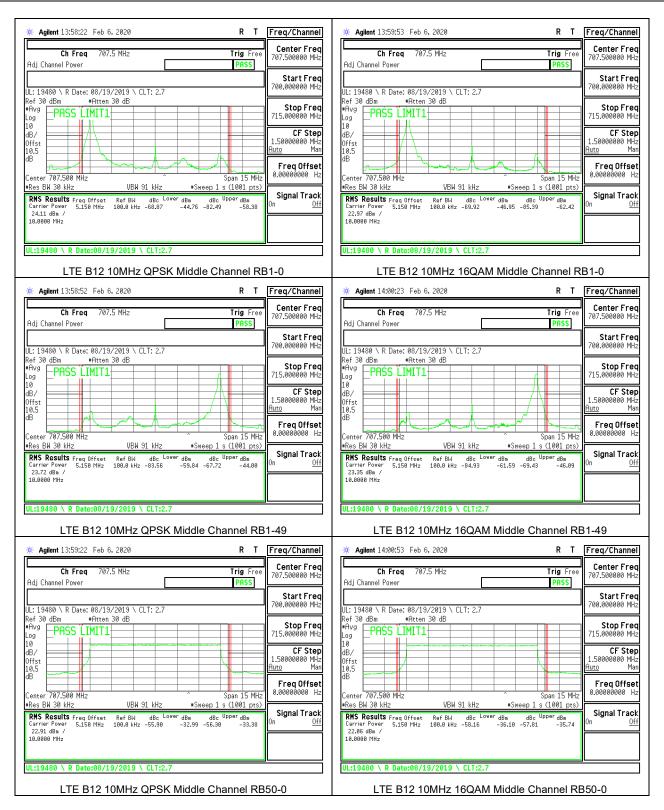


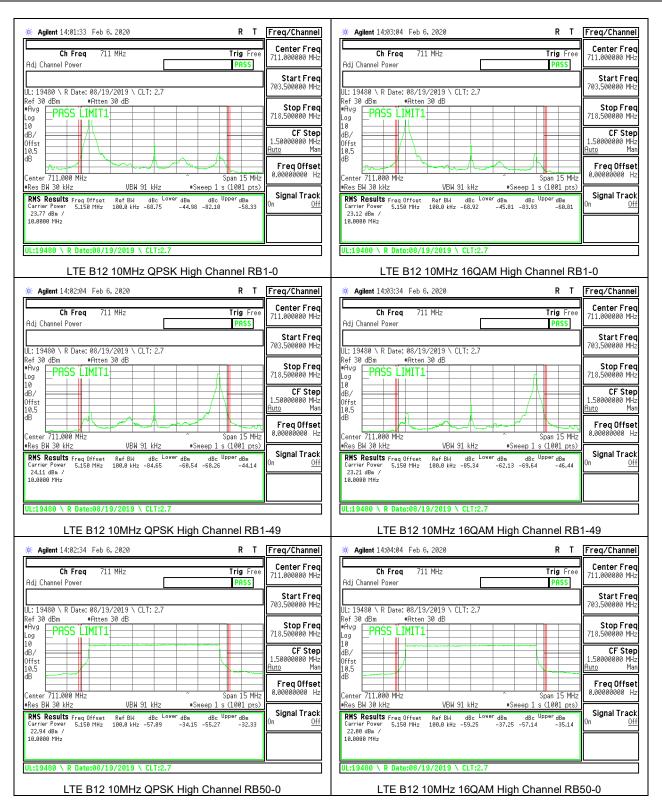
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8.2.10. LTE BAND 13 ADJACENT CHANNEL POWER

LIMITS

FCC: §27.53

(c) For operations in the 746-758 MHz band and the 776-788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;

(4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations;

(5) Compliance with the provisions of paragraphs (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed;

(6) Compliance with the provisions of paragraphs (c)(4) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

(f) Emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals. (-70 dBW/MHz = -40dBm/MHz).

ISED: RSS130§4.7

4.7.1 General unwanted emissions limits

The unwanted emissions in any 100 kHz bandwidth on any frequency outside the low frequency edge and the high frequency edge of each frequency block range(s), shall be attenuated below the transmitter power, P (dBW), by at least 43 + 10 log₁₀ p (watts), dB. However, in the 100 kHz band immediately outside of the equipment's frequency block range, a resolution bandwidth of 30 kHz may be employed.

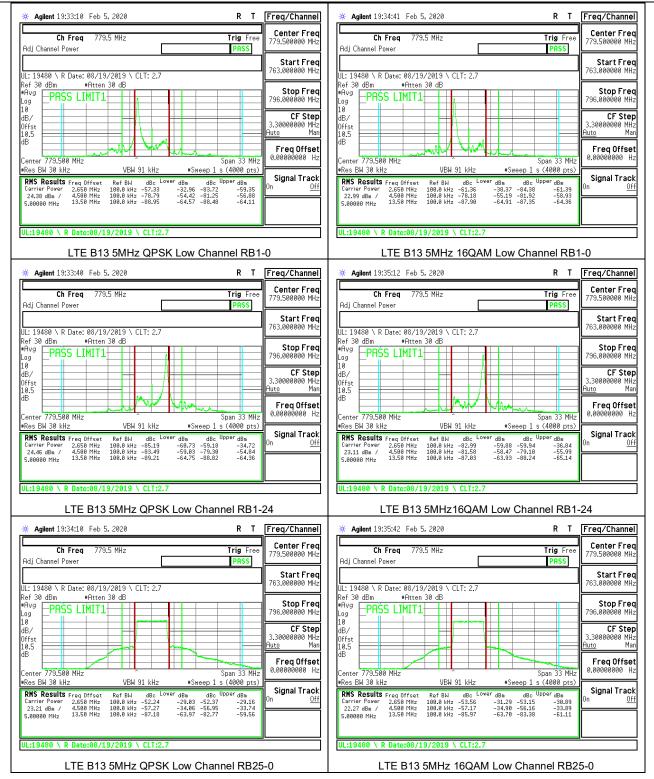
4.7.2 Additional unwanted emissions limits

In addition to the limit outlined in section 4.7.1 above, equipment operating in the frequency bands 746-756 MHz and 777-787 MHz shall also comply with the following restrictions:

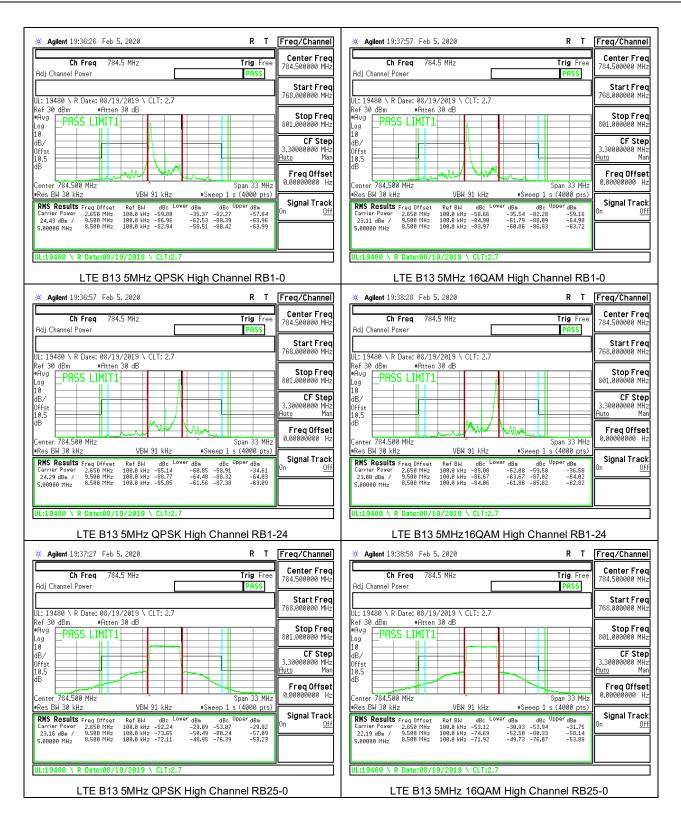
- (a) the power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P (dBW), by at least:
 - i. $76 + 10 \log_{10} p$ (watts), dB, for base and fixed equipment and
 - ii. $65 + 10 \log_{10} p$ (watts), dB, for mobile and portable equipment
- (b) the e.i.r.p. in the band 1559-1610 MHz shall not exceed -70 dBW/MHz for wideband signal and -80 dBW for discrete emission with bandwidth less than 700 Hz.

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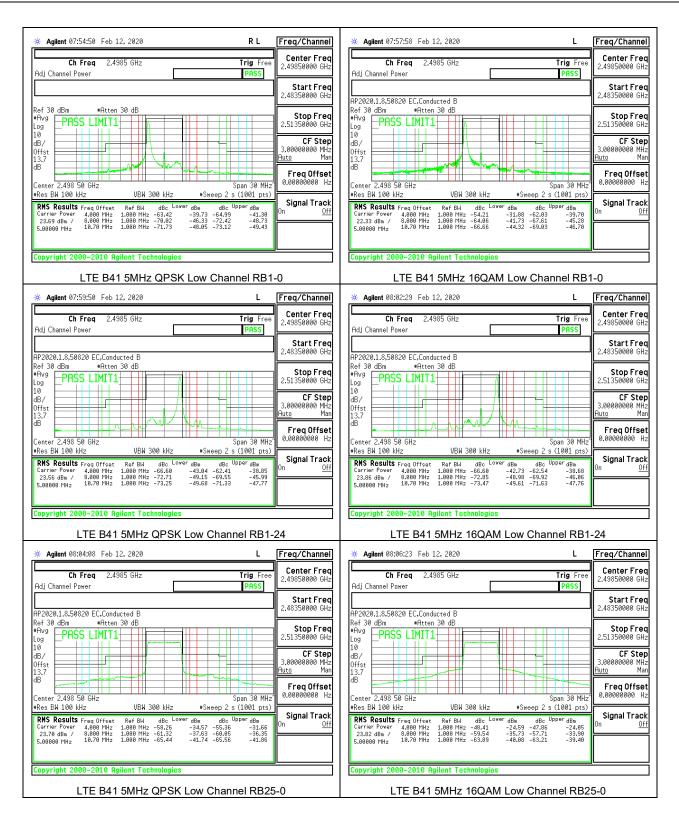
8.2.11. LTE BAND 41 ADJACENT CHANNEL POWER (FCC)

LIMITS

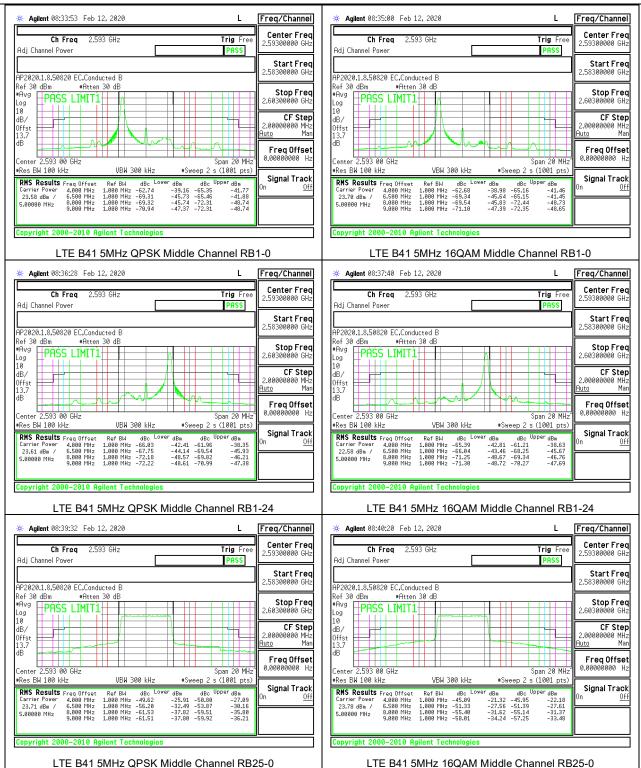
FCC: §27.53

(m)(4) For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between 5 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 that 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.

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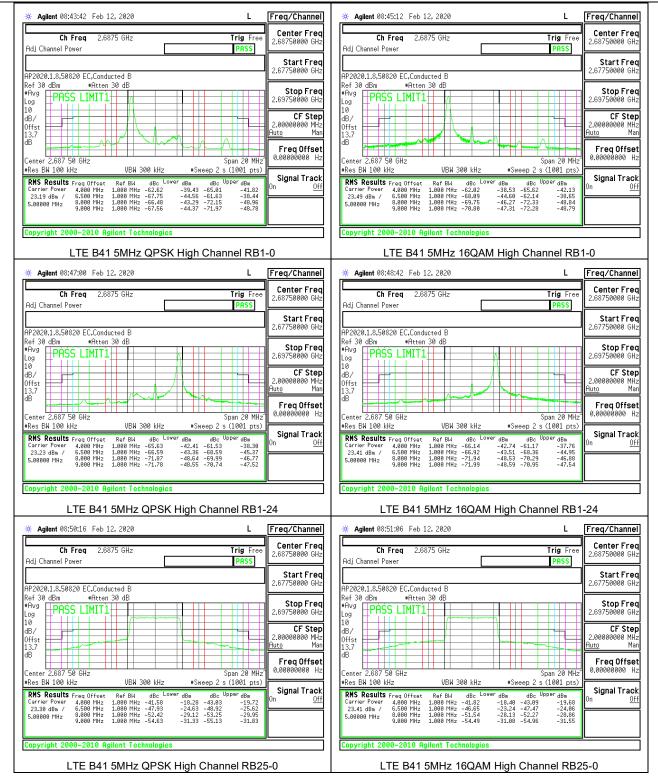


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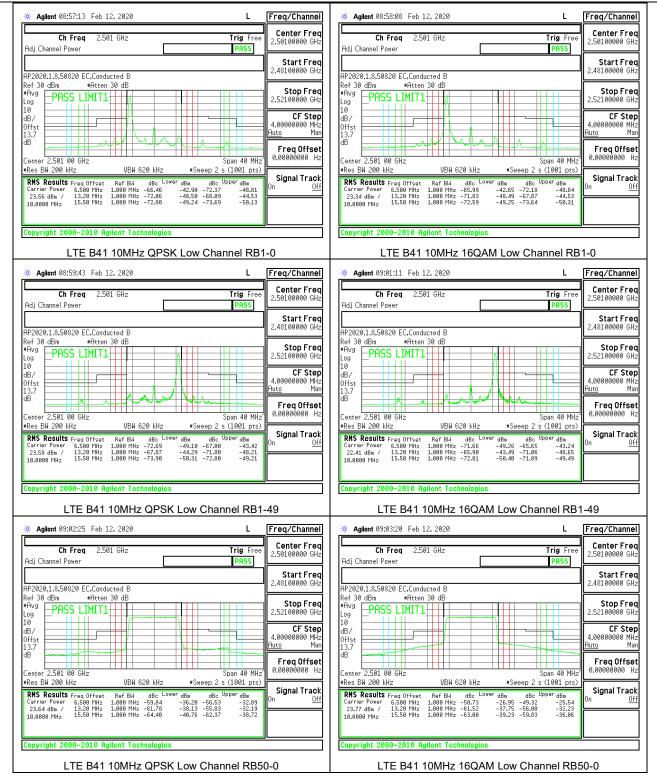
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DATE: March 06, 2020 ISED: 649E-SMA715W

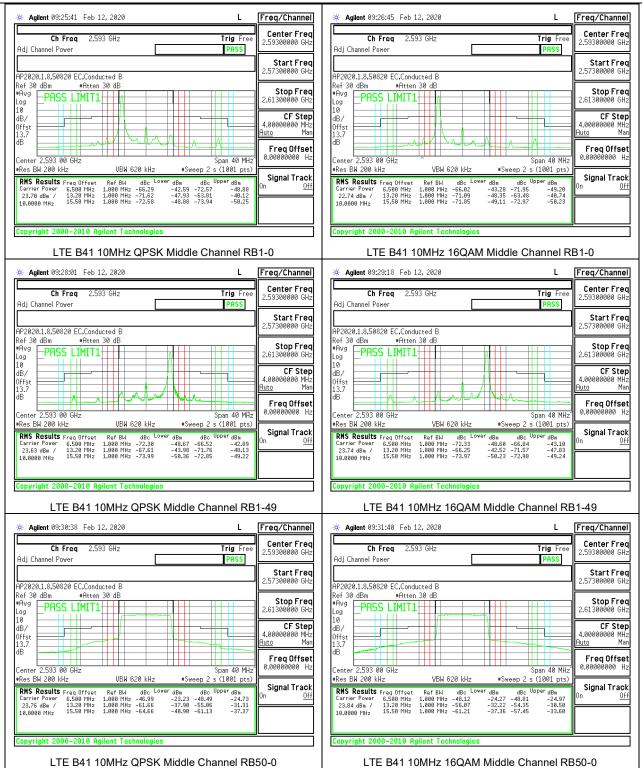


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DATE: March 06, 2020 ISED: 649E-SMA715W

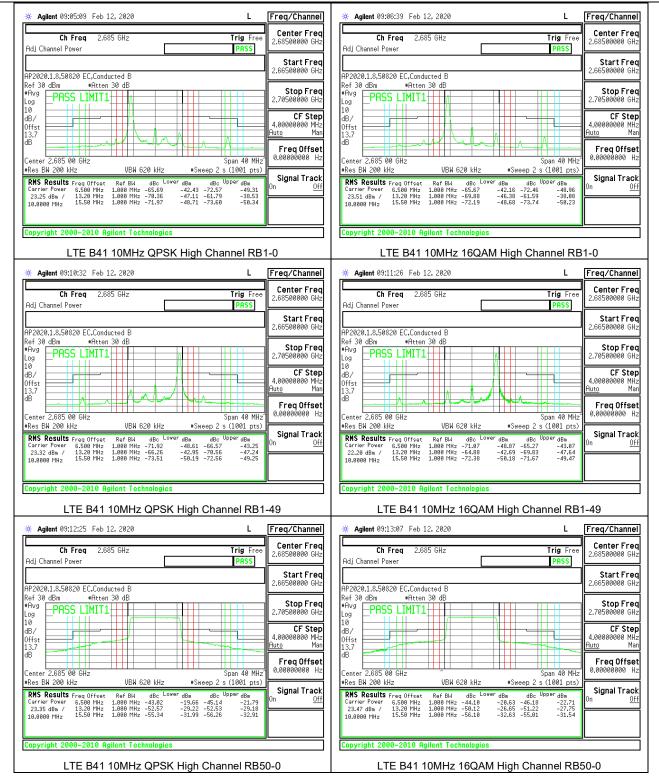


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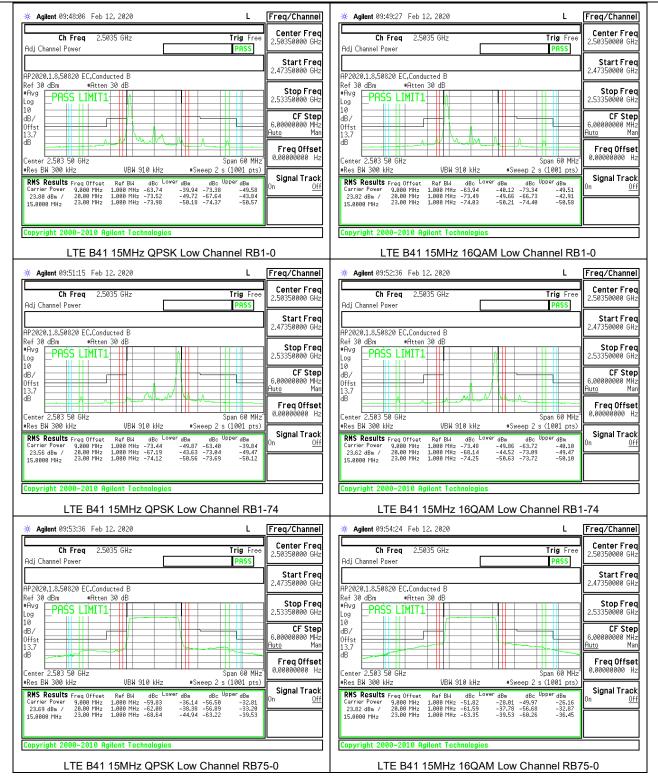
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DATE: March 06, 2020 ISED: 649E-SMA715W

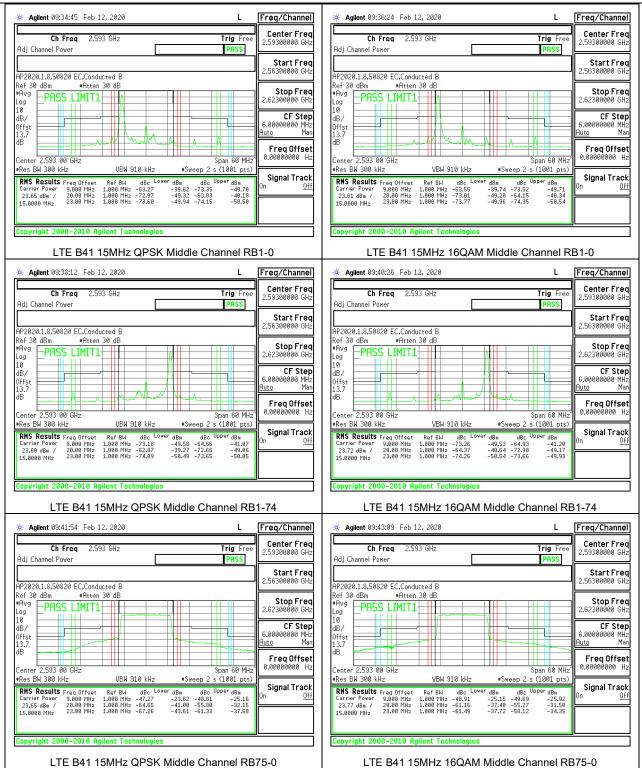


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8.2.12. LTE BAND 41 ADJACENT CHANNEL POWER (IC)

LIMITS

ISED: RSS199§4.5

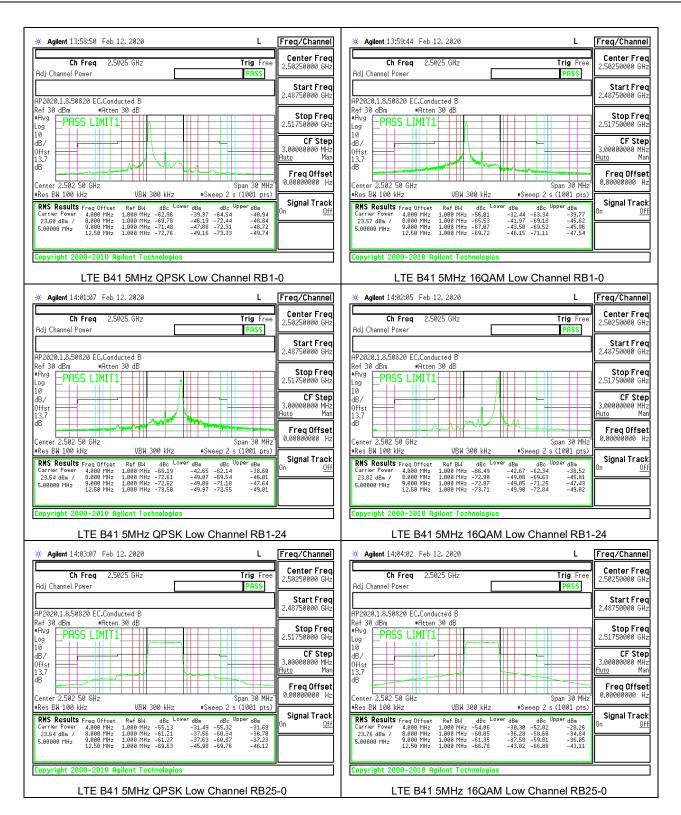
Equipment shall comply with the following unwanted emission limits:

- a. for base station and fixed subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least 43 + 10 log₁₀ p
- b. for mobile subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least:
 - i. $40 + 10 \log_{10} p$ from the channel edges to 5 MHz away
 - ii. $43 + 10 \log_{10} p$ between 5 MHz and X MHz from the channel edges, and
 - iii. $55 + 10 \log_{10} p$ at X MHz and beyond from the channel edges

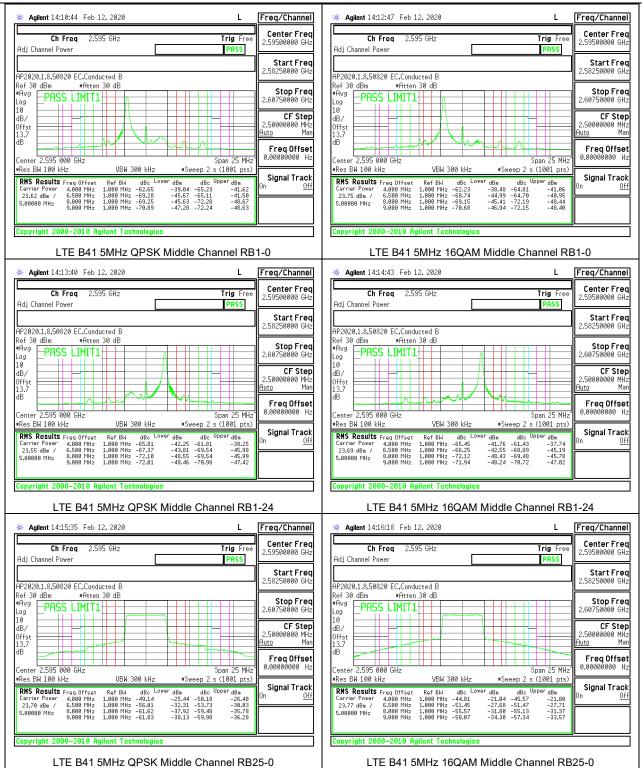
In addition, the attenuation shall not be less than $43 + 10 \log_{10} p$ on all frequencies between 2490.5 MHz and 2496 MHz, and 55 + 10 log₁₀ p at or below 2490.5 MHz.

In (a) and (b), **p** is the transmitter power measured in watts and **X** is 6 MHz or the equipment occupied bandwidth, whichever is greater.

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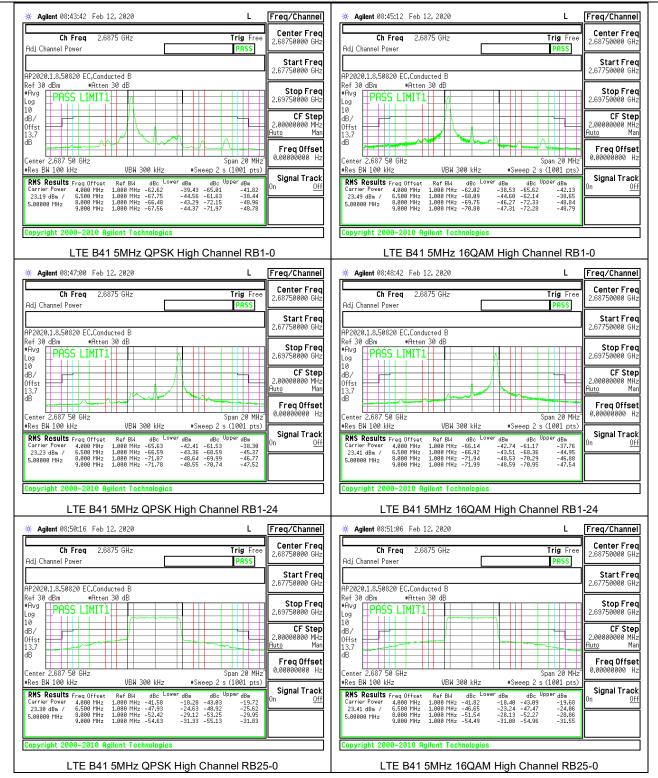


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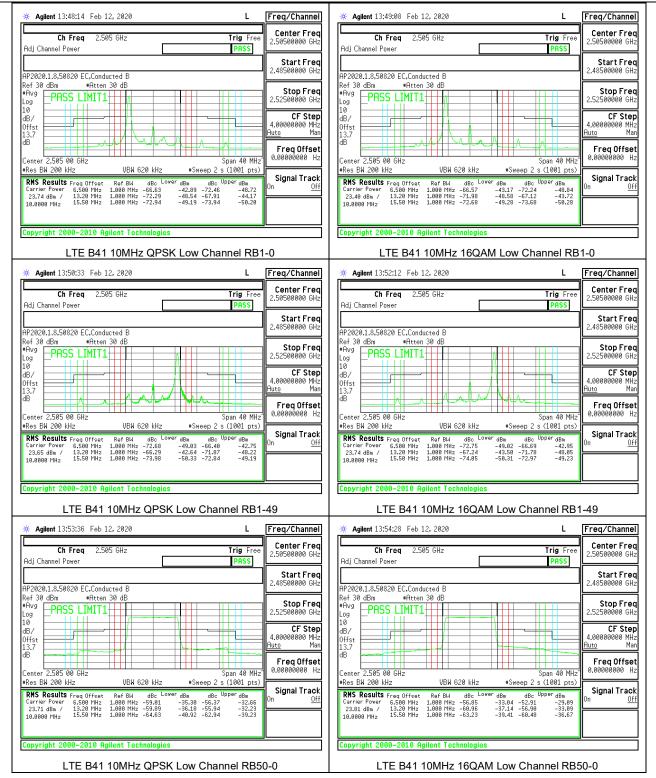
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DATE: March 06, 2020 ISED: 649E-SMA715W

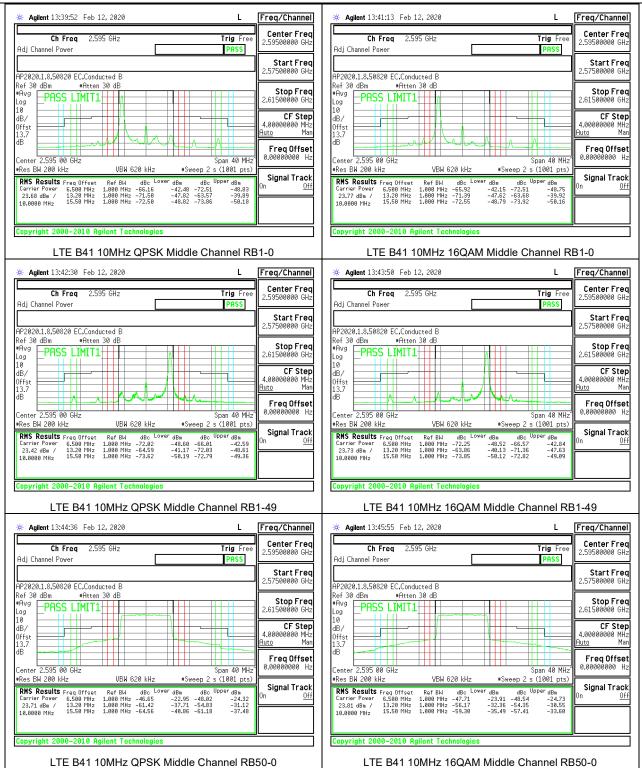


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DATE: March 06, 2020 ISED: 649E-SMA715W

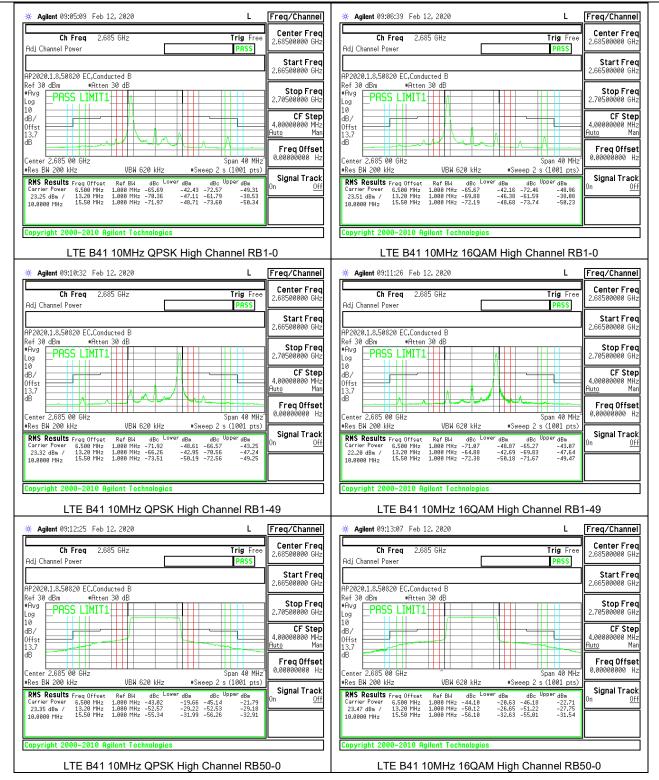


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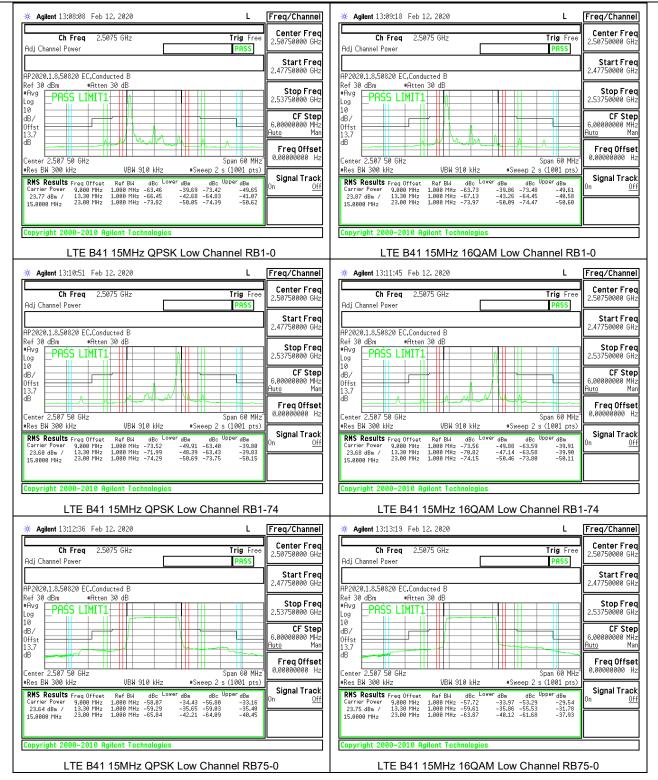
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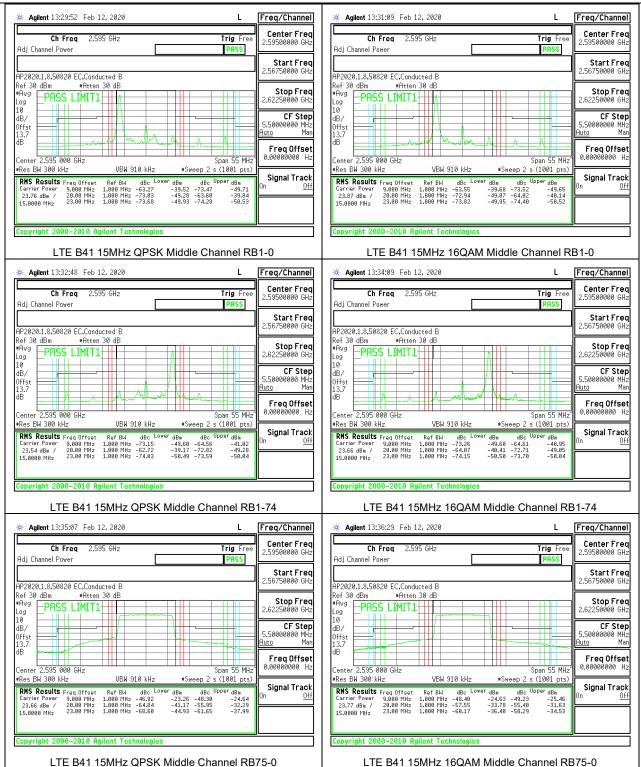


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8.2.13. LTE BAND 66 BANDEDGE

LIMITS

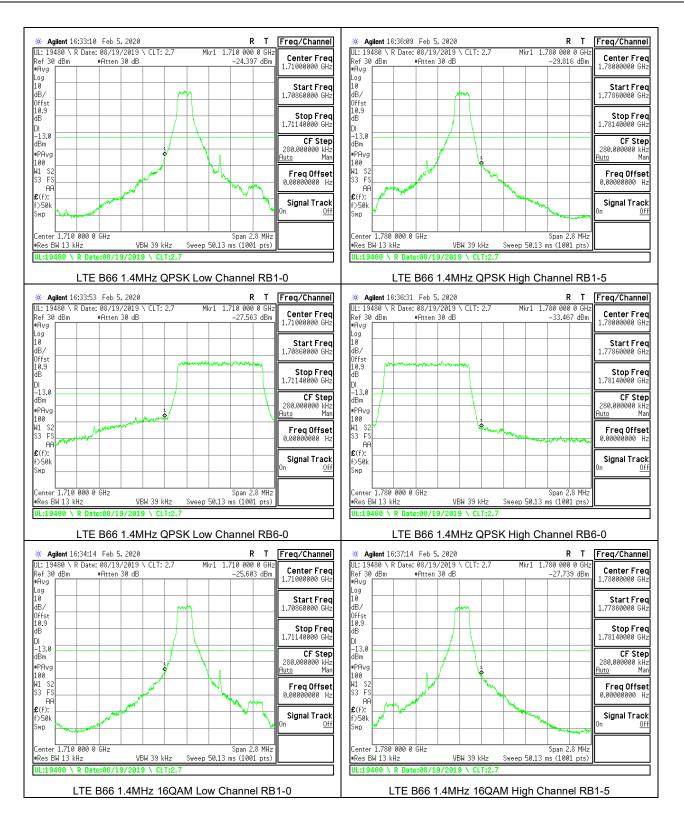
FCC: §27.53(h)

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.

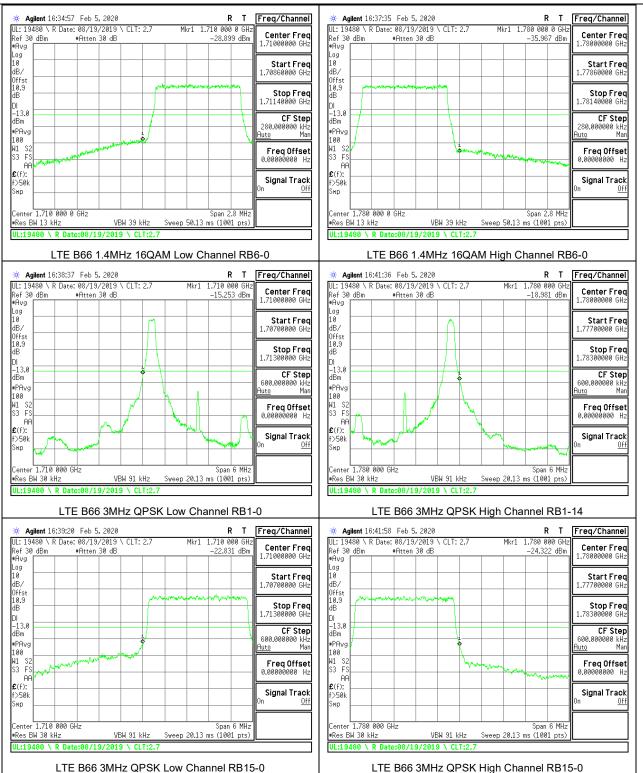
ISED: RSS139§6.6

- (i) In the first 1.0 MHz bands immediately outside and adjacent to the equipment's smallest operating frequency block, Footnote2 which can contain the equipment's occupied bandwidth, the emission power per any 1% of the emission bandwidth shall be attenuated below the transmitter output power P (in dBW) by at least43 + 10 log10 p (watts) dB.
- (ii) After the first 1.0 MHz outside the equipment's smallest operating frequency block, which can contain the equipment's occupied bandwidth, the emission power in any 1 MHz bandwidth shall be attenuated below the transmitter output power P (in dBW) by at least 43 + 10 log10 p (watts) dB.

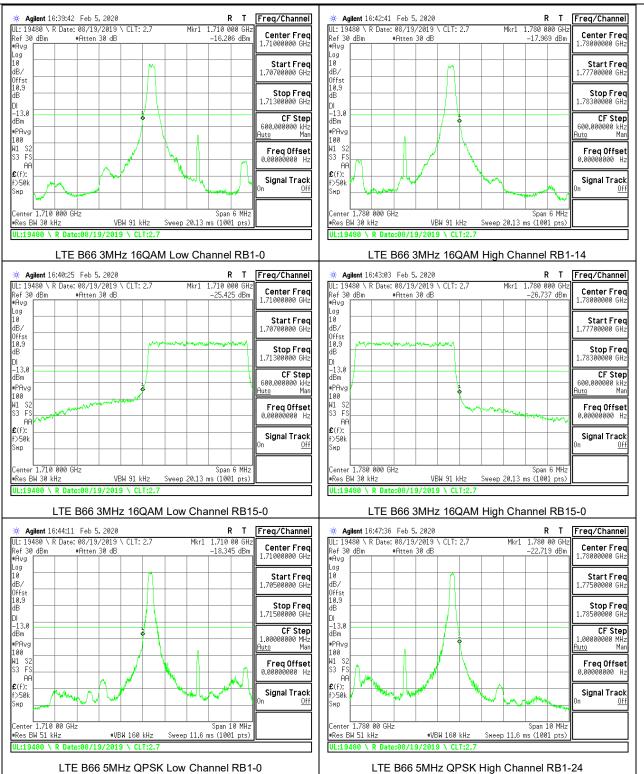
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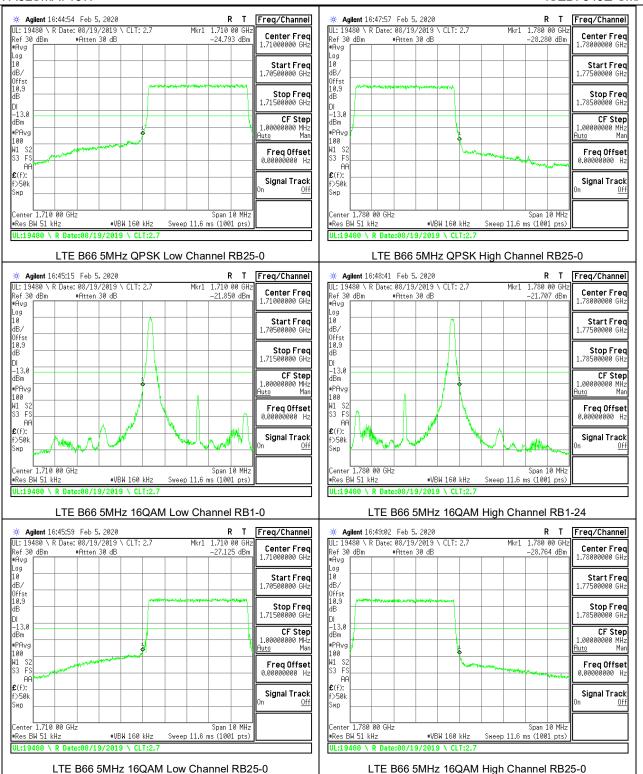
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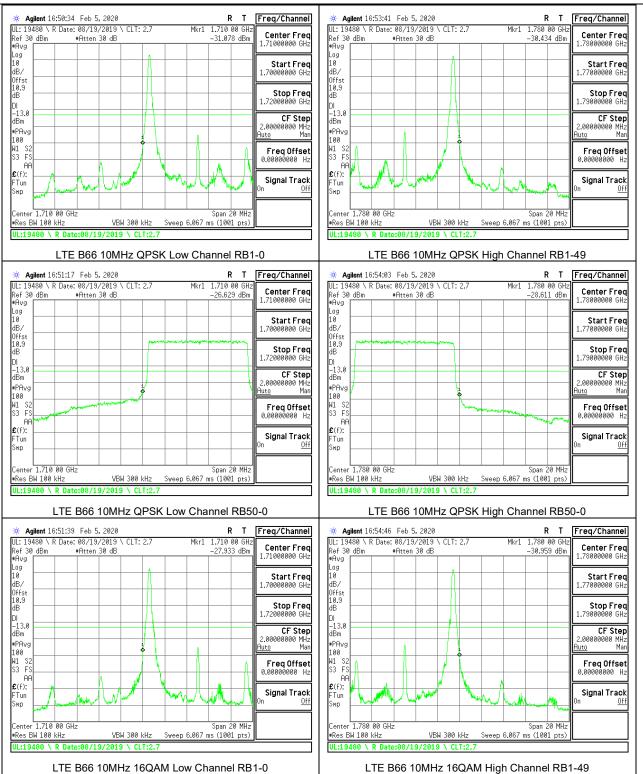
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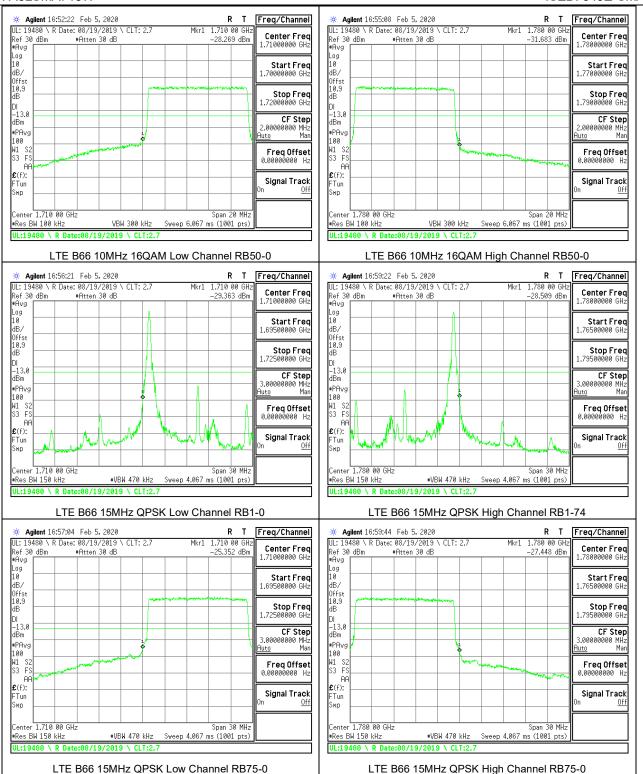


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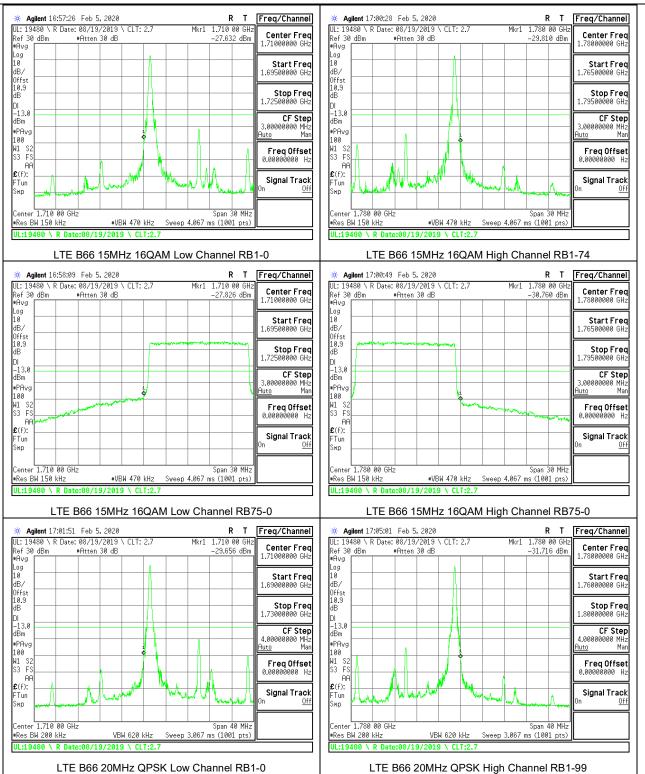
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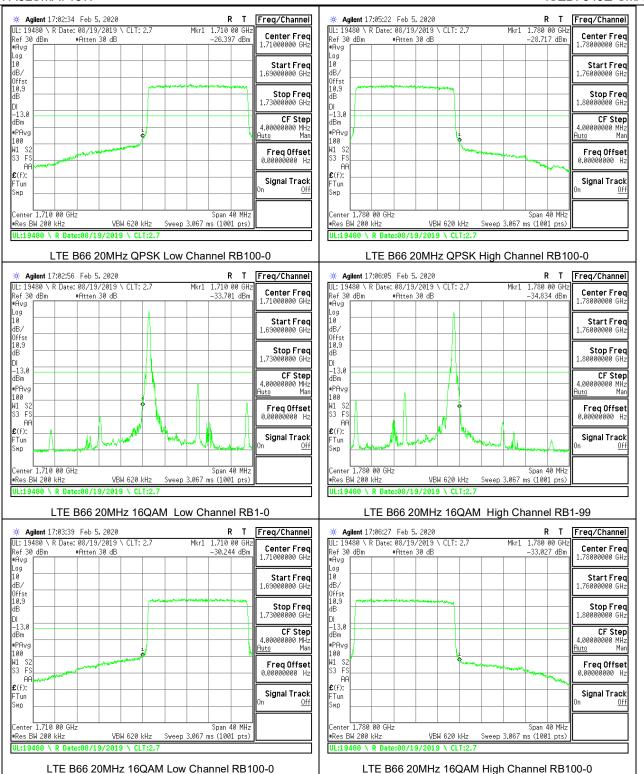


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8.2.14. LTE BAND 71 ADJACENT CHANNEL POWER

LIMITS

FCC: §27.53

(g) For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least 43 + 10 log (P) dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

ISED: RSS130§4.7

4.7.1 General unwanted emissions limits

The unwanted emissions in any 100 kHz bandwidth on any frequency outside the low frequency edge and the high frequency edge of each frequency block range(s), shall be attenuated below the transmitter power, P (dBW), by at least 43 + 10 log₁₀ p (watts), dB. However, in the 100 kHz band immediately outside of the equipment's frequency block range, a resolution bandwidth of 30 kHz may be employed.

4.7.2 Additional unwanted emissions limits

In addition to the limit outlined in section 4.7.1 above, equipment operating in the frequency bands 746-756 MHz and 777-787 MHz shall also comply with the following restrictions:

- (a) the power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P (dBW), by at least:
 - i. 76 + 10 log₁₀ p (watts), dB, for base and fixed equipment and
 - ii. 65 + 10 log₁₀ p (watts), dB, for mobile and portable equipment
- (b) the e.i.r.p. in the band 1559-1610 MHz shall not exceed −70 dBW/MHz for wideband signal and −80 dBW for discrete emission with bandwidth less than 700 Hz.

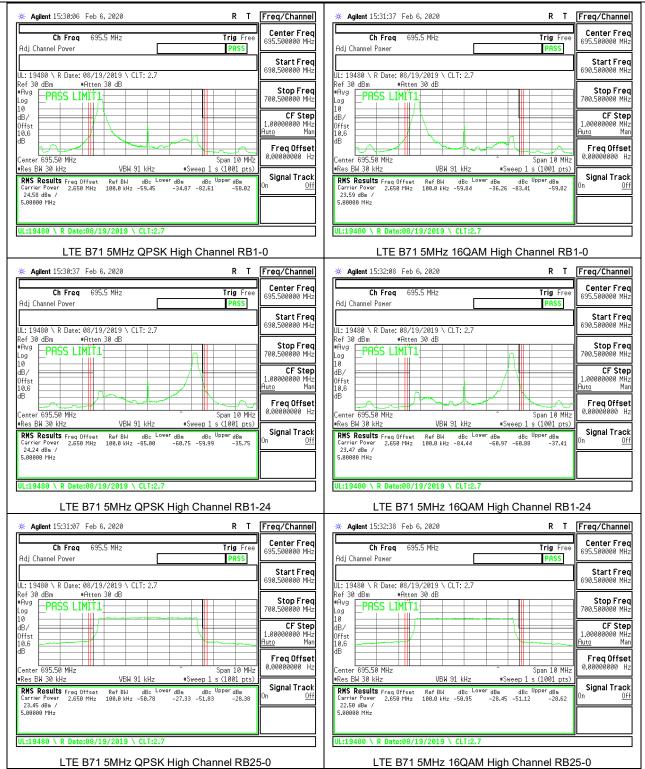
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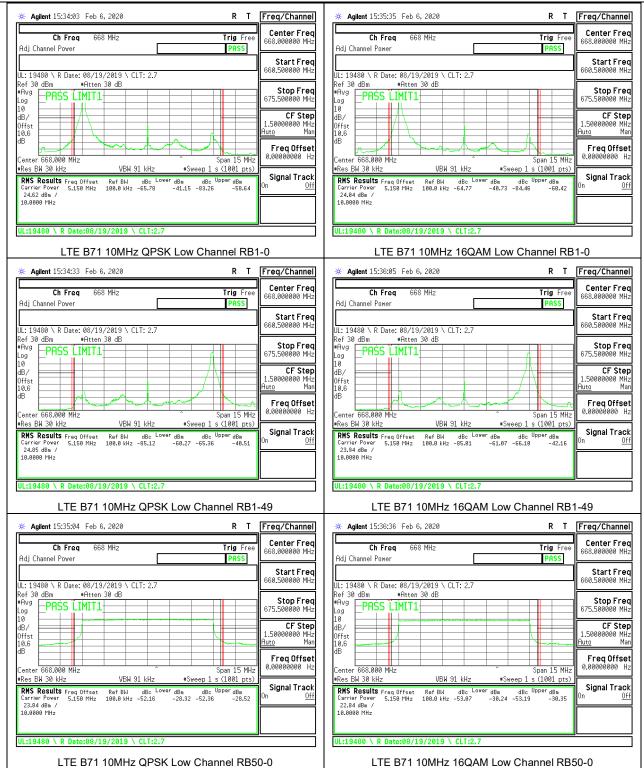
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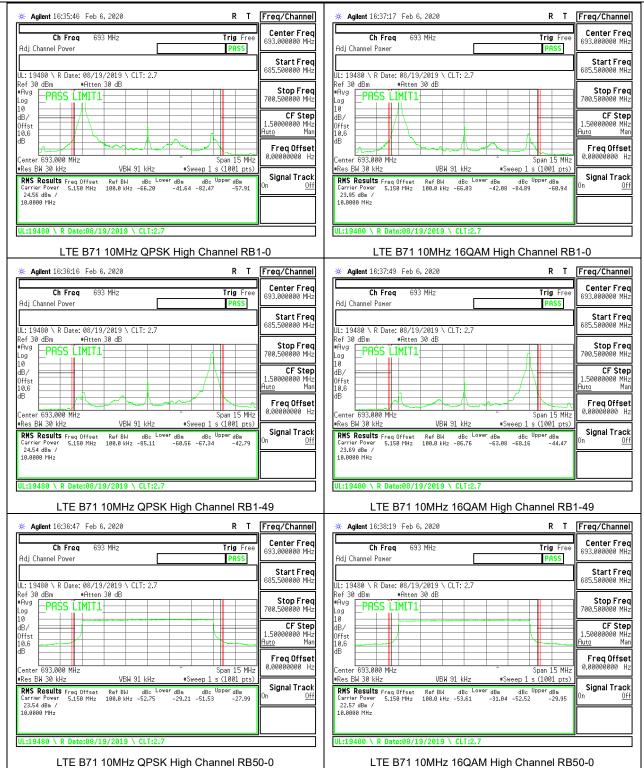
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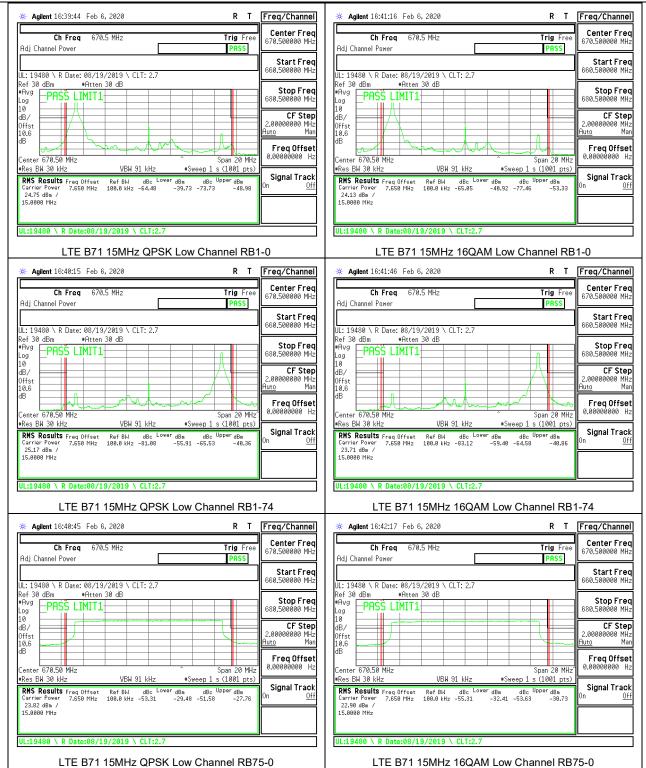
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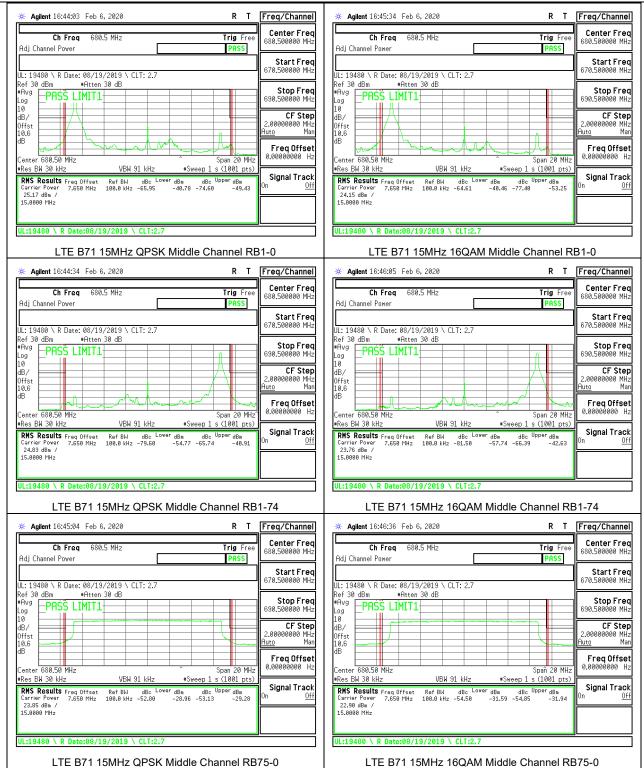
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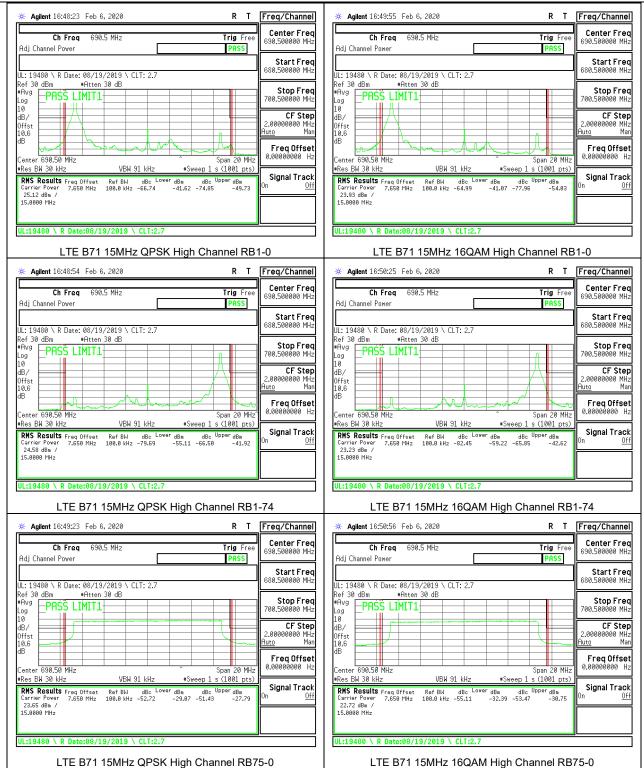
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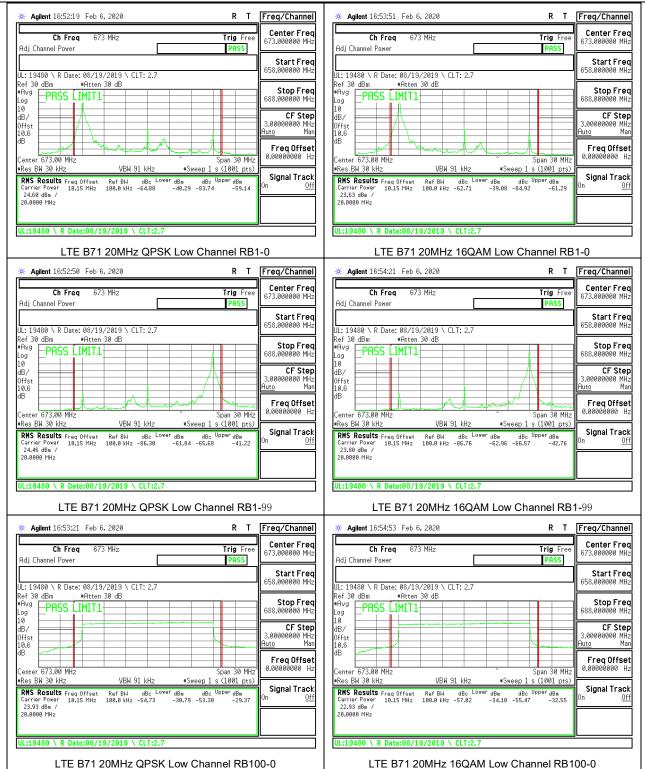
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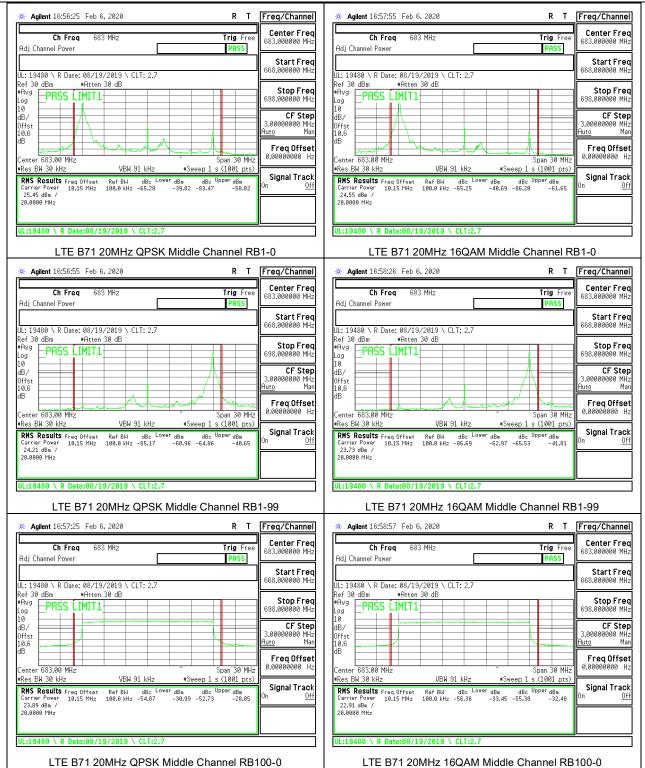
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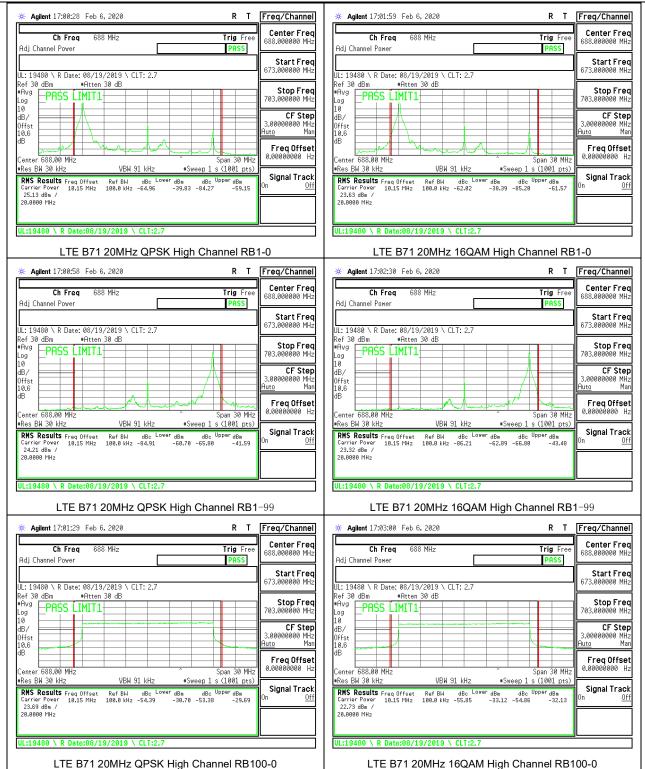
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DATE: March 06, 2020 ISED: 649E-SMA715W

8.3. OUT OF BAND EMISSIONS

RULE PART(S)

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

ISED: RSS130§4.7, RSS132§5.5; RSS133§6.5, RSS139§6.6, RSS199§4.5.

LIMITS

FCC: §22.917, §24.238, §27.53 (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 (c), (f) (Band 13)

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 with narrowband limits for GPS1559-1610 MHz band.

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.

RSS130§4.7, RSS132§5.5, RSS133§6.5, RSS139§6.6 The minimum permissible attenuation level of any spurious emissions is 43 + 10 log (P) dB where transmitting power (P) in Watts.

RSS199§4.5

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)

RESULTS

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8.3.1. GSM 850

LIMITS

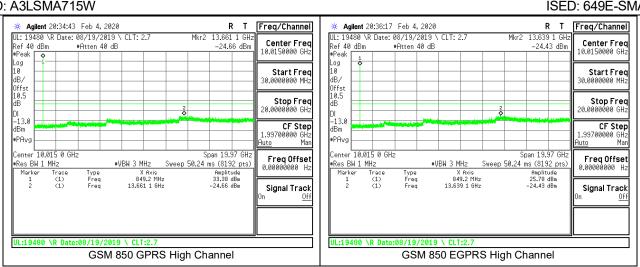
FCC: §22.917

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 $43 + 10 \log (P) dB$.

| ☆ Agilent 20:33:47 Feb 4, 2020 R T Freq/Ch | annel 🔆 Agilent 20:35:21 Feb 4, 2020 R T Freq/Channel |
|---|--|
| UL: 19480 \R Date: 08/19/2019 \ CLT: 2.7 Mkr2 13.683 0 GHz Ref 40 dBm •Atten 40 dB -24.28 dBm 10.01500 Peak | -24./3 dbm +ntten 40 db -24./3 dbm 40 db -24./3 dbm |
| Peak 0 10.01500 | 10 GHZ Log 1 10.0150000 GHZ |
| | Freq 10 Start Freq |
| 10.5 dB | Freq |
| | |
| dBm | Step 09 GH2 |
| Center 10.015 0 GHz Span 19.97 GHz Freq C | Center 10.015 0 GHz Span 19.97 GHz Preq Offset Freq Offset |
| *Kes BW 1 MHZ #VBW 3 MHZ Sweep 50.24 ms (8192 pts) 0.000000 Marker Trace Type X Axis Amplitude | 00 Hz Res DM I MHZ #VDM 3 MHZ 5Weep 50.24 ms (0192 pts) 0.00000000 Hz |
| 1 (1) Freq 824.8 MHz 33.45 dBm 2 (1) Freq 13.683 0 GHz -24.28 dBm On | 1 (1) Freq 824.8 MHz 27.43 dBm Track 2 (1) Freq 13.658 7 GHz -24.79 dBm 0ff 0ff 0n 0ff 0n 0ff |
| | |
| | |
| UL:19480 \R Date:08/19/2019 \ CLT:2.7 | UL:19480 \R Date:08/19/2019 \ CLT:2.7 |
| GSM 850 GPRS Low Channel | GSM 850 EGPRS Low Channel |
| | |
| * Agilent 20:34:15 Feb 4, 2020 R T Freq/Ch | annel 🔆 Agilent 20:35:49 Feb 4, 2020 R T Freq/Channel |
| UL: 19480 \R Date: 08/19/2019 \ CLT: 2.7 Mkr2 13.839 1 GHz | UL: 19480 \R Date: 08/19/2019 \ CLT: 2.7 Mkr2 14.290 1 GHz |
| UL: 19480 \R Date: 08/19/2019 \ CLT: 2.7 Mkr2 13.839 1 GHz Ref 40 dBm •Atten 40 dB -24.07 dBm 10.015000 •Peak ◊ | Freq 00 GHz UL: 19480 \R Date: 08/19/2019 \ CLT: 2.7 Mkr2 14.290 1 GHz -24.75 dBm Center Freq 10.0150000 GHz |
| UL: 19480 \R Date: 08/19/2019 \ CLT: 2.7 Mkr2 13.839 1 GHz Ref 40 dBm •Atten 40 dB -24.07 dBm 10.015000 Peak 0 10 Start | Freq 00 GHz UL: 19480 \R Date: 08/19/2019 \ CLT: 2.7 Mkr2 14.290 1 GHz -24.75 dBm Center Freq 10.0150000 GHz irreq i <td< td=""></td<> |
| UL: 19480 \R Date: 08/19/2019 \ CLT: 2.7 Mkr2 13.839 1 GHz Ref 40 dBm *Atten 40 dB -24.07 dBm 10.015000 log d dB/ dB/ Start 30.000000 | Freq 00 GHz UL: 19480 \R Date: 08/19/2019 \ CLT: 2.7 Mkr2 14.290 1 GHz -24.75 dBm Center Freq 10.0150000 GHz Freq 00 MHz 1 1 1 10.0150000 GHz Freq 00 MHz 1 1 1 10.0150000 GHz Start Freq 04 / dB/ 30.000000 MHz 30.000000 MHz 30.000000 MHz |
| UL: 19480 \R Date: 08/19/2019 \ CLT: 2.7 Mkr2 13.839 1 GHz Ref 40 dBm •Atten 40 dB -24.07 dBm 10.01500 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Freq 00 GHz UL: 19480 \R Date: 08/19/2019 \CLT: 2.7 Mkr2 14.290 1 GHz -24.75 dBm Center Freq 10.0150000 GHz 10 GHz 00 GHz Image: 100 mm Image: 100 mm <td< td=""></td<> |
| UL: 19480 \R Date: 08/19/2019 \ CLT: 2.7 Mkr2 13.839 1 GHz Peak Peak 10.01500 10 10 10 10 10 10 10 1 | Freq 90 GHz UL: 19480 \kn Date: 08/19/2019 \kl CLT: 2.7 Mkr2 14.290 1 GHz -24.75 dBm Center Freq 10.0150000 GHz 16 GHz 90 GHz 1 -24.75 dBm 10.0150000 GHz 17 GHz 10 GHz 1 -24.75 dBm 10.0150000 GHz 10 GHz 1 0 0.000000 MHz 10,5 0 0 0.000000 GHz 10,5 0 0 0.000000 GHz 10,5 0 0 0.000000 GHz 10,0 2 0.000000 GHz 0.000000 GHz 11,0 10,0 0 0 0.000000 GHz |
| UL: 19480 \R Date: 08/19/2019 \ CLT: 2.7 Mkr2 13.839 1 GHz Peak bg 0 10 10 10 10 10 10 10 10 10 | Freq 90 GHz UL: 19480 \knows Date: 08/19/2019 \knows CLT: 2.7 Mkr2 14.290 1 GHz Center Freq 10.0150000 GHz 90 GHz • |
| UL: 19480 \R Date: 08/19/2019 \ CLT: 2.7 Mkr2 13.839 1 GHz Ref 40 dBm •Atten 40 dB -24.07 dBm 10.01560 10 dB/ 0 dF -24.07 dBm 200 10 dB/ 0 dF -24.07 dBm 200 10 dB/ 0 dB/ | Freq 90 GHz UL: 19480 \R Date: 08/19/2019 \CLT: 2.7 Mkr2 14.290 1 GHz Center Freq 10.0150000 GHz Freq 00 MHz Image: Control of the second sec |
| UL: 19480 \R Date: 08/19/2019 \CLT: 2.7 Mkr2 13.839 1 GHz Ref 40 dBm •Atten 40 dB -24.07 dBm 10.01500 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Freq 00 GHz UL: 19480 \R Date: 08/19/2019 \CLT: 2.7 Mkr2 14.290 1 GHz Center Freq 10.0150000 GHz 10 GHz • |
| UL: 19480 \R Date: 08/19/2019 \ CLT: 2.7 Mkr2 13.839 1 GHz Ref 40 dBm •Atten 40 dB -24.07 dBm 10.01560 10 dB/ 04 d | Freq 90 GHz UL: 19480 \R Date: 08/19/2019 \CLT: 2.7 Mkr2 14.290 1 GHz Center Freq -24.75 dBm Center Freq 1.0150000 GHz Freq 90 GHz 0 |
| UL: 19480 \R Date: 08/19/2019 \CLT: 2.7 Mkr2 13.839 1 GHz Ref 40 dBm • Atten 40 dB -24.07 dBm 10.01560 10 dB/ 04 dB | Freq 90 GHz UL: 19480 \R Date: 08/19/2019 \CLT: 2.7 Mkr2 14.290 1 GHz Center Freq -24.75 dBm IFreq 00 MHz 1 -24.75 dBm 10.0150000 GHz 10 MHz 1 1 10.0150000 GHz 10 GHz 1 1 10.0150000 GHz 10.5 1 1 10.000000 GHz 10.5 1 1 1 10.5 1 1 1 11.0 1 1 1 11.0 1 1 1 11.0 1 1 1 11.0 1 1 1 11.0 1 1 1 1 11.0 1 1 1 1 1 11.0 1 1 1 1 1 1 10.00000000000000000000000000000000000 |
| UL: 19480 \R Date: 08/19/2019 \CLT: 2.7 Mkr2 13.839 1 GHz Ref 40 dBm • Atten 40 dB -24.07 dBm 10.01560 10 dB/ 04 dB | Freq 90 GHz UL: 19480 \R Date: 08/19/2019 \CLT: 2.7 Mkr2 14.290 1 GHz Center Freq -24.75 dBm 10 GHz • -24.75 dBm 10.150000 GHz 10 GHz • -24.75 dBm 10.0150000 GHz 10 GHz • • 0.000000 MHz 10.5 • • 0.000000 MHz 06 GHz • • 0.000000 MHz 06 GHz • • 0.000000 MHz 0.5 • • 0.000000 MHz 0.6 GHz • • 0.0000000 MHz 0.6 GHz • • 0.0000000 GHz 1.9.0 • • 0.0000000 MHz 0.6 GHz • • 0.0000000 GHz 0.000000 GHz • • 0.0000000 Hz 1.3.9 • • • • 0.6 GHz • • • • • • • • • • 0.0000000 Hz • • • • • |
| UL: 19480 \R Date: 08/19/2019 \CLT: 2.7 Mkr2 13.839 1 GHz Ref 40 dBm *Atten 40 dB -24.07 dBm 10 10 10 10 10 10 10 10 10 10 | Freq 90 GHz UL: 19480 \R Date: 08/19/2019 \CLT: 2.7 Mkr2 14.290 1 GHz -24.75 dBm Center Freq 10.0150000 GHz Freq 00 GHz 1 -24.75 dBm 10.0150000 GHz 10.0150000 GHz Start Freq 30.0000000 MHz IFreq 0B GHz 1 1 1 1 10.0150000 GHz Step 00 GHz 1 1 1 1 10.0150000 GHz 30.0000000 MHz 10.5 1 1 1 1 1 10.0150000 GHz 30.0000000 GHz 11.0 1 1 1 1 1 1 1 1 1 1 0.0000000 GHz 1.9700000 GHz 1.9700000 GHz 1.9700000 GHz 1.9700000 GHz 1.9700000 GHz 1.9700000 GHz 1.97000000 GHz < |
| UL: 19480 \R Date: 08/19/2019 \CLT: 2.7 Mkr2 13.839 1 GHz Ref 40 dBm • Atten 40 dB -24.07 dBm 10.01560 10 dB/ 04 dB | Freq 90 GHz UL: 19480 \R Date: 08/19/2019 \CLT: 2.7 Mkr2 14.290 1 GHz Center Freq -24.75 dBm 10 GHz • -24.75 dBm 10.150000 GHz 10 GHz • -24.75 dBm 10.0150000 GHz 10 GHz • • 0.000000 MHz 10.5 • • 0.000000 MHz 06 GHz • • 0.000000 MHz 06 GHz • • 0.000000 MHz 0.5 • • 0.000000 MHz 0.6 GHz • • 0.0000000 MHz 0.6 GHz • • 0.0000000 GHz 1.9.0 • • 0.0000000 MHz 0.6 GHz • • 0.0000000 GHz 0.000000 GHz • • 0.0000000 Hz 1.3.9 • • • • 0.6 GHz • • • • • • • • • • 0.0000000 Hz • • • • • |

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8.3.2. GSM 1900

LIMITS

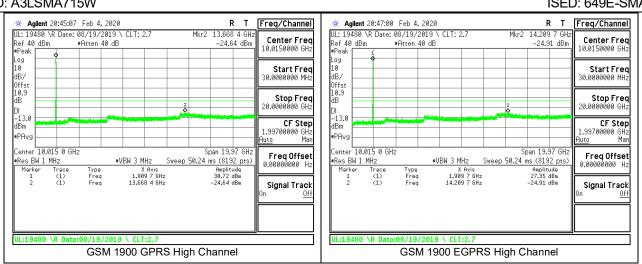
FCC: §24.238

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 $43 + 10 \log (P) dB$.



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8.3.3. WCDMA BAND 5

LIMITS

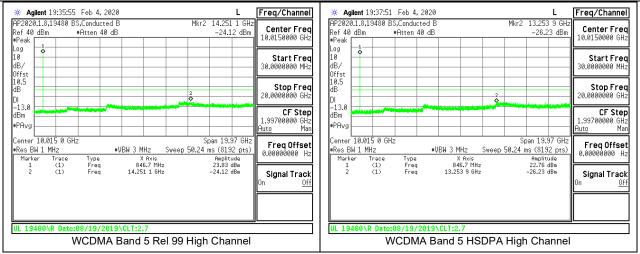
FCC: §22.917

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.



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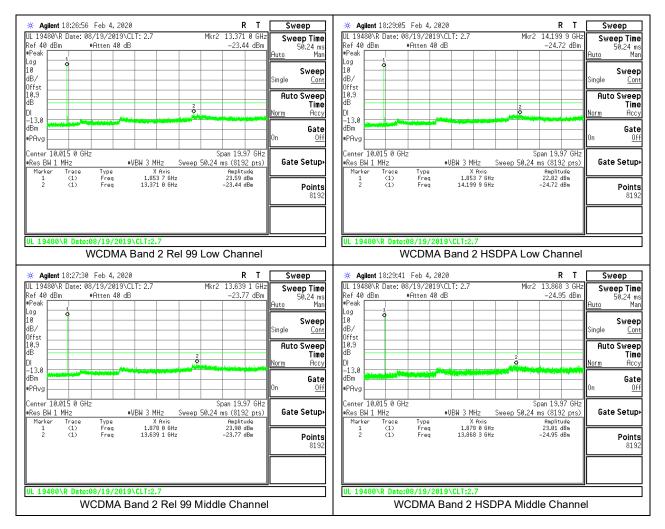
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8.3.4. WCDMA BAND 2

LIMITS

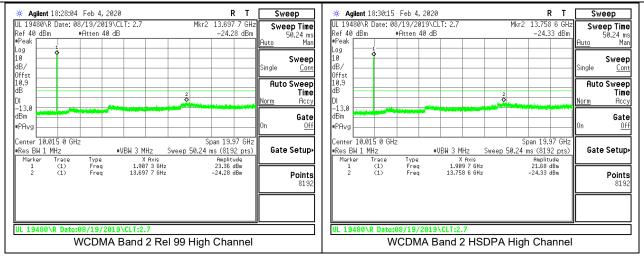
FCC: §24.238

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 $43 + 10 \log (P) dB$.



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