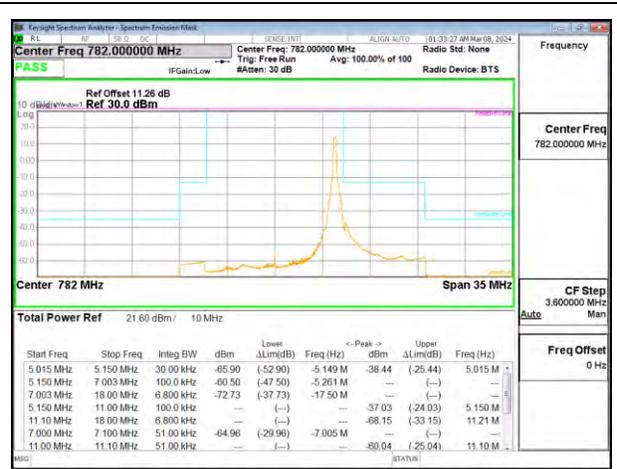
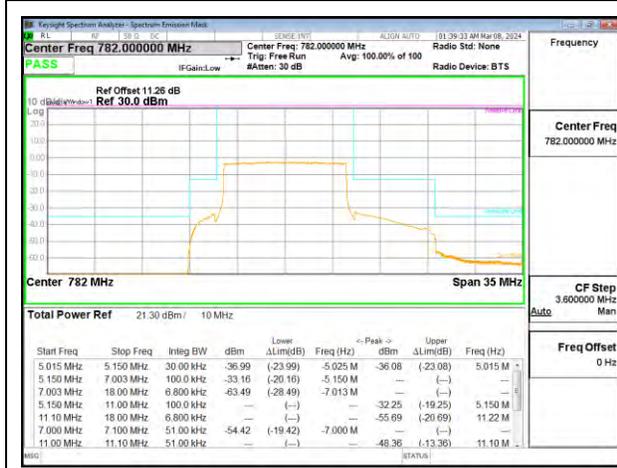


LTE Band 13 10MHz 16QAM Low Channel RB1-0



LTE Band 13 10MHz 16QAM Low Channel RB1-49



LTE Band 13 10MHz 16QAM Low Channel RB50-0

LEFT BLANK

### 9.2.5. LTE BAND 41 AND 5G NR n41 EMISSION MASK

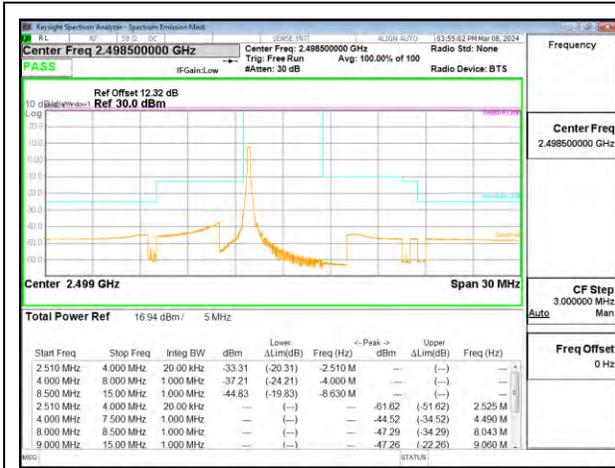
#### LIMITS

FCC: §27.53

(m)(4) For mobile digital stations, the attenuation factor shall be not less than  $40 + 10 \log (P)$  dB on all frequencies between the channel edge and 5 megahertz from the channel edge,  $43 + 10 \log (P)$  dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and  $55 + 10 \log (P)$  dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than  $43 + 10 \log (P)$  dB on all frequencies between 2490.5 MHz and 2496 MHz and  $55 + 10 \log (P)$  dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

<b>Test Engineer ID:</b>	85502	<b>Test Date:</b>	2024-03-06	<b>EUT Serial Number:</b>	QV7700DSLQ
--------------------------	-------	-------------------	------------	---------------------------	------------

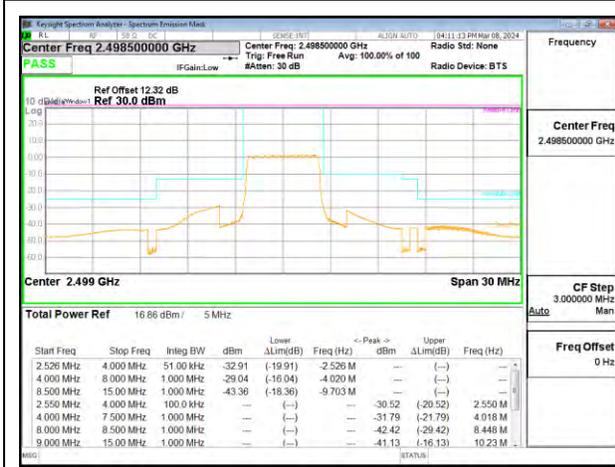
LTE BAND 41



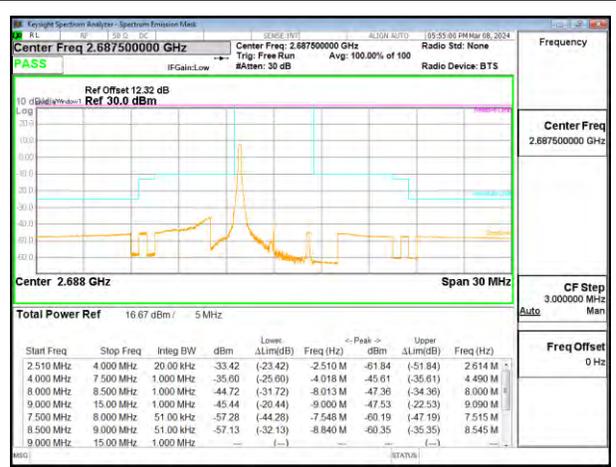
LTE Band 41 5MHz 16QAM Low Channel RB1-0



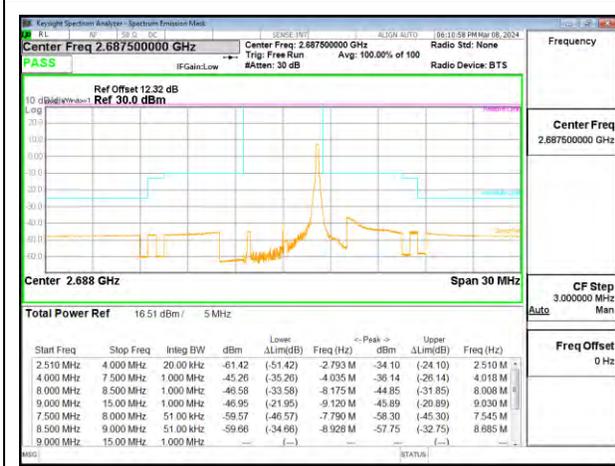
LTE Band 41 5MHz 16QAM Low Channel RB1-24



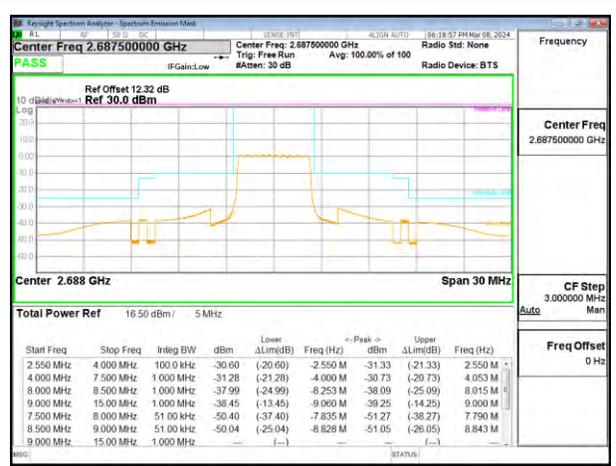
LTE Band 41 5MHz 16QAM Low Channel RB25-0



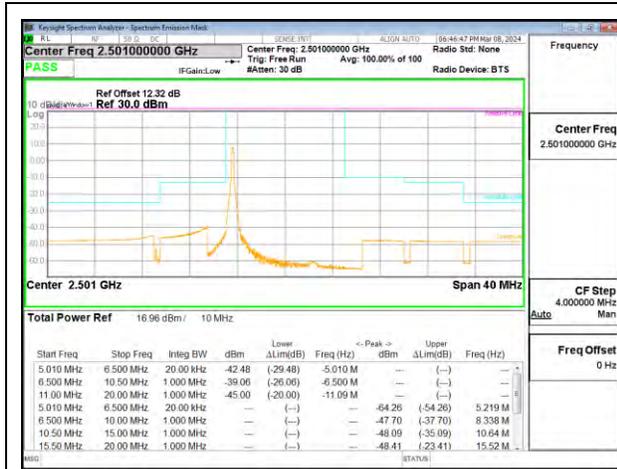
LTE Band 41 5MHz 16QAM High Channel RB1-0



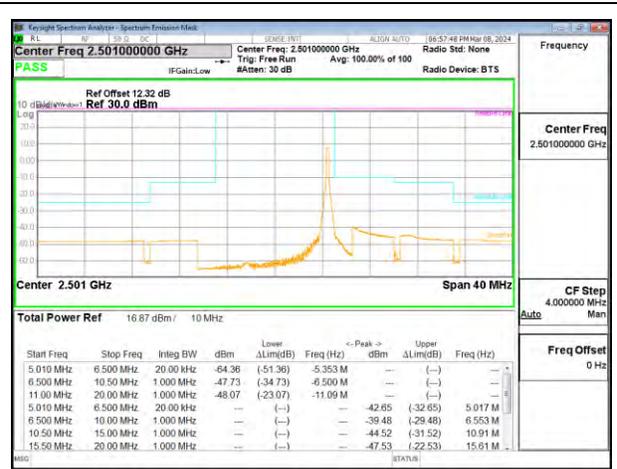
LTE Band 41 5MHz 16QAM High Channel RB1-24



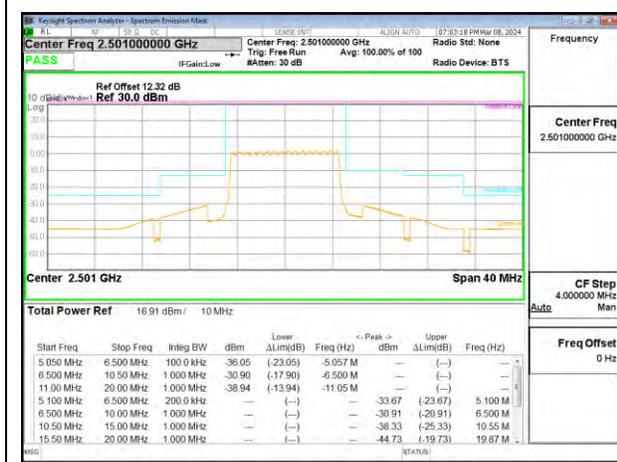
LTE Band 41 5MHz 16QAM High Channel RB25-0



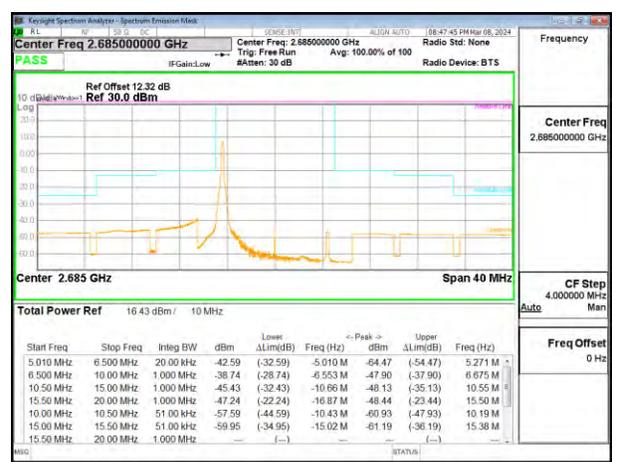
LTE Band 41 10MHz 16QAM Low Channel RB1-0



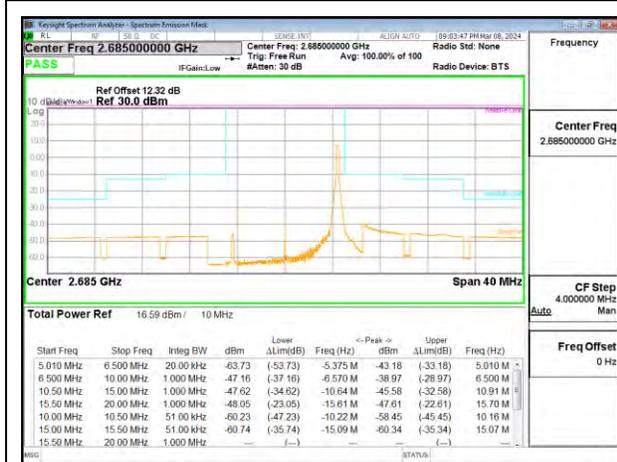
LTE Band 41 10MHz 16QAM Low Channel RB1-49



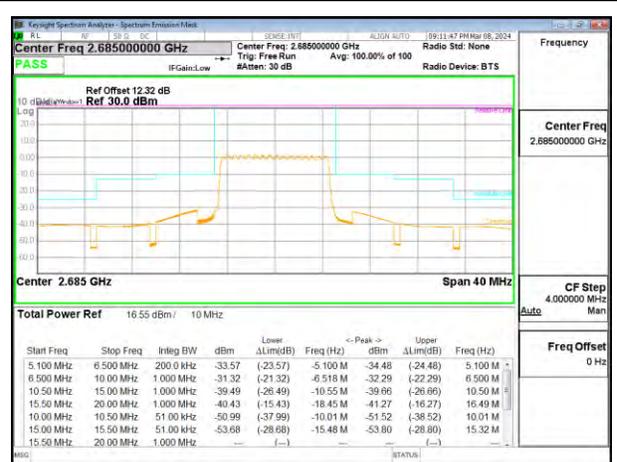
LTE Band 41 10MHz 16QAM Low Channel RB50-0



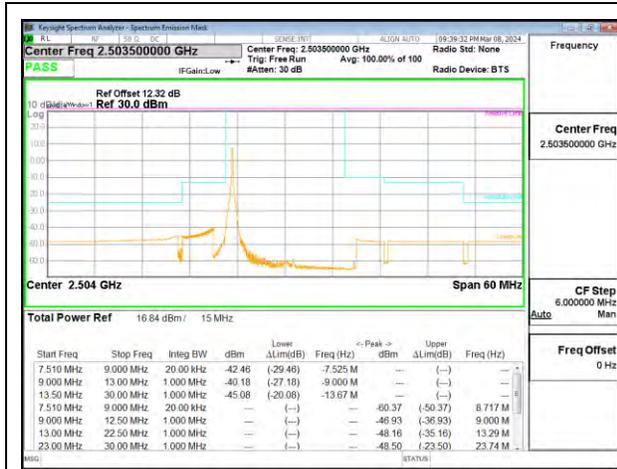
LTE Band 41 10MHz 16QAM High Channel RB1-0



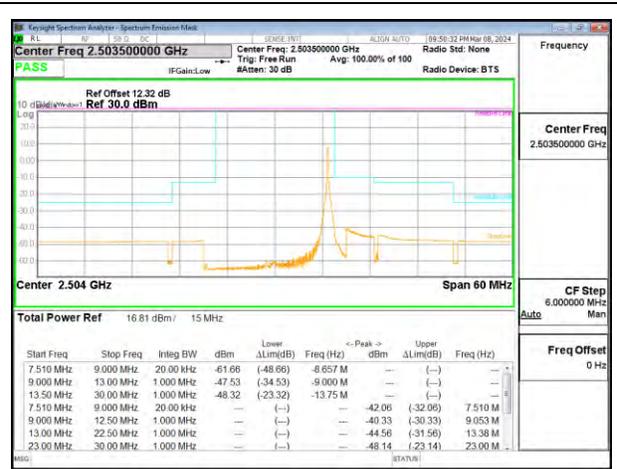
LTE Band 41 10MHz 16QAM High Channel RB1-49



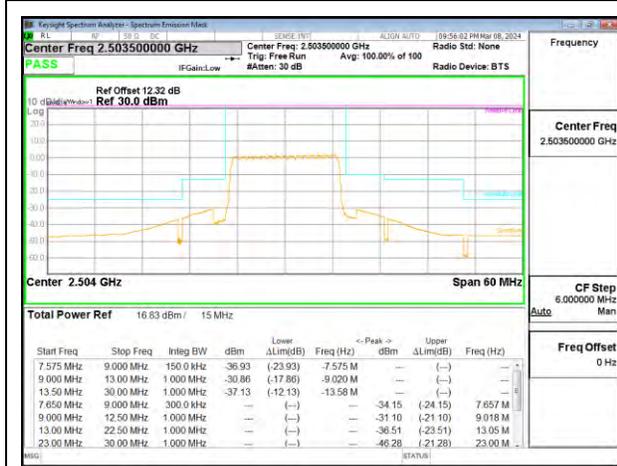
LTE Band 41 10MHz 16QAM High Channel RB50-0



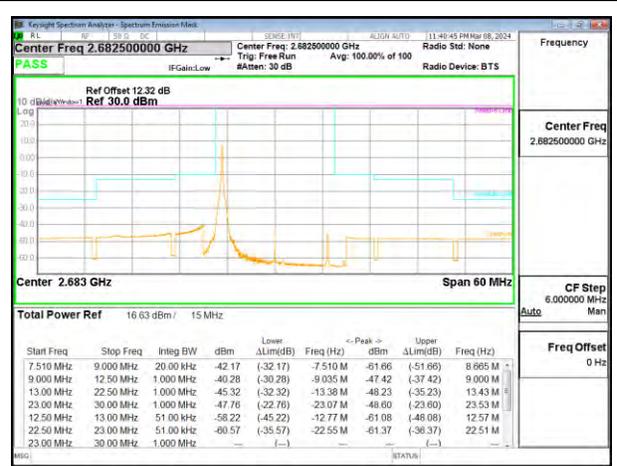
LTE Band 41 15MHz 16QAM Low Channel RB1-0



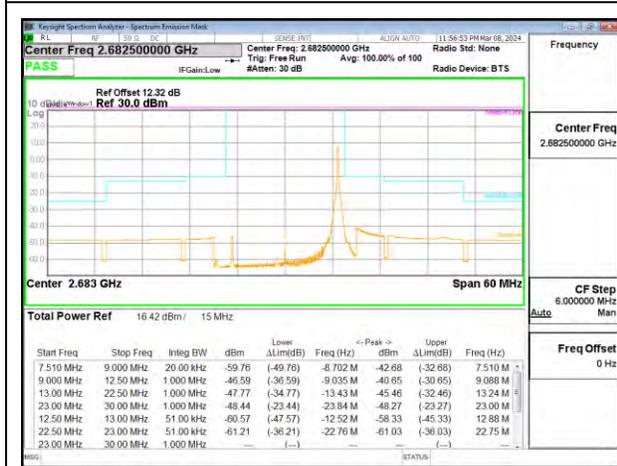
LTE Band 41 15MHz 16QAM Low Channel RB1-74



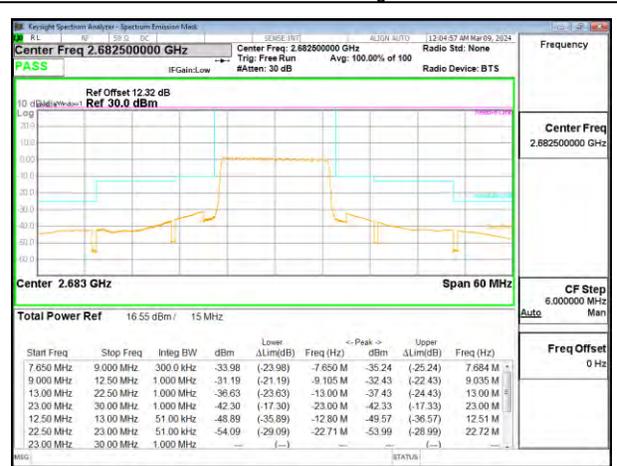
LTE Band 41 15MHz 16QAM Low Channel RB75-0



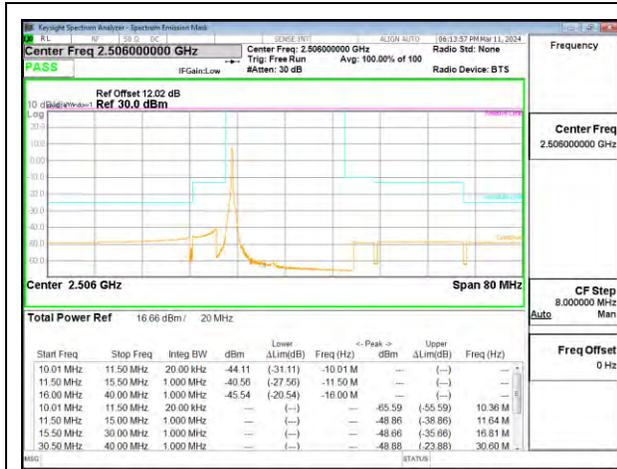
LTE Band 41 15MHz 16QAM High Channel RB1-0



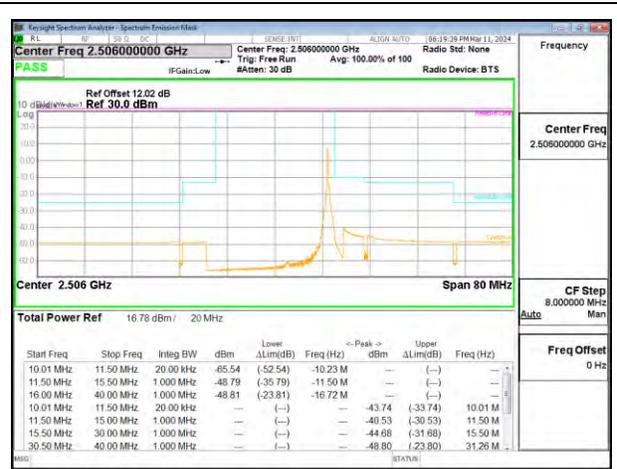
LTE Band 41 15MHz 16QAM High Channel RB1-74



LTE Band 41 15MHz 16QAM High Channel RB75-0



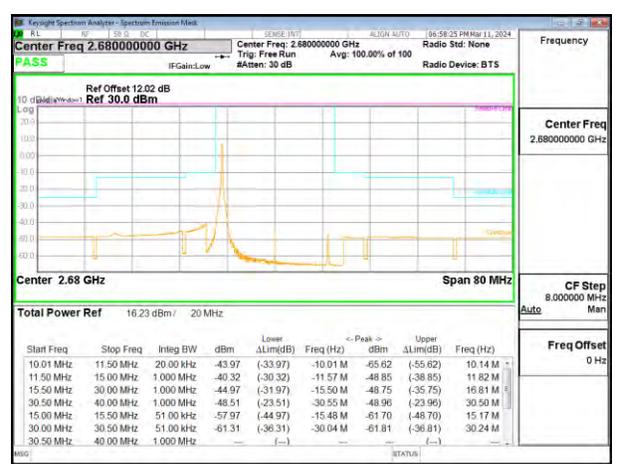
LTE Band 41 20MHz 16QAM Low Channel RB1-0



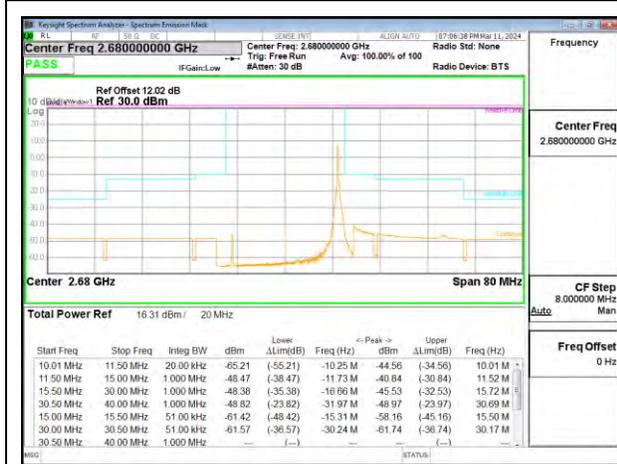
LTE Band 41 20MHz 16QAM Low Channel RB1-99



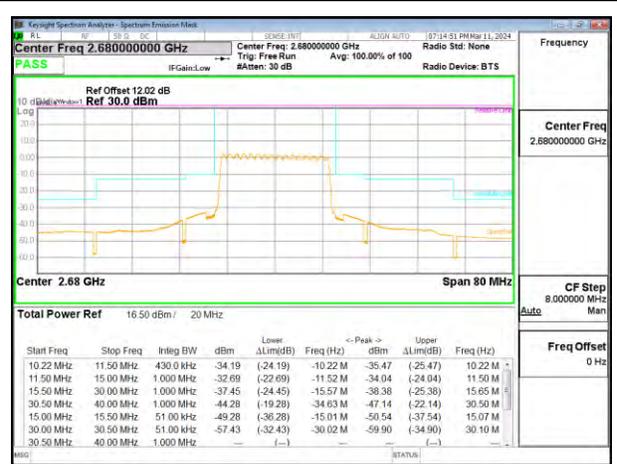
LTE Band 41 20MHz 16QAM Low Channel RB100-0



LTE Band 41 20MHz 16QAM High Channel RB1-0



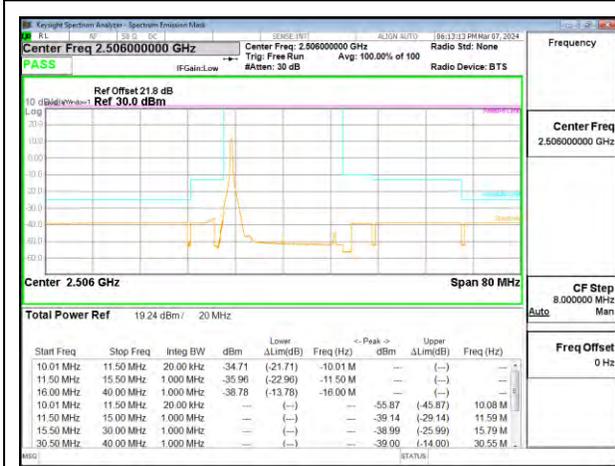
LTE Band 41 20MHz 16QAM High Channel RB1-99



LTE Band 41 20MHz 16QAM High Channel RB100-0

5G NR n41

Test Engineer ID:	22797/85502	Test Date:	2024-03-06	EUT Serial Number:	<QV77000KL2>
-------------------	-------------	------------	------------	--------------------	--------------



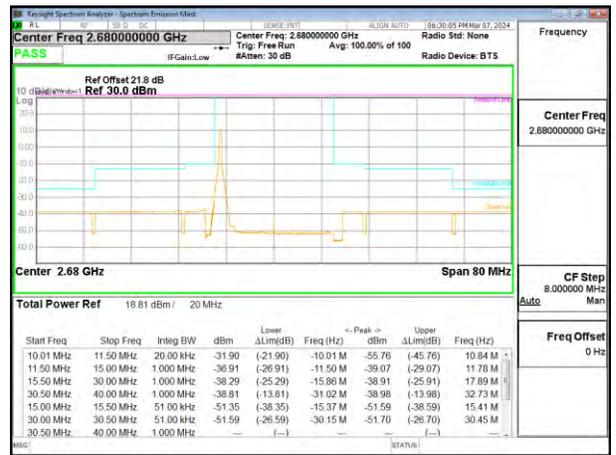
5G NR n41 20MHz QPSK Low Channel RB1-0



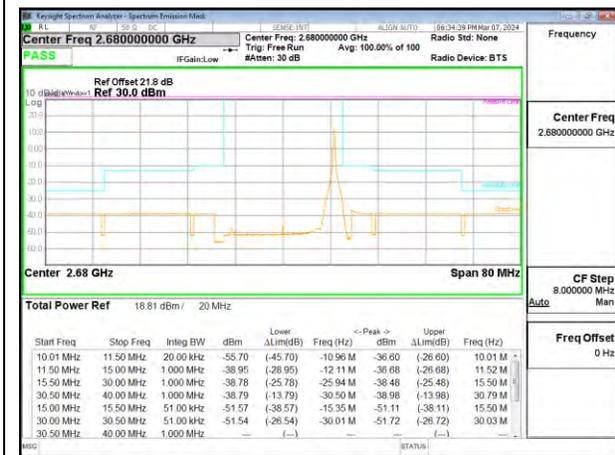
5G NR n41 20MHz QPSK Low Channel RB1-49



5G NR n41 20MHz QPSK Low Channel RB50-0



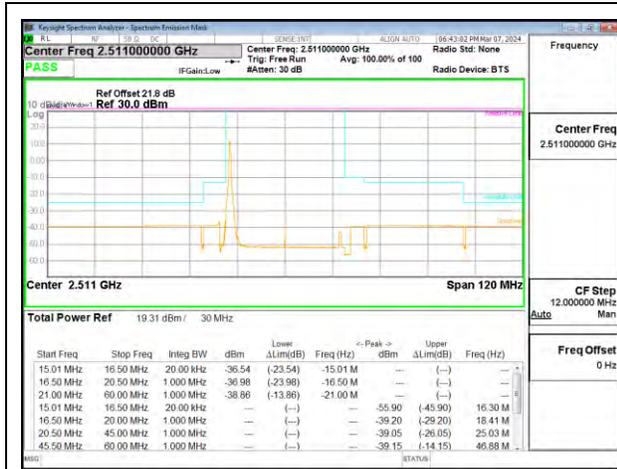
5G NR n41 20MHz QPSK High Channel RB1-0



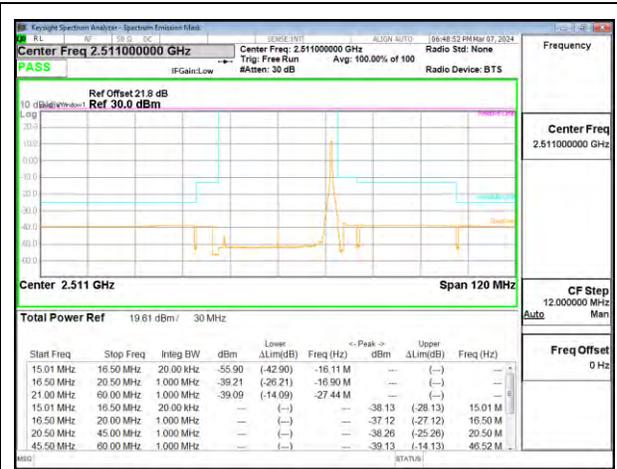
5G NR n41 20MHz QPSK High Channel RB1-49



5G NR n41 20MHz QPSK High Channel RB50-0



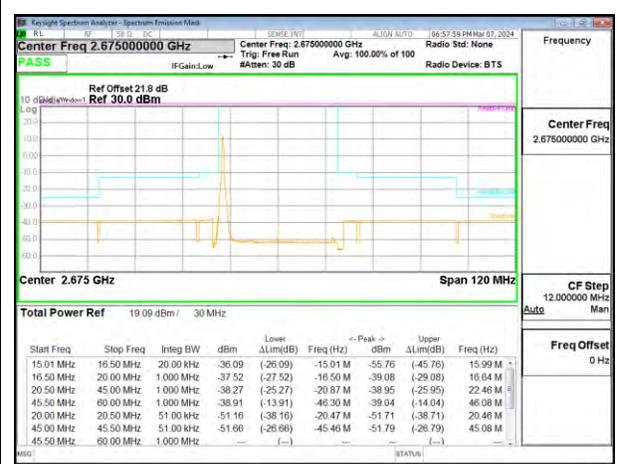
5G NR n41 30MHz QPSK Low Channel RB1-0



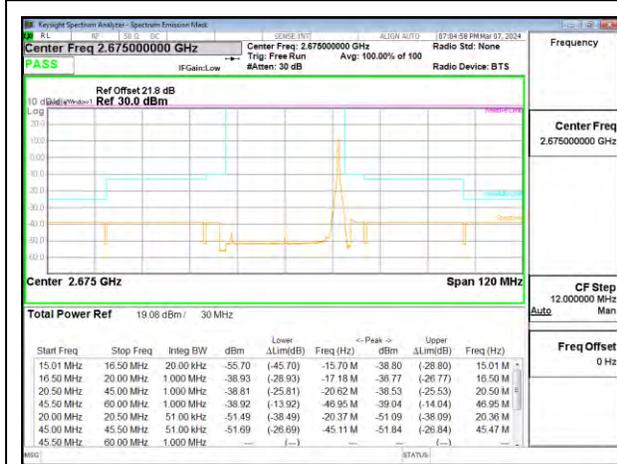
5G NR n41 30MHz QPSK Low Channel RB1-76



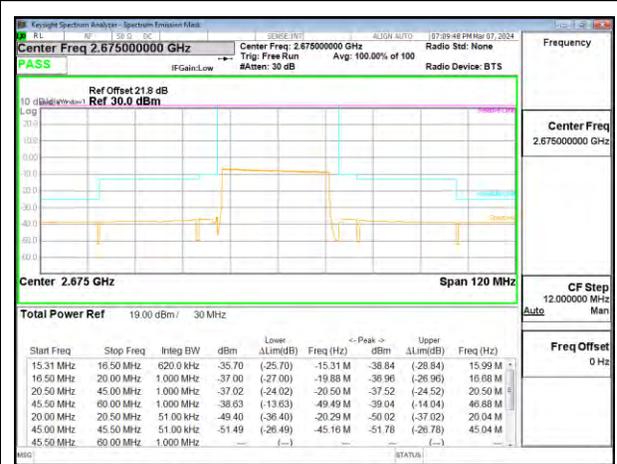
5G NR n41 30MHz QPSK Low Channel RB75-0



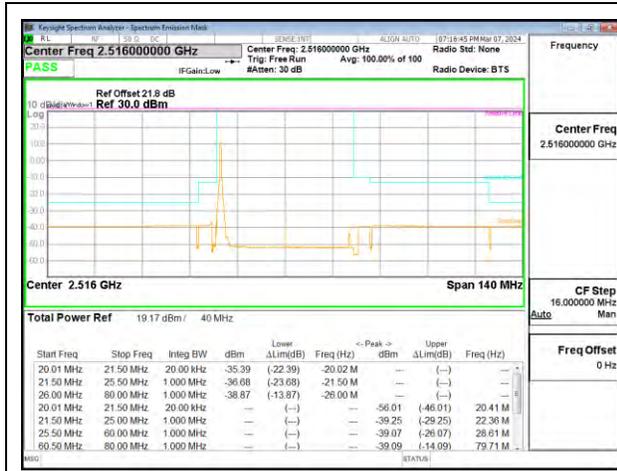
5G NR n41 30MHz QPSK High Channel RB1-0



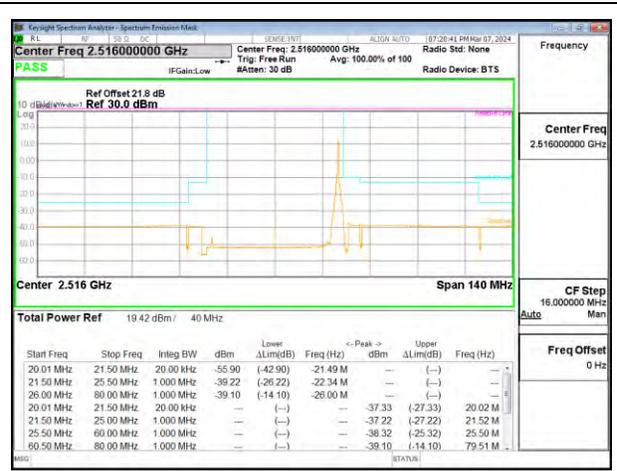
5G NR n41 30MHz QPSK High Channel RB1-76



5G NR n41 30MHz QPSK High Channel RB75-0



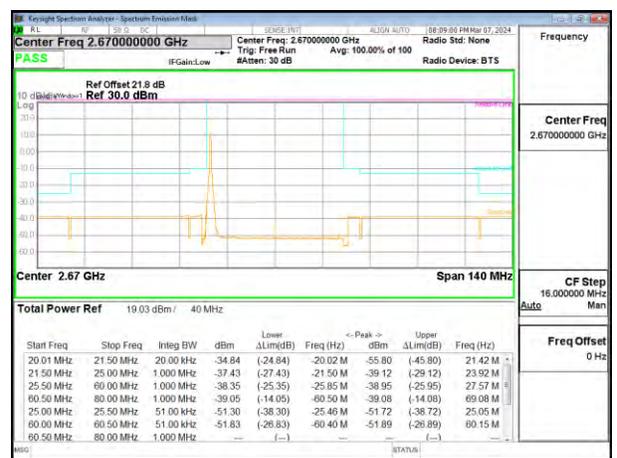
5G NR n41 40MHz QPSK Low Channel RB1-0



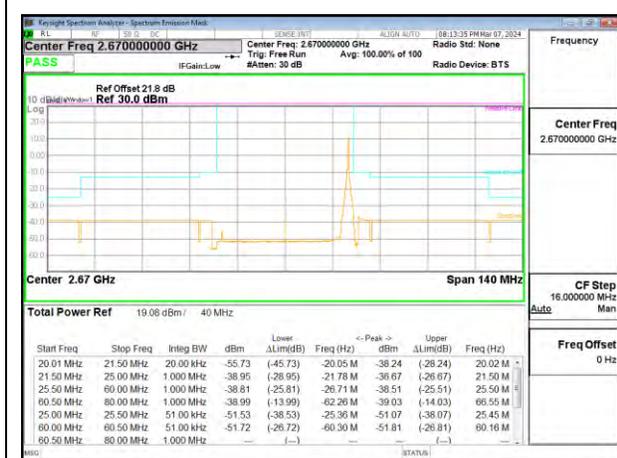
5G NR n41 40MHz QPSK Low Channel RB1-04



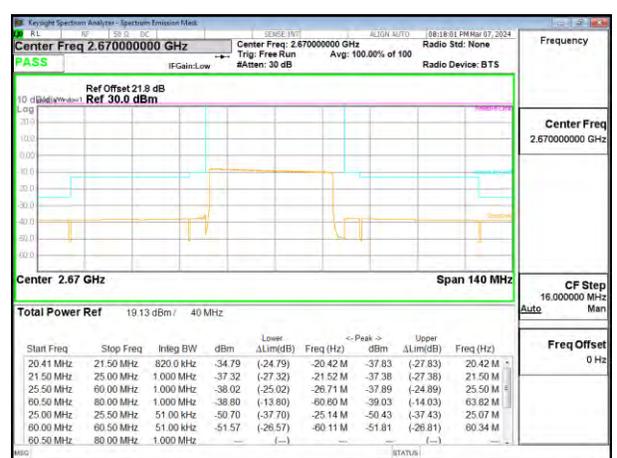
5G NR n41 40MHz QPSK Low Channel RB100-0



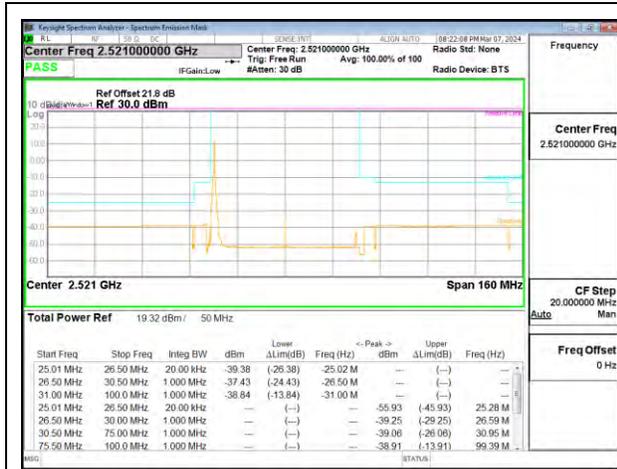
5G NR n41 40MHz QPSK High Channel RB1-0



5G NR n41 40MHz QPSK High Channel RB1-104



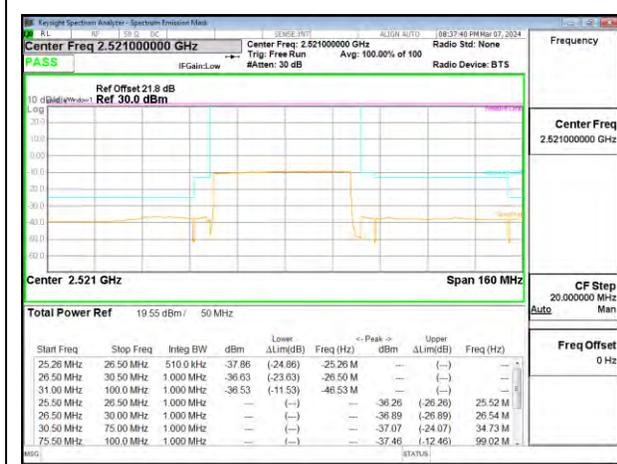
5G NR n41 40MHz QPSK High Channel RB100-0



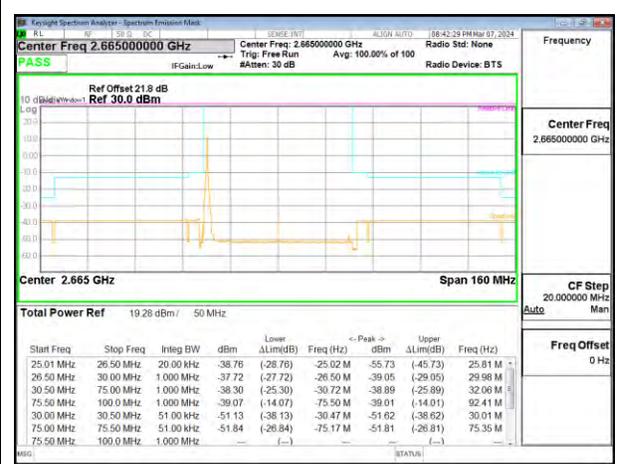
5G NR n41 50MHz QPSK Low Channel RB1-0



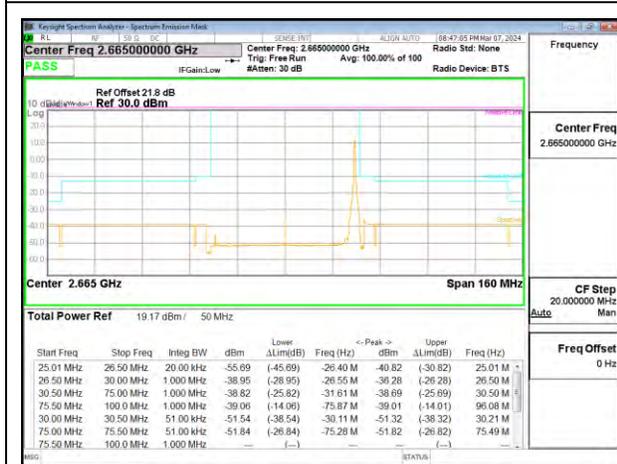
5G NR n41 50MHz QPSK Low Channel RB1-131



5G NR n41 50MHz QPSK Low Channel RB128-0



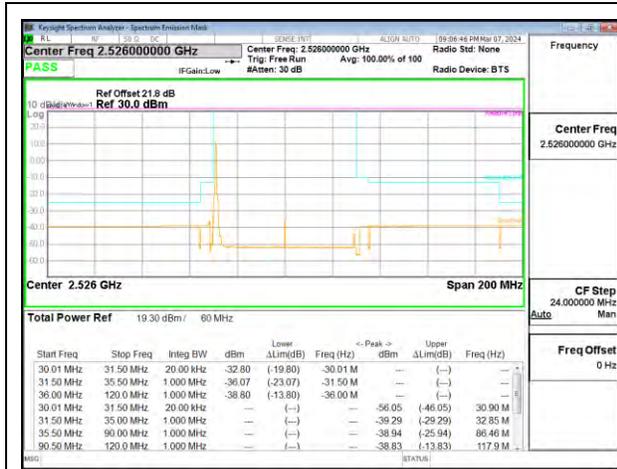
5G NR n41 50MHz QPSK High Channel RB1-0



5G NR n41 50MHz QPSK High Channel RB1-131



5G NR n41 50MHz QPSK High Channel RB128-0



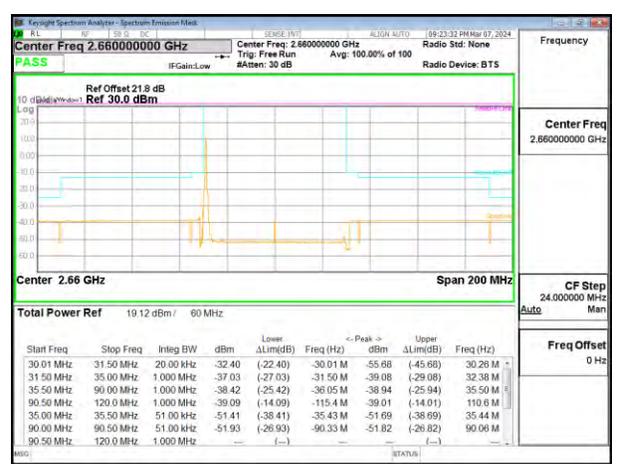
5G NR n41 60MHz QPSK Low Channel RB1-0



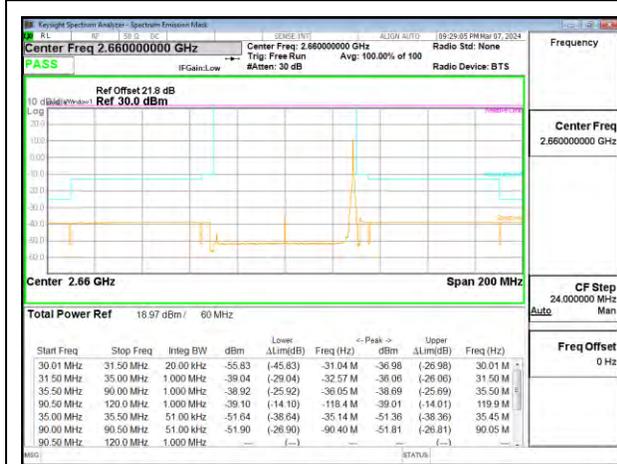
5G NR n41 60MHz QPSK Low Channel RB1-160



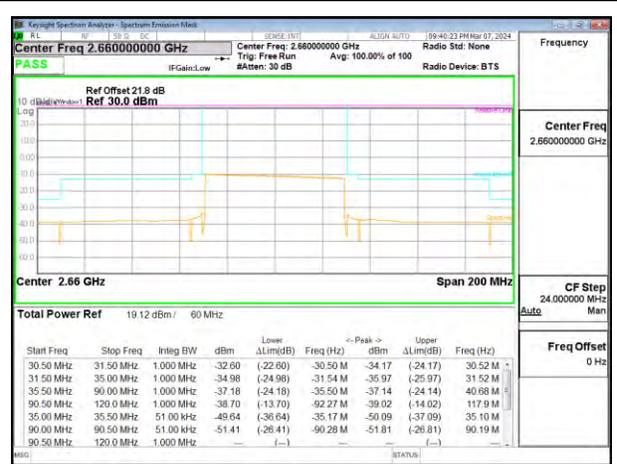
5G NR n41 60MHz QPSK Low Channel RB162-0



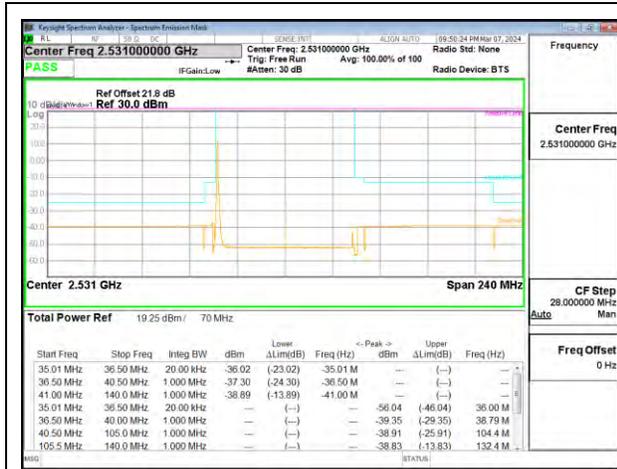
5G NR n41 60MHz QPSK High Channel RB1-0



5G NR n41 60MHz QPSK High Channel RB1-160



5G NR n41 60MHz QPSK High Channel RB162-0



5G NR n41 70MHz QPSK Low Channel RB1-0



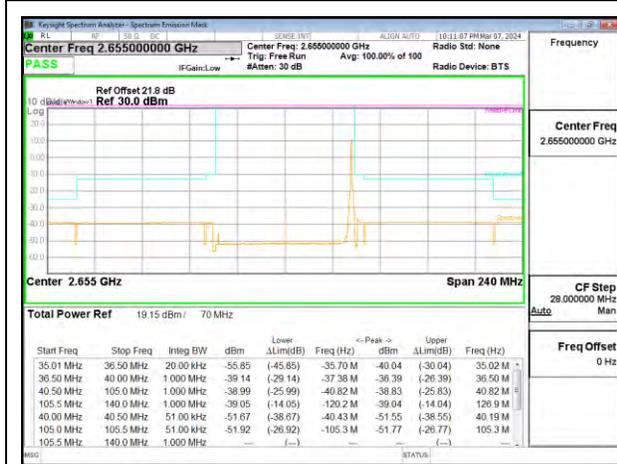
5G NR n41 70MHz QPSK Low Channel RB1-10



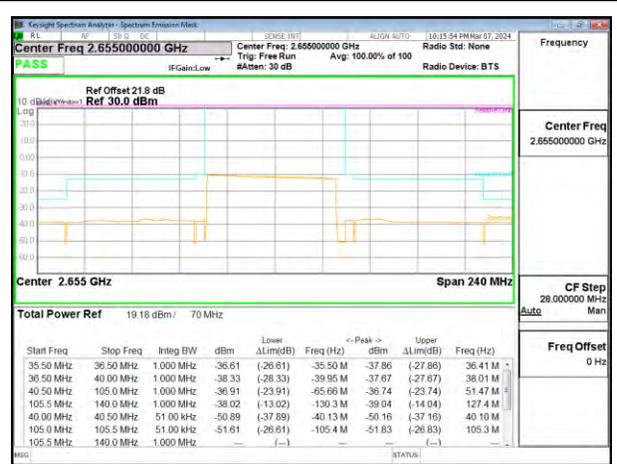
5G NR n41 70MHz QPSK Low Channel RB162-0



5G NR n41 70MHz QPSK High Channel RB1-0



5G NR n41 70MHz QPSK High Channel RB1-170



5G NR n41 70MHz QPSK High Channel RB162-0



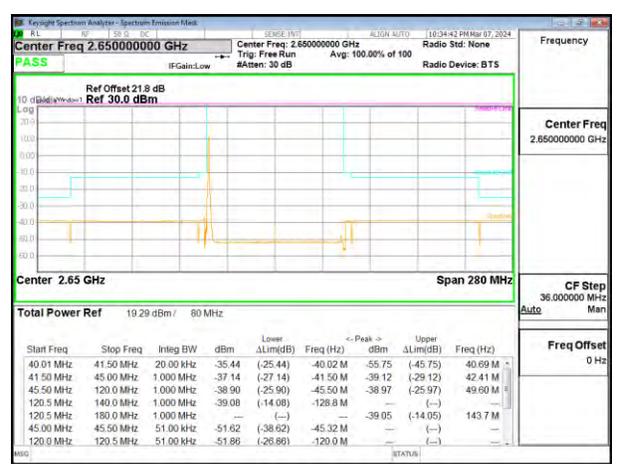
5G NR n41 80MHz QPSK Low Channel RB1-0



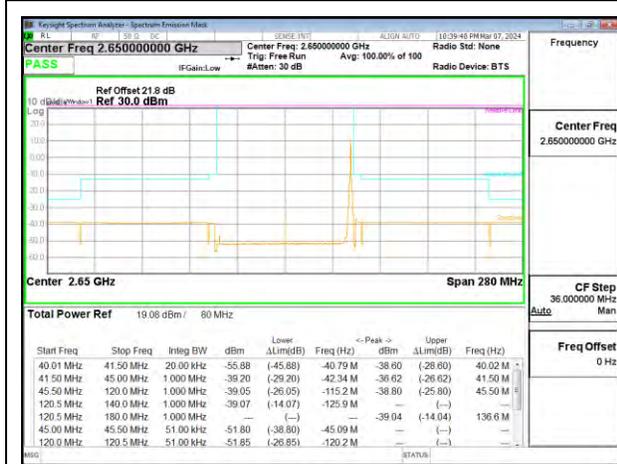
5G NR n41 80MHz QPSK Low Channel RB1-25



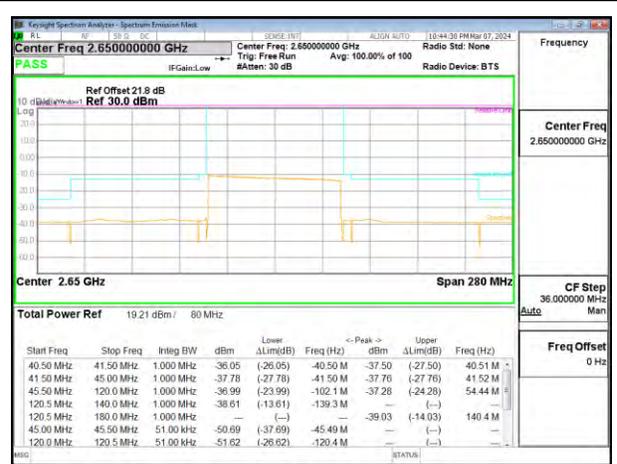
5G NR n41 80MHz QPSK Low Channel RB216-0



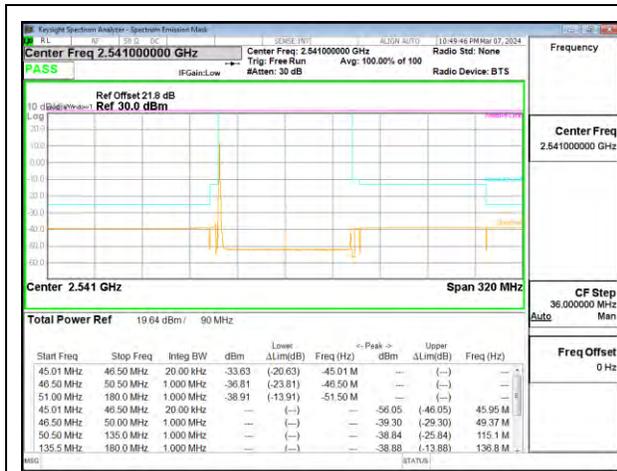
5G NR n41 80MHz QPSK High Channel RB1-0



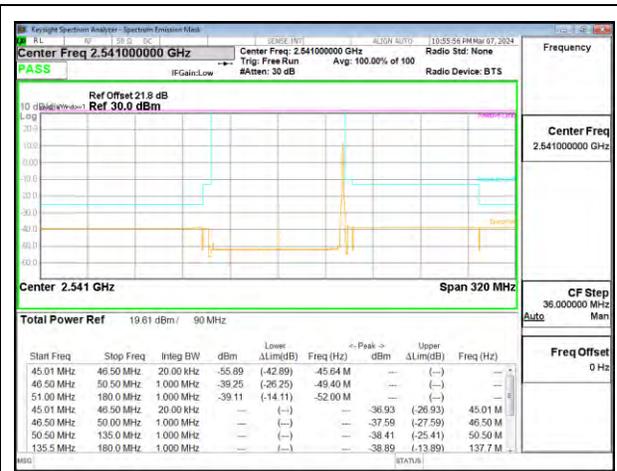
5G NR n41 80MHz QPSK High Channel RB1-215



5G NR n41 80MHz QPSK High Channel RB216-0



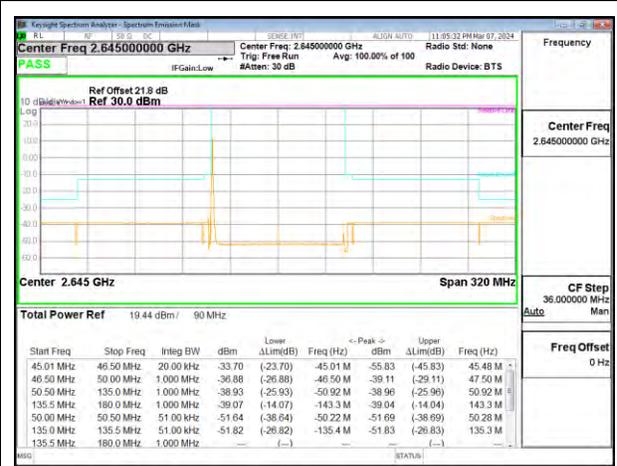
5G NR n41 90MHz QPSK Low Channel RB1-0



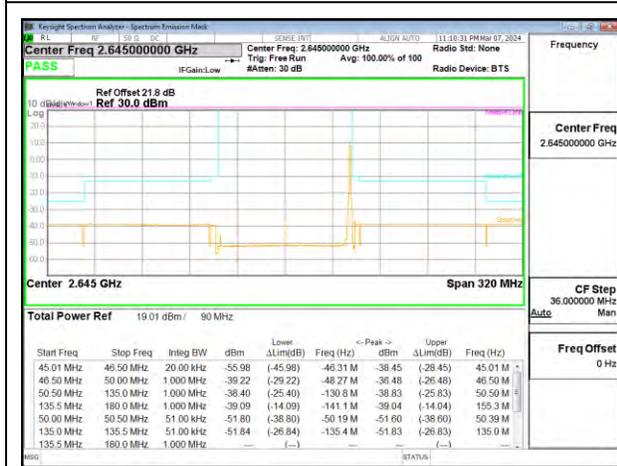
5G NR n41 90MHz QPSK Low Channel RB1-243



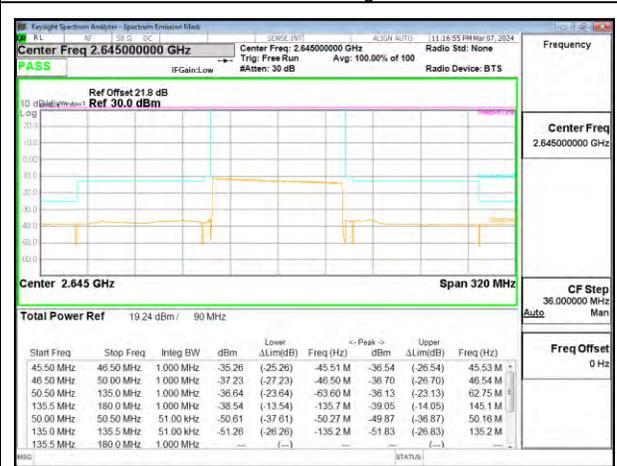
5G NR n41 90MHz QPSK Low Channel RB243-0



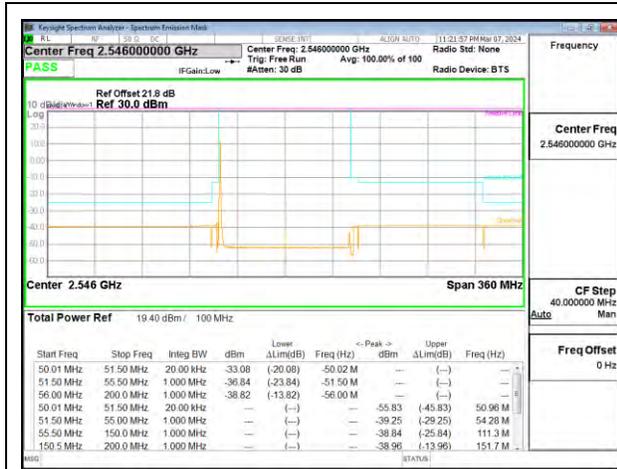
5G NR n41 90MHz QPSK High Channel RB1-0



5G NR n41 90MHz QPSK High Channel RB1-243



5G NR n41 90MHz QPSK High Channel RB243-0



5G NR n41 100MHz QPSK Low Channel RB1-0



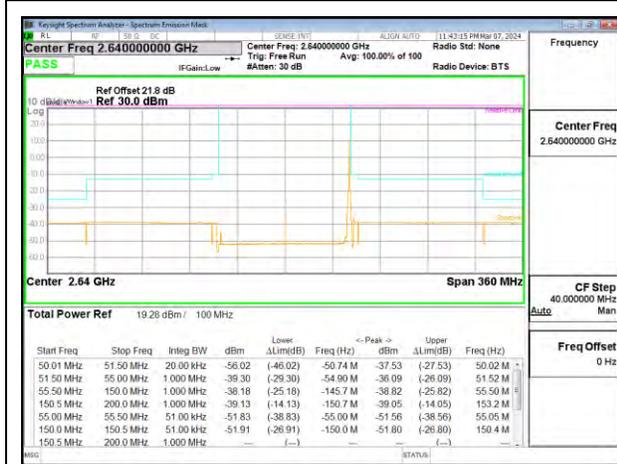
5G NR n41 100MHz QPSK Low Channel RB1-271



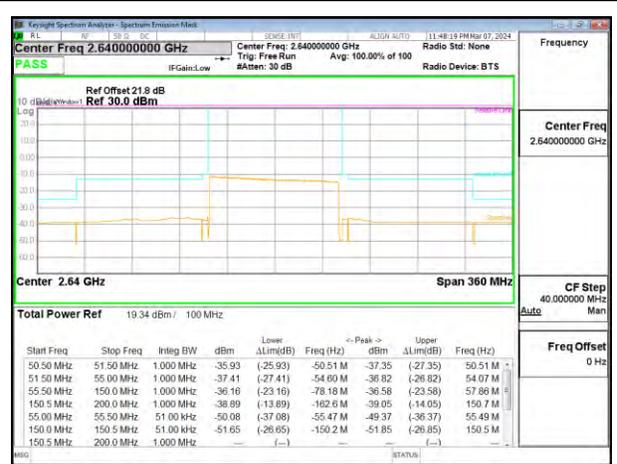
5G NR n41 100MHz QPSK Low Channel RB270-0



5G NR n41 100MHz QPSK High Channel RB1-0



5G NR n41 100MHz QPSK High Channel RB1-271



5G NR n41 100MHz QPSK High Channel RB270-0

**9.2.6. LTE BAND 66 AND 5G NR n66 EMISSION MASK**

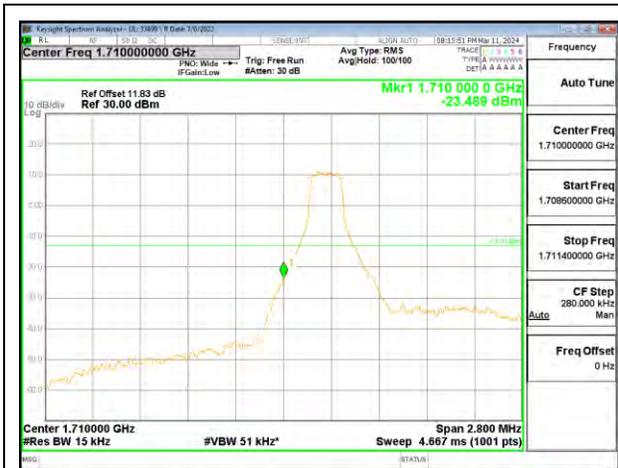
**LIMITS**

FCC: §27.53(h)

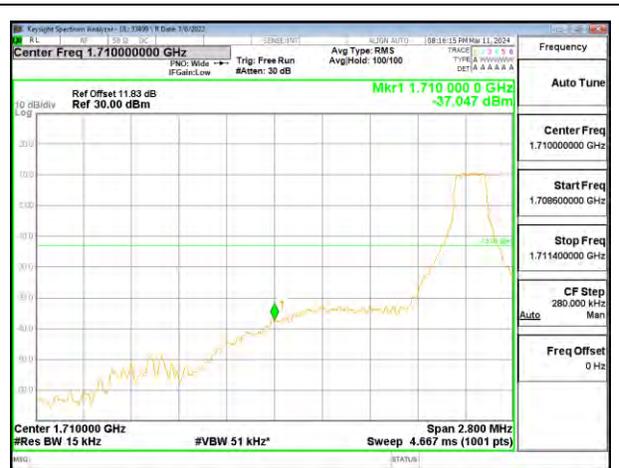
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log (P)$  dB.

<b>Test Engineer ID:</b>	33499/85502	<b>Test Date:</b>	2024-03-11 2024-03-18	<b>EUT Serial Number:</b>	QV77000KL2 QV7700DSLQ
--------------------------	-------------	-------------------	--------------------------	---------------------------	--------------------------

**LTE BAND 66**



LTE Band 66 1.4MHz QPSK Low Channel RB1-0



LTE Band 66 1.4MHz QPSK Low Channel RB1-5



LTE Band 66 1.4MHz QPSK Low Channel RB6-0



LTE Band 66 1.4MHz QPSK High Channel RB1-0



LTE Band 66 1.4MHz QPSK High Channel RB1-5



LTE Band 66 1.4MHz QPSK High Channel RB6-0



LTE Band 66 3MHz QPSK Low Channel RB1-0



LTE Band 66 3MHz QPSK Low Channel RB1-14



LTE Band 66 3MHz QPSK Low Channel RB15-0



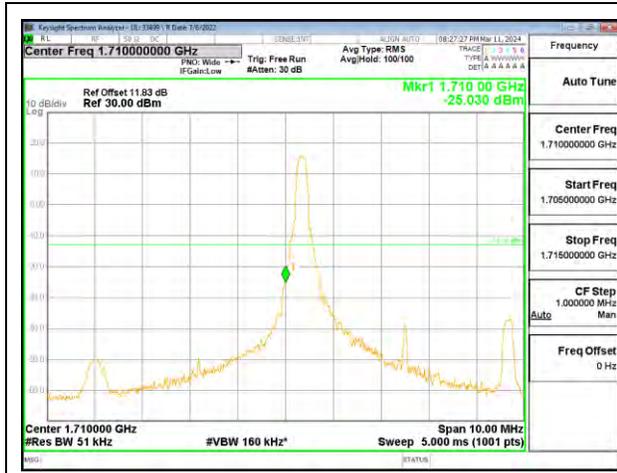
LTE Band 66 3MHz QPSK High Channel RB1-0



LTE Band 66 3MHz QPSK High Channel RB1-14



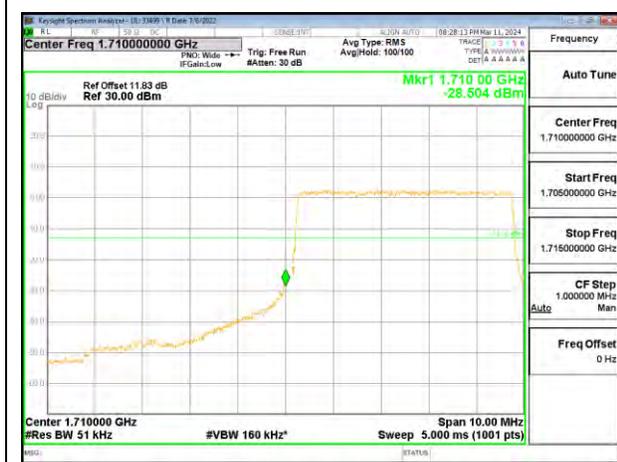
LTE Band 66 3MHz QPSK High Channel RB15-0



LTE Band 66 5MHz QPSK Low Channel RB1-0



LTE Band 66 5MHz QPSK Low Channel RB1-24



LTE Band 66 5MHz QPSK Low Channel RB25-0



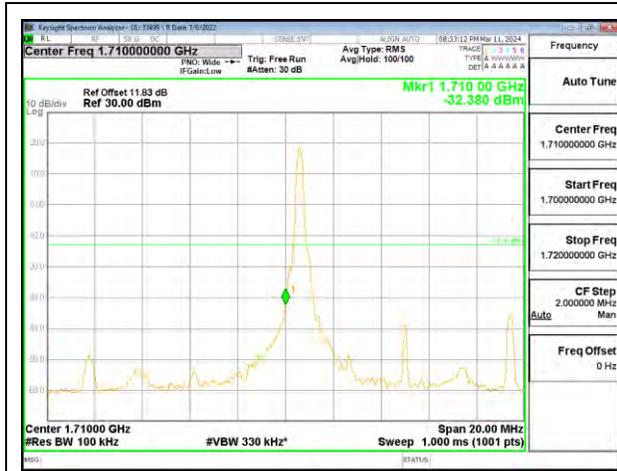
LTE Band 66 5MHz QPSK High Channel RB1-0



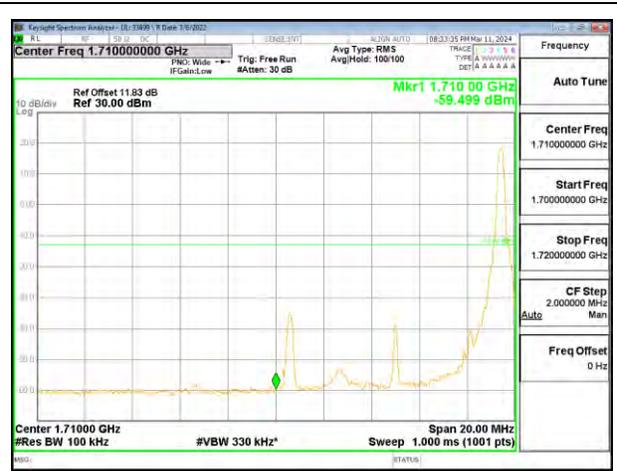
LTE Band 66 5MHz QPSK High Channel RB1-24



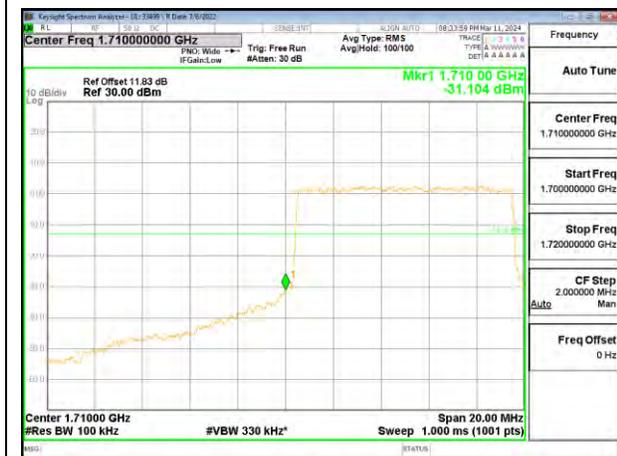
LTE Band 66 5MHz QPSK High Channel RB25-0



LTE Band 66 10MHz QPSK Low Channel RB1-0



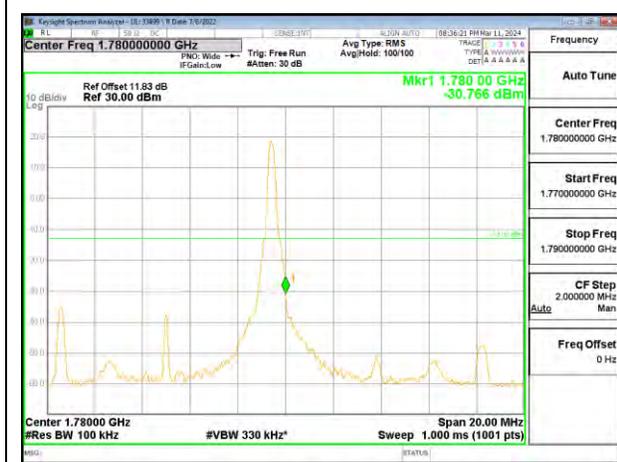
LTE Band 66 10MHz QPSK Low Channel RB1-49



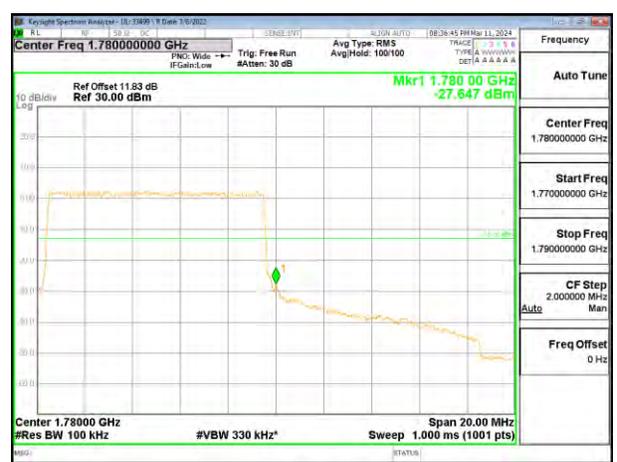
LTE Band 66 10MHz QPSK Low Channel RB50-0



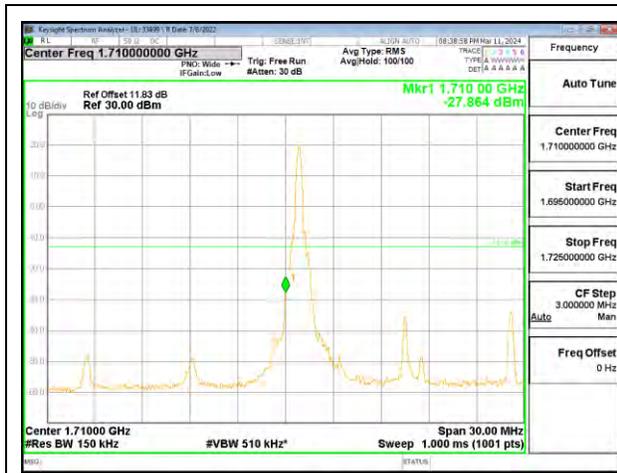
LTE Band 66 10MHz QPSK High Channel RB1-0



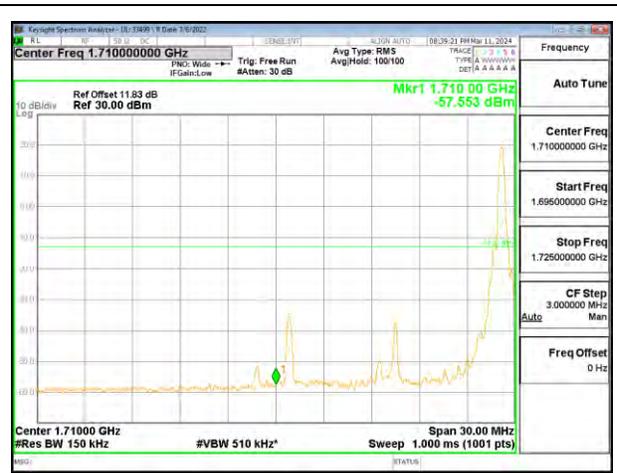
LTE Band 66 10MHz QPSK High Channel RB1-49



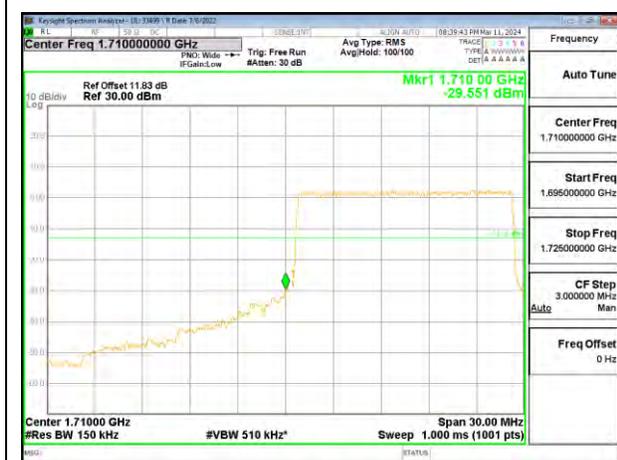
LTE Band 66 10MHz QPSK High Channel RB50-0



LTE Band 66 15MHz QPSK Low Channel RB1-0



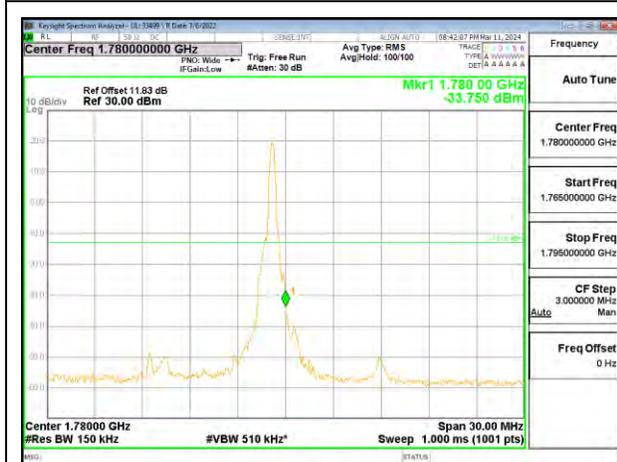
LTE Band 66 15MHz QPSK Low Channel RB1-74



LTE Band 66 15MHz QPSK Low Channel RB75-0



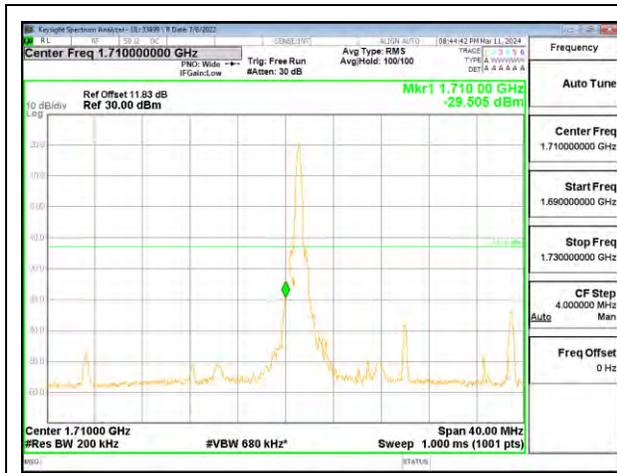
LTE Band 66 15MHz QPSK High Channel RB1-0



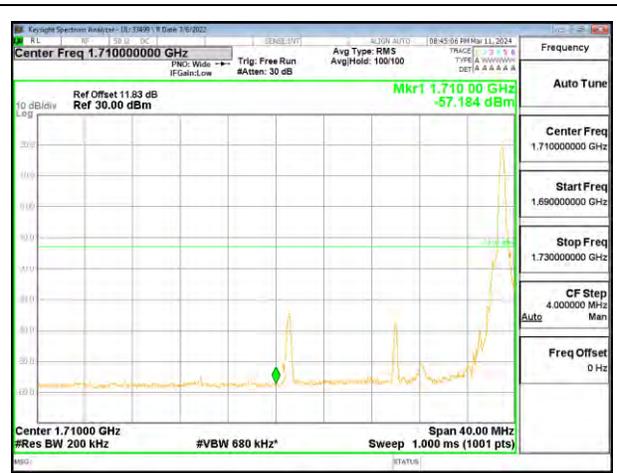
LTE Band 66 15MHz QPSK High Channel RB1-74



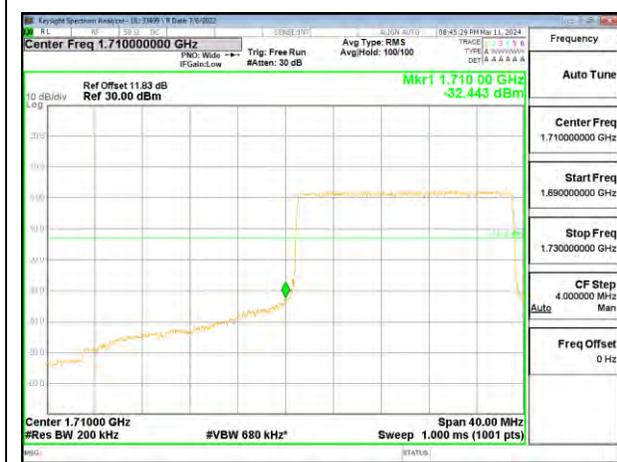
LTE Band 66 15MHz QPSK High Channel RB75-0



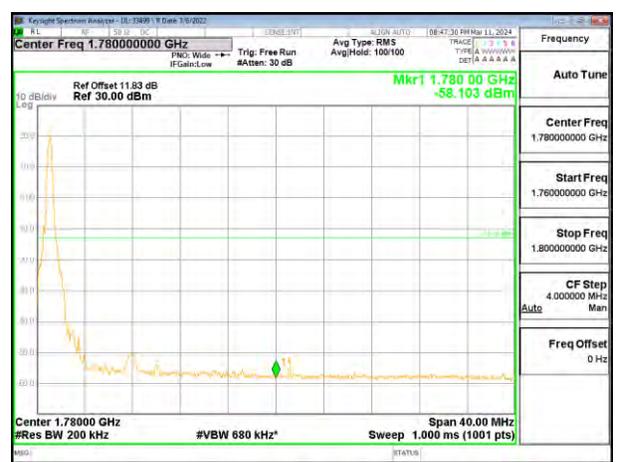
LTE Band 66 20MHz QPSK Low Channel RB1-0



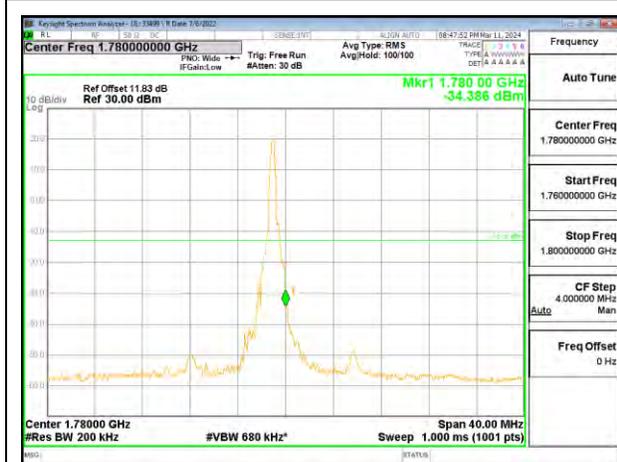
LTE Band 66 20MHz QPSK Low Channel RB1-99



LTE Band 66 20MHz QPSK Low Channel RB100-0



LTE Band 66 20MHz QPSK High Channel RB1-0



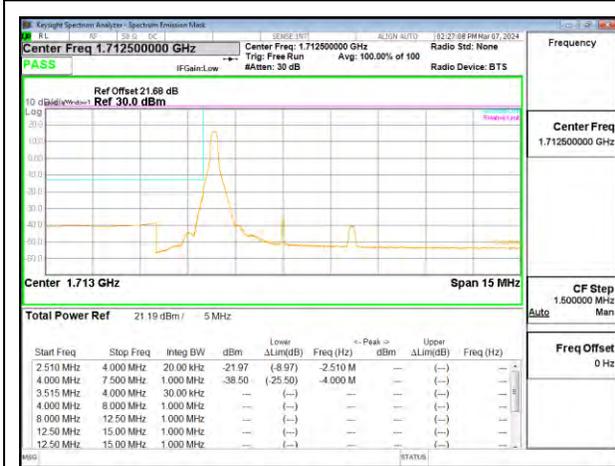
LTE Band 66 20MHz QPSK High Channel RB1-99



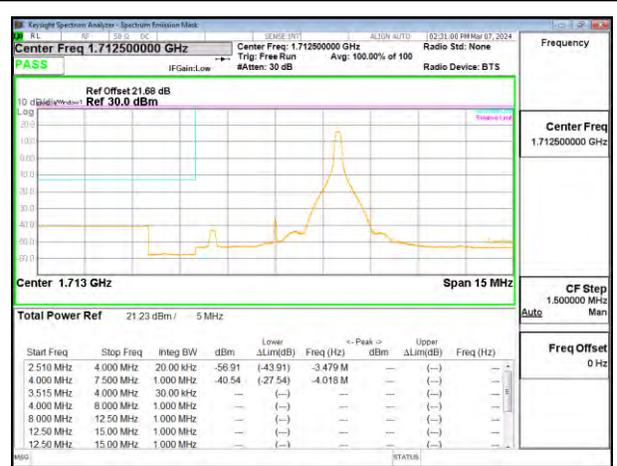
LTE Band 66 20MHz QPSK High Channel RB100-0

5G FR1 n66

Test Engineer ID:	22797/85502	Test Date:	2024-03-07	EUT Serial Number:	<QV77000KL2>
-------------------	-------------	------------	------------	--------------------	--------------



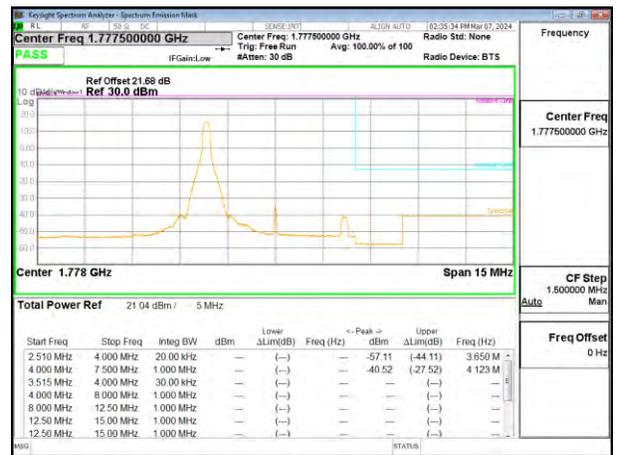
5G NR n66 5MHz BPSK Low Channel RB1-0



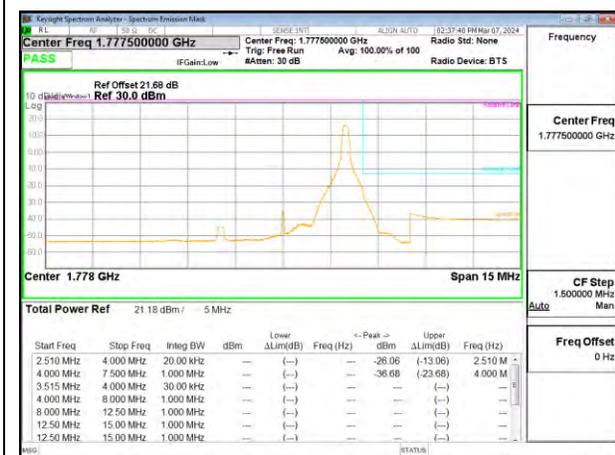
5G NR n66 5MHz BPSK Low Channel RB1-24



5G NR n66 5MHz BPSK Low Channel RB25-0



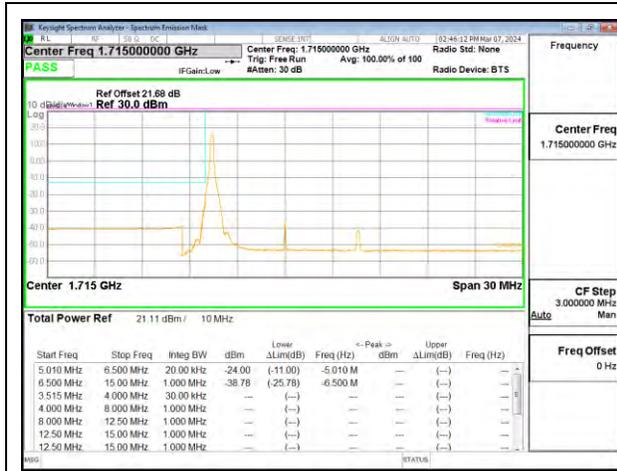
5G NR n66 5MHz BPSK High Channel RB1-0



5G NR n66 5MHz BPSK High Channel RB1-24



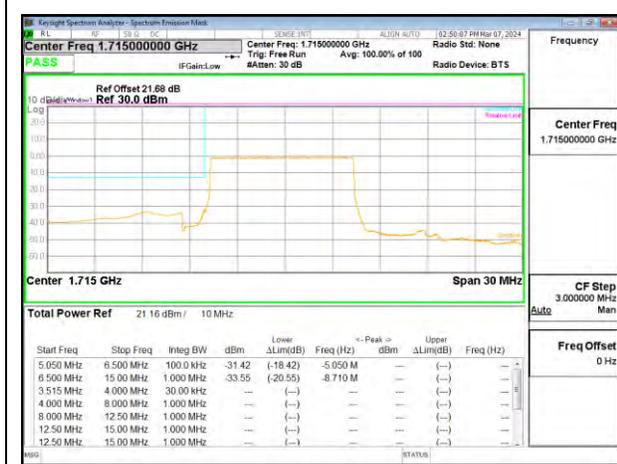
5G NR n66 5MHz BPSK High Channel RB25-0



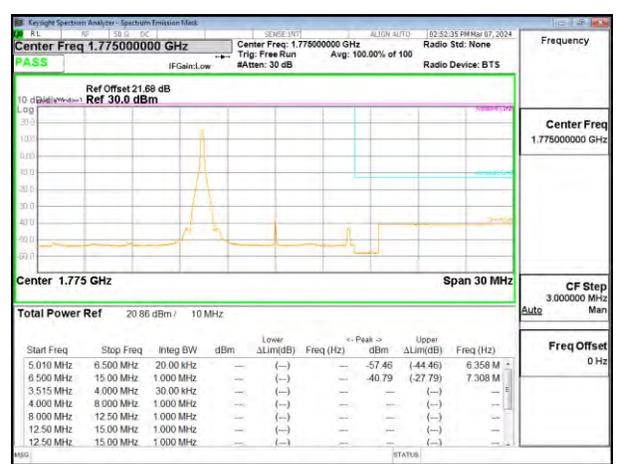
5G NR n66 10MHz BPSK Low Channel RB1-0



5G NR n66 10MHz BPSK Low Channel RB1-0



5G NR n66 10MHz BPSK Low Channel RB50-0



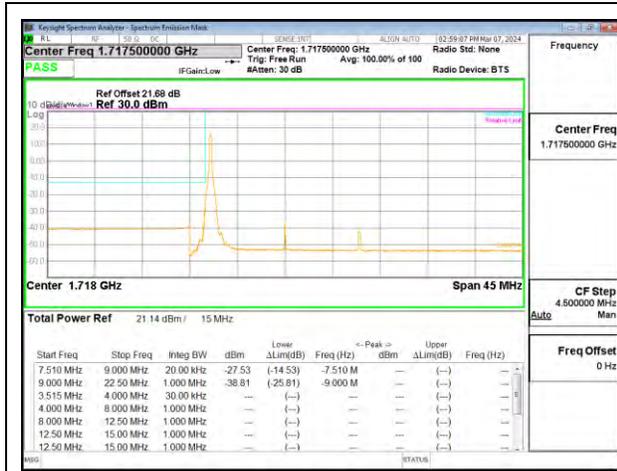
5G NR n66 10MHz BPSK High Channel RB1-0



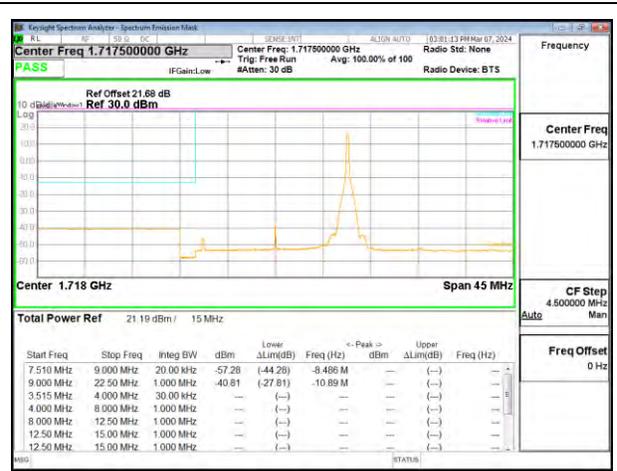
5G NR n66 10MHz BPSK High Channel RB1-50



5G NR n66 10MHz BPSK High Channel RB50-0



5G NR n66 15MHz BPSK Low Channel RB1-0



5G NR n66 15MHz BPSK Low Channel RB1-77



5G NR n66 15MHz BPSK Low Channel RB75-0



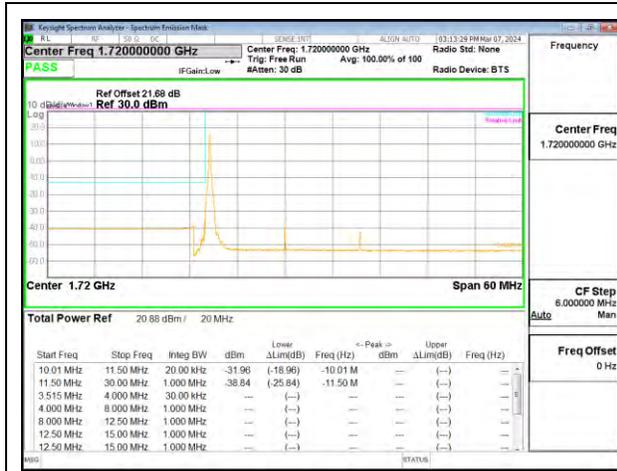
5G NR n66 15MHz BPSK High Channel RB1-0



5G NR n66 15MHz BPSK High Channel RB1-77



5G NR n66 15MHz BPSK High Channel RB75-0



5G NR n66 20MHz BPSK Low Channel RB1-0



5G NR n66 20MHz BPSK Low Channel RB1-04



5G NR n66 20MHz BPSK Low Channel RB100-0



5G NR n66 20MHz BPSK High Channel RB1-0



5G NR n66 20MHz BPSK High Channel RB1-104



5G NR n66 20MHz BPSK High Channel RB100-0

### 9.3. OUT OF BAND EMISSIONS

#### 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)

#### RESULTS

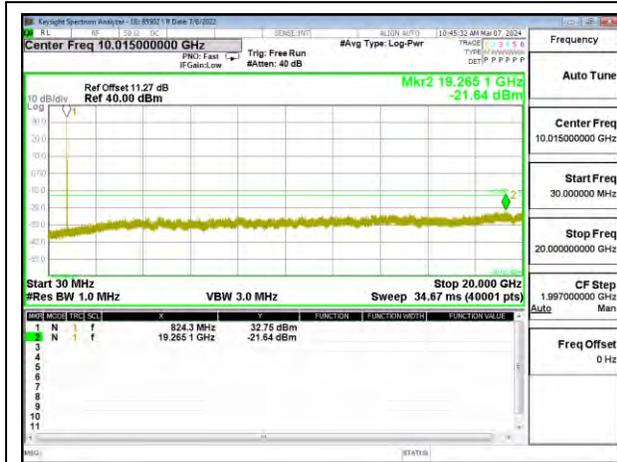
### 9.3.1. GSM 850

#### LIMITS

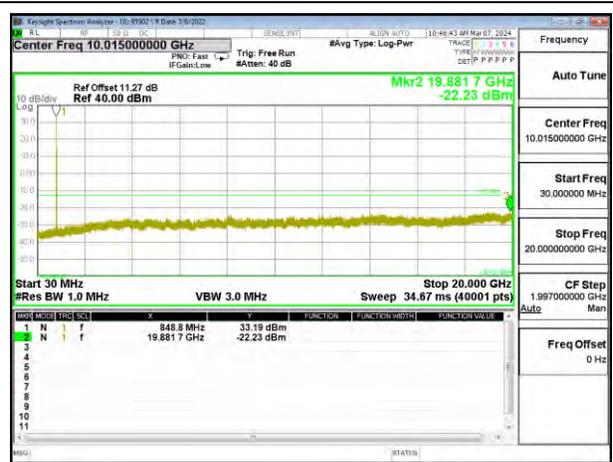
FCC: §22.917 (a)

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.

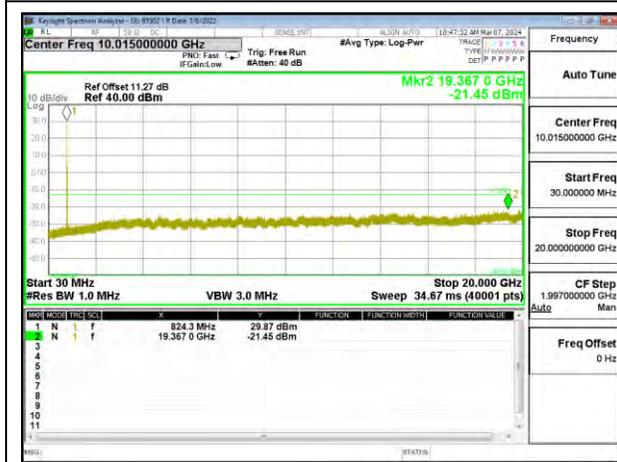
<b>Test Engineer ID:</b>	85502	<b>Test Date:</b>	2024-03-07	<b>EUT Serial Number:</b>	QV7700DSLQ
--------------------------	-------	-------------------	------------	---------------------------	------------



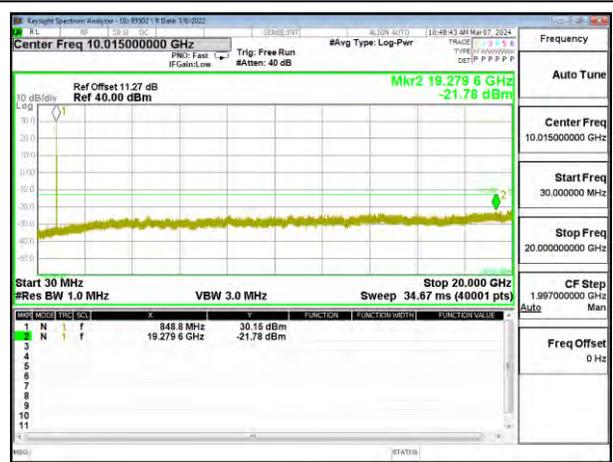
GSM 850 GPRS Low Channel



GSM 850 GPRS High Channel



GSM 850 EGPRS Low Channel



GSM 850 EGPRS High Channel

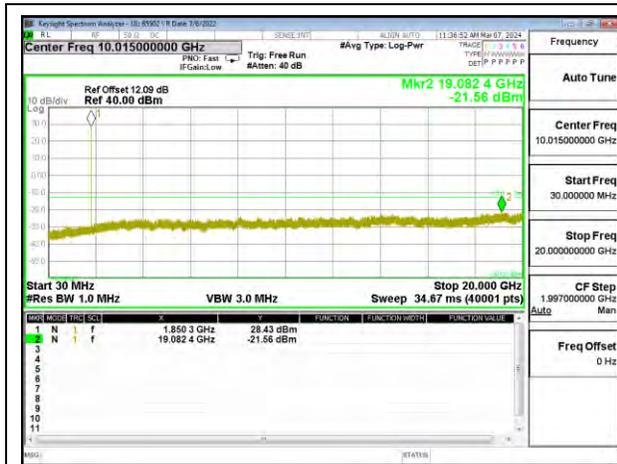
### 9.3.2. GSM 1900

#### LIMITS

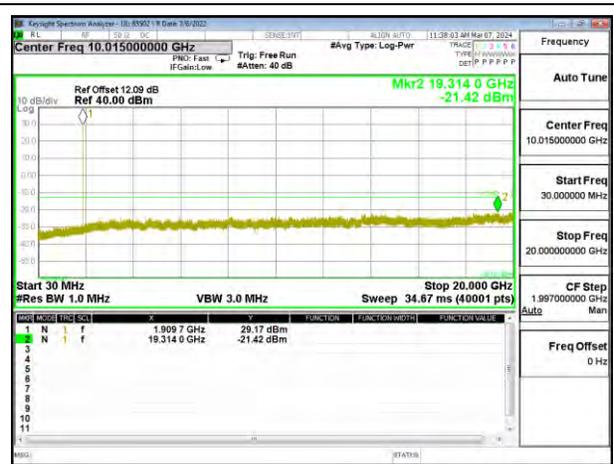
FCC: §24.238

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

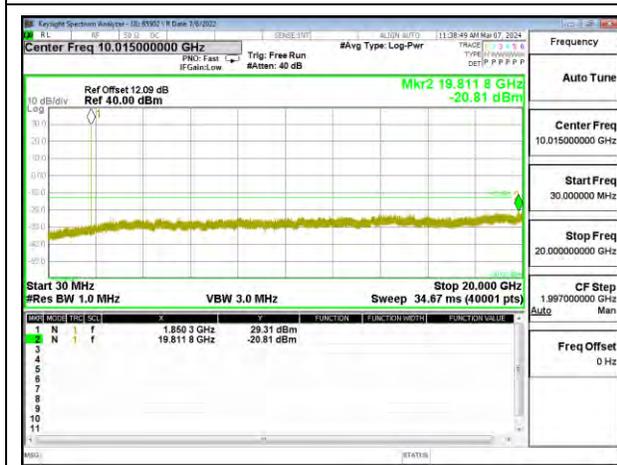
<b>Test Engineer ID:</b>	85502	<b>Test Date:</b>	2024-03-07	<b>EUT Serial Number:</b>	QV7700DSLQ
--------------------------	-------	-------------------	------------	---------------------------	------------



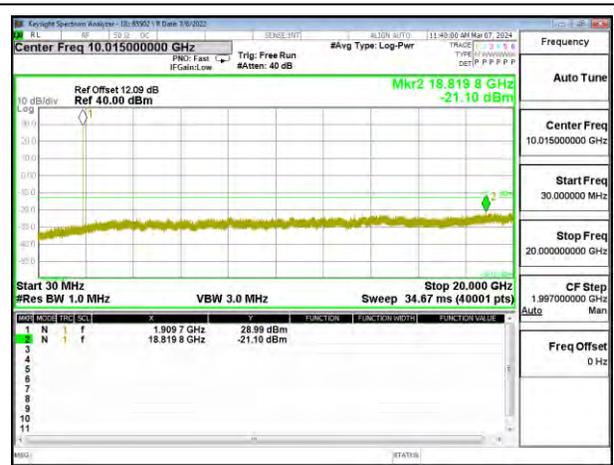
GSM 1900 GPRS Low Channel



GSM 1900 GPRS High Channel



GSM 1900 EGPRS Low Channel



GSM 1900 EGPRS High Channel

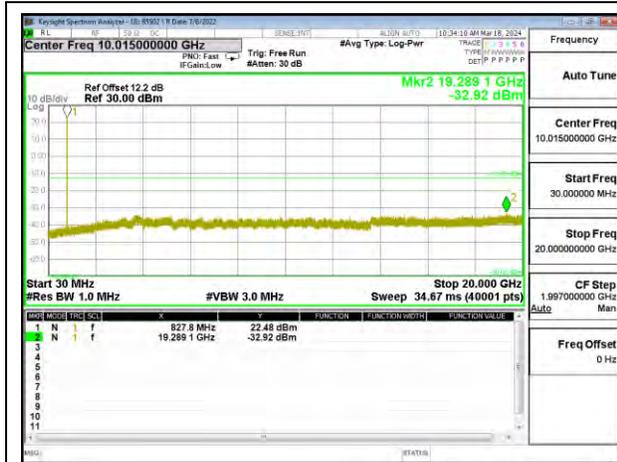
### 9.3.3. WCDMA BAND 5

#### LIMITS

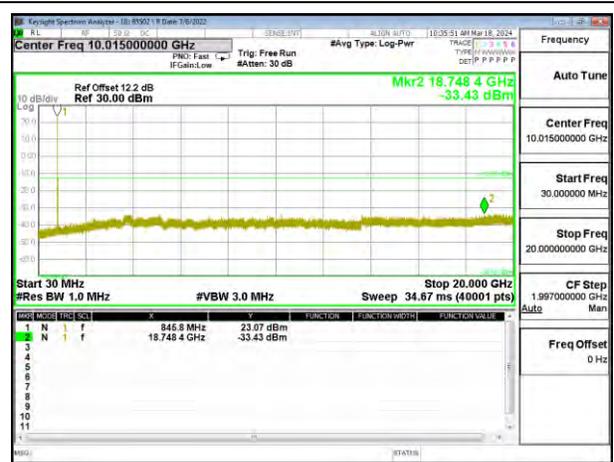
FCC: §22.917 (a)

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.

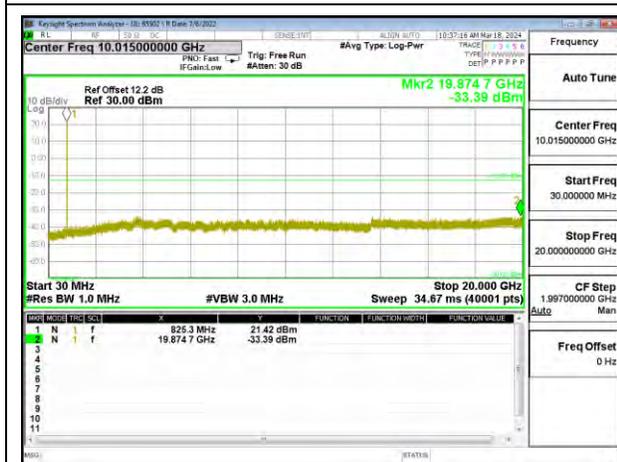
<b>Test Engineer ID:</b>	85502	<b>Test Date:</b>	2024-03-18	<b>EUT Serial Number:</b>	QV770018L2
--------------------------	-------	-------------------	------------	---------------------------	------------



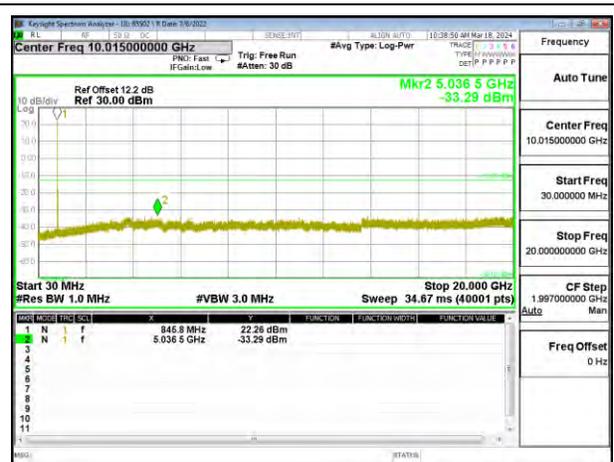
WCDMA Band 5 Rel 99 Low Channel



WCDMA Band 5 Rel 99 High Channel



WCDMA Band 5 HSDPA Low Channel



WCDMA Band 5 HSDPA High Channel

### 9.3.4. LTE BAND 5 AND 5G NR n5

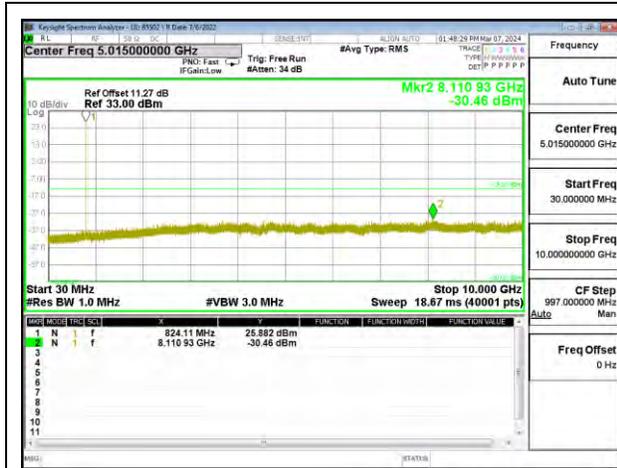
#### LIMITS

FCC: §22.917 (a)

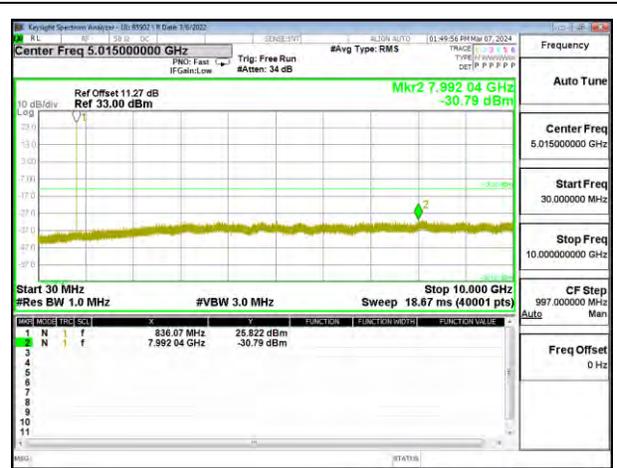
The minimum permissible attenuation level of any spurious emissions is  $43 + 10 \log (P)$  dB where transmitting power (P) in Watts.

<b>Test Engineer ID:</b>	85502	<b>Test Date:</b>	2024-03-07	<b>EUT Serial Number:</b>	QV7700DSLQ
--------------------------	-------	-------------------	------------	---------------------------	------------

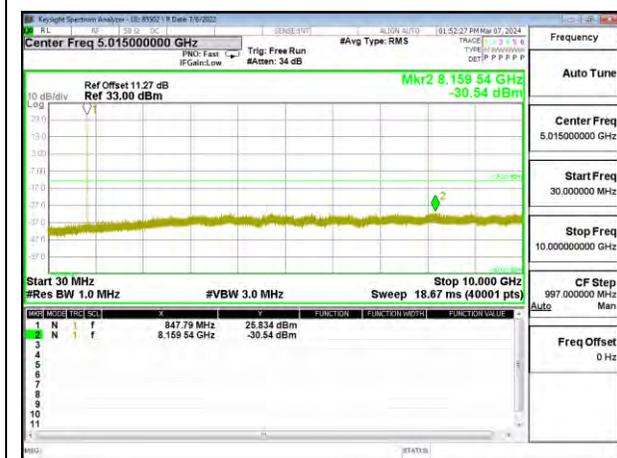
LTE BAND 5



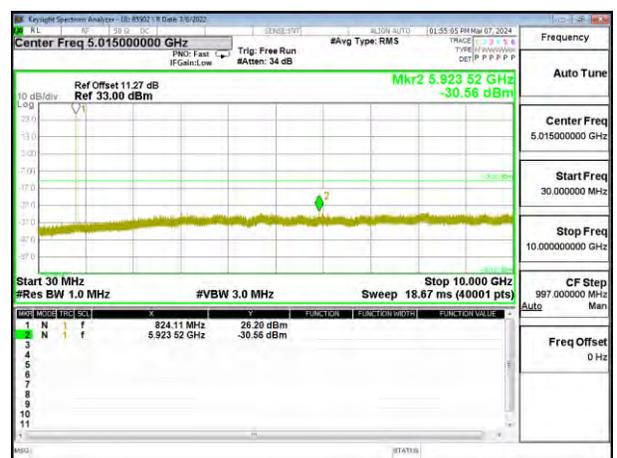
LTE B5 1.4MHz 16QAM Low Channel RB1-0



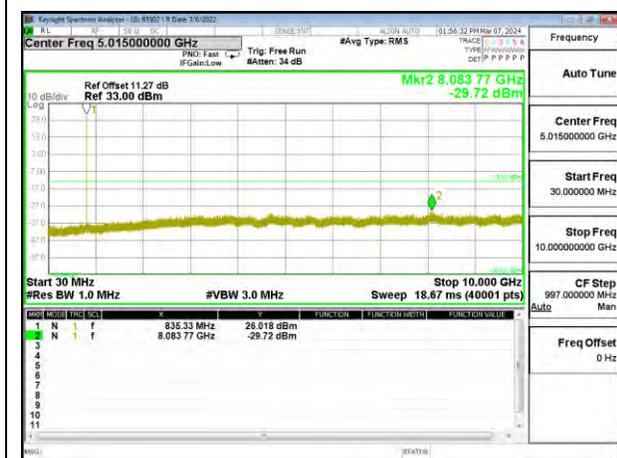
LTE B5 1.4MHz 16QAM Middle Channel RB1-0



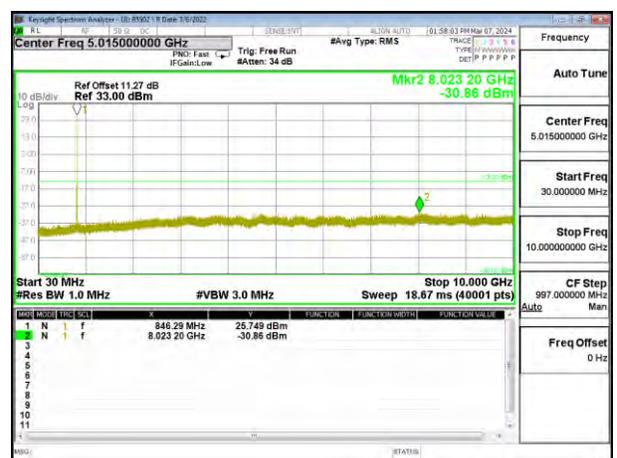
LTE B5 1.4MHz 16QAM High Channel RB1-0



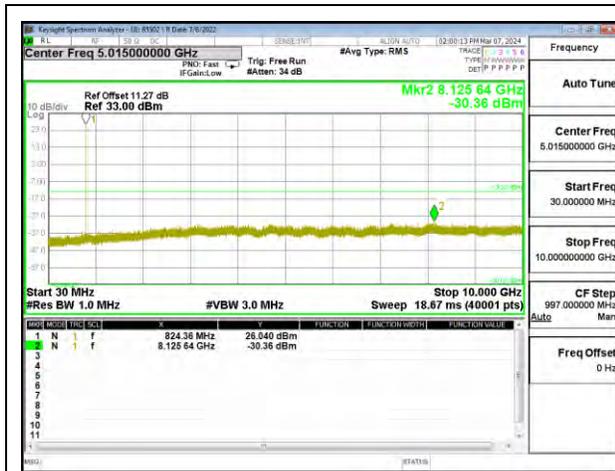
LTE B5 3MHz 16QAM Low Channel RB1-0



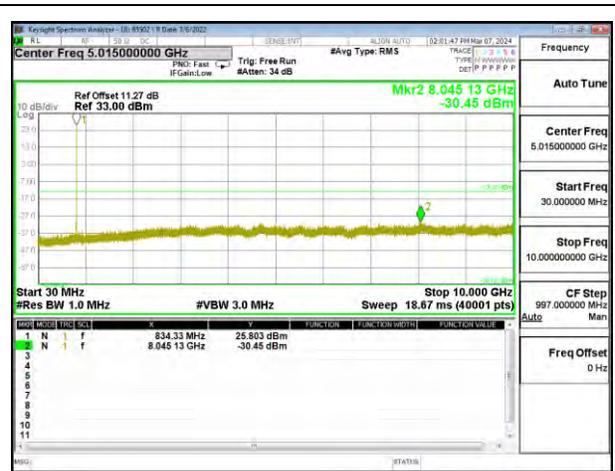
LTE B5 3MHz 16QAM Middle Channel RB1-0



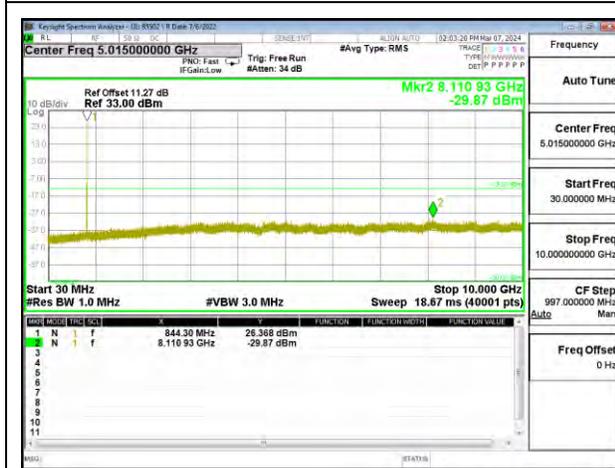
LTE B5 3MHz 16QAM High Channel RB1-0



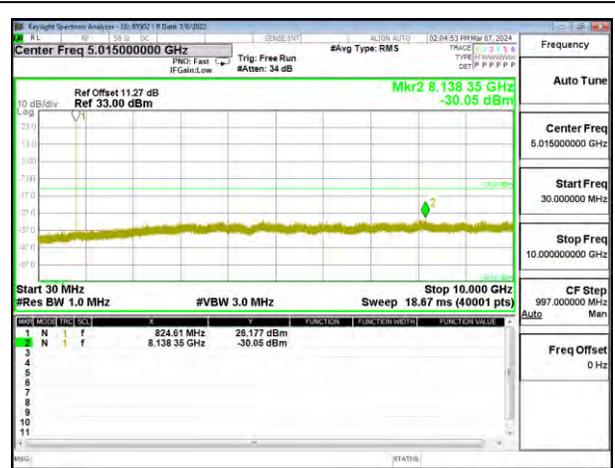
LTE B5 5MHz 16QAM Low Channel RB1-0



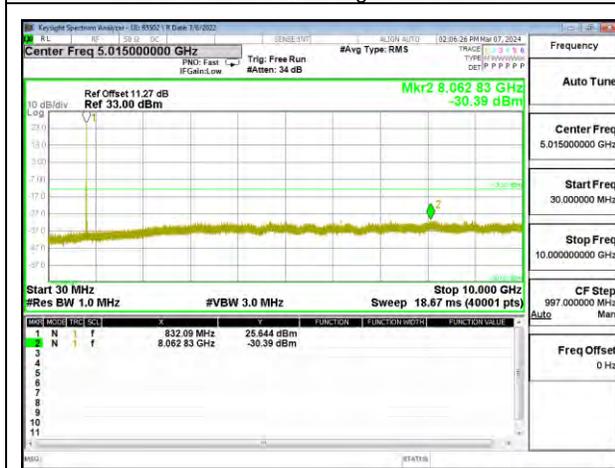
LTE B5 5MHz 16QAM Middle Channel RB1-0



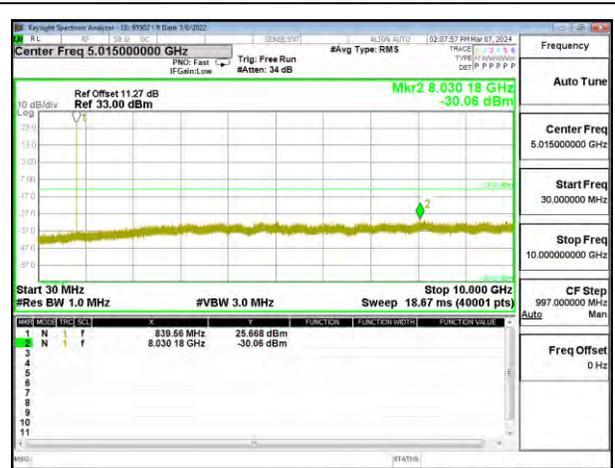
LTE B5 5MHz 16QAM High Channel RB1-0



LTE B5 10MHz 16QAM Low Channel RB1-0



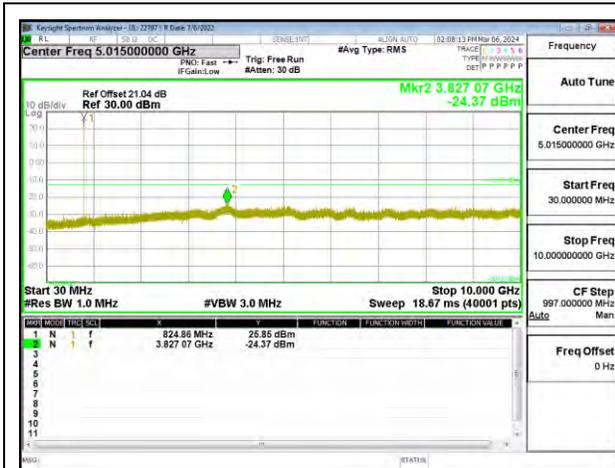
LTE B5 10MHz 16QAM Middle Channel RB1-0



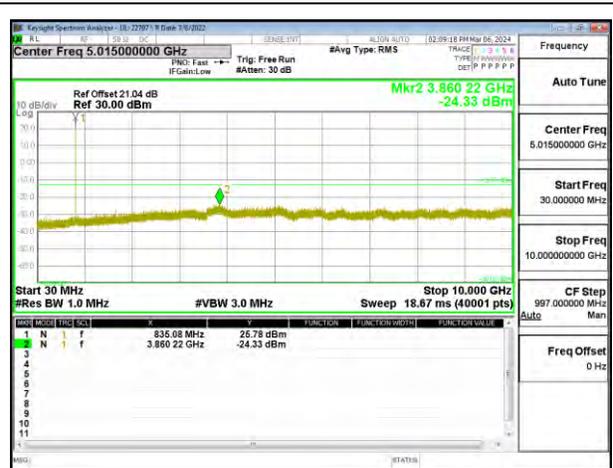
LTE B5 10MHz 16QAM High Channel RB1-0

5G NR n5

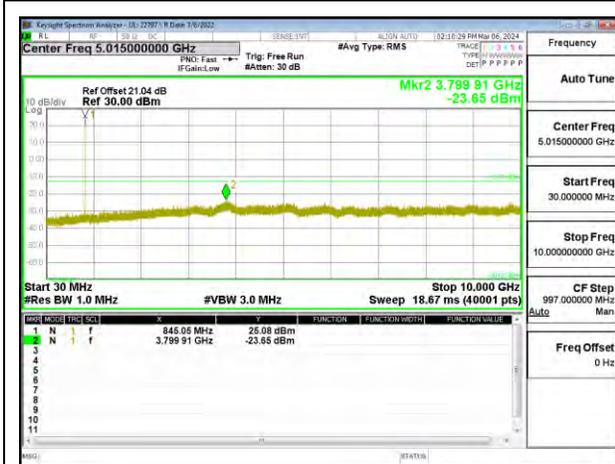
Test Engineer ID:	22797/85502	Test Date:	2024-03-06	EUT Serial Number:	<QV77000KL2>
-------------------	-------------	------------	------------	--------------------	--------------



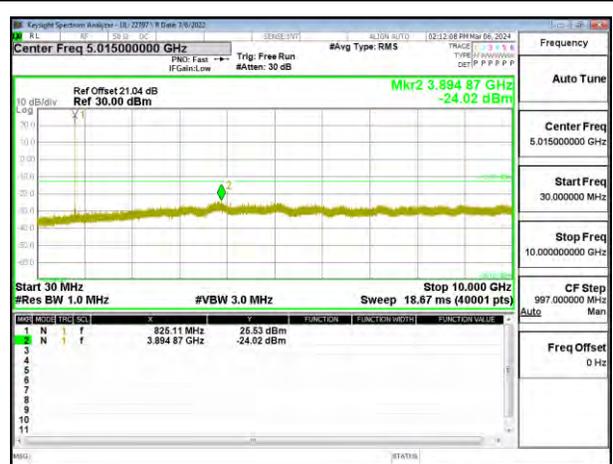
5G NR N5 5MHz BPSK Low Channel RB1-0



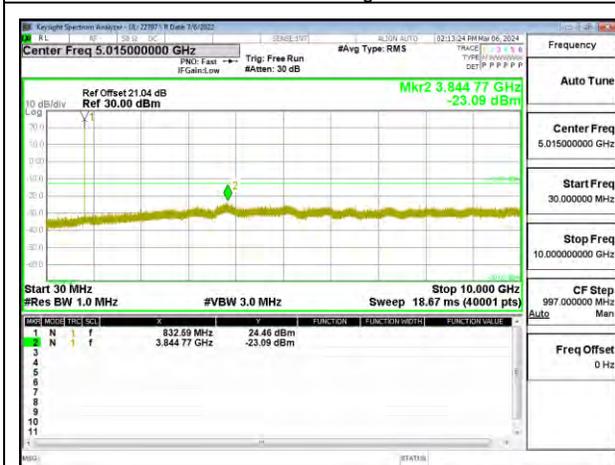
5G NR N5 5MHz BPSK Middle Channel RB1-0



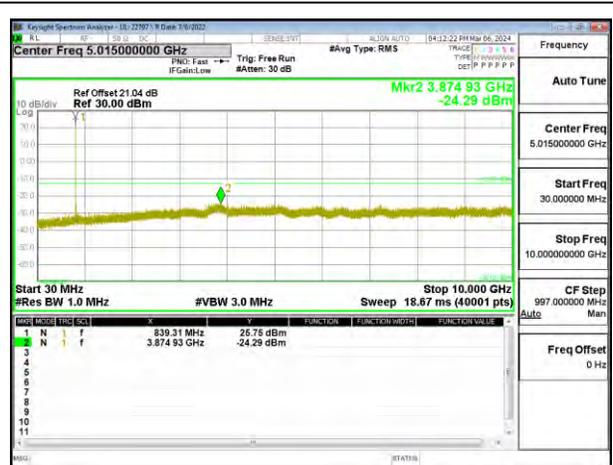
5G NR N5 5MHz BPSK High Channel RB1-0



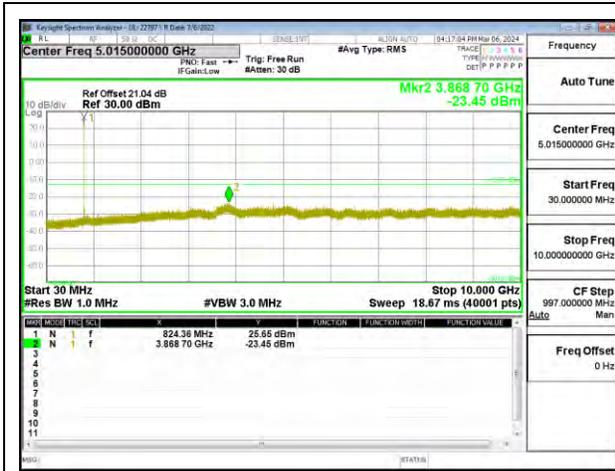
5G NR N5 10MHz BPSK Low Channel RB1-0



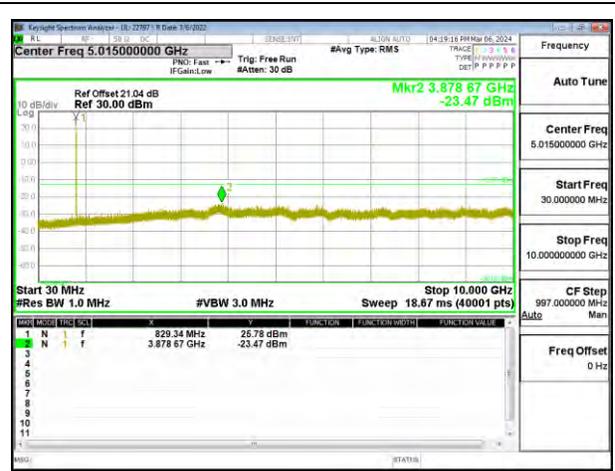
5G NR N5 10MHz BPSK Middle Channel RB1-0



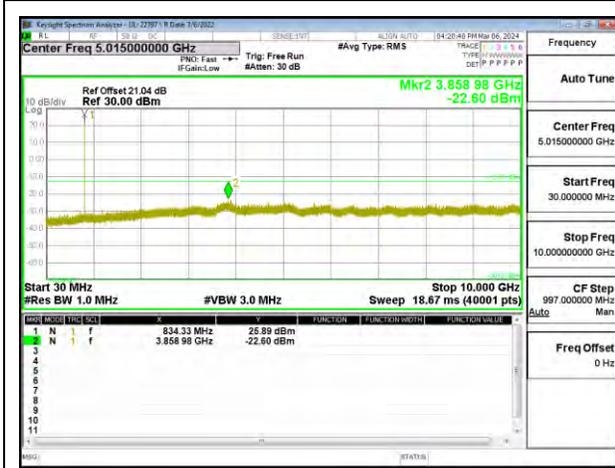
5G NR N5 10MHz BPSK High Channel RB1-0



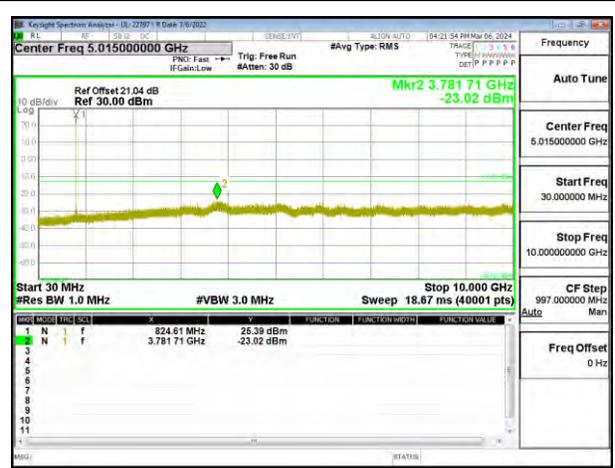
5G NR N5 15MHz BPSK Low Channel RB1-0



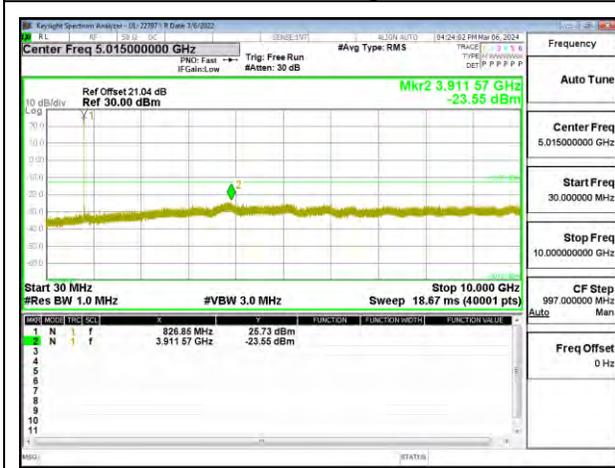
5G NR N5 15MHz BPSK Middle Channel RB1-0



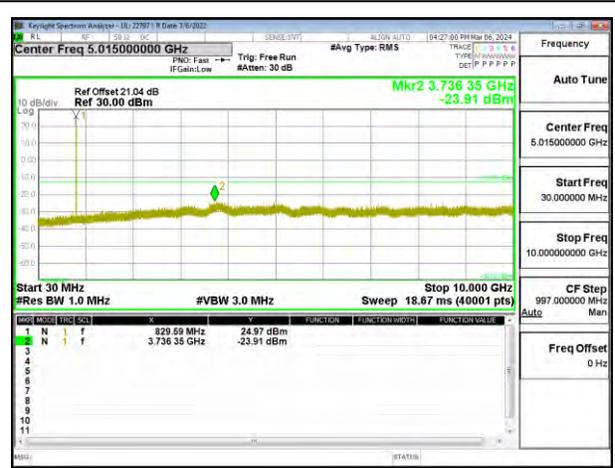
5G NR N5 15MHz BPSK High Channel RB1-0



5G NR N5 20MHz BPSK Low Channel RB1-0



5G NR N5 20MHz BPSK Middle Channel RB1-0



5G NR N5 200MHz BPSK High Channel RB1-0

### 9.3.5. LTE BAND 12

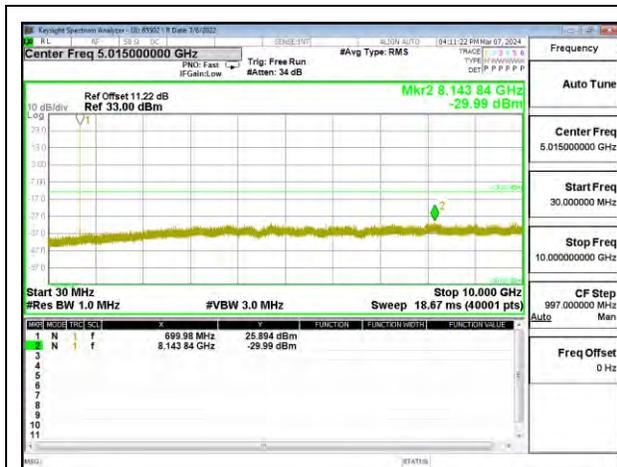
#### LIMITS

FCC: §27.53 (g)

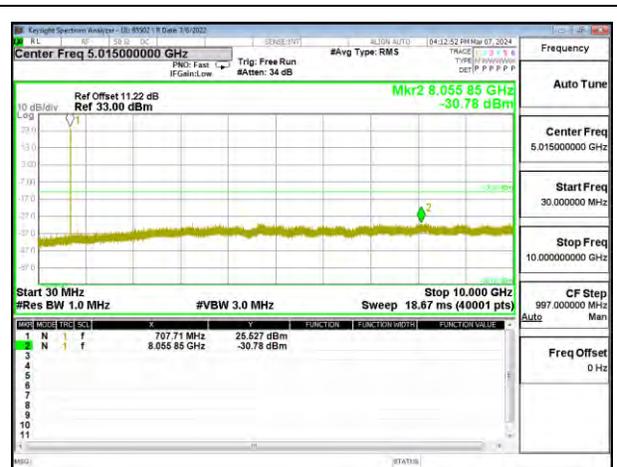
The minimum permissible attenuation level of any spurious emissions is  $43 + 10 \log (P)$  dB where transmitting power (P) in Watts.

<b>Test Engineer ID:</b>	85502	<b>Test Date:</b>	2024-03-08	<b>EUT Serial Number:</b>	QV7700DSLQ
--------------------------	-------	-------------------	------------	---------------------------	------------

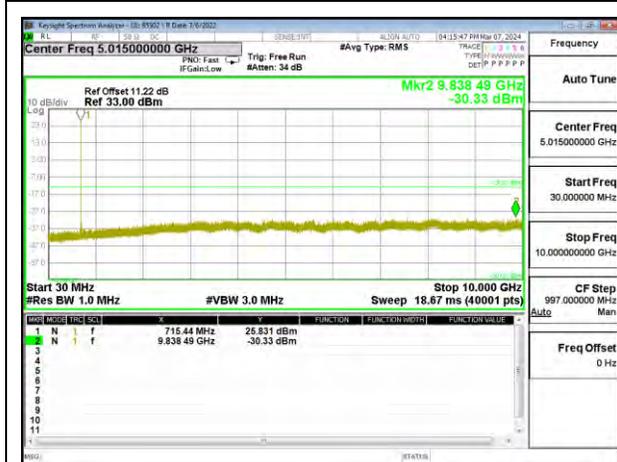
LTE BAND 12



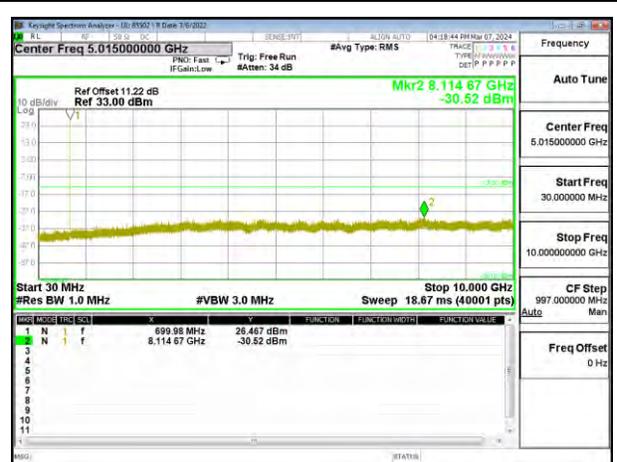
LTE B12 1.4MHz 16QAM Low Channel RB1-0



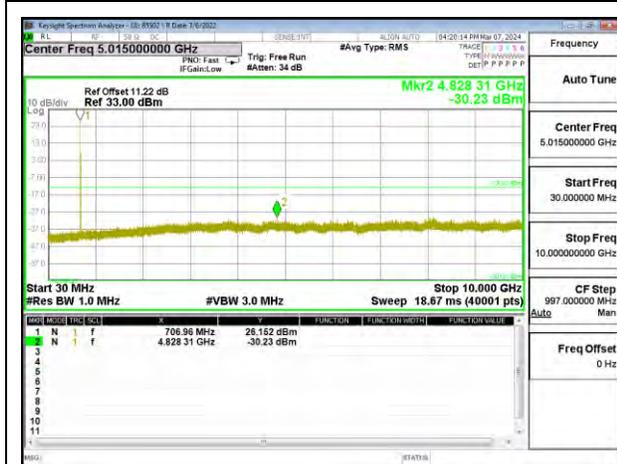
LTE B12 1.4MHz 16QAM Middle Channel RB1-0



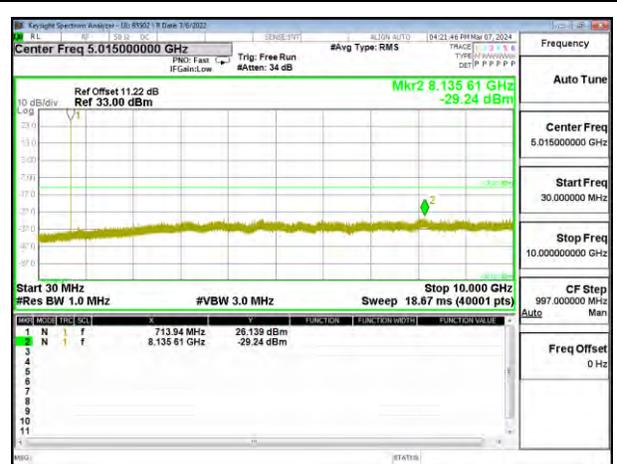
LTE B12 1.4MHz 16QAM High Channel RB1-0



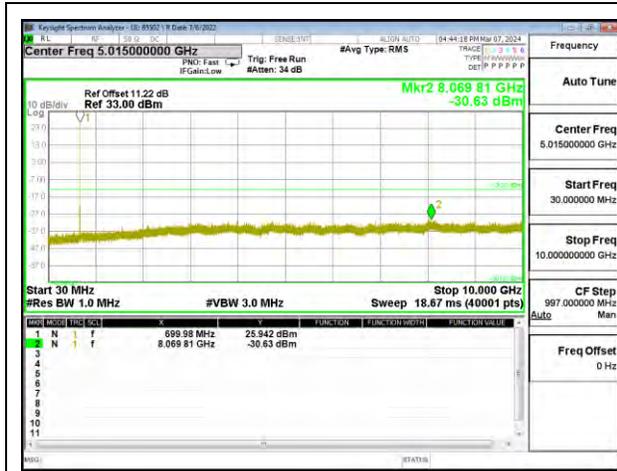
LTE B12 3MHz 16QAM Low Channel RB1-0



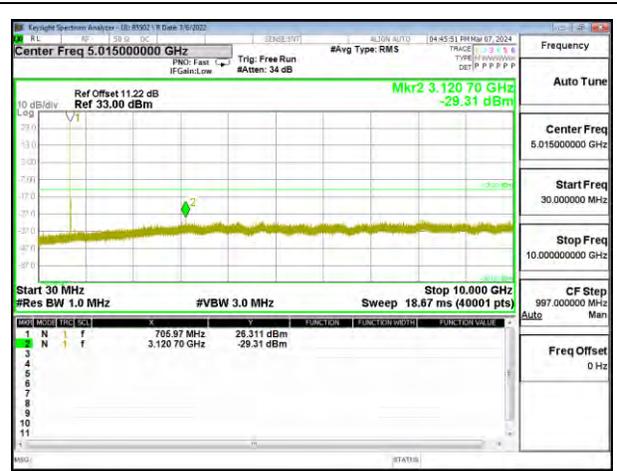
LTE B12 3MHz 16QAM Middle Channel RB1-0



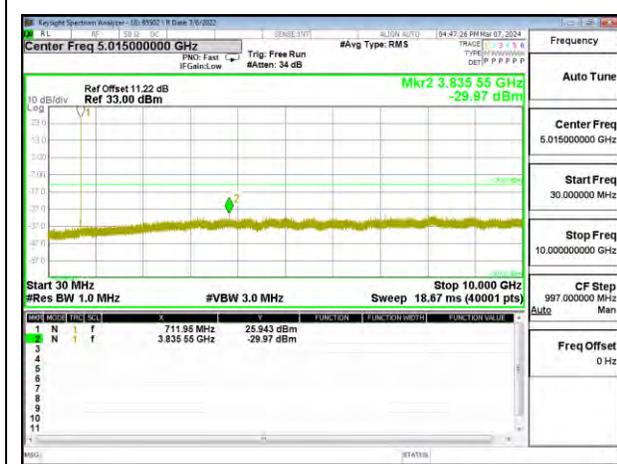
LTE B12 3MHz 16QAM High Channel RB1-0



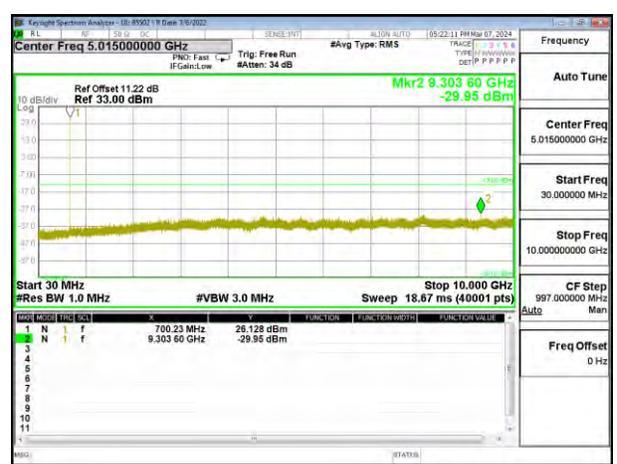
LTE B12 5MHz 16QAM Low Channel RB1-0



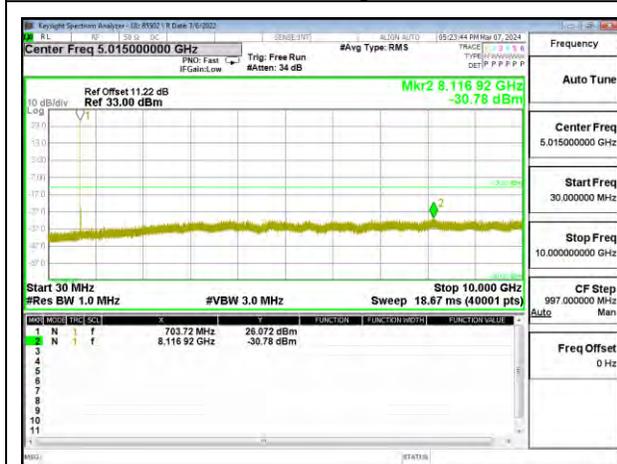
LTE B12 5MHz 16QAM Middle Channel RB1-0



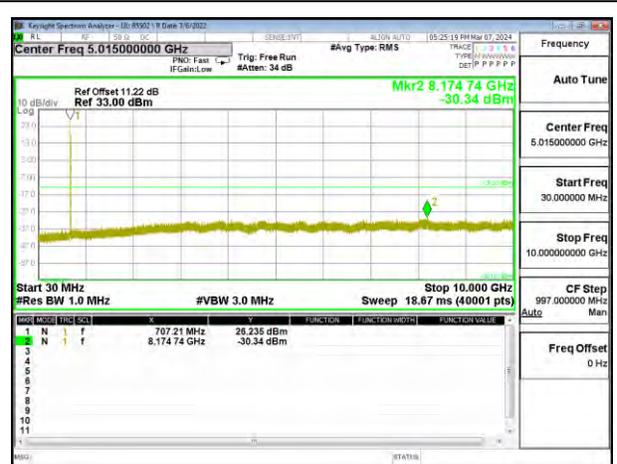
LTE B12 5MHz 16QAM High Channel RB1-0



LTE B12 10MHz 16QAM Low Channel RB1-0



LTE B12 10MHz 16QAM Middle Channel RB1-0



LTE B12 10MHz 16QAM High Channel RB1-0

9.3.6. LTE BAND 13

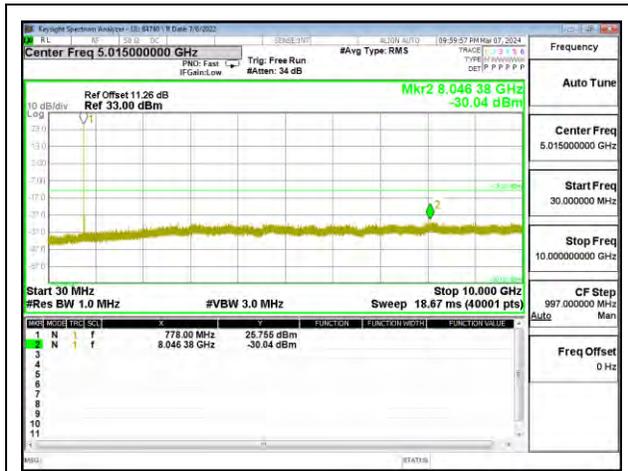
LIMITS

FCC: §27.53 (c), (f)

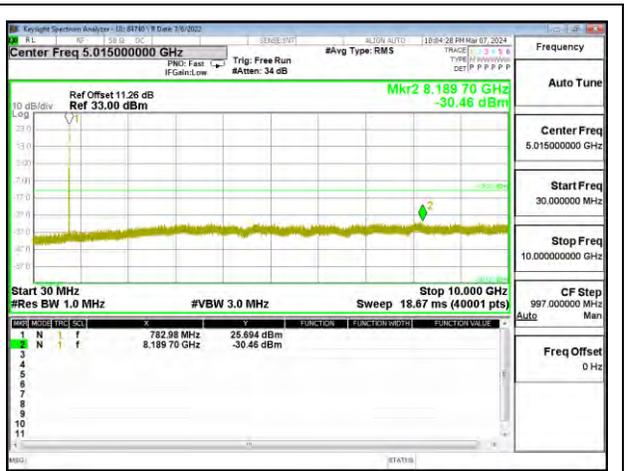
The minimum permissible attenuation level of any spurious emissions is 43 + 10 log (P) dB where transmitting power (P) in Watts. The band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

Note: Radiated data in section 9.1.6 confirms a compliance for the emissions in GPS 1559-1610 MHz band were wideband emissions therefore the -40dBm/MHz limit was used.

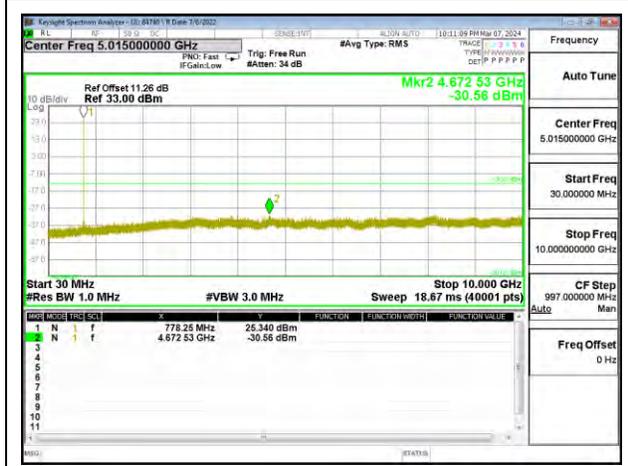
Test Engineer ID:	85502	Test Date:	2024-03-08	EUT Serial Number:	QV7700DSLQ
-------------------	-------	------------	------------	--------------------	------------



LTE B13 5MHz 16QAM Low Channel RB1-0



LTE B13 5MHz 16QAM High Channel RB1-0



LTE B13 10MHz 16QAM Middle Channel RB1-0

### 9.3.7. LTE BAND 41 AND 5G NR n41

#### LIMITS

FCC: §27.53 (m)

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

<b>Test Engineer ID:</b>	85502	<b>Test Date:</b>	2024-03-08	<b>EUT Serial Number:</b>	QV7700DSLQ
--------------------------	-------	-------------------	------------	---------------------------	------------