0, 30 TO 10000 MHz



MID, RB1-0, 30 TO 10000 MHz



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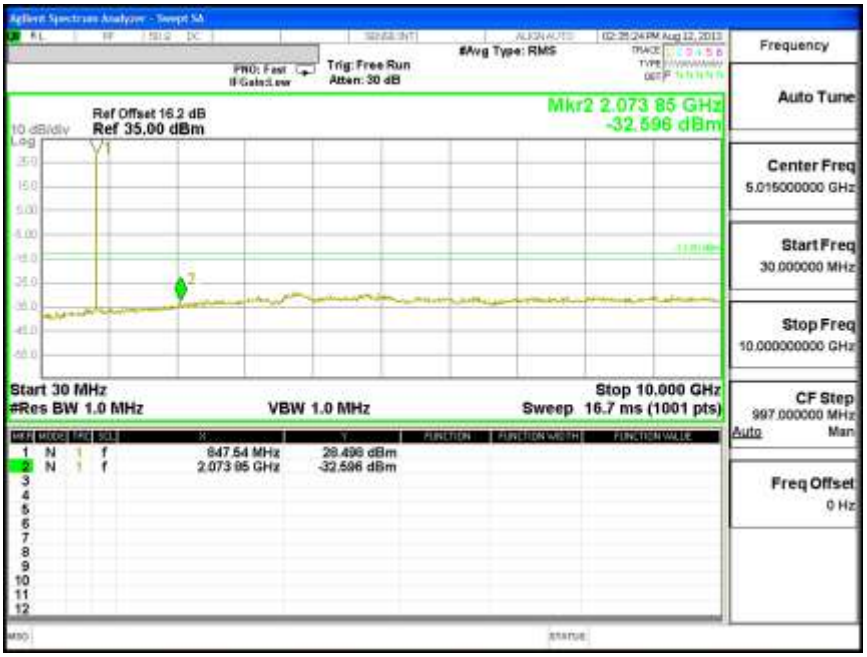
HIGH, RB1-0, 30 TO 10000 MHz



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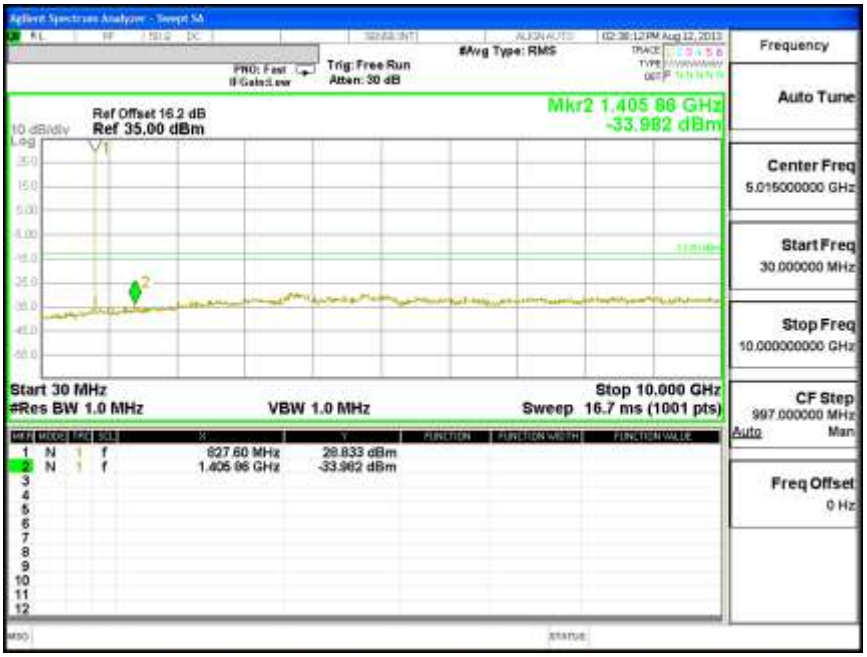
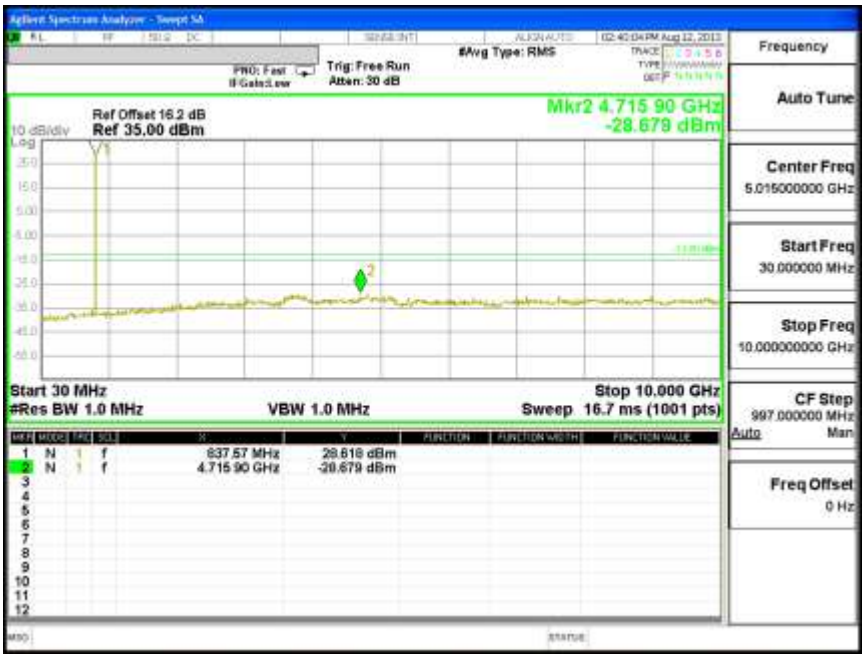
LTE QPSK, 5.0 MHz BAND WIDTH

LOW, RB1-0, 30 TO 10000 MHz



MID, RB1-0, 30 TO 10000 MHz



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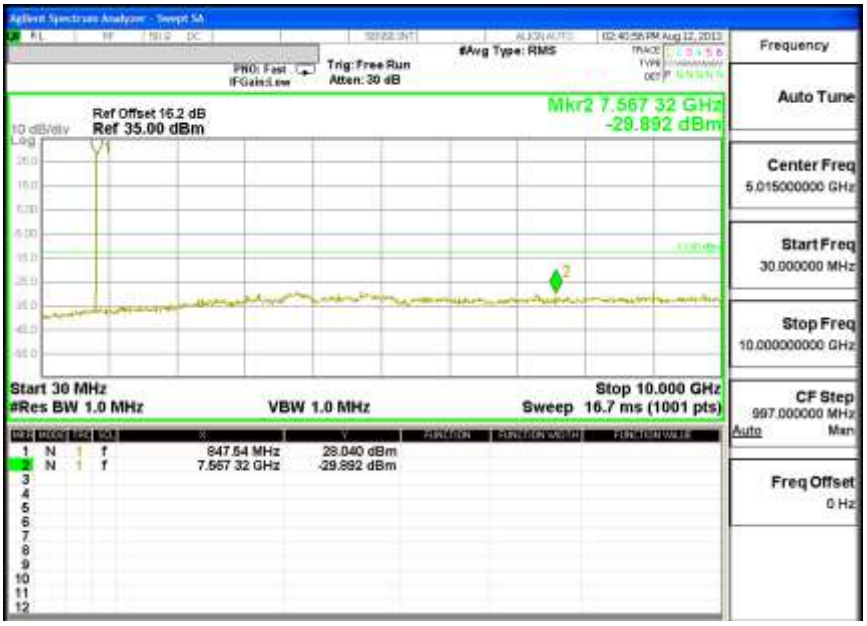
HIGH, RB1-0, 30 TO 10000 MHz



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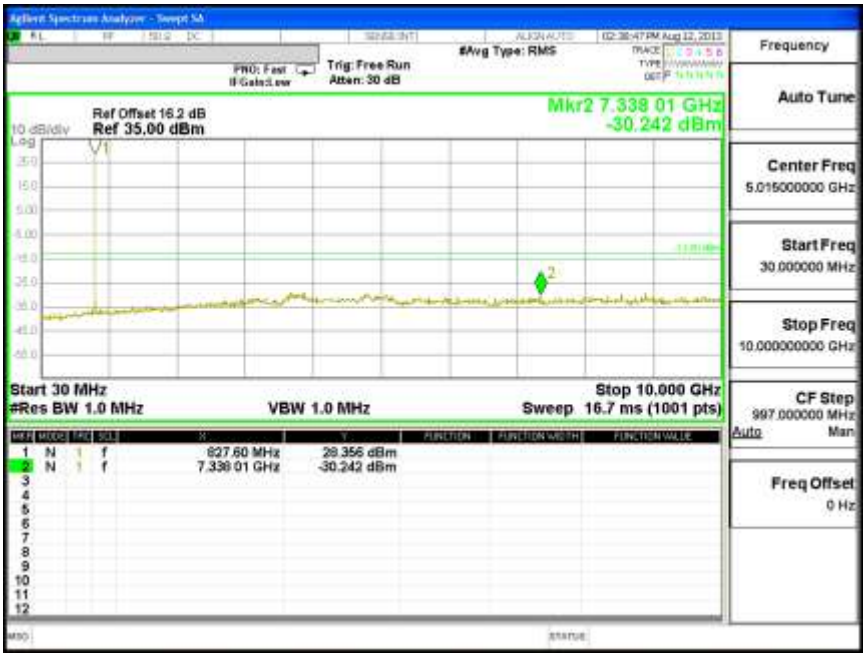
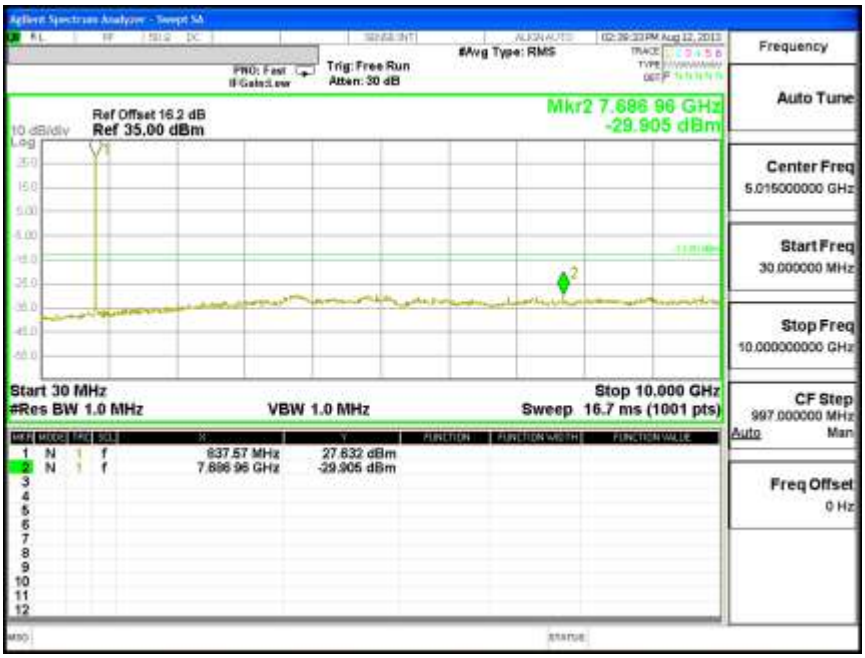
LTE 16QAM

LOW, RB1-0, 30 TO 10000 MHz



MID, RB1-0, 30 TO 10000 MHz



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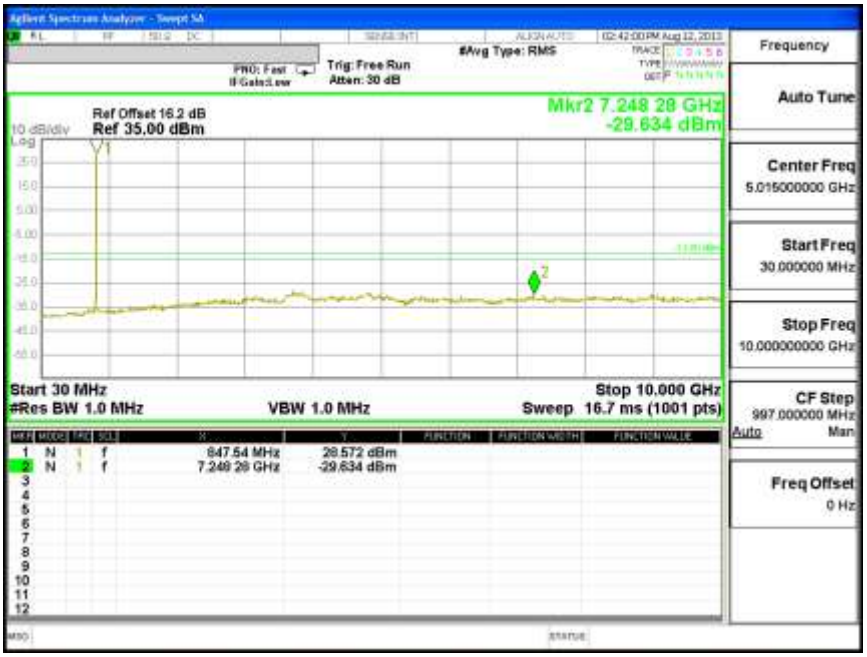
HIGH, RB1-0, 30 TO 10000 MHz



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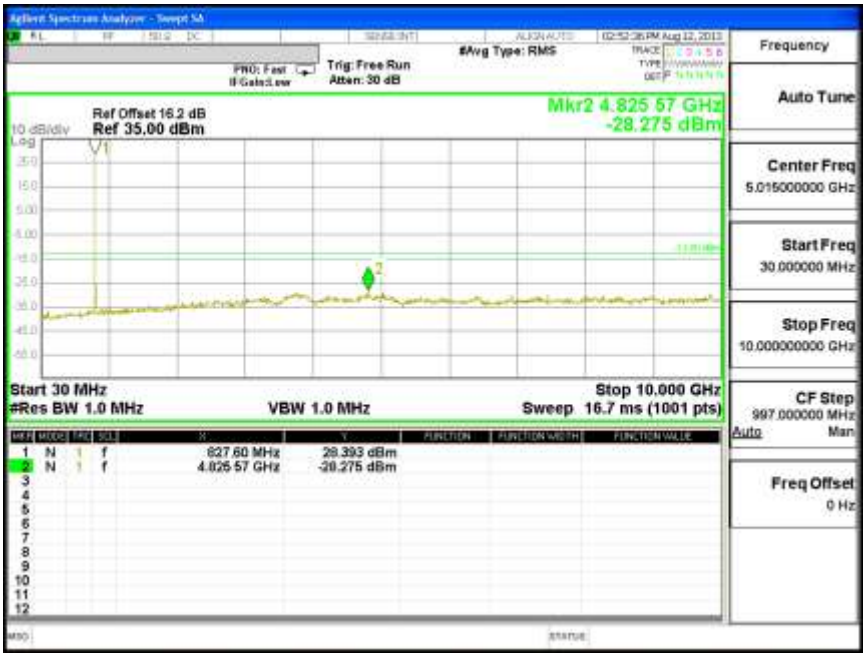
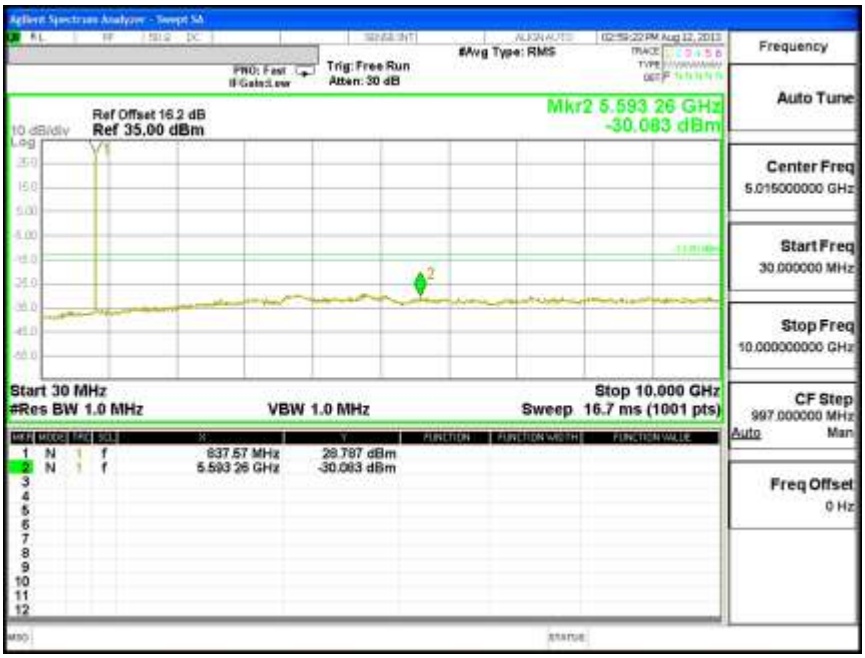
LTE QPSK, 10.0 MHz BAND WIDTH

LOW, RB1-0, 30 TO 10000 MHz



MID, RB1-0, 30 TO 10000 MHz



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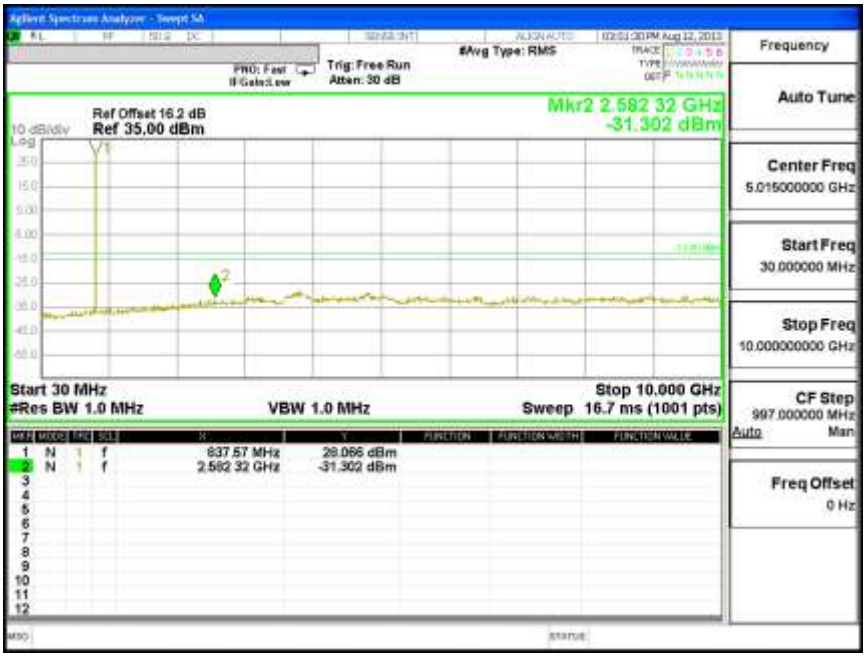
HIGH, RB1-0, 30 TO 10000 MHz



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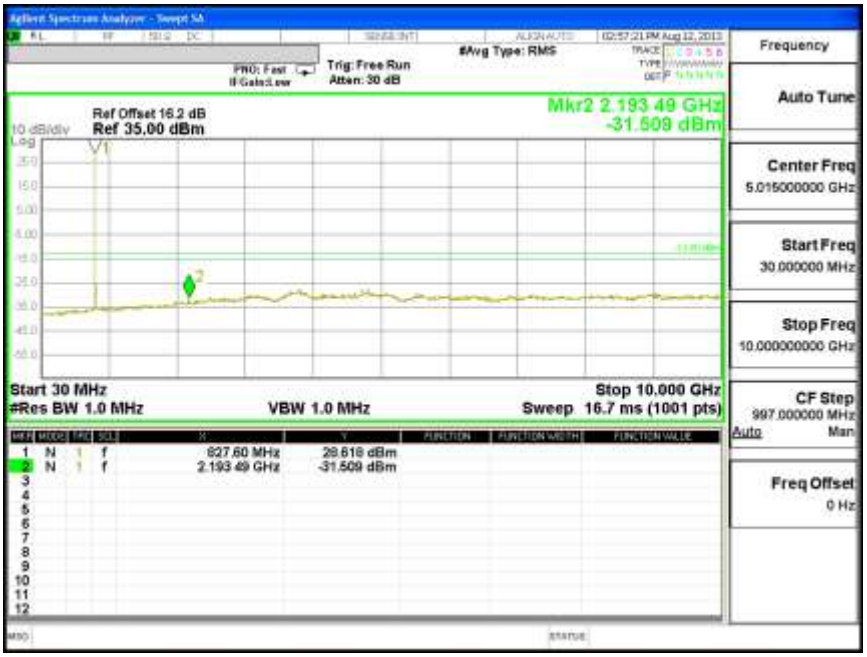
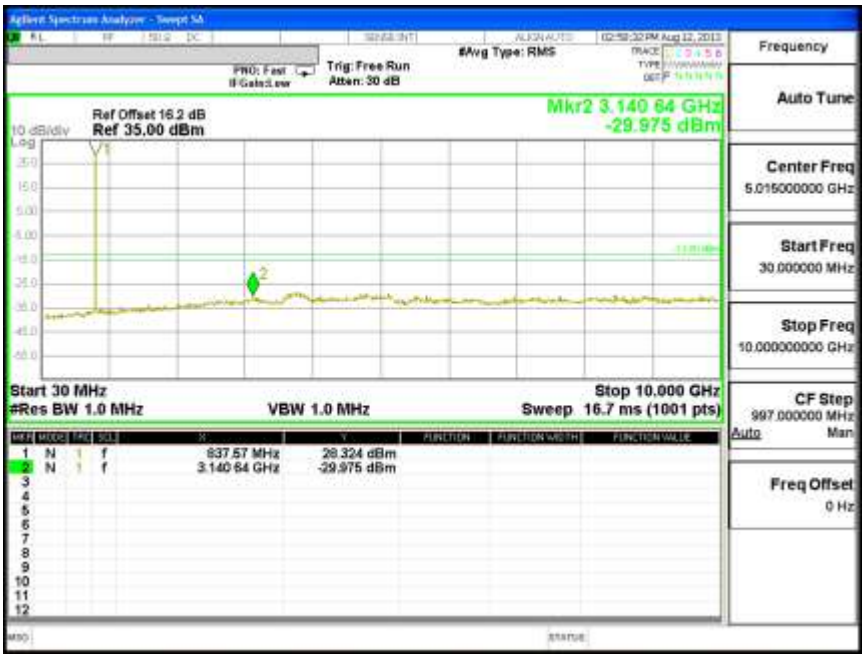
LTE 16QAM

LOW, RB1-0, 30 TO 10000 MHz



MID, RB1-0, 30 TO 10000 MHz



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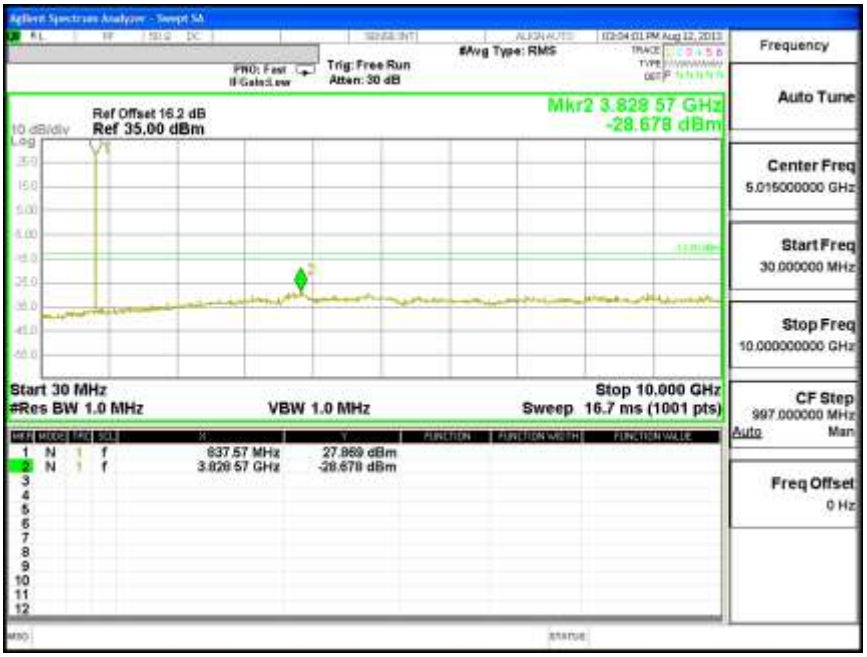
HIGH, RB1-0, 30 TO 10000 MHz



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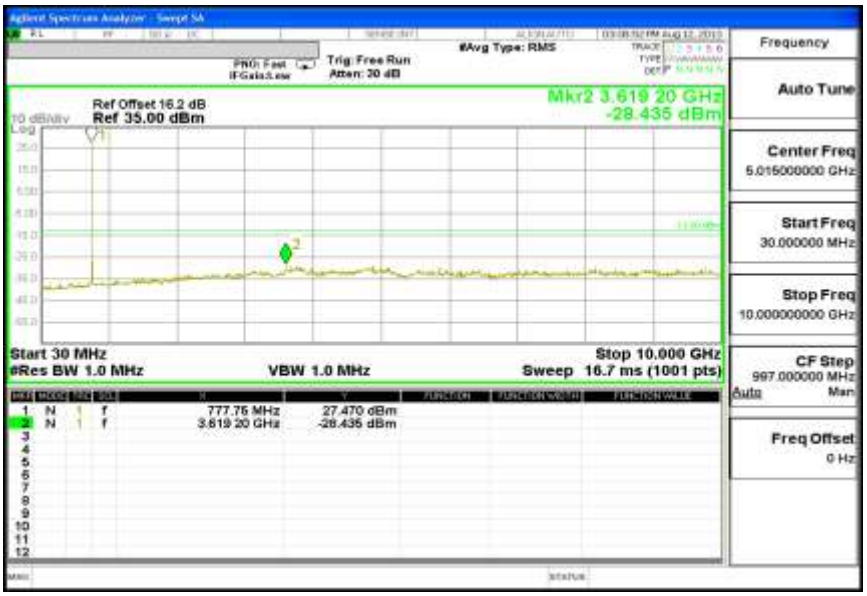
8.3.4. LTE BAND 13

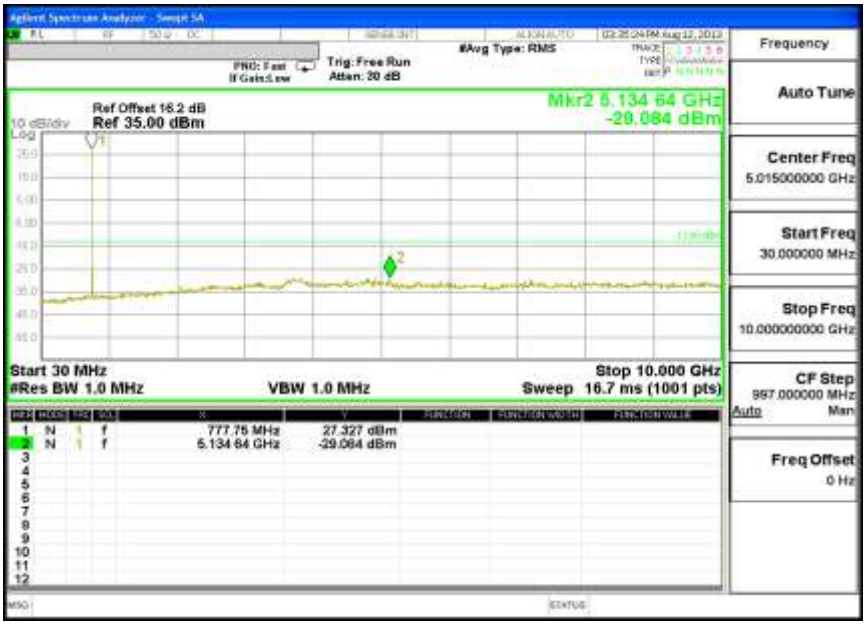
LTE QPSK, 779.5 (5.0 MHz BAND WIDTH)

LOW, RB1-0, 30 TO10000 MHz



LTE 16QAM

LOW, RB1-0, 30 TO 10000 MHz



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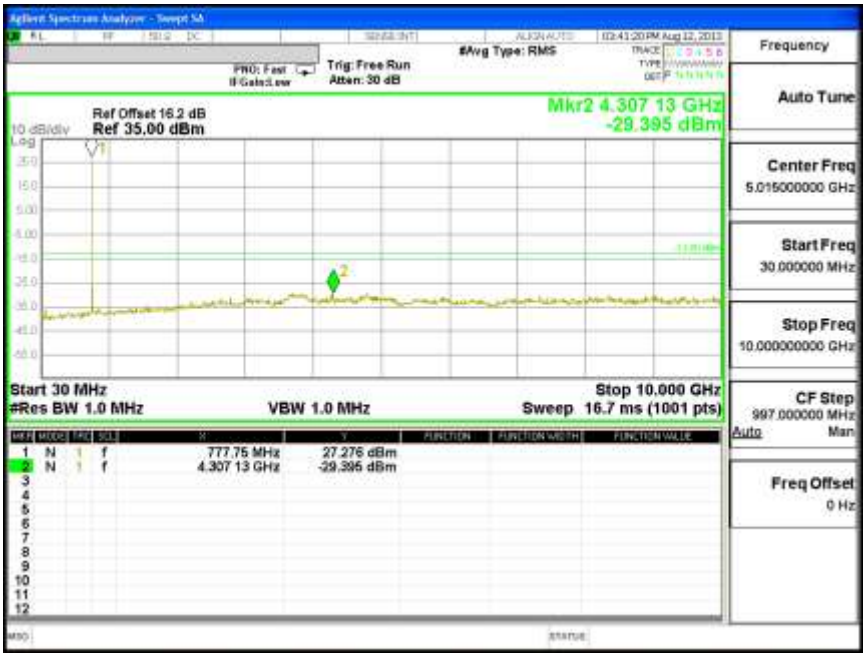
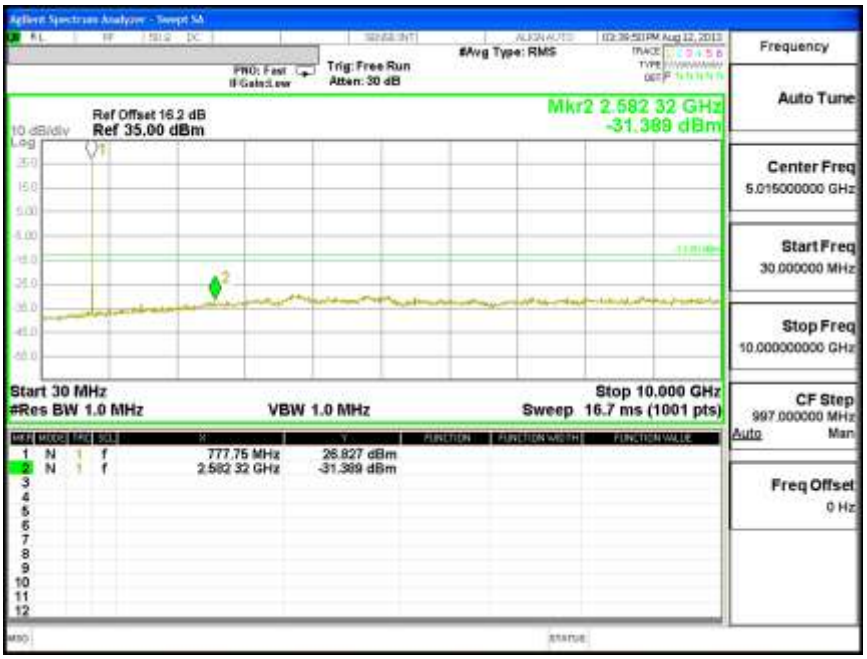
LTE QPSK, 782MHz (5.0 MHz BAND WIDTH)

RB1-0, 30 TO 10000 MHz



LTE 16QAM

RB1-0, 30 TO 10000 MHz



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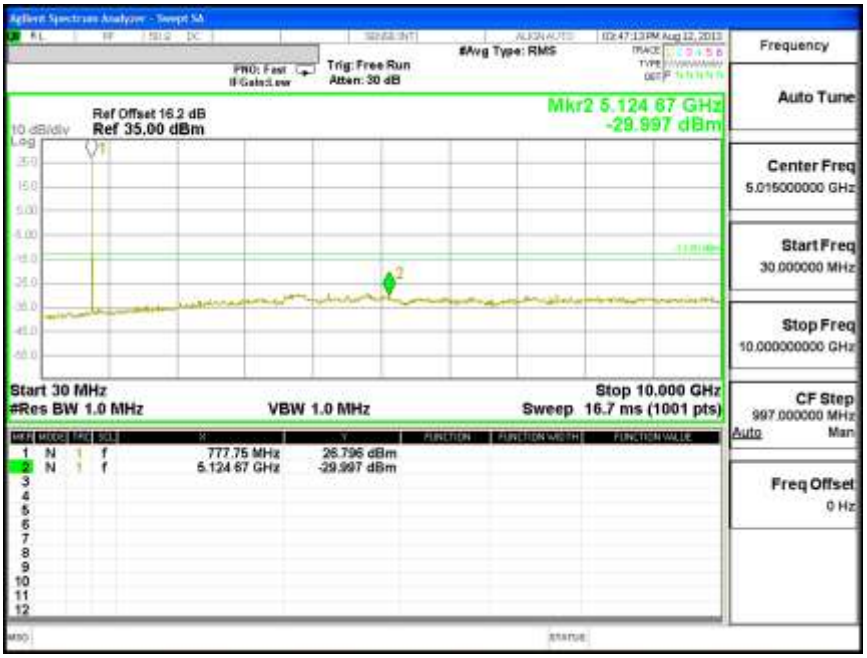
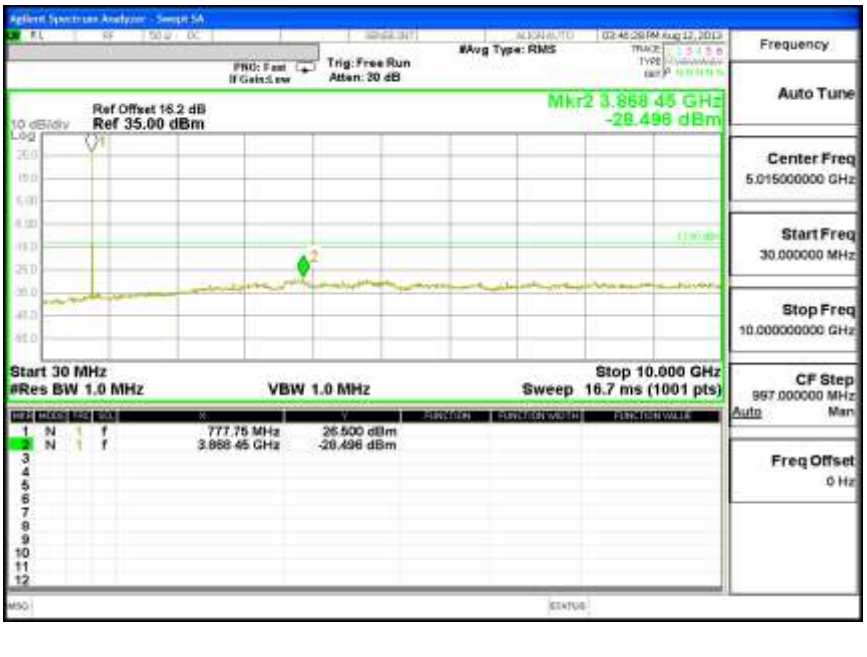
LTE QPSK Band 13, 784.5MHz (5MHz Bandwidth)

RB1-0, 30 TO 10000 MHz



LTE 16QAM Band 13, 784.5MHz (5MHz Bandwidth)

RB1-0, 30 TO 10000 MHz



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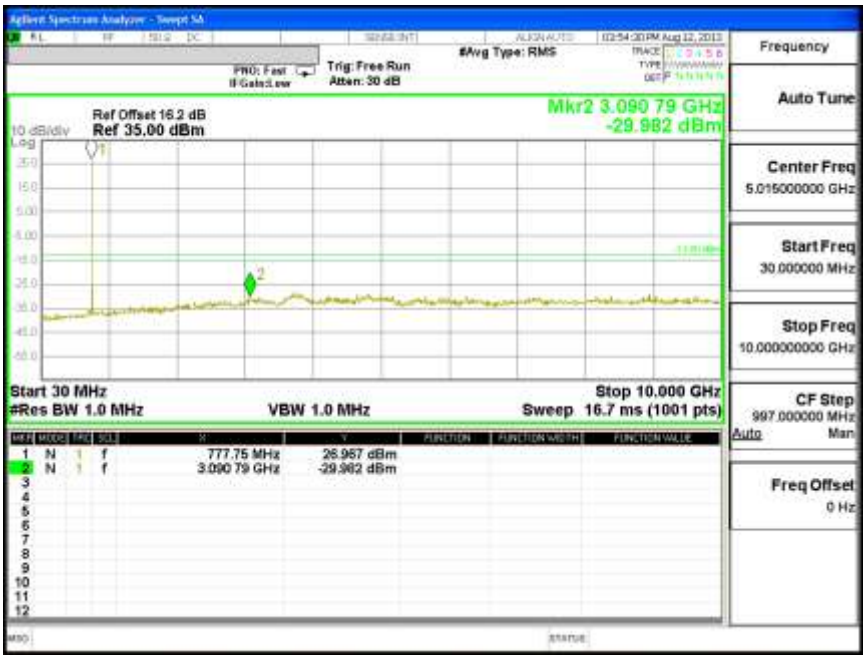
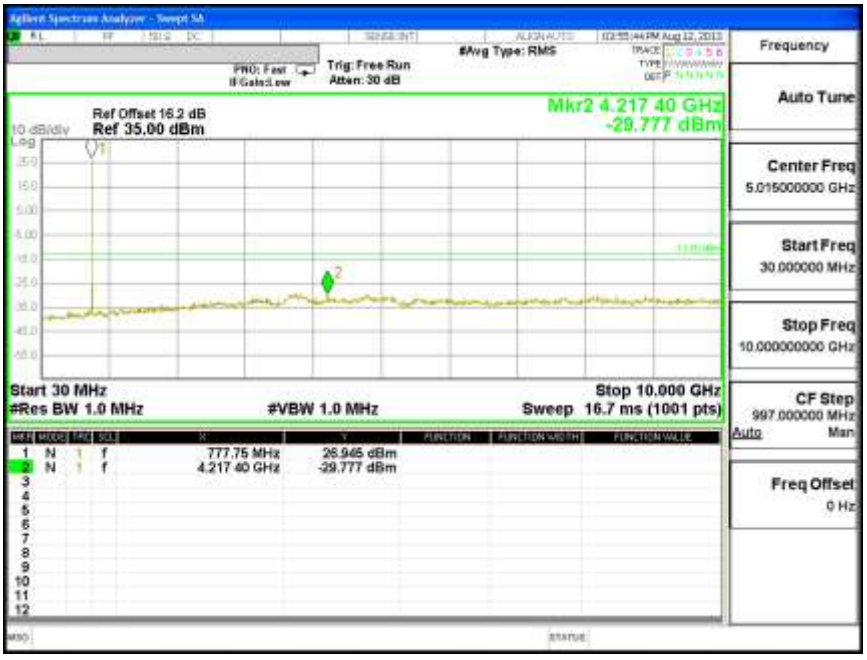
LTE QPSK Band 13, 782MHz (10MHz Bandwidth)

RB1-0, 30 TO 10000MHz



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

RB1-0, 30 TO 10000 MHz



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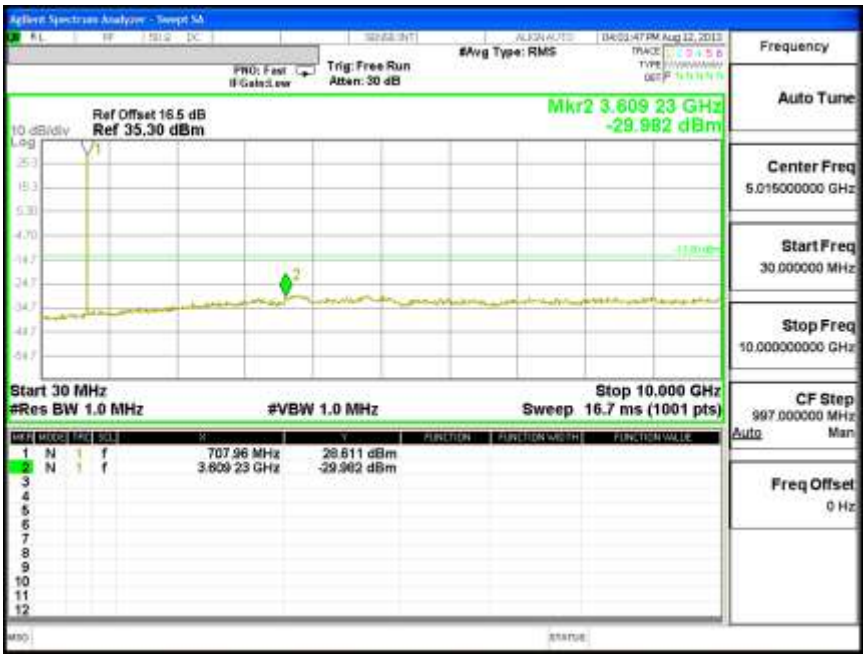
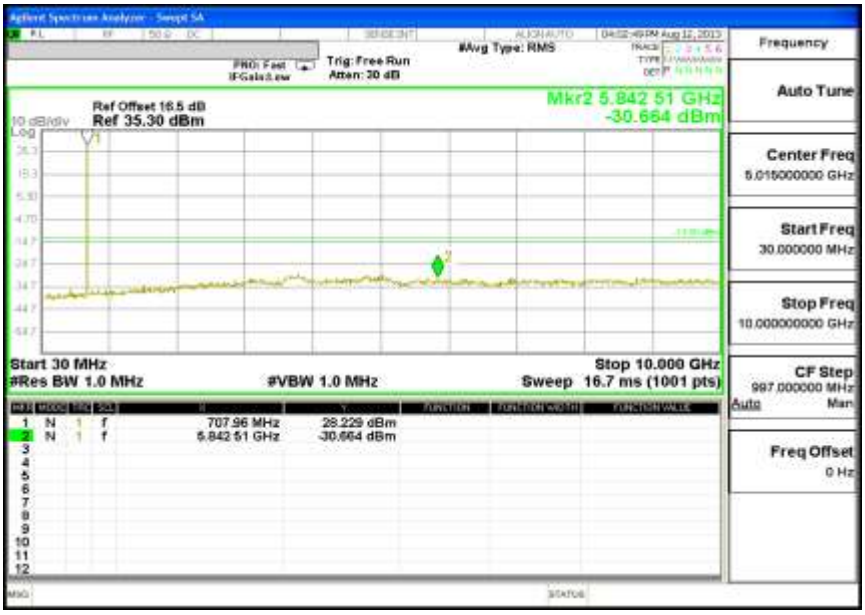
8.3.5. LTE BAND 17

LTE QPSK (5.0 MHz BAND WIDTH)

LOW, RB1-0, 30 TO 20000 MHz



MID, RB1-0, 30 TO 20000 MHz



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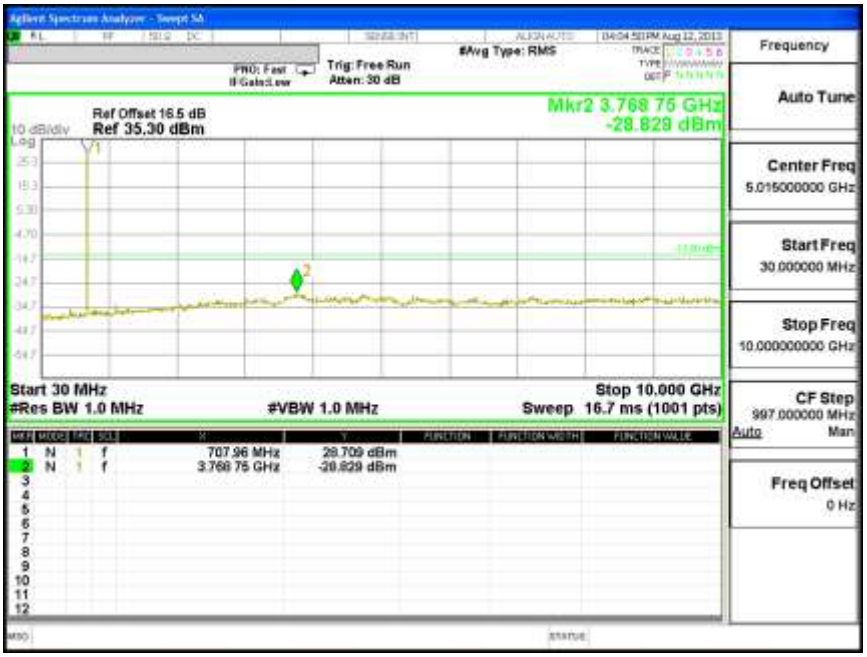
HIGH, RB1-0, 30 TO 20000 MHz



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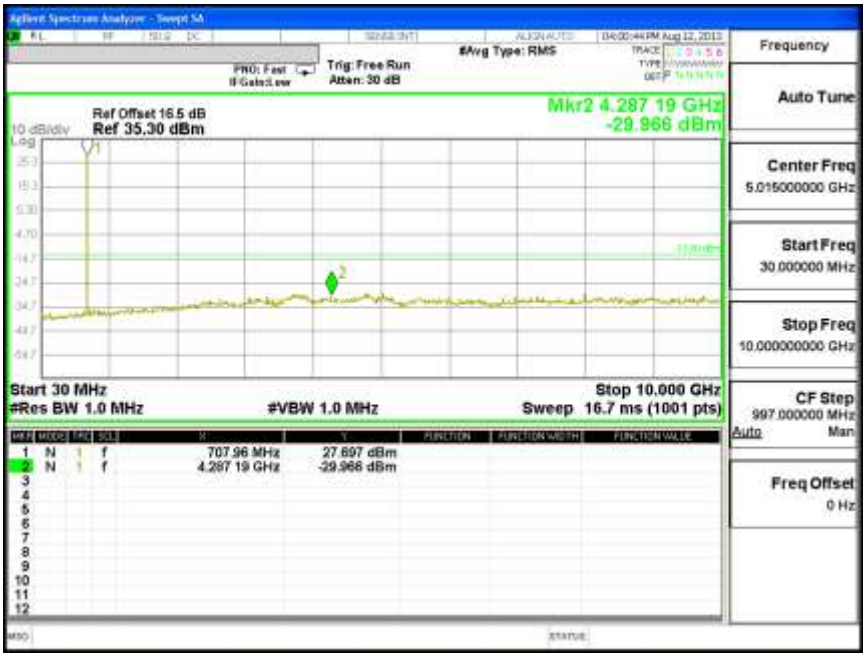
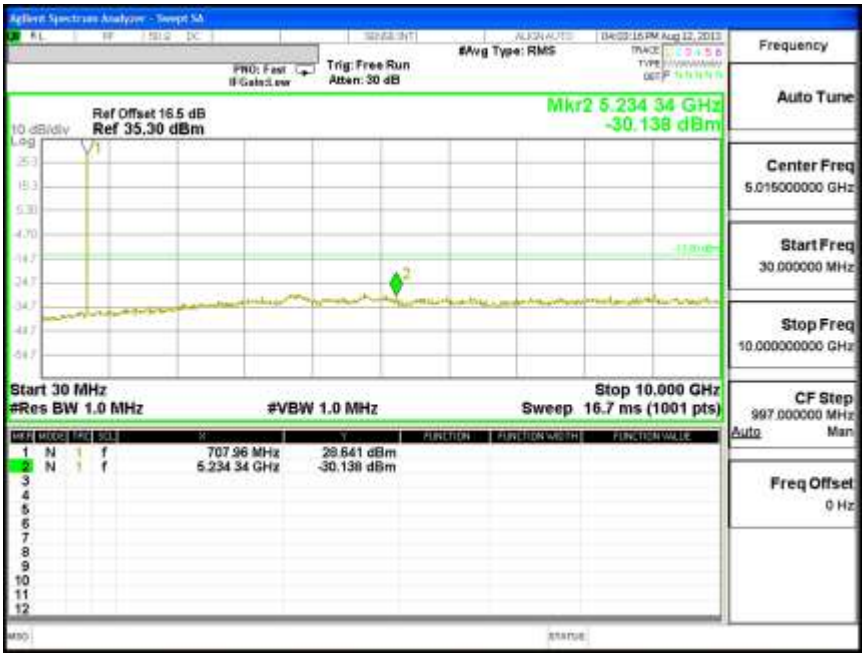
LTE 16QAM

LOW, RB1-0, 30 TO 20000 MHz



MID, RB1-0, 30 TO 20000 MHz



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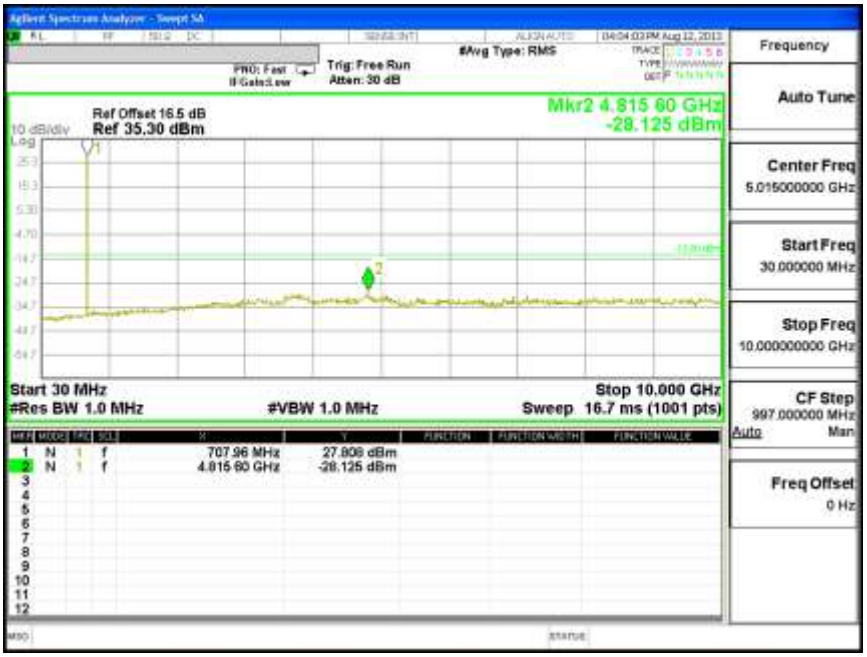
HIGH, RB1-0, 30 TO 20000 MHz



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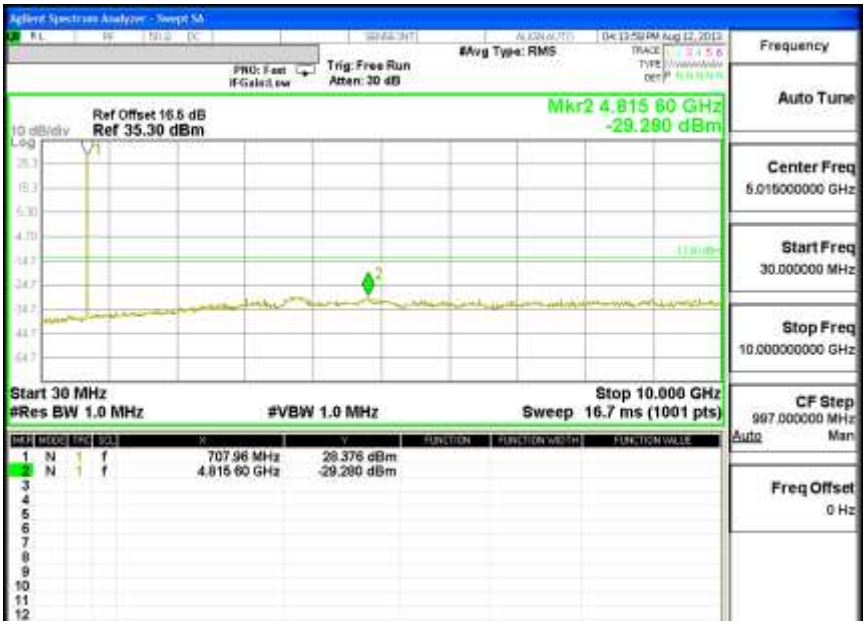
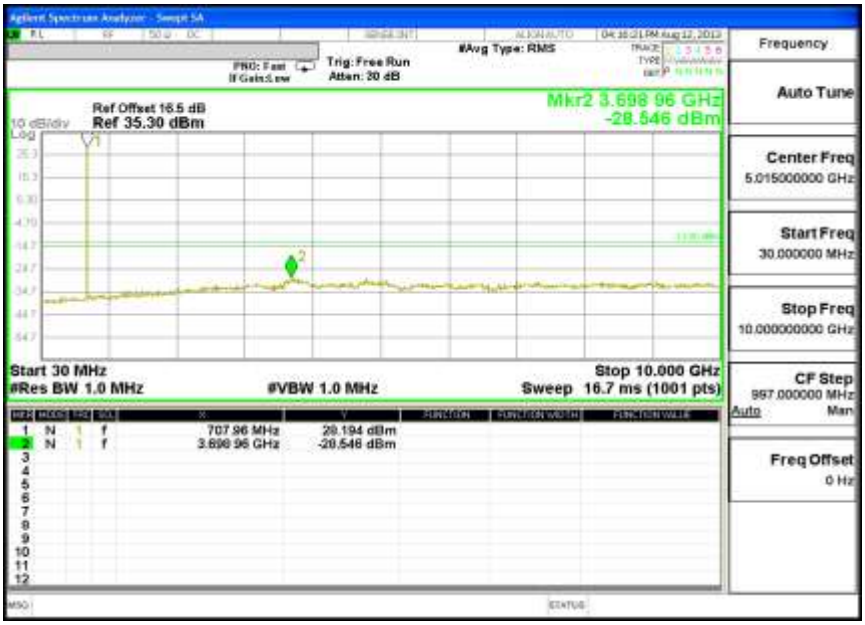
Band 17 (10.0 MHz BAND WIDTH)

LTE QPSK

LOW, RB1-0, 30 TO 20000 MHz



MID, RB1-0, 30 TO 20000 MHz



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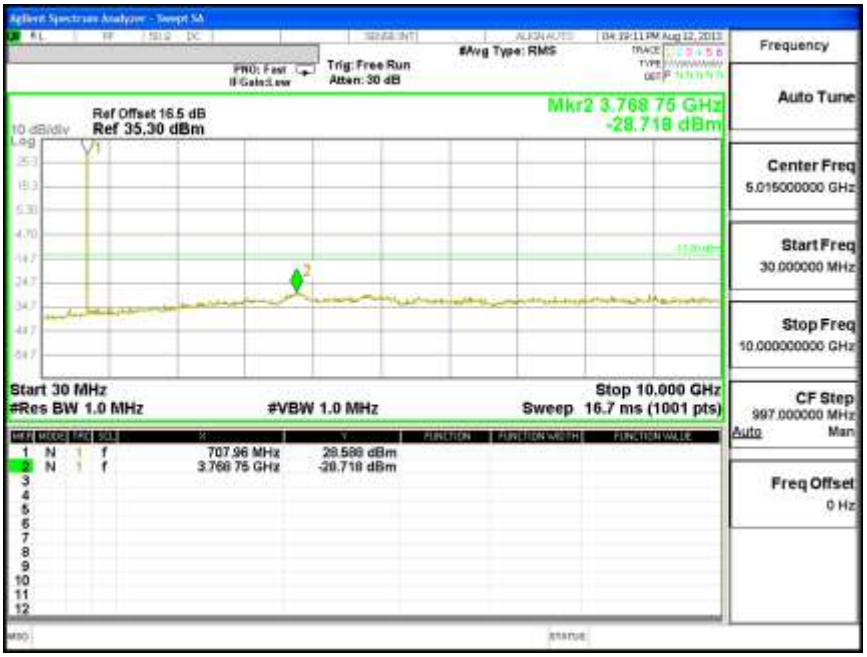
HIGH, RB1-0, 30 TO 20000 MHz



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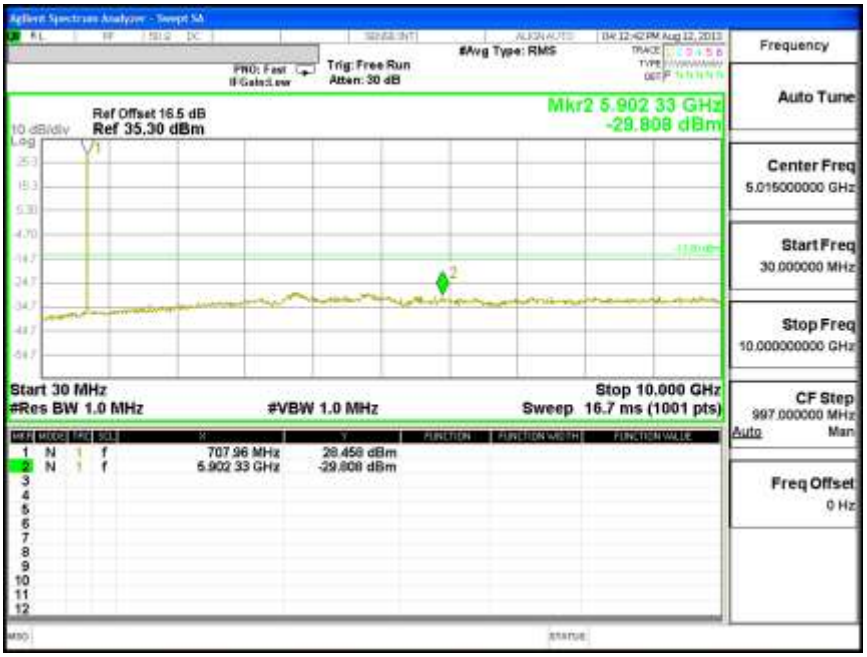
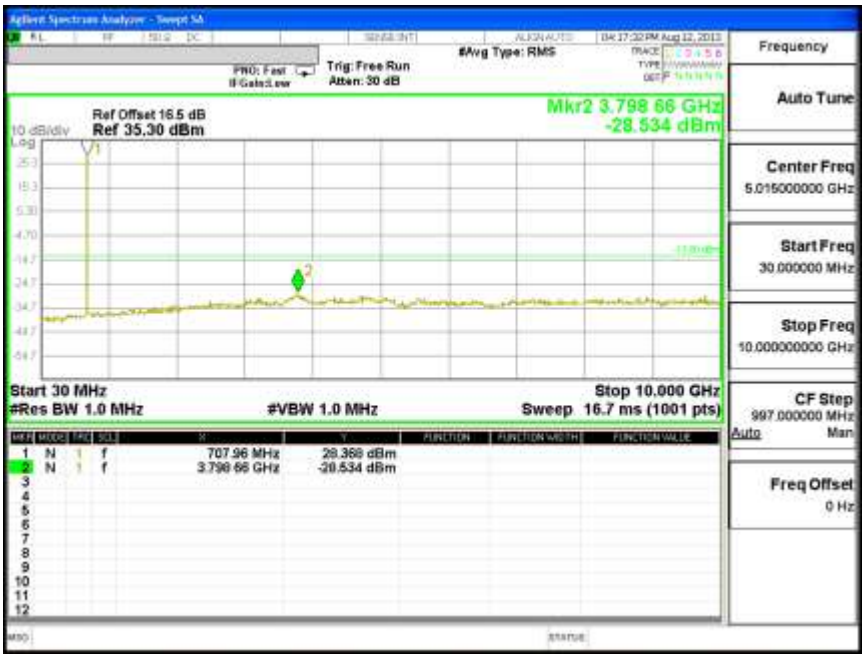
LTE 16QAM

LOW, RB1-0, 30 TO 20000 MHz



MID, RB1-0, 30 TO 20000 MHz



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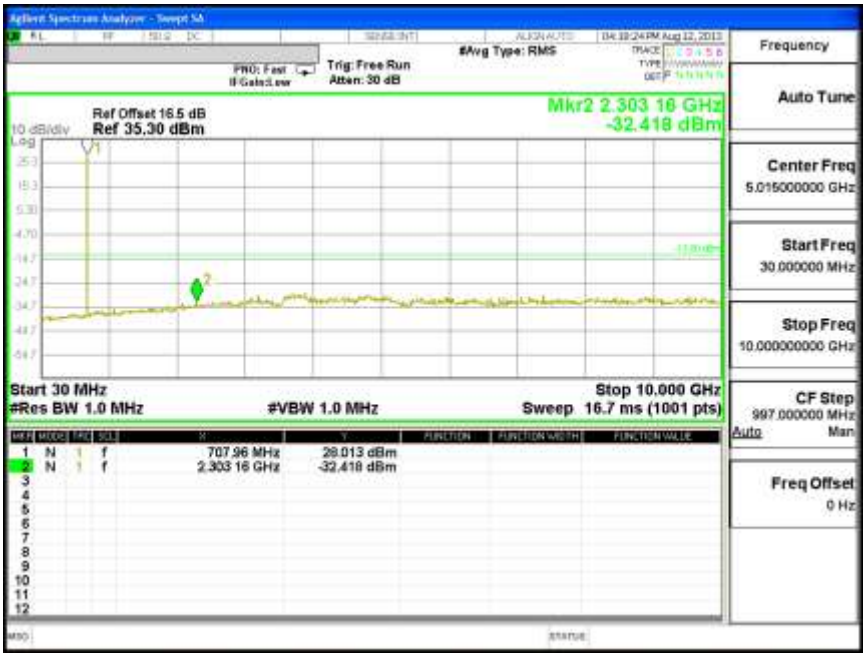
HIGH, RB1-0, 30 TO 20000 MHz



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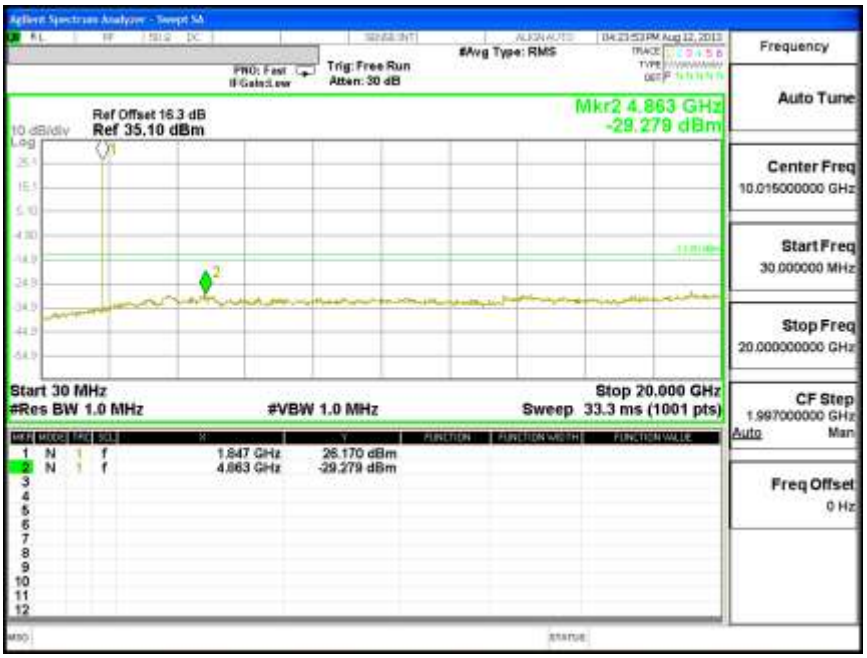
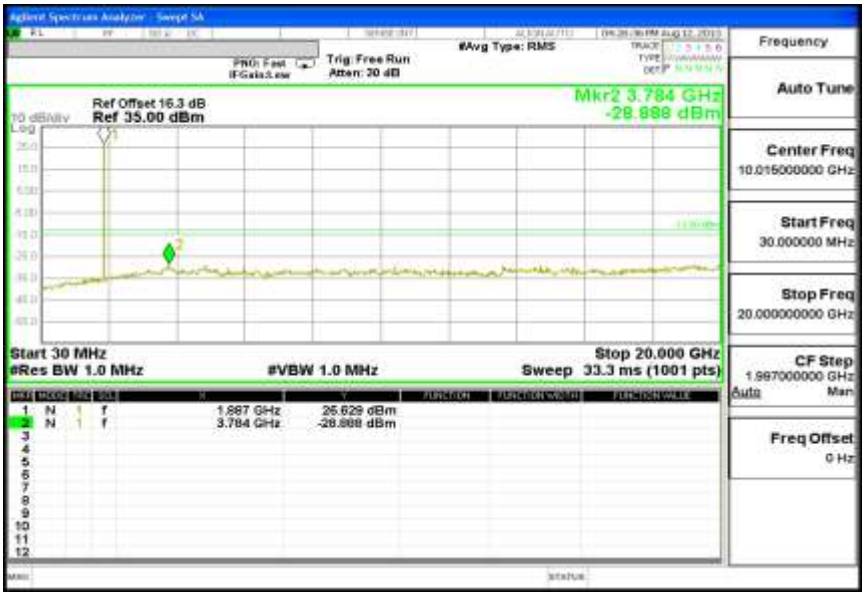
8.3.6. LTE BAND 25

LTE QPSK (1.4 MHz BAND WIDTH)

LOW, RB1-0, 30 TO 20000 MHz



MID, RB1-0, 30 TO 20000 MHz



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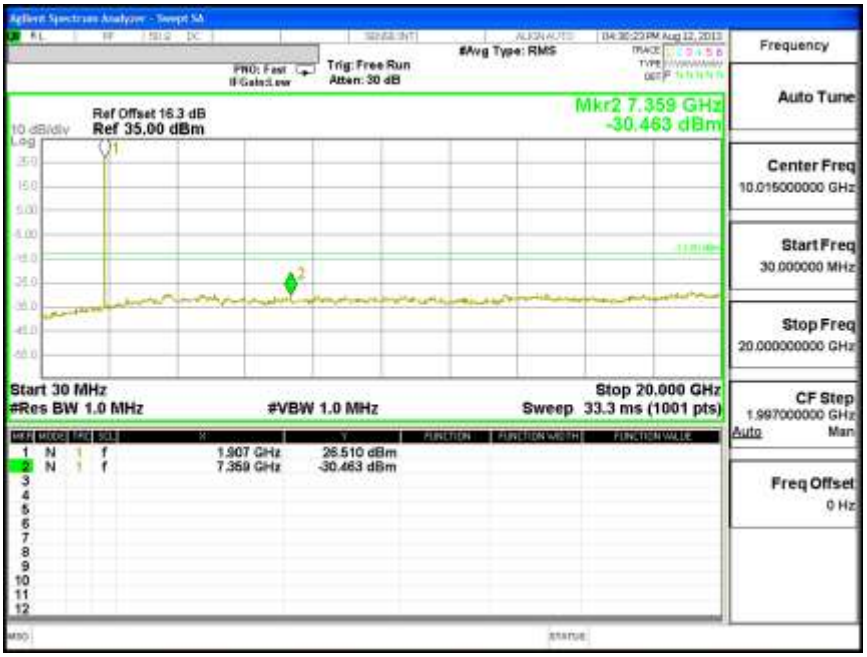
HIGH, RB1-0, 30 TO 20000 MHz



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LTE 16QAM

LOW, RB1-0, 30 TO 20000 MHz

MID, RB1-0, 30 TO 20000 MHz

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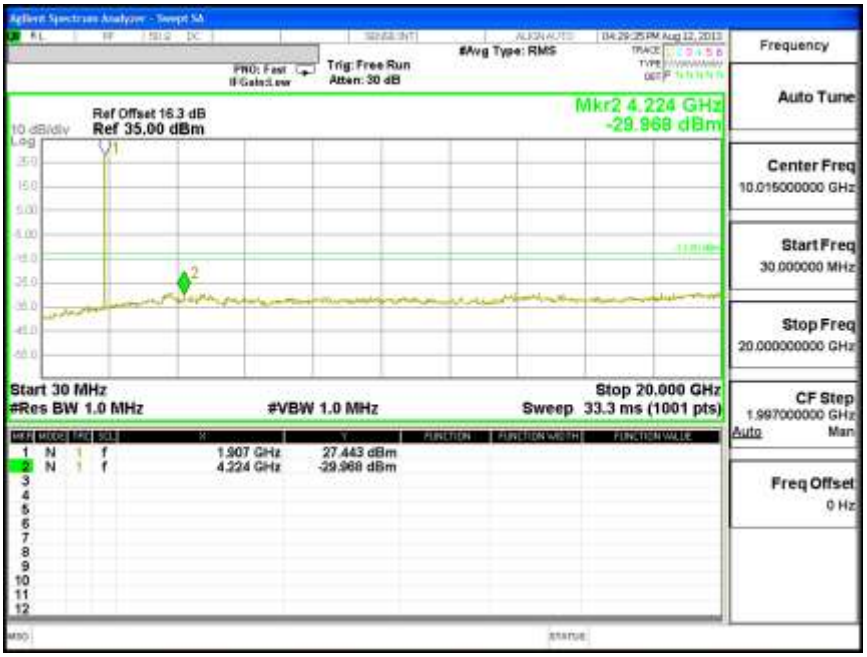
HIGH, RB1-0, 30 TO 20000 MHz



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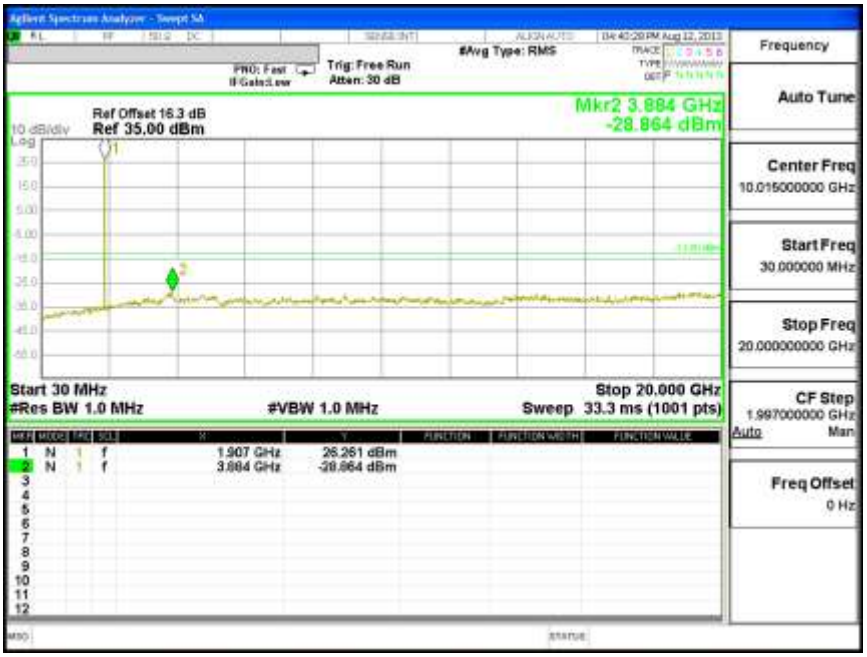
LTE QPSK (3.0 MHz BAND WIDTH)

LOW, RB1-0, 30 TO 20000 MHz

MID, RB1-0, 30 TO 20000 MHz

This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.

HIGH, RB1-0, 30 TO 20000 MHz



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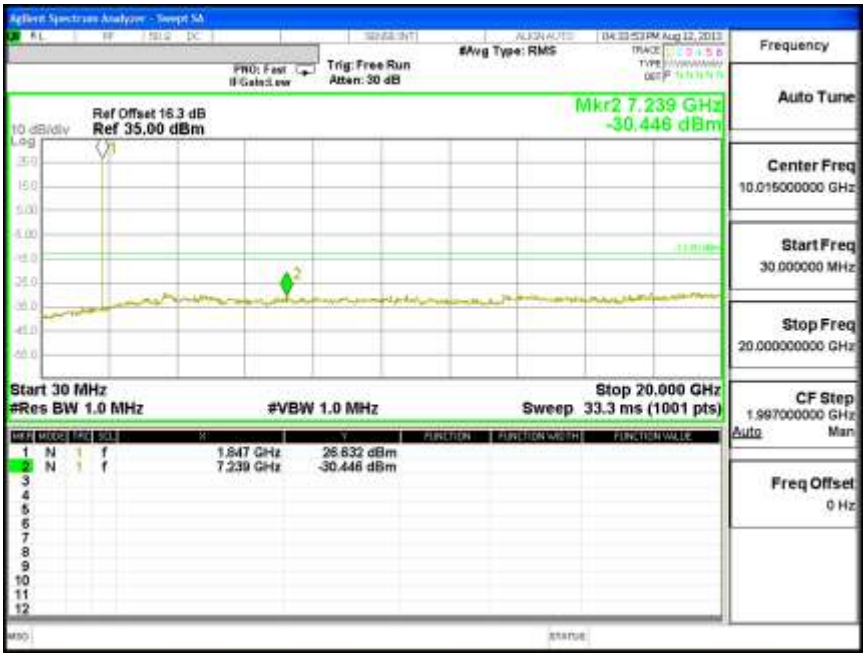
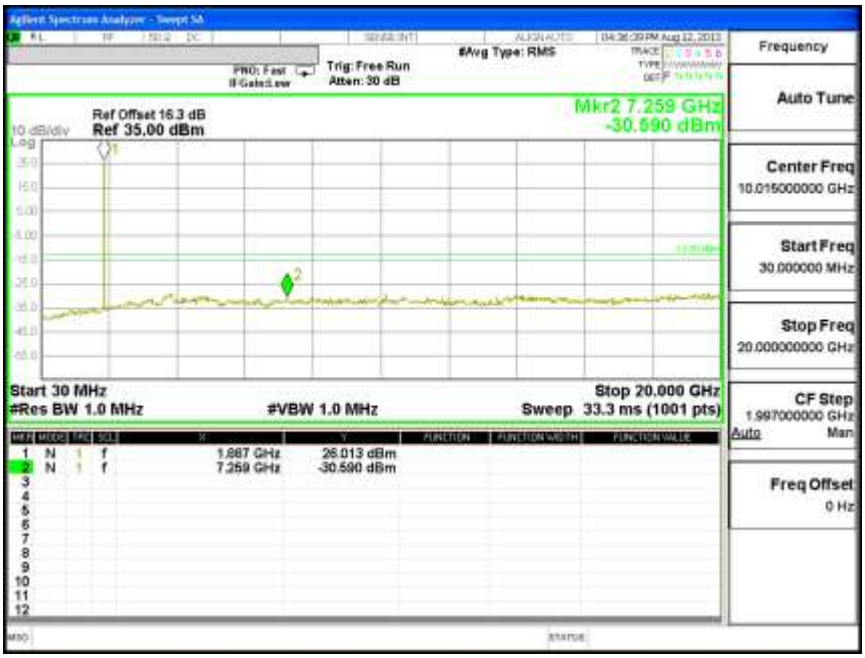
LTE 16QAM

LOW, RB1-0, 30 TO 20000 MHz



MID, RB1-0, 30 TO 20000 MHz



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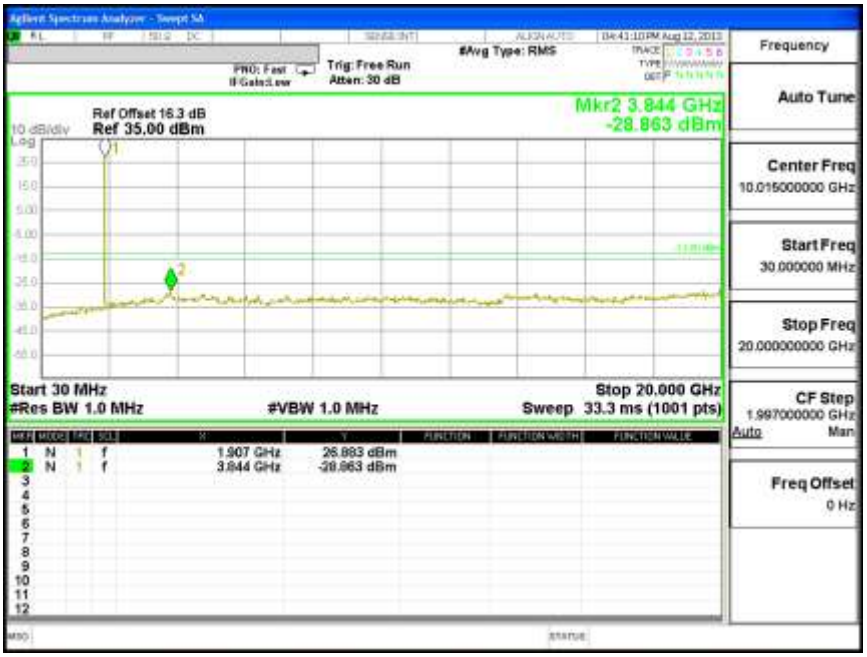
HIGH, RB1-0, 30 TO 20000 MHz



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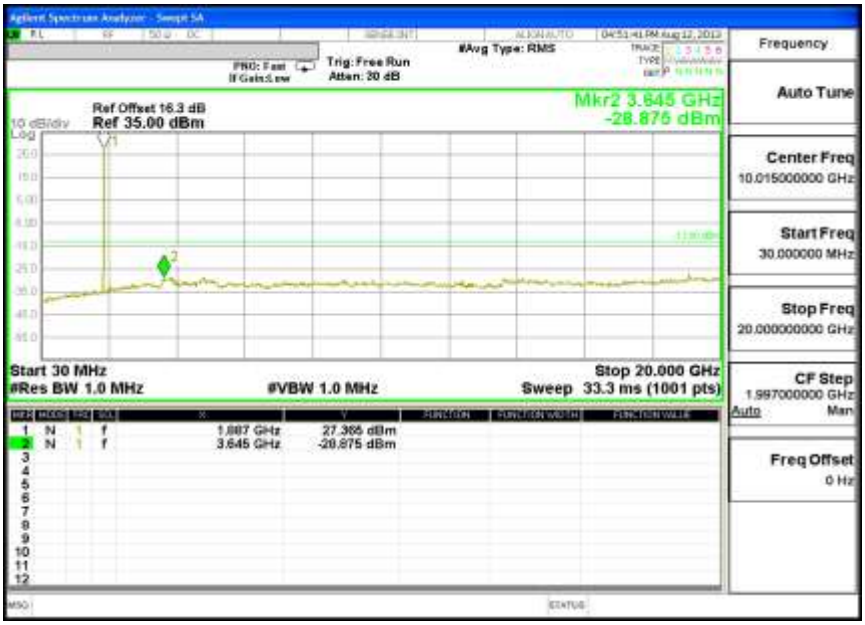
LTE QPSK (5.0 MHz BAND WIDTH)

LOW, RB1-0, 30 TO 20000 MHz

MID, RB1-0, 30 TO 20000 MHz



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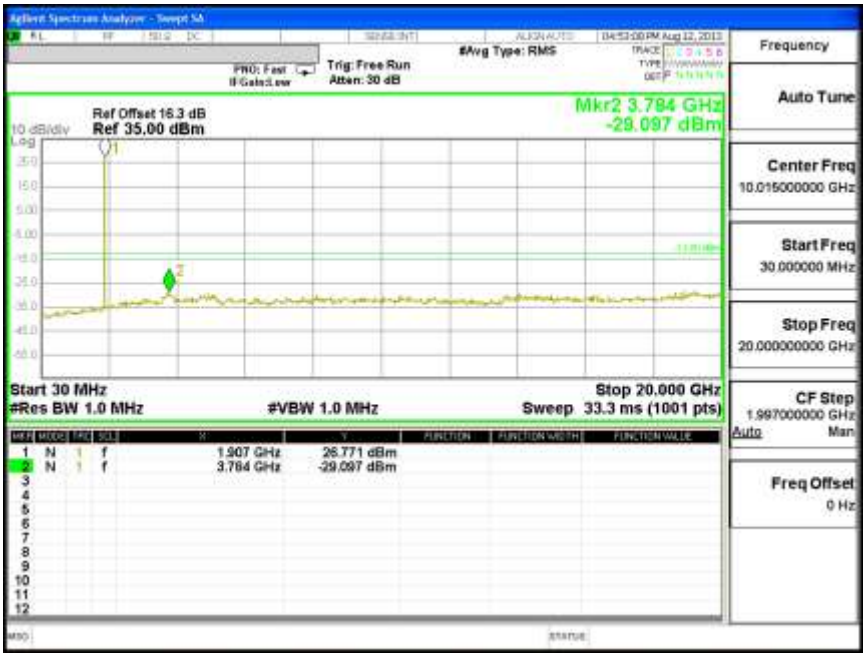
HIGH, RB1-0, 30 TO 20000 MHz



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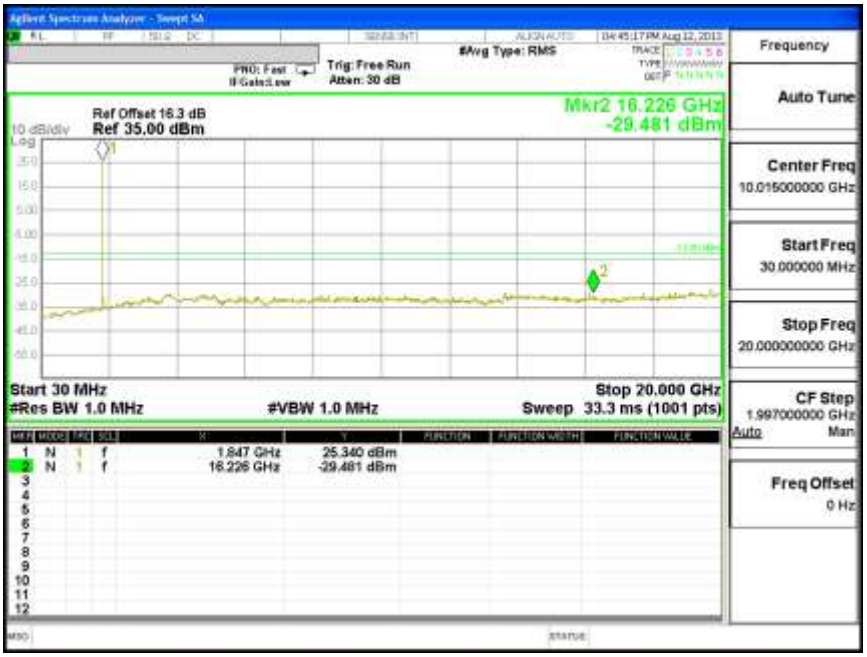
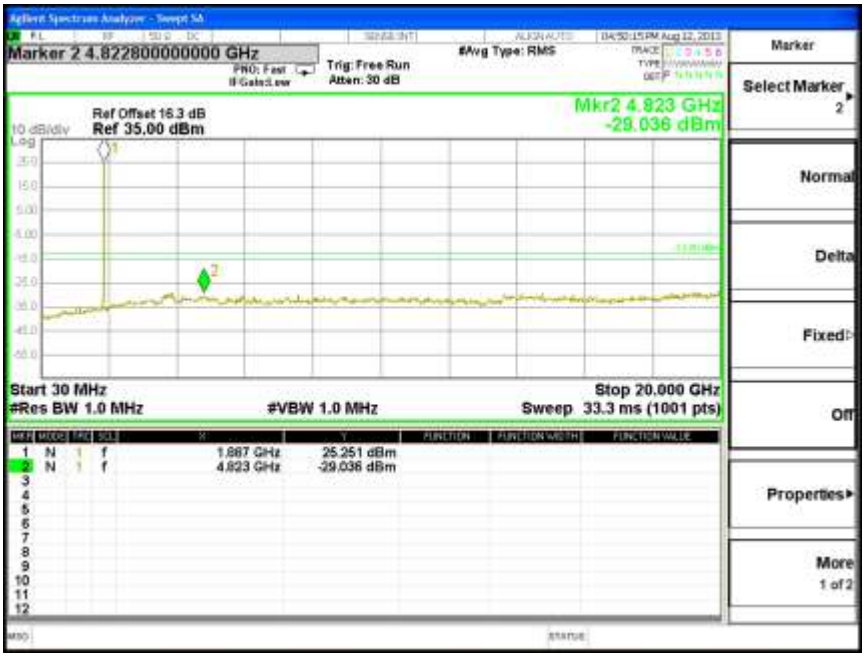
LTE 16QAM

LOW, RB1-0, 30 TO 20000 MHz



MID, RB1-0, 30 TO 20000 MHz



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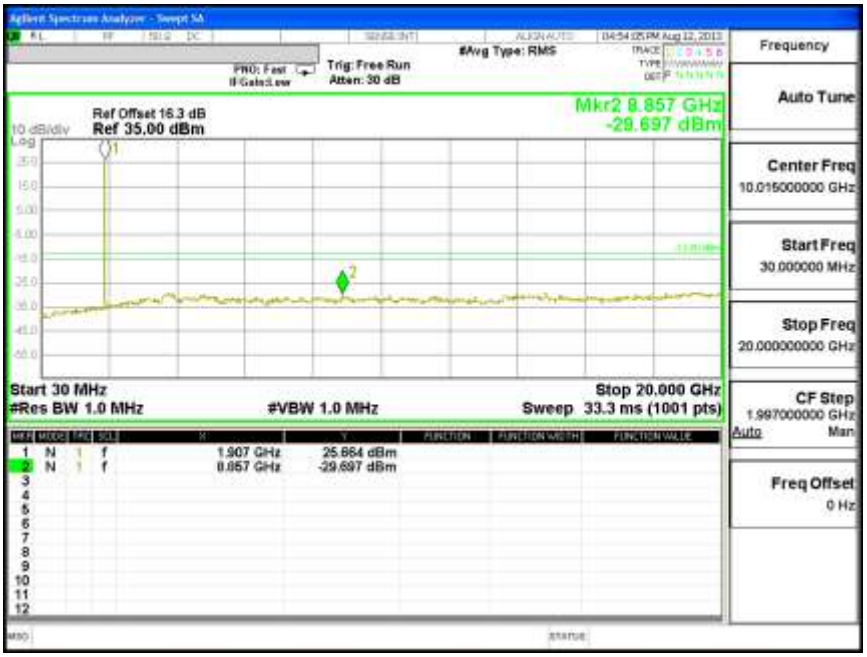
HIGH, RB1-0, 30 TO 20000 MHz



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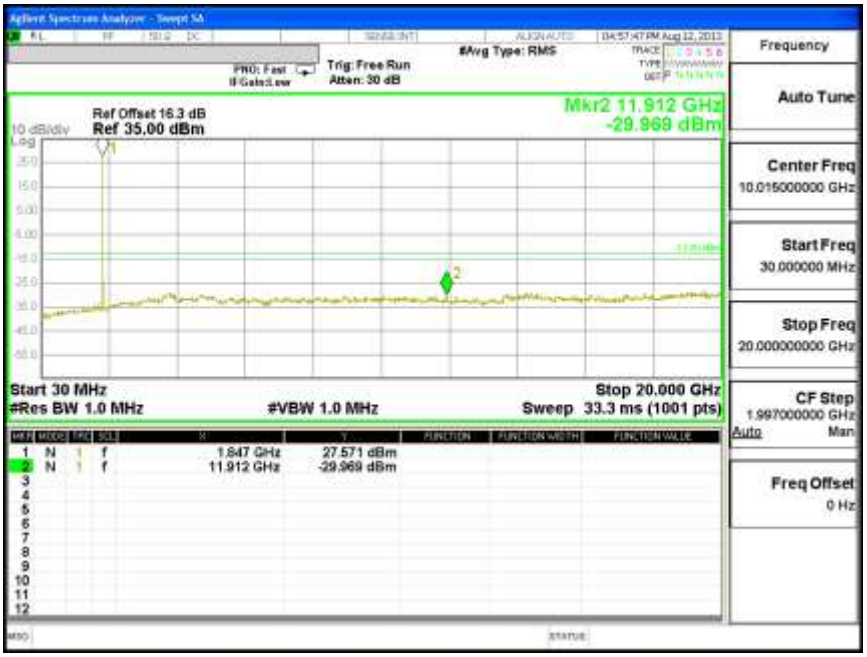
LTE QPSK (10.0 MHz BAND WIDTH)

LOW, RB1-0, 30 TO 20000 MHz



MID, RB1-0, 30 TO 20000 MHz

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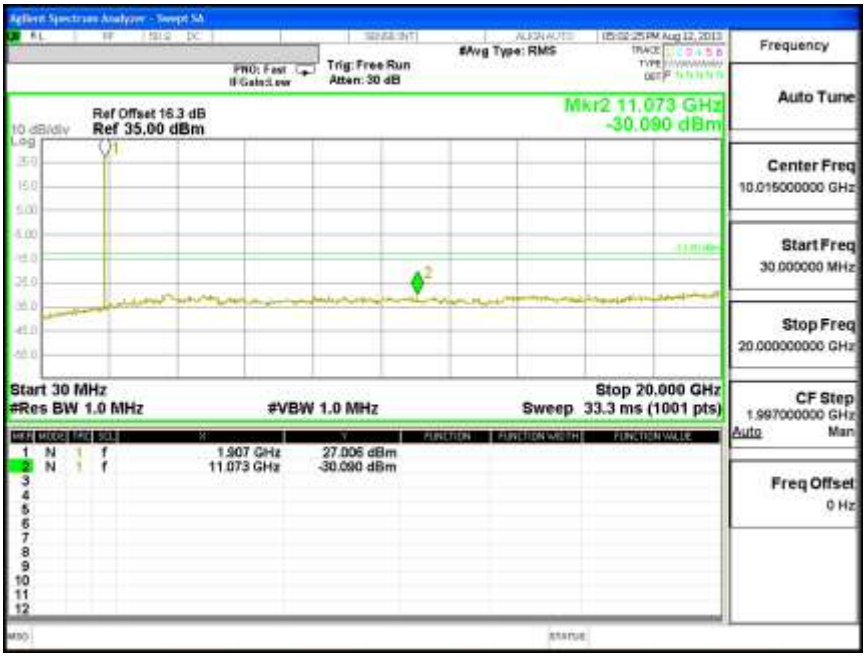
HIGH, RB1-0, 30 TO 20000 MHz



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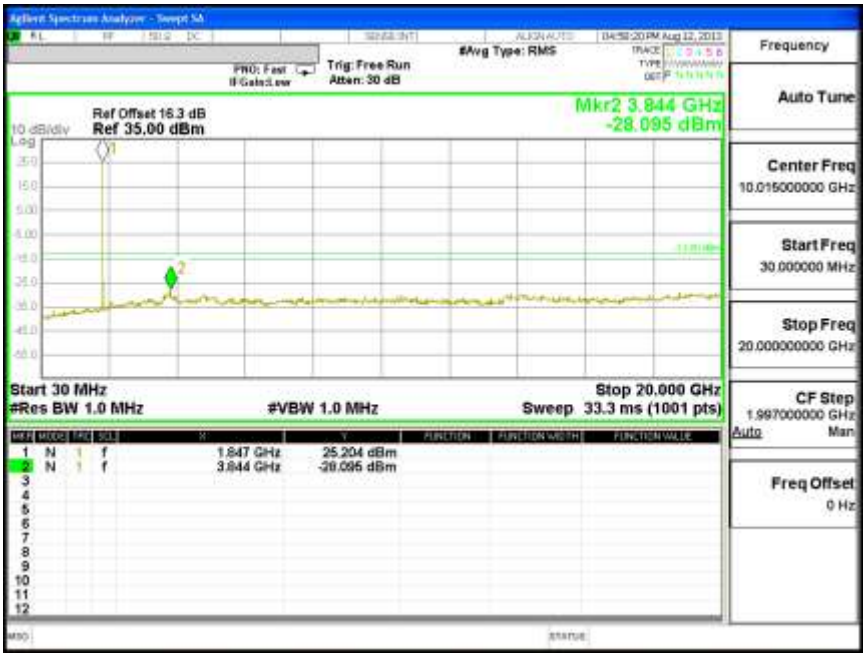
LTE 16QAM

LOW, RB1-0, 30 TO 20000 MHz



MID, RB1-0, 30 TO 20000 MHz

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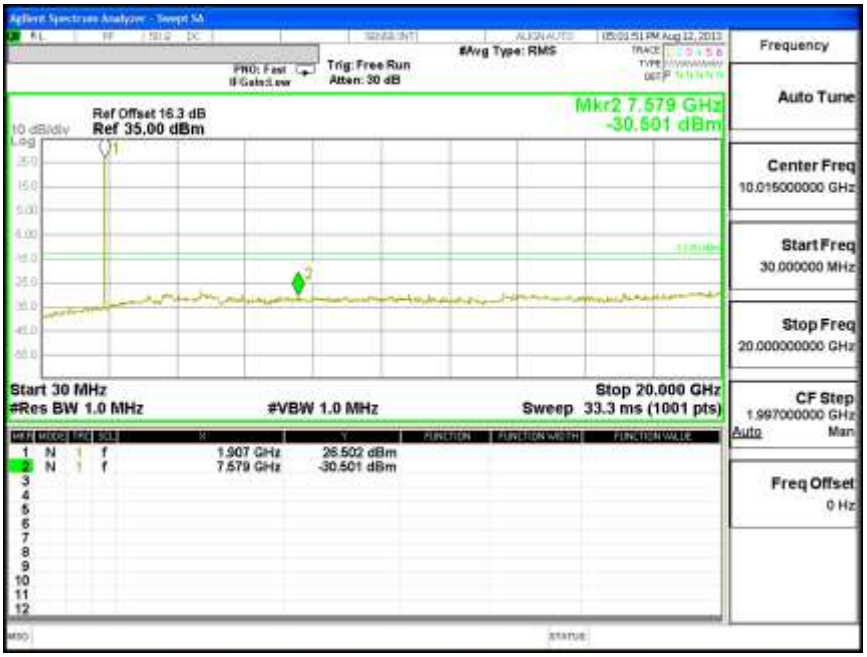
HIGH, RB1-0, 30 TO 20000 MHz



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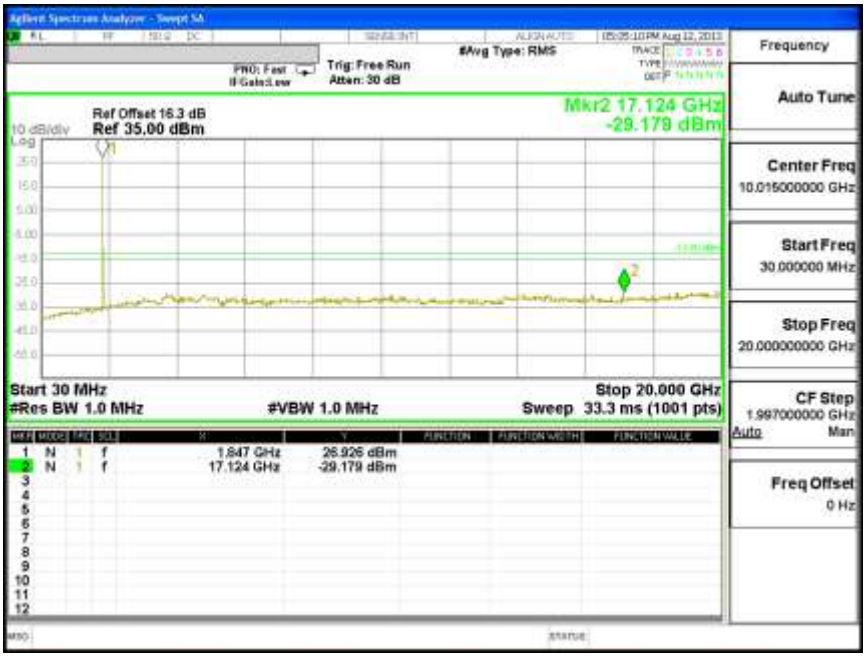
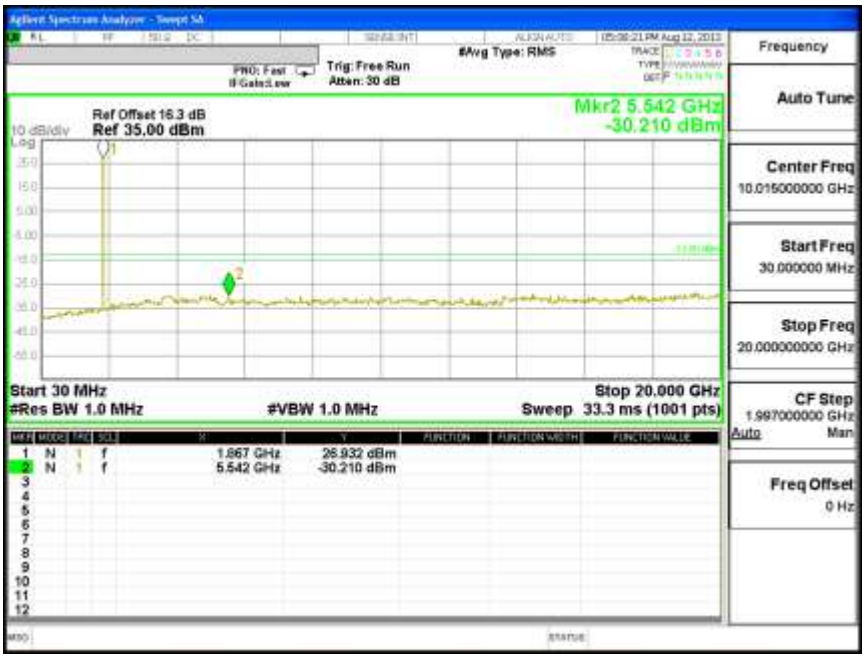
LTE QPSK (15.0 MHz BAND WIDTH)

LOW, RB1-0, 30 TO 20000 MHz



MID, RB1-0, 30 TO 20000 MHz



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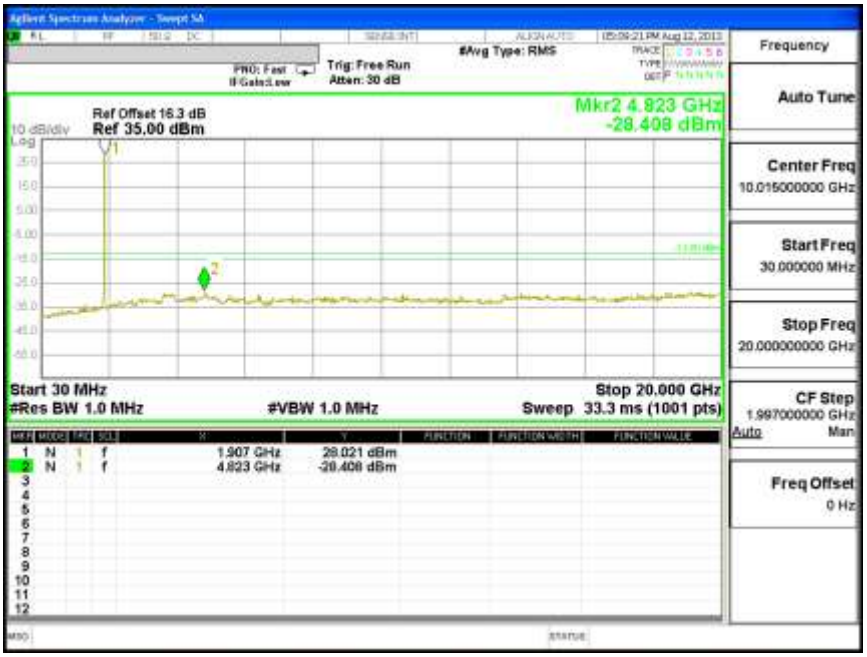
HIGH, RB1-0, 30 TO 20000 MHz



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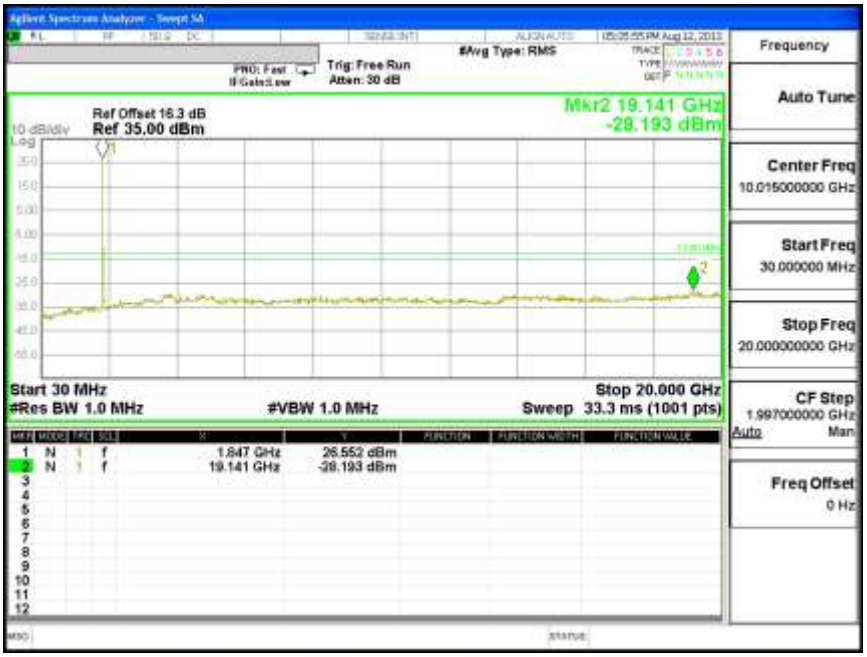
LTE 16QAM

LOW, RB1-0, 30 TO 20000 MHz



MID, RB1-0, 30 TO 20000 MHz

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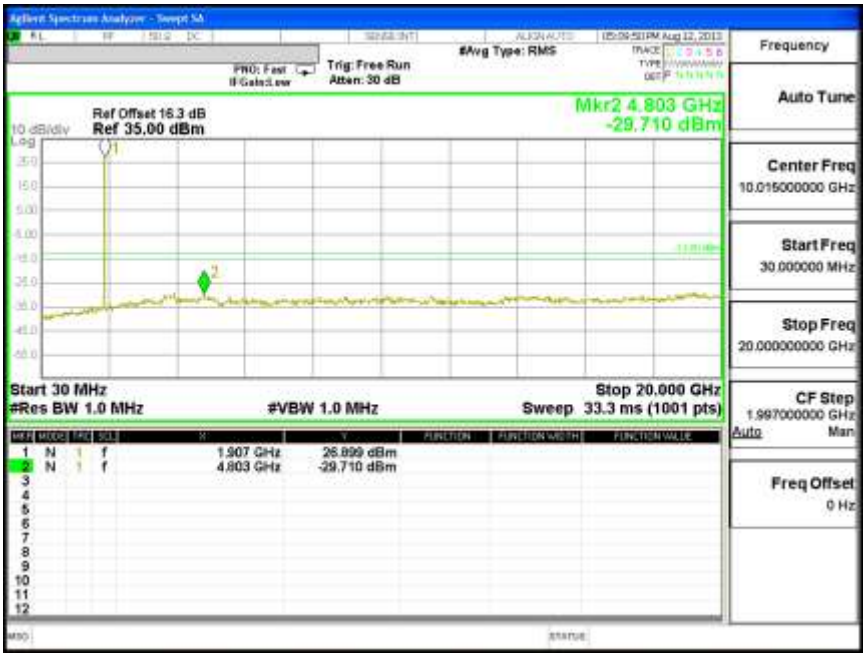
HIGH, RB1-0, 30 TO 20000 MHz



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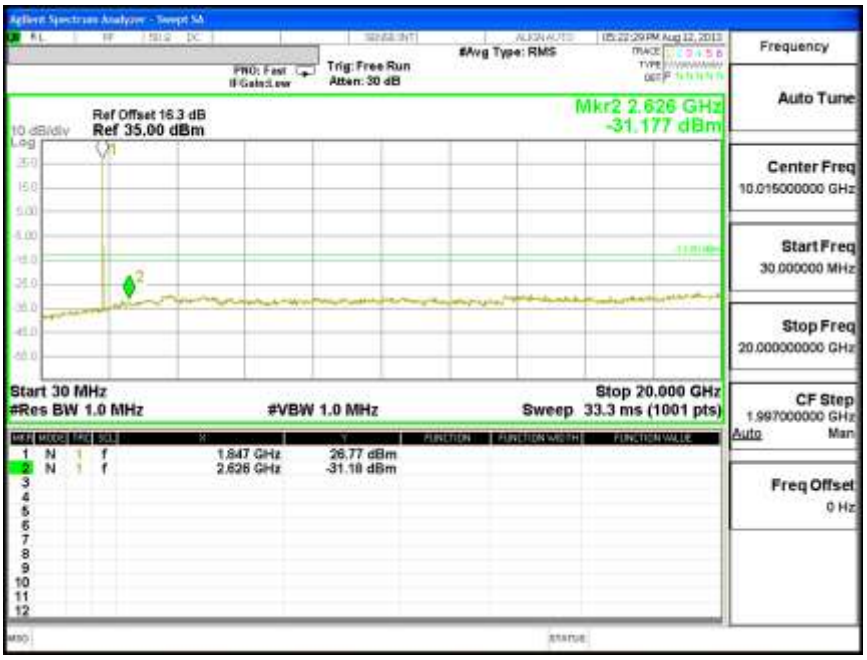
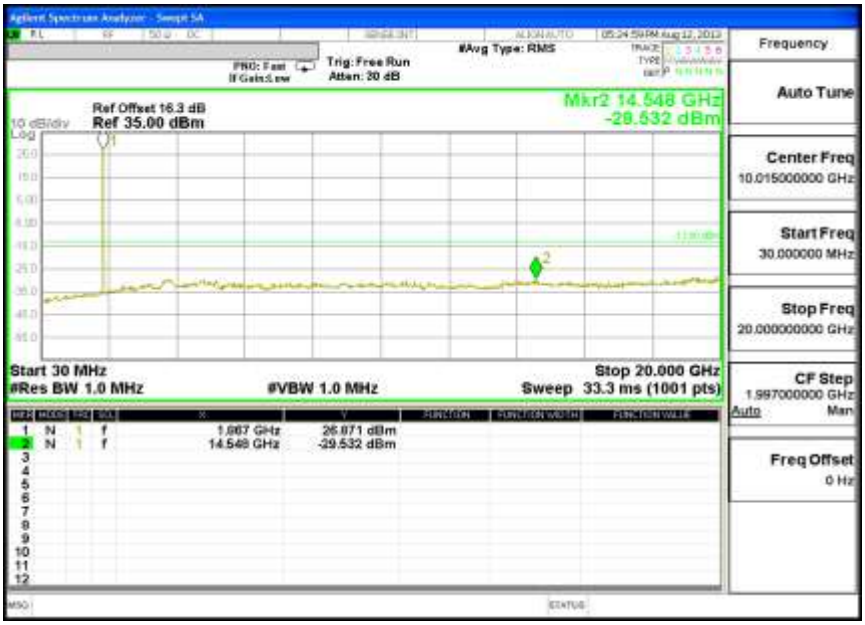
Band 25 (20.0 MHz BAND WIDTH)

LTE QPSK

LOW, RB1-0, 30 TO 20000 MHz



MID, RB1-0, 30 TO 20000 MHz



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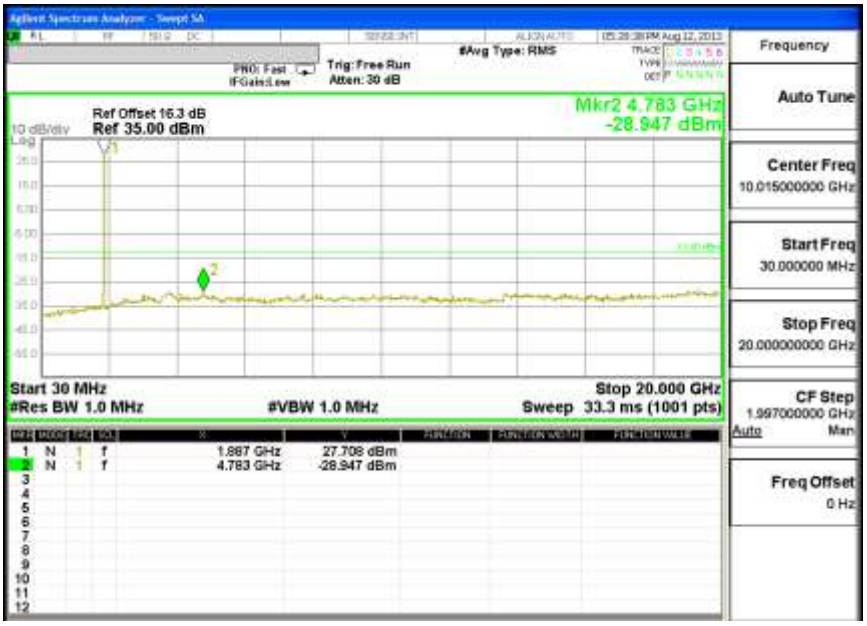
HIGH, RB1-0, 30 TO 20000 MHz



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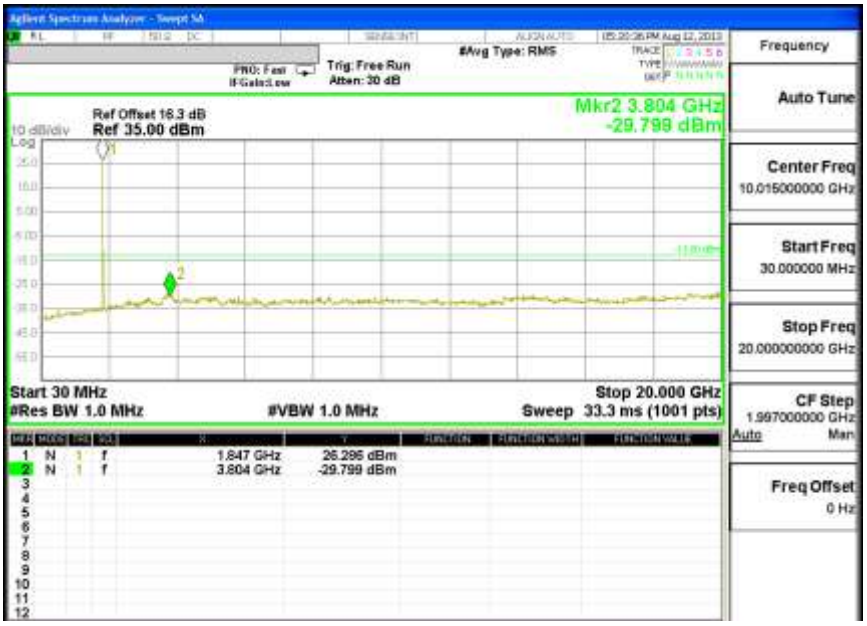
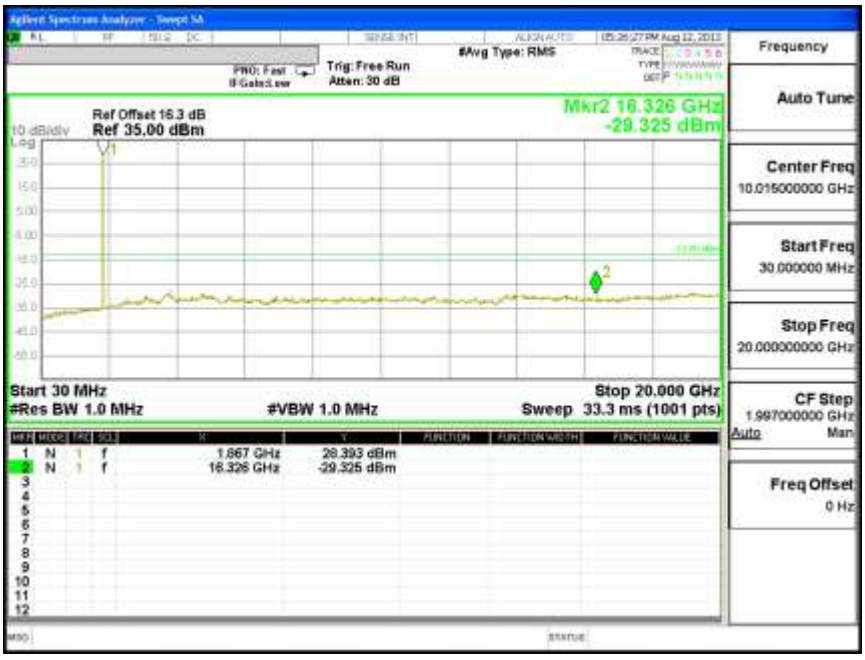
LTE 16QAM

LOW, RB1-0, 30 TO 20000 MHz



MID, RB1-0, 30 TO 20000 MHz



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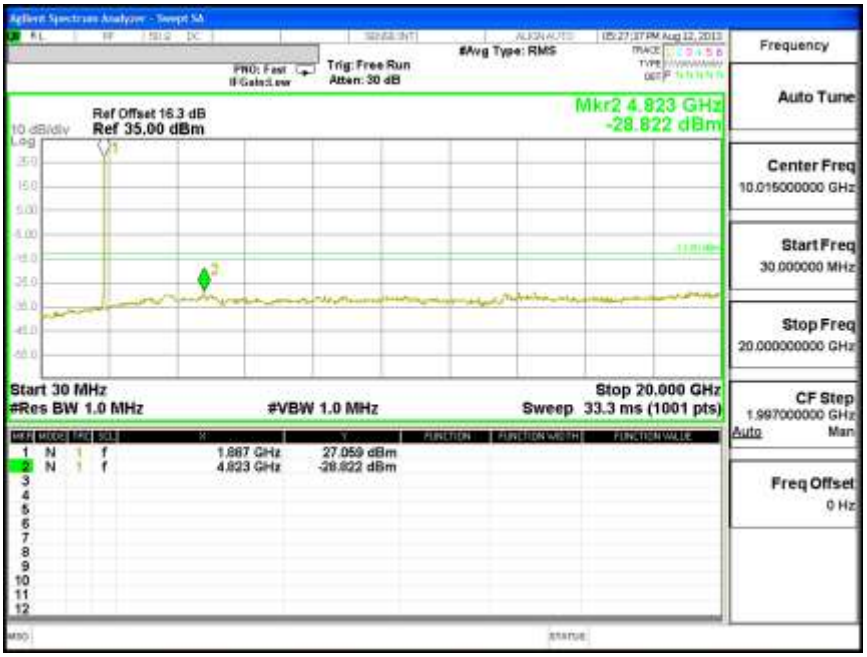
HIGH, RB1-0, 30 TO 20000 MHz



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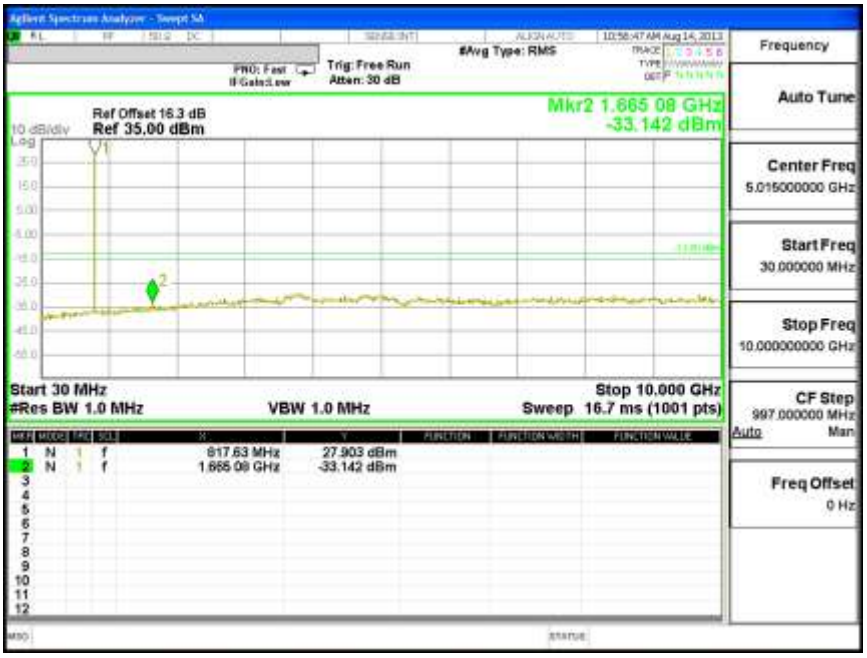
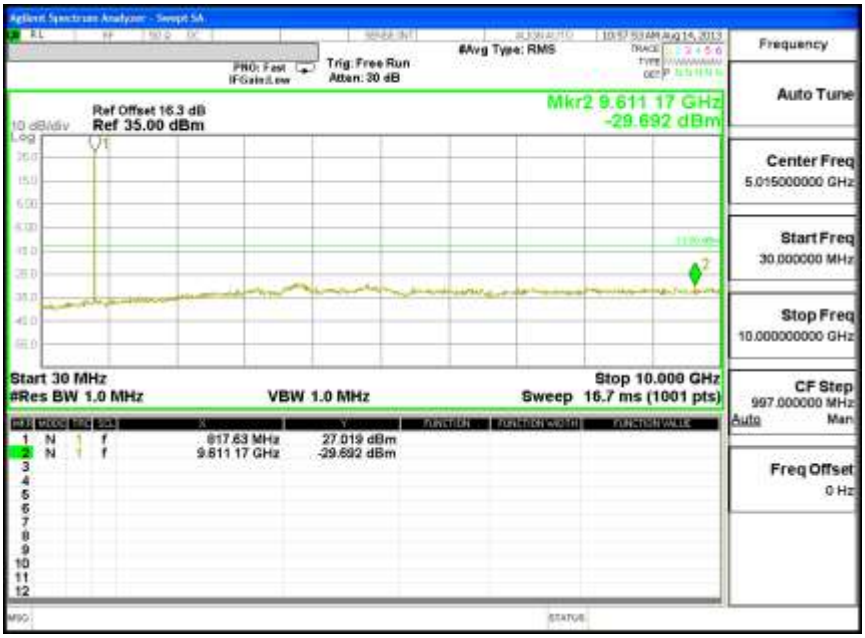
8.3.7. LTE BAND 26

LTE BAND 26 QPSK (3.0 MHz BAND WIDTH)

LOW, RB1-0, 30 TO 10000 MHz



MID, RB1-0, 30 TO 10000 MHz



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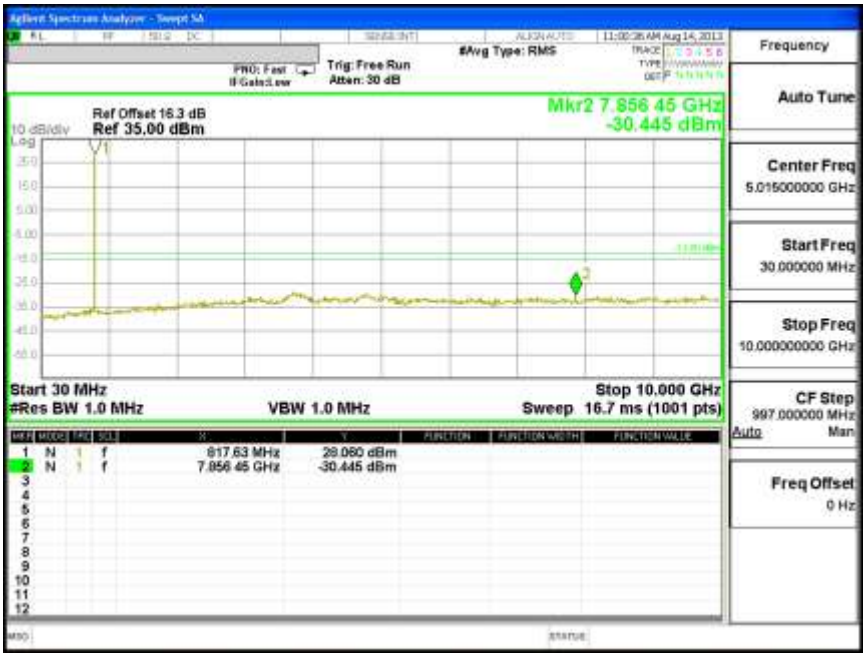
HIGH, RB1-0, 30 TO 10000 MHz



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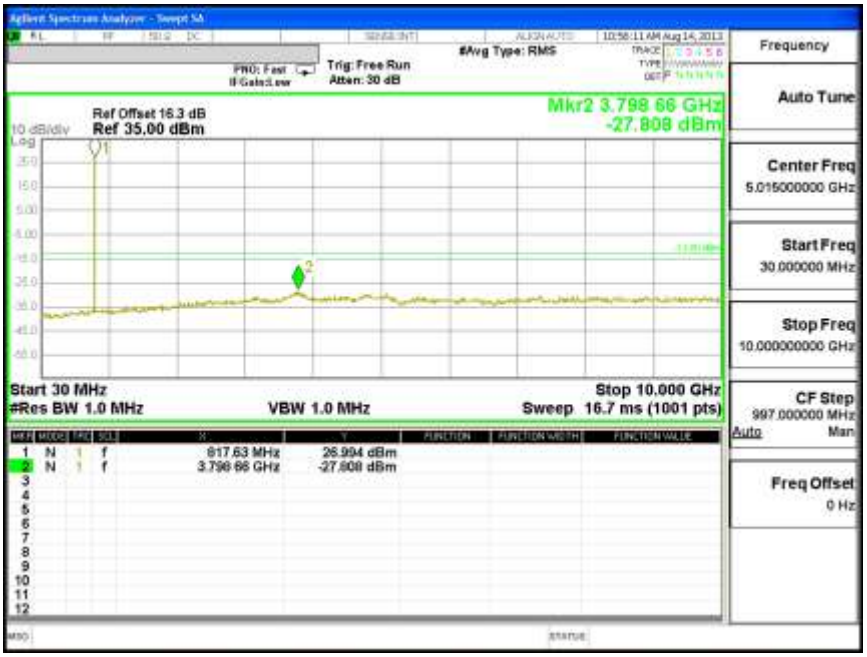
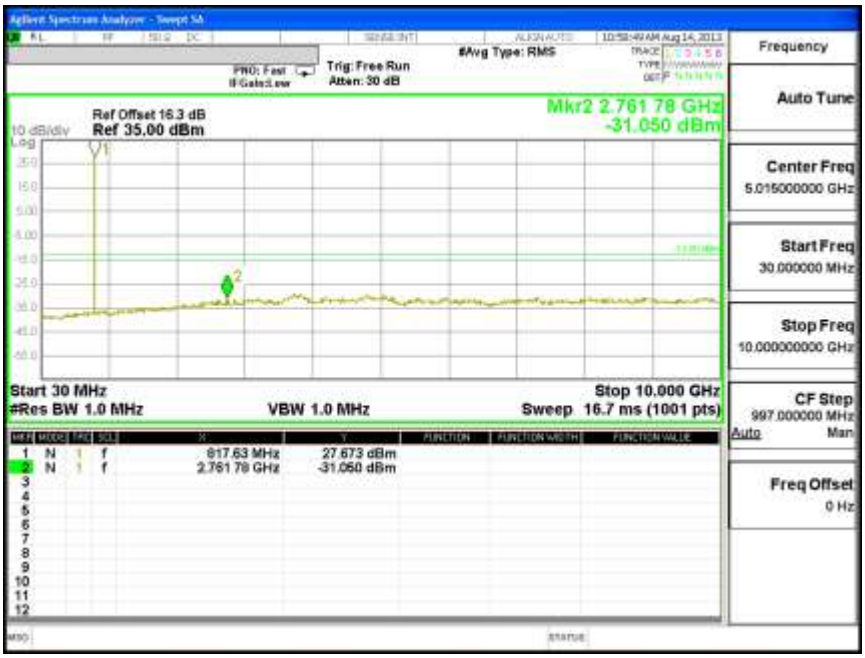
LTE 16QAM

LOW, RB1-0, 30 TO 10000 MHz



MID, RB1-0, 30 TO 10000 MHz



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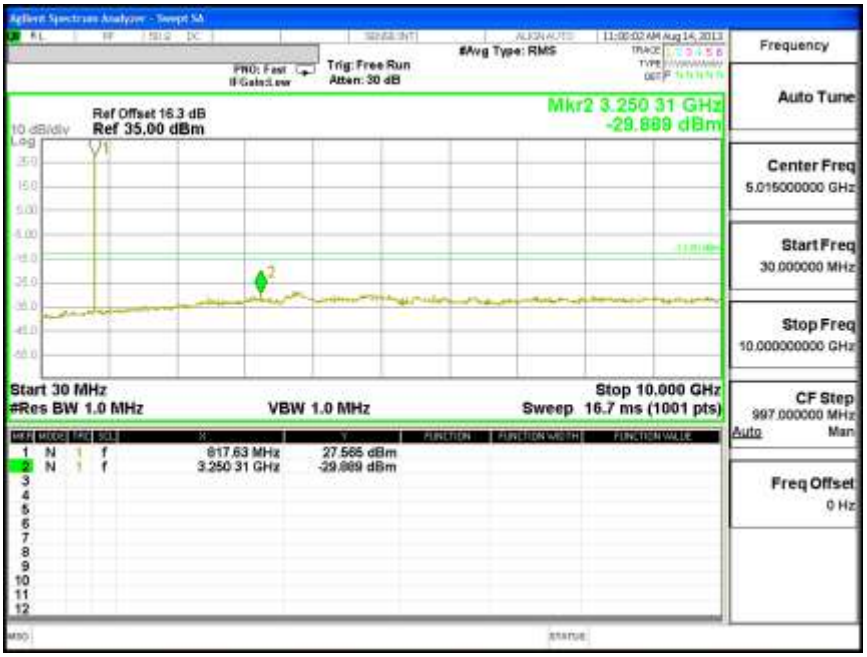
HIGH, RB1-0, 30 TO 10000 MHz



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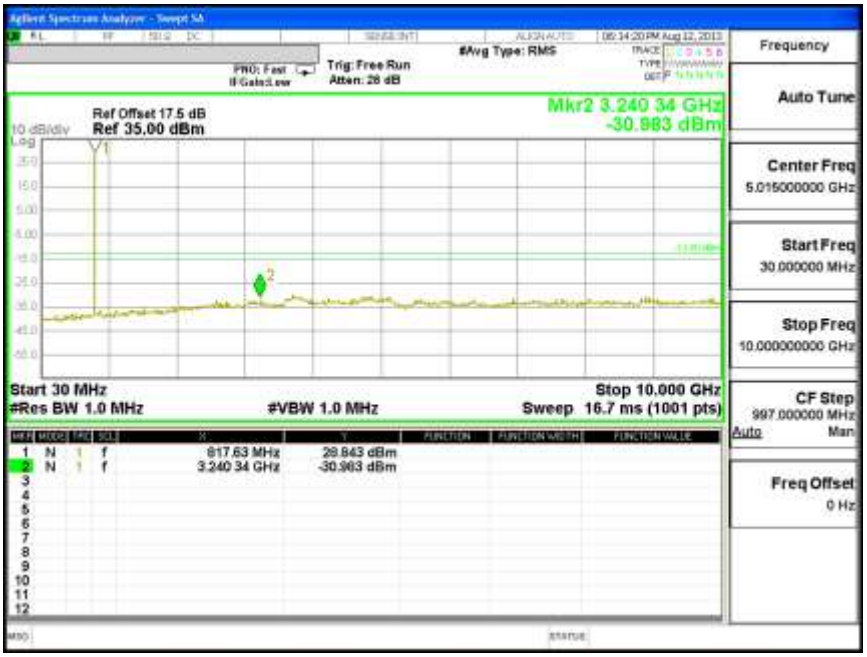
LTE BAND 26 QPSK (5.0 MHz BAND WIDTH)

LOW, RB1-0, 30 TO 10000 MHz



MID, RB1-0, 30 TO 10000 MHz

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