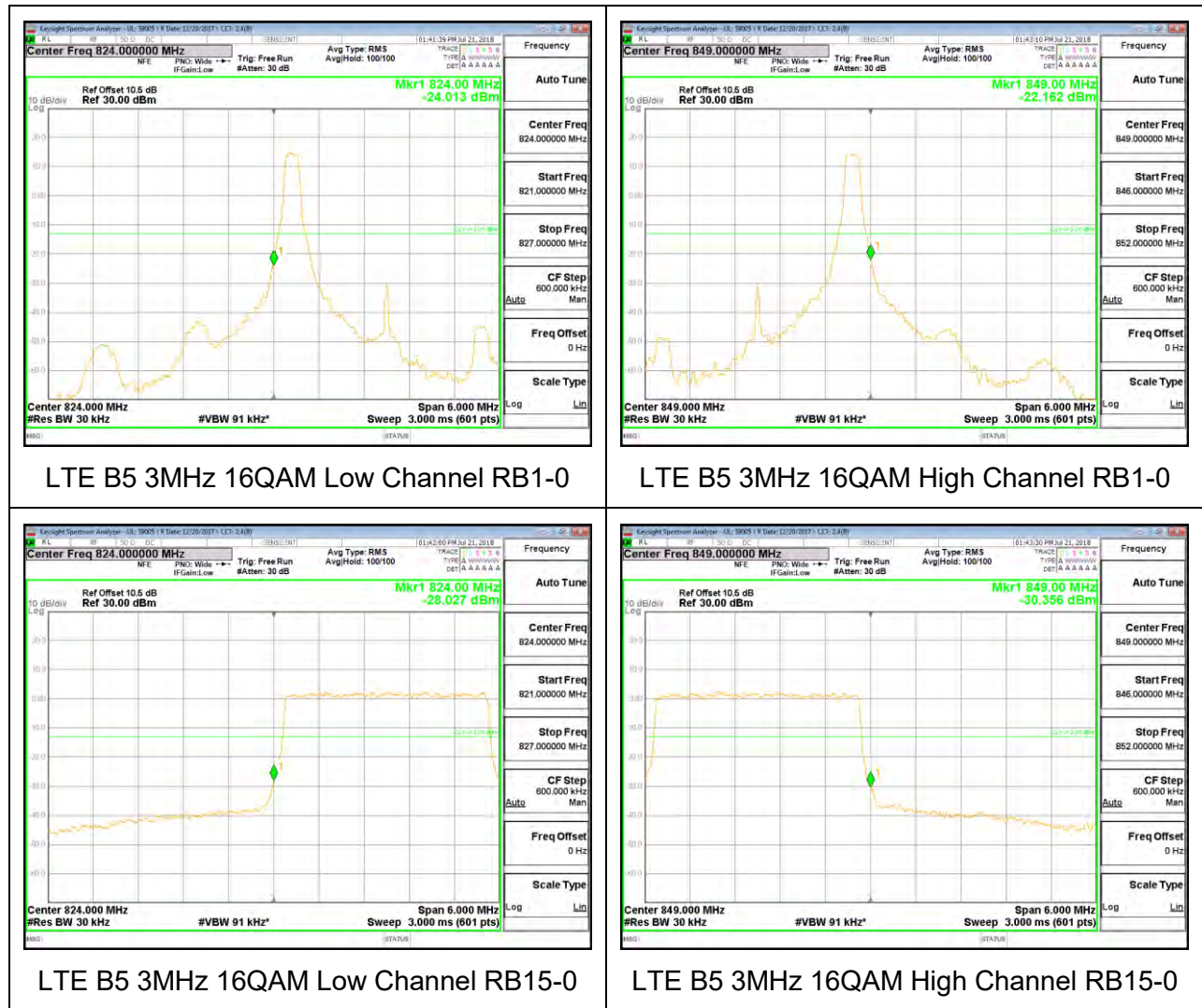
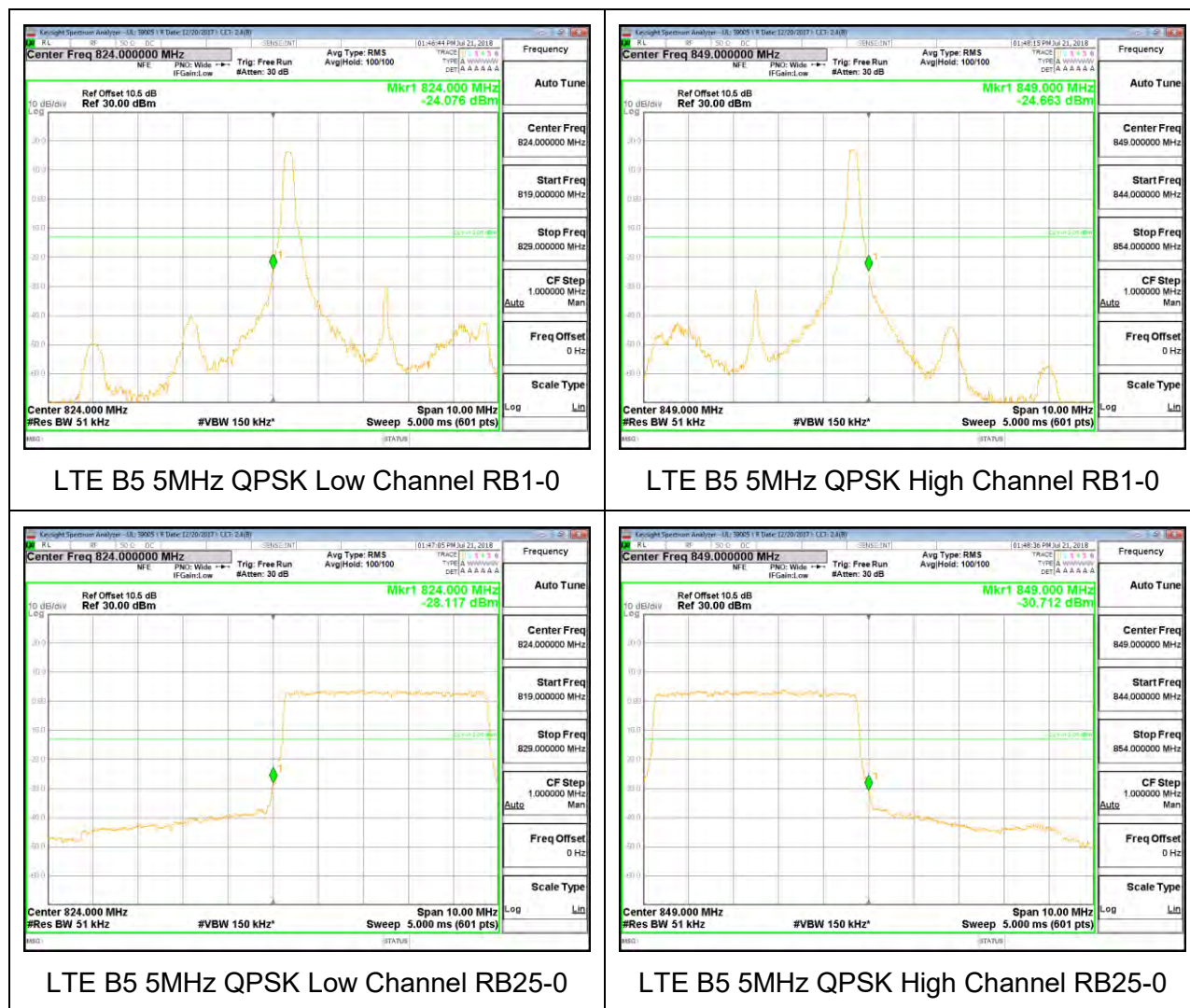
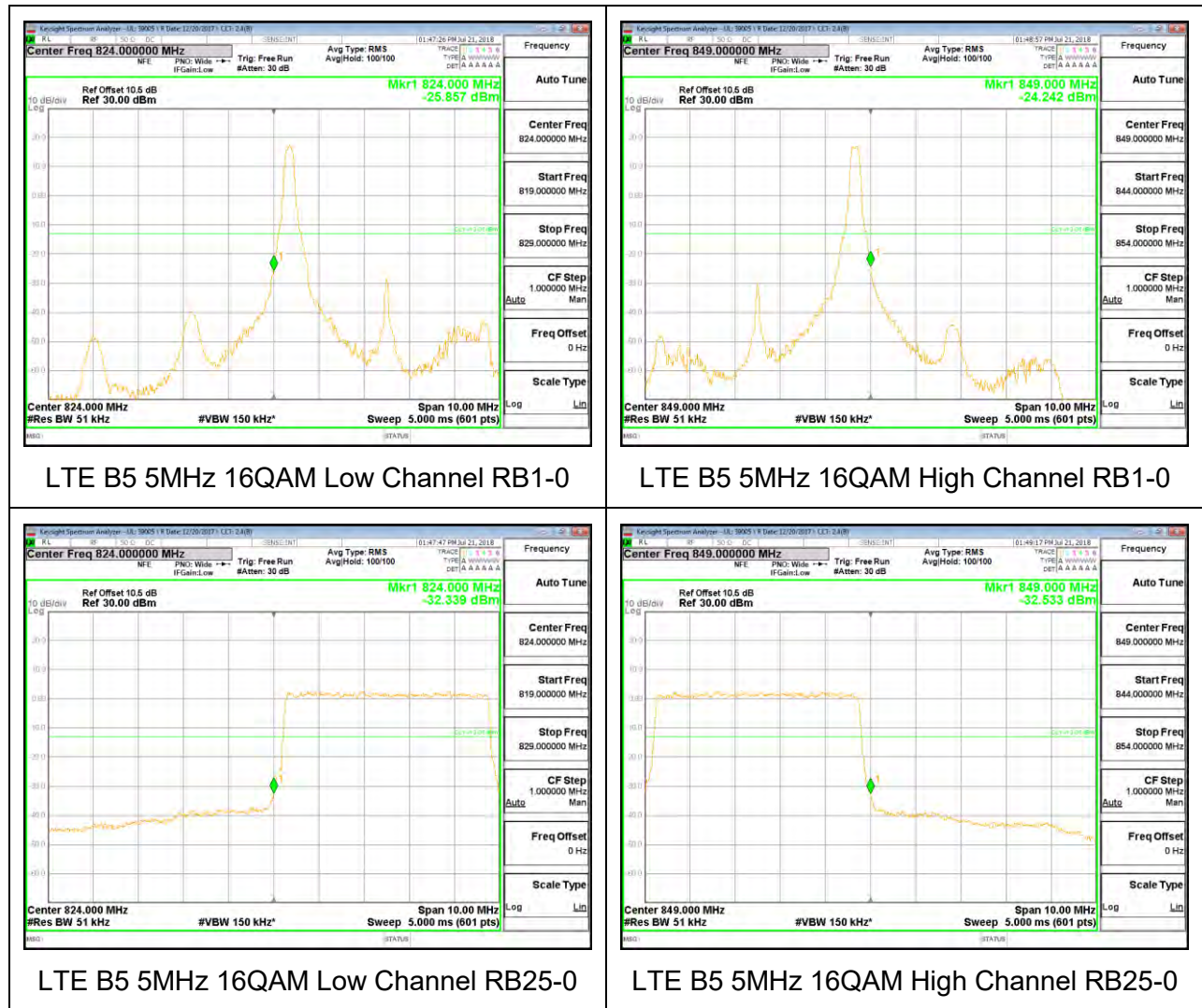
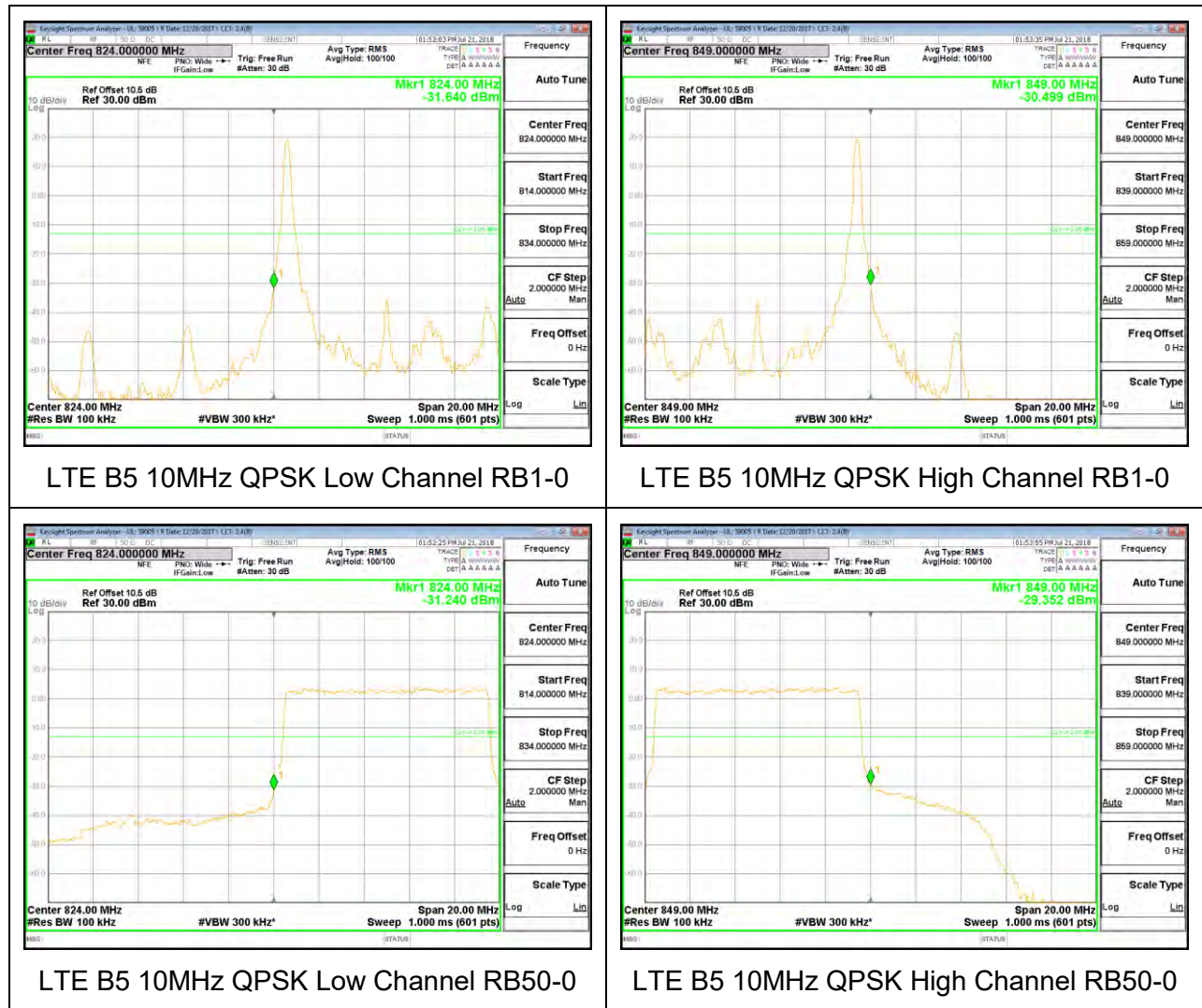
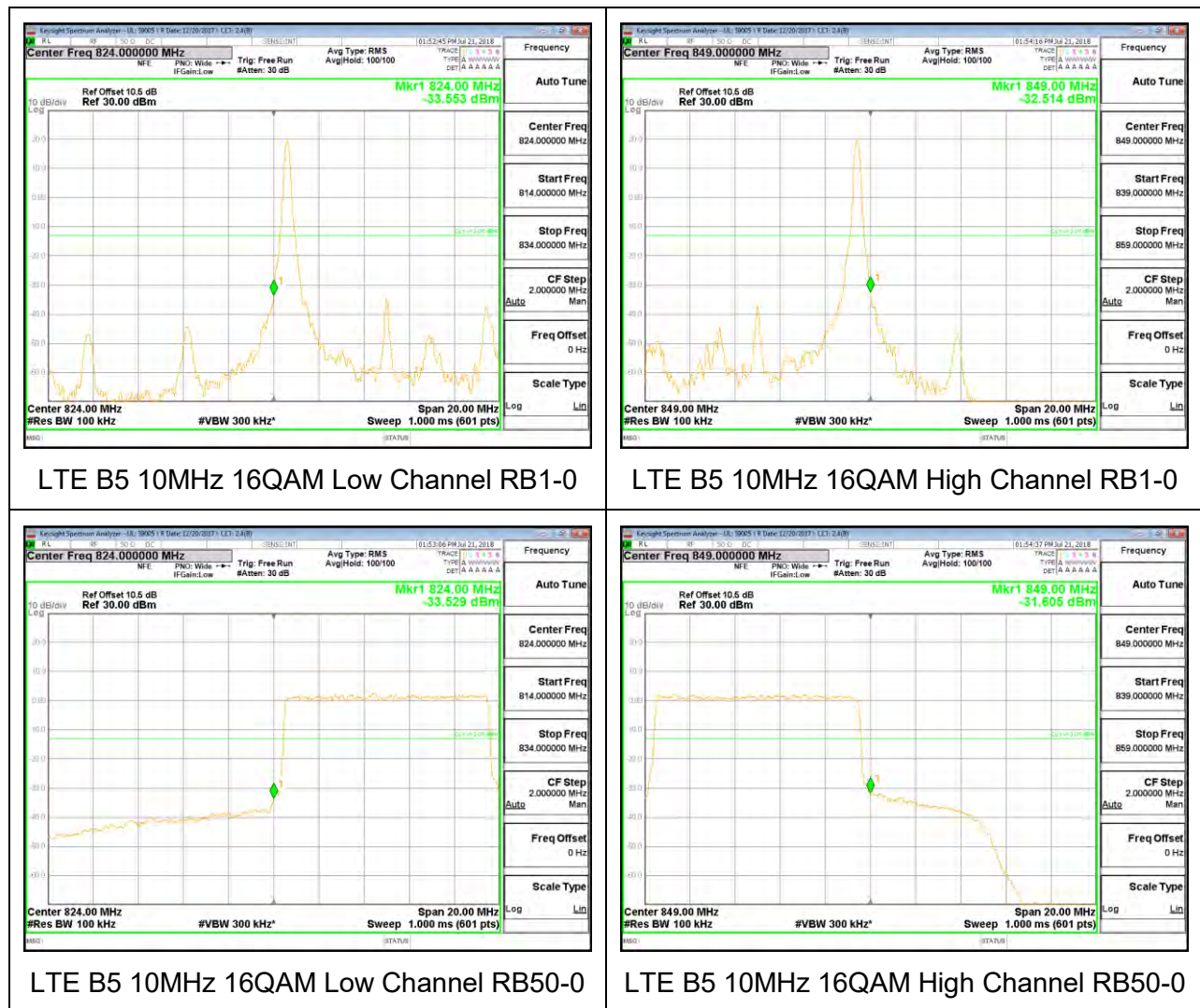




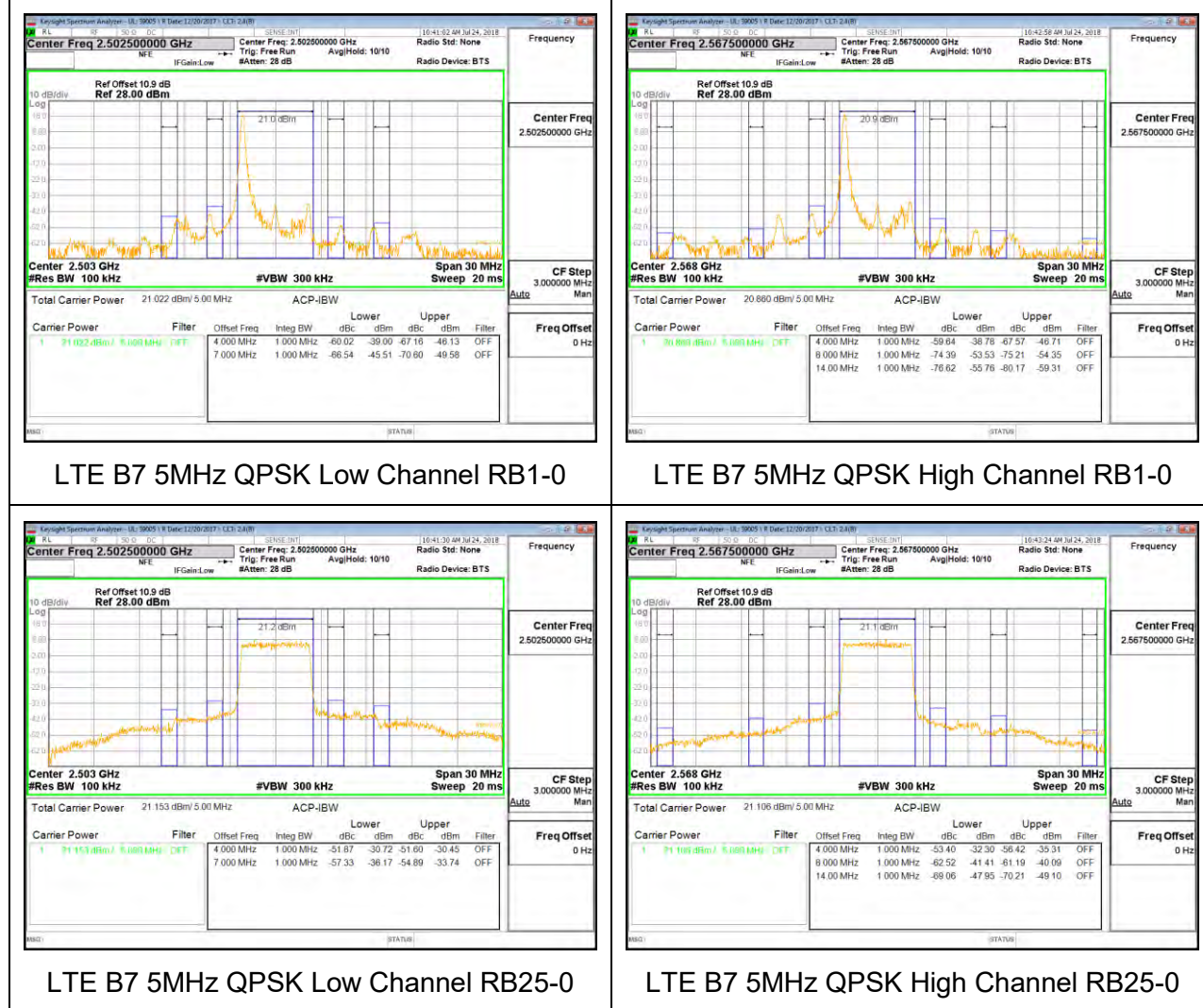


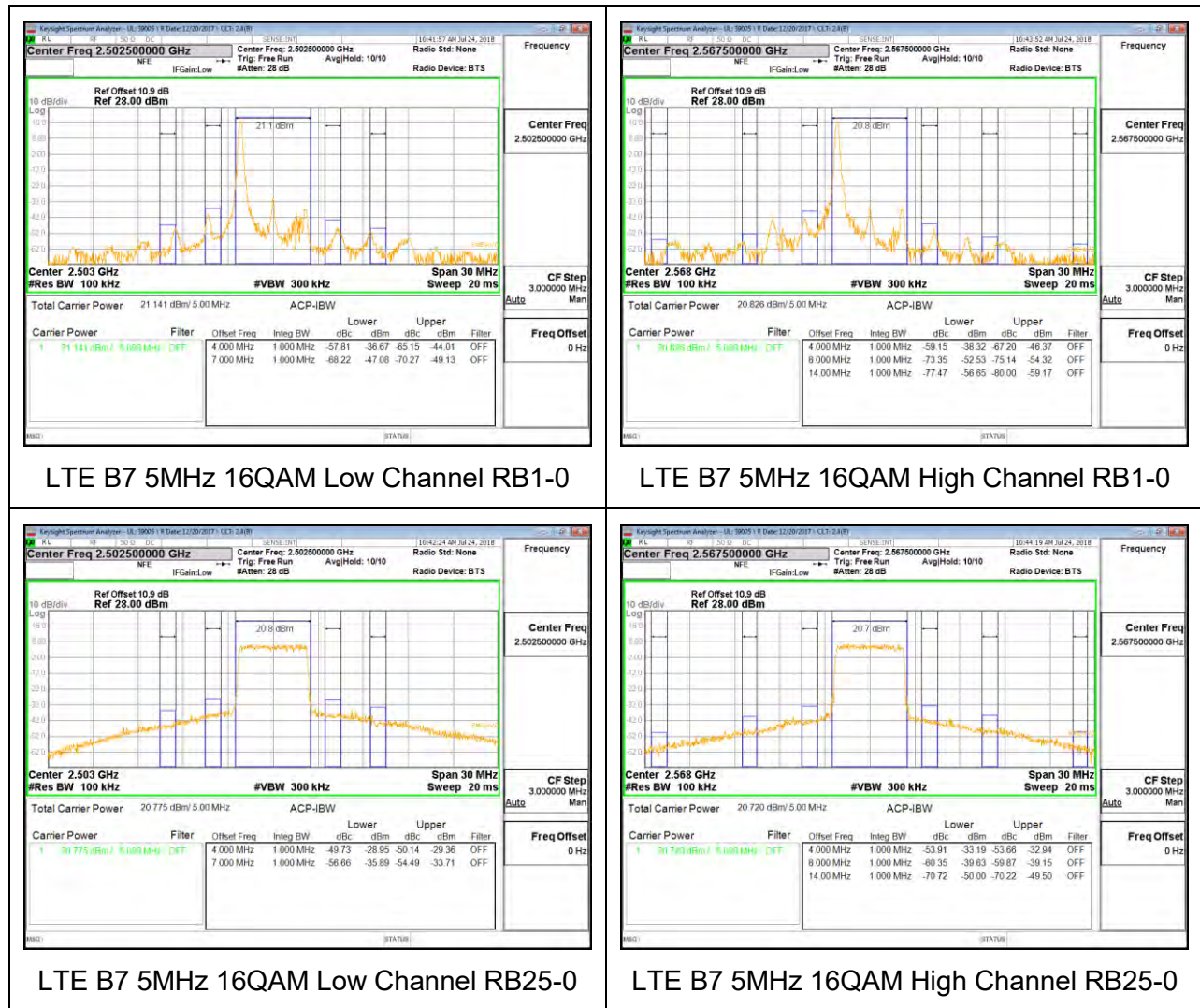


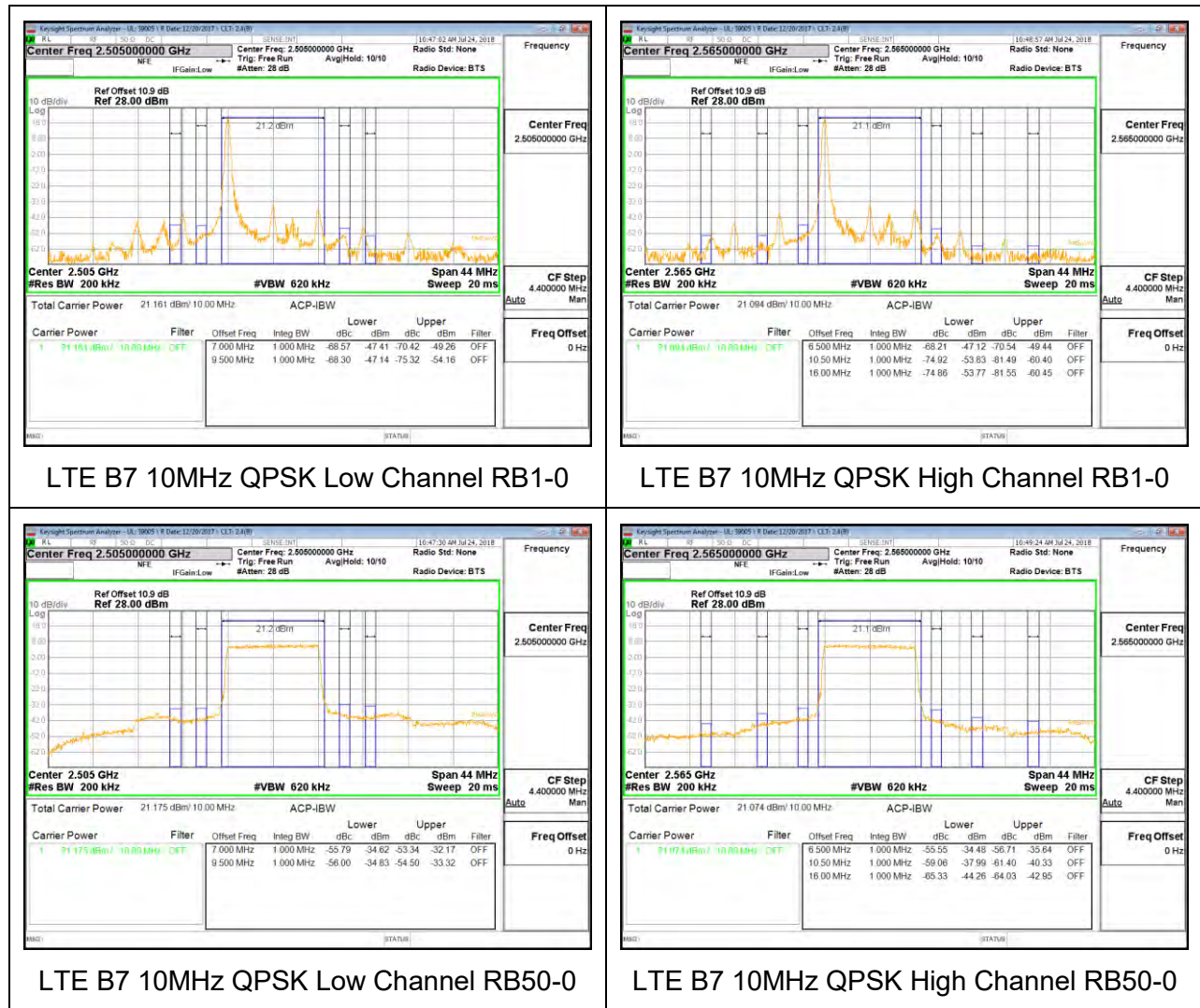


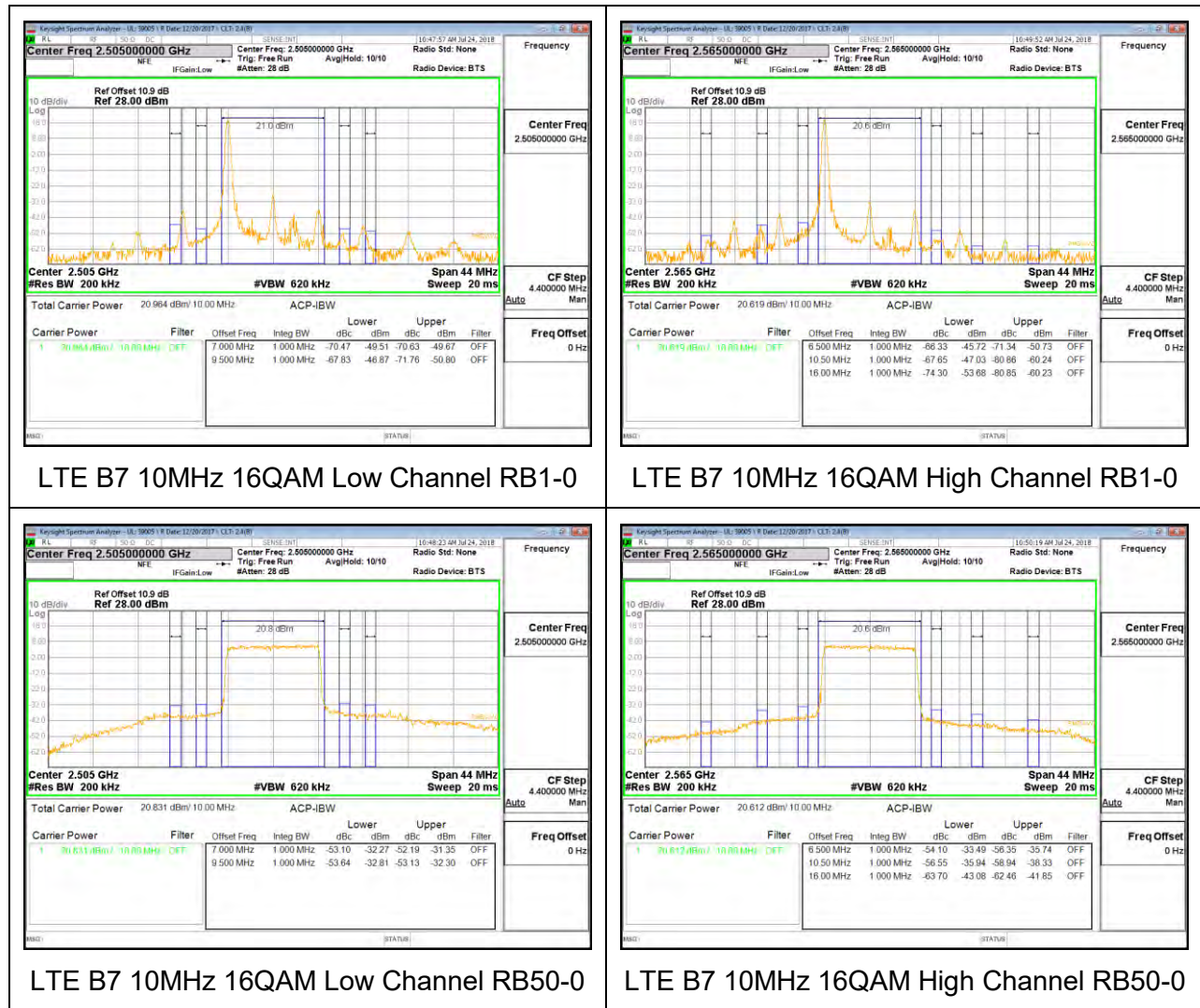


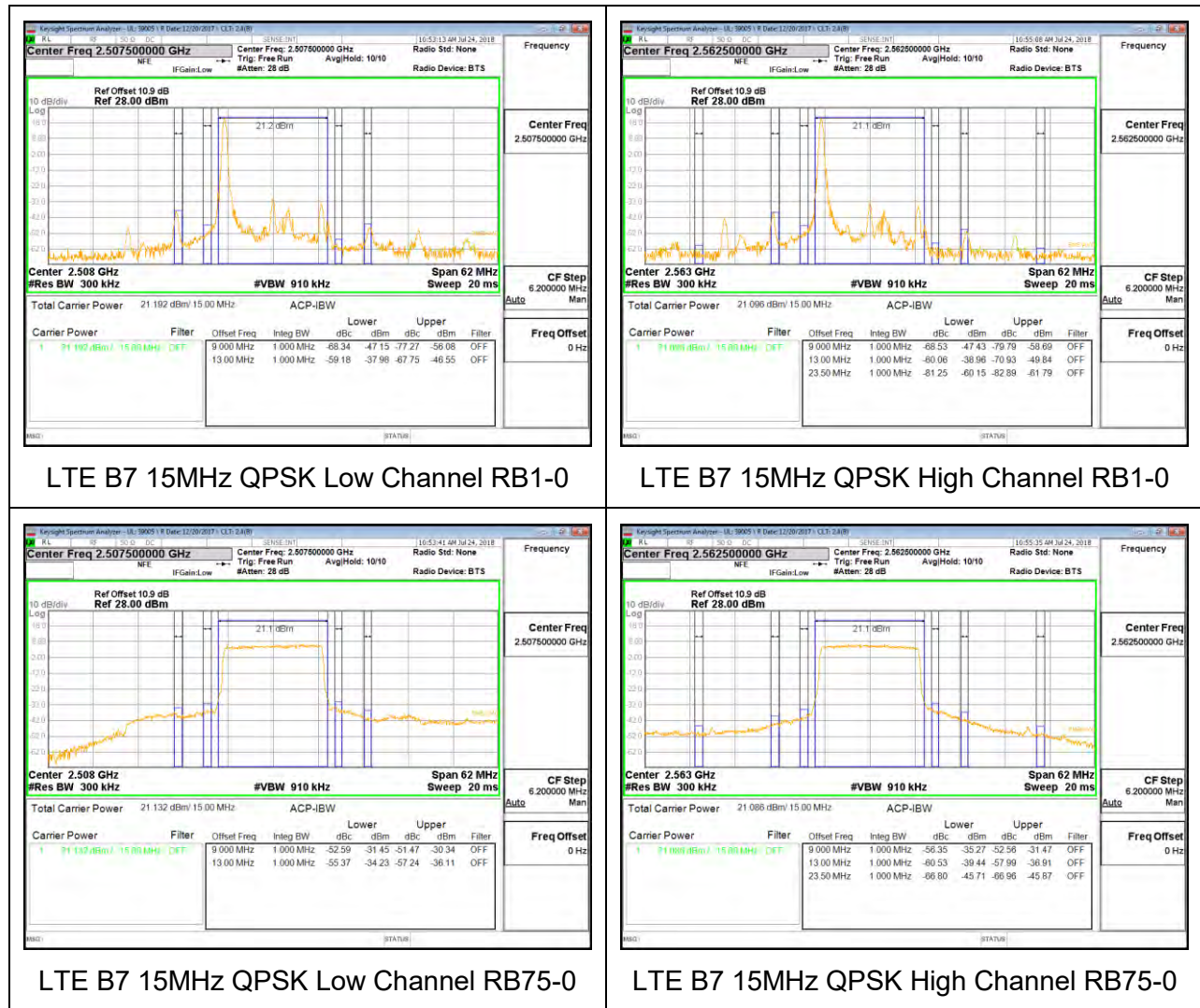
8.2.8. LTE BAND 7 ADJACENT CHANNEL POWER

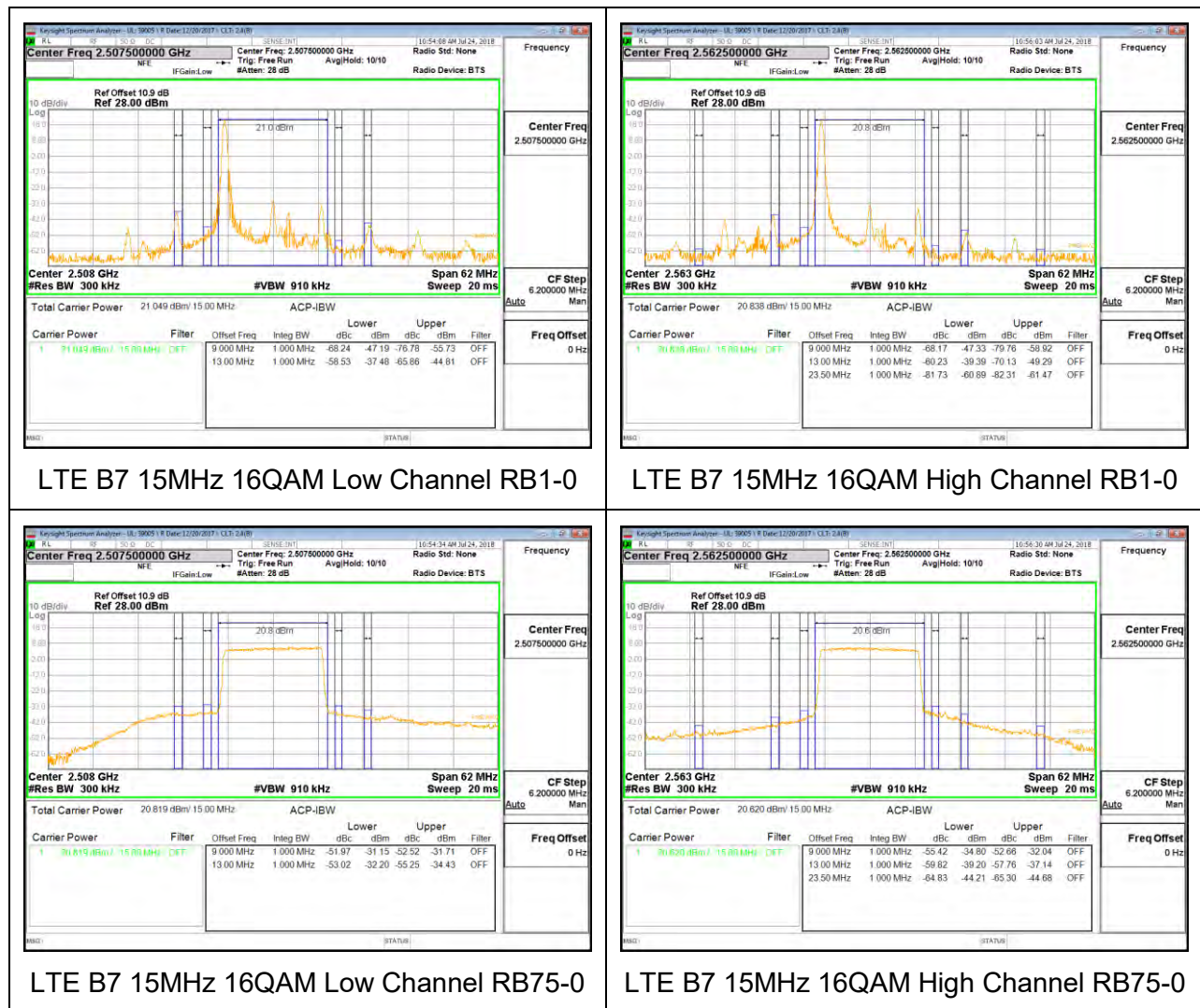


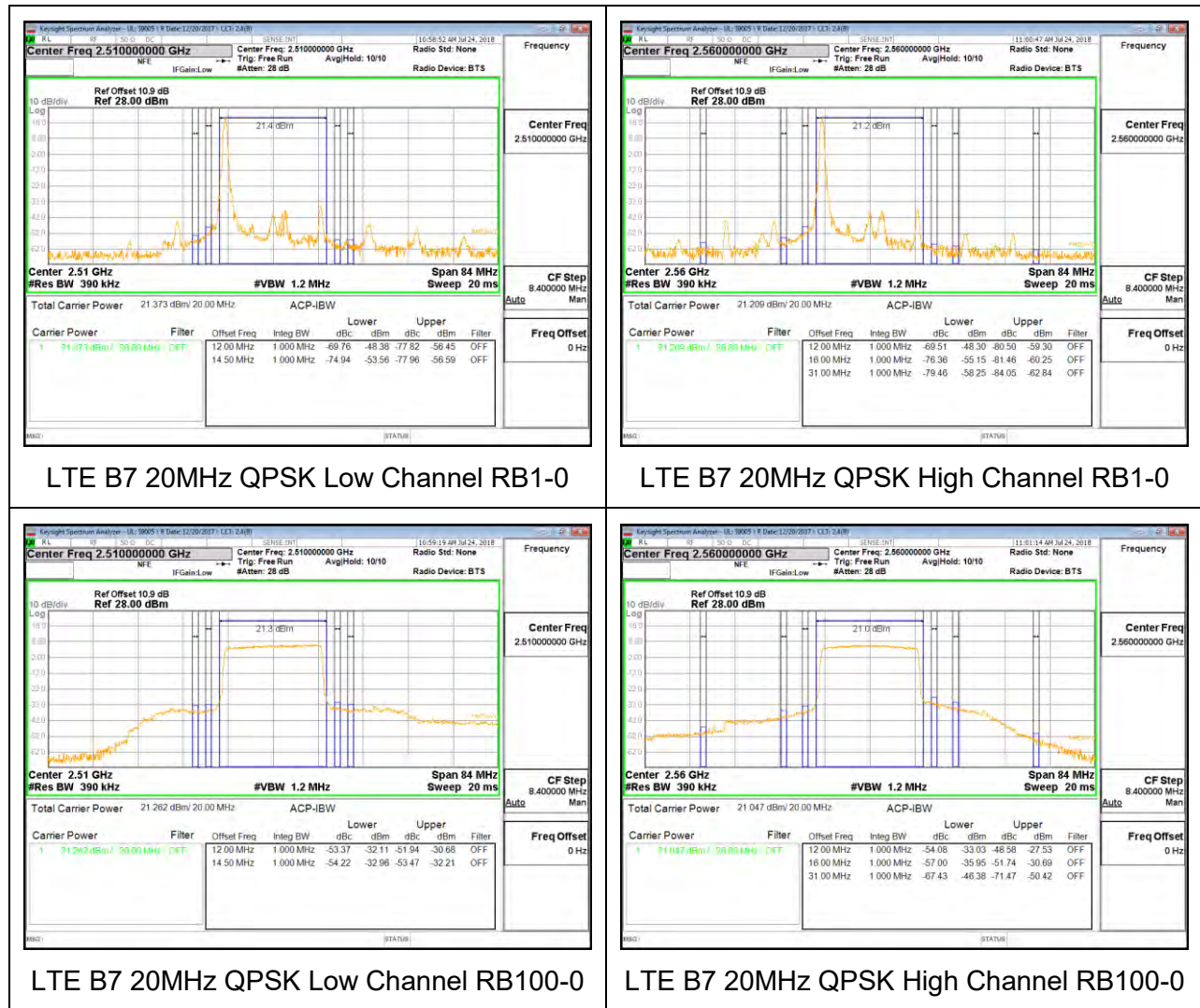


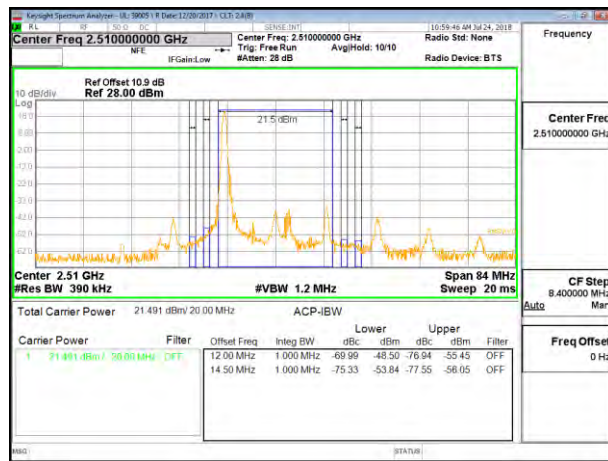




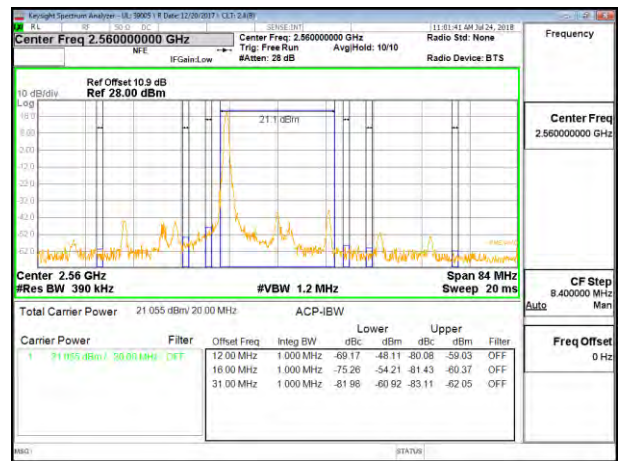




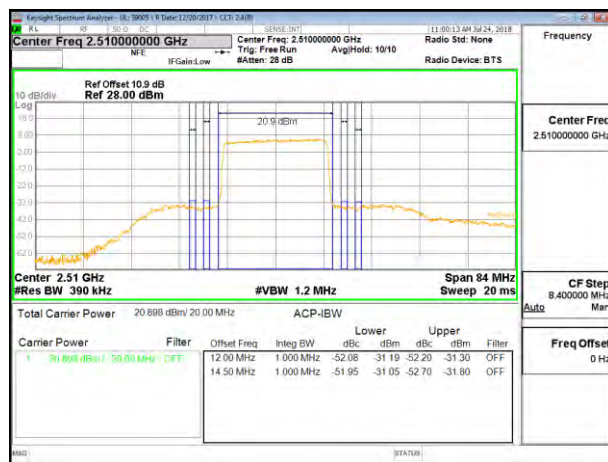




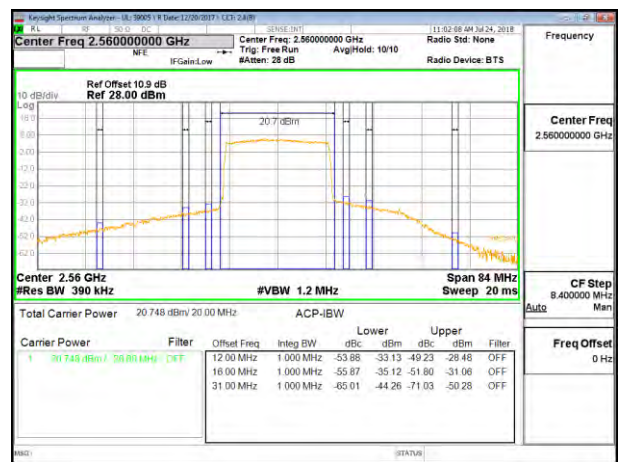
LTE B7 20MHz 16QAM Low Channel RB1-0



LTE B7 20MHz 16QAM High Channel RB1-0

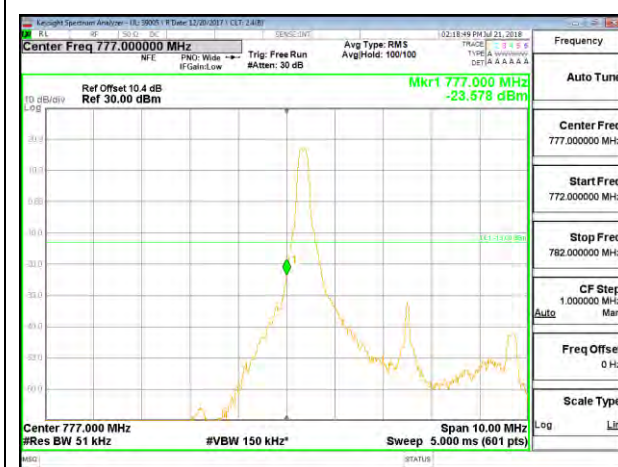


LTE B7 20MHz 16QAM Low Channel RB100-0

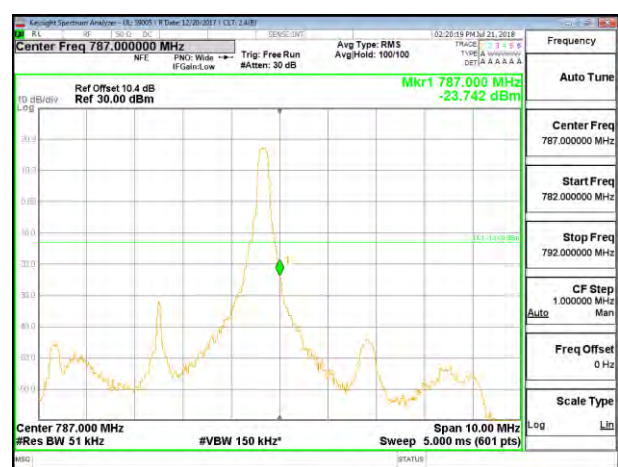


LTE B7 20MHz 16QAM High Channel RB100-0

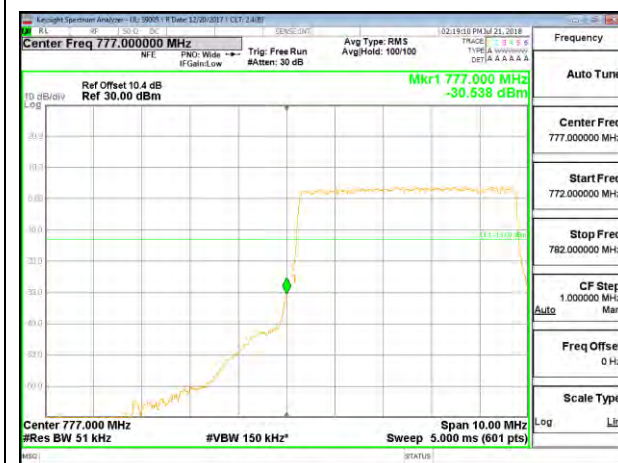
8.2.9. LTE BAND 13 BANDEDGE



LTE B13 5MHz QPSK Low Channel RB1-0



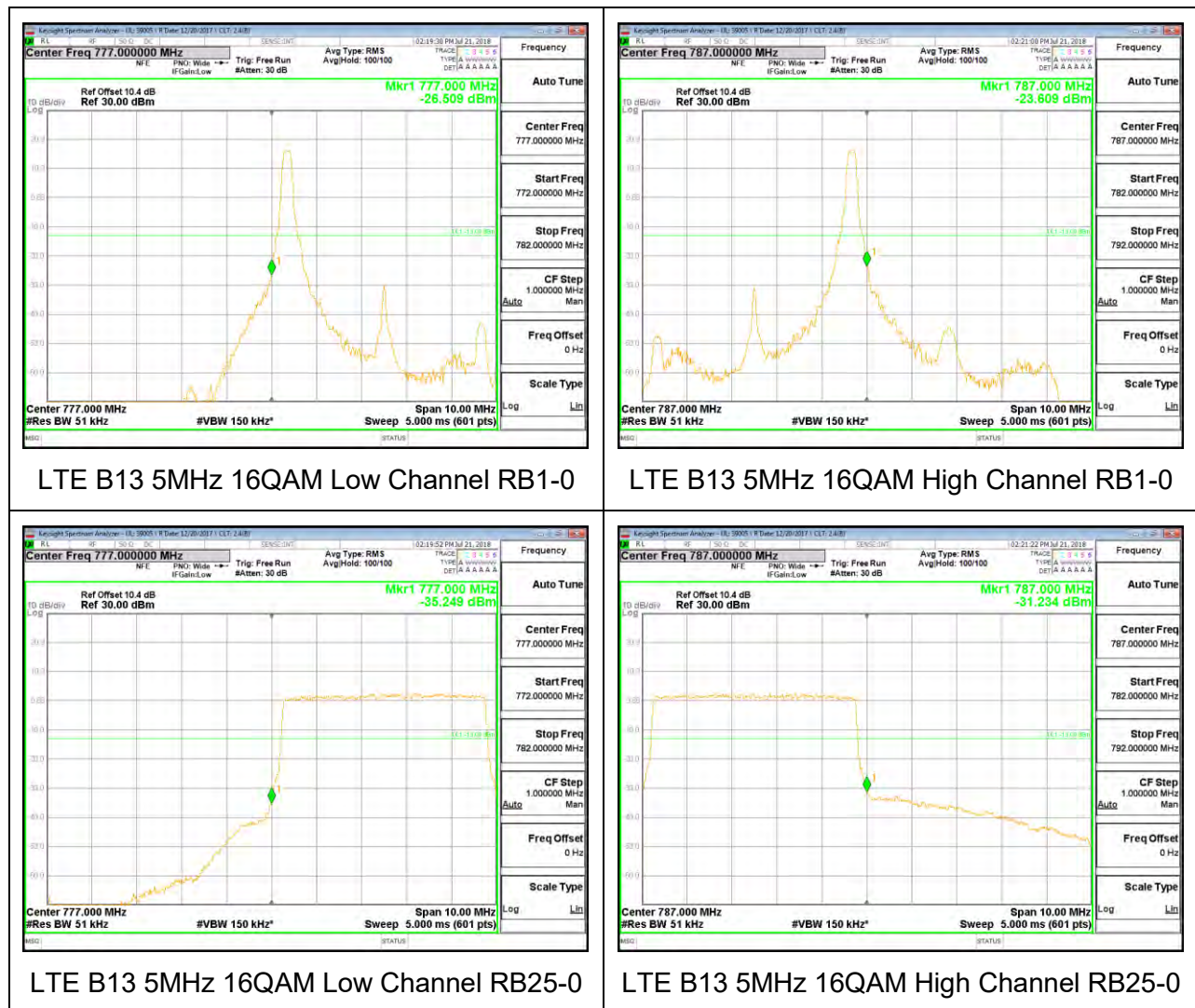
LTE B13 5MHz QPSK High Channel RB1-0

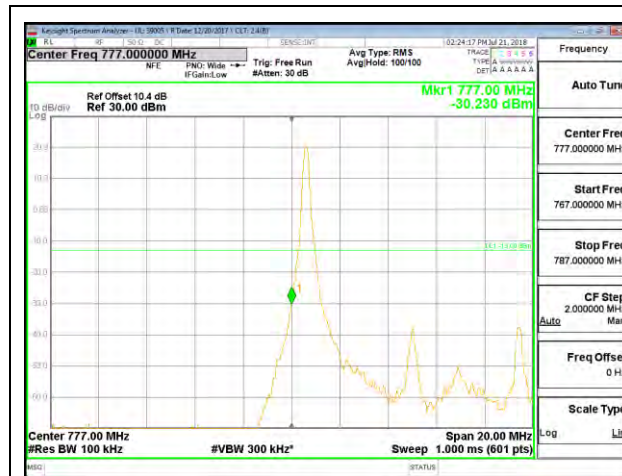


LTE B13 5MHz QPSK Low Channel RB25-0

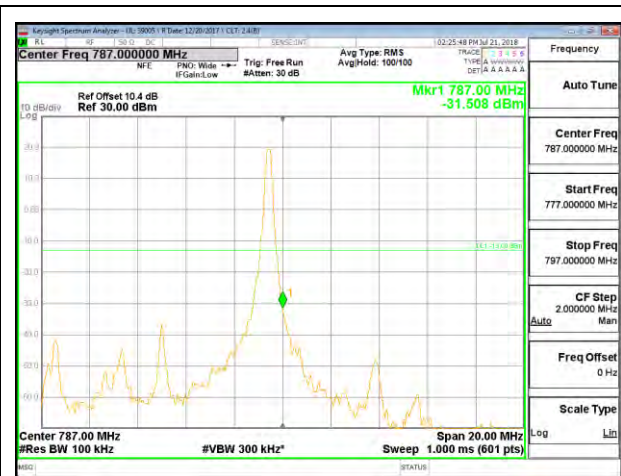


LTE B13 5MHz QPSK High Channel RB25-0





LTE B13 10MHz QPSK Mid Channel RB1-0



LTE B13 10MHz QPSK Mid Channel RB1-0

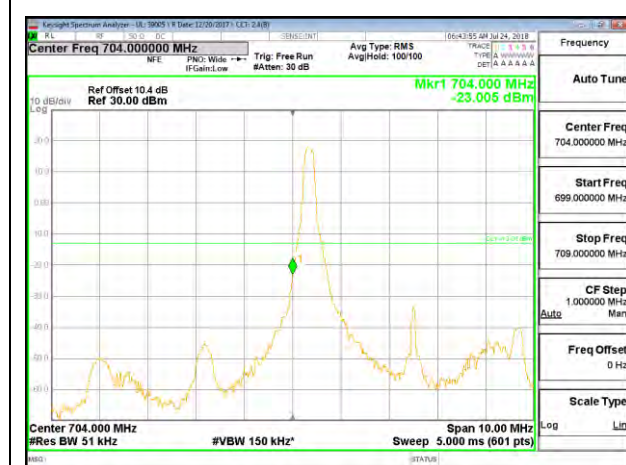


LTE B13 10MHz QPSK Mid Channel RB50-0

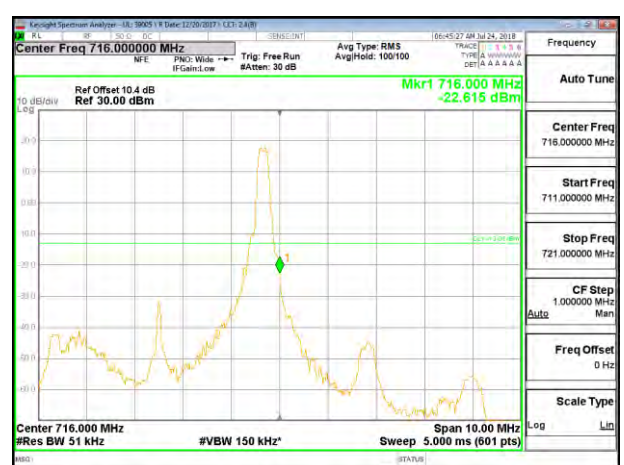


LTE B13 10MHz QPSK Mid Channel RB50-0

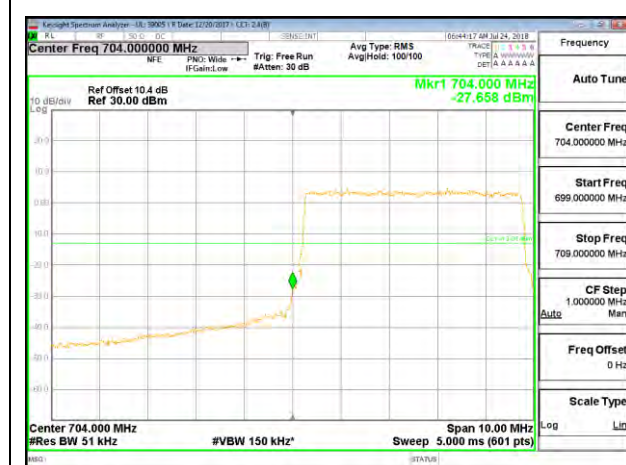
8.2.10. LTE BAND 17 BANDEDGE



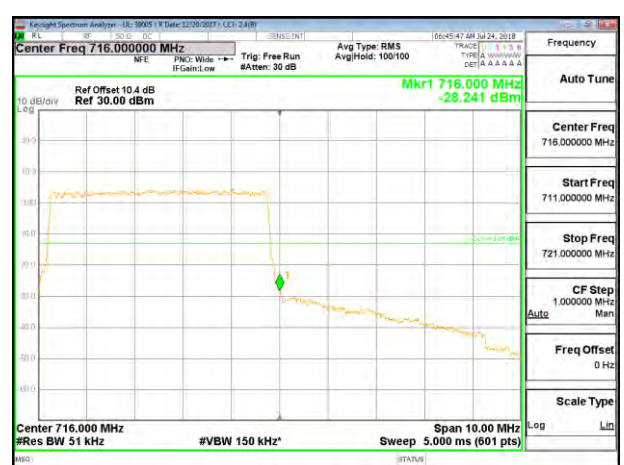
LTE B17 5MHz QPSK Low Channel RB1-0



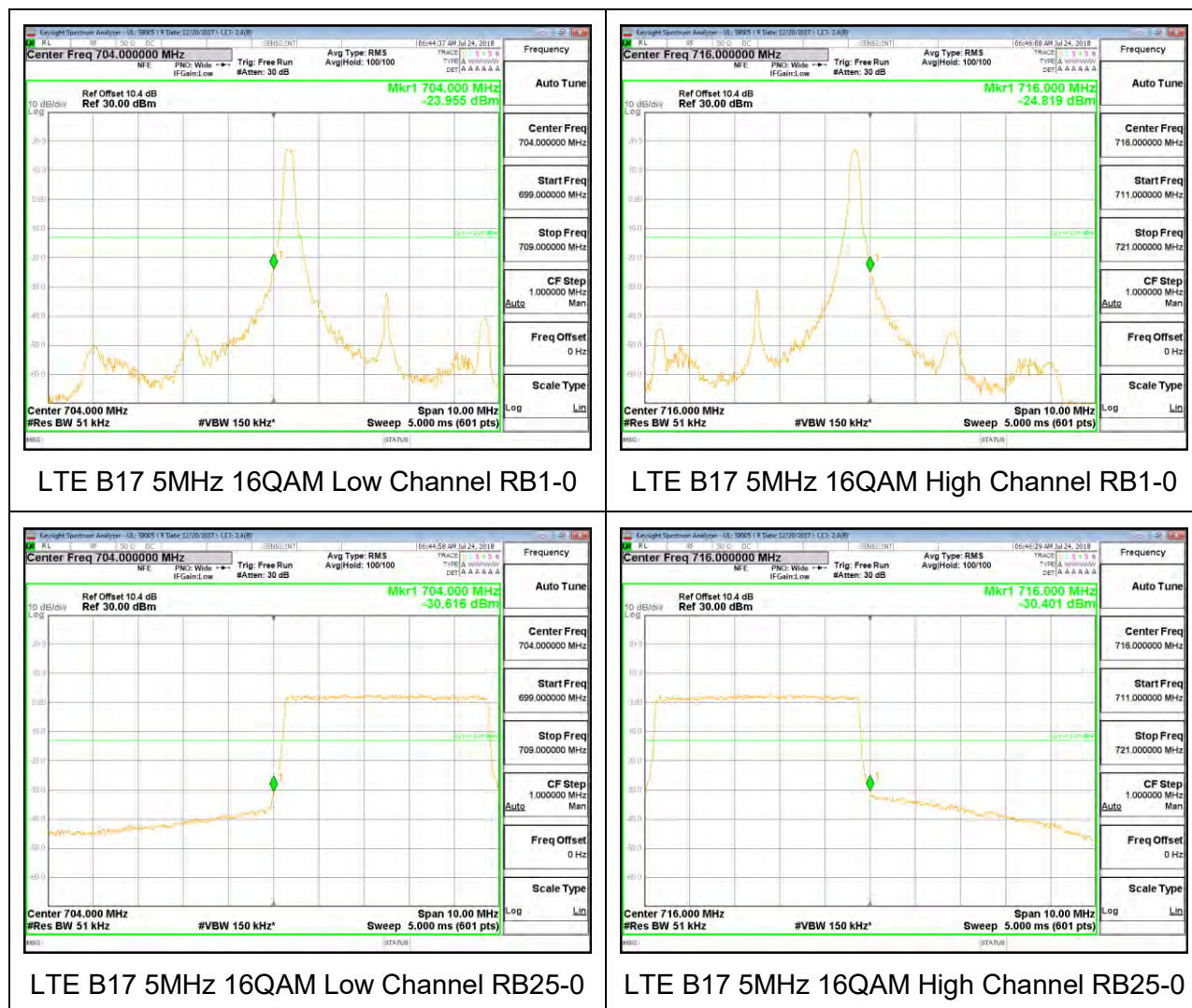
LTE B17 5MHz QPSK High Channel RB1-0

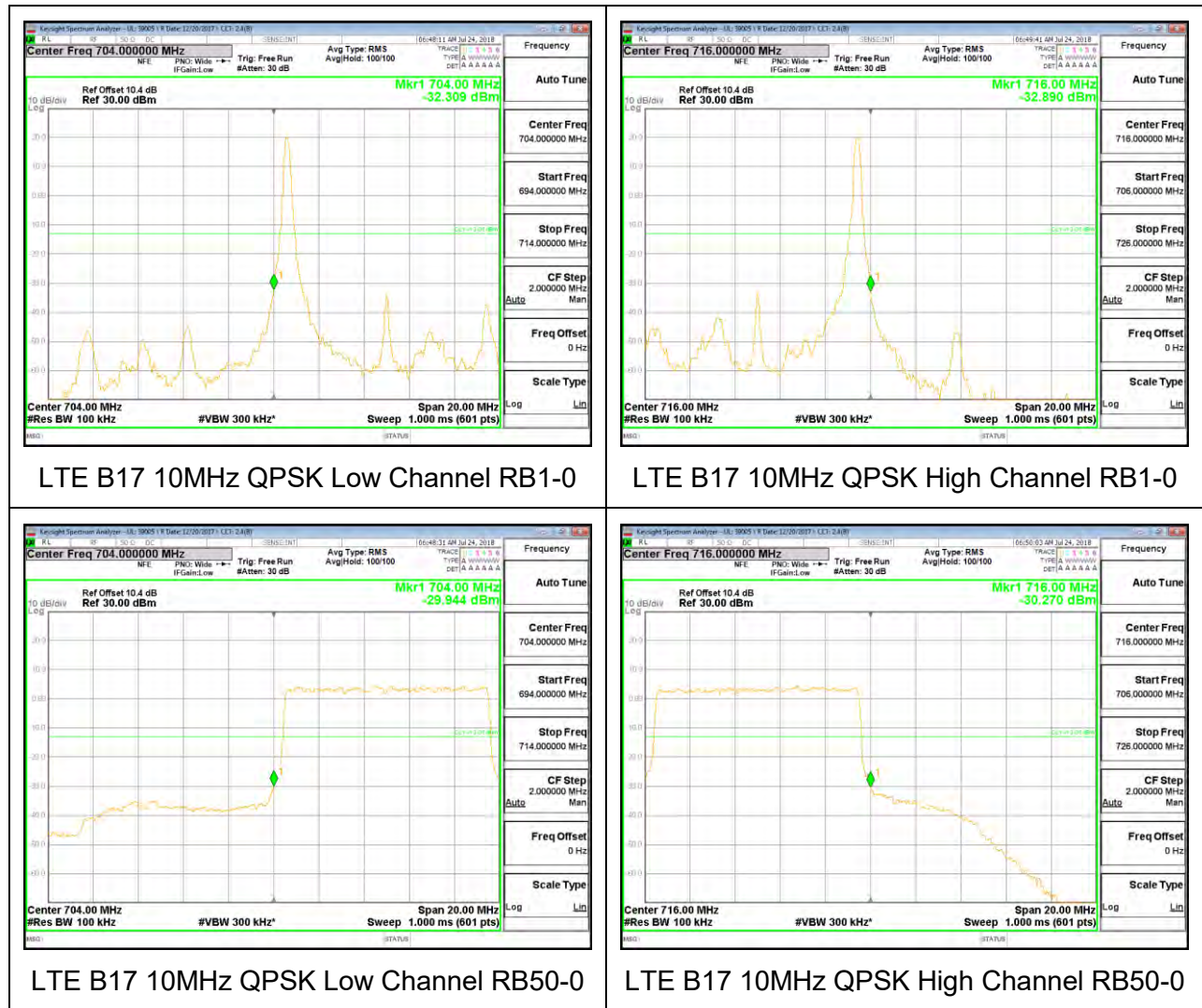


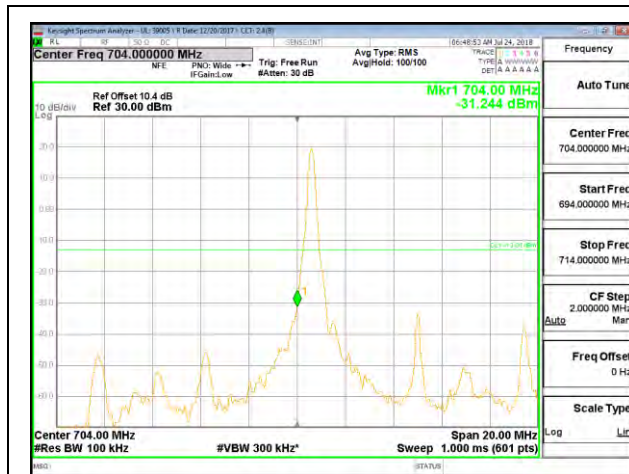
LTE B17 5MHz QPSK Low Channel RB25-0



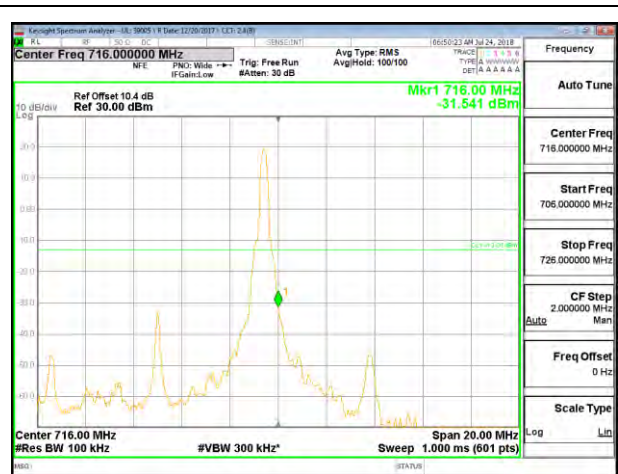
LTE B17 5MHz QPSK High Channel RB25-0



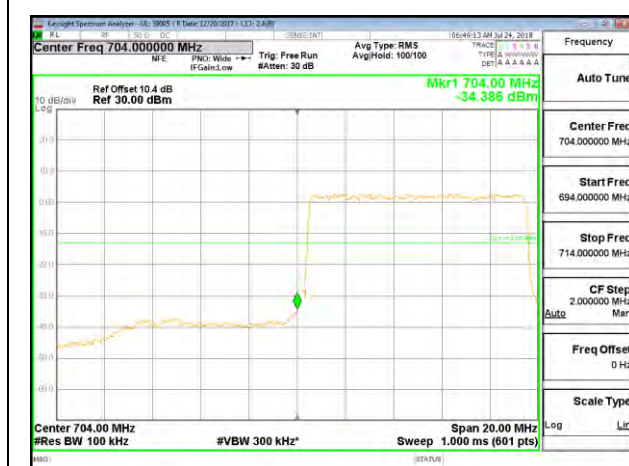




LTE B17 10MHz 16QAM Low Channel RB1-0



LTE B17 10MHz 16QAM High Channel RB1-0

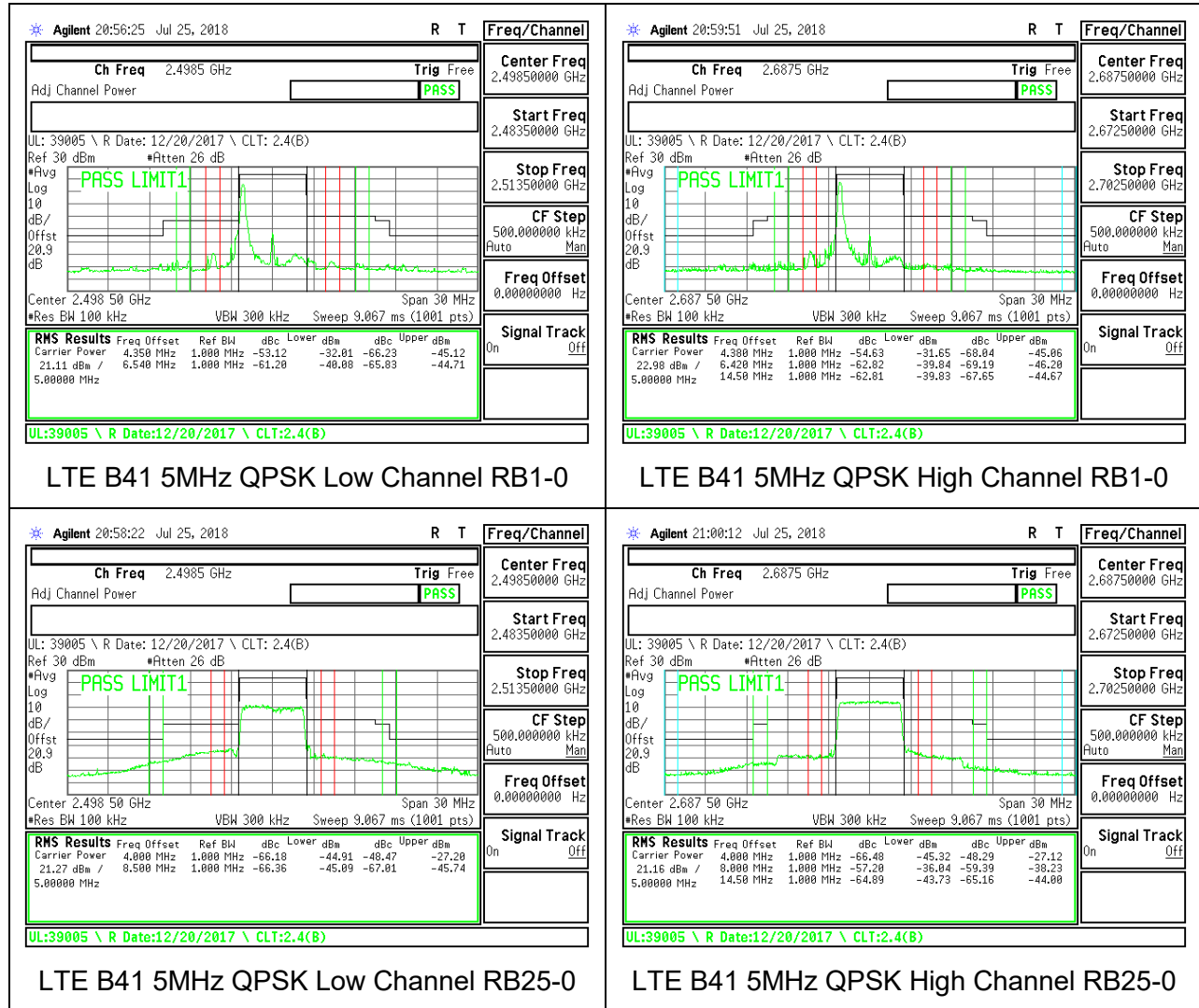


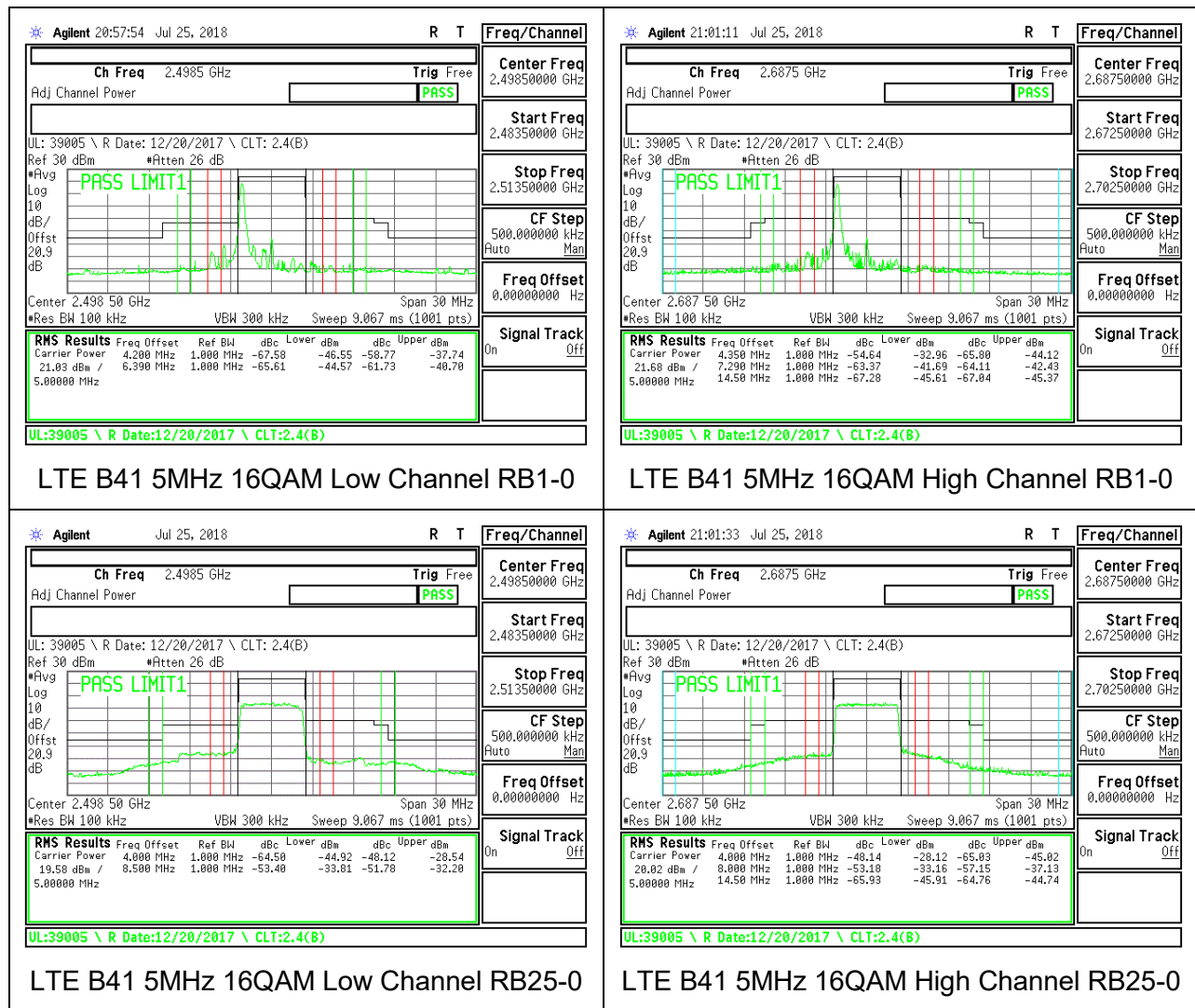
LTE B17 10MHz 16QAM Low Channel RB50-0

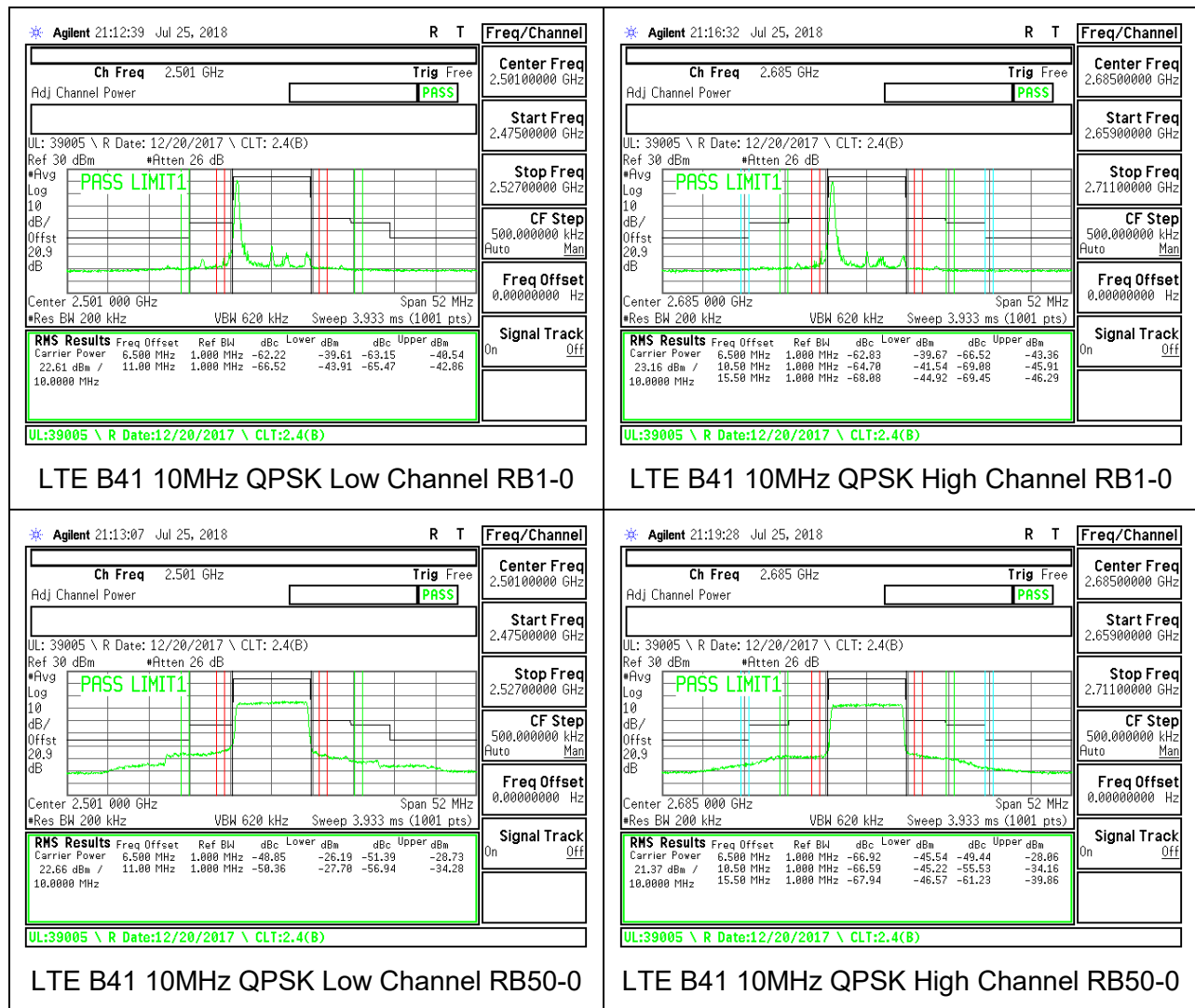


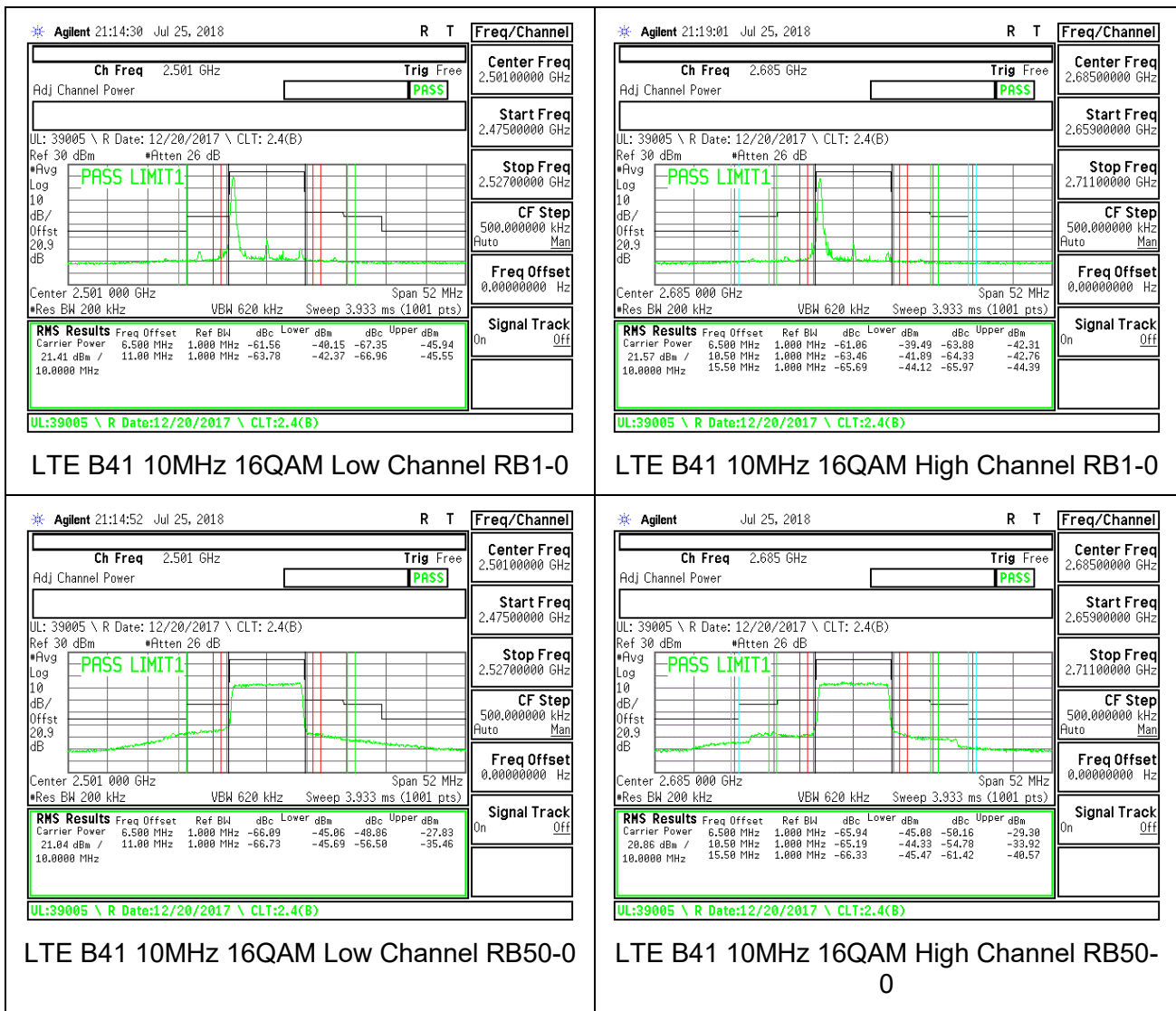
LTE B17 10MHz 16QAM High Channel RB50-0

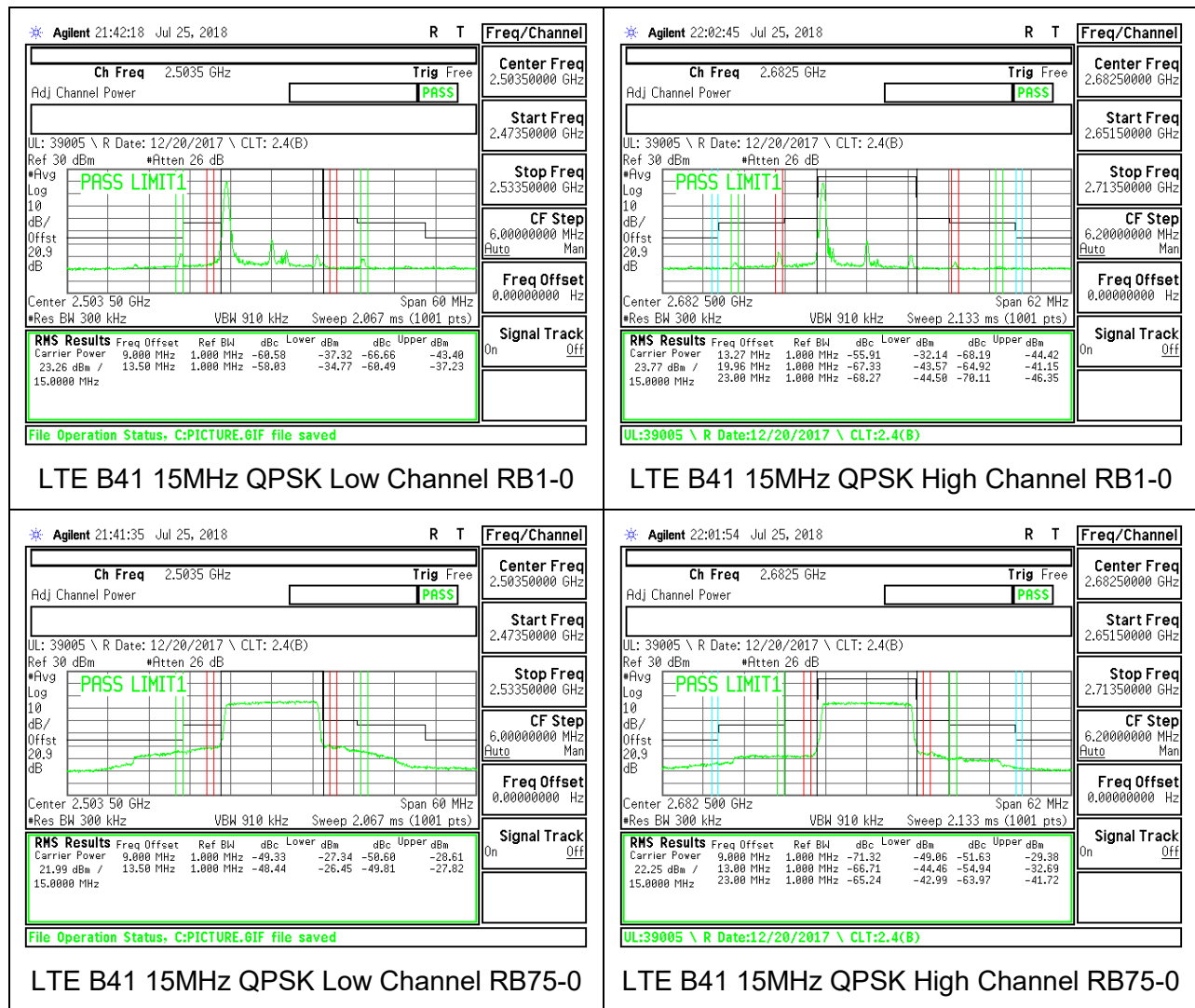
8.2.11. LTE BAND 41 ADJACENT CHANNEL POWER

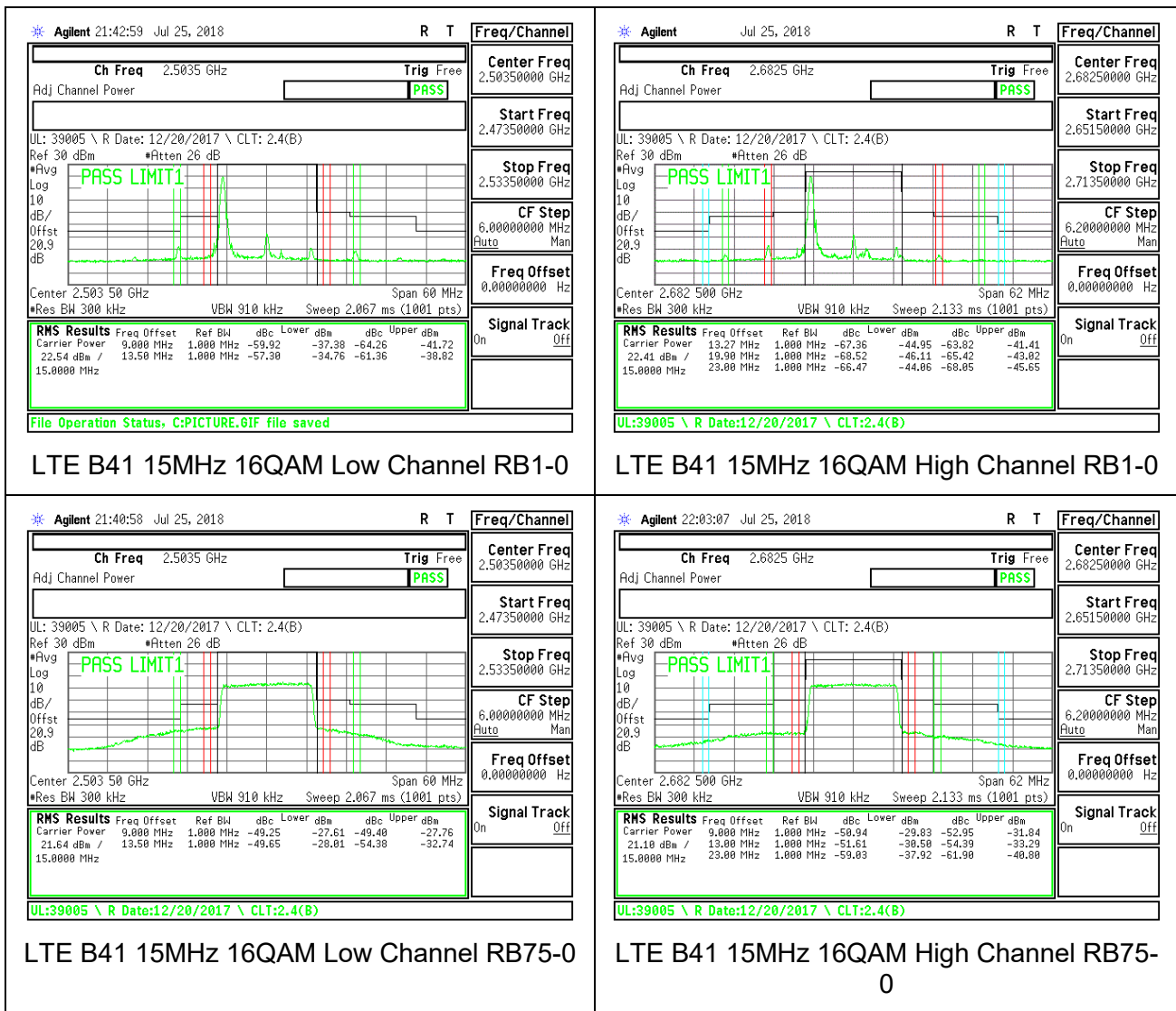


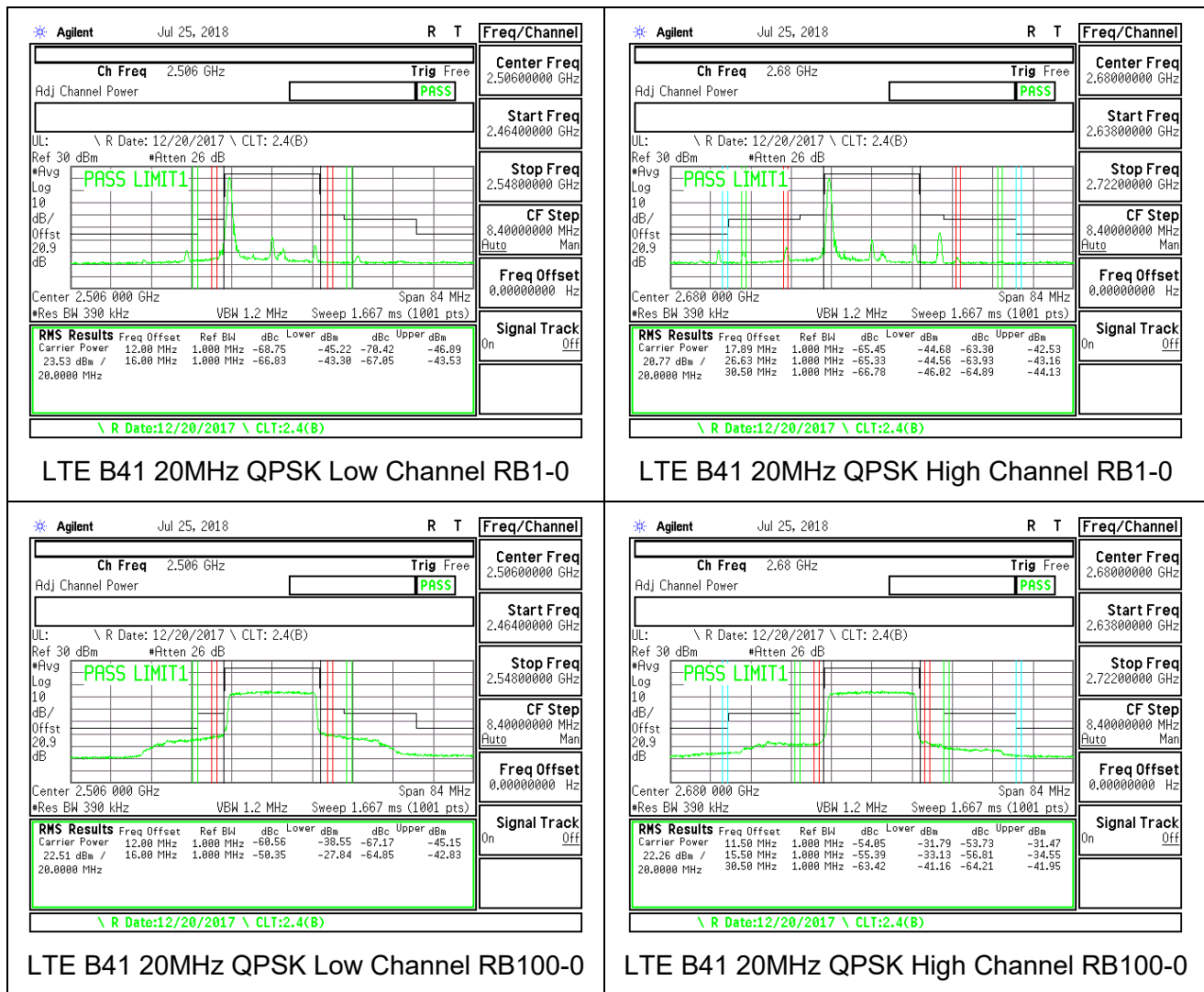


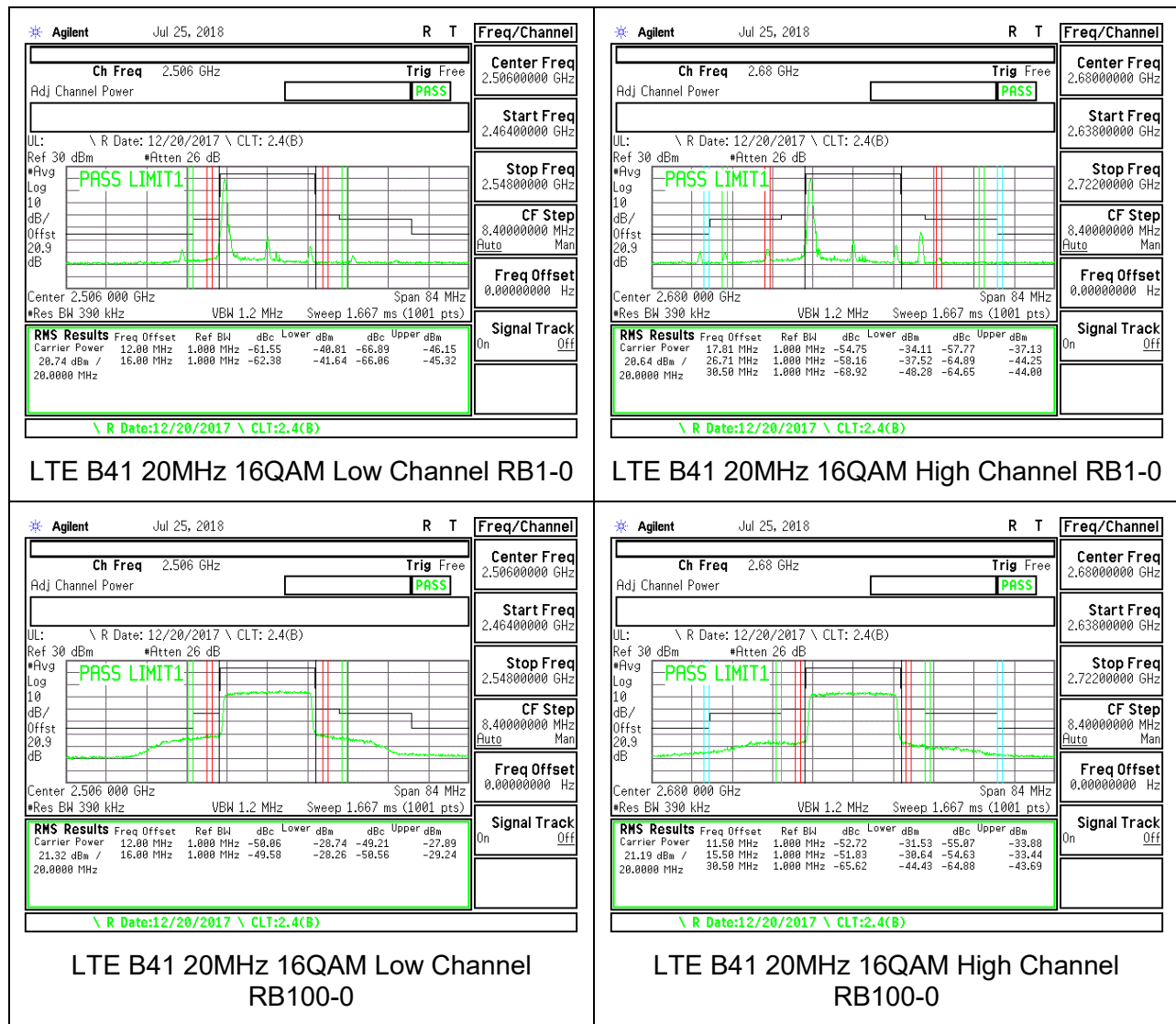












8.3. OUT OF BAND EMISSIONS

RULE PART(S)

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

LIMITS

FCC: §22.917, §24.238, §27.53 (c), (g), (h)

The minimum permissible attenuation level of any spurious emissions is $43 + 10 \log (P)$ dB where transmitting power (P) in Watts.

FCC: §27.53 (m) (Band 7, 41)

The minimum permissible attenuation level of any spurious emissions is $55 + 10 \log (P)$ dB where transmitting power (P) in Watts.

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, -25dBm and -40dBm according to the band Limit
- Set RBW & VBW to 100 kHz for the measurement below 1 GHz, and 1 MHz for the measurement above 1 GHz. (NOTE: Worst case set RBW/VBW to 1MHz/3MHz)

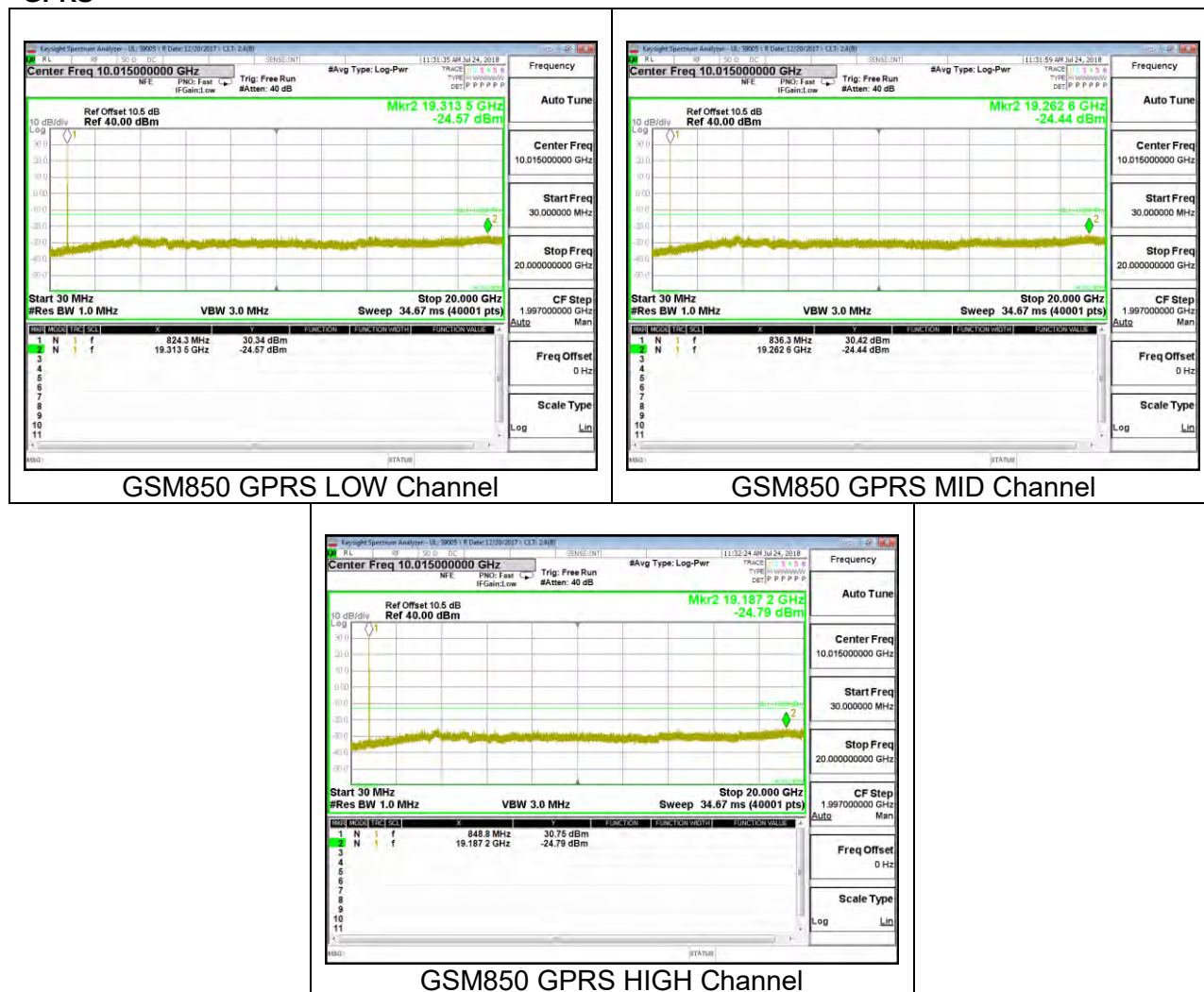
MODES TESTED

- GSM 850
- GSM 1900
- WCDMA Band 5
- WCDMA Band 2
- WCDMA Band 4
- LTE Band 4
- LTE Band 5
- LTE Band 7
- LTE Band 13
- LTE Band 17
- LTE Band 41

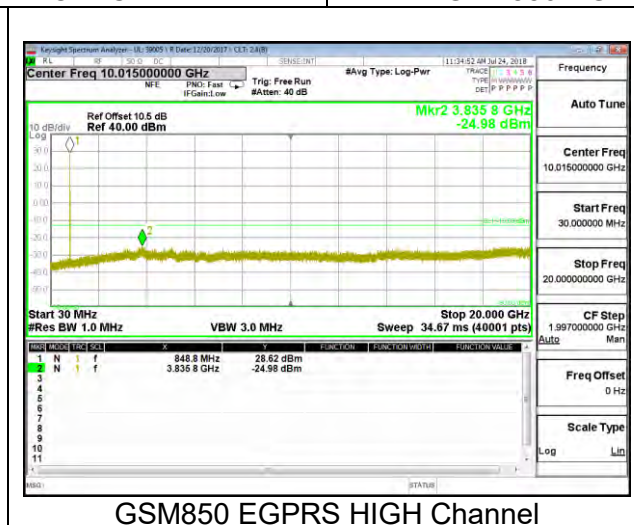
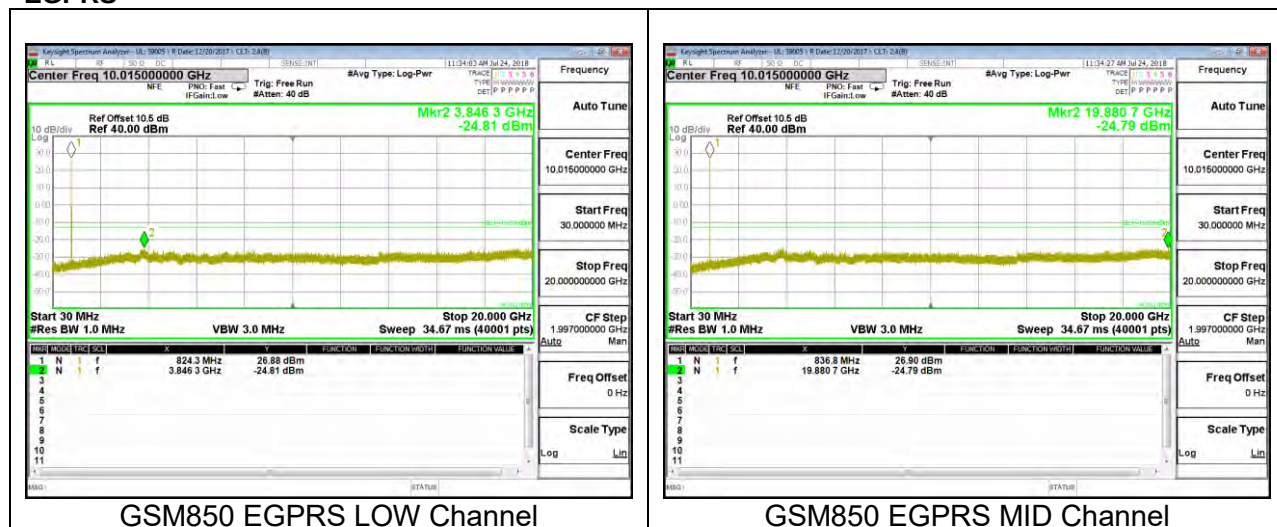
RESULTS

8.3.1. GSM GSM850

GPRS

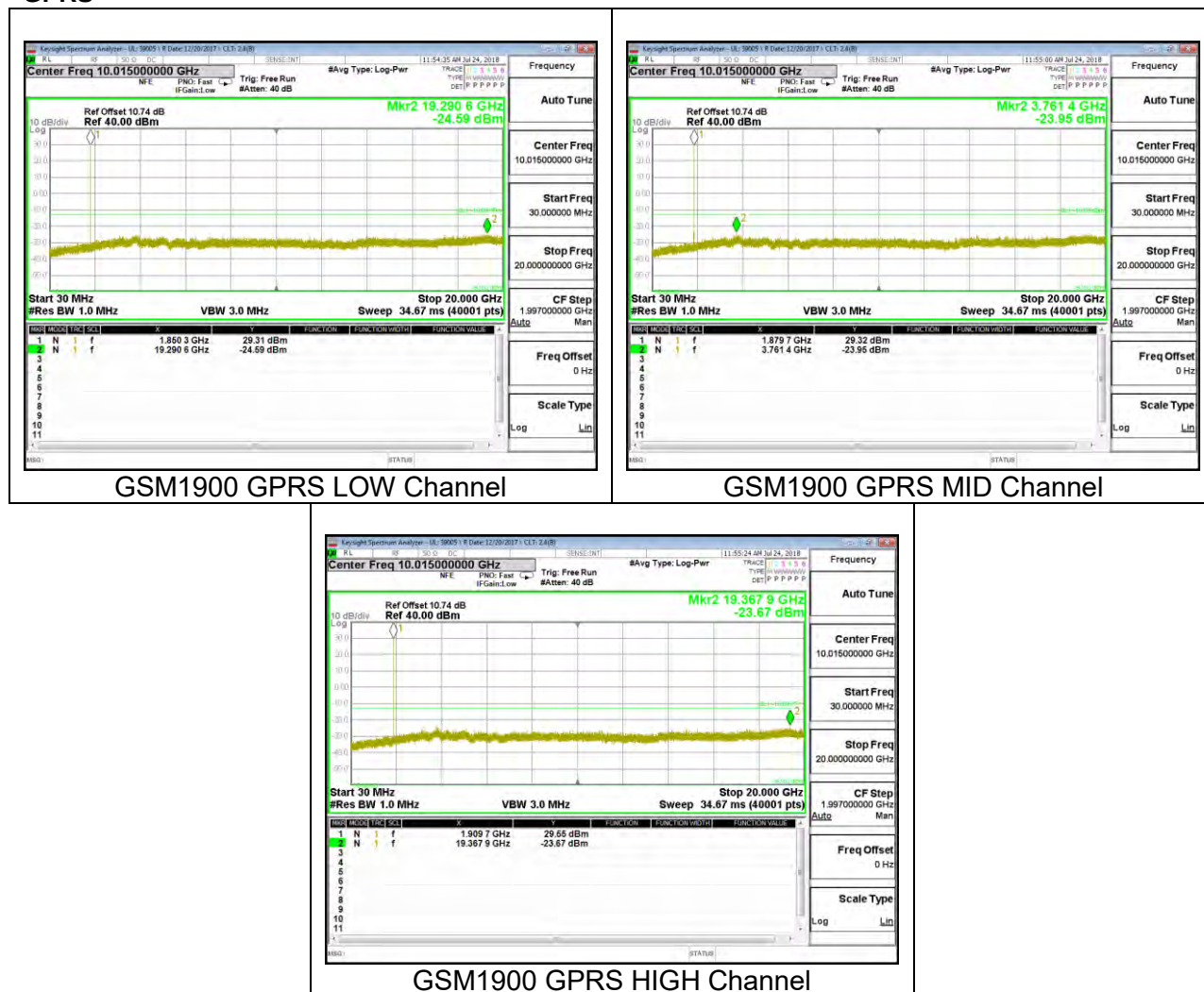


EGPRS

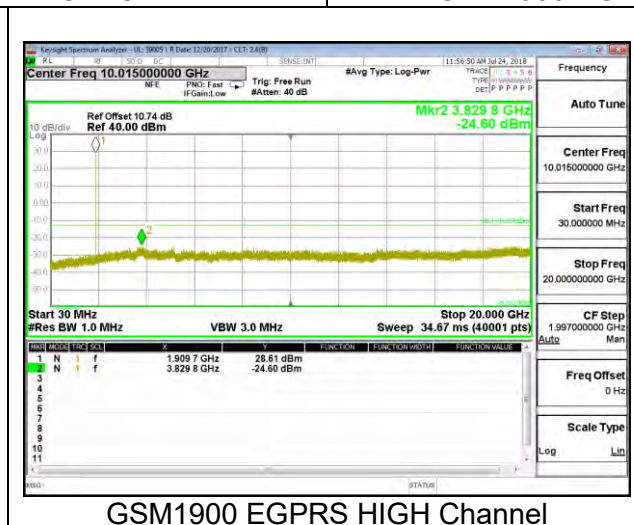
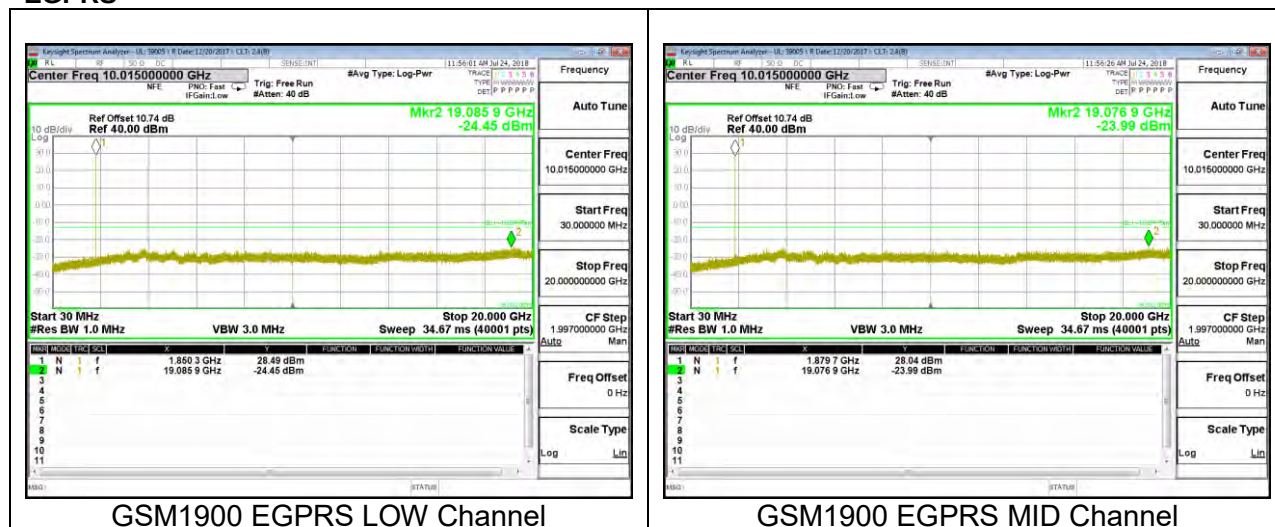


8.3.2. GSM GSM1900

GPRS



EGPRS

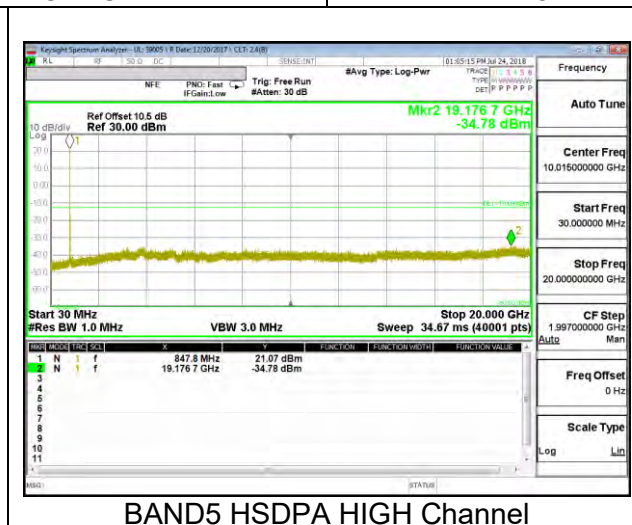
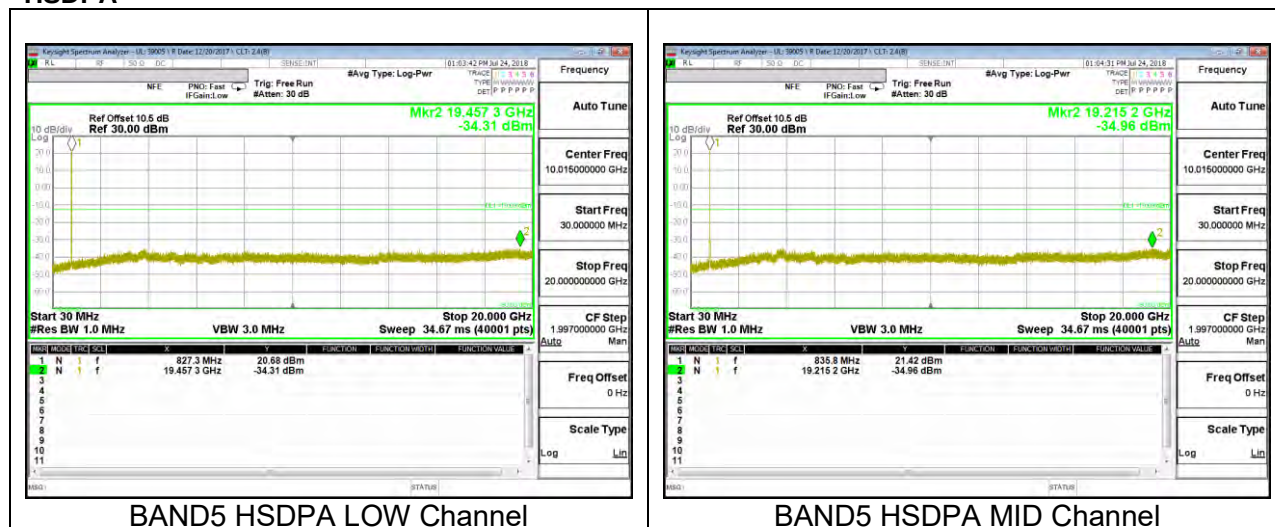


8.3.3. WCDMA BAND5

Rel99



HSDPA

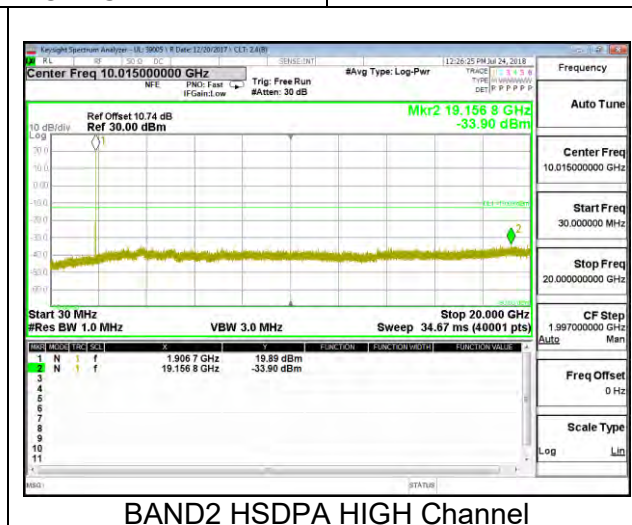
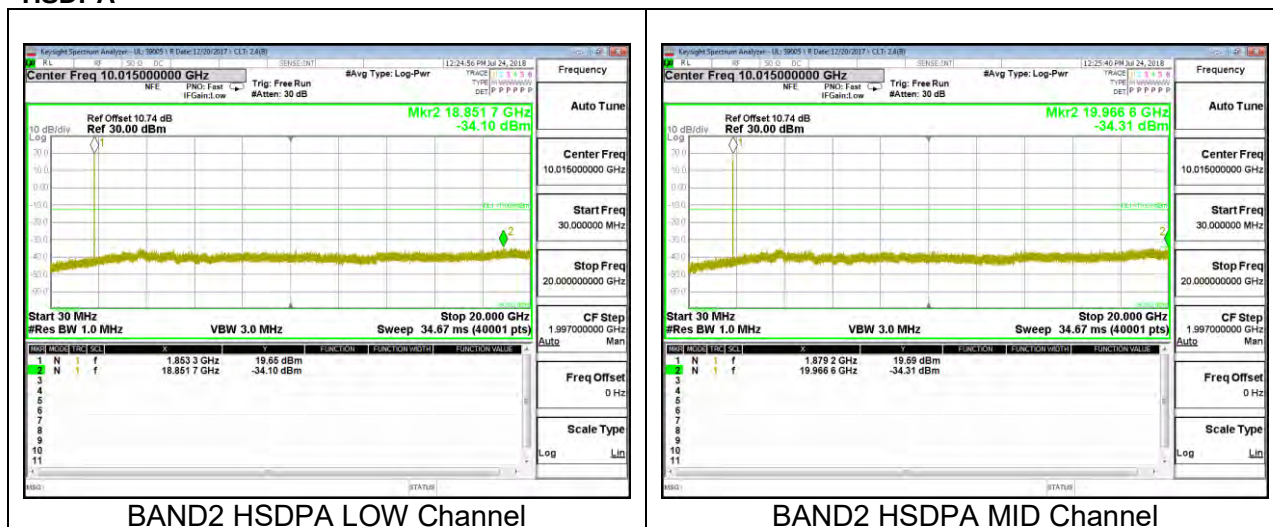


8.3.4. WCDMA BAND2

Rel99



HSDPA

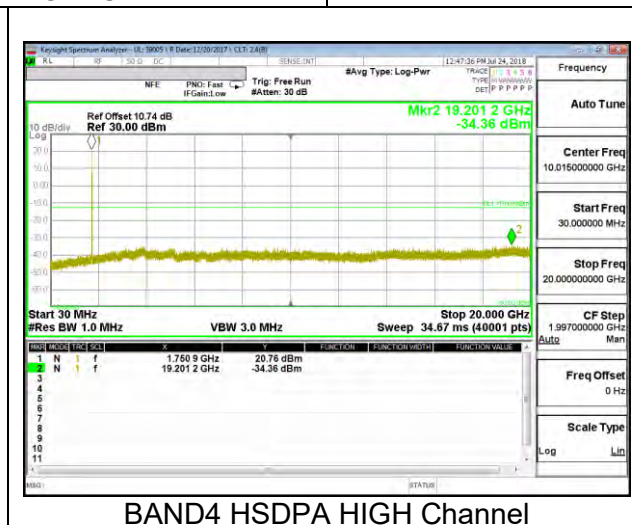
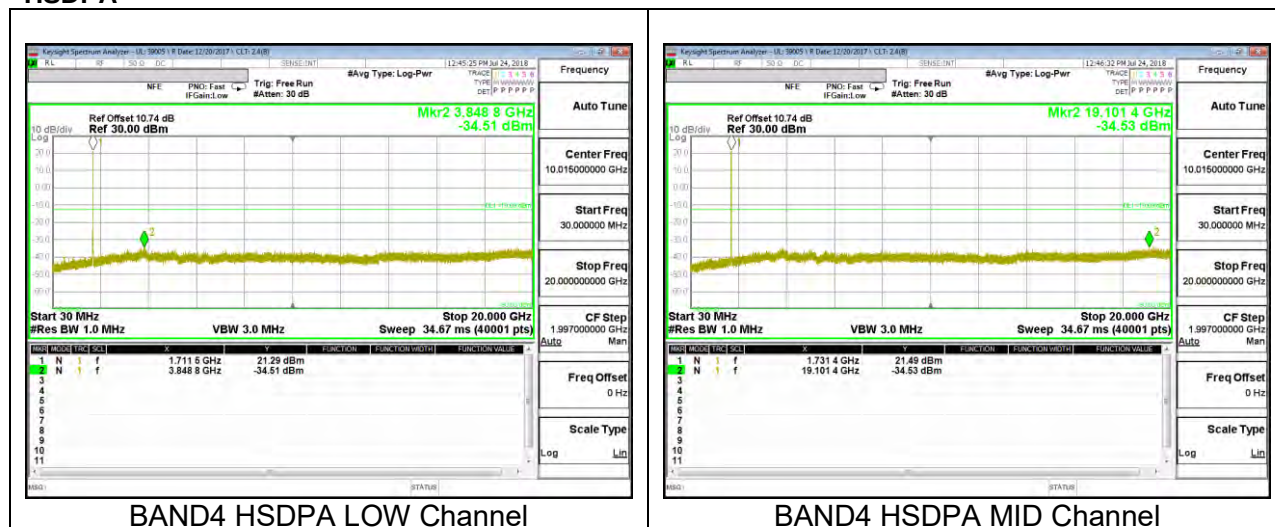


8.3.5. WCDMA BAND4

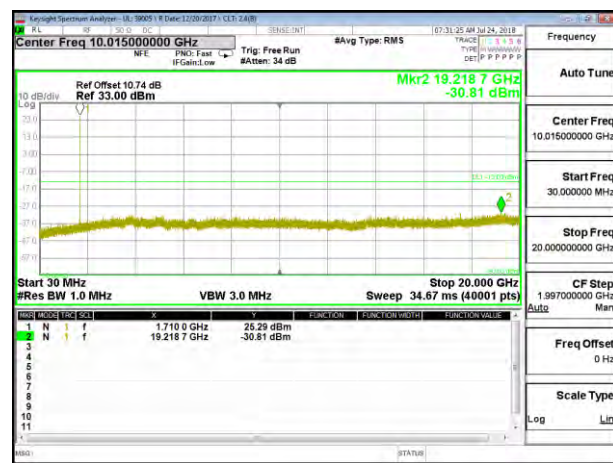
Rel99



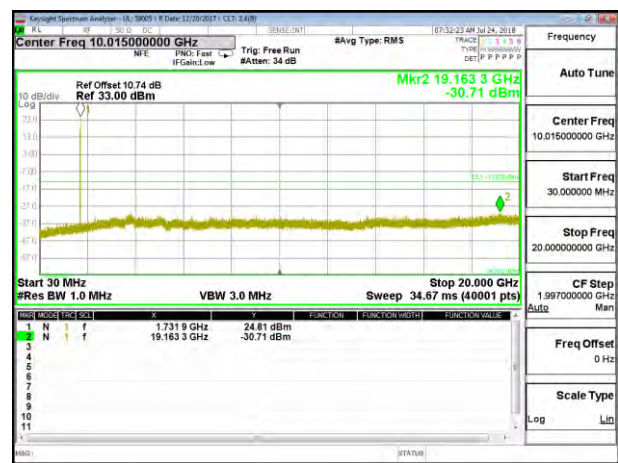
HSDPA



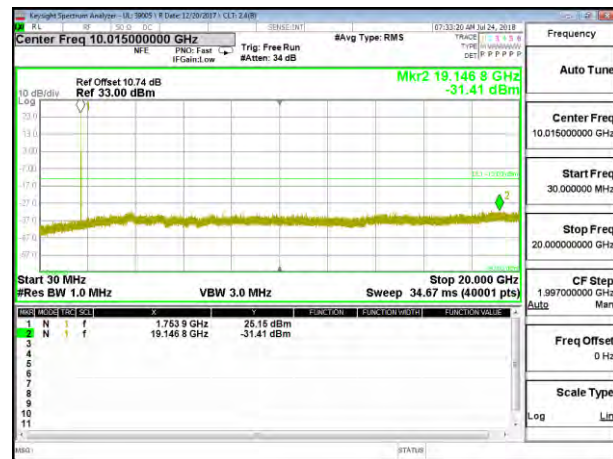
8.3.6. LTE BAND 4



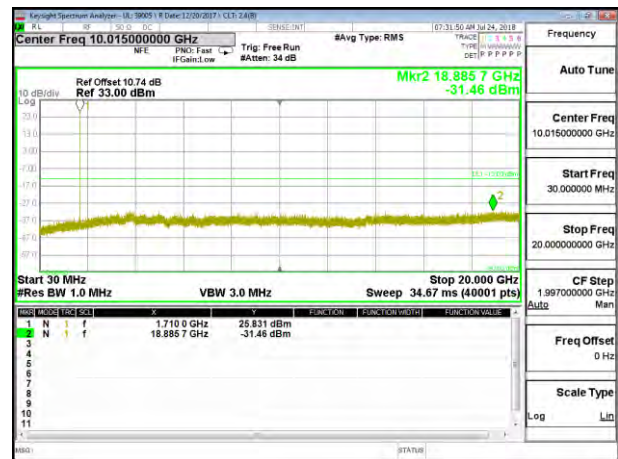
LTE B4 1.4MHz QPSK Low Channel RB1-0



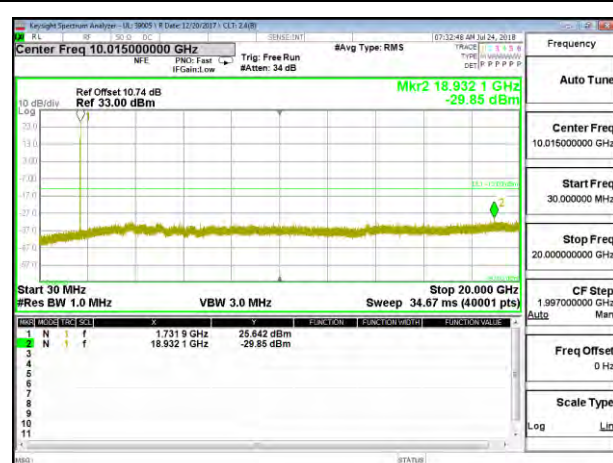
LTE B4 1.4MHz QPSK Mid Channel RB1-0



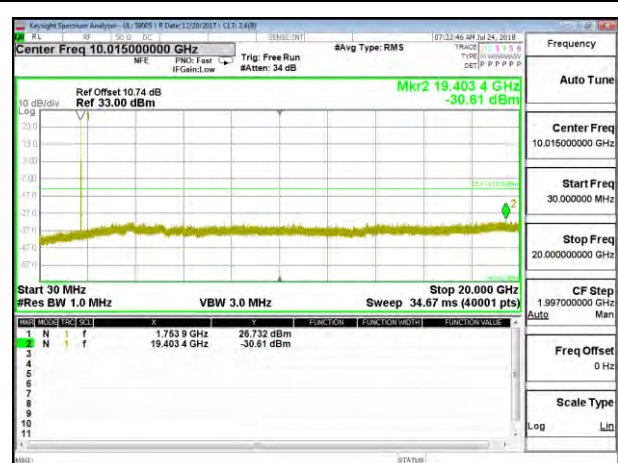
LTE B4 1.4MHz QPSK High Channel RB1-0



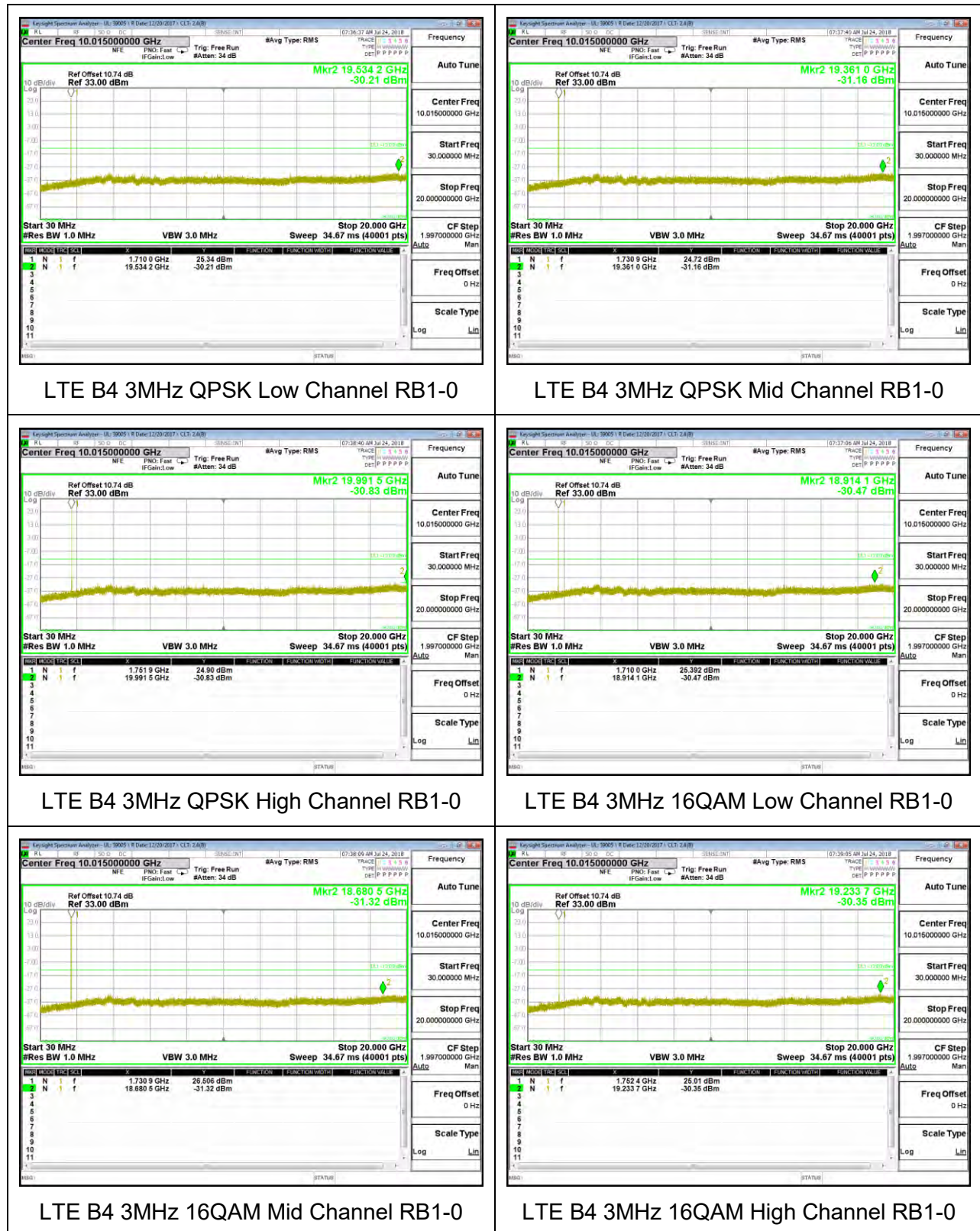
LTE B4 1.4MHz 16QAM Low Channel RB1-0

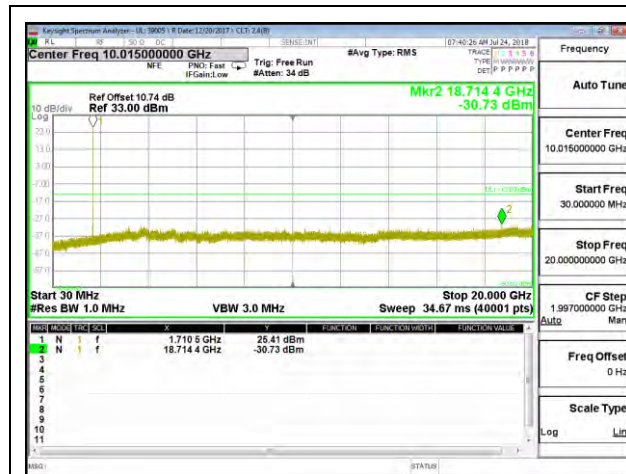


LTE B4 1.4MHz 16QAM Mid Channel RB1-0

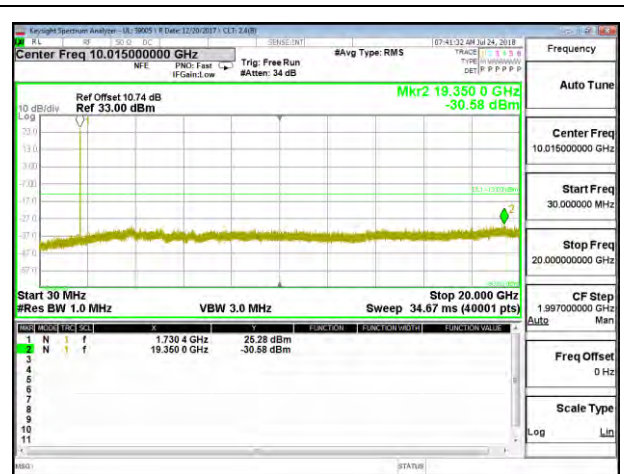


LTE B4 1.4MHz 16QAM High Channel RB1-0

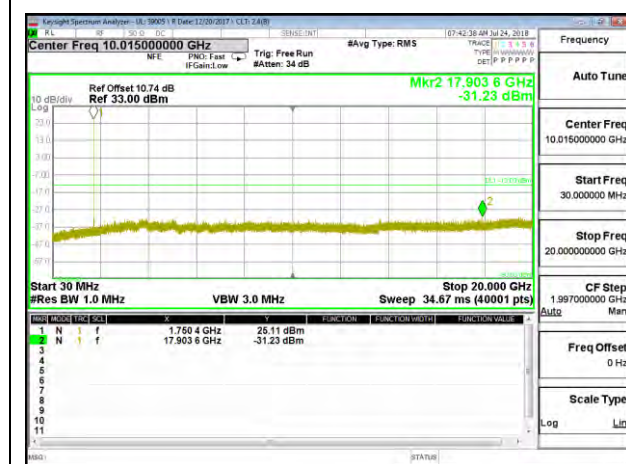




LTE B4 5MHz QPSK Low Channel RB1-0



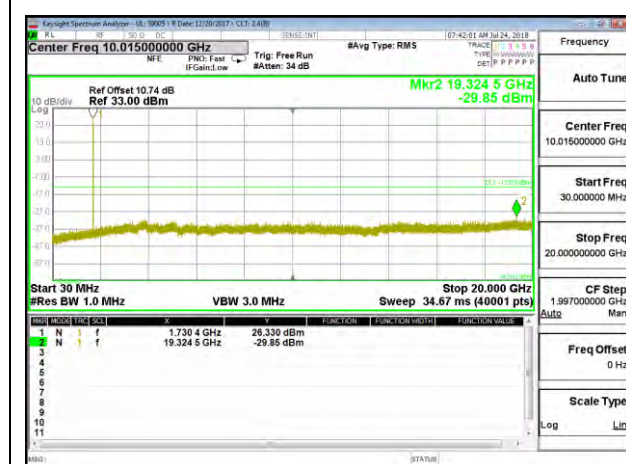
LTE B4 5MHz QPSK Mid Channel RB1-0



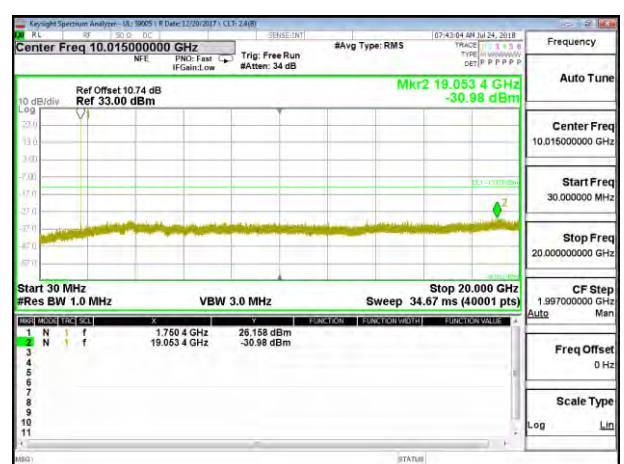
LTE B4 5MHz QPSK High Channel RB1-0



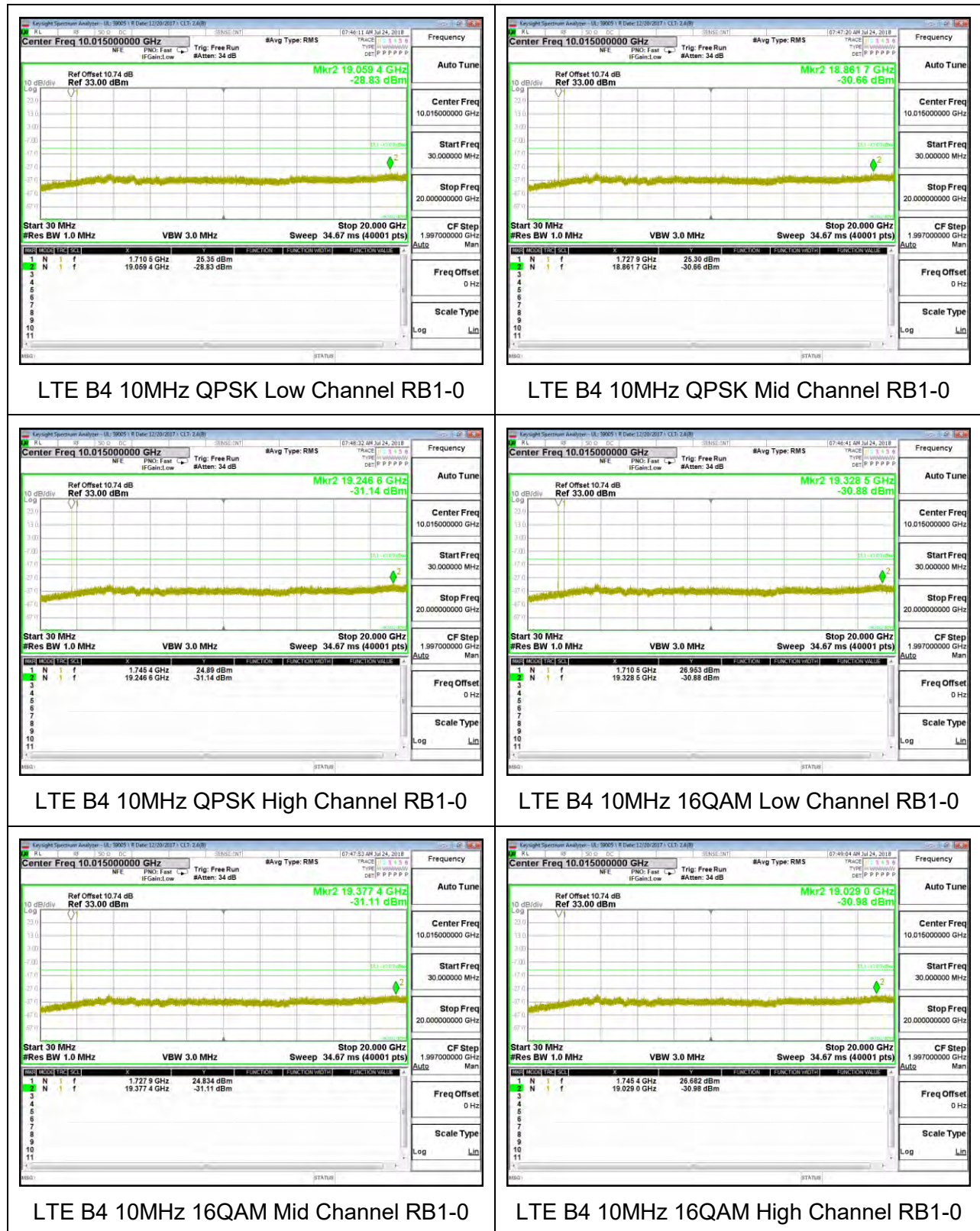
LTE B4 5MHz 16QAM Low Channel RB1-0

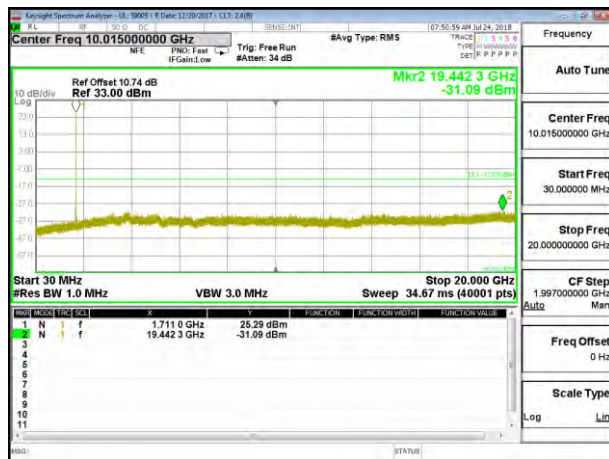


LTE B4 5MHz 16QAM Mid Channel RB1-0

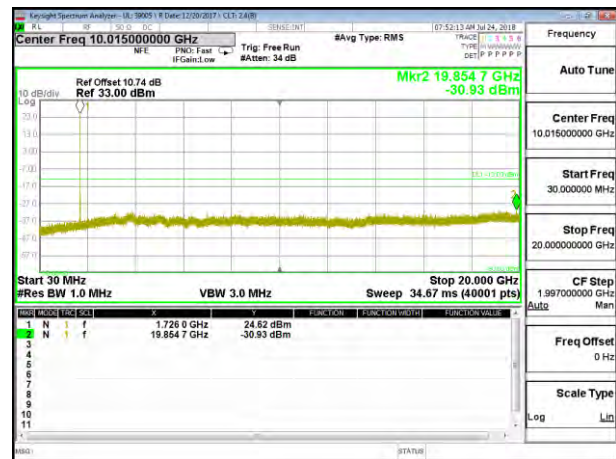


LTE B4 5MHz 16QAM High Channel RB1-0

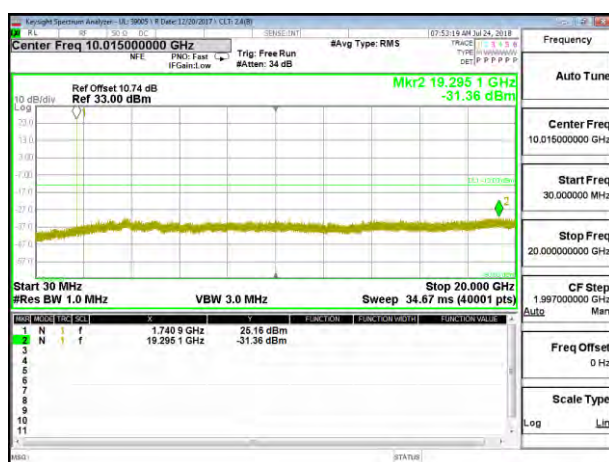




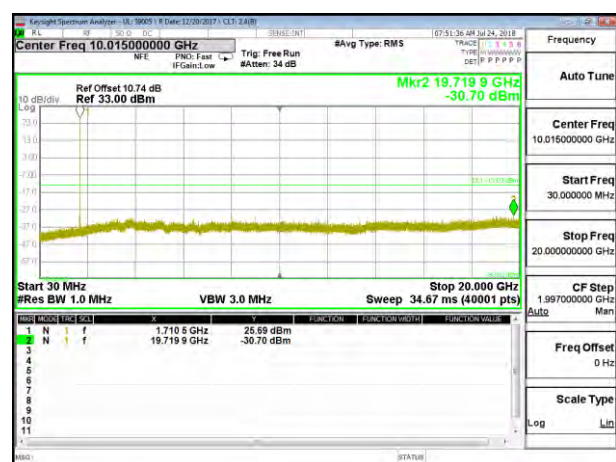
LTE B4 15MHz QPSK Low Channel RB1-0



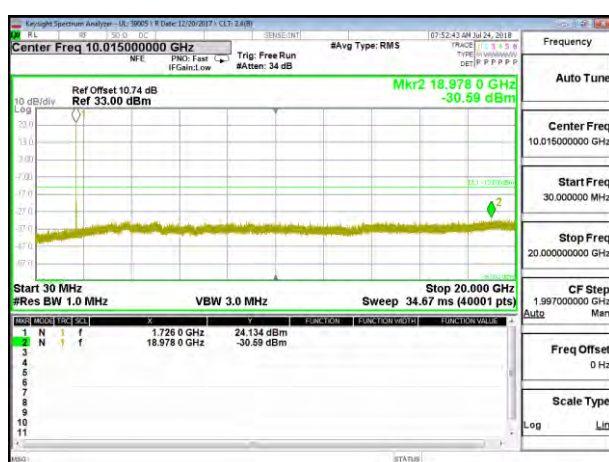
LTE B4 15MHz QPSK Mid Channel RB1-0



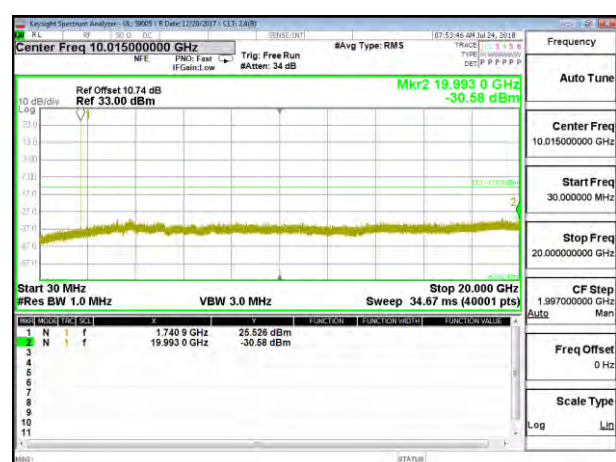
LTE B4 15MHz QPSK High Channel RB1-0



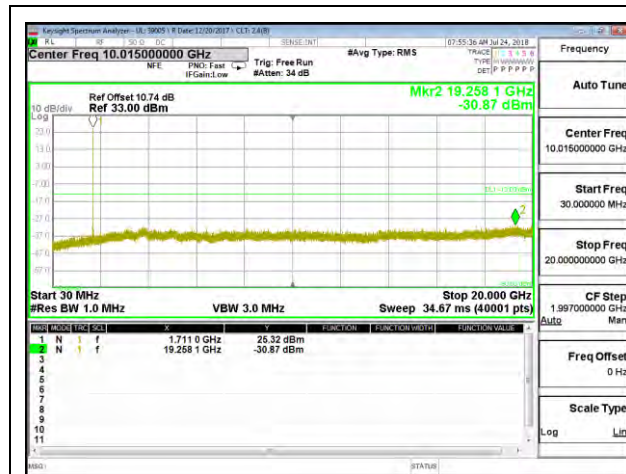
LTE B4 15MHz 16QAM Low Channel RB1-0



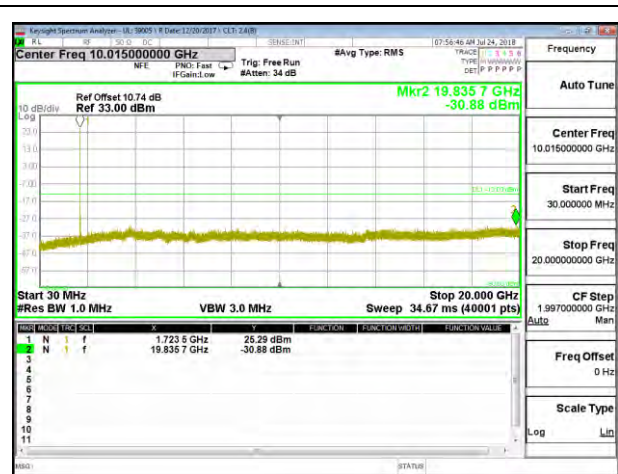
LTE B4 15MHz 16QAM Mid Channel RB1-0



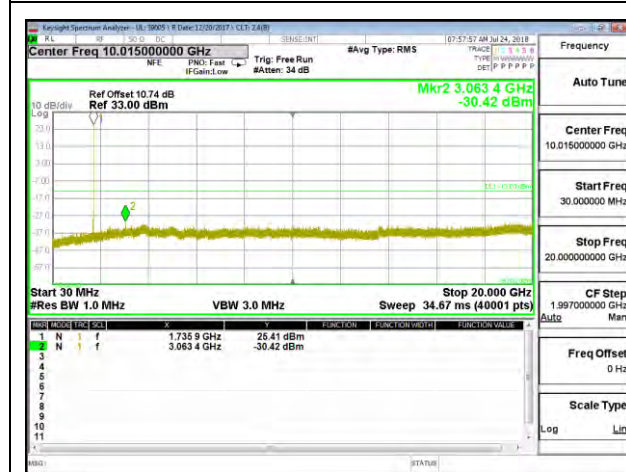
LTE B4 15MHz 16QAM High Channel RB1-0



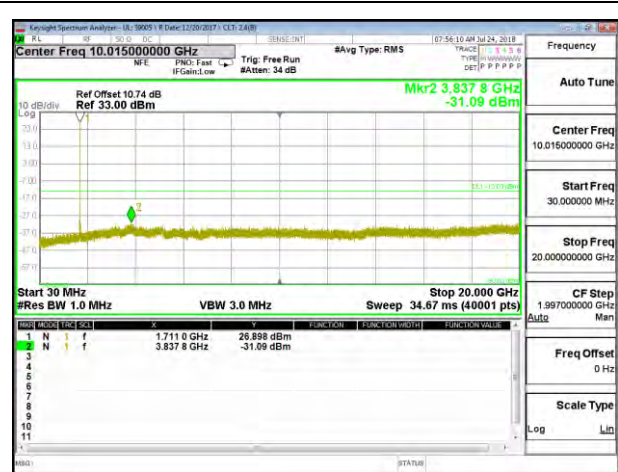
LTE B4 20MHz QPSK Low Channel RB1-0



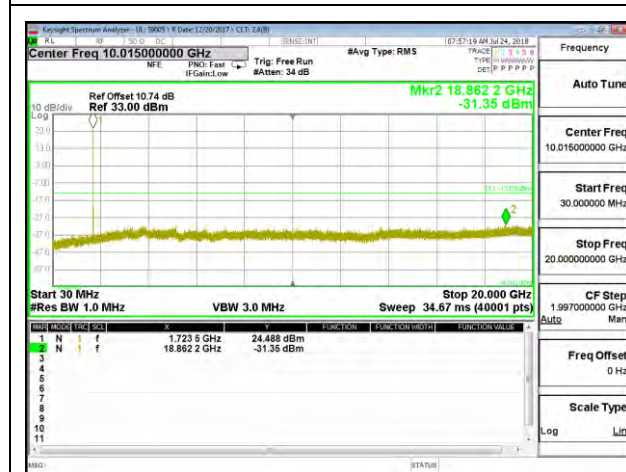
LTE B4 20MHz QPSK Mid Channel RB1-0



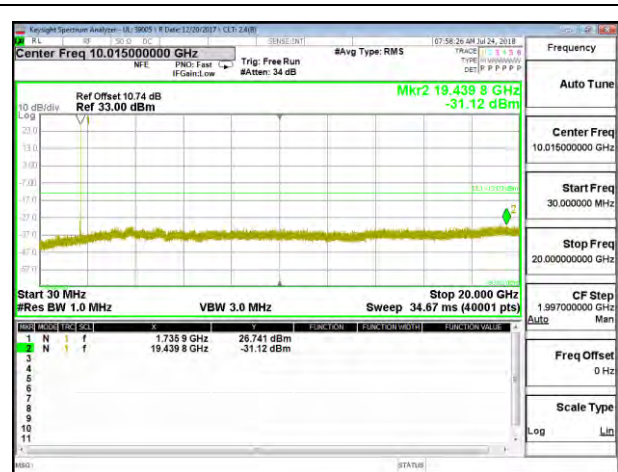
LTE B4 20MHz QPSK High Channel RB1-0



LTE B4 20MHz 16QAM Low Channel RB1-0



LTE B4 20MHz 16QAM Mid Channel RB1-0



LTE B4 20MHz 16QAM High Channel RB1-0