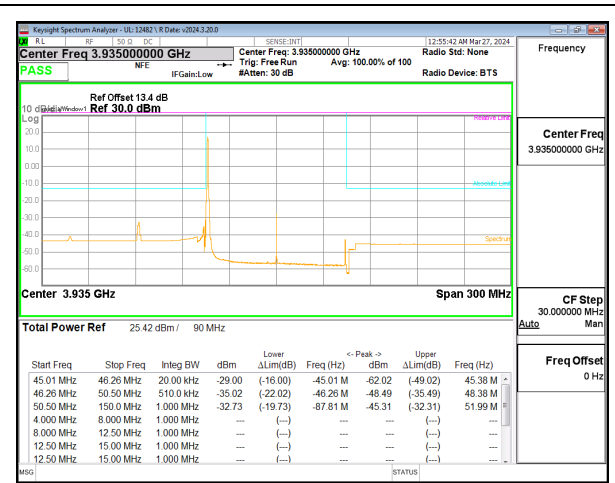
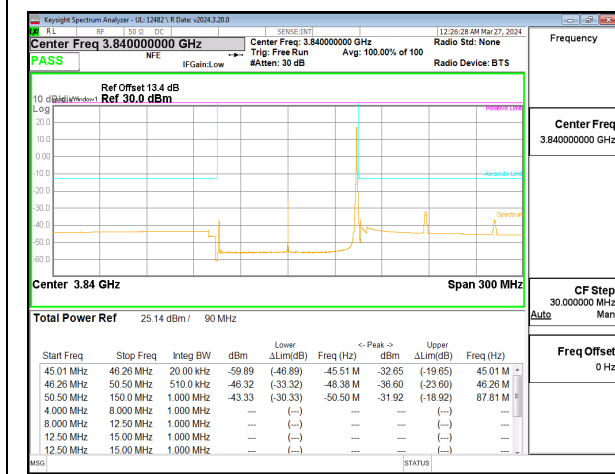


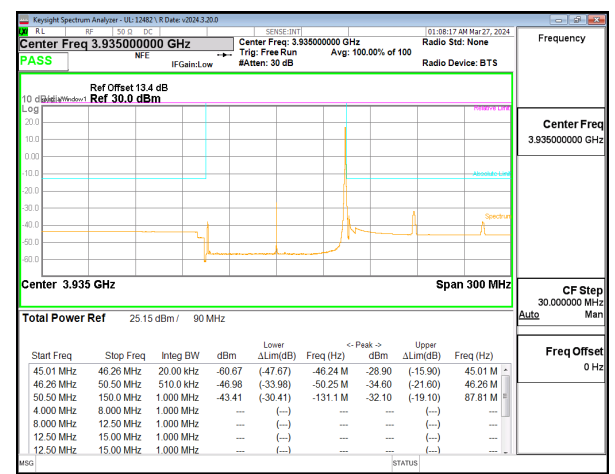
5G NR n77 90MHz BPSK Middle Channel RB1-0



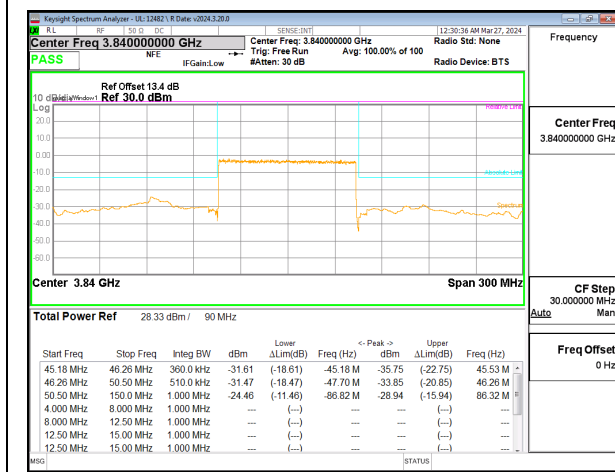
5G NR n77 90MHz BPSK High Channel RB1-0



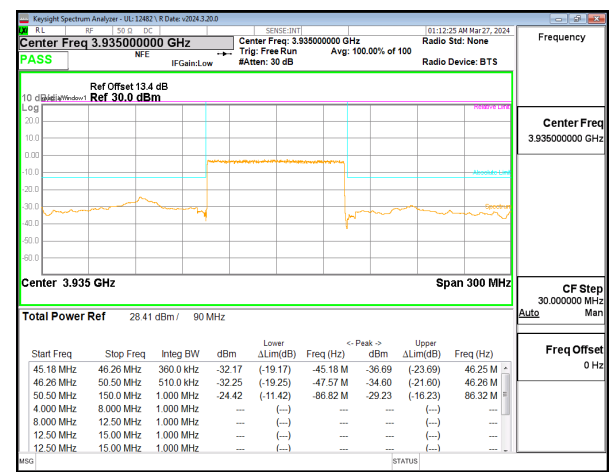
5G NR n77 90MHz BPSK Middle Channel RB1-244



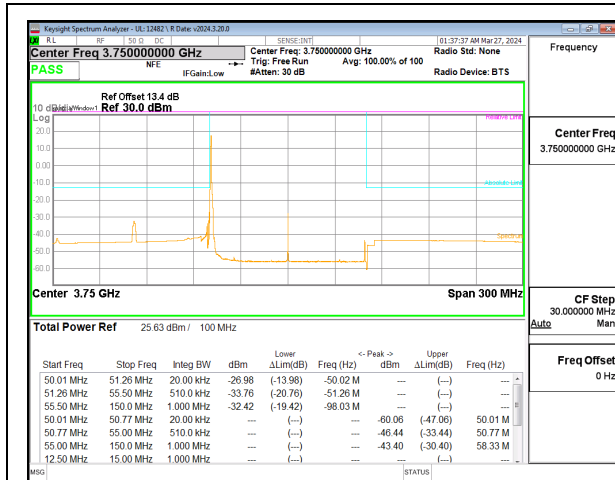
5G NR n77 90MHz BPSK High Channel RB1-244



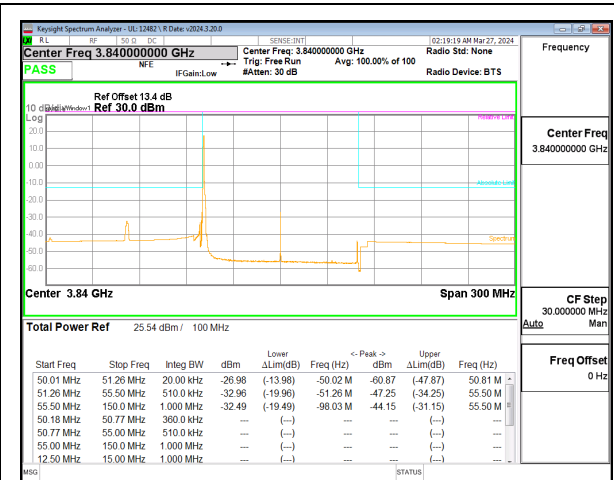
5G NR n77 90MHz BPSK Middle Channel RB243-0



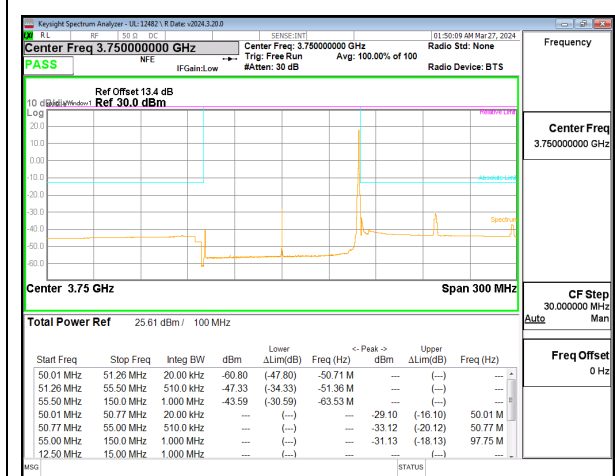
5G NR n77 90MHz BPSK High Channel RB243-0



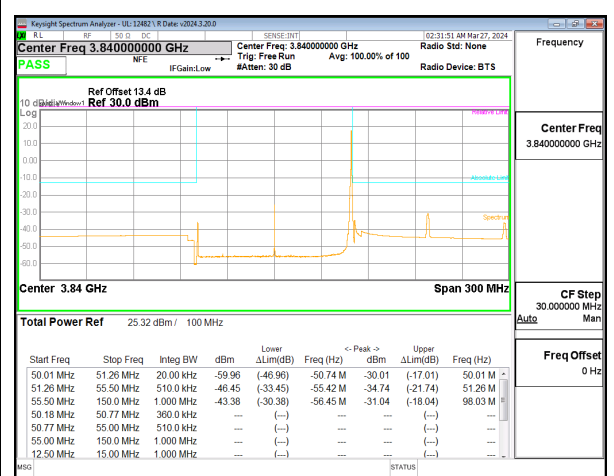
5G NR n77 100MHz BPSK Low Channel RB1-0



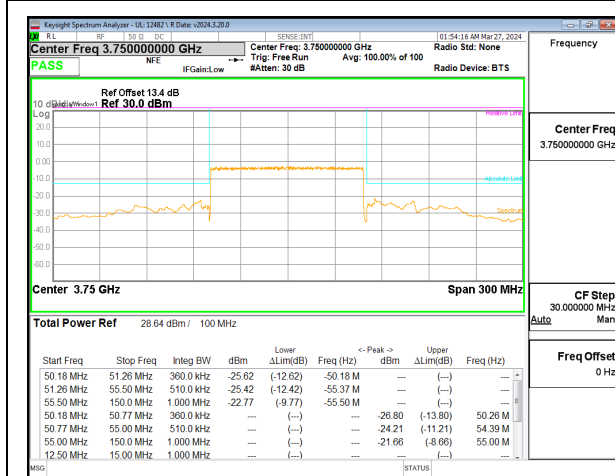
5G NR n77 100MHz BPSK Mid Channel RB1-0



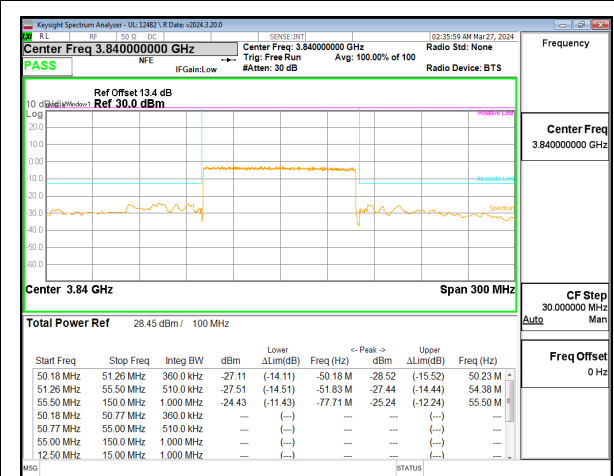
5G NR n77 100MHz BPSK Low Channel RB1-272



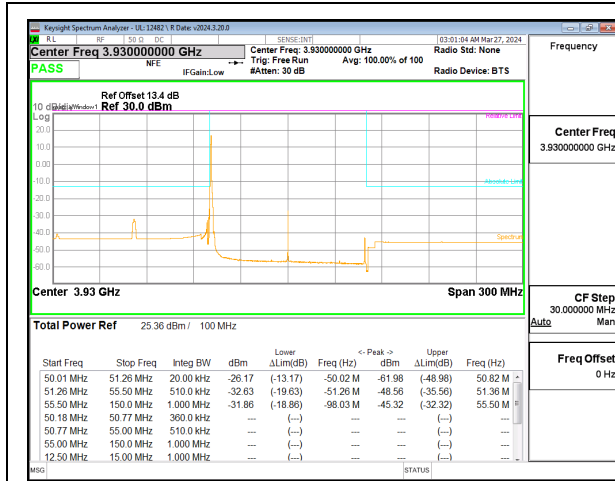
5G NR n77 100MHz BPSK Mid Channel RB1-272



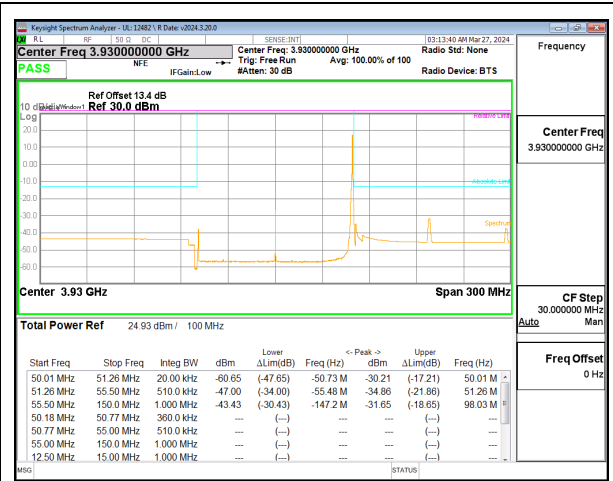
5G NR n77 100MHz BPSK Low Channel RB270-0



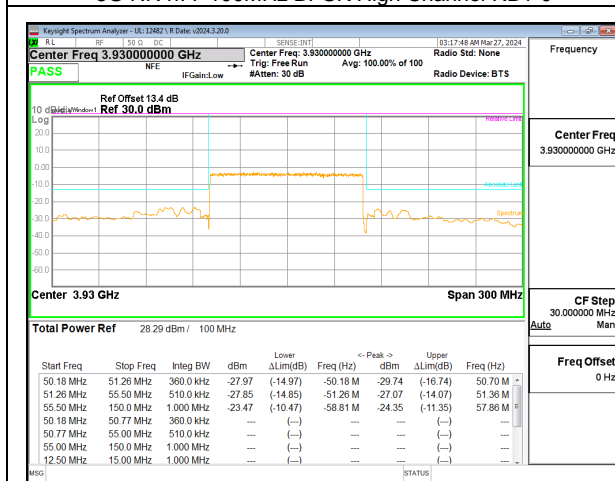
5G NR n77 100MHz BPSK Mid Channel RB270-0



5G NR n77 100MHz BPSK High Channel RB1-0



5G NR n77 100MHz BPSK High Channel RB1-272



5G NR n77 100MHz BPSK High Channel RB270-0

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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

QPSK with 1RB is the highest power and PSD to all bandwidth. 1RB has the same frequency and power to all bandwidth. Therefore, QPSK with 1RB and wider bandwidths results are reported as worst case for LTE bands.

BPSK with 1RB is the highest power and PSD to all bandwidth. 1RB has the same frequency and power to all bandwidth. Therefore, BPSK with 1RB and wider bandwidths results are reported as worst case for 5G NRs.

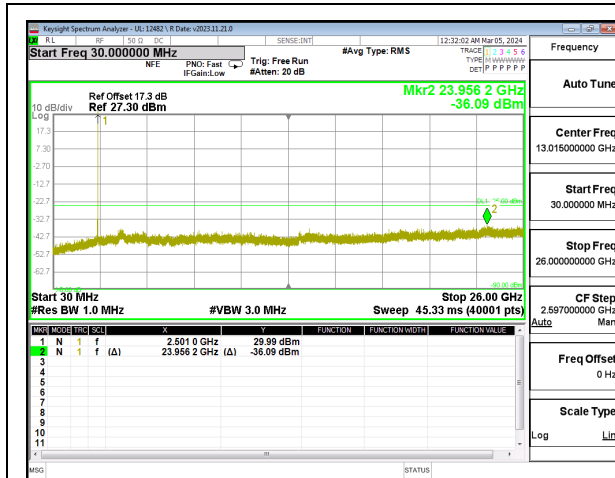
9.3.1. LTE BAND 7 AND 5G NR n7

LIMITS

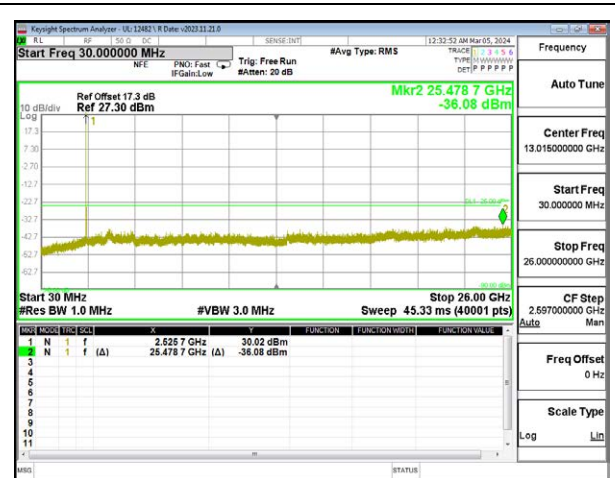
FCC: §27.53 (m)

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

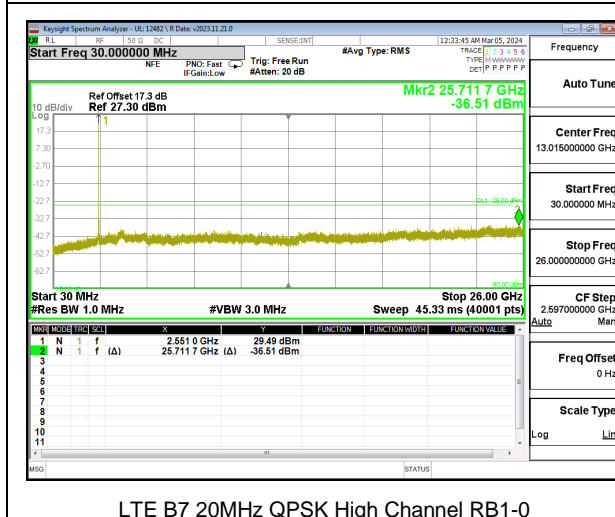
LTE BAND 7



LTE B7 20MHz QPSK Low Channel RB1-0



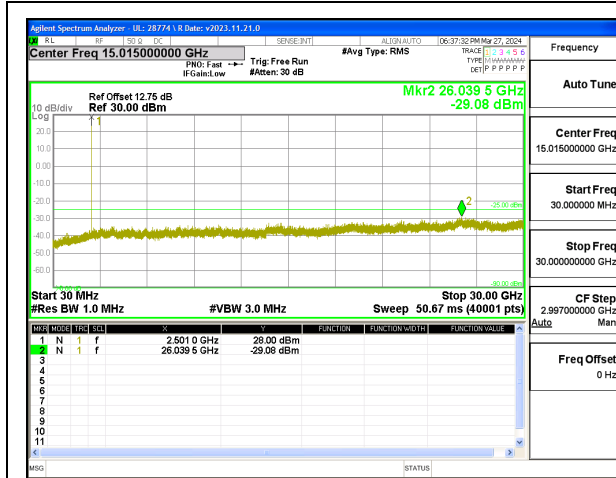
LTE B7 20MHz QPSK Middle Channel RB1-0



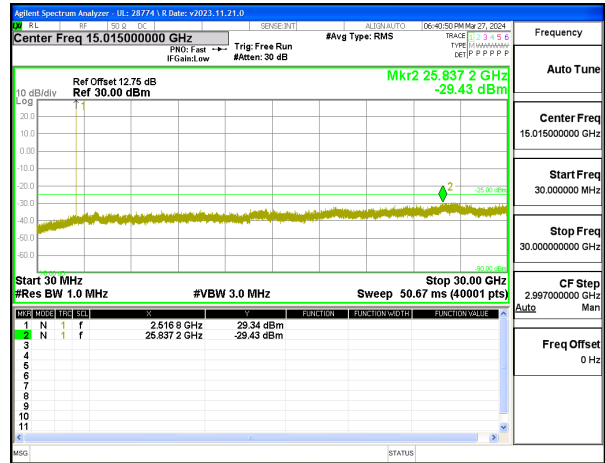
LTE B7 20MHz QPSK High Channel RB1-0

Intentionally Blank

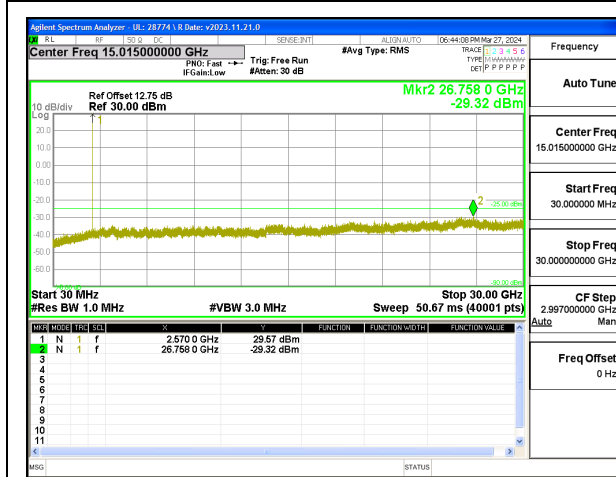
5G NR n7



5G NR n7 40MHz BPSK Low Channel RB1-0



5G NR n7 40MHz BPSK Middle Channel RB1-1



5G NR n7 40MHz BPSK High Channel RB1-215

Intentionally Blank

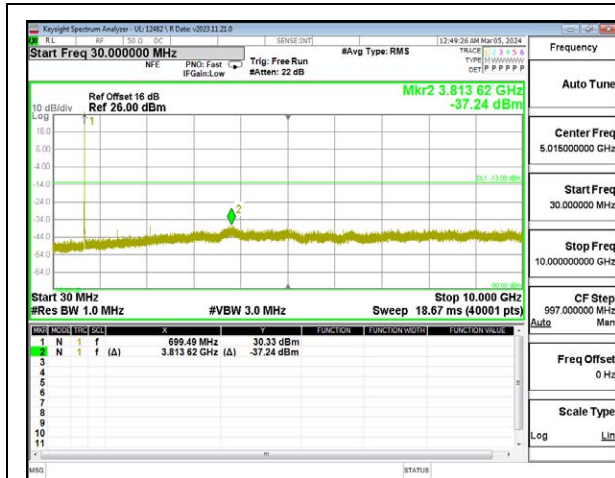
9.3.2. LTE BAND 12 AND 5G NR n12

LIMITS

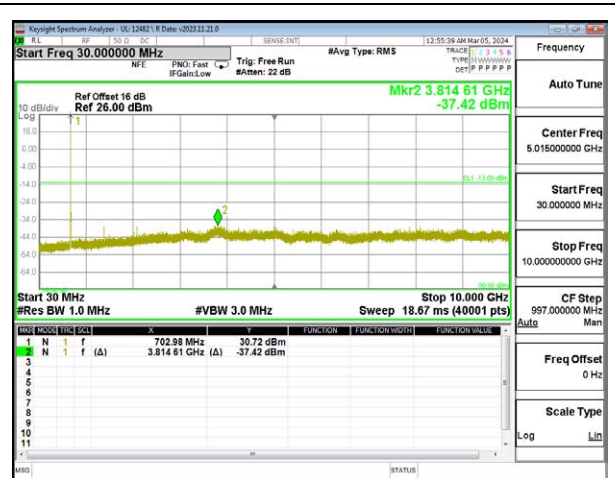
FCC: §27.53 (g)

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

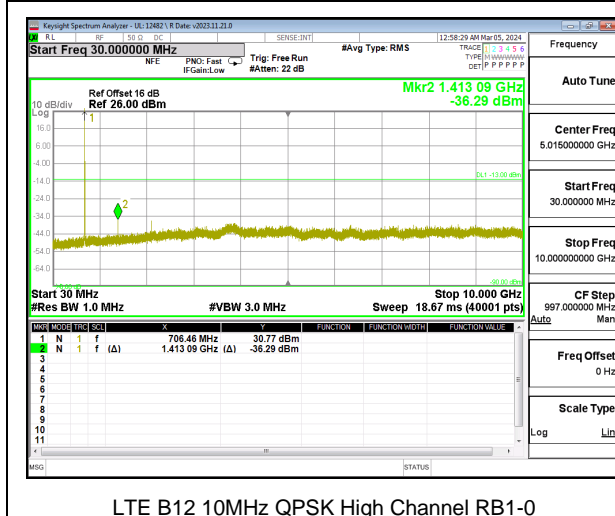
LTE BAND 12



LTE B12 10MHz QPSK Low Channel RB1-0



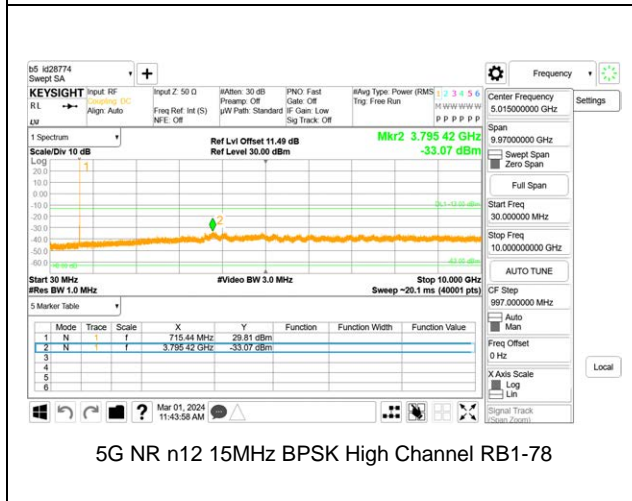
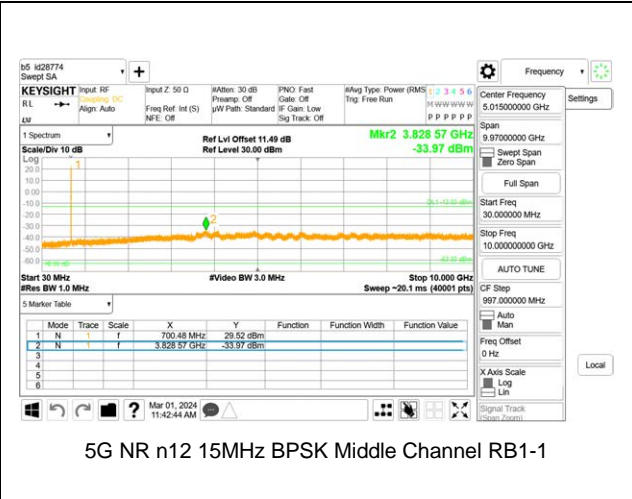
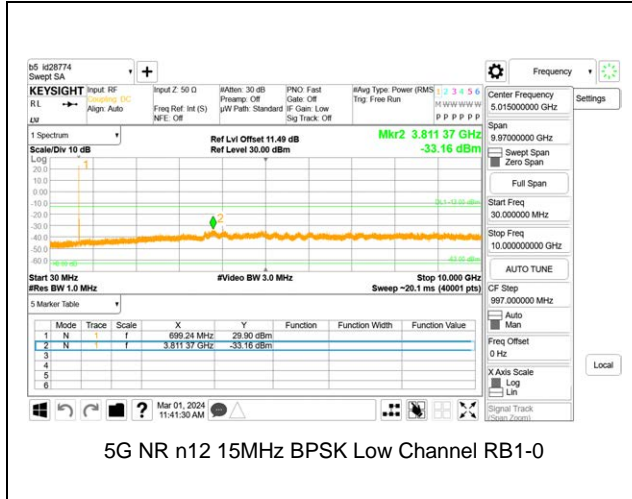
LTE B12 10MHz QPSK Middle Channel RB1-0



LTE B12 10MHz QPSK High Channel RB1-0

Intentionally Blank

5G NR n12



Intentionally Blank

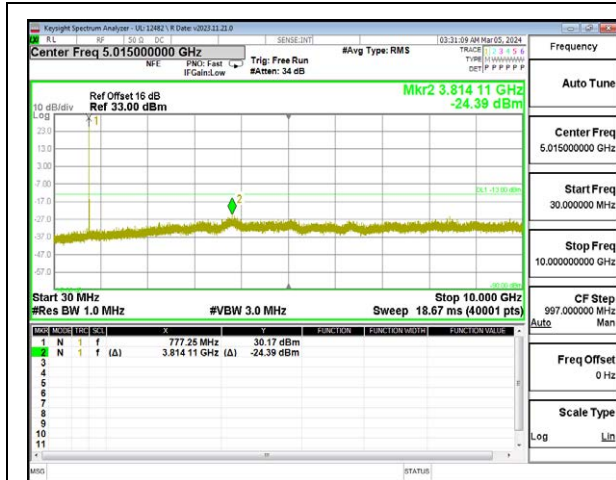
9.3.3. LTE BAND 13

LIMITS

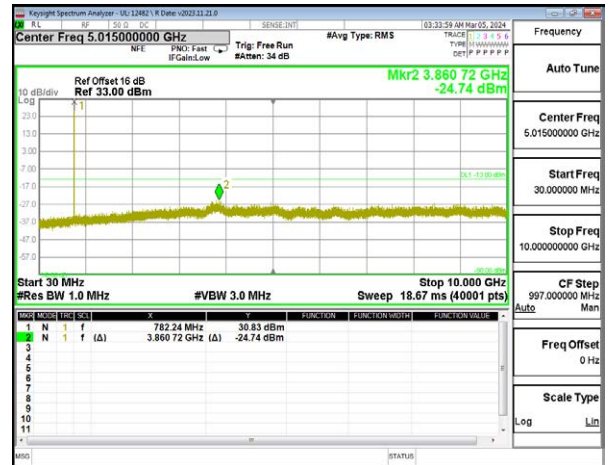
FCC: §27.53 (c), (f)

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.

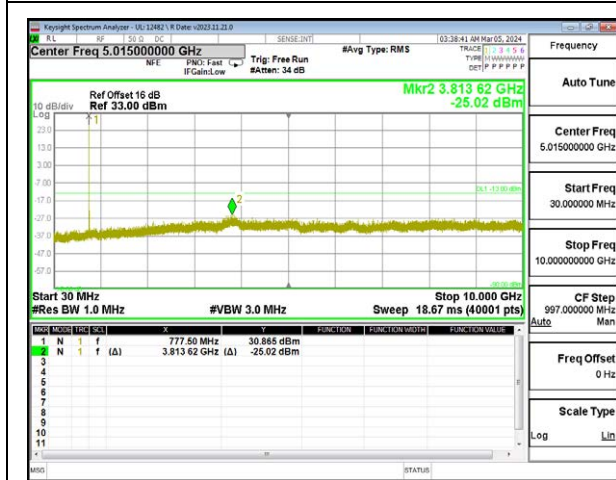
Note: Radiated data in section 10.1.3 confirms a compliance for the emissions in GPS 1559-1610 MHz band were wideband emissions therefore the -40 dBm/MHz limit was used.



LTE B13 5MHz QPSK Low Channel RB1-0



LTE B13 5MHz QPSK High Channel RB1-0



LTE B13 10MHz QPSK Middle Channel RB1-0

Note: Radiated data in section 10.1.3 confirms a compliance with narrowband limits for GPS1559-1610 MHz band.

9.3.4. LTE BAND 14 AND 5G NR n14

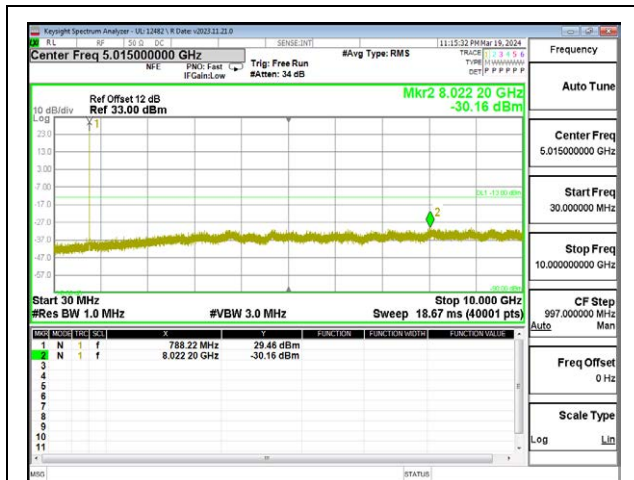
LIMITS

FCC: §90.543 (e), (f)

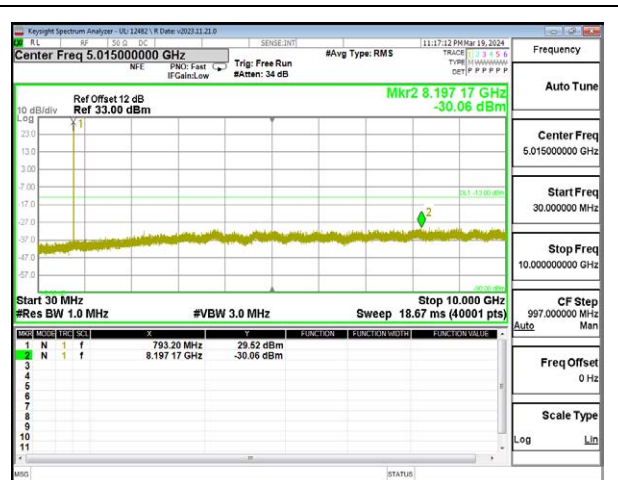
The minimum permissible attenuation level of any spurious emissions is $43 + 10 \log (P)$ dB where transmitting power (P) in Watts. The band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less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

Note: Radiated data in section 10.1.4 confirms a compliance for the emissions in GPS 1559-1610 MHz band were wideband emissions therefore the -40 dBm/MHz limit was used.

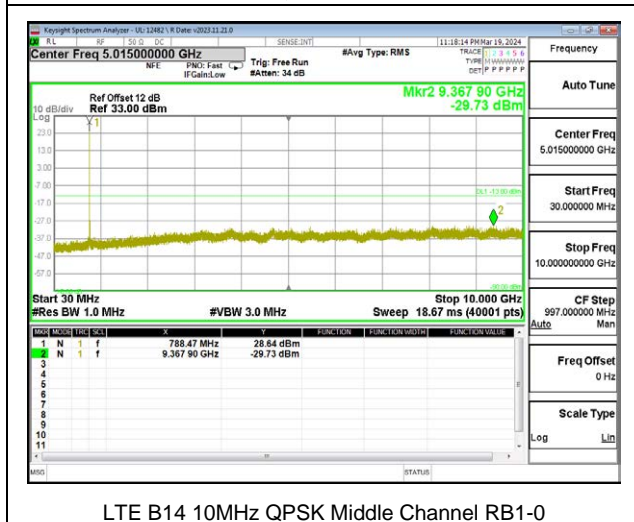
LTE BAND 14



LTE B14 5MHz QPSK Low Channel RB1-0



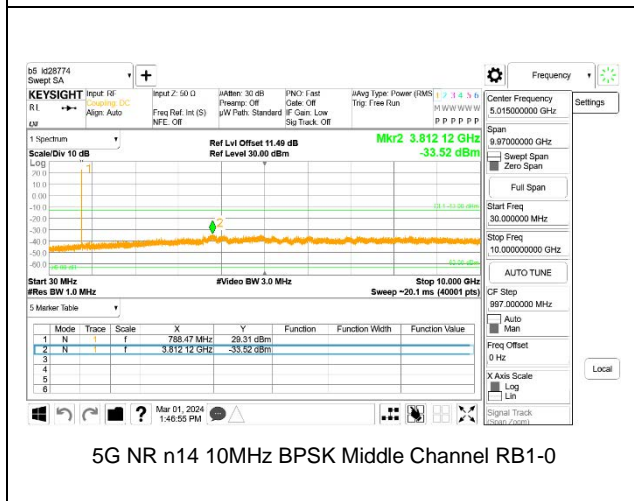
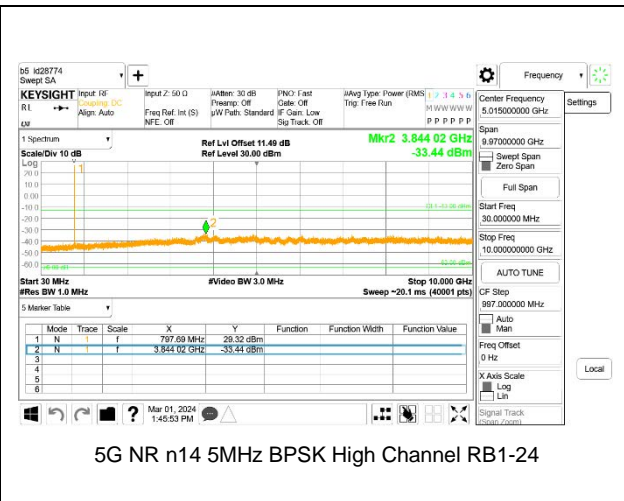
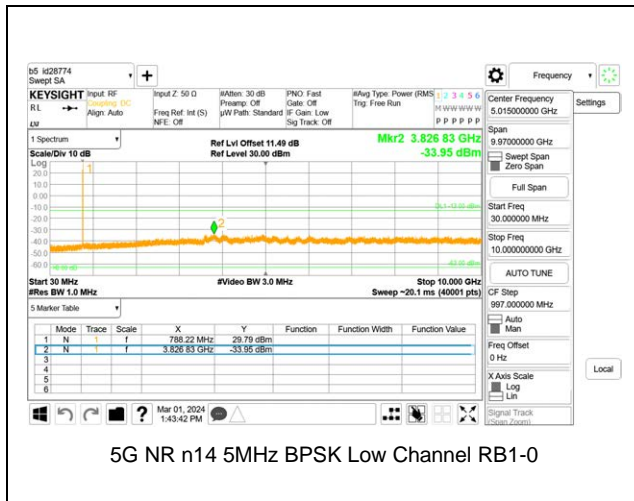
LTE B14 5MHz QPSK High Channel RB1-0



LTE B14 10MHz QPSK Middle Channel RB1-0

Note: Radiated data in section 10.1.4 confirms a compliance with narrowband limits for GPS1559-1610 MHz band.

5G NR n14



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9.3.5. LTE BAND 17

LIMITS

FCC: §27.53 (g)

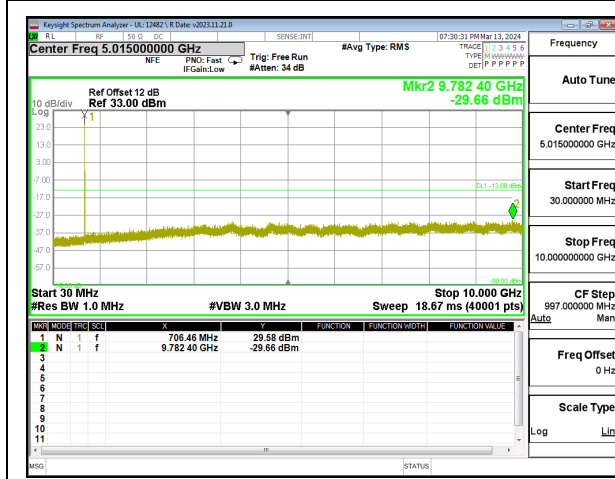
The minimum permissible attenuation level of any spurious emissions is $43 + 10 \log(P)$ dB where transmitting power (P) in Watts.



LTE B17 10MHz QPSK Low Channel RB1-0



LTE B17 10MHz QPSK Middle Channel RB1-0



LTE B17 10MHz QPSK High Channel RB1-0

Intentionally Blank

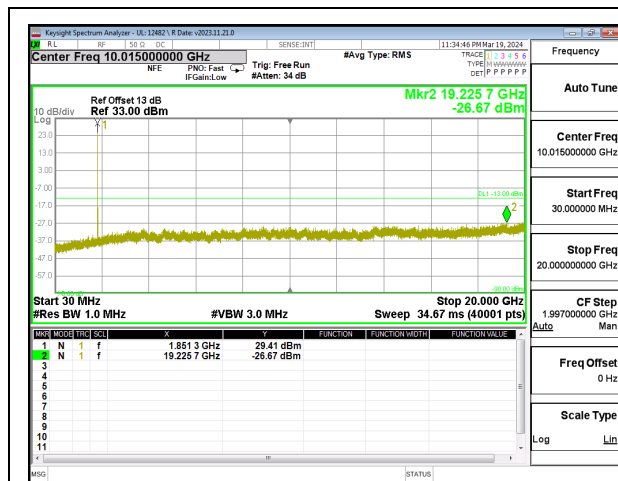
9.3.6. LTE BAND 25 AND 5G NR n25

LIMITS

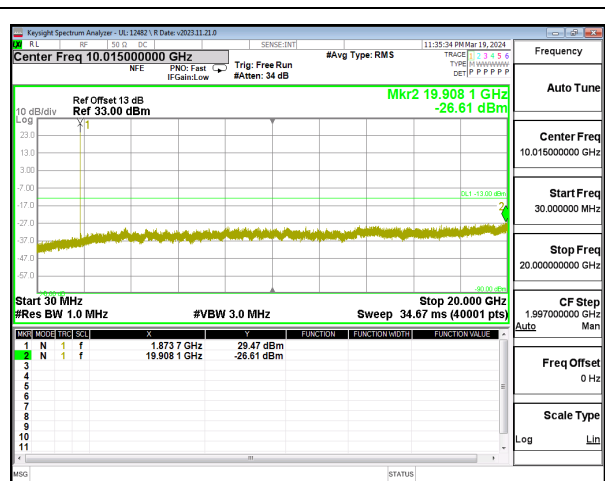
FCC: §24.238 (a)

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

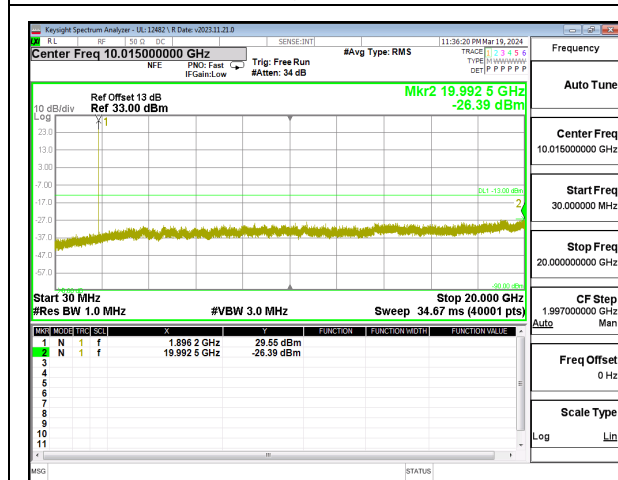
LTE BAND 25



LTE B25 20MHz QPSK Low Channel RB1-0



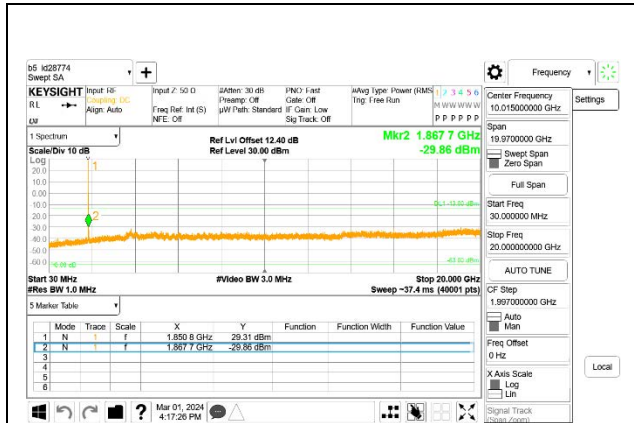
LTE B25 20MHz QPSK Middle Channel RB1-0



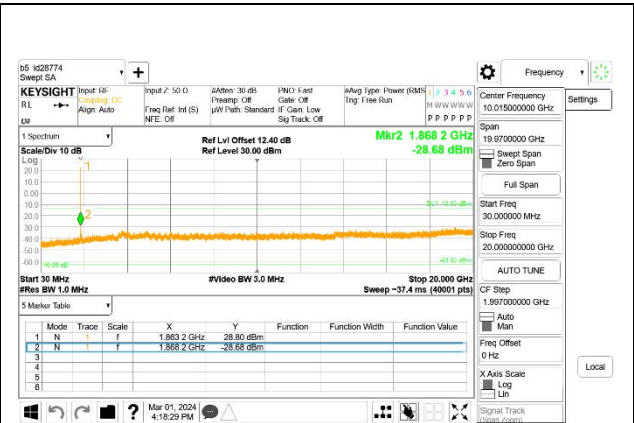
LTE B25 20MHz QPSK High Channel RB1-0

Intentionally Blank

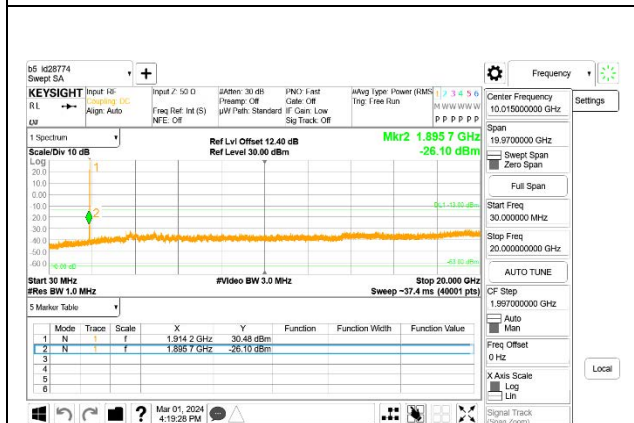
5G NR n25



5G NR n25 40MHz BPSK Low Channel RB1-0



5G NR n25 40MHz BPSK Middle Channel RB1-1



5G NR n25 40MHz BPSK High Channel RB1-215

Intentionally Blank

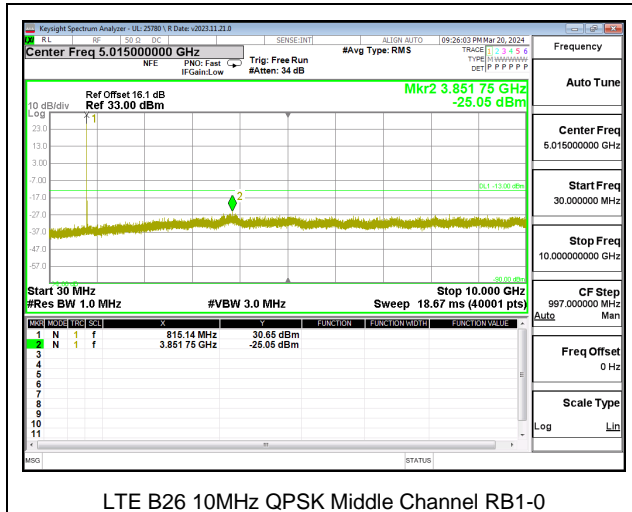
9.3.7. LTE BAND 26 AND 5G NR n26(FCC PART 90S)

LIMITS

FCC: §90.691

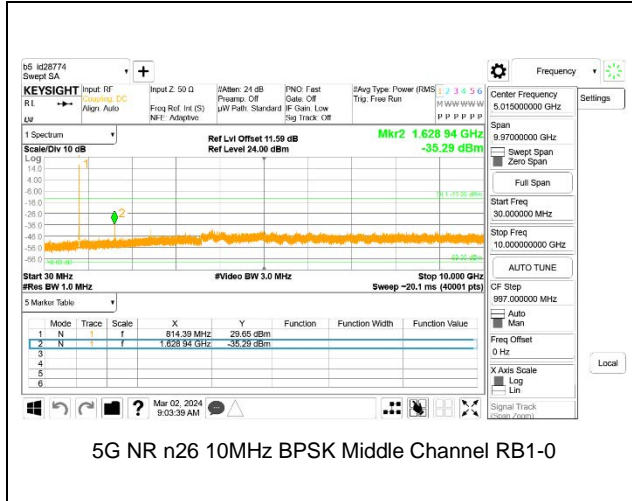
The minimum permissible attenuation level of any spurious emissions is $43 + 10 \log (P)$ dB where transmitting power (P) in Watts.

LTE BAND 26



Intentionally Blank

5G NR n26



Intentionally Blank

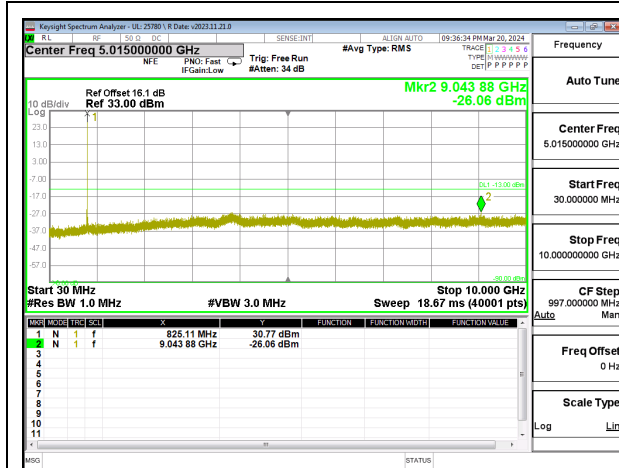
9.3.8. LTE BAND 26 AND 5G NR n26 (FCC PART 22)

LIMITS

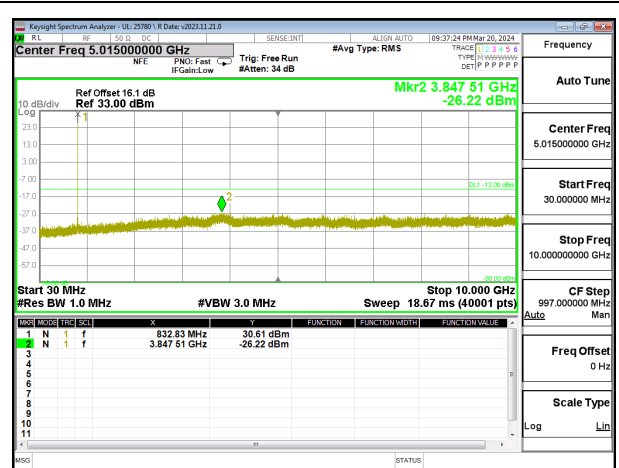
FCC: §22.917 (a)

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

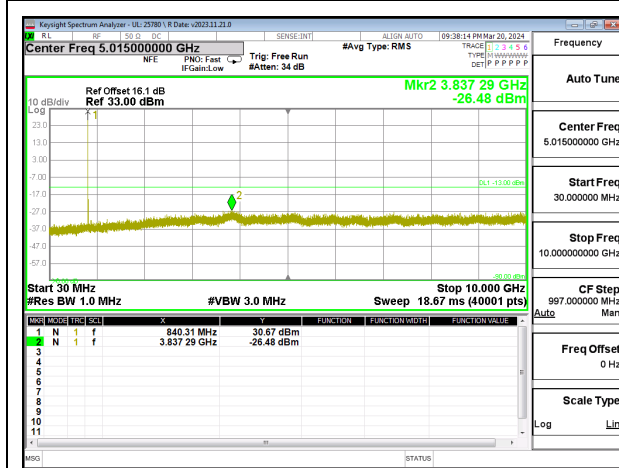
LTE BAND 26



LTE B26 10MHz QPSK Low Channel RB1-0



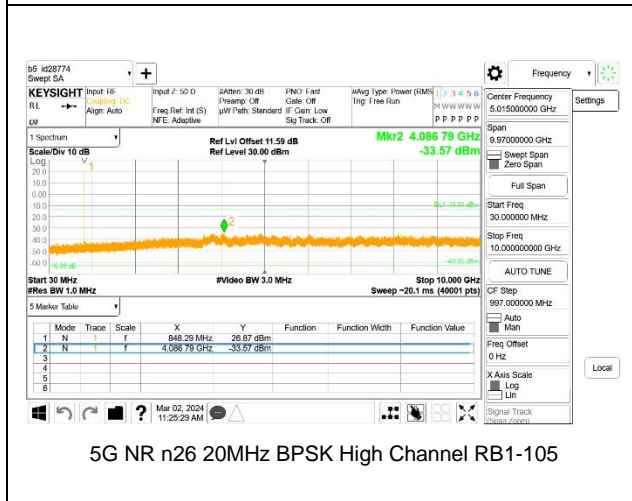
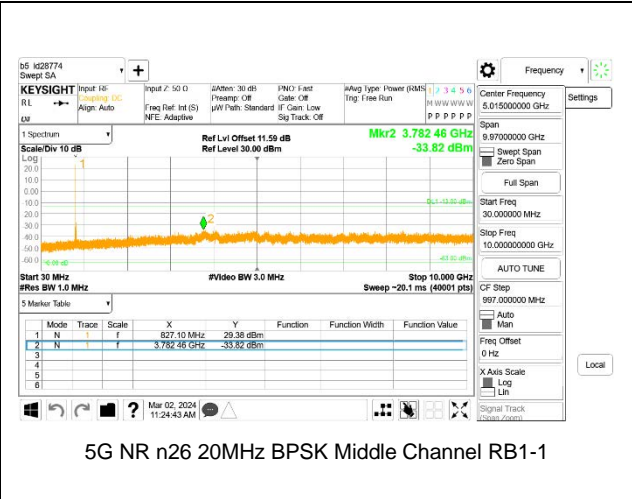
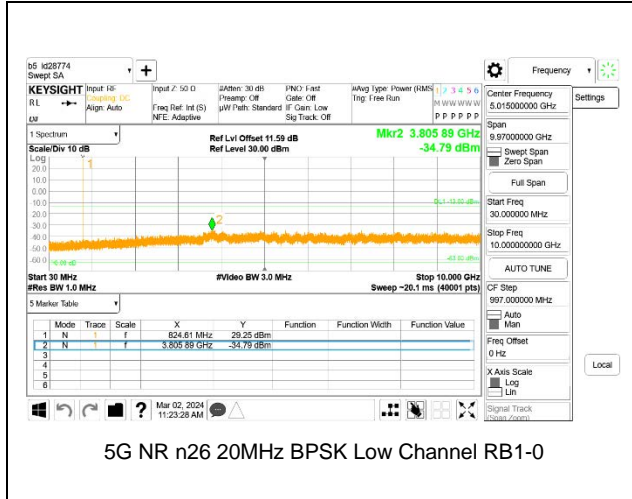
LTE B26 10MHz QPSK Middle Channel RB1-0



LTE B26 10MHz QPSK Mid Channel RB1-0

Intentionally Blank

5G NR n26



Intentionally Blank

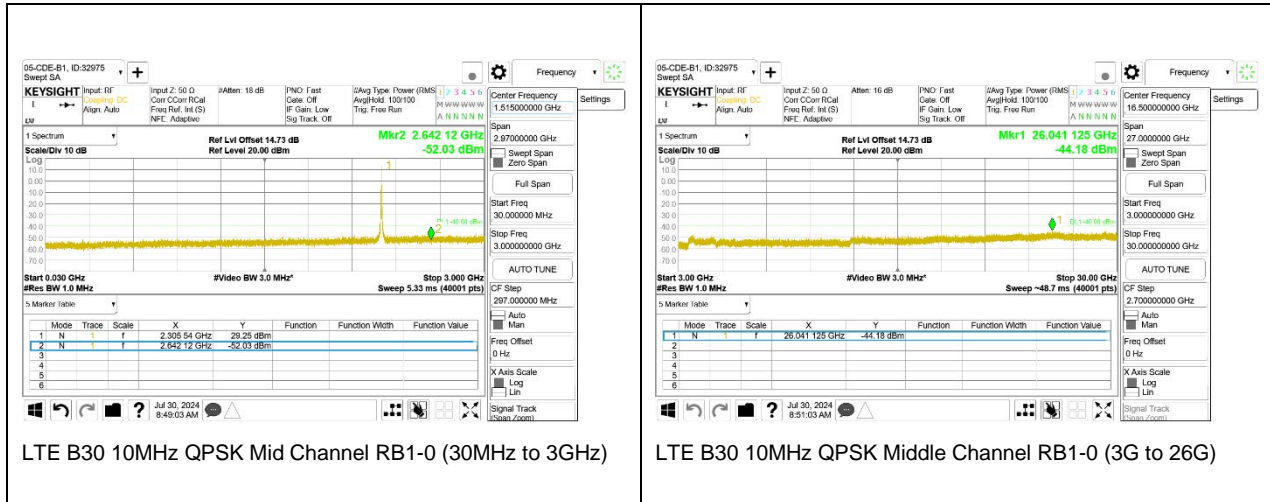
9.3.9. LTE BAND 30 AND 5G NR n30

LIMITS

FCC: §27.53 (a)

The minimum permissible attenuation level of any spurious emissions is $70 + 10 \log(P)$ dB where transmitting power (P) in Watts.

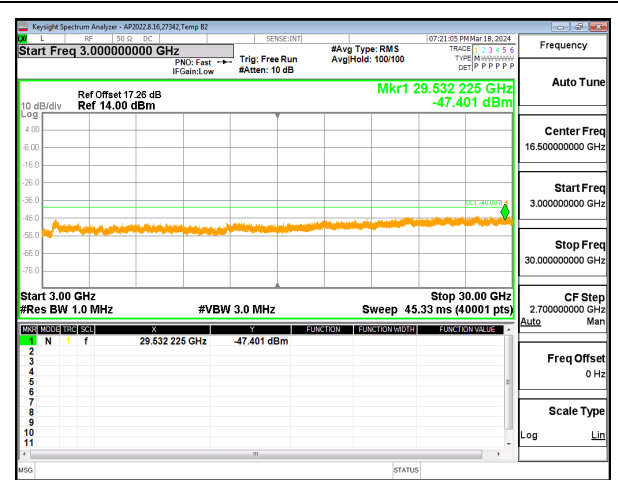
LTE BAND 30



5G NR n30



5G NR n30 10MHz BPSK Middle Channel RB1-0 (30MHz to 3GHz)



5G NR n30 10MHz BPSK Middle Channel RB1-0 (3GHz to 30GHz)

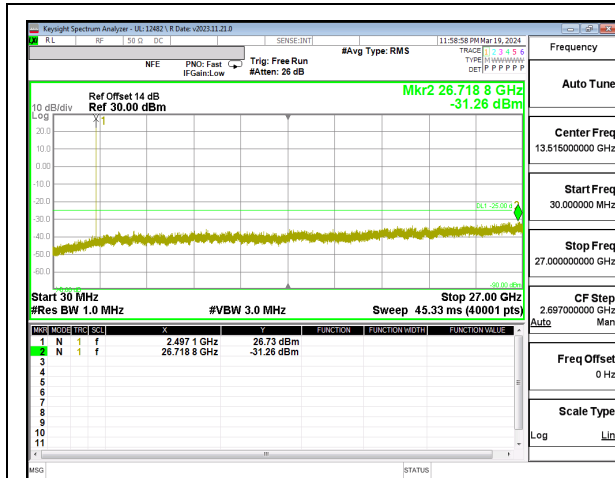
9.3.10. LTE BAND 41 AND 5G NR n41

LIMITS

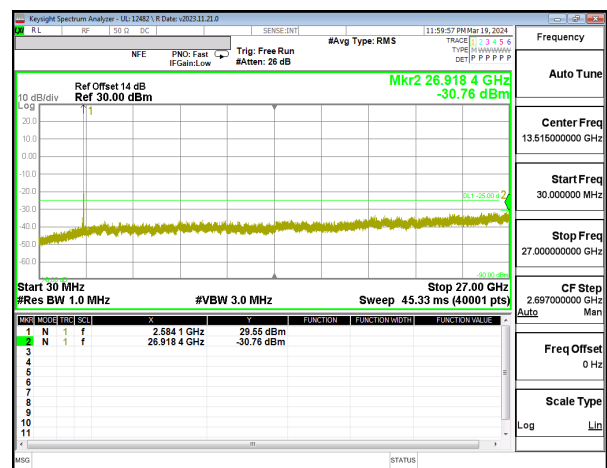
FCC: §27.53 (m)

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

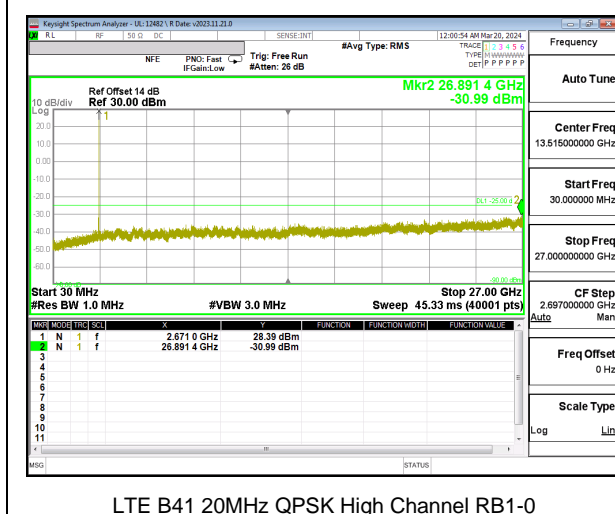
LTE BAND 41



LTE B41 20MHz QPSK Low Channel RB1-0



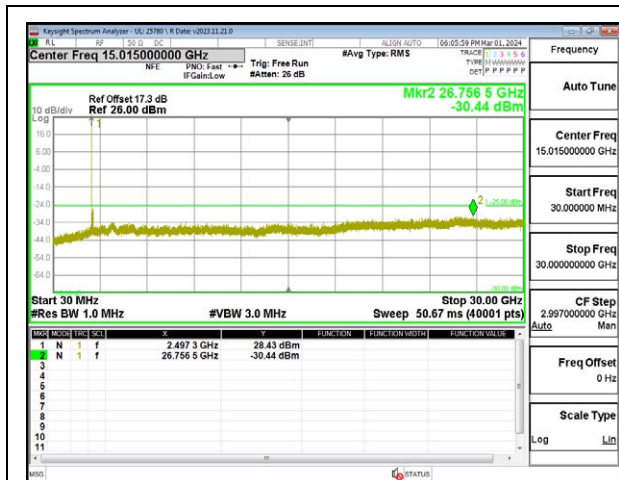
LTE B41 20MHz QPSK Middle Channel RB1-0



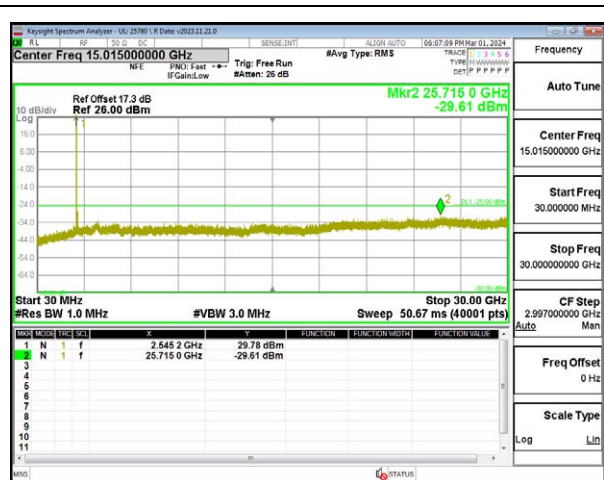
LTE B41 20MHz QPSK High Channel RB1-0

Intentionally Blank

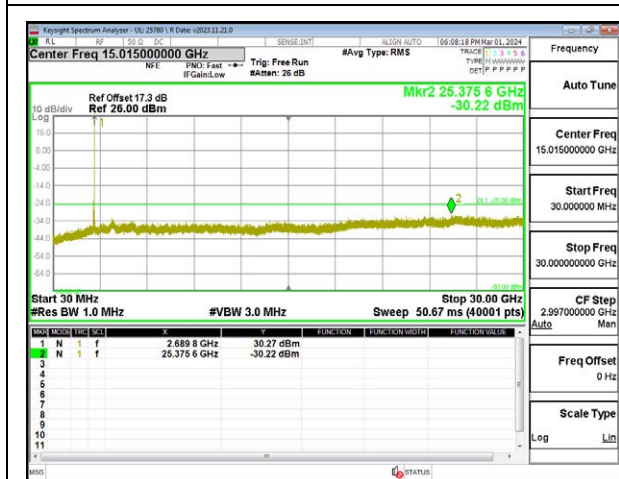
5G NR n41



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



5G NR n41 100MHz BPSK Middle Channel RB1-1



5G NR n41 100MHz BPSK High Channel RB1-272

Intentionally Blank

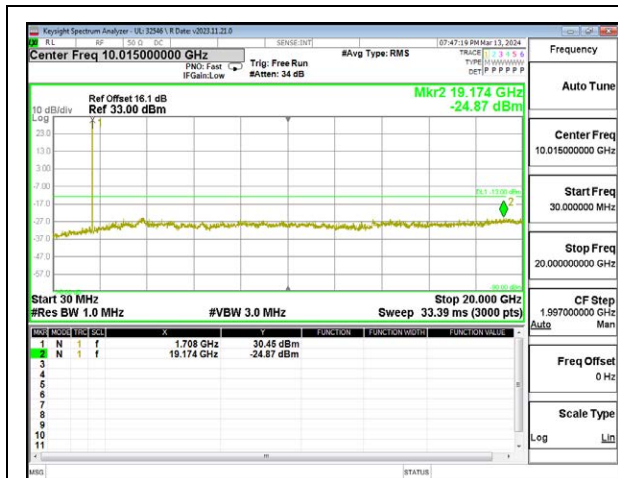
9.3.11. LTE BAND 66 AND 5G NR n66

LIMITS

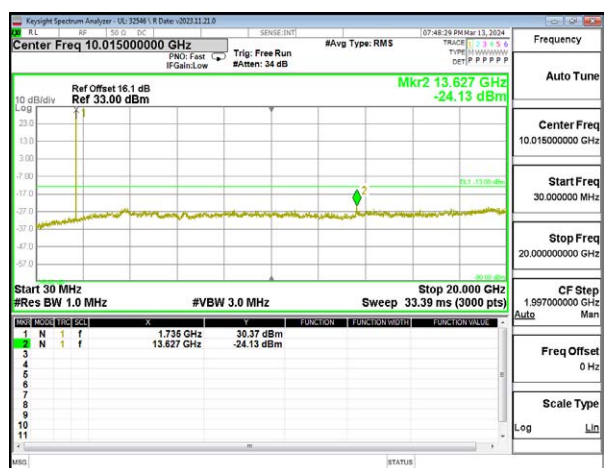
FCC: §27.53 (h)

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

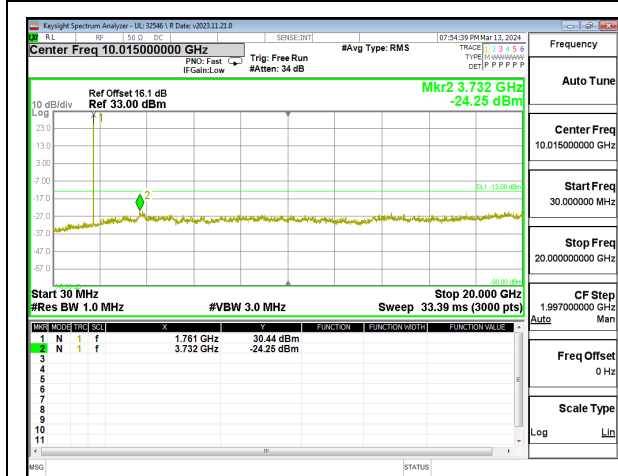
LTE BAND 66



LTE B66 20MHz QPSK Low Channel RB1-0



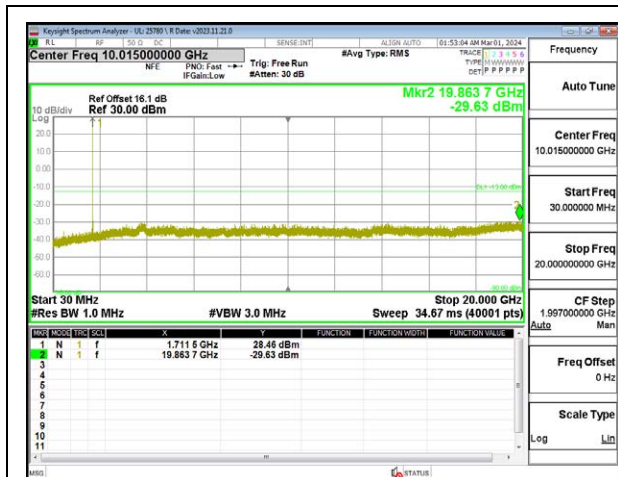
LTE B66 20MHz QPSK Middle Channel RB1-0



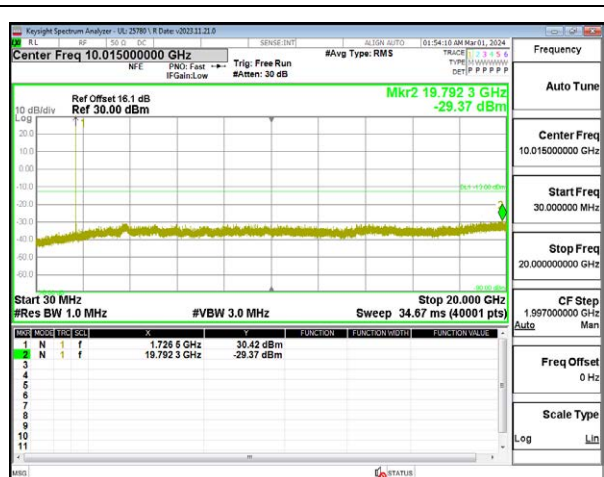
LTE B66 20MHz QPSK High Channel RB1-0

Intentionally Blank

5G NR n66



5G NR n66 40MHz BPSK Low Channel RB1-0



5G NR n66 40MHz BPSK Middle Channel RB1-1



5G NR n66 40MHz BPSK High Channel RB1-215

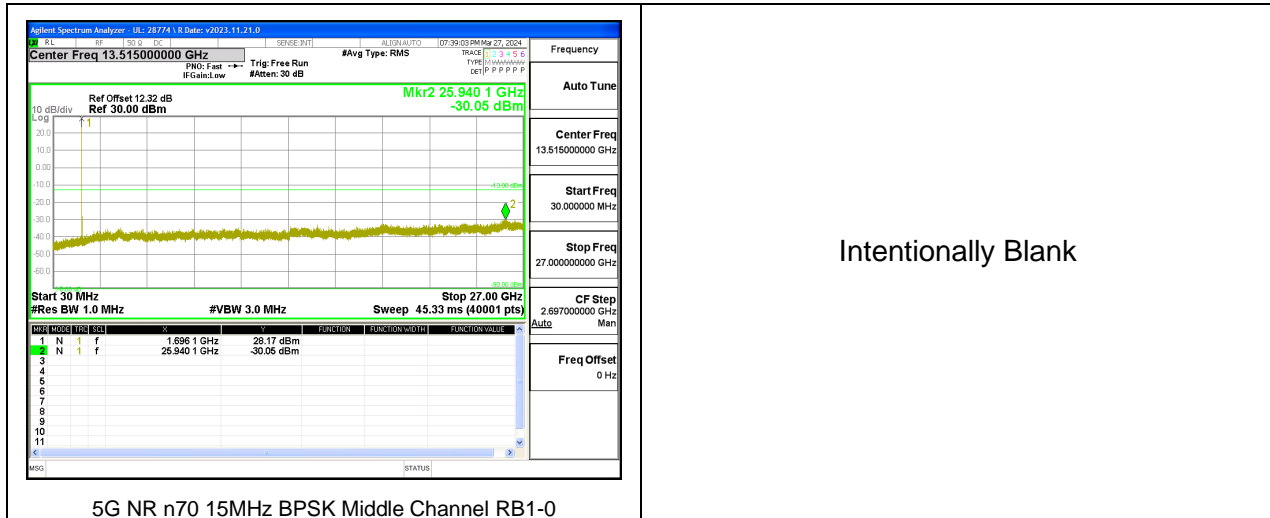
9.3.12. 5G NR n70

LIMITS

FCC: §27.53 (h)

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

5G NR n70



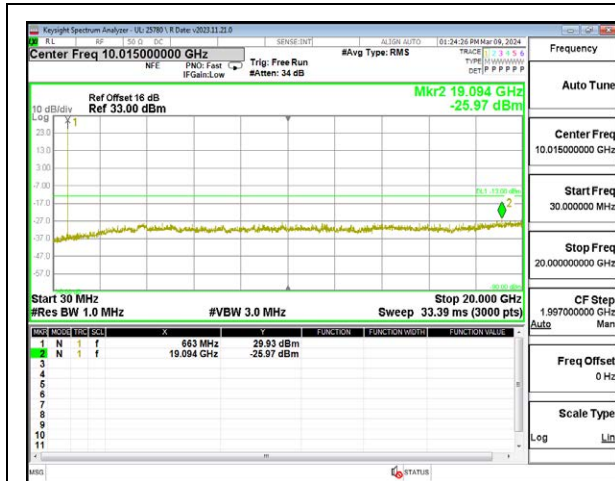
9.3.13. LTE BAND 71 AND 5G NR n71

LIMITS

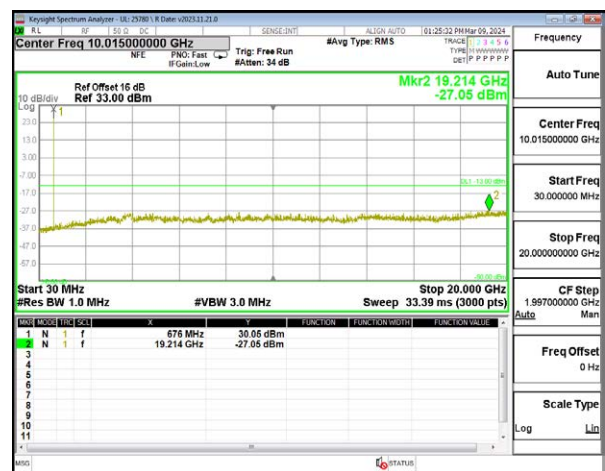
FCC: §27.53 (g)

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

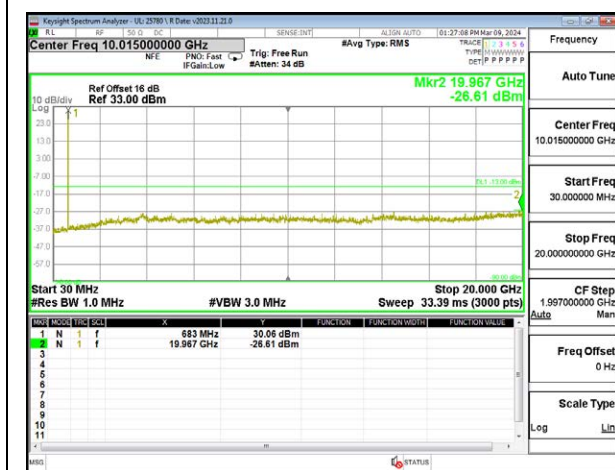
LTE BAND 71



LTE B71 20MHz QPSK Low Channel RB1-0



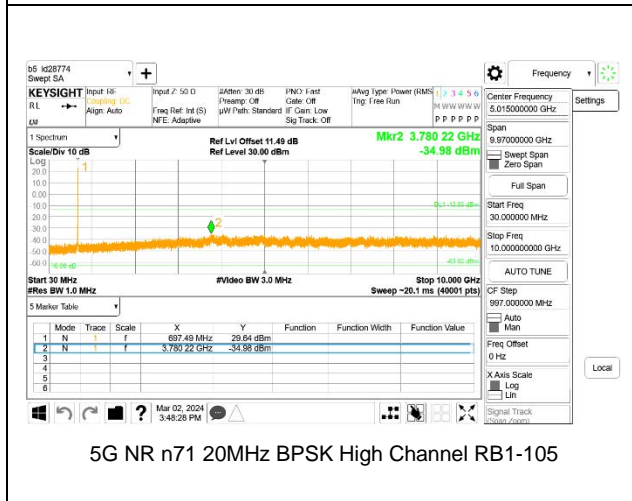
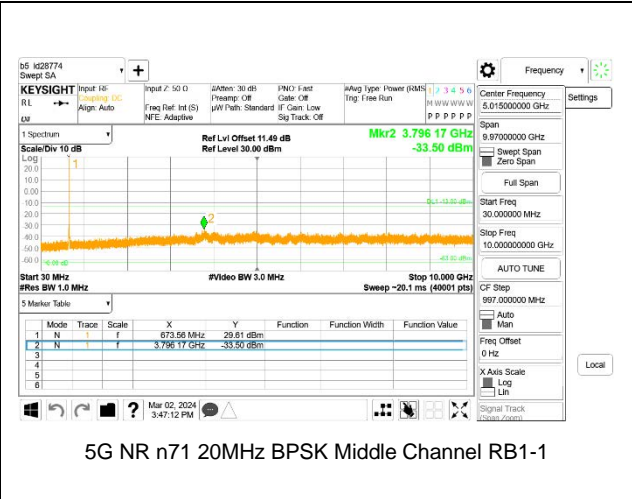
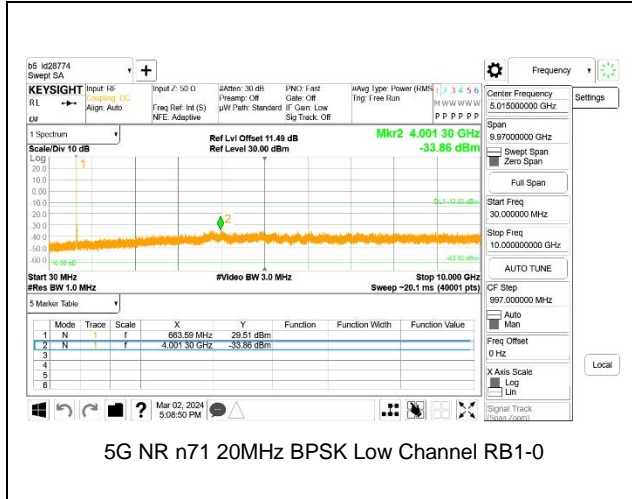
LTE B71 20MHz QPSK Middle Channel RB1-0



LTE B71 20MHz QPSK High Channel RB1-0

Intentionally Blank

5G NR n71



Intentionally Blank

9.3.14. 5G NR n77 (FCC Part 27 3450-3550MHz)

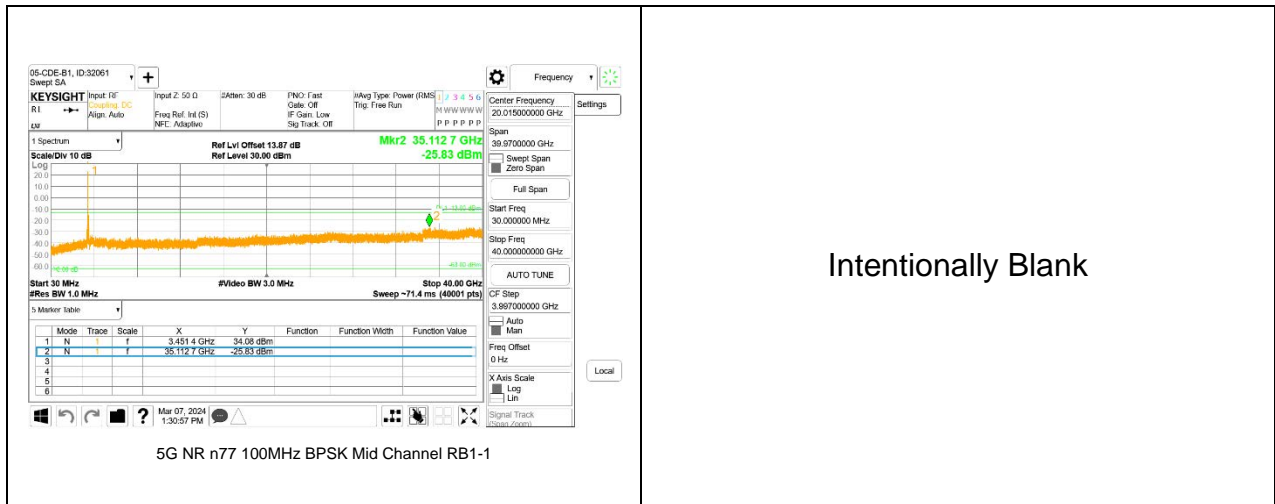
LIMITS

FCC: §27.53

Emission limits

(n) 3.45 GHz Service. The following emission limits apply to stations transmitting in the 3450-3550 MHz band:

(2) For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.



Intentionally Blank

9.3.15. 5G NR n77 (FCC Part 27 3700-3980MHz)

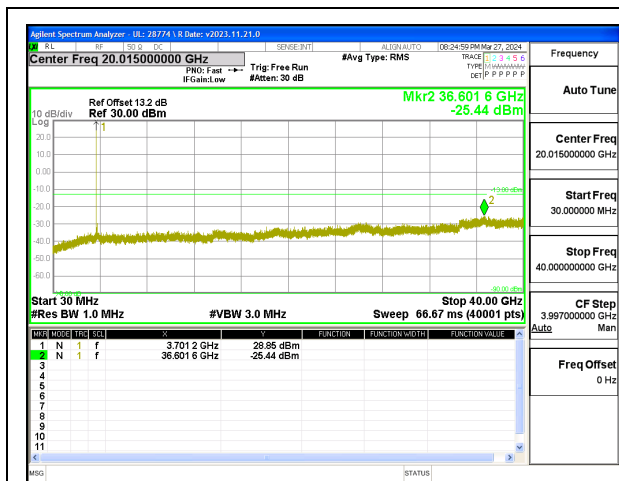
LIMITS

FCC: §27.53

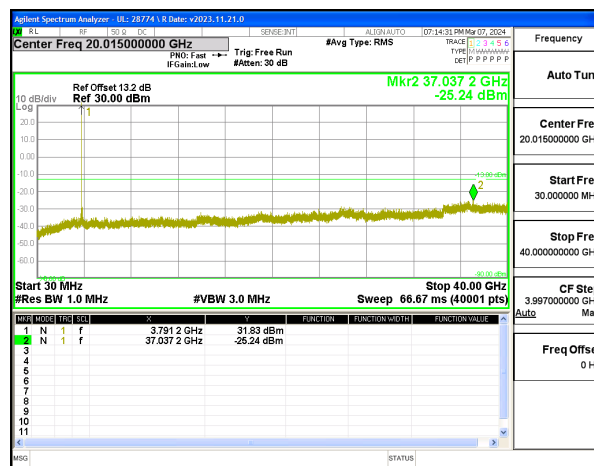
Emission limits

(1) 3.7 GHz Service. The following emission limits apply to stations transmitting in the 3700-3980 MHz band:

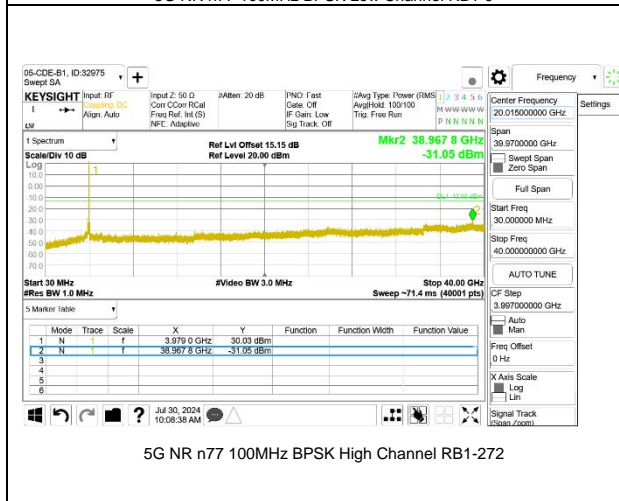
(2) For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.



5G NR n77 100MHz BPSK Low Channel RB1-0



5G NR n77 100MHz BPSK Mid Channel RB1-1



5G NR n77 100MHz BPSK High Channel RB1-272

Intentionally Blank

9.4. FREQUENCY STABILITY

TEST PROCEDURE

Use CMW 500 with Frequency Error measurement capability.

- Temp. = -30°C to +50°C
- Voltage = (85% - 115%)

Low voltage, 3.23VDC, Normal, 3.8VDC and High voltage, 4.37VDC.
End Voltage, 3.2VDC.

Frequency Stability vs Temperature:

The EUT is placed inside a temperature chamber. The temperature is set to 20°C and allowed to stabilize. After sufficient soak time, the transmitting frequency error is measured. The temperature is increased by 10 degrees, allowed to stabilize and soak, and then the measurement is repeated. This is repeated until +50°C is reached.

Frequency Stability vs Voltage:

The peak frequency error is recorded (worst-case).

RESULTS

See the following pages.

9.4.1. LTE BAND 7 AND 5G NR n7

LIMITS

FCC: §27.54

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

| | | | |
|-------------------|-------|------------|-----------|
| Test Engineer ID: | 25780 | Test Date: | 3/26/2024 |
|-------------------|-------|------------|-----------|

LTE BAND 7 QPSK (20MHz BANDWIDTH)

| Band | 7 | Frequency Range | | Frequency Error Reading (Hz) | Limit | |
|-----------------|-------------------|------------------------------|-------------------------------|------------------------------|---------------------------|--|
| Condition | | 2500 | 2570 | | Frequency Stability (ppm) | Within Authorized Frequency Block (Hz) |
| Temperature | Voltage | Freq Reading @ Low End (MHz) | Freq Reading @ High End (MHz) | | | |
| Normal (20°C) | Normal | 2501.0617 | 2568.9435 | | | |
| Extreme (50°C) | | 2501.0617 | 2568.9435 | -6.8 | -0.003 | Yes |
| Extreme (40°C) | | 2501.0617 | 2568.9436 | 7.6 | 0.003 | Yes |
| Extreme (30°C) | | 2501.0617 | 2568.9435 | -7.2 | -0.003 | Yes |
| Extreme (10°C) | | 2501.0617 | 2568.9435 | -7.3 | -0.003 | Yes |
| Extreme (0°C) | | 2501.0617 | 2568.9436 | 6.5 | 0.003 | Yes |
| Extreme (-10°C) | | 2501.0617 | 2568.9435 | -6.2 | -0.002 | Yes |
| Extreme (-20°C) | | 2501.0617 | 2568.9436 | 7.5 | 0.003 | Yes |
| Extreme (-30°C) | | 2501.0617 | 2568.9436 | 7.0 | 0.003 | Yes |
| 20°C | | 15% | 2501.0617 | 2568.9435 | 6.1 | 0.002 |
| | -15% | 2501.0617 | 2568.9436 | 8.1 | 0.003 | Yes |
| | End Point Voltage | 2501.0617 | 2568.9436 | 8.0 | 0.003 | Yes |

5G NR n7 BPSK (40MHz BANDWIDTH)

| Band | 7 | Frequency Range | | Frequency Error Reading (Hz) | Limit | |
|-----------------|-------------------|------------------------------|-------------------------------|------------------------------|---------------------------|--|
| Condition | | 2500 | 2570 | | Frequency Stability (ppm) | Within Authorized Frequency Block (Hz) |
| Temperature | Voltage | Freq Reading @ Low End (MHz) | Freq Reading @ High End (MHz) | | | |
| Normal (20°C) | Normal | 2500.6742 | 2659.2780 | | | |
| Extreme (50°C) | | 2500.6742 | 2659.2780 | 3.4 | 0.001 | Yes |
| Extreme (40°C) | | 2500.6742 | 2659.2780 | -7.5 | -0.003 | Yes |
| Extreme (30°C) | | 2500.6742 | 2659.2780 | -7.9 | -0.003 | Yes |
| Extreme (10°C) | | 2500.6742 | 2659.2780 | -7.4 | -0.003 | Yes |
| Extreme (0°C) | | 2500.6742 | 2659.2780 | -7.3 | -0.003 | Yes |
| Extreme (-10°C) | | 2500.6742 | 2659.2780 | -7.2 | -0.003 | Yes |
| Extreme (-20°C) | | 2500.6742 | 2659.2780 | -10.2 | -0.004 | Yes |
| Extreme (-30°C) | | 2500.6742 | 2659.2780 | -8.8 | -0.003 | Yes |
| | | | | | | |
| 20°C | 15% | 2500.6742 | 2659.2780 | -7.1 | -0.003 | Yes |
| | -15% | 2500.6742 | 2659.2780 | -7.1 | -0.003 | Yes |
| | End Point Voltage | 2500.6742 | 2659.2780 | -7.4 | -0.003 | Yes |

9.4.2. LTE BAND 12 AND 5G NR n12

LIMITS

FCC: §27.54

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

| | | | |
|--------------------------|-------|-------------------|-----------|
| Test Engineer ID: | 25780 | Test Date: | 3/26/2024 |
|--------------------------|-------|-------------------|-----------|

LTE BAND 12 QPSK (10MHz BANDWIDTH)

| Band | 12 | Frequency Range | | Frequency Error Reading (Hz) | Limit | |
|-----------------|-------------------|------------------------------|-------------------------------|------------------------------|---------------------------|--|
| Condition | | 699 | 716 | | Frequency Stability (ppm) | Within Authorized Frequency Block (Hz) |
| Temperature | Voltage | Freq Reading @ Low End (MHz) | Freq Reading @ High End (MHz) | | | |
| Normal (20°C) | Normal | 699.5191 | 715.4679 | | | |
| Extreme (50°C) | | 699.5190 | 715.4679 | -2.7 | -0.004 | Yes |
| Extreme (40°C) | | 699.5191 | 715.4679 | 3.0 | 0.004 | Yes |
| Extreme (30°C) | | 699.5190 | 715.4679 | -3.5 | -0.005 | Yes |
| Extreme (10°C) | | 699.5191 | 715.4679 | 4.3 | 0.006 | Yes |
| Extreme (0°C) | | 699.5191 | 715.4679 | 4.6 | 0.006 | Yes |
| Extreme (-10°C) | | 699.5191 | 715.4679 | 5.1 | 0.007 | Yes |
| Extreme (-20°C) | | 699.5191 | 715.4679 | 2.9 | 0.004 | Yes |
| Extreme (-30°C) | | 699.5191 | 715.4679 | 3.3 | 0.005 | Yes |
| | | | | | | |
| 20°C | 15% | 699.5191 | 715.4679 | 4.0 | 0.006 | Yes |
| | -15% | 699.5191 | 715.4679 | 5.2 | 0.007 | Yes |
| | End Point Voltage | 699.5190 | 715.4679 | -3.0 | -0.004 | Yes |

5G NR n12 BPSK (15MHz BANDWIDTH)

| Band | 12 | Frequency Range | | Frequency Error Reading (Hz) | Limit | |
|-----------------|-------------------|------------------------------|-------------------------------|------------------------------|---------------------------|--|
| Condition | | 699 | 716 | | Frequency Stability (ppm) | Within Authorized Frequency Block (Hz) |
| Temperature | Voltage | Freq Reading @ Low End (MHz) | Freq Reading @ High End (MHz) | | | |
| Normal (20°C) | Normal | 699.4261 | 714.8401 | | | |
| Extreme (50°C) | | 699.4261 | 714.8401 | -1.9 | -0.003 | Yes |
| Extreme (40°C) | | 699.4261 | 714.8401 | 1.7 | 0.002 | Yes |
| Extreme (30°C) | | 699.4261 | 714.8401 | 2.6 | 0.004 | Yes |
| Extreme (10°C) | | 699.4261 | 714.8401 | -2.2 | -0.003 | Yes |
| Extreme (0°C) | | 699.4261 | 714.8401 | -2.7 | -0.004 | Yes |
| Extreme (-10°C) | | 699.4261 | 714.8401 | 3.1 | 0.004 | Yes |
| Extreme (-20°C) | | 699.4261 | 714.8401 | 2.1 | 0.003 | Yes |
| Extreme (-30°C) | | 699.4261 | 714.8401 | -1.9 | -0.003 | Yes |
| 20°C | | 15% | 699.4261 | 714.8401 | 3.7 | 0.005 |
| | -15% | 699.4261 | 714.8401 | -2.7 | -0.004 | Yes |
| | End Point Voltage | 699.4261 | 714.8401 | -2.9 | -0.004 | Yes |

9.4.3. LTE BAND 13

LIMITS

FCC: §27.54

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

| | | | |
|-------------------|-------|------------|-----------|
| Test Engineer ID: | 25780 | Test Date: | 3/26/2024 |
|-------------------|-------|------------|-----------|

QPSK (10MHz BANDWIDTH)

| Band | 13 | Frequency Range | | Frequency Error Reading (Hz) | Limit | |
|-----------------|-------------------|------------------------------|-------------------------------|------------------------------|---------------------------|--|
| Condition | | 777 | 787 | | Frequency Stability (ppm) | Within Authorized Frequency Block (Hz) |
| Temperature | Voltage | Freq Reading @ Low End (MHz) | Freq Reading @ High End (MHz) | | | |
| Normal (20°C) | Normal | 777.5221 | 786.4718 | | | |
| Extreme (50°C) | | 777.5221 | 786.4718 | 2.8 | 0.004 | Yes |
| Extreme (40°C) | | 777.5221 | 786.4718 | -4.3 | -0.005 | Yes |
| Extreme (30°C) | | 777.5221 | 786.4718 | 4.6 | 0.006 | Yes |
| Extreme (10°C) | | 777.5221 | 786.4718 | 5.5 | 0.007 | Yes |
| Extreme (0°C) | | 777.5221 | 786.4718 | 5.3 | 0.007 | Yes |
| Extreme (-10°C) | | 777.5221 | 786.4718 | 5.4 | 0.007 | Yes |
| Extreme (-20°C) | | 777.5221 | 786.4718 | 4.7 | 0.006 | Yes |
| Extreme (-30°C) | | 777.5221 | 786.4718 | 3.0 | 0.004 | Yes |
| 20°C | | 15% | 777.5221 | 786.4718 | 4.9 | 0.006 |
| | -15% | 777.5221 | 786.4718 | 4.2 | 0.005 | Yes |
| | End Point Voltage | 777.5221 | 786.4718 | -4.2 | -0.005 | Yes |

9.4.4. LTE BAND 14 AND 5G NR n14

LIMITS

FCC: §90.539

(e) The frequency stability of mobile, portable and control transmitters operating in the wideband segment must be 1.25 ppm or better when AFC is locked to a base station, and 5 ppm or better when AFC is not locked.

| | | | |
|--------------------------|-------|-------------------|-----------|
| Test Engineer ID: | 25780 | Test Date: | 3/26/2024 |
|--------------------------|-------|-------------------|-----------|

LTE BAND 14 QPSK (10MHz BANDWIDTH)

| Band | 14 | Frequency Range | | Frequency Error Reading (Hz) | Limit | |
|-----------------|-------------------|------------------------------|-------------------------------|------------------------------|---------------------------|--|
| Condition | | 788 | 798 | | | |
| Temperature | Voltage | Freq Reading @ Low End (MHz) | Freq Reading @ High End (MHz) | | Frequency Stability (ppm) | Within Authorized Frequency Block (Hz) |
| Normal (20°C) | Normal | 788.5260 | 797.4749 | | | |
| Extreme (50°C) | | 788.5260 | 797.4749 | 3.5 | 0.004 | Yes |
| Extreme (40°C) | | 788.5260 | 797.4749 | -4.0 | -0.005 | Yes |
| Extreme (30°C) | | 788.5260 | 797.4749 | 3.7 | 0.005 | Yes |
| Extreme (10°C) | | 788.5260 | 797.4749 | 3.9 | 0.005 | Yes |
| Extreme (0°C) | | 788.5260 | 797.4749 | 3.7 | 0.005 | Yes |
| Extreme (-10°C) | | 788.5260 | 797.4749 | 4.4 | 0.005 | Yes |
| Extreme (-20°C) | | 788.5260 | 797.4749 | 4.2 | 0.005 | Yes |
| Extreme (-30°C) | | 788.5260 | 797.4749 | 3.8 | 0.005 | Yes |
| | | | | | | |
| 20°C | 15% | 788.5260 | 797.4749 | 3.9 | 0.005 | Yes |
| | -15% | 788.5260 | 797.4749 | 5.0 | 0.006 | Yes |
| | End Point Voltage | 788.5260 | 797.4749 | 3.6 | 0.005 | Yes |

| | | | |
|-------------------|-------|------------|-----------|
| Test Engineer ID: | 25780 | Test Date: | 2/21/2024 |
|-------------------|-------|------------|-----------|

5G NR n14 BPSK (10MHz BANDWIDTH)

| Band | 14 | Frequency Range | | Frequency Error Reading (Hz) | Limit | |
|-----------------|-------------------|------------------------------|-------------------------------|------------------------------|---------------------------|--|
| Condition | | 788 | 798 | | | |
| Temperature | Voltage | Freq Reading @ Low End (MHz) | Freq Reading @ High End (MHz) | | Frequency Stability (ppm) | Within Authorized Frequency Block (Hz) |
| Normal (20°C) | Normal | 788.3326 | 797.2745 | | | |
| Extreme (50°C) | | 788.3326 | 797.2745 | 1.9 | 0.002 | Yes |
| Extreme (40°C) | | 788.3326 | 797.2745 | 1.7 | 0.002 | Yes |
| Extreme (30°C) | | 788.3326 | 797.2745 | 2.1 | 0.003 | Yes |
| Extreme (10°C) | | 788.3326 | 797.2745 | 2.2 | 0.003 | Yes |
| Extreme (0°C) | | 788.3326 | 797.2745 | 2.0 | 0.003 | Yes |
| Extreme (-10°C) | | 788.3326 | 797.2745 | 2.2 | 0.003 | Yes |
| Extreme (-20°C) | | 788.3326 | 797.2745 | 2.8 | 0.003 | Yes |
| Extreme (-30°C) | | 788.3326 | 797.2745 | 2.4 | 0.003 | Yes |
| | | | | | | |
| 20°C | 15% | 788.3326 | 797.2745 | 2.5 | 0.003 | Yes |
| | -15% | 788.3326 | 797.2745 | 2.5 | 0.003 | Yes |
| | End Point Voltage | 788.3326 | 797.2745 | 2.8 | 0.004 | Yes |

9.4.5. LTE BAND 17

LIMITS

FCC: §27.54

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

| | | | |
|--------------------------|-------|-------------------|-----------|
| Test Engineer ID: | 25780 | Test Date: | 3/26/2024 |
|--------------------------|-------|-------------------|-----------|

QPSK (10MHz BANDWIDTH)

| Band | | Frequency Range | | Frequency Error Reading (Hz) | Limit | |
|-----------------|-------------------|------------------------------|-------------------------------|------------------------------|---------------------------|--|
| Condition | | 704 | 716 | | Frequency Stability (ppm) | Within Authorized Frequency Block (Hz) |
| Temperature | Voltage | Freq Reading @ Low End (MHz) | Freq Reading @ High End (MHz) | | | |
| Normal (20°C) | Normal | 704.5220 | 713.4766 | | | |
| Extreme (50°C) | | 704.5220 | 713.4766 | 3.0 | 0.004 | Yes |
| Extreme (40°C) | | 704.5220 | 713.4766 | -3.6 | -0.005 | Yes |
| Extreme (30°C) | | 704.5220 | 713.4766 | 4.6 | 0.007 | Yes |
| Extreme (10°C) | | 704.5220 | 713.4766 | 3.2 | 0.005 | Yes |
| Extreme (0°C) | | 704.5220 | 713.4766 | 4.3 | 0.006 | Yes |
| Extreme (-10°C) | | 704.5220 | 713.4766 | 5.0 | 0.007 | Yes |
| Extreme (-20°C) | | 704.5220 | 713.4766 | 4.4 | 0.006 | Yes |
| Extreme (-30°C) | | 704.5220 | 713.4766 | 4.1 | 0.006 | Yes |
| | | | | | | |
| 20°C | 15% | 704.5220 | 713.4766 | 3.8 | 0.005 | Yes |
| | -15% | 704.5220 | 713.4766 | 4.2 | 0.006 | Yes |
| | End Point Voltage | 704.5220 | 713.4766 | 3.6 | 0.005 | Yes |

9.4.6. LTE BAND 25 AND 5G NR n25

LIMITS

FCC: §24.235

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

| | | | |
|--------------------------|-------|-------------------|-----------|
| Test Engineer ID: | 25780 | Test Date: | 3/26/2024 |
|--------------------------|-------|-------------------|-----------|

LTE BAND 25 QPSK (20MHz BANDWIDTH)

| Band | | 25 | | Frequency Range | | Frequency Error Reading (Hz) | Limit | |
|-----------------|-------------------|------------------------------|-------------------------------|-----------------|--|------------------------------|-------|--|
| Condition | | 1850 | 1915 | 2.5 | Within Authorized Frequency Block (Hz) | | | |
| Temperature | Voltage | Freq Reading @ Low End (MHz) | Freq Reading @ High End (MHz) | | | | | |
| Normal (20°C) | Normal | 1851.0654 | 1913.9359 | | | | | |
| Extreme (50°C) | | 1851.0654 | 1913.9359 | -5.5 | -0.003 | Yes | | |
| Extreme (40°C) | | 1851.0654 | 1913.9359 | -6.0 | -0.003 | Yes | | |
| Extreme (30°C) | | 1851.0654 | 1913.9359 | -6.5 | -0.003 | Yes | | |
| Extreme (10°C) | | 1851.0654 | 1913.9359 | -7.1 | -0.004 | Yes | | |
| Extreme (0°C) | | 1851.0654 | 1913.9359 | -5.9 | -0.003 | Yes | | |
| Extreme (-10°C) | | 1851.0654 | 1913.9359 | -6.4 | -0.003 | Yes | | |
| Extreme (-20°C) | | 1851.0654 | 1913.9359 | -7.0 | -0.004 | Yes | | |
| Extreme (-30°C) | | 1851.0654 | 1913.9359 | -5.2 | -0.003 | Yes | | |
| | | | | | | | | |
| 20°C | 15% | 1851.0654 | 1913.9359 | -5.2 | -0.003 | Yes | | |
| | -15% | 1851.0655 | 1913.9359 | 5.5 | 0.003 | Yes | | |
| | End Point Voltage | 1851.0655 | 1913.9359 | 6.6 | 0.004 | Yes | | |

5G NR n25 BPSK (40MHz BANDWIDTH)

| Band | | 25 | | Frequency Range | | Frequency Error Reading (Hz) | Limit | |
|-----------------|-------------------|------------------------------|-------------------------------|-----------------|--------|------------------------------|---------------------------|--|
| Condition | | 1850 | 1915 | 2.5 | | | Frequency Stability (ppm) | Within Authorized Frequency Block (Hz) |
| Temperature | Voltage | Freq Reading @ Low End (MHz) | Freq Reading @ High End (MHz) | | | | | |
| Normal (20°C) | Normal | 1850.6525 | 1914.3001 | | | | | |
| Extreme (50°C) | | 1850.6525 | 1914.3001 | 3.9 | 0.002 | Yes | | |
| Extreme (40°C) | | 1850.6525 | 1914.3001 | -2.7 | -0.001 | Yes | | |
| Extreme (30°C) | | 1850.6525 | 1914.3001 | -3.8 | -0.002 | Yes | | |
| Extreme (10°C) | | 1850.6525 | 1914.3001 | 3.3 | 0.002 | Yes | | |
| Extreme (0°C) | | 1850.6525 | 1914.3001 | -3.3 | -0.002 | Yes | | |
| Extreme (-10°C) | | 1850.6525 | 1914.3001 | -3.1 | -0.002 | Yes | | |
| Extreme (-20°C) | | 1850.6525 | 1914.3001 | -4.4 | -0.002 | Yes | | |
| Extreme (-30°C) | | 1850.6525 | 1914.3001 | -4.5 | -0.002 | Yes | | |
| <hr/> | | | | | | | | |
| 20°C | 15% | 1850.6525 | 1914.3001 | -5.0 | -0.003 | Yes | | |
| | -15% | 1850.6525 | 1914.3001 | -4.0 | -0.002 | Yes | | |
| | End Point Voltage | 1850.6525 | 1914.3001 | -3.5 | -0.002 | Yes | | |

9.4.7. LTE BAND 26 AND 5G NR n26(FCC PART 90S)

LIMITS

FCC: §90.213

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

| | | | |
|--------------------------|-------|-------------------|-----------|
| Test Engineer ID: | 12482 | Test Date: | 3/26/2024 |
|--------------------------|-------|-------------------|-----------|

LTE QPSK (5MHz BANDWIDTH)

| Band | | 26 | | Frequency Range | | Frequency Error Reading (Hz) | Limit | |
|-----------------|-------------------|------------------------------|-------------------------------|-----------------|--|------------------------------|-------|--|
| Condition | | 814 | 824 | 2.5 | Within Authorized Frequency Block (Hz) | | | |
| Temperature | Voltage | Freq Reading @ Low End (MHz) | Freq Reading @ High End (MHz) | | | | | |
| Normal (20°C) | Normal | 814.5188 | 823.4717 | | | | | |
| Extreme (50°C) | | 814.5188 | 823.4717 | 4.0 | 0.005 | Yes | | |
| Extreme (40°C) | | 814.5188 | 823.4717 | 4.6 | 0.006 | Yes | | |
| Extreme (30°C) | | 814.5188 | 823.4717 | 4.1 | 0.005 | Yes | | |
| Extreme (10°C) | | 814.5188 | 823.4717 | 5.0 | 0.006 | Yes | | |
| Extreme (0°C) | | 814.5188 | 823.4717 | 4.4 | 0.005 | Yes | | |
| Extreme (-10°C) | | 814.5188 | 823.4717 | 4.2 | 0.005 | Yes | | |
| Extreme (-20°C) | | 814.5188 | 823.4717 | 4.5 | 0.006 | Yes | | |
| Extreme (-30°C) | | 814.5188 | 823.4717 | 5.5 | 0.007 | Yes | | |
| 20°C | | 15% | 814.5188 | 823.4717 | -4.3 | -0.005 | Yes | |
| | -15% | 814.5188 | 823.4717 | -5.5 | -0.007 | Yes | | |
| | End Point Voltage | 814.5188 | 823.4717 | 4.6 | 0.006 | Yes | | |

5G NR n26 BPSK (20MHz BANDWIDTH)

| Band | 26 | Frequency Range | | Frequency Error Reading (Hz) | Limit | |
|-----------------|-------------------|------------------------------|-------------------------------|------------------------------|---------------------------|--|
| Condition | | 814 | 824 | | 2.5 | Within Authorized Frequency Block (Hz) |
| Temperature | Voltage | Freq Reading @ Low End (MHz) | Freq Reading @ High End (MHz) | | Frequency Stability (ppm) | |
| Normal (20°C) | Normal | 814.3416 | 823.2891 | | | |
| Extreme (50°C) | | 814.3416 | 823.2891 | -3.7 | -0.004 | Yes |
| Extreme (40°C) | | 814.3416 | 823.2891 | -4.7 | -0.006 | Yes |
| Extreme (30°C) | | 814.3416 | 823.2891 | -3.9 | -0.005 | Yes |
| Extreme (10°C) | | 814.3416 | 823.2891 | -4.4 | -0.005 | Yes |
| Extreme (0°C) | | 814.3416 | 823.2891 | 4.2 | 0.005 | Yes |
| Extreme (-10°C) | | 814.3416 | 823.2891 | -3.9 | -0.005 | Yes |
| Extreme (-20°C) | | 814.3416 | 823.2891 | -4.4 | -0.005 | Yes |
| Extreme (-30°C) | | 814.3416 | 823.2891 | -4.0 | -0.005 | Yes |
| | | | | | | |
| 20°C | 15% | 814.3416 | 823.2891 | 2.7 | 0.003 | Yes |
| | -15% | 814.3416 | 823.2891 | 3.1 | 0.004 | Yes |
| | End Point Voltage | 814.3416 | 823.2891 | 2.5 | 0.003 | Yes |

9.4.8. LTE BAND 26 AND 5G NR n26(FCC PART 22)

LIMITS

FCC: §22.355

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

| | | | |
|--------------------------|-------|-------------------|-----------|
| Test Engineer ID: | 12482 | Test Date: | 3/26/2024 |
|--------------------------|-------|-------------------|-----------|

LTE BAND 26 QPSK (10MHz BANDWIDTH)

| Band | | 26 | | Frequency Range | | Frequency Error Reading (Hz) | Limit | |
|-----------------|-------------------|------------------------------|-------------------------------|-----------------|--|------------------------------|-------|--|
| Condition | | 824 | 849 | 2.5 | Within Authorized Frequency Block (Hz) | | | |
| Temperature | Voltage | Freq Reading @ Low End (MHz) | Freq Reading @ High End (MHz) | | | | | |
| Normal (20°C) | Normal | 824.2940 | 848.2103 | | | | | |
| Extreme (50°C) | | 824.2940 | 848.2103 | -3.1 | -0.004 | Yes | | |
| Extreme (40°C) | | 824.2940 | 848.2103 | 5.3 | 0.006 | Yes | | |
| Extreme (30°C) | | 824.2940 | 848.2103 | -4.0 | -0.005 | Yes | | |
| Extreme (10°C) | | 824.2940 | 848.2103 | -3.4 | -0.004 | Yes | | |
| Extreme (0°C) | | 824.2940 | 848.2103 | 4.8 | 0.006 | Yes | | |
| Extreme (-10°C) | | 824.2940 | 848.2103 | -3.4 | -0.004 | Yes | | |
| Extreme (-20°C) | | 824.2940 | 848.2103 | 4.1 | 0.005 | Yes | | |
| Extreme (-30°C) | | 824.2940 | 848.2103 | 4.5 | 0.005 | Yes | | |
| 20°C | | 15% | 824.2940 | 848.2103 | -3.4 | -0.004 | Yes | |
| | -15% | 824.2940 | 848.2103 | -3.6 | -0.004 | Yes | | |
| | End Point Voltage | 824.2940 | 848.2103 | 4.7 | 0.006 | Yes | | |

5G NR n26 BPSK (20MHz BANDWIDTH)

| Band | 26 | Frequency Range | | Frequency Error Reading (Hz) | Limit | |
|-----------------|-------------------|------------------------------|-------------------------------|------------------------------|---------------------------|--|
| Condition | | 824 | 849 | | 2.5 | |
| Temperature | Voltage | Freq Reading @ Low End (MHz) | Freq Reading @ High End (MHz) | | Frequency Stability (ppm) | Within Authorized Frequency Block (Hz) |
| Normal (20°C) | Normal | 824.5316 | 847.3781 | | | |
| Extreme (50°C) | | 824.5316 | 847.3781 | 2.8 | 0.003 | Yes |
| Extreme (40°C) | | 824.5316 | 847.3781 | 1.7 | 0.002 | Yes |
| Extreme (30°C) | | 824.5316 | 847.3781 | 2.3 | 0.003 | Yes |
| Extreme (10°C) | | 824.5316 | 847.3781 | 3.4 | 0.004 | Yes |
| Extreme (0°C) | | 824.5316 | 847.3781 | 2.2 | 0.003 | Yes |
| Extreme (-10°C) | | 824.5316 | 847.3781 | 2.2 | 0.003 | Yes |
| Extreme (-20°C) | | 824.5316 | 847.3781 | 2.3 | 0.003 | Yes |
| Extreme (-30°C) | | 824.5316 | 847.3781 | -2.2 | -0.003 | Yes |
| | | | | | | |
| 20°C | 15% | 824.5316 | 847.3781 | -2.0 | -0.002 | Yes |
| | -15% | 824.5316 | 847.3781 | 2.2 | 0.003 | Yes |
| | End Point Voltage | 824.5316 | 847.3781 | 2.7 | 0.003 | Yes |

9.4.9. LTE BAND 30 AND 5G NR n30

LIMITS

FCC: §27.54

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

| | | | |
|-------------------|-------|------------|-----------|
| Test Engineer ID: | 12482 | Test Date: | 3/26/2024 |
|-------------------|-------|------------|-----------|

QPSK (10MHz BANDWIDTH)

| Band | 30 | Frequency Range | | Frequency Error Reading (Hz) | Limit | |
|-----------------|-------------------|------------------------------|-------------------------------|------------------------------|---------------------------|--|
| Condition | | 2305 | 2315 | | | |
| Temperature | Voltage | Freq Reading @ Low End (MHz) | Freq Reading @ High End (MHz) | | Frequency Stability (ppm) | Within Authorized Frequency Block (Hz) |
| Normal (20°C) | Normal | 2305.5200 | 2314.4763 | | | |
| Extreme (50°C) | | 2305.5199 | 2314.4763 | -4.9 | -0.002 | Yes |
| Extreme (40°C) | | 2305.5199 | 2314.4763 | -6.4 | -0.003 | Yes |
| Extreme (30°C) | | 2305.5199 | 2314.4763 | -5.6 | -0.002 | Yes |
| Extreme (10°C) | | 2305.5200 | 2314.4763 | 6.0 | 0.003 | Yes |
| Extreme (0°C) | | 2305.5199 | 2314.4763 | -5.8 | -0.003 | Yes |
| Extreme (-10°C) | | 2305.5200 | 2314.4763 | 4.9 | 0.002 | Yes |
| Extreme (-20°C) | | 2305.5199 | 2314.4763 | -4.8 | -0.002 | Yes |
| Extreme (-30°C) | | 2305.5200 | 2314.4763 | 5.1 | 0.002 | Yes |
| | | | | | | |
| 20°C | 15% | 2305.5199 | 2314.4763 | -5.1 | -0.002 | Yes |
| | -15% | 2305.5199 | 2314.4763 | -4.5 | -0.002 | Yes |
| | End Point Voltage | 2305.5199 | 2314.4763 | -5.4 | -0.002 | Yes |

5G NR n30 BPSK (10MHz BANDWIDTH)

| Band | 30 | Frequency Range | | Frequency Error Reading (Hz) | Limit | |
|-----------------|-------------------|------------------------------|-------------------------------|------------------------------|---------------------------|--|
| Condition | | 2305 | 2315 | | Frequency Stability (ppm) | Within Authorized Frequency Block (Hz) |
| Temperature | Voltage | Freq Reading @ Low End (MHz) | Freq Reading @ High End (MHz) | | | |
| Normal (20°C) | Normal | 2305.3451 | 2314.2925 | | | |
| Extreme (50°C) | | 2305.3451 | 2314.2925 | -8.1 | -0.004 | Yes |
| Extreme (40°C) | | 2305.3451 | 2314.2925 | -8.0 | -0.003 | Yes |
| Extreme (30°C) | | 2305.3451 | 2314.2925 | -8.3 | -0.004 | Yes |
| Extreme (10°C) | | 2305.3451 | 2314.2925 | -8.2 | -0.004 | Yes |
| Extreme (0°C) | | 2305.3451 | 2314.2925 | -9.0 | -0.004 | Yes |
| Extreme (-10°C) | | 2305.3451 | 2314.2925 | -8.8 | -0.004 | Yes |
| Extreme (-20°C) | | 2305.3451 | 2314.2925 | -10.4 | -0.004 | Yes |
| Extreme (-30°C) | | 2305.3451 | 2314.2925 | -9.3 | -0.004 | Yes |
| | | | | | | |
| 20°C | 15% | 2305.3451 | 2314.2925 | -10.7 | -0.005 | Yes |
| | -15% | 2305.3451 | 2314.2925 | -7.7 | -0.003 | Yes |
| | End Point Voltage | 2305.3451 | 2314.2925 | -8.5 | -0.004 | Yes |

9.4.10. LTE BAND 41 AND 5G NR n41

LIMITS

FCC: §27.54

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

| | | | |
|--------------------------|-------|-------------------|-----------|
| Test Engineer ID: | 32546 | Test Date: | 3/22/2024 |
|--------------------------|-------|-------------------|-----------|

LTE BAND 41 QPSK (20MHz BANDWIDTH)

| Band | | 41 | | Frequency Range | | Frequency Error Reading (Hz) | Limit | |
|-----------------|-------------------|-----------|-----------|------------------------------|-------------------------------|------------------------------|---------------------------|--|
| Condition | | 2496 | 2690 | Freq Reading @ Low End (MHz) | Freq Reading @ High End (MHz) | | Frequency Stability (ppm) | Within Authorized Frequency Block (Hz) |
| Temperature | Voltage | | | | | | | |
| Normal (20°C) | Normal | 2496.7079 | 2689.0375 | | | | | |
| Extreme (50°C) | | 2496.7079 | 2689.0375 | -13.3 | -0.005 | Yes | | |
| Extreme (40°C) | | 2496.7079 | 2689.0375 | -12.8 | -0.005 | Yes | | |
| Extreme (30°C) | | 2496.7079 | 2689.0375 | -13.1 | -0.005 | Yes | | |
| Extreme (10°C) | | 2496.7079 | 2689.0375 | -12.5 | -0.005 | Yes | | |
| Extreme (0°C) | | 2496.7079 | 2689.0375 | -12.1 | -0.005 | Yes | | |
| Extreme (-10°C) | | 2496.7079 | 2689.0375 | -13.1 | -0.005 | Yes | | |
| Extreme (-20°C) | | 2496.7079 | 2689.0375 | -13.8 | -0.005 | Yes | | |
| Extreme (-30°C) | | 2496.7079 | 2689.0375 | -14.1 | -0.005 | Yes | | |
| | | | | | | | | |
| 20°C | 15% | 2496.7079 | 2689.0375 | -11.9 | -0.005 | Yes | | |
| | -15% | 2496.7079 | 2689.0375 | -12.1 | -0.005 | Yes | | |
| | End Point Voltage | 2496.7079 | 2689.0375 | -11.1 | -0.004 | Yes | | |

5G NR n41 BPSK (100MHz BANDWIDTH)

| Band | 41 | Frequency Range | | Frequency Error Reading (Hz) | Limit | |
|-----------------|-------------------|------------------------------|-------------------------------|------------------------------|---------------------------|--|
| Condition | | 2496 | 2690 | | Frequency Stability (ppm) | Within Authorized Frequency Block (Hz) |
| Temperature | Voltage | Freq Reading @ Low End (MHz) | Freq Reading @ High End (MHz) | | | |
| Normal (20°C) | Normal | 2497.1158 | 2687.7994 | | | |
| Extreme (50°C) | | 2497.1158 | 2687.7994 | -17.4 | -0.007 | Yes |
| Extreme (40°C) | | 2497.1158 | 2687.7994 | -14.3 | -0.006 | Yes |
| Extreme (30°C) | | 2497.1158 | 2687.7994 | -13.3 | -0.005 | Yes |
| Extreme (10°C) | | 2497.1158 | 2687.7994 | -18.6 | -0.007 | Yes |
| Extreme (0°C) | | 2497.1158 | 2687.7994 | -16.0 | -0.006 | Yes |
| Extreme (-10°C) | | 2497.1158 | 2687.7994 | -12.6 | -0.005 | Yes |
| Extreme (-20°C) | | 2497.1158 | 2687.7994 | -12.1 | -0.005 | Yes |
| Extreme (-30°C) | | 2497.1158 | 2687.7994 | -14.0 | -0.005 | Yes |
| | | | | | | |
| 20°C | 15% | 2497.1158 | 2687.7994 | -18.9 | -0.007 | Yes |
| | -15% | 2497.1158 | 2687.7994 | -14.4 | -0.006 | Yes |
| | End Point Voltage | 2497.1158 | 2687.7994 | -17.4 | -0.007 | Yes |

9.4.11. LTE BAND 66 AND 5G NR n66

LIMITS

FCC: §27.54

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

| | | | |
|--------------------------|-------|-------------------|-----------|
| Test Engineer ID: | 12482 | Test Date: | 3/27/2024 |
|--------------------------|-------|-------------------|-----------|

LTE BAND 66 QPSK (20MHz BANDWIDTH)

| Band | 66 | Frequency Range | | Frequency Error Reading (Hz) | Limit | |
|-----------------|-------------------|------------------------------|-------------------------------|------------------------------|---------------------------|--|
| | | 1710 | 1780 | | | |
| Condition | | Freq Reading @ Low End (MHz) | Freq Reading @ High End (MHz) | | Frequency Stability (ppm) | Within Authorized Frequency Block (Hz) |
| Temperature | Voltage | | | | | |
| Normal (20°C) | Normal | 1711.0498 | 1778.9449 | | | |
| Extreme (50°C) | | 1711.0498 | 1778.9449 | -5.1 | -0.003 | Yes |
| Extreme (40°C) | | 1711.0498 | 1778.9449 | -5.6 | -0.003 | Yes |
| Extreme (30°C) | | 1711.0498 | 1778.9449 | -4.2 | -0.002 | Yes |
| Extreme (10°C) | | 1711.0498 | 1778.9449 | -5.1 | -0.003 | Yes |
| Extreme (0°C) | | 1711.0498 | 1778.9449 | 4.4 | 0.003 | Yes |
| Extreme (-10°C) | | 1711.0498 | 1778.9449 | -4.0 | -0.002 | Yes |
| Extreme (-20°C) | | 1711.0498 | 1778.9449 | 4.5 | 0.003 | Yes |
| Extreme (-30°C) | | 1711.0498 | 1778.9449 | 4.7 | 0.003 | Yes |
| | | | | | | |
| 20°C | 15% | 1711.0498 | 1778.9449 | -5.6 | -0.003 | Yes |
| | -15% | 1711.0498 | 1778.9449 | -5.1 | -0.003 | Yes |
| | End Point Voltage | 1711.0498 | 1778.9449 | -5.5 | -0.003 | Yes |

5G NR n66 BPSK (40MHz BANDWIDTH)

| Band | 66 | Frequency Range | | Frequency Error Reading (Hz) | Limit | |
|-----------------|-------------------|------------------------------|-------------------------------|------------------------------|---------------------------|--|
| Condition | | 1710 | 1780 | | Frequency Stability (ppm) | Within Authorized Frequency Block (Hz) |
| Temperature | Voltage | Freq Reading @ Low End (MHz) | Freq Reading @ High End (MHz) | | | |
| Normal (20°C) | Normal | 1710.6619 | 1779.2854 | | | |
| Extreme (50°C) | | 1710.6619 | 1779.2854 | -7.7 | -0.004 | Yes |
| Extreme (40°C) | | 1710.6619 | 1779.2854 | -7.3 | -0.004 | Yes |
| Extreme (30°C) | | 1710.6619 | 1779.2854 | -8.6 | -0.005 | Yes |
| Extreme (10°C) | | 1710.6619 | 1779.2854 | -7.6 | -0.004 | Yes |
| Extreme (0°C) | | 1710.6619 | 1779.2854 | -7.8 | -0.004 | Yes |
| Extreme (-10°C) | | 1710.6619 | 1779.2854 | -8.0 | -0.005 | Yes |
| Extreme (-20°C) | | 1710.6619 | 1779.2854 | -8.1 | -0.005 | Yes |
| Extreme (-30°C) | | 1710.6619 | 1779.2854 | -7.4 | -0.004 | Yes |
| | | | | | | |
| 20°C | 15% | 1710.6619 | 1779.2854 | -7.1 | -0.004 | Yes |
| | -15% | 1710.6619 | 1779.2854 | 6.2 | 0.004 | Yes |
| | End Point Voltage | 1710.6619 | 1779.2854 | 6.7 | 0.004 | Yes |

9.4.12. 5G NR n70

LIMITS

FCC: §27.54

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

| | | | |
|--------------------------|-------|-------------------|-----------|
| Test Engineer ID: | 25780 | Test Date: | 2/21/2024 |
|--------------------------|-------|-------------------|-----------|

5G NR n70 BPSK (15MHz BANDWIDTH)

| Band | 70 | Frequency Range | | Frequency Error Reading (Hz) | Limit | |
|-----------------|-------------------|------------------------------|-------------------------------|------------------------------|---------------------------|--|
| Condition | | 1695 | 1710 | | Frequency Stability (ppm) | Within Authorized Frequency Block (Hz) |
| Temperature | Voltage | Freq Reading @ Low End (MHz) | Freq Reading @ High End (MHz) | | | |
| Normal (20°C) | Normal | 1695.4200 | 1708.8452 | | | |
| Extreme (50°C) | | 1695.4200 | 1708.8452 | -6.9 | -0.004 | Yes |
| Extreme (40°C) | | 1695.4200 | 1708.8452 | -7.2 | -0.004 | Yes |
| Extreme (30°C) | | 1695.4200 | 1708.8452 | -7.5 | -0.004 | Yes |
| Extreme (10°C) | | 1695.4200 | 1708.8452 | -7.3 | -0.004 | Yes |
| Extreme (0°C) | | 1695.4200 | 1708.8452 | -6.9 | -0.004 | Yes |
| Extreme (-10°C) | | 1695.4200 | 1708.8452 | -6.6 | -0.004 | Yes |
| Extreme (-20°C) | | 1695.4200 | 1708.8452 | -7.0 | -0.004 | Yes |
| Extreme (-30°C) | | 1695.4200 | 1708.8452 | -8.4 | -0.005 | Yes |
| 20°C | | 15% | 1695.4200 | 1708.8452 | 3.5 | 0.002 |
| | -15% | 1695.4200 | 1708.8452 | 4.4 | 0.003 | Yes |
| | End Point Voltage | 1695.4200 | 1708.8452 | 3.4 | 0.002 | Yes |

9.4.13. LTE BAND 71 AND 5G NR n71

LIMITS

FCC: §27.54

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

| | | | |
|--------------------------|-------|-------------------|-----------|
| Test Engineer ID: | 12482 | Test Date: | 3/27/2024 |
|--------------------------|-------|-------------------|-----------|

LTE BAND 71 QPSK (20MHz BANDWIDTH)

| Band | 71 | Frequency Range | | Frequency Error Reading (Hz) | Limit | |
|-----------------|-------------------|------------------------------|-------------------------------|------------------------------|---------------------------|--|
| Condition | | 663 | 698 | | | |
| Temperature | Voltage | Freq Reading @ Low End (MHz) | Freq Reading @ High End (MHz) | | Frequency Stability (ppm) | Within Authorized Frequency Block (Hz) |
| Normal (20°C) | Normal | 664.0501 | 696.9343 | | | |
| Extreme (50°C) | | 664.0501 | 696.9343 | -3.8 | -0.006 | Yes |
| Extreme (40°C) | | 664.0501 | 696.9343 | -3.2 | -0.005 | Yes |
| Extreme (30°C) | | 664.0501 | 696.9343 | -3.1 | -0.005 | Yes |
| Extreme (10°C) | | 664.0501 | 696.9343 | -3.7 | -0.005 | Yes |
| Extreme (0°C) | | 664.0501 | 696.9343 | 3.4 | 0.005 | Yes |
| Extreme (-10°C) | | 664.0501 | 696.9343 | 3.7 | 0.005 | Yes |
| Extreme (-20°C) | | 664.0501 | 696.9343 | 3.5 | 0.005 | Yes |
| Extreme (-30°C) | | 664.0501 | 696.9343 | 3.5 | 0.005 | Yes |
| | | | | | | |
| 20°C | 15% | 664.0501 | 696.9343 | 4.1 | 0.006 | Yes |
| | -15% | 664.0501 | 696.9343 | 4.4 | 0.006 | Yes |
| | End Point Voltage | 664.0501 | 696.9343 | 4.6 | 0.007 | Yes |

5G NR n71 BPSK (20MHz BANDWIDTH)

| Band | 71 | Frequency Range | | Frequency Error Reading (Hz) | Limit | |
|-----------------|-------------------|------------------------------|-------------------------------|------------------------------|---------------------------|--|
| Condition | | 663 | 698 | | Frequency Stability (ppm) | Within Authorized Frequency Block (Hz) |
| Temperature | Voltage | Freq Reading @ Low End (MHz) | Freq Reading @ High End (MHz) | | | |
| Normal (20°C) | Normal | 663.5270 | 696.3778 | | | |
| Extreme (50°C) | | 663.5270 | 696.3779 | 2.9 | 0.004 | Yes |
| Extreme (40°C) | | 663.5270 | 696.3779 | 3.1 | 0.005 | Yes |
| Extreme (30°C) | | 663.5270 | 696.3778 | 2.1 | 0.003 | Yes |
| Extreme (10°C) | | 663.5270 | 696.3778 | 2.5 | 0.004 | Yes |
| Extreme (0°C) | | 663.5270 | 696.3778 | 2.6 | 0.004 | Yes |
| Extreme (-10°C) | | 663.5270 | 696.3778 | 2.3 | 0.003 | Yes |
| Extreme (-20°C) | | 663.5270 | 696.3778 | -5.1 | -0.007 | Yes |
| Extreme (-30°C) | | 663.5270 | 696.3779 | 5.7 | 0.008 | Yes |
| | | | | | | |
| 20°C | 15% | 663.5270 | 696.3779 | 3.3 | 0.005 | Yes |
| | -15% | 663.5270 | 696.3778 | 2.4 | 0.004 | Yes |
| | End Point Voltage | 663.5270 | 696.3779 | 4.1 | 0.006 | Yes |

9.4.14. 5G NR n77 (FCC Part 27 3450-3550MHz)

LIMITS

FCC: §27.54

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

| | | | |
|--------------------------|-------|-------------------|-----------|
| Test Engineer ID: | 25780 | Test Date: | 1/24/2023 |
|--------------------------|-------|-------------------|-----------|

5G NR n77 BPSK (100MHz BANDWIDTH)

| Band | 77 | Frequency Range | | Frequency Error Reading (Hz) | Limit | |
|-----------------|-------------------|------------------------------|-------------------------------|------------------------------|---------------------------|--|
| Condition | | 3450 | 3550 | | | |
| Temperature | Voltage | Freq Reading @ Low End (MHz) | Freq Reading @ High End (MHz) | | Frequency Stability (ppm) | Within Authorized Frequency Block (Hz) |
| Normal (20°C) | Normal | 3451.1256 | 3547.7228 | | | |
| Extreme (50°C) | | 3451.1255 | 3547.7228 | -17.3 | -0.005 | Yes |
| Extreme (40°C) | | 3451.1255 | 3547.7228 | -15.1 | -0.004 | Yes |
| Extreme (30°C) | | 3451.1255 | 3547.7228 | -16.2 | -0.005 | Yes |
| Extreme (10°C) | | 3451.1255 | 3547.7228 | -17.2 | -0.005 | Yes |
| Extreme (0°C) | | 3451.1255 | 3547.7228 | -13.9 | -0.004 | Yes |
| Extreme (-10°C) | | 3451.1255 | 3547.7228 | -16.8 | -0.005 | Yes |
| Extreme (-20°C) | | 3451.1255 | 3547.7228 | -13.8 | -0.004 | Yes |
| Extreme (-30°C) | | 3451.1255 | 3547.7228 | -12.7 | -0.004 | Yes |
| | | | | | | |
| 20°C | 15% | 3451.1255 | 3547.7228 | -11.6 | -0.003 | Yes |
| | -15% | 3451.1255 | 3547.7228 | -13.2 | -0.004 | Yes |
| | End Point Voltage | 3451.1255 | 3547.7228 | -14.7 | -0.004 | Yes |

9.4.15. 5G NR n77 (FCC Part 27 3700-3980MHz)

LIMITS

FCC: §27.54

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

| | | | |
|--------------------------|-------|-------------------|-----------|
| Test Engineer ID: | 25780 | Test Date: | 1/24/2023 |
|--------------------------|-------|-------------------|-----------|

5G NR n77 BPSK (100MHz BANDWIDTH)

| Band | | 77 | | Frequency Range | | Frequency Error Reading (Hz) | Limit | |
|-----------------|-------------------|-----------|-----------|------------------------------|-------------------------------|------------------------------|---------------------------|--|
| Condition | | 3700 | 3980 | Freq Reading @ Low End (MHz) | Freq Reading @ High End (MHz) | | Frequency Stability (ppm) | Within Authorized Frequency Block (Hz) |
| Temperature | Voltage | | | | | | | |
| Normal (20°C) | Normal | 3701.0762 | 3977.6741 | | | | | |
| Extreme (50°C) | | 3701.0762 | 3977.6741 | -17.9 | -0.005 | Yes | | |
| Extreme (40°C) | | 3701.0762 | 3977.6741 | -15.1 | -0.004 | Yes | | |
| Extreme (30°C) | | 3701.0762 | 3977.6741 | -16.1 | -0.004 | Yes | | |
| Extreme (10°C) | | 3701.0762 | 3977.6741 | -13.7 | -0.004 | Yes | | |
| Extreme (0°C) | | 3701.0762 | 3977.6741 | -14.8 | -0.004 | Yes | | |
| Extreme (-10°C) | | 3701.0762 | 3977.6741 | -22.0 | -0.006 | Yes | | |
| Extreme (-20°C) | | 3701.0762 | 3977.6741 | -17.7 | -0.005 | Yes | | |
| Extreme (-30°C) | | 3701.0762 | 3977.6741 | -16.5 | -0.004 | Yes | | |
| 20°C | | 15% | 3701.0762 | 3977.6741 | -16.8 | -0.004 | Yes | |
| | -15% | 3701.0762 | 3977.6741 | -16.0 | -0.004 | Yes | | |
| | End Point Voltage | 3701.0762 | 3977.6741 | -14.9 | -0.004 | Yes | | |

9.5. PEAK-TO-AVERAGE POWER RATIO

LIMIT

In addition, the peak-to-average power ratio (PAPR) of the transmitter shall not exceed 13 dB for more than 0.1% of the time and shall use a signal corresponding to the highest PAPR during periods of continuous transmission.

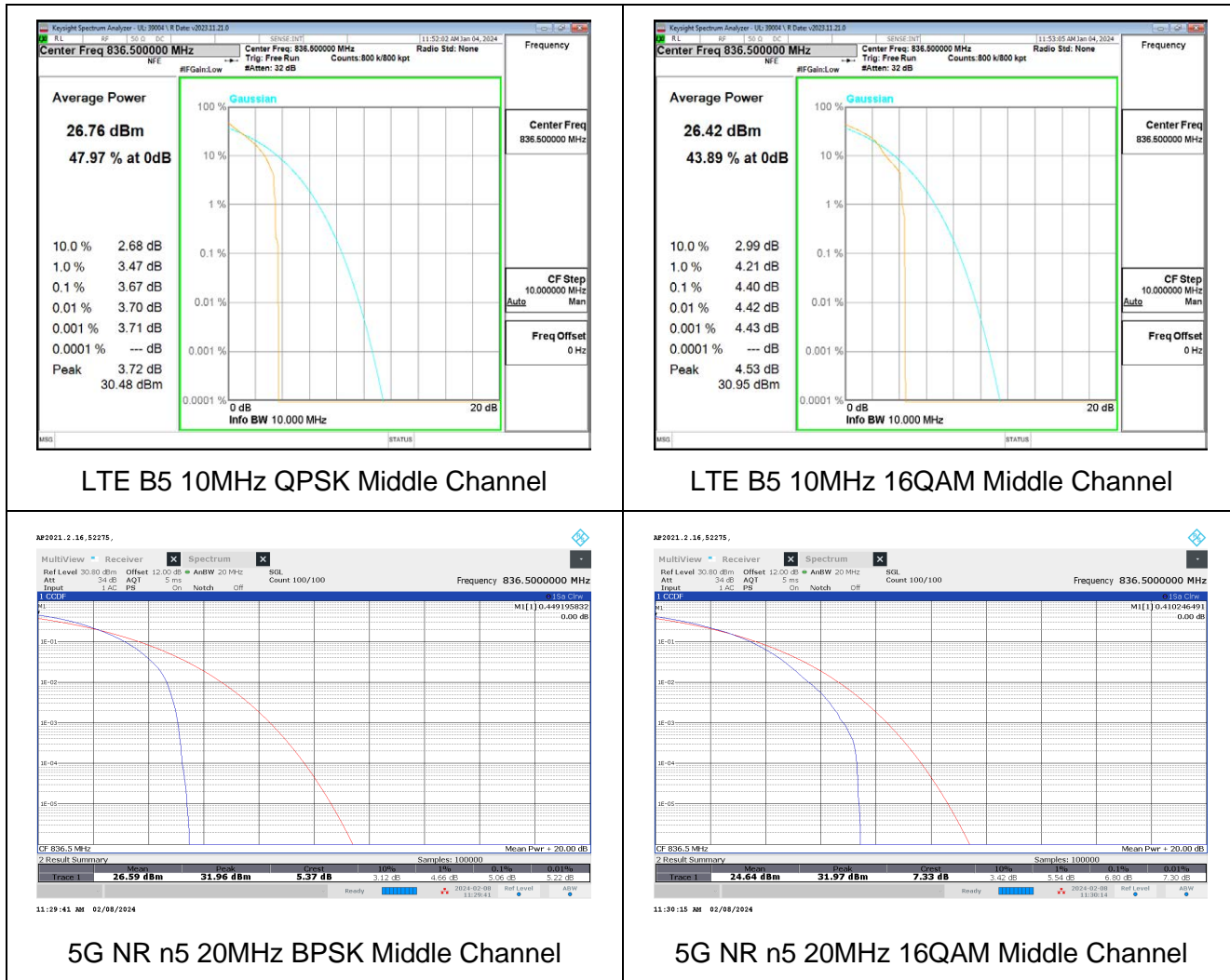
TEST PROCEDURES

- Set resolution/measurement bandwidth \geq Signal's OBW
- Set the number of counts to a value that stabilizes the measured CCDF curves;

RESULT

The worst-case antenna port for conducted power shown in section 6.5. was used to measure as the worst case; full resource block (FRB) for each bandwidth was used to measure as the worst case. The results from all CCDF measurements are passed with 13dB peak-to-average power ratio criteria.

Example Plots: FULL RB



9.5.1. LTE BAND 7 AND 5G NR n7

| | | | |
|--------------------------|-------|-------------------|------------|
| Test Engineer ID: | 32061 | Test Date: | 2024-03-12 |
|--------------------------|-------|-------------------|------------|

| Band | Bandwidth (MHz) | Frequency (MHz) | RB Allocation | RB OffSet | Modulation | Conducted Power (dBm) | | Peak-to-Average Power Ratio (dB) |
|--|-----------------|-----------------|---------------|-----------|------------|-----------------------|---------|----------------------------------|
| | | | | | | Peak | Average | |
| Band 7 | 5MHz | 2535.0 | 25 | 0 | QPSK | 31.16 | 27.32 | 3.84 |
| | | | | | 16QAM | 32.12 | 27.57 | 4.55 |
| | 10MHz | | 50 | 0 | QPSK | 30.89 | 27.19 | 3.70 |
| | | | | | 16QAM | 31.94 | 27.50 | 4.44 |
| | 15MHz | | 75 | 0 | QPSK | 30.55 | 27.01 | 3.54 |
| | | | | | 16QAM | 31.71 | 27.32 | 4.39 |
| | 20MHz | | 100 | 0 | QPSK | 30.52 | 26.97 | 3.55 |
| | | | | | 16QAM | 32.88 | 27.63 | 5.25 |
| 5G NR Band n7 | 5MHz | 2535.0 | 25 | 0 | BPSK | 30.49 | 26.24 | 4.25 |
| | | | | | 16QAM | 32.05 | 25.15 | 6.90 |
| | 10MHz | | 50 | 0 | BPSK | 30.69 | 26.24 | 4.45 |
| | | | | | 16QAM | 32.00 | 25.19 | 6.81 |
| | 15MHz | | 75 | 0 | BPSK | 30.77 | 26.32 | 4.45 |
| | | | | | 16QAM | 32.09 | 25.37 | 6.72 |
| | 20MHz | | 100 | 0 | BPSK | 30.68 | 26.36 | 4.32 |
| | | | | | 16QAM | 32.08 | 25.36 | 6.72 |
| | 25MHz | | 128 | 0 | BPSK | 30.41 | 26.39 | 4.02 |
| | | | | | 16QAM | 31.93 | 25.37 | 6.56 |
| | 30MHz | | 160 | 0 | BPSK | 30.43 | 26.02 | 4.41 |
| | | | | | 16QAM | 31.63 | 24.51 | 7.12 |
| | 35MHz | | 180 | 0 | BPSK | 30.04 | 25.59 | 4.45 |
| | | | | | 16QAM | 32.00 | 24.12 | 7.88 |
| | 40MHz | | 216 | 0 | BPSK | 30.59 | 25.75 | 4.84 |
| | | | | | 16QAM | 32.15 | 24.34 | 7.81 |
| Duty Cycle Correction Factor (dB) = | | | 0.00 | | | | | |
| Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor | | | | | | | | |

9.5.2. LTE BAND 12 AND 5G NR n12

| | | | |
|--------------------------|-------|-------------------|------------|
| Test Engineer ID: | 25780 | Test Date: | 2024-03-12 |
|--------------------------|-------|-------------------|------------|

| Band | Bandwidth (MHz) | Frequency (MHz) | RB Allocation | RB OffSet | Modulation | Conducted Power (dBm) | | Peak-to-Average Power Ratio (dB) |
|--|-----------------|-----------------|---------------|-----------|------------|-----------------------|---------|----------------------------------|
| | | | | | | Peak | Average | |
| Band 12 | 1.4MHz | 705.5 | 6 | 0 | QPSK | 31.32 | 27.65 | 3.67 |
| | | | | | 16QAM | 32.03 | 27.61 | 4.42 |
| | 3MHz | | 15 | 0 | QPSK | 31.38 | 27.64 | 3.74 |
| | | | | | 16QAM | 31.97 | 27.56 | 4.41 |
| | 5MHz | | 25 | 0 | QPSK | 31.29 | 27.64 | 3.65 |
| | | | | | 16QAM | 31.99 | 27.62 | 4.37 |
| 10MHz | 50 | 0 | QPSK | 31.28 | 27.55 | 3.73 | | |
| | | | 16QAM | 31.98 | 27.49 | 4.49 | | |
| 5G NR Band n12 | 5MHz | 705.5 | 25 | 0 | BPSK | 30.25 | 26.05 | 4.20 |
| | | | | | 16QAM | 31.45 | 24.68 | 6.77 |
| | 10MHz | | 50 | 0 | BPSK | 30.60 | 26.1 | 4.50 |
| | | | | | 16QAM | 31.25 | 24.55 | 6.70 |
| | 15MHz | | 75 | 0 | BPSK | 38.71 | 33.27 | 5.44 |
| | | | | | 16QAM | 31.03 | 24.28 | 6.75 |
| Duty Cycle Correction Factor (dB) = | | | 0.00 | | | | | |
| Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor | | | | | | | | |

9.5.3. LTE BAND 13

| | | | |
|--------------------------|-------|-------------------|------------|
| Test Engineer ID: | 32061 | Test Date: | 2024-03-12 |
|--------------------------|-------|-------------------|------------|

| Band | Bandwidth (MHz) | Frequency (MHz) | RB Allocation | RB OffSet | Modulation | Conducted Power (dBm) | | Peak-to-Average Power Ratio (dB) |
|--|-----------------|-----------------|---------------|-----------|------------|-----------------------|---------|----------------------------------|
| | | | | | | Peak | Average | |
| Band 13 | 5MHz | 782.0 | 25 | 0 | QPSK | 31.32 | 27.79 | 3.53 |
| | | | | | 16QAM | 32.08 | 27.7 | 4.38 |
| | 10MHz | | 50 | 0 | QPSK | 31.24 | 27.65 | 3.59 |
| | | | | | 16QAM | 31.84 | 27.56 | 4.28 |
| Duty Cycle Correction Factor (dB) = | | | 0.00 | | | | | |
| Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor | | | | | | | | |

9.5.4. LTE BAND 14 AND 5G NR n14

| | | | |
|--------------------------|-------|-------------------|------------|
| Test Engineer ID: | 32061 | Test Date: | 2024-03-12 |
|--------------------------|-------|-------------------|------------|

| Band | Bandwidth (MHz) | Frequency (MHz) | RB Allocation | RB OffSet | Modulation | Conducted Power (dBm) | | Peak-to-Average Power Ratio (dB) |
|--|-----------------|-----------------|---------------|-----------|------------|-----------------------|---------|----------------------------------|
| | | | | | | Peak | Average | |
| Band 14 | 5MHz | 793.0 | 25 | 0 | QPSK | 31.51 | 27.73 | 3.78 |
| | | | | | 16QAM | 32.22 | 27.65 | 4.57 |
| | 10MHz | | 50 | 0 | QPSK | 31.38 | 27.65 | 3.73 |
| | | | | | 16QAM | 31.98 | 27.49 | 4.49 |
| 5G NR Band n14 | 5MHz | 793.0 | 25 | 0 | BPSK | 30.26 | 26.07 | 4.19 |
| | | | | | 16QAM | 31.45 | 24.70 | 6.75 |
| | 10MHz | | 50 | 0 | BPSK | 30.44 | 26.04 | 4.40 |
| | | | | | 16QAM | 31.43 | 24.70 | 6.73 |
| Duty Cycle Correction Factor (dB) = | | | 0.00 | | | | | |
| Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor | | | | | | | | |

9.5.5. LTE BAND 17

| | | | |
|--------------------------|-------|-------------------|------------|
| Test Engineer ID: | 32061 | Test Date: | 2024-03-12 |
|--------------------------|-------|-------------------|------------|

| Band | Bandwidth (MHz) | Frequency (MHz) | RB Allocation | RB OffSet | Modulation | Conducted Power (dBm) | | Peak-to-Average Power Ratio (dB) |
|--|-----------------|-----------------|---------------|-----------|------------|-----------------------|---------|----------------------------------|
| | | | | | | Peak | Average | |
| Band 17 | 5MHz | 710.0 | 25 | 0 | QPSK | 31.29 | 27.72 | 3.57 |
| | | | | | 16QAM | 31.39 | 27.36 | 4.03 |
| | 10MHz | | 50 | 0 | QPSK | 31.05 | 27.60 | 3.45 |
| | | | | | 16QAM | 31.52 | 27.43 | 4.09 |
| Duty Cycle Correction Factor (dB) = | | | 0.00 | | | | | |
| Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor | | | | | | | | |

9.5.6. LTE BAND 25 AND 5G NR n25

| | | | |
|--------------------------|-------|-------------------|------------|
| Test Engineer ID: | 32061 | Test Date: | 2024-03-12 |
|--------------------------|-------|-------------------|------------|

| Band | Bandwidth (MHz) | Frequency (MHz) | RB Allocation | RB OffSet | Modulation | Conducted Power (dBm) | | Peak-to-Average Power Ratio (dB) |
|--|-----------------|-----------------|---------------|-----------|------------|-----------------------|---------|----------------------------------|
| | | | | | | Peak | Average | |
| Band 25 | 1.4MHz | 1882.5 | 6 | 0 | QPSK | 30.60 | 27.13 | 3.47 |
| | | | | | 16QAM | 31.19 | 26.98 | 4.21 |
| | 3MHz | | 15 | 0 | QPSK | 30.63 | 27.08 | 3.55 |
| | | | | | 16QAM | 31.54 | 27.04 | 4.50 |
| | 5MHz | | 25 | 0 | QPSK | 30.81 | 27.19 | 3.62 |
| | | | | | 16QAM | 31.97 | 27.16 | 4.81 |
| | 10MHz | | 50 | 0 | QPSK | 30.80 | 27.10 | 3.70 |
| | | | | | 16QAM | 31.34 | 26.95 | 4.39 |
| | 15MHz | | 75 | 0 | QPSK | 30.71 | 26.92 | 3.79 |
| | | | | | 16QAM | 31.17 | 26.82 | 4.35 |
| | 20MHz | | 100 | 0 | QPSK | 30.86 | 26.90 | 3.96 |
| | | | | | 16QAM | 32.39 | 27.10 | 5.29 |
| 5G NR Band n25 | 5MHz | 1882.5 | 25 | 0 | BPSK | 30.82 | 25.98 | 4.84 |
| | | | | | 16QAM | 39.67 | 31.72 | 7.95 |
| | 10MHz | | 50 | 0 | BPSK | 30.88 | 26.20 | 4.68 |
| | | | | | 16QAM | 31.84 | 24.81 | 7.03 |
| | 15MHz | | 75 | 0 | BPSK | 30.93 | 26.24 | 4.69 |
| | | | | | 16QAM | 31.80 | 24.87 | 6.93 |
| | 20MHz | | 100 | 0 | BPSK | 30.99 | 26.26 | 4.73 |
| | | | | | 16QAM | 31.74 | 24.88 | 6.86 |
| | 25MHz | | 128 | 0 | BPSK | 30.70 | 26.30 | 4.40 |
| | | | | | 16QAM | 31.81 | 24.95 | 6.86 |
| | 30MHz | | 160 | 0 | BPSK | 30.29 | 25.54 | 4.75 |
| | | | | | 16QAM | 30.85 | 23.93 | 6.92 |
| 35MHz | 180 | 0 | BPSK | 29.50 | 24.96 | 4.54 | | |
| | | | 16QAM | 31.01 | 22.71 | 8.30 | | |
| 40MHz | 216 | 0 | BPSK | 29.92 | 24.98 | 4.94 | | |
| | | | 16QAM | 31.59 | 23.49 | 8.10 | | |
| Duty Cycle Correction Factor (dB) = | | | 0.00 | | | | | |
| Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor | | | | | | | | |

9.5.7. LTE BAND 26 AND 5G NR n26 (FCC PART 90S)

| | | | |
|--------------------------|-------|-------------------|------------|
| Test Engineer ID: | 32061 | Test Date: | 2024-03-12 |
|--------------------------|-------|-------------------|------------|

| Band | Bandwidth (MHz) | Frequency (MHz) | RB Allocation | RB OffSet | Modulation | Conducted Power (dBm) | | Peak-to-Average Power Ratio (dB) |
|--|-----------------|-----------------|---------------|-----------|------------|-----------------------|---------|----------------------------------|
| | | | | | | Peak | Average | |
| Band 26 (FCC Part 90S) | 1.4MHz | 819.0 | 6 | 0 | QPSK | 32.97 | 27.57 | 5.40 |
| | | | | | 16QAM | 32.21 | 27.74 | 4.47 |
| | 3MHz | | 15 | 0 | QPSK | 31.30 | 27.78 | 3.52 |
| | | | | | 16QAM | 31.88 | 27.68 | 4.20 |
| | 5MHz | | 25 | 0 | QPSK | 31.25 | 27.78 | 3.47 |
| | | | | | 16QAM | 32.14 | 27.79 | 4.35 |
| 10MHz | 50 | 0 | QPSK | 31.27 | 27.74 | 3.53 | | |
| | | | 16QAM | 32.03 | 27.64 | 4.39 | | |
| 5G NR Band n26 (FCC Part 90S) | 5MHz | 25 | 0 | BPSK | 30.28 | 25.92 | 4.36 | |
| | | | | 16QAM | 31.40 | 24.59 | 6.81 | |
| | 10MHz | | | 50 | 0 | BPSK | 30.72 | 25.97 |
| 16QAM | | 31.73 | 24.59 | | | 7.14 | | |
| Duty Cycle Correction Factor (dB) = | | | 0.00 | | | | | |
| Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor | | | | | | | | |

9.5.8. LTE BAND 26 AND 5G NR n26 (FCC PART 22)

| | | | |
|--------------------------|-------|-------------------|------------|
| Test Engineer ID: | 32061 | Test Date: | 2024-03-12 |
|--------------------------|-------|-------------------|------------|

| Band | Bandwidth (MHz) | Frequency (MHz) | RB Allocation | RB OffSet | Modulation | Conducted Power (dBm) | | Peak-to-Average Power Ratio (dB) |
|--|-----------------|-----------------|---------------|-----------|------------|-----------------------|---------|----------------------------------|
| | | | | | | Peak | Average | |
| Band 26 (FCC Part 22) | 1.4MHz | 836.5 | 6 | 0 | QPSK | 32.30 | 27.82 | 4.48 |
| | | | | | 16QAM | 33.05 | 27.73 | 5.32 |
| | 3MHz | | 15 | 0 | QPSK | 31.28 | 27.78 | 3.50 |
| | | | | | 16QAM | 32.21 | 27.74 | 4.47 |
| | 5MHz | | 25 | 0 | QPSK | 31.49 | 27.89 | 3.60 |
| | | | | | 16QAM | 32.16 | 27.86 | 4.30 |
| 10MHz | 50 | 0 | QPSK | 31.33 | 27.80 | 3.53 | | |
| | | | 16QAM | 32.13 | 27.71 | 4.42 | | |
| 5G NR Band n26 (FCC Part 22) | 5MHz | 25 | 0 | BPSK | 38.27 | 33.03 | 5.24 | |
| | | | | 16QAM | 31.39 | 24.60 | 6.79 | |
| | 10MHz | 50 | 0 | BPSK | 30.64 | 25.9 | 4.74 | |
| | | | | 16QAM | 31.31 | 24.51 | 6.80 | |
| | 15MHz | 75 | 0 | BPSK | 30.76 | 25.99 | 4.77 | |
| | | | | 16QAM | 31.57 | 24.56 | 7.01 | |
| 20MHz | 100 | 0 | BPSK | 30.82 | 25.98 | 4.84 | | |
| | | | 16QAM | 31.81 | 24.61 | 7.20 | | |
| Duty Cycle Correction Factor (dB) = | | | 0.00 | | | | | |
| Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor | | | | | | | | |

9.5.9. LTE BAND 30 AND 5G NR N30

| | | | |
|--------------------------|-------|-------------------|------------|
| Test Engineer ID: | 32061 | Test Date: | 2024-03-12 |
|--------------------------|-------|-------------------|------------|

| Band | Bandwidth (MHz) | Frequency (MHz) | RB Allocation | RB OffSet | Modulation | Conducted Power (dBm) | | Peak-to-Average Power Ratio (dB) |
|--|-----------------|-----------------|---------------|-----------|------------|-----------------------|---------|----------------------------------|
| | | | | | | Peak | Average | |
| Band 30 | 5MHz | 2310.0 | 25 | 0 | QPSK | 30.41 | 26.9 | 3.51 |
| | | | | | 16QAM | 31.43 | 26.84 | 4.59 |
| | 10MHz | | 50 | 0 | QPSK | 30.29 | 26.75 | 3.54 |
| | | | | | 16QAM | 30.98 | 26.67 | 4.31 |
| 5G NR Band n30 | 5MHz | | 25 | 0 | BPSK | 30.88 | 26.66 | 4.22 |
| | | | | | 16QAM | 32.13 | 25.24 | 6.89 |
| | 10MHz | | 50 | 0 | BPSK | 31.27 | 26.62 | 4.65 |
| | | | | | 16QAM | 32.24 | 25.25 | 6.99 |
| Duty Cycle Correction Factor (dB) = | | | 0.00 | | | | | |
| Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor | | | | | | | | |

9.5.10. LTE BAND 41 AND 5G NR n41

| | | | |
|--------------------------|-------|-------------------|------------|
| Test Engineer ID: | 32061 | Test Date: | 2024-03-12 |
|--------------------------|-------|-------------------|------------|

| Band | Bandwidth (MHz) | Frequency (MHz) | RB Allocation | RB OffSet | Modulation | Conducted Power (dBm) | | Peak-to-Average Power Ratio (dB) |
|--|-----------------|-----------------|---------------|-----------|------------|-----------------------|---------|----------------------------------|
| | | | | | | Peak | Average | |
| Band 41 | 5MHz | 2593.0 | 25 | 0 | QPSK | 33.23 | 29.65 | *3.58 |
| | | | | | 16QAM | 34.37 | 30.01 | *4.36 |
| | 10MHz | | 50 | 0 | QPSK | 33.20 | 29.62 | *3.58 |
| | | | | | 16QAM | 34.48 | 29.81 | *4.67 |
| | 15MHz | | 75 | 0 | QPSK | 33.13 | 29.46 | *3.67 |
| | | | | | 16QAM | 34.11 | 29.72 | *4.39 |
| 20MHz | 100 | | 0 | QPSK | 33.02 | 29.46 | *3.56 | |
| | | | | 16QAM | 35.20 | 30.02 | *5.18 | |
| 5G NR Band n41 | 10MHz | | 24 | 0 | BPSK | 32.81 | 29.25 | 3.56 |
| | | | | | 16QAM | 33.56 | 27.8 | 5.76 |
| | 15MHz | | 36 | 0 | BPSK | 33.15 | 29.44 | 3.71 |
| | | | | | 16QAM | 33.84 | 28.08 | 5.76 |
| | 20MHz | 50 | 0 | BPSK | 32.96 | 29.48 | 3.48 | |
| | | | | 16QAM | 33.45 | 27.69 | 5.76 | |
| | 30MHz | 75 | 0 | BPSK | 34.05 | 29.69 | 4.36 | |
| | | | | 16QAM | 35.02 | 28.07 | 6.95 | |
| | 40MHz | 100 | 0 | BPSK | 33.09 | 28.53 | 4.56 | |
| | | | | 16QAM | 34.49 | 27.03 | 7.46 | |
| | 50MHz | 128 | 0 | BPSK | 33.32 | 27.28 | 6.04 | |
| | | | | 16QAM | 33.78 | 25.29 | 8.49 | |
| | 60MHz | 162 | 0 | BPSK | 32.24 | 26.24 | 6.00 | |
| | | | | 16QAM | 32.97 | 24.44 | 8.53 | |
| | 70MHz | 180 | 0 | BPSK | 31.96 | 25.91 | 6.05 | |
| | | | | 16QAM | 33.19 | 23.98 | 9.21 | |
| | 80MHz | 216 | 0 | BPSK | 31.49 | 24.9 | 6.59 | |
| | | | | 16QAM | 31.75 | 23.23 | 8.52 | |
| 90MHz | 243 | 0 | BPSK | 31.45 | 24.63 | 6.82 | | |
| | | | 16QAM | 32.18 | 22.76 | 9.42 | | |
| 100MHz | 270 | 0 | BPSK | 32.10 | 24.74 | 7.36 | | |
| | | | 16QAM | 32.40 | 23.18 | 9.22 | | |
| Duty Cycle Correction Factor (dB) = | | | 0.00 | | | | | |
| Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor | | | | | | | | |

9.5.11. LTE BAND 66 AND 5G NR n66

| | | | |
|--------------------------|-------|-------------------|------------|
| Test Engineer ID: | 32061 | Test Date: | 2024-03-12 |
|--------------------------|-------|-------------------|------------|

| Band | Bandwidth (MHz) | Frequency (MHz) | RB Allocation | RB OffSet | Modulation | Conducted Power (dBm) | | Peak-to-Average Power Ratio (dB) | | |
|--|-----------------|-----------------|---------------|-----------|------------|-----------------------|---------|----------------------------------|-------|------|
| | | | | | | Peak | Average | | | |
| Band 66 | 1.4MHz | 1745.0 | 6 | 0 | QPSK | 30.77 | 27.30 | 3.47 | | |
| | | | | | 16QAM | 31.50 | 27.19 | 4.31 | | |
| | 3MHz | | 15 | 0 | QPSK | 30.81 | 27.28 | 3.53 | | |
| | | | | | 16QAM | 31.63 | 27.23 | 4.40 | | |
| | 5MHz | | 25 | 0 | QPSK | 30.99 | 27.36 | 3.63 | | |
| | | | | | 16QAM | 31.85 | 27.37 | 4.48 | | |
| | 10MHz | | 50 | 0 | QPSK | 30.85 | 27.32 | 3.53 | | |
| | | | | | 16QAM | 31.37 | 27.20 | 4.17 | | |
| | 15MHz | | 75 | 0 | QPSK | 30.96 | 27.14 | 3.82 | | |
| | | | | | 16QAM | 31.29 | 26.89 | 4.40 | | |
| | 20MHz | | 100 | 0 | QPSK | 30.62 | 27.06 | 3.56 | | |
| | | | | | 16QAM | 32.18 | 27.10 | 5.08 | | |
| | 5G NR Band n66 | | 5MHz | 1745.0 | 25 | 0 | BPSK | 30.55 | 26.27 | 4.28 |
| | | | | | | | 16QAM | 31.77 | 24.95 | 6.82 |
| 10MHz | | 50 | 0 | | BPSK | 30.93 | 26.35 | 4.58 | | |
| | | | | | 16QAM | 31.78 | 24.99 | 6.79 | | |
| 15MHz | | 75 | 0 | | BPSK | 30.76 | 26.33 | 4.43 | | |
| | | | | | 16QAM | 31.79 | 24.97 | 6.82 | | |
| 20MHz | | 100 | 0 | | BPSK | 30.89 | 26.31 | 4.58 | | |
| | | | | | 16QAM | 31.73 | 24.94 | 6.79 | | |
| 25MHz | | 128 | 0 | | BPSK | 30.54 | 26.41 | 4.13 | | |
| | | | | | 16QAM | 31.71 | 25.03 | 6.68 | | |
| 30MHz | | 160 | 0 | | BPSK | 30.23 | 25.76 | 4.47 | | |
| | | | | | 16QAM | 31.46 | 24.29 | 7.17 | | |
| 35MHz | | 180 | 0 | | BPSK | 29.85 | 25.26 | 4.59 | | |
| | | | | | 16QAM | 31.76 | 23.75 | 8.01 | | |
| 40MHz | 216 | 0 | BPSK | 29.89 | 25.23 | 4.66 | | | | |
| | | | 16QAM | 31.46 | 23.78 | 7.68 | | | | |
| Duty Cycle Correction Factor (dB) = | | | 0.00 | | | | | | | |
| Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor | | | | | | | | | | |

9.5.12. 5G NR n70

| | | | |
|--------------------------|-------|-------------------|------------|
| Test Engineer ID: | 32061 | Test Date: | 2024-03-12 |
|--------------------------|-------|-------------------|------------|

| Band | Bandwidth (MHz) | Frequency (MHz) | RB Allocation | RB OffSet | Modulation | Conducted Power (dBm) | | Peak-to-Average Power Ratio (dB) |
|--|-----------------|-----------------|---------------|-----------|------------|-----------------------|---------|----------------------------------|
| | | | | | | Peak | Average | |
| 5G NR Band n70 | 5MHz | 1702.5 | 25 | 0 | BPSK | 30.55 | 26.36 | 4.19 |
| | | | | | 16QAM | 31.90 | 25.01 | 6.89 |
| | 10MHz | | 50 | 0 | BPSK | 30.80 | 26.37 | 4.43 |
| | | | | | 16QAM | 31.87 | 25.05 | 6.82 |
| | 15MHz | | 75 | 0 | BPSK | 31.07 | 26.45 | 4.62 |
| | | | | | 16QAM | 31.96 | 25.06 | 6.90 |
| Duty Cycle Correction Factor (dB) = | | | 0.00 | | | | | |
| Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor | | | | | | | | |

9.5.13. LTE BAND 71 AND 5G NR n71

| | | | |
|--------------------------|-------|-------------------|------------|
| Test Engineer ID: | 32061 | Test Date: | 2024-03-12 |
|--------------------------|-------|-------------------|------------|

| Band | Bandwidth (MHz) | Frequency (MHz) | RB Allocation | RB OffSet | Modulation | Conducted Power (dBm) | | Peak-to-Average Power Ratio (dB) |
|--|-----------------|-----------------|---------------|-----------|------------|-----------------------|---------|----------------------------------|
| | | | | | | Peak | Average | |
| Band 71 | 5MHz | 680.5/683 | 25 | 0 | QPSK | 31.12 | 27.43 | 3.69 |
| | | | | | 16QAM | 31.99 | 27.41 | 4.58 |
| | 10MHz | | 50 | 0 | QPSK | 30.89 | 27.37 | 3.52 |
| | | | | | 16QAM | 31.60 | 27.24 | 4.36 |
| | 15MHz | | 75 | 0 | QPSK | 31.06 | 27.19 | 3.87 |
| | | | | | 16QAM | 31.41 | 26.99 | 4.42 |
| 20MHz | 100 | | 0 | QPSK | 31.01 | 27.23 | 3.78 | |
| | | | | 16QAM | 32.23 | 27.34 | 4.89 | |
| 5G NR Band n71 | 5MHz | | 24 | 0 | BPSK | 30.44 | 26.04 | 4.40 |
| | | | | | 16QAM | 31.54 | 24.52 | 7.02 |
| | 10MHz | | 36 | 0 | BPSK | 29.97 | 25.8 | 4.17 |
| | | | | | 16QAM | 31.54 | 24.52 | 7.02 |
| | 15MHz | 50 | 0 | BPSK | 30.28 | 25.86 | 4.42 | |
| | | | | 16QAM | 31.42 | 24.49 | 6.93 | |
| | 20MHz | 75 | 0 | BPSK | 30.00 | 25.9 | 4.10 | |
| | | | | 16QAM | 31.46 | 24.51 | 6.95 | |
| Duty Cycle Correction Factor (dB) = | | | 0.00 | | | | | |
| Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor | | | | | | | | |

9.5.14. 5G NR n77 (FCC Part 27 3450-3550MHz)

| | | | |
|--------------------------|-------|-------------------|------------|
| Test Engineer ID: | 32061 | Test Date: | 2024-03-12 |
|--------------------------|-------|-------------------|------------|

| Band | Bandwidth (MHz) | Frequency (MHz) | RB Allocation | RB OffSet | Modulation | Conducted Power (dBm) | | Peak-to-Average Power Ratio (dB) |
|--------------------------------------|-----------------|-----------------|---------------|-----------|------------|-----------------------|---------|----------------------------------|
| | | | | | | Peak | Average | |
| 5G NR n77 (FCC Part 27 3450-3550MHz) | 10MHz | 3500.0 | 24 | 0 | BPSK | 33.95 | 29.7 | 4.25 |
| | | | | | 16QAM | 34.92 | 28.09 | 6.83 |
| | 15MHz | | 36 | 0 | BPSK | 33.98 | 29.72 | 4.26 |
| | | | | | 16QAM | 34.89 | 28.13 | 6.76 |
| | 20MHz | | 50 | 0 | BPSK | 33.87 | 29.71 | 4.16 |
| | | | | | 16QAM | 35.02 | 28.28 | 6.74 |
| | 25MHz | | 64 | 0 | BPSK | 33.93 | 29.77 | 4.16 |
| | | | | | 16QAM | 35.03 | 28.25 | 6.78 |
| | 30MHz | | 75 | 0 | BPSK | 33.63 | 29.24 | 4.39 |
| | | | | | 16QAM | 34.79 | 27.7 | 7.09 |
| | 40MHz | | 100 | 0 | BPSK | 32.83 | 28.27 | 4.56 |
| | | | | | 16QAM | 34.28 | 26.75 | 7.53 |
| | 50MHz | | 128 | 0 | BPSK | 32.90 | 26.98 | 5.92 |
| | | | | | 16QAM | 33.62 | 25.11 | 8.51 |
| | 60MHz | | 162 | 0 | BPSK | 31.75 | 25.96 | 5.79 |
| | | | | | 16QAM | 33.09 | 24.53 | 8.56 |
| | 70MHz | | 180 | 0 | BPSK | 32.14 | 25.38 | 6.76 |
| | | | | | 16QAM | 32.85 | 23.88 | 8.97 |
| | 80MHz | | 216 | 0 | BPSK | 31.11 | 24.56 | 6.55 |
| | | | | | 16QAM | 32.33 | 23.09 | 9.24 |
| 90MHz | 243 | 0 | BPSK | 31.18 | 24.12 | 7.06 | | |
| | | | 16QAM | 32.00 | 22.53 | 9.47 | | |
| 100MHz | 270 | 0 | BPSK | 31.61 | 24.94 | 6.67 | | |
| | | | 16QAM | 32.56 | 23.39 | 9.17 | | |

9.5.15. 5G NR n77 (FCC Part 27 3700-3980MHz)

| | | | |
|--------------------------|-------|-------------------|------------|
| Test Engineer ID: | 32061 | Test Date: | 2024-03-12 |
|--------------------------|-------|-------------------|------------|

| Band | Bandwidth (MHz) | Frequency (MHz) | RB Allocation | RB OffSet | Modulation | Conducted Power (dBm) | | Peak-to-Average Power Ratio (dB) |
|--|-----------------|-----------------|---------------|-----------|------------|-----------------------|---------|----------------------------------|
| | | | | | | Peak | Average | |
| 5G NR n77 (FCC Part 27 3700-3980MHz) | 10MHz | 3840.0 | 24 | 0 | BPSK | 33.76 | 29.47 | 4.29 |
| | | | | | 16QAM | 34.82 | 27.94 | 6.88 |
| | 15MHz | | 36 | 0 | BPSK | 33.96 | 29.68 | 4.28 |
| | | | | | 16QAM | 34.86 | 28.04 | 6.82 |
| | 20MHz | | 50 | 0 | BPSK | 33.79 | 29.65 | 4.14 |
| | | | | | 16QAM | 34.86 | 28.04 | 6.82 |
| | 25MHz | | 64 | 0 | BPSK | 33.71 | 29.61 | 4.10 |
| | | | | | 16QAM | 34.99 | 28.09 | 6.90 |
| | 30MHz | | 75 | 0 | BPSK | 31.80 | 27.23 | 4.57 |
| | | | | | 16QAM | 32.59 | 25.75 | 6.84 |
| | 40MHz | | 100 | 0 | BPSK | 30.57 | 26.12 | 4.45 |
| | | | | | 16QAM | 32.14 | 24.58 | 7.56 |
| | 50MHz | | 128 | 0 | BPSK | 30.64 | 24.8 | 5.84 |
| | | | | | 16QAM | 31.35 | 23.29 | 8.06 |
| | 60MHz | | 162 | 0 | BPSK | 30.14 | 23.76 | 6.38 |
| | | | | | 16QAM | 30.71 | 22.24 | 8.47 |
| | 70MHz | | 180 | 0 | BPSK | 29.14 | 23.25 | 5.89 |
| | | | | | 16QAM | 30.29 | 21.72 | 8.57 |
| | 80MHz | | 216 | 0 | BPSK | 28.58 | 22.43 | 6.15 |
| | | | | | 16QAM | 30.54 | 20.98 | 9.56 |
| 90MHz | 243 | 0 | BPSK | 28.42 | 21.99 | 6.43 | | |
| | | | 16QAM | 29.54 | 20.44 | 9.10 | | |
| 100MHz | 270 | 0 | BPSK | 29.85 | 22.92 | 6.93 | | |
| | | | 16QAM | 30.71 | 21.35 | 9.36 | | |
| Duty Cycle Correction Factor (dB) = | | | 0.00 | | | | | |
| Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor | | | | | | | | |

10. RADIATED TEST RESULTS

Radiated measurement using the Field Strength Method

Using the test configuration shown in Figure 6 below, we measure the radiated emissions directly from the EUT and convert the measured field strength or received power to ERP or EIRP, as required, for comparison to the applicable limits. As stated in 5.5.1 of ANSI C63.26-2015, the field strength measurement method using a test site validated to the requirements of ANSI C63.4 is an alternative to the substitution measurement method.

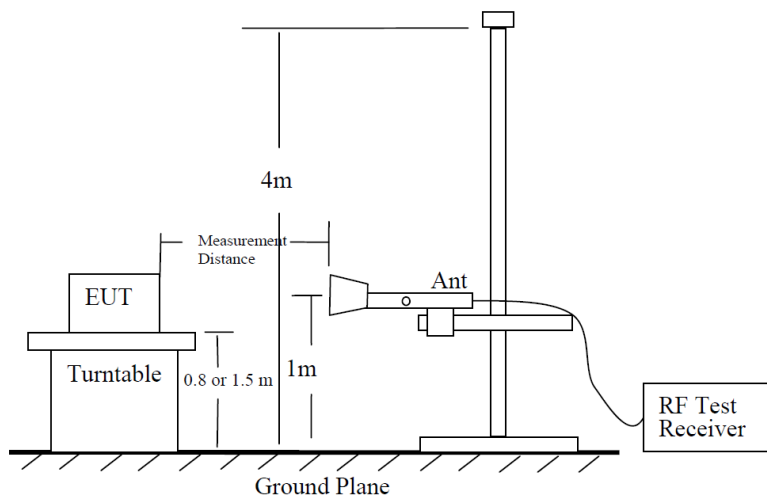


Figure 6—Test site-up for radiated ERP and/or EIRP measurements

Radiated Power Measurement Calculation According to ANSI C63.26-2015

- a) $E \text{ (dB}\mu\text{V/m)} = \text{Measured amplitude level (dB}\mu\text{V)} + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$.
- b) $E \text{ (dB}\mu\text{V/m)} = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$.
- c) $E \text{ (dB}\mu\text{V/m)} = \text{EIRP (dBm)} - 20\log(D) + 104.8$; where D is the measurement distance (in the far field region) in m.
- d) $\text{EIRP (dBm)} = E \text{ (dB}\mu\text{V/m)} + 20\log(D) - 104.8$; where D is the measurement distance (in the far field region) in m.

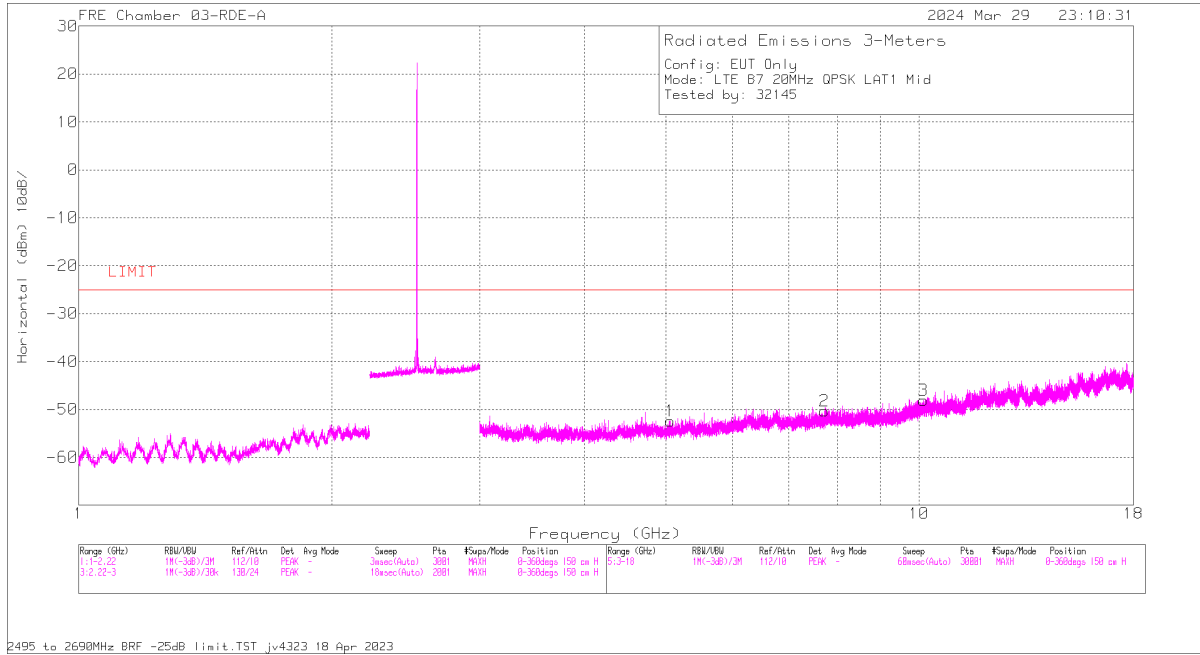
So, from d)

The measuring distance is usually at 3m, then $20 \cdot \log(3) = 9.5424$

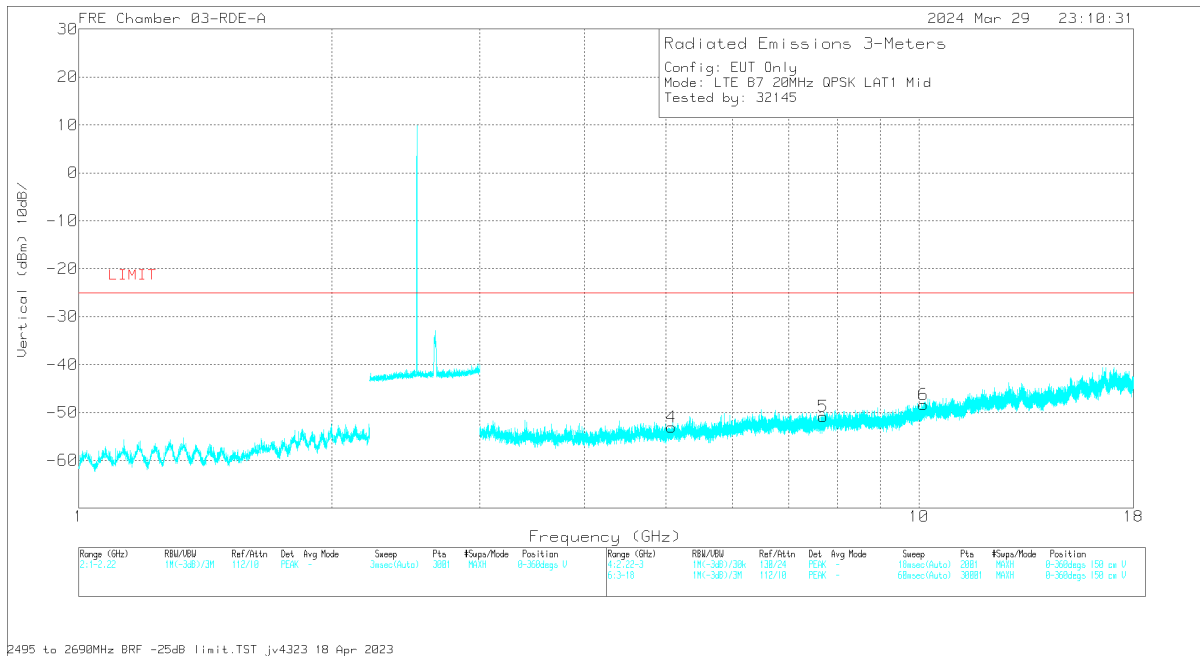
Then, $\text{EIRP (dBm)} = E \text{ (dB}\mu\text{V/m)} + 9.5424 - 104.8 = E \text{ (dB}\mu\text{V/m)} - 95.2576$

Note: Confidence check of each chamber is performed daily to see if any degradation from expected/normal reading reference data. Ambient check of each chamber is performed monthly.

Example Plot



Horizontal Polarity



Vertical Polarity

Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 200897 ACF 3m (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | LIMIT | Margin (dB) | Polarity |
|--------|-----------------|----------------------|-----|----------------------|---------|----------------|-------------------------|-------|-------------|----------|
| 1 | 5.059000 | 56.69 | Pk | 33.9 | -95.2 | -47.76 | -52.37 | -25 | -27.37 | H |
| 4 | 5.077000 | 56.13 | Pk | 33.9 | -95.2 | -47.87 | -53.04 | -25 | -28.04 | V |
| 5 | 7.687500 | 54.10 | Pk | 35.7 | -95.2 | -45.43 | -50.83 | -25 | -25.83 | V |
| 2 | 7.713500 | 54.38 | Pk | 35.8 | -95.2 | -45.36 | -50.38 | -25 | -25.38 | H |
| 3 | 10.124500 | 55.59 | Pk | 37.4 | -95.2 | -45.83 | -48.04 | -25 | -23.04 | H |
| 6 | 10.129000 | 55.34 | Pk | 37.4 | -95.2 | -45.86 | -48.32 | -25 | -23.32 | V |

Pk - Peak detector

10.1. FIELD STRENGTH OF SPURIOUS RADIATION, ANT1

TEST PROCEDURE

KDB 971168 D01 /D02

All tests below 1GHz were done with a Resolution Bandwidth of 100kHz, and a Video Bandwidth of 300kHz.

RESULTS

10.1.1. LTE BAND 7 AND 5G NR n7

LIMITS

FCC: §27.53 (m)

At least 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.

QPSK LTE BAND 7 (20.0MHZ BANDWIDTH)

| | |
|------------|----------|
| Project #: | 14982489 |
|------------|----------|

| | |
|----------------|-------------------|
| Date: | 2024-03-29 |
| Test Engineer: | 32145 |
| Configuration: | EUT only |
| Mode | LTE B7 QPSK 20MHz |
| Chamber #: | 03-RDE-A |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 200897 ACF 3m (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | LIMIT | Margin (dB) | Polarity |
|------------------------------|----------------------|-----|----------------------|---------|----------------|-------------------------|-------|-------------|----------|
| Low Channel, 2510MHz | | | | | | | | | |
| 5.010000 | 56.30 | Pk | 33.9 | -95.2 | -47.37 | -52.37 | -25 | -27.37 | H |
| 5.013000 | 55.53 | Pk | 33.9 | -95.2 | -47.38 | -53.15 | -25 | -28.15 | V |
| 7.496500 | 53.34 | Pk | 35.7 | -95.2 | -45.30 | -51.46 | -25 | -26.46 | V |
| 7.506500 | 55.11 | Pk | 35.7 | -95.2 | -45.26 | -49.65 | -25 | -24.65 | H |
| 10.057500 | 55.46 | Pk | 37.3 | -95.2 | -45.47 | -47.91 | -25 | -22.91 | H |
| 10.066500 | 54.92 | Pk | 37.3 | -95.2 | -45.65 | -48.63 | -25 | -23.63 | V |
| Mid Channel, 2535MHz | | | | | | | | | |
| 5.059000 | 56.69 | Pk | 33.9 | -95.2 | -47.76 | -52.37 | -25 | -27.37 | H |
| 5.077000 | 56.13 | Pk | 33.9 | -95.2 | -47.87 | -53.04 | -25 | -28.04 | V |
| 7.687500 | 54.10 | Pk | 35.7 | -95.2 | -45.43 | -50.83 | -25 | -25.83 | V |
| 7.713500 | 54.38 | Pk | 35.8 | -95.2 | -45.36 | -50.38 | -25 | -25.38 | H |
| 10.124500 | 55.59 | Pk | 37.4 | -95.2 | -45.83 | -48.04 | -25 | -23.04 | H |
| 10.129000 | 55.34 | Pk | 37.4 | -95.2 | -45.86 | -48.32 | -25 | -23.32 | V |
| High Channel, 2560MHz | | | | | | | | | |
| 5.123000 | 56.97 | Pk | 34.1 | -95.2 | -48.04 | -52.17 | -25 | -27.17 | V |
| 5.141000 | 56.40 | Pk | 34.1 | -95.2 | -47.88 | -52.58 | -25 | -27.58 | H |
| 7.599500 | 55.58 | Pk | 35.7 | -95.2 | -45.95 | -49.87 | -25 | -24.87 | V |
| 7.622500 | 55.13 | Pk | 35.7 | -95.2 | -45.90 | -50.27 | -25 | -25.27 | H |
| 10.228500 | 54.91 | Pk | 37.5 | -95.2 | -44.68 | -47.47 | -25 | -22.47 | V |
| 10.241500 | 54.65 | Pk | 37.5 | -95.2 | -44.50 | -47.55 | -25 | -22.55 | H |

BPSK 5G NR n7 (40.0MHZ BANDWIDTH)

| | |
|----------------|---------------------|
| Project #: | 14982484 |
| Date: | 2024-04-04 |
| Test Engineer: | 32545 |
| Configuration: | EUT only |
| Mode | 5G NR n7 BPSK 40MHz |
| Chamber #: | 02-RDE-E |

| Frequency (MHz) | Meter Reading (dBuV) | Det | 206807 ACF (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | LIMIT | Margin (dB) | Polarity |
|------------------------------|----------------------|-----|-------------------|---------|----------------|-------------------------|-------|-------------|----------|
| Low Channel, 2520MHz | | | | | | | | | |
| 5.040000 | 54.36 | Pk | 34.0 | -95.2 | -47.47 | -54.31 | -25 | -29.31 | H |
| 7.560000 | 52.25 | Pk | 35.7 | -95.2 | -45.55 | -52.80 | -25 | -27.80 | H |
| 5.040000 | 53.31 | Pk | 34.0 | -95.2 | -47.47 | -55.36 | -25 | -30.36 | V |
| 7.560000 | 51.35 | Pk | 35.7 | -95.2 | -45.55 | -53.70 | -25 | -28.70 | V |
| 10.080500 | 51.59 | Pk | 37.4 | -95.2 | -45.28 | -51.49 | -25 | -26.49 | H |
| 10.080500 | 54.77 | Pk | 37.4 | -95.2 | -45.28 | -48.31 | -25 | -23.31 | V |
| Mid Channel, 2535MHz | | | | | | | | | |
| 5.070000 | 54.29 | Pk | 34.1 | -95.2 | -47.60 | -54.41 | -25 | -29.41 | H |
| 7.605500 | 53.16 | Pk | 35.8 | -95.2 | -45.54 | -51.78 | -25 | -26.78 | H |
| 10.875000 | 49.85 | Pk | 37.8 | -95.2 | -42.10 | -49.65 | -25 | -24.65 | H |
| 5.070000 | 53.75 | Pk | 34.1 | -95.2 | -47.60 | -54.95 | -25 | -29.95 | V |
| 7.605500 | 53.19 | Pk | 35.8 | -95.2 | -45.54 | -51.75 | -25 | -26.75 | V |
| 10.875000 | 50.19 | Pk | 37.8 | -95.2 | -42.10 | -49.31 | -25 | -24.31 | V |
| High Channel, 2550MHz | | | | | | | | | |
| 5.100500 | 54.23 | Pk | 34.2 | -95.2 | -47.50 | -54.27 | -25 | -29.27 | H |
| 7.651000 | 51.39 | Pk | 35.8 | -95.2 | -45.61 | -53.62 | -25 | -28.62 | H |
| 5.100500 | 55.15 | Pk | 34.2 | -95.2 | -47.50 | -53.35 | -25 | -28.35 | V |
| 7.651000 | 53.01 | Pk | 35.8 | -95.2 | -45.61 | -52.00 | -25 | -27.00 | V |
| 14.499000 | 50.46 | Pk | 39.3 | -95.2 | -42.71 | -48.15 | -25 | -23.15 | V |
| 14.501000 | 50.89 | Pk | 39.3 | -95.2 | -42.74 | -47.75 | -25 | -22.75 | H |

10.1.2. LTE BAND 12 AND 5G NR n12

LIMITS

FCC: §27.53 (g)

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.

QPSK LTE BAND 12 (10.0MHZ BANDWIDTH)

| | |
|----------------|--------------------|
| Project #: | 14982484 |
| Date: | 2024-03-26 |
| Test Engineer: | 32145 |
| Configuration: | EUT only |
| Mode | LTE B12 QPSK 10MHz |
| Chamber #: | 03-RDE-A |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 200897 ACF 3m (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | LIMIT | Margin (dB) | Polarity |
|------------------------------|----------------------|-----|----------------------|---------|----------------|-------------------------|-------|-------------|----------|
| Low Channel, 704MHz | | | | | | | | | |
| 1.4162500 | 58.98 | Pk | 28.1 | -95.2 | -49.16 | -57.28 | -13 | -44.28 | V |
| 1.416700 | 62.00 | Pk | 28.1 | -95.2 | -49.16 | -54.26 | -13 | -41.26 | H |
| 2.105200 | 59.14 | Pk | 31.4 | -95.2 | -49.67 | -54.33 | -13 | -41.33 | H |
| 2.125000 | 62.32 | Pk | 31.5 | -95.2 | -49.94 | -51.32 | -13 | -38.32 | V |
| 2.817550 | 57.03 | Pk | 32.2 | -95.2 | -48.32 | -54.29 | -13 | -41.29 | V |
| 2.822050 | 56.63 | Pk | 32.2 | -95.2 | -48.16 | -54.53 | -13 | -41.53 | H |
| Mid Channel, 707.5MHz | | | | | | | | | |
| 1.423000 | 62.04 | Pk | 28.0 | -95.2 | -49.27 | -54.43 | -13 | -41.43 | V |
| 1.423900 | 60.67 | Pk | 28.0 | -95.2 | -49.25 | -55.78 | -13 | -42.78 | H |
| 2.108350 | 58.45 | Pk | 31.4 | -95.2 | -49.91 | -55.26 | -13 | -42.26 | H |
| 2.111500 | 58.50 | Pk | 31.4 | -95.2 | -49.81 | -55.11 | -13 | -42.11 | V |
| 2.821600 | 55.89 | Pk | 32.2 | -95.2 | -48.12 | -55.23 | -13 | -42.23 | V |
| 2.825200 | 56.05 | Pk | 32.2 | -95.2 | -48.47 | -55.42 | -13 | -42.42 | H |
| High Channel, 711MHz | | | | | | | | | |
| 1.415350 | 58.76 | Pk | 28.1 | -95.2 | -49.16 | -57.50 | -13 | -44.50 | H |
| 1.430875 | 71.07 | Pk | 28.0 | -95.2 | -49.30 | -45.43 | -13 | -32.43 | V |
| 2.145700 | 60.40 | Pk | 31.5 | -95.2 | -50.06 | -53.36 | -13 | -40.36 | V |
| 2.146600 | 59.66 | Pk | 31.5 | -95.2 | -50.04 | -54.08 | -13 | -41.08 | H |
| 2.82925 | 56.57 | Pk | 32.2 | -95.2 | -48.20 | -54.63 | -13 | -41.63 | V |
| 2.846800 | 58.13 | Pk | 32.2 | -95.2 | -48.45 | -53.32 | -13 | -40.32 | H |

BPSK 5G NR n12 (15.0MHZ BANDWIDTH)

| | |
|----------------|----------------------|
| Project #: | 14982484 |
| Date: | 2024-04-04 |
| Test Engineer: | 32545 |
| Configuration: | EUT only |
| Mode | 5G NR n12 BPSK 15MHz |
| Chamber #: | 02-RDE-E |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 41112 ACF (dB/m) - 3mH | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | LIMIT | Margin (dB) | Polarity |
|-------------------------------|----------------------|-----|------------------------|---------|----------------|-------------------------|-------|-------------|----------|
| Low Channel, 706.5MHz | | | | | | | | | |
| 1.414000 | 56.26 | Pk | 28.6 | -95.2 | -48.82 | -59.16 | -13 | -46.16 | H |
| 2.826550 | 55.44 | Pk | 32.3 | -95.2 | -48.46 | -55.92 | -13 | -42.92 | H |
| 1.414000 | 56.42 | Pk | 28.6 | -95.2 | -48.82 | -59.00 | -13 | -46.00 | V |
| 2.826550 | 55.11 | Pk | 32.3 | -95.2 | -48.46 | -56.25 | -13 | -43.25 | V |
| 2.119600 | 54.61 | Pk | 31.7 | -95.2 | -48.82 | -57.71 | -13 | -44.71 | H |
| 2.119600 | 57.47 | Pk | 31.7 | -95.2 | -48.82 | -54.85 | -13 | -41.85 | V |
| Mid Channel, 707.5MHz | | | | | | | | | |
| 1.415350 | 55.64 | Pk | 28.6 | -95.2 | -48.83 | -59.79 | -13 | -46.79 | H |
| 2.830150 | 54.95 | Pk | 32.3 | -95.2 | -48.55 | -56.50 | -13 | -43.50 | H |
| 1.415350 | 55.38 | Pk | 28.6 | -95.2 | -48.83 | -60.05 | -13 | -47.05 | V |
| 2.829700 | 56.86 | Pk | 32.3 | -95.2 | -48.55 | -54.59 | -13 | -41.59 | V |
| 2.122300 | 54.82 | Pk | 31.7 | -95.2 | -48.82 | -57.50 | -13 | -44.50 | H |
| 2.122300 | 56.03 | Pk | 31.7 | -95.2 | -48.82 | -56.29 | -13 | -43.29 | V |
| High Channel, 708.5MHz | | | | | | | | | |
| 1.418050 | 56.36 | Pk | 28.6 | -95.2 | -48.84 | -59.08 | -13 | -46.08 | H |
| 2.834200 | 56.07 | Pk | 32.3 | -95.2 | -48.49 | -55.32 | -13 | -42.32 | H |
| 1.418050 | 54.85 | Pk | 28.6 | -95.2 | -48.84 | -60.59 | -13 | -47.59 | V |
| 2.834200 | 54.39 | Pk | 32.3 | -95.2 | -48.49 | -57.00 | -13 | -44.00 | V |
| 2.125450 | 54.40 | Pk | 31.7 | -95.2 | -48.76 | -57.86 | -13 | -44.86 | H |
| 2.125450 | 55.09 | Pk | 31.7 | -95.2 | -48.76 | -57.17 | -13 | -44.17 | V |

10.1.3. LTE BAND 13

LIMITS

FCC: §27.53

(c) 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.

(f) Emissions in 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.

QPSK LTE BAND 13 (10.0MHZ BANDWIDTH)

| | |
|----------------|--------------------|
| Project #: | 14982484 |
| Date: | 2024-06-26 |
| Test Engineer: | 32934 |
| Configuration: | EUT only |
| Mode | LTE B13 QPSK 10MHz |
| Chamber #: | 01-RDE-A |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 81886 ACF 3m (dB/m) | HPF 1.2GHz T1737 1-18GHz (dB) (dB) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | LIMIT | Margin (dB) | Polarity |
|----------------------------|----------------------|-----|---------------------|------------------------------------|---------|----------------|-------------------------|-------|-------------|----------|
| Mid Channel, 782MHz | | | | | | | | | | |
| 1.579867 | 40.75 | Pk | 28.3 | .8 | -95.2 | -27.81 | -53.16 | -40 | -13.16 | V |
| 1.581333 | 40.85 | Pk | 28.3 | .8 | -95.2 | -27.87 | -53.12 | -40 | -13.12 | H |
| 2.351334 | 38.26 | Pk | 32.0 | .5 | -95.2 | -26.03 | -50.47 | -13 | -37.47 | V |
| 2.352800 | 38.56 | Pk | 32.0 | .5 | -95.2 | -26.02 | -50.16 | -13 | -37.16 | H |
| 3.118400 | 37.64 | Pk | 32.9 | .7 | -95.2 | -25.24 | -49.20 | -13 | -36.20 | V |
| 3.125734 | 38.08 | Pk | 32.9 | .6 | -95.2 | -25.37 | -48.99 | -13 | -35.99 | H |

Emissions in the GPS band were wideband emissions therefore the -40dBm/MHz limit was used.

10.1.4. LTE BAND 14 AND 5G NR n14

LIMITS

FCC: §90.543 Emission Limitations. (Band 14)

(e) For operations in the 758-768 MHz and the 788-798 MHz bands, 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:

(3) On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least $43 + 10 \log (P)$ dB.

(f) For operations in the 758-775 MHz and 788-805 MHz bands, all emissions including harmonics in 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. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation

QPSK LTE BAND 14 (10.0MHZ BANDWIDTH)

| | |
|----------------|--------------------|
| Project #: | 14982484 |
| Date: | 2024-06-26 |
| Test Engineer: | 32934 |
| Configuration: | EUT only |
| Mode | LTE B14 QPSK 10MHz |
| Chamber #: | 01-RDE-A |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 81886 ACF 3m (dB/m) | HPF 1.2GHz T1737 1-18GHz (dB) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | LIMIT | Margin (dB) | Polarity |
|----------------------------|----------------------|-----|---------------------|-------------------------------|---------|----------------|-------------------------|-------|-------------|----------|
| Mid Channel, 793MHz | | | | | | | | | | |
| 1.585245 | 40.69 | Pk | 28.3 | .8 | -95.2 | -27.98 | -53.39 | -40 | -13.39 | H |
| 1.589156 | 41.12 | Pk | 28.4 | .8 | -95.2 | -27.92 | -52.80 | -40 | -12.80 | V |
| 2.374311 | 38.33 | Pk | 32.1 | .5 | -95.2 | -25.93 | -50.20 | -13 | -37.20 | H |
| 2.376756 | 39.53 | Pk | 32.1 | .5 | -95.2 | -25.98 | -49.05 | -13 | -36.05 | V |
| 3.107645 | 38.74 | Pk | 32.9 | .7 | -95.2 | -25.10 | -47.96 | -13 | -34.96 | V |
| 3.178534 | 37.52 | Pk | 33.0 | .5 | -95.2 | -25.25 | -49.43 | -13 | -36.43 | H |

Emissions in the GPS band were wideband emissions therefore the -40dBm/MHz limit was used.

BPSK 5G NR n14 (10.0MHZ BANDWIDTH)

| | |
|----------------|----------------------|
| Project #: | 14982484 |
| Date: | 2024-06-28 |
| Test Engineer: | 106018 |
| Configuration: | EUT only |
| Mode | 5G NR n14 BPSK 10MHz |
| Chamber #: | 01-RDE-A |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 81886 ACF 3m (dB/m) | HPF 1.2GHz T1737 1-18GHz (dB) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | LIMIT | Margin (dB) | Polarity |
|----------------------------|----------------------|-----|---------------------|-------------------------------|---------|----------------|-------------------------|-------|-------------|----------|
| Mid Channel, 793MHz | | | | | | | | | | |
| 1.584756 | 40.41 | Pk | 28.3 | .8 | -95.2 | -28.00 | -53.69 | -40 | -13.69 | V |
| 1.588178 | 40.24 | Pk | 28.4 | .8 | -95.2 | -27.82 | -53.58 | -40 | -13.58 | H |
| 2.287289 | 39.07 | Pk | 31.7 | .5 | -95.2 | -26.43 | -50.36 | -13 | -37.36 | H |
| 2.301467 | 38.72 | Pk | 31.8 | .6 | -95.2 | -26.25 | -50.33 | -13 | -37.33 | V |
| 3.164845 | 36.87 | Pk | 33.0 | .5 | -95.2 | -25.40 | -50.23 | -13 | -37.23 | H |
| 3.173645 | 37.36 | Pk | 33.0 | .5 | -95.2 | -25.24 | -49.58 | -13 | -36.58 | V |

Emissions in the GPS band were wideband emissions therefore the -40dBm/MHz limit was used.

10.1.5. LTE BAND 17

LIMITS

FCC: §27.53 (g)

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.

QPSK LTE BAND 17 (10.0MHZ BANDWIDTH)

| | |
|----------------|--------------------|
| Project #: | 14982484 |
| Date: | 2024-03-28 |
| Test Engineer: | 32145 |
| Configuration: | EUT only |
| Mode | LTE B17 QPSK 10MHz |
| Chamber #: | 03-RDE-A |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 200897 ACF (dB/m) 3mH | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | LIMIT | Margin (dB) | Polarity |
|-----------------------------|----------------------|-----|-----------------------|---------|----------------|-------------------------|-------|-------------|----------|
| Low Channel, 709MHz | | | | | | | | | |
| 1.426931 | 71.76 | Pk | 28.0 | -95.2 | -49.27 | -44.71 | -13 | -31.71 | V |
| 1.427050 | 59.33 | Pk | 28.0 | -95.2 | -49.27 | -57.14 | -13 | -44.14 | H |
| 2.140300 | 60.72 | Pk | 31.5 | -95.2 | -49.87 | -52.85 | -13 | -39.85 | H |
| 2.158750 | 59.32 | Pk | 31.4 | -95.2 | -49.90 | -54.38 | -13 | -41.38 | V |
| 2.828800 | 56.64 | Pk | 32.2 | -95.2 | -48.21 | -54.57 | -13 | -41.57 | H |
| 2.833750 | 56.56 | Pk | 32.2 | -95.2 | -48.57 | -55.01 | -13 | -42.01 | V |
| Mid Channel, 710MHz | | | | | | | | | |
| 1.415800 | 58.70 | Pk | 28.1 | -95.2 | -49.15 | -57.55 | -13 | -44.55 | H |
| 1.428829 | 71.84 | Pk | 28.0 | -95.2 | -49.24 | -44.60 | -13 | -31.60 | V |
| 2.143000 | 59.59 | Pk | 31.5 | -95.2 | -49.94 | -54.05 | -13 | -41.05 | H |
| 2.143000 | 60.17 | Pk | 31.5 | -95.2 | -49.94 | -53.47 | -13 | -40.47 | V |
| 2.828350 | 56.62 | Pk | 32.2 | -95.2 | -48.23 | -54.61 | -13 | -41.61 | V |
| 2.839600 | 56.82 | Pk | 32.2 | -95.2 | -48.39 | -54.57 | -13 | -41.57 | H |
| High Channel, 711MHz | | | | | | | | | |
| 1.421200 | 58.51 | Pk | 28.0 | -95.2 | -49.18 | -57.87 | -13 | -44.87 | H |
| 1.430828 | 69.67 | Pk | 28.0 | -95.2 | -49.30 | -46.83 | -13 | -33.83 | V |
| 2.146150 | 61.45 | Pk | 31.5 | -95.2 | -50.05 | -52.3 | -13 | -39.30 | V |
| 2.147950 | 59.03 | Pk | 31.5 | -95.2 | -49.95 | -54.62 | -13 | -41.62 | H |
| 2.836450 | 57.37 | Pk | 32.2 | -95.2 | -48.45 | -54.08 | -13 | -41.08 | H |
| 2.863450 | 57.61 | Pk | 32.3 | -95.2 | -48.65 | -53.94 | -13 | -40.94 | V |

10.1.6. LTE BAND 25 AND 5G NR n25

LIMITS

FCC: §24.238(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.

QPSK LTE BAND 25 (20.0MHZ BANDWIDTH)

| | |
|----------------|-------------------|
| Project #: | 14982484 |
| Date: | 2024-07-31 |
| Test Engineer: | 106018 |
| Configuration: | EUT only |
| Mode | LTE 25 QPSK 20MHz |
| Chamber #: | 01-RDE-A |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 81886 ACF 3m (dB/m) | EIRP CF | Amp/Cbl (dB) | Corrected Reading (dBm) | Harmonics limit | Margin (dB) | Polarity |
|-------------------------------|----------------------|-----|---------------------|---------|--------------|-------------------------|-----------------|-------------|----------|
| Low Channel, 1860MHz | | | | | | | | | |
| 3.741563 | 35.14 | Pk | 33.1 | -95.2 | -23.46 | -50.42 | -13 | -37.42 | H |
| 3.745781 | 34.91 | Pk | 33.1 | -95.2 | -23.4 | -50.59 | -13 | -37.59 | V |
| 5.553281 | 32.86 | Pk | 34.5 | -95.2 | -20.77 | -48.61 | -13 | -35.61 | V |
| 5.565938 | 32.82 | Pk | 34.5 | -95.2 | -20.41 | -48.29 | -13 | -35.29 | H |
| 7.380469 | 31.33 | Pk | 35.6 | -95.2 | -17.65 | -45.92 | -13 | -32.92 | H |
| 7.491094 | 32.01 | Pk | 35.7 | -95.2 | -18.50 | -45.99 | -13 | -32.99 | V |
| Mid Channel, 1882.5MHz | | | | | | | | | |
| 3.780000 | 35.34 | Pk | 33.2 | -95.2 | -23.8 | -50.46 | -13 | 150 | V |
| 3.803438 | 36.39 | Pk | 33.2 | -95.2 | -23.9 | -49.51 | -13 | 150 | H |
| 5.655000 | 32.58 | Pk | 34.6 | -95.2 | -20.4 | -48.42 | -13 | 150 | V |
| 5.662031 | 33.36 | Pk | 34.6 | -95.2 | -20.6 | -47.84 | -13 | 150 | H |
| 7.542188 | 30.71 | Pk | 35.7 | -95.2 | -17.6 | -46.39 | -13 | 150 | H |
| 7.561406 | 30.39 | Pk | 35.7 | -95.2 | -17.5 | -46.61 | -13 | 150 | V |
| High Channel, 1905MHz | | | | | | | | | |
| 3.777188 | 35.15 | Pk | 33.2 | -95.2 | -23.8 | -50.65 | -13 | -37.65 | V |
| 3.789375 | 35.52 | Pk | 33.2 | -95.2 | -23.9 | -50.38 | -13 | -37.38 | H |
| 5.655938 | 32.9 | Pk | 34.6 | -95.2 | -20.4 | -48.10 | -13 | -35.10 | V |
| 5.688281 | 33.97 | Pk | 34.6 | -95.2 | -21 | -47.63 | -13 | -34.63 | H |
| 7.627969 | 30.64 | Pk | 35.8 | -95.2 | -16.8 | -45.56 | -13 | -32.56 | H |
| 7.644844 | 30.33 | Pk | 35.8 | -95.2 | -17.08 | -46.15 | -13 | -33.15 | V |

BPSK 5G NR n25 (40.0MHZ BANDWIDTH)

| | |
|------------|----------|
| Project #: | 14982484 |
|------------|----------|

| | |
|----------------|----------------------|
| Date: | 2024-04-04 |
| Test Engineer: | 32545 |
| Configuration: | EUT only |
| Mode | 5G NR n25 BPSK 40MHz |
| Chamber #: | 02-RDE-E |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 206807 ACF (dB/m) | EIRP CF | Amp/Cbl (dB) | Corrected Reading (dBm) | LIMIT | Margin (dB) | Polarity |
|-------------------------------|----------------------|-----|-------------------|---------|--------------|-------------------------|-------|-------------|----------|
| Low Channel, 1870MHz | | | | | | | | | |
| 3.700500 | 53.44 | Pk | 33.5 | -95.2 | -45.79 | -54.05 | -13 | -41.05 | H |
| 7.401000 | 52.75 | Pk | 35.6 | -95.2 | -45.61 | -52.46 | -13 | -39.46 | H |
| 3.700000 | 52.67 | Pk | 33.5 | -95.2 | -45.8 | -54.83 | -13 | -41.83 | V |
| 7.405500 | 52.49 | Pk | 35.6 | -95.2 | -45.74 | -52.85 | -13 | -39.85 | V |
| 5.500500 | 54.53 | Pk | 34.4 | -95.2 | -46.81 | -53.08 | -13 | -40.08 | H |
| 5.500500 | 51.98 | Pk | 34.4 | -95.2 | -46.81 | -55.63 | -13 | -42.63 | V |
| Mid Channel, 1882.5MHz | | | | | | | | | |
| 3.725500 | 51.64 | Pk | 33.3 | -95.2 | -45.86 | -56.12 | -13 | -43.12 | H |
| 3.725500 | 52.26 | Pk | 33.3 | -95.2 | -45.86 | -55.50 | -13 | -42.50 | V |
| 7.449500 | 52.01 | Pk | 35.6 | -95.2 | -45.43 | -53.02 | -13 | -40.02 | V |
| 7.450000 | 53.12 | Pk | 35.6 | -95.2 | -45.42 | -51.90 | -13 | -38.90 | H |
| 5.587000 | 51.91 | Pk | 34.5 | -95.2 | -46.59 | -55.38 | -13 | -42.38 | H |
| 5.587000 | 53.76 | Pk | 34.5 | -95.2 | -46.59 | -53.53 | -13 | -40.53 | V |
| High Channel, 1895MHz | | | | | | | | | |
| 3.791000 | 51.89 | Pk | 33.4 | -95.2 | -45.64 | -55.55 | -13 | -42.55 | H |
| 7.580500 | 51.04 | Pk | 35.7 | -95.2 | -45.38 | -53.84 | -13 | -40.84 | H |
| 3.791000 | 52.33 | Pk | 33.4 | -95.2 | -45.64 | -55.11 | -13 | -42.11 | V |
| 7.580500 | 52.89 | Pk | 35.7 | -95.2 | -45.38 | -51.99 | -13 | -38.99 | V |
| 5.685500 | 52.19 | Pk | 34.5 | -95.2 | -46.43 | -54.94 | -13 | -41.94 | H |
| 5.685500 | 52.53 | Pk | 34.5 | -95.2 | -46.43 | -54.60 | -13 | -41.60 | V |

10.1.7. LTE BAND 26 (FCC PART 90S)

LIMITS

FCC: §90.691

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.

QPSK LTE BAND 26 (10.0MHZ BANDWIDTH)

| | |
|----------------|--------------------|
| Project #: | 149828484 |
| Date: | 2024-04-28 |
| Test Engineer: | 32145 |
| Configuration: | EUT only |
| Mode | LTE B26 QPSK 10MHz |
| Chamber #: | 03-RDE-A |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 200897 ACF (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | LIMIT | Margin (dB) | Polarity |
|----------------------------|----------------------|-----|-------------------|---------|----------------|-------------------------|-------|-------------|----------|
| Mid Channel, 819MHz | | | | | | | | | |
| 1.646834 | 70.22 | Pk | 28.7 | -95.2 | -49.55 | -45.83 | -13 | -32.83 | V |
| 1.646901 | 66.13 | Pk | 28.7 | -95.2 | -49.55 | -49.92 | -13 | -36.92 | H |
| 2.454850 | 59.57 | Pk | 32.1 | -95.2 | -49.34 | -52.87 | -13 | -39.87 | V |
| 2.470150 | 60.13 | Pk | 32.1 | -95.2 | -49.15 | -52.12 | -13 | -39.12 | H |
| 3.264400 | 55.78 | Pk | 32.7 | -95.2 | -46.55 | -53.27 | -13 | -40.27 | H |
| 3.281050 | 54.92 | Pk | 32.7 | -95.2 | -46.34 | -53.92 | -13 | -40.92 | V |

BPSK 5G NR n26 (10.0MHZ BANDWIDTH)

| | |
|----------------|----------------------|
| Project #: | 1482484 |
| Date: | 2024-03-13 |
| Test Engineer: | 19226 |
| Configuration: | EUT only |
| Mode | 5G NR n26 BPSK 10MHz |
| Chamber #: | 04-RDE-R |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 200897 ACF (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | LIMIT | Margin (dB) | Polarity |
|----------------------------|----------------------|-----|-------------------|---------|----------------|-------------------------|-------|-------------|----------|
| Mid Channel, 819MHz | | | | | | | | | |
| 1.629087 | 68.06 | Pk | 28.5 | -95.2 | -49.48 | -48.12 | -13 | -35.12 | H |
| 1.629207 | 72.78 | Pk | 28.5 | -95.2 | -49.48 | -43.40 | -13 | -30.40 | V |
| 2.462500 | 59.95 | Pk | 32.1 | -95.2 | -49.25 | -52.40 | -13 | -39.40 | H |
| 2.468800 | 58.36 | Pk | 32.1 | -95.2 | -49.08 | -53.82 | -13 | -40.82 | V |
| 3.245500 | 55.01 | Pk | 32.7 | -95.2 | -46.47 | -53.96 | -13 | -40.96 | V |
| 3.252700 | 55.55 | Pk | 32.7 | -95.2 | -46.57 | -53.52 | -13 | -40.52 | H |

10.1.8. LTE BAND 26 AND 5G NR n26 (FCC PART 22)

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.

QPSK LTE BAND 26 (10.0MHZ BANDWIDTH)

| | |
|----------------|--------------------|
| Project #: | 14982484 |
| Date: | 2024-08-01 |
| Test Engineer: | 106018 |
| Configuration: | EUT only |
| Mode | LTE B26 QPSK 10MHz |
| Chamber #: | 03-RDE-A |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 81886 ACF 3m (dB/m) | HPF 1.2GHz T1737 1-18GHz (dB) | EIRP CF | Amp/Cbl (dB) | Corrected Reading (dBm) | Limit | Margin (dB) | Polarity |
|-------------------------------|----------------------|-----|---------------------|-------------------------------|---------|--------------|-------------------------|-------|-------------|----------|
| Low Channel, 829.0MHz | | | | | | | | | | |
| 1.689867 | 39.99 | Pk | 29.3 | .7 | -95.2 | -27.39 | -52.60 | -13 | -39.60 | H |
| 1.698178 | 39.50 | Pk | 29.4 | .6 | -95.2 | -27.62 | -53.32 | -13 | -40.32 | V |
| 2.473556 | 38.97 | Pk | 32.5 | .5 | -95.2 | -26.14 | -49.37 | -13 | -36.37 | H |
| 2.480400 | 39.30 | Pk | 32.5 | .5 | -95.2 | -26.10 | -49.00 | -13 | -36.00 | V |
| 3.277289 | 37.78 | Pk | 33.0 | .8 | -95.2 | -24.73 | -48.35 | -13 | -35.35 | H |
| 3.281200 | 36.88 | Pk | 33.0 | .8 | -95.2 | -24.80 | -49.32 | -13 | -36.32 | V |
| Mid Channel, 836.5MHz | | | | | | | | | | |
| 1.688400 | 40.23 | Pk | 29.3 | .7 | -95.2 | -27.42 | -52.39 | -13 | -39.39 | H |
| 1.689867 | 40.09 | Pk | 29.3 | .7 | -95.2 | -27.39 | -52.50 | -13 | -39.50 | V |
| 2.529778 | 37.94 | Pk | 32.5 | .8 | -95.2 | -26.00 | -49.96 | -13 | -36.96 | V |
| 2.534667 | 38.24 | Pk | 32.5 | .7 | -95.2 | -25.90 | -49.66 | -13 | -36.66 | H |
| 3.329600 | 37.95 | Pk | 32.8 | .6 | -95.2 | -25.10 | -48.95 | -13 | -35.95 | H |
| 3.339378 | 37.18 | Pk | 32.8 | .5 | -95.2 | -25.10 | -49.82 | -13 | -36.82 | V |
| High Channel, 844.0MHz | | | | | | | | | | |
| 1.669490 | 44.06 | Pk | 29.1 | .7 | -95.2 | -27.65 | -48.99 | -13 | -35.99 | H |
| 1.676178 | 39.39 | Pk | 29.1 | .7 | -95.2 | -27.5 | -53.51 | -13 | -40.51 | V |
| 2.543467 | 37.89 | Pk | 32.5 | .6 | -95.2 | -25.8 | -50.01 | -13 | -37.01 | V |
| 2.545911 | 38.50 | Pk | 32.5 | .6 | -95.2 | -25.9 | -49.50 | -13 | -36.50 | H |
| 3.372134 | 36.78 | Pk | 32.8 | .6 | -95.2 | -24.91 | -49.93 | -13 | -36.93 | H |
| 3.372623 | 36.46 | Pk | 32.8 | .6 | -95.2 | -24.96 | -50.30 | -13 | -37.30 | V |

BPSK 5G NR n26 (20.0MHZ BANDWIDTH)

| | |
|----------------|----------------------|
| Project #: | 14982484 |
| Date: | 2024-03-28 |
| Test Engineer: | 32145 |
| Configuration: | EUT only |
| Mode | 5G NR n25 BPSK 20MHz |
| Chamber #: | 03-RDE-A |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 200897 ACF (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | LIMIT | Margin (dB) | Polarity |
|------------------------------|----------------------|-----|-------------------|---------|----------------|-------------------------|-------|-------------|----------|
| Low Channel, 834MHz | | | | | | | | | |
| 1.676235 | 68.07 | Pk | 29.0 | -95.2 | -49.60 | -47.73 | -13 | -34.73 | H |
| 1.676286 | 70.86 | Pk | 29.0 | -95.2 | -49.60 | -44.94 | -13 | -31.94 | V |
| 2.514441 | 64.14 | Pk | 32.2 | -95.2 | -48.51 | -47.37 | -13 | -34.37 | H |
| 2.514525 | 62.63 | Pk | 32.2 | -95.2 | -48.51 | -48.88 | -13 | -35.88 | V |
| 3.327400 | 55.16 | Pk | 32.6 | -95.2 | -46.85 | -54.29 | -13 | -41.29 | H |
| 3.32785 | 55.83 | Pk | 32.6 | -95.2 | -46.88 | -53.65 | -13 | -40.65 | V |
| Mid Channel, 836.5MHz | | | | | | | | | |
| 1.658800 | 57.88 | Pk | 28.8 | -95.2 | -49.59 | -58.11 | -13 | -45.11 | V |
| 1.661950 | 59.29 | Pk | 28.8 | -95.2 | -49.50 | -56.61 | -13 | -43.61 | H |
| 2.498950 | 58.19 | Pk | 32.2 | -95.2 | -48.88 | -53.69 | -13 | -40.69 | V |
| 2.508850 | 58.55 | Pk | 32.2 | -95.2 | -48.71 | -53.16 | -13 | -40.16 | H |
| 3.344950 | 56.02 | Pk | 32.6 | -95.2 | -46.82 | -53.40 | -13 | -40.40 | H |
| 3.344950 | 54.96 | Pk | 32.6 | -95.2 | -46.82 | -54.46 | -13 | -41.46 | V |
| Mid Channel, 839.0MHz | | | | | | | | | |
| 1.696150 | 62.58 | Pk | 29.3 | -95.2 | -49.53 | -52.85 | -13 | -39.85 | H |
| 1.696150 | 62.00 | Pk | 29.3 | -95.2 | -49.53 | -53.43 | -13 | -40.43 | V |
| 2.544400 | 60.31 | Pk | 32.2 | -95.2 | -48.59 | -51.28 | -13 | -38.28 | H |
| 2.544400 | 58.84 | Pk | 32.2 | -95.2 | -48.59 | -52.75 | -13 | -39.75 | V |
| 3.373750 | 56.24 | Pk | 32.6 | -95.2 | -47.15 | -53.51 | -13 | -40.51 | H |
| 3.389050 | 56.52 | Pk | 32.6 | -95.2 | -47.03 | -53.11 | -13 | -40.11 | V |

10.1.9. LTE BAND 30 AND 5G NR n30

LIMITS

FCC: §27.53 (a)

For mobile and portable stations operating in the 2305-2315 MHz: by a factor of not less than 43 + 10 log (P) dB on all frequencies between 2360 and 2365 MHz, and not less than 70 + 10 log (P) dB above 2365 MHz.

QPSK LTE BAND 30 (10.0MHZ BANDWIDTH)

| | |
|----------------|--------------------|
| Project #: | 14982484 |
| Date: | 2024-06-19 |
| Test Engineer: | 32145 |
| Configuration: | EUT only |
| Mode | LTE B30 QPSK 10MHz |
| Chamber #: | 05-RDE-F |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 200897 ACF 3m (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | LIMIT | Margin (dB) | Polarity |
|----------------------|----------------------|-----|----------------------|---------|----------------|-------------------------|-------|-------------|----------|
| Mid Channel, 2310MHz | | | | | | | | | |
| 4.633628 | 45.97 | RMS | 34.0 | -95.2 | -48.90 | -64.13 | -40 | -24.13 | H |
| 6.921736 | 44.13 | RMS | 35.6 | -95.2 | -46.73 | -62.20 | -40 | -22.20 | H |
| 9.235178 | 43.00 | RMS | 36.3 | -95.2 | -45.50 | -61.40 | -40 | -21.40 | H |
| 4.637681 | 45.97 | RMS | 34.0 | -95.2 | -48.89 | -64.12 | -40 | -24.12 | V |
| 6.914643 | 44.03 | RMS | 35.6 | -95.2 | -46.75 | -62.32 | -40 | -22.32 | V |
| 9.268111 | 43.06 | RMS | 36.3 | -95.2 | -45.81 | -61.65 | -40 | -21.65 | V |

BPSK 5G NR n30 (10.0MHZ BANDWIDTH)

| | |
|----------------|----------------------|
| Project #: | 14982484 |
| Date: | 2024-06-27 |
| Test Engineer: | 106018 |
| Configuration: | EUT only |
| Mode | 5G NR n30 BPSK 10MHz |
| Chamber #: | 01-RDE-A |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 81886 ACF 3m (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | LIMIT | Margin (dB) | Polarity |
|-----------------------------|----------------------|-----|---------------------|---------|----------------|-------------------------|-------|-------------|----------|
| Mid Channel, 2310MHz | | | | | | | | | |
| 4.607813 | 24.02 | RMS | 34.0 | -95.2 | -23.2 | -60.38 | -40 | -20.38 | V |
| 4.626563 | 24.14 | RMS | 34.0 | -95.2 | -23.2 | -60.26 | -40 | -20.26 | H |
| 6.930469 | 20.36 | RMS | 35.7 | -95.2 | -19.0 | -58.14 | -40 | -18.14 | H |
| 6.939844 | 20.41 | RMS | 35.7 | -95.2 | -19.0 | -58.09 | -40 | -18.09 | V |
| 9.224531 | 20.27 | RMS | 36.1 | -95.2 | -16.9 | -55.73 | -40 | -15.73 | H |
| 9.234375 | 20.30 | RMS | 36.1 | -95.2 | -16.8 | -55.60 | -40 | -15.60 | V |

10.1.10. LTE BAND 41 AND 5G NR n41

LIMITS

FCC: §27.53 (m)

At least 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.

QPSK LTE BAND 41 (20.0MHZ BANDWIDTH)

| | |
|----------------|--------------------|
| Project #: | 14982484 |
| Date: | 2024-04-01 |
| Test Engineer: | 32145 |
| Configuration: | EUT only |
| Mode | LTE B41 QPSK 20MHz |
| Chamber #: | 03-RDE-A |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 200897 ACF 3m(dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | LIMIT | Margin (dB) | Polarity |
|------------------------------|----------------------|-----|---------------------|---------|----------------|-------------------------|-------|-------------|----------|
| Low Channel, 2506MHz | | | | | | | | | |
| 5.011500 | 55.72 | Pk | 33.9 | -95.2 | -47.33 | -52.91 | -25 | -27.91 | H |
| 7.527500 | 54.86 | Pk | 35.7 | -95.2 | -45.30 | -49.94 | -25 | -24.94 | H |
| 4.990000 | 56.04 | Pk | 33.9 | -95.2 | -47.34 | -52.60 | -25 | -27.60 | V |
| 7.472500 | 53.52 | Pk | 35.7 | -95.2 | -45.54 | -51.52 | -25 | -26.52 | V |
| 10.045000 | 54.89 | Pk | 37.3 | -95.2 | -45.38 | -48.39 | -25 | -23.39 | V |
| 10.046000 | 55.79 | Pk | 37.3 | -95.2 | -45.39 | -47.50 | -25 | -22.50 | H |
| Mid Channel, 2593MHz | | | | | | | | | |
| 5.183500 | 56.20 | Pk | 34.1 | -95.2 | -47.26 | -52.16 | -25 | -27.16 | V |
| 5.196250 | 56.33 | Pk | 34.1 | -95.2 | -47.46 | -52.23 | -25 | -27.23 | H |
| 7.775500 | 54.60 | Pk | 35.8 | -95.2 | -45.20 | -50.00 | -25 | -25.00 | H |
| 7.818000 | 54.29 | Pk | 35.8 | -95.2 | -45.29 | -50.40 | -25 | -25.40 | V |
| 10.364000 | 54.46 | Pk | 37.5 | -95.2 | -45.23 | -48.47 | -25 | -23.47 | V |
| 10.382000 | 54.75 | Pk | 37.6 | -95.2 | -45.08 | -47.93 | -25 | -22.93 | H |
| High Channel, 2680MHz | | | | | | | | | |
| 5.376000 | 54.44 | Pk | 34.4 | -95.2 | -47.48 | -53.84 | -25 | -28.84 | H |
| 8.039500 | 51.24 | Pk | 35.7 | -95.2 | -44.66 | -52.92 | -25 | -27.92 | H |
| 10.717000 | 51.35 | Pk | 37.7 | -95.2 | -44.67 | -50.82 | -25 | -25.82 | H |
| 5.376000 | 52.85 | Pk | 34.4 | -95.2 | -47.48 | -55.43 | -25 | -30.43 | V |
| 10.706000 | 51.46 | Pk | 37.7 | -95.2 | -44.62 | -50.66 | -25 | -25.66 | V |
| 8.022500 | 52.00 | Pk | 35.7 | -95.2 | -44.71 | -52.21 | -25 | -27.21 | V |

BPSK LTE BAND n41 (100.0MHZ BANDWIDTH)

| | |
|----------------|-----------------------|
| Project #: | 14982484 |
| Date: | 2024-04-04 |
| Test Engineer: | 32545 |
| Configuration: | EUT only |
| Mode | 5G NR n41 BPSK 100MHz |
| Chamber #: | 02-RDE-E |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 206807 ACF 3m(dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | LIMIT | Margin (dB) | Polarity |
|------------------------------|----------------------|-----|---------------------|---------|----------------|-------------------------|-------|-------------|----------|
| Low Channel, 2546MHz | | | | | | | | | |
| 5.186500 | 53.56 | Pk | 34.4 | -95.2 | -47.27 | -54.51 | -25 | -29.51 | H |
| 5.188000 | 53.81 | Pk | 34.4 | -95.2 | -47.29 | -54.28 | -25 | -29.28 | V |
| 7.778500 | 52.54 | Pk | 35.9 | -95.2 | -45.38 | -52.14 | -25 | -27.14 | V |
| 7.779000 | 51.93 | Pk | 35.9 | -95.2 | -45.37 | -52.74 | -25 | -27.74 | H |
| 10.372000 | 51.14 | Pk | 37.6 | -95.2 | -44.22 | -50.68 | -25 | -25.68 | H |
| 10.372000 | 52.33 | Pk | 37.6 | -95.2 | -44.22 | -49.49 | -25 | -24.49 | V |
| Mid Channel, 2593MHz | | | | | | | | | |
| 5.186500 | 53.10 | Pk | 34.4 | -95.2 | -47.27 | -54.97 | -25 | -29.97 | H |
| 5.186500 | 52.69 | Pk | 34.4 | -95.2 | -47.27 | -55.38 | -25 | -30.38 | V |
| 7.779000 | 52.03 | Pk | 35.9 | -95.2 | -45.37 | -52.64 | -25 | -27.64 | H |
| 7.779000 | 51.86 | Pk | 35.9 | -95.2 | -45.37 | -52.81 | -25 | -27.81 | V |
| 10.373000 | 51.61 | Pk | 37.6 | -95.2 | -44.21 | -50.20 | -25 | -25.20 | H |
| 10.373000 | 52.10 | Pk | 37.6 | -95.2 | -44.21 | -49.71 | -25 | -24.71 | V |
| High Channel, 2640MHz | | | | | | | | | |
| 10.875500 | 49.85 | Pk | 37.8 | -95.2 | -42.10 | -49.65 | -25 | -24.65 | H |
| 10.875500 | 49.14 | Pk | 37.8 | -95.2 | -42.10 | -50.36 | -25 | -25.36 | V |
| 5.280000 | 53.48 | Pk | 34.5 | -95.2 | -47.13 | -54.35 | -25 | -29.35 | V |
| 5.280500 | 53.81 | Pk | 34.5 | -95.2 | -47.14 | -54.03 | -25 | -29.03 | H |
| 14.501000 | 51.56 | Pk | 39.3 | -95.2 | -42.74 | -47.08 | -25 | -22.08 | H |
| 14.501000 | 50.71 | Pk | 39.3 | -95.2 | -42.74 | -47.93 | -25 | -22.93 | V |

10.1.11. LTE BAND 66 AND 5G NR n66

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.

QPSK LTE BAND 66 (20.0MHZ BANDWIDTH)

| | |
|------------|----------|
| Project #: | 14982484 |
|------------|----------|

| | |
|----------------|--------------------|
| Date: | 2024-03-29 |
| Test Engineer: | 32145 |
| Configuration: | EUT only |
| Mode | LTE B66 QPSK 20MHz |
| Chamber #: | 03-RDE-A |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 200897 ACF 3m(dB/m) | EIRP CF | Amp/Cbl (dB) | Corrected Reading (dBm) | LIMIT | Margin (dB) | Polarity |
|------------------------------|----------------------|-----|---------------------|---------|--------------|-------------------------|-------|-------------|----------|
| Low Channel, 1720MHz | | | | | | | | | |
| 3.464000 | 55.06 | Pk | 32.6 | -95.2 | -46.55 | -54.09 | -13 | -41.09 | H |
| 3.472500 | 55.82 | Pk | 32.7 | -95.2 | -46.62 | -53.30 | -13 | -40.30 | V |
| 5.133147 | 71.38 | Pk | 34.1 | -95.2 | -47.47 | -37.19 | -13 | -24.19 | V |
| 5.133227 | 70.87 | Pk | 34.1 | -95.2 | -47.47 | -37.70 | -13 | -24.70 | H |
| 6.810000 | 54.12 | Pk | 35.6 | -95.2 | -44.86 | -50.34 | -13 | -37.34 | V |
| 6.836000 | 54.33 | Pk | 35.6 | -95.2 | -44.96 | -50.23 | -13 | -37.23 | H |
| Mid Channel, 1745MHz | | | | | | | | | |
| 3.493000 | 55.57 | Pk | 32.7 | -95.2 | -46.62 | -53.55 | -13 | -40.55 | H |
| 3.498500 | 55.32 | Pk | 32.8 | -95.2 | -46.56 | -53.64 | -13 | -40.64 | V |
| 5.236000 | 56.18 | Pk | 34.2 | -95.2 | -47.71 | -52.53 | -13 | -39.53 | V |
| 5.249000 | 55.95 | Pk | 34.3 | -95.2 | -47.49 | -52.44 | -13 | -39.44 | H |
| 6.957500 | 54.78 | Pk | 35.7 | -95.2 | -45.98 | -50.70 | -13 | -37.70 | H |
| 6.978000 | 54.46 | Pk | 35.7 | -95.2 | -45.88 | -50.92 | -13 | -37.92 | V |
| High Channel, 1770MHz | | | | | | | | | |
| 3.555000 | 55.36 | Pk | 32.9 | -95.2 | -46.74 | -53.68 | -13 | -40.68 | V |
| 3.568000 | 56.35 | Pk | 32.9 | -95.2 | -46.99 | -52.94 | -13 | -39.94 | H |
| 5.306000 | 55.10 | Pk | 34.4 | -95.2 | -47.52 | -53.22 | -13 | -40.22 | V |
| 5.325000 | 56.06 | Pk | 34.4 | -95.2 | -47.45 | -52.19 | -13 | -39.19 | H |
| 7.068500 | 54.29 | Pk | 35.6 | -95.2 | -45.01 | -50.32 | -13 | -37.32 | H |
| 7.077500 | 53.73 | Pk | 35.6 | -95.2 | -44.97 | -50.84 | -13 | -37.84 | V |

BPSK 5G NR n66 (40.0MHZ BANDWIDTH)

| | |
|----------------|----------------------|
| Project #: | 14982484 |
| Date: | 2024-04-05 |
| Test Engineer: | 32545 |
| Configuration: | EUT only |
| Mode | 5G NR n66 BPSK 40MHz |
| Chamber #: | 02-RDE-E |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 206807_ACF (dB/m) | EIRP CF | Amp/Cbl (dB) | Corrected Reading (dBm) | Harmonics limit | Margin (dB) | Polarity |
|------------------------------|----------------------|-----|-------------------|---------|--------------|-------------------------|-----------------|-------------|----------|
| Low Channel, 1730MHz | | | | | | | | | |
| 5.130000 | 53.04 | Pk | 34.2 | -95.2 | -47.23 | -55.19 | -13 | -42.19 | H |
| 5.130000 | 53.50 | Pk | 34.2 | -95.2 | -47.23 | -54.73 | -13 | -41.73 | V |
| 3.420500 | 54.48 | Pk | 32.8 | -95.2 | -45.53 | -53.45 | -13 | -40.45 | H |
| 3.420500 | 53.39 | Pk | 32.8 | -95.2 | -45.53 | -54.54 | -13 | -41.54 | V |
| 6.840500 | 49.71 | Pk | 35.6 | -95.2 | -44.38 | -54.27 | -13 | -41.27 | H |
| 6.840500 | 50.94 | Pk | 35.6 | -95.2 | -44.38 | -53.04 | -13 | -40.04 | V |
| Mid Channel, 1745MHz | | | | | | | | | |
| 3.450500 | 51.97 | Pk | 32.8 | -95.2 | -45.47 | -55.90 | -13 | -42.90 | V |
| 3.451000 | 52.13 | Pk | 32.8 | -95.2 | -45.50 | -55.77 | -13 | -42.77 | H |
| 5.175000 | 55.13 | Pk | 34.3 | -95.2 | -47.19 | -52.96 | -13 | -39.96 | H |
| 5.175000 | 53.52 | Pk | 34.3 | -95.2 | -47.19 | -54.57 | -13 | -41.57 | V |
| 6.901000 | 51.33 | Pk | 35.7 | -95.2 | -44.52 | -52.69 | -13 | -39.69 | H |
| 6.901000 | 50.35 | Pk | 35.7 | -95.2 | -44.52 | -53.67 | -13 | -40.67 | V |
| High Channel, 1760MHz | | | | | | | | | |
| 3.480000 | 52.35 | Pk | 32.8 | -95.2 | -45.27 | -55.32 | -13 | -42.32 | H |
| 3.480000 | 52.28 | Pk | 32.8 | -95.2 | -45.27 | -55.39 | -13 | -42.39 | V |
| 5.220500 | 55.39 | Pk | 34.5 | -95.2 | -47.18 | -52.49 | -13 | -39.49 | H |
| 5.220500 | 53.03 | Pk | 34.5 | -95.2 | -47.18 | -54.85 | -13 | -41.85 | V |
| 6.960500 | 51.02 | Pk | 35.7 | -95.2 | -44.57 | -53.05 | -13 | -40.05 | H |
| 6.960500 | 51.46 | Pk | 35.7 | -95.2 | -44.57 | -52.61 | -13 | -39.61 | V |

10.1.12. 5G NR n70

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.

BPSK 5G NR n70 (15.0MHZ BANDWIDTH based on 5G NR n70 maximum frequency range)

| | |
|----------------|----------------------|
| Project #: | 14982484 |
| Date: | 2024-04-09 |
| Test Engineer: | 32545 |
| Configuration: | EUT only |
| Mode | 5G NR n70 BPSK 15MHz |
| Chamber #: | 02-RDE-E |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 206807 ACF (dB/m) | EIRP CF | Amp/Cbl (dB) | Corrected Reading (dBm) | LIMIT | Margin (dB) | Polarity |
|------------------------|----------------------|-----|-------------------|---------|--------------|-------------------------|-------|-------------|----------|
| Mid Channel, 1702.5MHz | | | | | | | | | |
| 5.085500 | 54.65 | Pk | 34.1 | -95.2 | -47.32 | -53.77 | -13 | -40.77 | H |
| 5.086000 | 55.68 | Pk | 34.1 | -95.2 | -47.32 | -52.74 | -13 | -39.74 | V |
| 3.391000 | 53.19 | Pk | 32.9 | -95.2 | -46.01 | -55.12 | -13 | -42.12 | H |
| 3.391000 | 53.59 | Pk | 32.9 | -95.2 | -46.01 | -54.72 | -13 | -41.72 | V |
| 6.780500 | 52.08 | Pk | 35.5 | -95.2 | -44.23 | -51.85 | -13 | -38.85 | H |
| 6.780500 | 50.93 | Pk | 35.5 | -95.2 | -44.23 | -53.00 | -13 | -40.00 | V |

10.1.13. LTE BAND 71 AND 5G NR n71

LIMITS

FCC: §27.53 (g)

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.

QPSK LTE BAND 71 (20.0MHZ BANDWIDTH)

| | |
|----------------|--------------------|
| Project #: | 14982484 |
| Date: | 2024-04-3 |
| Test Engineer: | 45258 |
| Configuration: | EUT only |
| Mode | LTE B71 QPSK 20MHz |
| Chamber #: | 03-RDE-A |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 200897 ACF 3m (dB/m) | EIRP CF | Amp/Cbl (dB) | Corrected Reading (dBm) | Harmonics limit | Margin (dB) | Polarity |
|----------------------------|----------------------|-----|----------------------|---------|--------------|-------------------------|-----------------|-------------|----------|
| Low Channel, 673MHz | | | | | | | | | |
| 1.317700 | 59.90 | Pk | 28.8 | -95.2 | -49.64 | -56.14 | -13 | -43.14 | V |
| 1.328050 | 62.36 | Pk | 28.8 | -95.2 | -49.66 | -53.70 | -13 | -40.700 | H |
| 2.067850 | 58.80 | Pk | 31.4 | -95.2 | -49.36 | -54.36 | -13 | -41.36 | V |
| 2.084950 | 57.64 | Pk | 31.4 | -95.2 | -49.47 | -55.63 | -13 | -42.63 | H |
| 2.667700 | 58.93 | Pk | 32.2 | -95.2 | -49.03 | -53.10 | -13 | -40.10 | V |
| 2.679400 | 58.12 | Pk | 32.2 | -95.2 | -49.14 | -54.02 | -13 | -41.02 | H |
| Low Channel, 683MHz | | | | | | | | | |
| 1.362250 | 60.29 | Pk | 28.5 | -95.2 | -49.35 | -55.76 | -13 | -42.76 | V |
| 1.366300 | 59.28 | Pk | 28.5 | -95.2 | -49.32 | -56.74 | -13 | -43.74 | H |
| 2.035900 | 58.04 | Pk | 31.4 | -95.2 | -49.5 | -55.26 | -13 | -42.26 | V |
| 2.039050 | 58.25 | Pk | 31.4 | -95.2 | -49.42 | -54.97 | -13 | -41.97 | H |
| 2.724850 | 58.92 | Pk | 32.2 | -95.2 | -48.54 | -52.62 | -13 | -39.62 | V |
| 2.728900 | 59.09 | Pk | 32.2 | -95.2 | -48.19 | -52.10 | -13 | -39.10 | H |
| Low Channel, 688MHz | | | | | | | | | |
| 1.350550 | 59.13 | Pk | 28.6 | -95.2 | -49.43 | -56.90 | -13 | -43.90 | V |
| 1.358650 | 60.92 | Pk | 28.6 | -95.2 | -49.36 | -55.04 | -13 | -42.04 | H |
| 2.060200 | 58.88 | Pk | 31.4 | -95.2 | -49.35 | -54.27 | -13 | -41.27 | V |
| 2.068750 | 57.97 | Pk | 31.4 | -95.2 | -49.34 | -55.17 | -13 | -42.17 | H |
| 2.746900 | 58.25 | Pk | 32.2 | -95.2 | -47.97 | -52.72 | -13 | -39.72 | H |
| 2.755450 | 56.64 | Pk | 32.2 | -95.2 | -47.94 | -54.30 | -13 | -41.30 | V |

BPSK 5G NR n71 (20.0MHZ BANDWIDTH)

| | |
|----------------|----------------------|
| Project #: | 149822484 |
| Date: | 2024-04-08 |
| Test Engineer: | 32545 |
| Configuration: | EUT only |
| Mode | 5G NR n71 BPSK 20MHz |
| Chamber #: | 02-RDE-E |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 206807 ACF (dB/m) 3mH | EIRP CF | Amp/Cbl (dB) | Corrected Reading (dBm) | Harmonics limit | Margin (dB) | Polarity |
|-----------------------------|----------------------|-----|-----------------------|---------|--------------|-------------------------|-----------------|-------------|----------|
| Low Channel, 673MHz | | | | | | | | | |
| 1.323550 | 54.15 | Pk | 29.0 | -95.2 | -48.99 | -61.04 | -13 | -48.04 | H |
| 1.323550 | 53.57 | Pk | 29.0 | -95.2 | -48.99 | -61.62 | -13 | -48.62 | V |
| 1.990450 | 58.32 | Pk | 31.1 | -95.2 | -48.83 | -54.61 | -13 | -41.61 | H |
| 1.990450 | 56.57 | Pk | 31.1 | -95.2 | -48.83 | -56.36 | -13 | -43.36 | V |
| 2.652850 | 56.64 | Pk | 32.2 | -95.2 | -48.23 | -54.59 | -13 | -41.59 | H |
| 2.653300 | 56.48 | Pk | 32.2 | -95.2 | -48.20 | -54.72 | -13 | -41.72 | V |
| Mid Channel, 683MHz | | | | | | | | | |
| 1.341100 | 56.92 | Pk | 28.9 | -95.2 | -48.98 | -58.36 | -13 | -45.36 | H |
| 1.341100 | 57.19 | Pk | 28.9 | -95.2 | -48.98 | -58.09 | -13 | -45.09 | V |
| 2.683000 | 55.64 | Pk | 32.2 | -95.2 | -47.93 | -55.29 | -13 | -42.29 | H |
| 2.683000 | 54.52 | Pk | 32.2 | -95.2 | -47.93 | -56.41 | -13 | -43.41 | V |
| 2.011150 | 54.88 | Pk | 31.2 | -95.2 | -48.84 | -57.96 | -13 | -44.96 | V |
| 2.011600 | 55.83 | Pk | 31.2 | -95.2 | -48.85 | -57.02 | -13 | -44.02 | H |
| High Channel, 688MHz | | | | | | | | | |
| 1.336150 | 55.09 | Pk | 28.9 | -95.2 | -49.01 | -60.22 | -13 | -47.22 | H |
| 2.713150 | 55.04 | Pk | 32.1 | -95.2 | -47.69 | -55.75 | -13 | -42.75 | H |
| 1.337500 | 55.20 | Pk | 28.9 | -95.2 | -49.01 | -60.11 | -13 | -47.11 | V |
| 2.712700 | 55.26 | Pk | 32.1 | -95.2 | -47.69 | -55.53 | -13 | -42.53 | V |
| 2.035000 | 56.68 | Pk | 31.3 | -95.2 | -48.95 | -56.17 | -13 | -43.17 | H |
| 2.035000 | 55.97 | Pk | 31.3 | -95.2 | -48.95 | -56.88 | -13 | -43.88 | V |

10.2. FIELD STRENGTH OF SPURIOUS RADIATION, ANT2

TEST PROCEDURE

KDB 971168 D01 /D02

All tests below 1GHz were done with a Resolution Bandwidth of 100kHz, and a Video Bandwidth of 300kHz.

RESULTS

10.2.1. LTE BAND 7 AND 5G NR n7

LIMITS

FCC: §27.53 (m)

At least 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.

QPSK LTE BAND 7 (20.0MHZ BANDWIDTH)

| | |
|----------------|-------------------|
| Project #: | 14982489 |
| Date: | 2024-04-02 |
| Test Engineer: | 32145 |
| Configuration: | EUT only |
| Mode | LTE B7 QPSK 20MHz |
| Chamber #: | 03-RDE-A |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 200897 ACF 3m (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | LIMIT | Margin (dB) | Polarity |
|------------------------------|----------------------|-----|----------------------|---------|----------------|-------------------------|-------|-------------|----------|
| Low Channel, 2510MHz | | | | | | | | | |
| 5.011500 | 56.58 | Pk | 33.9 | -95.2 | -47.33 | -52.05 | -25 | -27.05 | H |
| 7.538500 | 54.54 | Pk | 35.7 | -95.2 | -45.32 | -50.28 | -25 | -25.28 | H |
| 5.046500 | 56.38 | Pk | 33.9 | -95.2 | -47.47 | -52.39 | -25 | -27.39 | V |
| 7.535500 | 54.22 | Pk | 35.7 | -95.2 | -45.33 | -50.61 | -25 | -25.61 | V |
| 10.041000 | 54.71 | Pk | 37.3 | -95.2 | -45.69 | -48.88 | -25 | -23.88 | V |
| 10.044000 | 54.58 | Pk | 37.3 | -95.2 | -45.42 | -48.74 | -25 | -23.74 | H |
| Mid Channel, 2535MHz | | | | | | | | | |
| 5.051500 | 56.78 | Pk | 33.9 | -95.2 | -47.81 | -52.33 | -25 | -27.33 | H |
| 7.617500 | 54.38 | Pk | 35.7 | -95.2 | -45.90 | -51.02 | -25 | -26.02 | H |
| 5.056000 | 56.22 | Pk | 33.9 | -95.2 | -47.62 | -52.70 | -25 | -27.70 | V |
| 7.583000 | 54.03 | Pk | 35.7 | -95.2 | -45.70 | -51.17 | -25 | -26.17 | V |
| 10.147500 | 54.61 | Pk | 37.5 | -95.2 | -45.56 | -48.65 | -25 | -23.65 | V |
| 10.152000 | 55.61 | Pk | 37.4 | -95.2 | -45.53 | -47.72 | -25 | -22.72 | H |
| High Channel, 2560MHz | | | | | | | | | |
| 5.117000 | 57.03 | Pk | 34.0 | -95.2 | -47.93 | -52.10 | -25 | -27.10 | H |
| 7.698000 | 54.69 | Pk | 35.7 | -95.2 | -45.43 | -50.24 | -25 | -25.24 | H |
| 5.136500 | 56.12 | Pk | 34.1 | -95.2 | -47.72 | -52.70 | -25 | -27.70 | V |
| 7.669500 | 54.06 | Pk | 35.7 | -95.2 | -45.55 | -50.99 | -25 | -25.99 | V |
| 10.256000 | 54.43 | Pk | 37.5 | -95.2 | -44.58 | -47.85 | -25 | -22.85 | H |
| 10.303000 | 54.52 | Pk | 37.5 | -95.2 | -44.63 | -47.81 | -25 | -22.81 | V |

BPSK 5G NR n7 (40.0MHZ BANDWIDTH)

| | |
|------------|----------|
| Project #: | 14982484 |
|------------|----------|

| | |
|----------------|---------------------|
| Date: | 2024-04-08 |
| Test Engineer: | 32545 |
| Configuration: | EUT only |
| Mode | 5G NR n7 BPSK 40MHz |
| Chamber #: | 02-RDE-E |

| Frequency (MHz) | Meter Reading (dBuV) | Det | 206807 ACF (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | LIMIT | Margin (dB) | Polarity |
|------------------------------|----------------------|-----|-------------------|---------|----------------|-------------------------|-------|-------------|----------|
| Low Channel, 2520MHz | | | | | | | | | |
| 5.020500 | 53.13 | Pk | 34.0 | -95.2 | -47.36 | -55.43 | -25 | -30.43 | H |
| 5.020500 | 54.37 | Pk | 34.0 | -95.2 | -47.36 | -54.19 | -25 | -29.19 | V |
| 7.530000 | 51.60 | Pk | 35.7 | -95.2 | -45.56 | -53.46 | -25 | -28.46 | H |
| 7.530500 | 52.69 | Pk | 35.7 | -95.2 | -45.57 | -52.38 | -25 | -27.38 | V |
| 10.040500 | 54.12 | Pk | 37.4 | -95.2 | -44.97 | -48.65 | -25 | -23.65 | H |
| 5.020500 | 53.13 | Pk | 34.0 | -95.2 | -47.36 | -55.43 | -25 | -30.43 | H |
| Mid Channel, 2535MHz | | | | | | | | | |
| 5.051000 | 53.75 | Pk | 34.1 | -95.2 | -47.67 | -55.02 | -25 | -30.02 | H |
| 5.051000 | 54.11 | Pk | 34.1 | -95.2 | -47.67 | -54.66 | -25 | -29.66 | V |
| 7.575500 | 52.41 | Pk | 35.7 | -95.2 | -45.59 | -52.68 | -25 | -27.68 | H |
| 7.576000 | 52.07 | Pk | 35.7 | -95.2 | -45.59 | -53.02 | -25 | -28.02 | V |
| 10.099500 | 54.29 | Pk | 37.5 | -95.2 | -45.03 | -48.44 | -25 | -23.44 | V |
| 10.100000 | 55.60 | Pk | 37.5 | -95.2 | -45.09 | -47.19 | -25 | -22.19 | H |
| High Channel, 2550MHz | | | | | | | | | |
| 5.060000 | 53.39 | Pk | 34.1 | -95.2 | -47.61 | -55.32 | -25 | -30.32 | H |
| 7.590500 | 51.58 | Pk | 35.8 | -95.2 | -45.59 | -53.41 | -25 | -28.41 | H |
| 5.060000 | 55.85 | Pk | 34.1 | -95.2 | -47.61 | -52.86 | -25 | -27.86 | V |
| 7.590500 | 52.73 | Pk | 35.8 | -95.2 | -45.59 | -52.26 | -25 | -27.26 | V |
| 10.117000 | 52.14 | Pk | 37.5 | -95.2 | -45.03 | -50.59 | -25 | -25.59 | V |
| 10.120000 | 51.78 | Pk | 37.5 | -95.2 | -44.93 | -50.85 | -25 | -25.85 | H |

10.2.2. LTE BAND 12 AND 5G NR n12

LIMITS

FCC: §27.53 (g)

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.

QPSK LTE BAND 12 (10.0MHZ BANDWIDTH)

| | |
|----------------|--------------------|
| Project #: | 14982484 |
| Date: | 2024-04-10 |
| Test Engineer: | 104996 |
| Configuration: | EUT only |
| Mode | LTE B12 QPSK 10MHz |
| Chamber #: | 03-RDE-B |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 230300 ACF 3m (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | LIMIT | Margin (dB) | Polarity |
|------------------------------|----------------------|-----|----------------------|---------|----------------|-------------------------|-------|-------------|----------|
| Low Channel, 704MHz | | | | | | | | | |
| 1.395012 | 60.59 | Pk | 28.7 | -95.2 | -49.8 | -55.71 | -13 | -42.71 | H |
| 2.791166 | 60.48 | Pk | 32.5 | -95.2 | -49.6 | -51.82 | -13 | -38.82 | H |
| 1.392830 | 62.11 | Pk | 28.7 | -95.2 | -49.9 | -54.27 | -13 | -41.27 | V |
| 2.794073 | 60.29 | Pk | 32.5 | -95.2 | -49.6 | -52.01 | -13 | -39.01 | V |
| 2.092215 | 60.92 | Pk | 31.6 | -95.2 | -50.1 | -52.78 | -13 | -39.78 | V |
| 2.094078 | 61.56 | Pk | 31.6 | -95.2 | -50.0 | -52.05 | -13 | -39.05 | H |
| Mid Channel, 707.5MHz | | | | | | | | | |
| 1.406226 | 69.28 | Pk | 28.7 | -95.2 | -49.8 | -47.02 | -13 | -34.02 | V |
| 2.109484 | 69.25 | Pk | 31.6 | -95.2 | -50.1 | -44.45 | -13 | -31.45 | H |
| 2.109601 | 62.29 | Pk | 31.6 | -95.2 | -50.1 | -51.41 | -13 | -38.41 | V |
| 1.420750 | 60.02 | Pk | 28.6 | -95.2 | -49.7 | -56.28 | -13 | -43.28 | H |
| 2.827000 | 58.70 | Pk | 32.5 | -95.2 | -49.4 | -53.40 | -13 | -40.40 | H |
| 2.838700 | 58.95 | Pk | 32.5 | -95.2 | -49.2 | -52.95 | -13 | -39.95 | V |
| High Channel, 711MHz | | | | | | | | | |
| 1.411945 | 60.02 | Pk | 28.7 | -95.2 | -49.8 | -56.28 | -13 | -43.28 | H |
| 2.821167 | 60.75 | Pk | 32.5 | -95.2 | -49.4 | -51.35 | -13 | -38.35 | H |
| 1.414871 | 69.90 | Pk | 28.6 | -95.2 | -49.7 | -46.41 | -13 | -33.41 | V |
| 2.819942 | 60.34 | Pk | 32.5 | -95.2 | -49.4 | -51.77 | -13 | -38.77 | V |
| 2.113584 | 61.62 | Pk | 31.7 | -95.2 | -50.1 | -51.98 | -13 | -38.98 | H |
| 2.118252 | 62.28 | Pk | 31.7 | -95.2 | -50.1 | -51.32 | -13 | -38.32 | V |

BPSK 5G NR n12 (15.0MHZ BANDWIDTH)

| | |
|----------------|----------------------|
| Project #: | 14982484 |
| Date: | 2024-04-08 |
| Test Engineer: | 32545 |
| Configuration: | EUT only |
| Mode | 5G NR n12 BPSK 15MHz |
| Chamber #: | 02-RDE-E |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 206807 ACF (dB/m) - 3mH | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | LIMIT | Margin (dB) | Polarity |
|-------------------------------|----------------------|-----|-------------------------|---------|----------------|-------------------------|-------|-------------|----------|
| Low Channel, 706.5MHz | | | | | | | | | |
| 1.398700 | 58.64 | Pk | 28.7 | -95.2 | -48.86 | -56.72 | -13 | -43.72 | H |
| 2.796850 | 54.03 | Pk | 32.2 | -95.2 | -48.15 | -57.12 | -13 | -44.12 | H |
| 1.398700 | 57.07 | Pk | 28.7 | -95.2 | -48.86 | -58.29 | -13 | -45.29 | V |
| 2.796850 | 54.77 | Pk | 32.2 | -95.2 | -48.15 | -56.38 | -13 | -43.38 | V |
| 2.097100 | 56.75 | Pk | 31.7 | -95.2 | -48.91 | -55.66 | -13 | -42.66 | H |
| 2.097100 | 57.18 | Pk | 31.7 | -95.2 | -48.91 | -55.23 | -13 | -42.23 | V |
| Mid Channel, 707.5MHz | | | | | | | | | |
| 1.400050 | 56.89 | Pk | 28.7 | -95.2 | -48.86 | -58.47 | -13 | -45.47 | H |
| 2.800450 | 55.75 | Pk | 32.2 | -95.2 | -48.30 | -55.55 | -13 | -42.55 | H |
| 1.400050 | 56.93 | Pk | 28.7 | -95.2 | -48.86 | -58.43 | -13 | -45.43 | V |
| 2.800450 | 54.85 | Pk | 32.2 | -95.2 | -48.30 | -56.45 | -13 | -43.45 | V |
| 2.100700 | 57.28 | Pk | 31.7 | -95.2 | -48.92 | -55.14 | -13 | -42.14 | H |
| 2.100700 | 56.93 | Pk | 31.7 | -95.2 | -48.92 | -55.49 | -13 | -42.49 | V |
| High Channel, 708.5MHz | | | | | | | | | |
| 1.402750 | 56.38 | Pk | 28.7 | -95.2 | -48.91 | -59.03 | -13 | -46.03 | H |
| 2.804500 | 53.65 | Pk | 32.2 | -95.2 | -48.33 | -57.68 | -13 | -44.68 | H |
| 1.402300 | 56.36 | Pk | 28.7 | -95.2 | -48.90 | -59.04 | -13 | -46.04 | V |
| 2.805850 | 55.62 | Pk | 32.2 | -95.2 | -48.32 | -55.70 | -13 | -42.70 | V |
| 2.101600 | 56.36 | Pk | 31.7 | -95.2 | -48.94 | -56.08 | -13 | -43.08 | V |
| 2.102950 | 56.83 | Pk | 31.7 | -95.2 | -48.94 | -55.61 | -13 | -42.61 | H |

10.2.3. LTE BAND 13

LIMITS

FCC: §27.53

(c) 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.

(f) Emissions in 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.

QPSK LTE BAND 13 (10.0MHZ BANDWIDTH)

| | |
|----------------|--------------------|
| Project #: | 14982484 |
| Date: | 2024-06-26 |
| Test Engineer: | 32934 |
| Configuration: | EUT only |
| Mode | LTE B13 QPSK 10MHz |
| Chamber #: | 01-RDE-A |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 81886 ACF 3m (dB/m) | HPF 1.2GHz T1737 1-18GHz (dB) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | LIMIT | Margin (dB) | Polarity |
|----------------------------|----------------------|-----|---------------------|-------------------------------|---------|----------------|-------------------------|-------|-------------|----------|
| Mid Channel, 782MHz | | | | | | | | | | |
| 1.581333 | 41.10 | Pk | 28.3 | .8 | -95.2 | -27.87 | -52.87 | -40 | -12.87 | H |
| 1.587200 | 41.96 | Pk | 28.3 | .8 | -95.2 | -27.80 | -51.94 | -40 | -11.94 | V |
| 2.350356 | 38.68 | Pk | 32.0 | .5 | -95.2 | -26.06 | -50.08 | -13 | -37.08 | H |
| 2.350845 | 38.59 | Pk | 32.0 | .5 | -95.2 | -26.02 | -50.13 | -13 | -37.13 | V |
| 3.117423 | 37.53 | Pk | 32.9 | .7 | -95.2 | -25.20 | -49.27 | -13 | -36.27 | V |
| 3.123778 | 37.57 | Pk | 32.9 | .6 | -95.2 | -25.30 | -49.43 | -13 | -36.43 | H |

Emissions in the GPS band were wideband emissions therefore the -40dBm/MHz limit was used.

10.2.4. LTE BAND 14 AND 5G NR n14

LIMITS

FCC: §90.543 Emission Limitations. (Band 14)

(e) For operations in the 758-768 MHz and the 788-798 MHz bands, 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:

(3) On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least $43 + 10 \log (P)$ dB.

(f) For operations in the 758-775 MHz and 788-805 MHz bands, all emissions including harmonics in 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. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation

QPSK LTE BAND 14 (10.0MHZ BANDWIDTH)

| | |
|----------------|--------------------|
| Project #: | 14982484 |
| Date: | 2024-06-26 |
| Test Engineer: | 25369 |
| Configuration: | EUT only |
| Mode | LTE B14 QPSK 10MHz |
| Chamber #: | 01-RDE-A |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 81886 ACF 3m (dB/m) | HPF 1.2GHz T1737 1-18GHz (dB) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | LIMIT | Margin (dB) | Polarity |
|----------------------------|----------------------|-----|---------------------|-------------------------------|---------|----------------|-------------------------|-------|-------------|----------|
| Mid Channel, 793MHz | | | | | | | | | | |
| 1.584756 | 41.45 | Pk | 28.3 | .8 | -95.2 | -28.00 | -52.65 | -40 | -12.65 | H |
| 1.589645 | 40.98 | Pk | 28.4 | .8 | -95.2 | -27.96 | -52.98 | -40 | -12.98 | V |
| 2.386045 | 39.26 | Pk | 32.2 | .5 | -95.2 | -26.10 | -49.34 | -13 | -36.34 | H |
| 2.388978 | 39.35 | Pk | 32.2 | .5 | -95.2 | -26.10 | -49.25 | -13 | -36.25 | V |
| 3.174623 | 36.95 | Pk | 33.0 | .5 | -95.2 | -25.20 | -49.95 | -13 | -36.95 | H |
| 3.176578 | 37.75 | Pk | 33.0 | .5 | -95.2 | -25.30 | -49.25 | -13 | -36.25 | V |

Emissions in the GPS band were wideband emissions therefore the -40dBm/MHz limit was used.

BPSK 5G NR n14 (10.0MHZ BANDWIDTH)

| | |
|----------------|----------------------|
| Project #: | 14982484 |
| Date: | 2024-06-28 |
| Test Engineer: | 106018 |
| Configuration: | EUT only |
| Mode | 5G NR n14 BPSK 10MHz |
| Chamber #: | 01-RDE-A |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 81886 ACF 3m (dB/m) | HPF 1.2GHz T1737 1-18GHz (dB) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | LIMIT | Margin (dB) | Polarity |
|----------------------------|----------------------|-----|---------------------|-------------------------------|---------|----------------|-------------------------|-------|-------------|----------|
| Mid Channel, 793MHz | | | | | | | | | | |
| 1.588667 | 41.13 | Pk | 28.4 | .8 | -95.2 | -27.87 | -52.74 | -40 | -12.74 | V |
| 1.596000 | 40.95 | Pk | 28.4 | .8 | -95.2 | -27.80 | -52.85 | -40 | -12.85 | H |
| 2.365022 | 38.35 | Pk | 32.1 | .5 | -95.2 | -26.00 | -50.25 | -13 | -37.25 | H |
| 2.366978 | 37.92 | Pk | 32.1 | .5 | -95.2 | -25.90 | -50.58 | -13 | -37.58 | V |
| 3.190267 | 36.51 | Pk | 33.0 | .6 | -95.2 | -25.03 | -50.12 | -13 | -37.12 | H |
| 3.201512 | 37.56 | Pk | 33.0 | .5 | -95.2 | -25.00 | -49.14 | -13 | -36.14 | V |

Emissions in the GPS band were wideband emissions therefore the -40dBm/MHz limit was used.

10.2.5. LTE BAND 17

LIMITS

FCC: §27.53 (g)

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.

QPSK LTE BAND 17 (10.0MHZ BANDWIDTH)

| | |
|----------------|--------------------|
| Project #: | 14982484 |
| Date: | 2024-04-10 |
| Test Engineer: | 104996 |
| Configuration: | EUT only |
| Mode | LTE B17 QPSK 10MHz |
| Chamber #: | 03-RDE-B |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 230300 ACF (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | LIMIT | Margin (dB) | Polarity |
|----------------------------|----------------------|-----|-------------------|---------|----------------|-------------------------|-------|-------------|----------|
| Low Channel, 709MHz | | | | | | | | | |
| 1.399586 | 59.77 | Pk | 28.7 | -95.2 | -49.8 | -56.53 | -13 | -43.53 | H |
| 2.805103 | 60.01 | Pk | 32.5 | -95.2 | -49.5 | -52.19 | -13 | -39.19 | H |
| 1.397278 | 60.74 | Pk | 28.7 | -95.2 | -49.8 | -55.56 | -13 | -42.56 | V |

| | | | | | | | | | |
|-----------------------------|-------|----|------|-------|--------|--------|-----|--------|---|
| 2.801494 | 60.05 | Pk | 32.5 | -95.2 | -49.6 | -52.25 | -13 | -39.25 | V |
| 2.105521 | 61.70 | Pk | 31.6 | -95.2 | -50.1 | -52.00 | -13 | -39.00 | V |
| 2.105680 | 61.70 | Pk | 31.6 | -95.2 | -50.1 | -52.00 | -13 | -39.00 | H |
| Mid Channel, 710MHz | | | | | | | | | |
| 1.402507 | 59.55 | Pk | 28.7 | -95.2 | -49.85 | -56.8 | -13 | -43.8 | H |
| 2.807840 | 59.84 | Pk | 32.5 | -95.2 | -49.5 | -52.36 | -13 | -39.36 | H |
| 1.402001 | 60.23 | Pk | 28.7 | -95.2 | -49.9 | -56.17 | -13 | -43.17 | V |
| 2.807602 | 60.86 | Pk | 32.5 | -95.2 | -49.5 | -51.34 | -13 | -38.34 | V |
| 2.107875 | 61.69 | Pk | 31.6 | -95.2 | -50.1 | -52.01 | -13 | -39.01 | V |
| 2.107895 | 61.69 | Pk | 31.6 | -95.2 | -50.1 | -52.01 | -13 | -39.01 | H |
| High Channel, 711MHz | | | | | | | | | |
| 1.414935 | 66.61 | Pk | 28.6 | -95.2 | -49.71 | -49.70 | -13 | -36.70 | H |
| 2.809573 | 60.44 | Pk | 32.5 | -95.2 | -49.56 | -51.82 | -13 | -38.82 | H |
| 1.413560 | 69.25 | Pk | 28.6 | -95.2 | -49.8 | -47.15 | -13 | -34.15 | V |
| 2.811294 | 59.78 | Pk | 32.5 | -95.2 | -49.5 | -52.42 | -13 | -39.42 | V |
| 2.104630 | 61.39 | Pk | 31.6 | -95.2 | -50.1 | -52.31 | -13 | -39.31 | V |
| 2.109808 | 61.85 | Pk | 31.6 | -95.2 | -50.1 | -51.85 | -13 | -38.85 | H |

10.2.6. LTE BAND 25 AND 5G NR n25

LIMITS

FCC: §24.238(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.

QPSK LTE BAND 25 (20.0MHZ BANDWIDTH)

| | |
|------------|----------|
| Project #: | 14982484 |
|------------|----------|

| | |
|----------------|--------------------|
| Date: | 2024-04-03 |
| Test Engineer: | 32145 |
| Configuration: | EUT only |
| Mode | LTE B25 QPSK 20MHz |
| Chamber #: | 03-RDE-A |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 200897 ACF 3m (dB/m) | EIRP CF | Amp/Cbl (dB) | Corrected Reading (dBm) | Harmonics limit | Margin (dB) | Polarity |
|-------------------------------|----------------------|-----|----------------------|---------|--------------|-------------------------|-----------------|-------------|----------|
| Low Channel, 1860MHz | | | | | | | | | |
| 3.725500 | 55.81 | Pk | 33.1 | -95.2 | -47.02 | -53.31 | -13 | -40.31 | H |
| 7.445000 | 54.71 | Pk | 35.7 | -95.2 | -45.91 | -50.70 | -13 | -37.70 | H |
| 3.705500 | 55.72 | Pk | 33.0 | -95.2 | -47.15 | -53.63 | -13 | -40.63 | V |
| 7.450500 | 54.26 | Pk | 35.7 | -95.2 | -45.82 | -51.06 | -13 | -38.06 | V |
| 5.533000 | 55.36 | Pk | 34.4 | -95.2 | -47.07 | -52.51 | -13 | -39.51 | V |
| 5.563500 | 55.44 | Pk | 34.3 | -95.2 | -46.95 | -52.41 | -13 | -39.41 | H |
| Mid Channel, 1882.5MHz | | | | | | | | | |
| 3.777500 | 56.55 | Pk | 33.6 | -95.2 | -47.9 | -52.95 | -13 | -39.95 | H |
| 7.534000 | 56.16 | Pk | 36 | -95.2 | -47.9 | -50.94 | -13 | -37.94 | H |
| 3.761000 | 55.54 | Pk | 33.6 | -95.2 | -47.8 | -53.86 | -13 | -40.86 | V |
| 7.570000 | 55.57 | Pk | 36 | -95.2 | -47.5 | -51.13 | -13 | -38.13 | V |
| 5.637000 | 55.84 | Pk | 34.4 | -95.2 | -48.4 | -53.36 | -13 | -40.36 | V |
| 5.638500 | 57.76 | Pk | 34.4 | -95.2 | -48.35 | -51.39 | -13 | -38.39 | H |
| High Channel, 1905MHz | | | | | | | | | |
| 3.809000 | 56.83 | Pk | 33.6 | -95.2 | -47.9 | -52.67 | -13 | -39.67 | H |
| 7.609000 | 56.46 | Pk | 35.9 | -95.2 | -47.1 | -49.94 | -13 | -36.94 | H |
| 3.817500 | 56.91 | Pk | 33.6 | -95.2 | -47.9 | -52.54 | -13 | -39.54 | V |
| 7.609000 | 55.00 | Pk | 35.9 | -95.2 | -47.1 | -51.40 | -13 | -38.40 | V |
| 5.688181 | 69.90 | Pk | 34.4 | -95.2 | -48.2 | -39.10 | -13 | -26.10 | H |
| 5.688214 | 63.00 | Pk | 34.4 | -95.2 | -48.2 | -46.00 | -13 | -33.00 | V |

BPSK 5G NR n25 (40.0MHZ BANDWIDTH)

| | |
|----------------|------------|
| Project #: | 14982484 |
| Date: | 2024-04-09 |
| Test Engineer: | 32545 |
| Configuration: | EUT only |

| | |
|------------|----------------------|
| Mode | 5G NR n25 BPSK 40MHz |
| Chamber #: | 04-RDE-R |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 206807 ACF (dB/m) | EIRP CF | Amp/Cbl (dB) | Corrected Reading (dBm) | Harmonics limit | Margin (dB) | Polarity |
|-------------------------------|----------------------|-----|-------------------|---------|--------------|-------------------------|-----------------|-------------|----------|
| Low Channel, 1870MHz | | | | | | | | | |
| 3.700000 | 52.93 | Pk | 33.5 | -95.2 | -45.8 | -54.57 | -13 | -41.57 | H |
| 7.400500 | 51.61 | Pk | 35.6 | -95.2 | -45.6 | -53.59 | -13 | -40.59 | H |
| 3.700000 | 53.51 | Pk | 33.5 | -95.2 | -45.8 | -53.99 | -13 | -40.99 | V |
| 7.400500 | 50.99 | Pk | 35.6 | -95.2 | -45.6 | -54.21 | -13 | -41.21 | V |
| 5.550500 | 52.48 | Pk | 34.4 | -95.2 | -46.5 | -54.85 | -13 | -41.85 | H |
| 5.550500 | 53.72 | Pk | 34.4 | -95.2 | -46.5 | -53.61 | -13 | -40.61 | V |
| Mid Channel, 1882.5MHz | | | | | | | | | |
| 3.725500 | 52.66 | Pk | 33.3 | -95.2 | -45.86 | -55.10 | -13 | -42.10 | H |
| 7.450000 | 51.28 | Pk | 35.6 | -95.2 | -45.42 | -53.74 | -13 | -40.74 | H |
| 3.725500 | 52.34 | Pk | 33.3 | -95.2 | -45.86 | -55.42 | -13 | -42.42 | V |
| 7.449500 | 52.25 | Pk | 35.6 | -95.2 | -45.43 | -52.78 | -13 | -39.78 | V |
| 5.587500 | 55.41 | Pk | 34.5 | -95.2 | -46.59 | -51.88 | -13 | -38.88 | H |
| 5.588000 | 52.70 | Pk | 34.5 | -95.2 | -46.58 | -54.58 | -13 | -41.58 | V |
| High Channel, 1895MHz | | | | | | | | | |
| 3.751000 | 52.32 | Pk | 33.3 | -95.2 | -45.73 | -55.31 | -13 | -42.31 | H |
| 7.500500 | 51.55 | Pk | 35.7 | -95.2 | -45.18 | -53.13 | -13 | -40.13 | H |
| 3.751000 | 51.87 | Pk | 33.3 | -95.2 | -45.73 | -55.76 | -13 | -42.76 | V |
| 7.501500 | 52.17 | Pk | 35.7 | -95.2 | -45.19 | -52.52 | -13 | -39.52 | V |
| 5.625000 | 53.14 | Pk | 34.5 | -95.2 | -46.47 | -54.03 | -13 | -41.03 | V |
| 5.626000 | 52.79 | Pk | 34.5 | -95.2 | -46.48 | -54.39 | -13 | -41.39 | H |

10.2.7. LTE BAND 26 (FCC PART 90S)

LIMITS

FCC: §90.691

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.

QPSK LTE BAND 26 (10.0MHZ BANDWIDTH)

| | |
|----------------|--------------------|
| Project #: | 149828484 |
| Date: | 2024-07-12 |
| Test Engineer: | 106018 |
| Configuration: | EUT only |
| Mode | LTE B26 QPSK 10MHz |
| Chamber #: | 01-RDE-A |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 81886 ACF 3m (dB/m) | HPF 1.2GHz T1737 1-18GHz (dB) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | LIMIT | Margin (dB) | Polarity |
|----------------------------|----------------------|-----|---------------------|-------------------------------|---------|----------------|-------------------------|-------|-------------|----------|
| Mid Channel, 819MHz | | | | | | | | | | |
| 1.630711 | 40.05 | Pk | 28.7 | .7 | -95.2 | -27.7 | -53.5 | -13 | -40.45 | V |
| 1.636578 | 38.80 | Pk | 28.8 | .7 | -95.2 | -27.8 | -54.7 | -13 | -41.70 | H |
| 2.439823 | 37.59 | Pk | 32.4 | .5 | -95.2 | -26.1 | -50.81 | -13 | -37.81 | V |
| 2.445689 | 37.90 | Pk | 32.4 | .5 | -95.2 | -26.2 | -50.6 | -13 | -37.60 | H |
| 3.273378 | 36.02 | Pk | 33.0 | .7 | -95.2 | -24.9 | -50.34 | -13 | -37.34 | H |
| 3.277778 | 36.43 | Pk | 33.0 | .8 | -95.2 | -24.8 | -49.75 | -13 | -36.75 | V |

BPSK 5G NR n26 (10.0MHZ BANDWIDTH)

| | |
|----------------|----------------------|
| Project #: | 1482484 |
| Date: | 2024-03-15 |
| Test Engineer: | 25369 |
| Configuration: | EUT only |
| Mode | 5G NR n25 BPSK 10MHz |
| Chamber #: | 04-RDE-R |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 81886 ACF 3m (dB/m) | HPF 1.2GHz T1737 1-18GHz (dB) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | LIMIT | Margin (dB) | Polarity |
|----------------------------|----------------------|-----|---------------------|-------------------------------|---------|----------------|-------------------------|-------|-------------|----------|
| Mid Channel, 819MHz | | | | | | | | | | |
| 1.648311 | 39.24 | Pk | 28.9 | .7 | -95.2 | -27.83 | -54.19 | -13 | -41.19 | V |
| 1.658578 | 39.05 | Pk | 29 | .8 | -95.2 | -27.74 | -54.09 | -13 | -41.09 | H |
| 2.488223 | 37.89 | Pk | 32.5 | .5 | -95.2 | -26.1 | -50.41 | -13 | -37.41 | V |
| 2.498978 | 38.14 | Pk | 32.5 | .6 | -95.2 | -26.2 | -50.16 | -13 | -37.16 | H |
| 3.296845 | 35.9 | Pk | 33 | .8 | -95.2 | -24.9 | -50.4 | -13 | -37.4 | H |
| 3.311512 | 36.51 | Pk | 32.9 | .6 | -95.2 | -25.1 | -50.29 | -13 | -37.29 | V |

10.2.8. LTE BAND 26 AND 5G NR n26 (FCC PART 22)

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.

QPSK LTE BAND 26 (10.0MHZ BANDWIDTH)

| | |
|----------------|--------------------|
| Project #: | 14982484 |
| Date: | 2024-06-06 |
| Test Engineer: | 106018 |
| Configuration: | EUT only |
| Mode | LTE B25 QPSK 10MHz |
| Chamber #: | 01-RDE-A |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 81886 ACF 3m (dB/m) | HPF 1.2GHz T1737 1-18GHz (dB) | EIRP CF | Amp/Cbl (dB) | Corrected Reading (dBm) | Limit | Margin (dB) | Polarity |
|-------------------------------|----------------------|-----|---------------------|-------------------------------|---------|--------------|-------------------------|-------|-------------|----------|
| Low Channel, 829.0MHz | | | | | | | | | | |
| 1.662978 | 39.47 | Pk | 29.0 | .8 | -95.2 | -27.80 | -53.73 | -13 | -40.73 | H |
| 1.666400 | 39.76 | Pk | 29.0 | .7 | -95.2 | -27.66 | -53.40 | -13 | -40.40 | V |
| 2.474357 | 48.20 | Pk | 32.5 | .5 | -95.2 | -26.10 | -40.10 | -13 | -27.10 | H |
| 2.484800 | 38.18 | Pk | 32.5 | .5 | -95.2 | -26.08 | -50.10 | -13 | -37.10 | V |
| 3.321289 | 35.92 | Pk | 32.9 | .6 | -95.2 | -25.00 | -50.78 | -13 | -37.78 | V |
| 3.326667 | 36.85 | Pk | 32.8 | .6 | -95.2 | -25.00 | -49.95 | -13 | -36.95 | H |
| Mid Channel, 836.5MHz | | | | | | | | | | |
| 1.663467 | 39.08 | Pk | 29.0 | .8 | -95.2 | -27.80 | -54.12 | -13 | -41.12 | V |
| 1.679111 | 38.59 | Pk | 29.2 | .7 | -95.2 | -27.59 | -54.30 | -13 | -41.30 | H |
| 2.489274 | 48.13 | Pk | 32.5 | .6 | -95.2 | -26.10 | -40.07 | -13 | -27.07 | H |
| 2.489391 | 47.88 | Pk | 32.5 | .6 | -95.2 | -26.10 | -40.32 | -13 | -27.32 | V |
| 3.355023 | 34.64 | Pk | 32.8 | .6 | -95.2 | -25.00 | -52.16 | -13 | -39.16 | H |
| 3.356978 | 35.17 | Pk | 32.8 | .6 | -95.2 | -24.90 | -51.53 | -13 | -38.53 | V |
| High Channel, 844.0MHz | | | | | | | | | | |
| 1.687422 | 39.35 | Pk | 29.2 | .7 | -95.2 | -27.5 | -53.45 | -13 | -40.45 | V |
| 1.723890 | 40.75 | Pk | 29.6 | .7 | -95.2 | -27.5 | -51.65 | -13 | -38.65 | H |
| 2.504511 | 47.54 | Pk | 32.5 | .7 | -95.2 | -26.2 | -40.66 | -13 | -27.66 | H |
| 2.504560 | 49.18 | Pk | 32.5 | .7 | -95.2 | -26.2 | -39.02 | -13 | -26.02 | V |
| 3.353556 | 36.40 | Pk | 32.8 | .6 | -95.2 | -25.1 | -50.50 | -13 | -37.50 | H |
| 3.366267 | 36.71 | Pk | 32.8 | .6 | -95.2 | -25.0 | -50.12 | -13 | -37.12 | V |

BPSK 5G NR n26 (20.0MHZ BANDWIDTH)

| | |
|----------------|----------------------|
| Project #: | 14982484 |
| Date: | 2024-04-12 |
| Test Engineer: | 32545 |
| Configuration: | EUT only |
| Mode | 5G NR n26 BPSK 40MHz |
| Chamber #: | 04-RDE-R |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 206807 ACF (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | LIMIT | Margin (dB) | Polarity |
|------------------------------|----------------------|-----|-------------------|---------|----------------|-------------------------|-------|-------------|----------|
| Low Channel, 834MHz | | | | | | | | | |
| 1.648000 | 55.69 | Pk | 28.4 | -95.2 | -49.02 | -60.13 | -13 | -47.13 | V |
| 1.648450 | 56.06 | Pk | 28.4 | -95.2 | -49.02 | -59.76 | -13 | -46.76 | H |
| 2.472400 | 54.00 | Pk | 32.3 | -95.2 | -48.37 | -57.27 | -13 | -44.27 | H |
| 2.472400 | 54.44 | Pk | 32.3 | -95.2 | -48.37 | -56.83 | -13 | -43.83 | V |
| 3.296350 | 51.43 | Pk | 32.8 | -95.2 | -46.21 | -57.18 | -13 | -44.18 | H |
| 3.296350 | 51.69 | Pk | 32.8 | -95.2 | -46.21 | -56.92 | -13 | -43.92 | V |
| Mid Channel, 836.5MHz | | | | | | | | | |
| 3.266200 | 52.13 | Pk | 32.9 | -95.2 | -46.08 | -56.25 | -13 | -43.25 | H |
| 3.266200 | 51.23 | Pk | 32.9 | -95.2 | -46.08 | -57.15 | -13 | -44.15 | V |
| 1.633600 | 55.61 | Pk | 28.3 | -95.2 | -48.96 | -60.25 | -13 | -47.25 | H |
| 1.633600 | 57.05 | Pk | 28.3 | -95.2 | -48.96 | -58.81 | -13 | -45.81 | V |
| 2.449000 | 54.50 | Pk | 32.4 | -95.2 | -48.08 | -56.38 | -13 | -43.38 | H |
| 2.449000 | 56.10 | Pk | 32.4 | -95.2 | -48.08 | -54.78 | -13 | -41.78 | V |
| Mid Channel, 839.0MHz | | | | | | | | | |
| 2.484550 | 55.13 | Pk | 32.3 | -95.2 | -48.26 | -56.03 | -13 | -43.03 | H |
| 1.658800 | 58.40 | Pk | 28.5 | -95.2 | -48.99 | -57.29 | -13 | -44.29 | H |
| 1.658800 | 55.73 | Pk | 28.5 | -95.2 | -48.99 | -59.96 | -13 | -46.96 | V |
| 2.483200 | 55.35 | Pk | 32.3 | -95.2 | -48.24 | -55.79 | -13 | -42.79 | V |
| 3.316600 | 52.10 | Pk | 32.8 | -95.2 | -46.43 | -56.73 | -13 | -43.73 | H |
| 3.317050 | 51.86 | Pk | 32.8 | -95.2 | -46.43 | -56.97 | -13 | -43.97 | V |

10.2.9. LTE BAND 30 AND 5G NR n30

LIMITS

FCC: §27.53 (a)

For mobile and portable stations operating in the 2305-2315 MHz: by a factor of not less than 43 + 10 log (P) dB on all frequencies between 2360 and 2365 MHz, and not less than 70 + 10 log (P) dB above 2365 MHz.

QPSK LTE BAND 30 (10.0MHZ BANDWIDTH)

| | |
|----------------|--------------------|
| Project #: | 14982484 |
| Date: | 2024-07-12 |
| Test Engineer: | 106018 |
| Configuration: | EUT only |
| Mode | LTE B30 QPSK 10MHz |
| Chamber #: | 01-RDE-A |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 81886 ACF (dB) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | LIMIT | Margin (dB) | Polarity |
|----------------------|----------------------|-----|----------------|---------|----------------|-------------------------|-------|-------------|----------|
| Mid Channel, 2310MHz | | | | | | | | | |
| 4.621875 | 23.19 | RMS | 34.0 | -95.2 | -23.29 | -61.30 | -40 | -21.30 | H |
| 6.916644 | 24.54 | RMS | 35.6 | -95.2 | -19.16 | -54.22 | -40 | -14.22 | H |
| 9.240469 | 19.38 | RMS | 36.1 | -95.2 | -16.7 | -56.42 | -40 | -16.42 | H |
| 4.622344 | 22.90 | RMS | 34.0 | -95.2 | -23.27 | -61.57 | -40 | -21.57 | V |
| 6.916575 | 22.06 | RMS | 35.6 | -95.2 | -19.16 | -56.70 | -40 | -16.70 | V |
| 9.239063 | 19.33 | RMS | 36.1 | -95.2 | -16.79 | -56.56 | -40 | -16.56 | V |

BPSK 5G NR n30 (10.0MHZ BANDWIDTH)

| | |
|----------------|----------------------|
| Project #: | 14982484 |
| Date: | 2024-07-19 |
| Test Engineer: | 32145 |
| Configuration: | EUT only |
| Mode | 5G NR n30 BPSK 10MHz |
| Chamber #: | 01-RDE-B |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 226671 ACF (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | LIMIT | Margin (dB) | Polarity |
|-----------------------------|----------------------|-----|-------------------|---------|----------------|-------------------------|-------|-------------|----------|
| Mid Channel, 2310MHz | | | | | | | | | |
| 4.626094 | 26.98 | RMS | 34.1 | -95.2 | -28.69 | -62.81 | -40 | -22.81 | V |
| 4.631719 | 26.80 | RMS | 34.1 | -95.2 | -28.70 | -63.00 | -40 | -23.00 | H |
| 6.967500 | 24.75 | RMS | 35.6 | -95.2 | -26.40 | -61.25 | -40 | -21.25 | V |
| 6.973125 | 24.68 | RMS | 35.6 | -95.2 | -26.50 | -61.42 | -40 | -21.42 | H |
| 9.209063 | 22.65 | RMS | 36.3 | -95.2 | -23.50 | -59.75 | -40 | -19.75 | V |
| 9.211406 | 22.64 | RMS | 36.3 | -95.2 | -23.54 | -59.80 | -40 | -19.80 | H |

10.2.10. LTE BAND 41 AND 5G NR n41

LIMITS

FCC: §27.53 (m)

At least $55 + 10 \log (P)$ 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.

QPSK LTE BAND 41 (20.0MHZ BANDWIDTH)

| | |
|----------------|-------------------|
| Project #: | 14982484 |
| Date: | 2024-04-02 |
| Test Engineer: | 32145 |
| Configuration: | EUT only |
| Mode | LTE 41 QPSK 20MHz |
| Chamber #: | 03-RDE-A |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 200897 ACF 3m (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | LIMIT | Margin (dB) | Polarity |
|------------------------------|----------------------|-----|----------------------|---------|----------------|-------------------------|-------|-------------|----------|
| Low Channel, 2506MHz | | | | | | | | | |
| 5.000500 | 56.39 | Pk | 33.9 | -95.2 | -47.34 | -52.25 | -25 | -27.25 | H |
| 7.530000 | 54.25 | Pk | 35.7 | -95.2 | -45.29 | -50.54 | -25 | -25.54 | H |
| 5.012500 | 55.62 | Pk | 33.9 | -95.2 | -47.36 | -53.04 | -25 | -28.04 | V |
| 7.537000 | 54.04 | Pk | 35.7 | -95.2 | -45.34 | -50.80 | -25 | -25.80 | V |
| 10.013500 | 54.39 | Pk | 37.3 | -95.2 | -45.76 | -49.27 | -25 | -24.27 | V |
| 10.014000 | 54.85 | Pk | 37.3 | -95.2 | -45.75 | -48.80 | -25 | -23.80 | H |
| Mid Channel, 2593MHz | | | | | | | | | |
| 5.150500 | 56.69 | Pk | 34.1 | -95.2 | -47.73 | -52.14 | -25 | -27.14 | V |
| 5.171000 | 56.65 | Pk | 34.1 | -95.2 | -47.47 | -51.92 | -25 | -26.92 | H |
| 7.769000 | 54.17 | Pk | 35.8 | -95.2 | -45.14 | -50.37 | -25 | -25.37 | H |
| 7.775000 | 54.08 | Pk | 35.8 | -95.2 | -45.18 | -50.50 | -25 | -25.50 | V |
| 10.366500 | 54.17 | Pk | 37.5 | -95.2 | -45.11 | -48.64 | -25 | -23.64 | V |
| 10.399500 | 54.56 | Pk | 37.6 | -95.2 | -45.14 | -48.18 | -25 | -23.18 | H |
| High Channel, 2680MHz | | | | | | | | | |
| 5.351000 | 56.07 | Pk | 34.4 | -95.2 | -47.38 | -52.11 | -25 | -27.11 | H |
| 8.067000 | 57.01 | Pk | 35.7 | -95.2 | -44.99 | -47.48 | -25 | -22.48 | H |
| 10.699000 | 54.53 | Pk | 37.7 | -95.2 | -44.70 | -47.67 | -25 | -22.67 | H |
| 5.360000 | 55.83 | Pk | 34.4 | -95.2 | -47.38 | -52.35 | -25 | -27.35 | V |
| 8.066500 | 54.26 | Pk | 35.7 | -95.2 | -44.99 | -50.23 | -25 | -25.23 | V |
| 10.683500 | 53.76 | Pk | 37.7 | -95.2 | -44.83 | -48.57 | -25 | -23.57 | V |

BPSK LTE BAND n41 (100.0MHZ BANDWIDTH)

| | |
|----------------|-----------------|
| Project #: | 14982484 |
| Date: | 2024-04-12 |
| Test Engineer: | 32545 |
| Configuration: | EUT only |
| Mode | N41 BPSK 100MHz |
| Chamber #: | 02-RDE-E |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 206807 ACF (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | LIMIT | Margin (dB) | Polarity |
|------------------------------|----------------------|-----|-------------------|---------|----------------|-------------------------|-------|-------------|----------|
| Low Channel, 2546MHz | | | | | | | | | |
| 5.086000 | 53.00 | Pk | 34.1 | -95.2 | -47.55 | -55.65 | -25 | -30.65 | H |
| 7.628000 | 52.52 | Pk | 35.8 | -95.2 | -45.60 | -52.48 | -25 | -27.48 | H |
| 5.086000 | 52.02 | Pk | 34.1 | -95.2 | -47.55 | -56.63 | -25 | -31.63 | V |
| 7.628500 | 52.22 | Pk | 35.8 | -95.2 | -45.62 | -52.80 | -25 | -27.80 | V |
| 10.172000 | 53.46 | Pk | 37.5 | -95.2 | -44.97 | -49.21 | -25 | -24.21 | H |
| 10.172000 | 53.61 | Pk | 37.5 | -95.2 | -44.97 | -49.06 | -25 | -24.06 | V |
| Mid Channel, 2593MHz | | | | | | | | | |
| 5.181000 | 52.61 | Pk | 34.4 | -95.2 | -47.26 | -55.45 | -25 | -30.45 | H |
| 5.181000 | 53.69 | Pk | 34.4 | -95.2 | -47.26 | -54.37 | -25 | -29.37 | V |
| 7.770500 | 51.96 | Pk | 35.9 | -95.2 | -45.31 | -52.65 | -25 | -27.65 | H |
| 7.771000 | 53.01 | Pk | 35.9 | -95.2 | -45.33 | -51.62 | -25 | -26.62 | V |
| 10.361000 | 53.47 | Pk | 37.6 | -95.2 | -44.03 | -48.16 | -25 | -23.16 | H |
| 10.361000 | 51.87 | Pk | 37.6 | -95.2 | -44.03 | -49.76 | -25 | -24.76 | V |
| High Channel, 2640MHz | | | | | | | | | |
| 4.992500 | 53.21 | Pk | 34.0 | -95.2 | -47.39 | -55.38 | -25 | -30.38 | H |
| 7.488000 | 52.00 | Pk | 35.7 | -95.2 | -45.99 | -53.49 | -25 | -28.49 | H |
| 4.993000 | 53.07 | Pk | 34.0 | -95.2 | -47.41 | -55.54 | -25 | -30.54 | V |
| 7.488000 | 53.13 | Pk | 35.7 | -95.2 | -45.99 | -52.36 | -25 | -27.36 | V |
| 9.985000 | 52.05 | Pk | 37.2 | -95.2 | -45.35 | -51.30 | -25 | -26.30 | H |
| 9.985000 | 54.98 | Pk | 37.2 | -95.2 | -45.35 | -48.37 | -25 | -23.37 | V |

10.2.11. LTE BAND 66 AND 5G NR n66

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.

QPSK LTE BAND 66 (20.0MHZ BANDWIDTH)

| | |
|------------|----------|
| Project #: | 14982484 |
|------------|----------|

| | |
|----------------|-------------------|
| Date: | 2024-07-18 |
| Test Engineer: | 32145 |
| Configuration: | EUT only |
| Mode | LTE 66 QPSK 20MHz |
| Chamber #: | 01-RDE-B |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 226671 ACF (dB/m) | EIRP CF | Amp/Cbl (dB) | Corrected Reading (dBm) | LIMIT | Margin (dB) | Polarity |
|------------------------------|----------------------|-----|-------------------|---------|--------------|-------------------------|-------|-------------|----------|
| Low Channel, 1720MHz | | | | | | | | | |
| 3.427031 | 41.56 | Pk | 32.8 | -95.2 | -33.00 | -53.84 | -13 | -40.84 | V |
| 3.430313 | 40.78 | Pk | 32.8 | -95.2 | -33.10 | -54.72 | -13 | -41.72 | H |
| 5.123906 | 39.80 | Pk | 34.1 | -95.2 | -30.09 | -51.39 | -13 | -38.39 | H |
| 5.149219 | 38.75 | Pk | 34.2 | -95.2 | -29.70 | -51.95 | -13 | -38.95 | V |
| 6.858281 | 35.80 | Pk | 35.6 | -95.2 | -26.83 | -50.63 | -13 | -37.63 | H |
| 6.885469 | 35.68 | Pk | 35.6 | -95.2 | -26.70 | -50.62 | -13 | -37.62 | V |
| Mid Channel, 1745MHz | | | | | | | | | |
| 3.463594 | 41.09 | Pk | 32.9 | -95.2 | -33.04 | -54.25 | -13 | -41.25 | V |
| 3.479531 | 41.57 | Pk | 32.9 | -95.2 | -33.00 | -53.73 | -13 | -40.73 | H |
| 5.327344 | 38.67 | Pk | 34.5 | -95.2 | -30.23 | -52.26 | -13 | -39.26 | H |
| 5.351719 | 39.31 | Pk | 34.5 | -95.2 | -30.30 | -51.69 | -13 | -38.69 | V |
| 6.967969 | 35.88 | Pk | 35.6 | -95.2 | -26.40 | -50.12 | -13 | -37.12 | H |
| 6.982500 | 34.47 | Pk | 35.6 | -95.2 | -26.50 | -51.63 | -13 | -38.63 | V |
| High Channel, 1770MHz | | | | | | | | | |
| 3.510000 | 41.46 | Pk | 33.0 | -95.2 | -33.00 | -53.74 | -13 | -40.74 | H |
| 3.511406 | 40.67 | Pk | 33.0 | -95.2 | -33.00 | -54.53 | -13 | -41.53 | V |
| 5.295000 | 37.70 | Pk | 34.4 | -95.2 | -29.40 | -52.50 | -13 | -39.50 | V |
| 5.321250 | 39.38 | Pk | 34.5 | -95.2 | -29.93 | -51.25 | -13 | -38.25 | H |
| 7.054688 | 35.73 | Pk | 35.6 | -95.2 | -26.80 | -50.67 | -13 | -37.67 | V |
| 7.060781 | 36.27 | Pk | 35.6 | -95.2 | -26.80 | -50.13 | -13 | -37.13 | H |

BPSK 5G NR n66 (40.0MHZ BANDWIDTH)

| | |
|----------------|----------------|
| Project #: | 14982484 |
| Date: | 2024-07-09 |
| Test Engineer: | 106018 |
| Configuration: | EUT only |
| Mode | N66 BPSK 40MHz |
| Chamber #: | 01-RDE-A |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 81886_ACF (dB/m) - 3mH | EIRP CF | Amp/Cbl (dB) | Corrected Reading (dBm) | Harmonics limit | Margin (dB) | Polarity |
|------------------------------|----------------------|-----|------------------------|---------|--------------|-------------------------|-----------------|-------------|----------|
| Low Channel, 1730MHz | | | | | | | | | |
| 3.487500 | 35.36 | Pk | 32.8 | -95.2 | -24.40 | -51.44 | -13 | -38.44 | V |
| 3.494063 | 36.01 | Pk | 32.8 | -95.2 | -24.30 | -50.69 | -13 | -37.69 | H |
| 5.132407 | 37.83 | Pk | 34.2 | -95.2 | -21.56 | -44.73 | -13 | -31.73 | V |
| 5.132599 | 37.28 | Pk | 34.2 | -95.2 | -21.54 | -45.26 | -13 | -32.26 | H |
| 6.901875 | 32.27 | Pk | 35.6 | -95.2 | -19.29 | -46.62 | -13 | -33.62 | H |
| 6.931875 | 30.97 | Pk | 35.7 | -95.2 | -19.00 | -47.53 | -13 | -34.53 | V |
| Mid Channel, 1745MHz | | | | | | | | | |
| 3.491719 | 35.66 | Pk | 32.8 | -95.2 | -24.30 | -51.04 | -13 | -38.04 | V |
| 3.525938 | 35.93 | Pk | 32.9 | -95.2 | -24.01 | -50.38 | -13 | -37.38 | H |
| 5.280938 | 33.79 | Pk | 34.3 | -95.2 | -21.51 | -48.62 | -13 | -35.62 | H |
| 5.281406 | 33.09 | Pk | 34.3 | -95.2 | -21.54 | -49.35 | -13 | -36.35 | V |
| 6.984375 | 30.44 | Pk | 35.7 | -95.2 | -18.54 | -47.60 | -13 | -34.60 | V |
| 7.017188 | 30.37 | Pk | 35.6 | -95.2 | -18.30 | -47.53 | -13 | -34.53 | H |
| High Channel, 1760MHz | | | | | | | | | |
| 3.520313 | 34.98 | Pk | 32.9 | -95.2 | -24.17 | -51.49 | -13 | -38.49 | H |
| 3.532031 | 35.63 | Pk | 32.9 | -95.2 | -24.00 | -50.67 | -13 | -37.67 | V |
| 5.222289 | 35.08 | Pk | 34.2 | -95.2 | -22.20 | -48.12 | -13 | -35.12 | V |
| 5.222457 | 41.30 | Pk | 34.2 | -95.2 | -22.20 | -41.90 | -13 | -28.90 | H |
| 7.021875 | 30.63 | Pk | 35.6 | -95.2 | -18.39 | -47.36 | -13 | -34.36 | H |
| 7.044844 | 29.93 | Pk | 35.6 | -95.2 | -17.98 | -47.65 | -13 | -34.65 | V |

10.2.12. 5G NR n70

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.

BPSK 5G NR n70 (15.0MHZ BANDWIDTH based on 5G NR n70 maximum frequency range)

| | |
|----------------|----------------|
| Project #: | 14982484 |
| Date: | 2024-04-15 |
| Test Engineer: | 104996 |
| Configuration: | EUT only |
| Mode | N70 BPSK 15MHz |
| Chamber #: | 03-RDE-B |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 230300 ACF (dB/m) | EIRP CF | Amp/Cbl (dB) | Corrected Reading (dBm) | LIMIT | Margin (dB) | Polarity |
|------------------------|----------------------|-----|-------------------|---------|--------------|-------------------------|-------|-------------|----------|
| Mid Channel, 1702.5MHz | | | | | | | | | |
| 5.084721 | 59.04 | Pk | 34.2 | -95.2 | -49.3 | -51.26 | -13 | -38.26 | H |
| 5.082127 | 58.60 | Pk | 34.2 | -95.2 | -49.3 | -51.70 | -13 | -38.70 | V |
| 3.387361 | 57.11 | Pk | 33.1 | -95.2 | -47.7 | -52.69 | -13 | -39.69 | V |
| 3.392467 | 57.78 | Pk | 33.1 | -95.2 | -47.7 | -52.02 | -13 | -39.02 | H |
| 6.779655 | 56.42 | Pk | 35.7 | -95.2 | -46.7 | -49.78 | -13 | -36.78 | H |
| 6.781593 | 56.71 | Pk | 35.7 | -95.2 | -46.8 | -49.59 | -13 | -36.59 | V |

10.2.13. LTE BAND 71 AND 5G NR n71

LIMITS

FCC: §27.53 (g)

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.

QPSK LTE BAND 71 (20.0MHZ BANDWIDTH)

| | |
|----------------|-------------------|
| Project #: | 14982484 |
| Date: | 2024-04-09 |
| Test Engineer: | 104996 |
| Configuration: | EUT only |
| Mode | LTE 71 QPSK 20MHz |
| Chamber #: | 03-RDE-B |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 230300 ACF 3m (dB/m) | EIRP CF | Amp/Cbl (dB) | Corrected Reading (dBm) | Harmonics limit | Margin (dB) | Polarity |
|------------------------------|----------------------|-----|----------------------|---------|--------------|-------------------------|-----------------|-------------|----------|
| Low Channel, 673MHz | | | | | | | | | |
| 1.275254 | 62.40 | Pk | 28.9 | -95.2 | -49.8 | -53.70 | -13 | -40.70 | H |
| 1.274274 | 62.33 | Pk | 28.9 | -95.2 | -49.8 | -53.77 | -13 | -40.77 | V |
| 1.911920 | 60.83 | Pk | 31.4 | -95.2 | -49.8 | -52.77 | -13 | -39.77 | H |
| 1.912100 | 60.34 | Pk | 31.4 | -95.2 | -49.8 | -53.26 | -13 | -40.26 | V |
| 2.546931 | 61.00 | Pk | 32.3 | -95.2 | -50.2 | -52.10 | -13 | -39.10 | V |
| 2.548095 | 61.33 | Pk | 32.3 | -95.2 | -50.19 | -51.76 | -13 | -38.76 | H |
| Low Channel, 680.5MHz | | | | | | | | | |
| 1.286666 | 61.20 | Pk | 28.9 | -95.2 | -49.8 | -54.90 | -13 | -41.90 | H |
| 1.286823 | 60.82 | Pk | 28.9 | -95.2 | -49.8 | -55.28 | -13 | -42.28 | V |
| 1.935695 | 60.80 | Pk | 31.4 | -95.2 | -49.8 | -52.80 | -13 | -39.80 | V |
| 1.937425 | 61.01 | Pk | 31.4 | -95.2 | -49.8 | -52.59 | -13 | -39.59 | H |
| 2.581649 | 61.28 | Pk | 32.2 | -95.2 | -50.0 | -51.68 | -13 | -38.68 | H |
| 2.584829 | 60.64 | Pk | 32.2 | -95.2 | -49.9 | -52.26 | -13 | -39.26 | V |
| Low Channel, 688MHz | | | | | | | | | |
| 1.309572 | 59.47 | Pk | 28.9 | -95.2 | -49.7 | -56.53 | -13 | -43.53 | H |
| 1.308856 | 59.22 | Pk | 28.9 | -95.2 | -49.7 | -56.78 | -13 | -43.78 | V |
| 1.955499 | 61.92 | Pk | 31.4 | -95.2 | -49.7 | -51.58 | -13 | -38.58 | V |
| 1.955987 | 61.81 | Pk | 31.4 | -95.2 | -49.7 | -51.69 | -13 | -38.69 | H |
| 2.60705 | 61.60 | Pk | 32.2 | -95.2 | -49.6 | -51.00 | -13 | -38.00 | H |
| 2.612774 | 60.81 | Pk | 32.2 | -95.2 | -49.5 | -51.69 | -13 | -38.69 | V |

BPSK 5G NR n71 (20.0MHZ BANDWIDTH)

| | |
|----------------|----------------|
| Project #: | 149822484 |
| Date: | 2024-04-15 |
| Test Engineer: | 104996 |
| Configuration: | EUT only |
| Mode | N71 BPSK 20MHz |
| Chamber #: | 03-RDE-B |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 230300 ACF (dB/m) 3mH | EIRP CF | Amp/Cbl (dB) | Corrected Reading (dBm) | Harmonics limit | Margin (dB) | Polarity |
|------------------------------|----------------------|-----|-----------------------|---------|--------------|-------------------------|-----------------|-------------|----------|
| Low Channel, 673MHz | | | | | | | | | |
| 1.326446 | 61.95 | Pk | 28.9 | -95.2 | -49.7 | -54.09 | -13 | -41.09 | H |
| 1.329057 | 62.05 | Pk | 28.9 | -95.2 | -49.8 | -54.05 | -13 | -41.05 | V |
| 1.992496 | 60.49 | Pk | 31.4 | -95.2 | -49.8 | -53.11 | -13 | -40.11 | V |
| 1.992546 | 60.94 | Pk | 31.4 | -95.2 | -49.8 | -52.66 | -13 | -39.66 | H |
| 2.650595 | 60.49 | Pk | 32.3 | -95.2 | -49.1 | -51.51 | -13 | -38.51 | V |
| 2.651751 | 60.72 | Pk | 32.3 | -95.2 | -49.1 | -51.28 | -13 | -38.28 | H |
| Mid Channel, 680.5MHz | | | | | | | | | |
| 1.342476 | 63.71 | Pk | 28.9 | -95.2 | -49.8 | -52.39 | -13 | -39.39 | H |
| 2.684772 | 59.30 | Pk | 32.3 | -95.2 | -48.82 | -52.42 | -13 | -39.42 | H |
| 1.342212 | 66.88 | Pk | 28.9 | -95.2 | -49.8 | -49.22 | -13 | -36.22 | V |
| 2.679235 | 59.30 | Pk | 32.3 | -95.2 | -48.9 | -52.50 | -13 | -39.50 | V |
| 2.009539 | 61.44 | Pk | 31.4 | -95.2 | -49.8 | -52.11 | -13 | -39.11 | H |
| 2.011284 | 61.45 | Pk | 31.5 | -95.2 | -49.8 | -52.05 | -13 | -39.05 | V |
| High Channel, 688MHz | | | | | | | | | |
| 1.000000 | 60.04 | Pk | 27.6 | -95.2 | -48.5 | -56.06 | -13 | -43.06 | H |
| 2.712509 | 59.58 | Pk | 32.3 | -95.2 | -49.1 | -52.37 | -13 | -39.37 | H |
| 1.360375 | 59.37 | Pk | 28.8 | -95.2 | -49.9 | -56.93 | -13 | -43.93 | V |
| 2.711606 | 59.87 | Pk | 32.3 | -95.2 | -49.0 | -52.03 | -13 | -39.03 | V |
| 2.034786 | 59.84 | Pk | 31.5 | -95.2 | -49.9 | -53.76 | -13 | -40.76 | H |
| 2.035359 | 59.98 | Pk | 31.5 | -95.2 | -49.9 | -53.58 | -13 | -40.58 | V |

10.3. FIELD STRENGTH OF SPURIOUS RADIATION, ANT3

TEST PROCEDURE

KDB 971168 D01 /D02

All tests below 1GHz were done with a Resolution Bandwidth of 100kHz, and a Video Bandwidth of 300kHz.

RESULTS

10.3.1. LTE BAND 7 AND 5G NR n7

LIMITS

FCC: §27.53 (m)

At least 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.

QPSK LTE BAND 7 (20.0MHZ BANDWIDTH)

| | |
|----------------|-------------------|
| Project #: | 14982489 |
| Date: | 2024-03-19 |
| Test Engineer: | 32145 |
| Configuration: | EUT only |
| Mode | LTE B7 QPSK 20MHz |
| Chamber #: | 03-RDE-A |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 200897 ACF 3m (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | LIMIT | Margin (dB) | Polarity |
|------------------------------|----------------------|-----|----------------------|---------|----------------|-------------------------|-------|-------------|----------|
| Low Channel, 2510MHz | | | | | | | | | |
| 5.010000 | 56.30 | Pk | 33.9 | -95.2 | -47.37 | -52.37 | -25 | -27.37 | H |
| 5.013000 | 55.53 | Pk | 33.9 | -95.2 | -47.38 | -53.15 | -25 | -28.15 | V |
| 7.496500 | 53.34 | Pk | 35.7 | -95.2 | -45.30 | -51.46 | -25 | -26.46 | V |
| 7.506500 | 55.11 | Pk | 35.7 | -95.2 | -45.26 | -49.65 | -25 | -24.65 | H |
| 10.057500 | 55.46 | Pk | 37.3 | -95.2 | -45.47 | -47.91 | -25 | -22.91 | H |
| 10.066500 | 54.92 | Pk | 37.3 | -95.2 | -45.65 | -48.63 | -25 | -23.63 | V |
| Mid Channel, 2535MHz | | | | | | | | | |
| 5.059000 | 56.69 | Pk | 33.9 | -95.2 | -47.76 | -52.37 | -25 | -27.37 | H |
| 5.077000 | 56.13 | Pk | 33.9 | -95.2 | -47.87 | -53.04 | -25 | -28.04 | V |
| 7.687500 | 54.10 | Pk | 35.7 | -95.2 | -45.43 | -50.83 | -25 | -25.83 | V |
| 7.713500 | 54.38 | Pk | 35.8 | -95.2 | -45.36 | -50.38 | -25 | -25.38 | H |
| 10.124500 | 55.59 | Pk | 37.4 | -95.2 | -45.83 | -48.04 | -25 | -23.04 | H |
| 10.129000 | 55.34 | Pk | 37.4 | -95.2 | -45.86 | -48.32 | -25 | -23.32 | V |
| High Channel, 2560MHz | | | | | | | | | |
| 5.123000 | 56.97 | Pk | 34.1 | -95.2 | -48.04 | -52.17 | -25 | -27.17 | V |
| 5.141000 | 56.40 | Pk | 34.1 | -95.2 | -47.88 | -52.58 | -25 | -27.58 | H |
| 7.599500 | 55.58 | Pk | 35.7 | -95.2 | -45.95 | -49.87 | -25 | -24.87 | V |
| 7.622500 | 55.13 | Pk | 35.7 | -95.2 | -45.90 | -50.27 | -25 | -25.27 | H |
| 10.228500 | 54.91 | Pk | 37.5 | -95.2 | -44.68 | -47.47 | -25 | -22.47 | V |
| 10.2415 | 54.65 | Pk | 37.5 | -95.2 | -44.50 | -47.55 | -25 | -22.55 | H |

BPSK 5G NR n7 (40.0MHZ BANDWIDTH)

| | |
|----------------|---------------------|
| Project #: | 14982484 |
| Date: | 2024-04-12 |
| Test Engineer: | 104996 |
| Configuration: | EUT only |
| Mode | 5G NR n7 BPSK 40MHz |
| Chamber #: | 03-RDE-B |

| Frequency (MHz) | Meter Reading (dBuV) | Det | 230300 ACF (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | LIMIT | Margin (dB) | Polarity |
|------------------------------|----------------------|-----|-------------------|---------|----------------|-------------------------|-------|-------------|----------|
| Low Channel, 2520MHz | | | | | | | | | |
| 5.001268 | 58.79 | Pk | 34.1 | -95.2 | -49.47 | -51.78 | -25 | -26.78 | H |
| 7.501889 | 57.47 | Pk | 36.0 | -95.2 | -48.10 | -49.83 | -25 | -24.83 | H |
| 5.002467 | 58.58 | Pk | 34.1 | -95.2 | -49.40 | -51.92 | -25 | -26.92 | V |
| 7.502061 | 57.81 | Pk | 36.0 | -95.2 | -48.09 | -49.48 | -25 | -24.48 | V |
| 9.999474 | 58.30 | Pk | 37.5 | -95.2 | -48.05 | -47.45 | -25 | -22.45 | V |
| 10.001736 | 58.64 | Pk | 37.5 | -95.2 | -48.10 | -47.16 | -25 | -22.16 | H |
| Mid Channel, 2535MHz | | | | | | | | | |
| 5.030500 | 55.17 | Pk | 34.2 | -95.2 | -49.45 | -55.28 | -25 | -30.28 | H |
| 7.545500 | 53.50 | Pk | 36.0 | -95.2 | -48.10 | -53.80 | -25 | -28.80 | H |
| 5.030500 | 56.07 | Pk | 34.2 | -95.2 | -49.45 | -54.38 | -25 | -29.38 | V |
| 7.545500 | 54.97 | Pk | 36.0 | -95.2 | -48.10 | -52.33 | -25 | -27.33 | V |
| 10.060500 | 56.10 | Pk | 37.6 | -95.2 | -48.35 | -49.85 | -25 | -24.85 | H |
| 10.060500 | 56.54 | Pk | 37.6 | -95.2 | -48.35 | -49.41 | -25 | -24.41 | V |
| High Channel, 2550MHz | | | | | | | | | |
| 5.061085 | 59.58 | Pk | 34.2 | -95.2 | -49.51 | -50.93 | -25 | -25.93 | H |
| 7.590408 | 57.77 | Pk | 35.9 | -95.2 | -48.36 | -49.89 | -25 | -24.89 | H |
| 5.063891 | 59.17 | Pk | 34.2 | -95.2 | -49.60 | -51.43 | -25 | -26.43 | V |
| 7.589120 | 57.92 | Pk | 35.9 | -95.2 | -48.40 | -49.78 | -25 | -24.78 | V |
| 10.117921 | 58.62 | Pk | 37.6 | -95.2 | -48.69 | -47.67 | -25 | -22.67 | V |
| 10.119569 | 59.46 | Pk | 37.6 | -95.2 | -48.70 | -46.84 | -25 | -21.84 | H |

10.3.2. LTE BAND 25 AND 5G NR n25

LIMITS

FCC: §24.238(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.

QPSK LTE BAND 25 (20.0MHZ BANDWIDTH)

| | |
|----------------|--------------------|
| Project #: | 14982484 |
| Date: | 2024-04-05 |
| Test Engineer: | 12501 |
| Configuration: | EUT only |
| Mode | LTE B25 QPSK 20MHz |
| Chamber #: | 03-RDE-B |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 230300 ACF (dB/m) | EIRP CF | Amp/Cbl (dB) | Corrected Reading (dBm) | Harmonics limit | Margin (dB) | Polarity |
|-------------------------------|----------------------|-----|-------------------|---------|--------------|-------------------------|-----------------|-------------|----------|
| Low Channel, 1860MHz | | | | | | | | | |
| 3.707500 | 54.99 | Pk | 33.5 | -95.2 | -47.15 | -53.86 | -13 | -40.86 | H |
| 7.437500 | 56.56 | Pk | 35.9 | -95.2 | -47.90 | -50.64 | -13 | -37.64 | H |
| 3.700500 | 55.62 | Pk | 33.5 | -95.2 | -47.20 | -53.28 | -13 | -40.28 | V |
| 7.438000 | 56.54 | Pk | 35.9 | -95.2 | -47.90 | -50.66 | -13 | -37.66 | V |
| 5.553500 | 58.26 | Pk | 34.4 | -95.2 | -48.60 | -51.14 | -13 | -38.14 | H |
| 5.553294 | 61.74 | Pk | 34.4 | -95.2 | -48.60 | -47.66 | -13 | -34.66 | V |
| Mid Channel, 1882.5MHz | | | | | | | | | |
| 3.766500 | 56.24 | Pk | 33.6 | -95.2 | -47.8 | -53.16 | -13 | -40.16 | H |
| 7.541000 | 56.16 | Pk | 36.0 | -95.2 | -47.8 | -50.84 | -13 | -37.84 | H |
| 3.764500 | 56.33 | Pk | 33.6 | -95.2 | -47.7 | -52.97 | -13 | -39.97 | V |
| 7.511000 | 56.21 | Pk | 36.0 | -95.2 | -48.2 | -51.19 | -13 | -38.19 | V |
| 5.620500 | 56.31 | Pk | 34.4 | -95.2 | -48.5 | -52.99 | -13 | -39.99 | H |
| 5.621000 | 60.24 | Pk | 34.4 | -95.2 | -48.5 | -49.06 | -13 | -36.06 | V |
| High Channel, 1905MHz | | | | | | | | | |
| 3.820000 | 57.36 | Pk | 33.6 | -95.2 | -47.8 | -52.04 | -13 | -39.04 | H |
| 7.616500 | 55.33 | Pk | 35.9 | -95.2 | -47.2 | -51.17 | -13 | -38.17 | H |
| 3.801250 | 56.32 | Pk | 33.6 | -95.2 | -47.9 | -53.18 | -13 | -40.18 | V |
| 7.605500 | 55.24 | Pk | 35.9 | -95.2 | -47.2 | -51.26 | -13 | -38.26 | V |
| 5.688500 | 57.18 | Pk | 34.4 | -95.2 | -48.2 | -51.82 | -13 | -38.82 | H |
| 5.688812 | 57.79 | Pk | 34.4 | -95.2 | -48.2 | -51.21 | -13 | -38.21 | V |

BPSK 5G NR n25 (40.0MHZ BANDWIDTH)

| | |
|----------------|----------------------|
| Project #: | 14982484 |
| Date: | 2024-04-12 |
| Test Engineer: | 104996 |
| Configuration: | EUT only |
| Mode | 5G NR n25 BPSK 40MHz |
| Chamber #: | 03-RDE-B |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 230300 ACF (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | LIMIT | Margin (dB) | Polarity |
|-------------------------------|----------------------|-----|-------------------|---------|----------------|-------------------------|-------|-------------|----------|
| Low Channel, 1870MHz | | | | | | | | | |
| 3.696821 | 57.11 | Pk | 33.5 | -95.2 | -47.2 | -51.79 | -13 | -38.79 | H |
| 7.398131 | 57.64 | Pk | 35.9 | -95.2 | -47.8 | -49.46 | -13 | -36.46 | H |
| 3.700595 | 57.41 | Pk | 33.5 | -95.2 | -47.2 | -51.49 | -13 | -38.49 | V |
| 7.400627 | 57.10 | Pk | 35.9 | -95.2 | -47.8 | -50.00 | -13 | -37.00 | V |
| 5.547311 | 58.46 | Pk | 34.4 | -95.2 | -48.7 | -51.04 | -13 | -38.04 | V |
| 5.551410 | 58.71 | Pk | 34.4 | -95.2 | -48.6 | -50.69 | -13 | -37.69 | H |
| Mid Channel, 1882.5MHz | | | | | | | | | |
| 3.726289 | 56.38 | Pk | 33.5 | -95.2 | -47.4 | -52.75 | -13 | -39.75 | H |
| 7.448084 | 58.06 | Pk | 35.9 | -95.2 | -48.0 | -49.24 | -13 | -36.24 | H |
| 3.723763 | 56.68 | Pk | 33.5 | -95.2 | -47.4 | -52.42 | -13 | -39.42 | V |
| 7.448564 | 58.23 | Pk | 35.9 | -95.2 | -48.0 | -49.07 | -13 | -36.07 | V |
| 5.586440 | 58.02 | Pk | 34.4 | -95.2 | -48.7 | -51.48 | -13 | -38.48 | H |
| 5.587856 | 57.64 | Pk | 34.4 | -95.2 | -48.7 | -51.86 | -13 | -38.86 | V |
| High Channel, 1895MHz | | | | | | | | | |
| 3.748693 | 56.97 | Pk | 33.6 | -95.2 | -47.7 | -52.33 | -13 | -39.33 | H |
| 7.500900 | 58.06 | Pk | 36.0 | -95.2 | -48.2 | -49.34 | -13 | -36.34 | H |
| 3.752267 | 57.05 | Pk | 33.6 | -95.2 | -47.7 | -52.25 | -13 | -39.25 | V |
| 7.498557 | 58.48 | Pk | 36.0 | -95.2 | -48.2 | -48.92 | -13 | -35.92 | V |
| 5.526041 | 58.67 | Pk | 34.4 | -95.2 | -48.7 | -50.83 | -13 | -37.83 | H |
| 5.526939 | 58.3 | Pk | 34.4 | -95.2 | -48.7 | -51.20 | -13 | -38.20 | V |

10.3.3. LTE BAND 30 AND 5G NR n30

LIMITS

FCC: §27.53 (a)

For mobile and portable stations operating in the 2305-2315 MHz: by a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2360 and 2365 MHz, and not less than $70 + 10 \log (P)$ dB above 2365 MHz.

QPSK LTE BAND 30 (10.0MHZ BANDWIDTH)

| | |
|----------------|--------------------|
| Project #: | 14982484 |
| Date: | 2024-06-19 |
| Test Engineer: | 32934 |
| Configuration: | EUT only |
| Mode | LTE B30 QPSK 10MHz |
| Chamber #: | 05-RDE-F |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 200897 ACF 3m (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | LIMIT | Margin (dB) | Polarity |
|-----------------------------|----------------------|-----|----------------------|---------|----------------|-------------------------|-------|-------------|----------|
| Mid Channel, 2310MHz | | | | | | | | | |
| 4.640721 | 45.99 | RMS | 34.0 | -95.2 | -48.93 | -64.14 | -40 | -24.14 | H |
| 6.941496 | 44.11 | RMS | 35.6 | -95.2 | -46.82 | -62.31 | -40 | -22.31 | H |
| 9.236191 | 42.93 | RMS | 36.3 | -95.2 | -45.50 | -61.47 | -40 | -21.47 | H |
| 4.611335 | 46.21 | RMS | 34.0 | -95.2 | -48.89 | -63.88 | -40 | -23.88 | V |
| 6.940483 | 44.11 | RMS | 35.6 | -95.2 | -46.83 | -62.32 | -40 | -22.32 | V |
| 9.214404 | 42.92 | RMS | 36.3 | -95.2 | -45.67 | -61.65 | -40 | -21.65 | V |

BPSK 5G NR n30 (10.0MHZ BANDWIDTH)

| | |
|----------------|----------------------|
| Project #: | 14982484 |
| Date: | 2024-06-27 |
| Test Engineer: | 106018 |
| Configuration: | EUT only |
| Mode | 5G NR n30 BPSK 10MHz |
| Chamber #: | 01-RDE-A |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 81886 ACF 3m (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | LIMIT | Margin (dB) | Polarity |
|-----------------------------|----------------------|-----|---------------------|---------|----------------|-------------------------|-------|-------------|----------|
| Mid Channel, 2310MHz | | | | | | | | | |
| 4.612500 | 23.57 | RMS | 34.0 | -95.2 | -23.2 | -60.83 | -40 | -20.83 | H |
| 6.412969 | 20.38 | RMS | 35.6 | -95.2 | -19.2 | -58.42 | -40 | -18.42 | H |
| 9.233906 | 20.36 | RMS | 36.1 | -95.2 | -16.8 | -55.54 | -40 | -15.54 | H |
| 4.632656 | 23.61 | RMS | 34.0 | -95.2 | -23.2 | -60.79 | -40 | -20.79 | V |
| 6.389531 | 21.09 | RMS | 35.6 | -95.2 | -19.4 | -57.91 | -40 | -17.91 | V |
| 9.248906 | 20.11 | RMS | 36.1 | -95.2 | -16.7 | -55.69 | -40 | -15.69 | V |

10.3.4. LTE BAND 41 AND 5G NR n41

LIMITS

FCC: §27.53 (m)

At least $55 + 10 \log (P)$ 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.

QPSK LTE BAND 41 (20.0MHZ BANDWIDTH)

| | |
|----------------|--------------------|
| Project #: | 14982484 |
| Date: | 2024-04-15 |
| Test Engineer: | 32545 |
| Configuration: | EUT only |
| Mode | LTE B41 QPSK 20MHz |
| Chamber #: | 02-RDE-E |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 230300 ACF (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | LIMIT | Margin (dB) | Polarity |
|------------------------------|----------------------|-----|-------------------|---------|----------------|-------------------------|-------|-------------|----------|
| Low Channel, 2506MHz | | | | | | | | | |
| 5.180000 | 53.93 | Pk | 34.4 | -95.2 | -47.26 | -54.13 | -25 | -29.13 | H |
| 5.180000 | 54.78 | Pk | 34.4 | -95.2 | -47.26 | -53.28 | -25 | -28.28 | V |
| 7.770500 | 51.63 | Pk | 35.9 | -95.2 | -45.31 | -52.98 | -25 | -27.98 | H |
| 7.770500 | 52.30 | Pk | 35.9 | -95.2 | -45.31 | -52.31 | -25 | -27.31 | V |
| 10.359500 | 53.53 | Pk | 37.6 | -95.2 | -44.11 | -48.18 | -25 | -23.18 | V |
| 10.361000 | 53.17 | Pk | 37.6 | -95.2 | -44.03 | -48.46 | -25 | -23.46 | H |
| Mid Channel, 2593MHz | | | | | | | | | |
| 5.087000 | 54.20 | Pk | 34.2 | -95.2 | -47.53 | -54.33 | -25 | -29.33 | H |
| 7.629000 | 52.82 | Pk | 35.8 | -95.2 | -45.63 | -52.21 | -25 | -27.21 | H |
| 5.087000 | 53.55 | Pk | 34.2 | -95.2 | -47.53 | -54.98 | -25 | -29.98 | V |
| 7.629000 | 52.65 | Pk | 35.8 | -95.2 | -45.63 | -52.38 | -25 | -27.38 | V |
| 10.172500 | 53.32 | Pk | 37.5 | -95.2 | -44.96 | -49.34 | -25 | -24.34 | H |
| 10.173000 | 53.06 | Pk | 37.5 | -95.2 | -44.95 | -49.59 | -25 | -24.59 | V |
| High Channel, 2680MHz | | | | | | | | | |
| 5.180500 | 52.41 | Pk | 34.4 | -95.2 | -47.26 | -55.65 | -25 | -30.65 | H |
| 5.180500 | 52.65 | Pk | 34.4 | -95.2 | -47.26 | -55.41 | -25 | -30.41 | V |
| 7.770250 | 51.77 | Pk | 35.9 | -95.2 | -45.30 | -52.83 | -25 | -27.83 | H |
| 7.770500 | 51.98 | Pk | 35.9 | -95.2 | -45.31 | -52.63 | -25 | -27.63 | V |
| 10.360500 | 53.00 | Pk | 37.6 | -95.2 | -44.05 | -48.65 | -25 | -23.65 | H |
| 10.360500 | 53.67 | Pk | 37.6 | -95.2 | -44.05 | -47.98 | -25 | -22.98 | V |

BPSK LTE BAND n41 (100.0MHZ BANDWIDTH)

| | |
|----------------|-----------------------|
| Project #: | 14982484 |
| Date: | 2024-04-15 |
| Test Engineer: | 32545 |
| Configuration: | EUT only |
| Mode | 5G NR n41 BPSK 100MHz |
| Chamber #: | 02-RDE-E |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 206807 ACF (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | LIMIT | Margin (dB) | Polarity |
|------------------------------|----------------------|-----|-------------------|---------|----------------|-------------------------|-------|-------------|----------|
| Low Channel, 2546MHz | | | | | | | | | |
| 5.180000 | 53.93 | Pk | 34.4 | -95.2 | -47.26 | -54.13 | -25 | -29.13 | H |
| 5.180000 | 54.78 | Pk | 34.4 | -95.2 | -47.26 | -53.28 | -25 | -28.28 | V |
| 7.770500 | 51.63 | Pk | 35.9 | -95.2 | -45.31 | -52.98 | -25 | -27.98 | H |
| 7.770500 | 52.30 | Pk | 35.9 | -95.2 | -45.31 | -52.31 | -25 | -27.31 | V |
| 10.359500 | 53.53 | Pk | 37.6 | -95.2 | -44.11 | -48.18 | -25 | -23.18 | V |
| 10.361000 | 53.17 | Pk | 37.6 | -95.2 | -44.03 | -48.46 | -25 | -23.46 | H |
| Mid Channel, 2593MHz | | | | | | | | | |
| 5.087000 | 54.20 | Pk | 34.2 | -95.2 | -47.53 | -54.33 | -25 | -29.33 | H |
| 7.629000 | 52.82 | Pk | 35.8 | -95.2 | -45.63 | -52.21 | -25 | -27.21 | H |
| 5.087000 | 53.55 | Pk | 34.2 | -95.2 | -47.53 | -54.98 | -25 | -29.98 | V |
| 7.629000 | 52.65 | Pk | 35.8 | -95.2 | -45.63 | -52.38 | -25 | -27.38 | V |
| 10.172500 | 53.32 | Pk | 37.5 | -95.2 | -44.96 | -49.34 | -25 | -24.34 | H |
| 10.173000 | 53.06 | Pk | 37.5 | -95.2 | -44.95 | -49.59 | -25 | -24.59 | V |
| High Channel, 2640MHz | | | | | | | | | |
| 5.180500 | 52.41 | Pk | 34.4 | -95.2 | -47.26 | -55.65 | -25 | -30.65 | H |
| 5.180500 | 52.65 | Pk | 34.4 | -95.2 | -47.26 | -55.41 | -25 | -30.41 | V |
| 7.770250 | 51.77 | Pk | 35.9 | -95.2 | -45.30 | -52.83 | -25 | -27.83 | H |
| 7.770500 | 51.98 | Pk | 35.9 | -95.2 | -45.31 | -52.63 | -25 | -27.63 | V |
| 10.360500 | 53.00 | Pk | 37.6 | -95.2 | -44.05 | -48.65 | -25 | -23.65 | H |
| 10.360500 | 53.67 | Pk | 37.6 | -95.2 | -44.05 | -47.98 | -25 | -22.98 | V |

10.3.5. LTE BAND 66 AND 5G NR n66

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.

QPSK LTE BAND 66 (20.0MHZ BANDWIDTH)

| | |
|------------|----------|
| Project #: | 14982484 |
|------------|----------|

| | |
|----------------|--------------------|
| Date: | 2024-03-25 |
| Test Engineer: | 12501 |
| Configuration: | EUT only |
| Mode | LTE B66 QPSK 20MHz |
| Chamber #: | 03-RDE-B |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 230300 ACF (dB/m) | EIRP CF | Amp/Cbl (dB) | Corrected Reading (dBm) | LIMIT | Margin (dB) | Polarity |
|------------------------------|----------------------|-----|-------------------|---------|--------------|-------------------------|-------|-------------|----------|
| Low Channel, 1720MHz | | | | | | | | | |
| 5.148000 | 57.16 | Pk | 34.3 | -95.2 | -49.4 | -53.14 | -13 | -40.14 | H |
| 3.422000 | 56.10 | Pk | 33.2 | -95.2 | -47.8 | -53.70 | -13 | -40.70 | V |
| 3.426500 | 57.27 | Pk | 33.2 | -95.2 | -47.7 | -52.43 | -13 | -39.43 | H |
| 5.151000 | 57.65 | Pk | 34.3 | -95.2 | -49.5 | -52.75 | -13 | -39.75 | V |
| 6.863000 | 55.64 | Pk | 35.7 | -95.2 | -47.4 | -51.26 | -13 | -38.26 | H |
| 6.878000 | 55.79 | Pk | 35.7 | -95.2 | -47.3 | -51.01 | -13 | -38.01 | V |
| Mid Channel, 1745MHz | | | | | | | | | |
| 3.483000 | 55.25 | Pk | 33.2 | -95.2 | -47.2 | -53.95 | -13 | -40.95 | H |
| 3.486500 | 55.93 | Pk | 33.2 | -95.2 | -47.3 | -53.37 | -13 | -40.37 | V |
| 5.208311 | 60.79 | Pk | 34.4 | -95.2 | -49.2 | -49.21 | -13 | -36.21 | V |
| 5.208330 | 63.16 | Pk | 34.4 | -95.2 | -49.2 | -46.84 | -13 | -33.84 | H |
| 7.015000 | 55.30 | Pk | 35.8 | -95.2 | -47.3 | -51.40 | -13 | -38.40 | H |
| 7.048000 | 56.40 | Pk | 35.8 | -95.2 | -47.6 | -50.60 | -13 | -37.60 | V |
| High Channel, 1770MHz | | | | | | | | | |
| 3.552000 | 54.98 | Pk | 33.3 | -95.2 | -47.2 | -54.12 | -13 | -41.12 | H |
| 3.539000 | 55.96 | Pk | 33.3 | -95.2 | -47.0 | -52.94 | -13 | -39.94 | V |
| 5.283303 | 61.64 | Pk | 34.4 | -95.2 | -49.1 | -48.26 | -13 | -35.26 | H |
| 5.283751 | 59.08 | Pk | 34.4 | -95.2 | -49.1 | -50.82 | -13 | -37.82 | V |
| 7.074000 | 55.98 | Pk | 35.8 | -95.2 | -47.8 | -51.22 | -13 | -38.22 | V |
| 7.088500 | 55.98 | Pk | 35.8 | -95.2 | -47.8 | -51.22 | -13 | -38.22 | H |

BPSK 5G NR n66 (40.0MHZ BANDWIDTH)

| | |
|----------------|----------------------|
| Project #: | 14982484 |
| Date: | 2024-04-16 |
| Test Engineer: | 104996 |
| Configuration: | EUT only |
| Mode | 5G NR n66 BPSK 40MHz |
| Chamber #: | 03-RDE-B |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 230300_ACF (dB/m) | EIRP CF | Amp/Cbl (dB) | Corrected Reading (dBm) | LIMIT | Margin (dB) | Polarity |
|------------------------------|----------------------|-----|-------------------|---------|--------------|-------------------------|-------|-------------|----------|
| Low Channel, 1730MHz | | | | | | | | | |
| 5.126617 | 58.91 | Pk | 34.3 | -95.2 | -49.5 | -51.45 | -13 | -38.45 | H |
| 5.131353 | 58.75 | Pk | 34.3 | -95.2 | -49.4 | -51.55 | -13 | -38.55 | V |
| 3.420257 | 58.32 | Pk | 33.2 | -95.2 | -47.8 | -51.48 | -13 | -38.48 | V |
| 3.423271 | 57.69 | Pk | 33.2 | -95.2 | -47.77 | -52.08 | -13 | -39.08 | H |
| 6.841426 | 56.99 | Pk | 35.7 | -95.2 | -47.5 | -50.01 | -13 | -37.01 | H |
| 6.843283 | 56.82 | Pk | 35.7 | -95.2 | -47.6 | -50.28 | -13 | -37.28 | V |
| Mid Channel, 1745MHz | | | | | | | | | |
| 3.450639 | 58.39 | Pk | 33.2 | -95.2 | -47.6 | -51.17 | -13 | -38.17 | V |
| 3.455324 | 58.28 | Pk | 33.2 | -95.2 | -47.6 | -51.32 | -13 | -38.32 | H |
| 5.179377 | 59.06 | Pk | 34.4 | -95.2 | -49.4 | -51.14 | -13 | -38.14 | H |
| 5.181245 | 58.94 | Pk | 34.4 | -95.2 | -49.4 | -51.26 | -13 | -38.26 | V |
| 6.900717 | 57.03 | Pk | 35.7 | -95.2 | -47.0 | -49.47 | -13 | -36.47 | H |
| 6.900938 | 56.68 | Pk | 35.7 | -95.2 | -47.0 | -49.82 | -13 | -36.82 | V |
| High Channel, 1760MHz | | | | | | | | | |
| 3.479062 | 58.30 | Pk | 33.2 | -95.2 | -47.3 | -51.00 | -13 | -38.00 | V |
| 3.480864 | 57.72 | Pk | 33.2 | -95.2 | -47.2 | -51.49 | -13 | -38.49 | H |
| 5.220921 | 58.26 | Pk | 34.4 | -95.2 | -49.1 | -51.64 | -13 | -38.64 | V |
| 5.22148 | 58.46 | Pk | 34.4 | -95.2 | -49.1 | -51.44 | -13 | -38.44 | H |
| 6.960536 | 57.71 | Pk | 35.7 | -95.2 | -46.8 | -48.59 | -13 | -35.59 | V |
| 6.961594 | 56.84 | Pk | 35.7 | -95.2 | -46.8 | -49.46 | -13 | -36.46 | H |

10.3.6. 5G NR n70

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.

BPSK 5G NR n70 (15.0MHZ BANDWIDTH based on 5G NR n70 maximum frequency range)

| | |
|----------------|----------------------|
| Project #: | 14982484 |
| Date: | 2024-04-23 |
| Test Engineer: | 12491 |
| Configuration: | EUT only |
| Mode | 5G NR n70 BPSK 15MHz |
| Chamber #: | 01-RDE-B |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 226671 ACF (dB/m) | EIRP CF | Amp/Cbl (dB) | Corrected Reading (dBm) | LIMIT | Margin (dB) | Polarity |
|-------------------------------|----------------------|-----|-------------------|---------|--------------|-------------------------|-------|-------------|----------|
| Mid Channel, 1702.5MHz | | | | | | | | | |
| 3.390469 | 38.76 | Pk | 32.8 | -95.2 | -33.09 | -56.73 | -13 | -43.73 | H |
| 3.390469 | 40.14 | Pk | 32.8 | -95.2 | -33.09 | -55.35 | -13 | -42.35 | V |
| 5.085469 | 36.36 | Pk | 34.1 | -95.2 | -30.55 | -55.29 | -13 | -42.29 | H |
| 5.085469 | 36.32 | Pk | 34.1 | -95.2 | -30.55 | -55.33 | -13 | -42.33 | V |
| 6.780000 | 33.69 | Pk | 35.6 | -95.2 | -27.00 | -52.91 | -13 | -39.91 | H |
| 6.780000 | 32.92 | Pk | 35.6 | -95.2 | -27.00 | -53.68 | -13 | -40.68 | V |

10.4. FIELD STRENGTH OF SPURIOUS RADIATION, ANT4

TEST PROCEDURE

KDB 971168 D01 /D02

All tests below 1GHz were done with a Resolution Bandwidth of 100kHz, and a Video Bandwidth of 300kHz.

RESULTS

10.4.1. LTE BAND 7 AND 5G NR n7

LIMITS

FCC: §27.53 (m)

At least $55 + 10 \log (P)$ 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.

QPSK LTE BAND 7 (20.0MHZ BANDWIDTH)

| | |
|----------------|-------------------|
| Project #: | 14982489 |
| Date: | 2024-04-05 |
| Test Engineer: | 12501 |
| Configuration: | EUT only |
| Mode | LTE B7 QPSK 20MHz |
| Chamber #: | 03-RDE-B |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 230300 ACF(dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | LIMIT | Margin (dB) | Polarity |
|------------------------------|----------------------|-----|------------------|---------|----------------|-------------------------|-------|-------------|----------|
| Low Channel, 2510MHz | | | | | | | | | |
| 5.024000 | 54.94 | Pk | 34.2 | -95.2 | -49.6 | -55.66 | -25 | -30.66 | H |
| 7.535000 | 54.55 | Pk | 36.0 | -95.2 | -48.0 | -52.65 | -25 | -27.65 | H |
| 5.033000 | 55.70 | Pk | 34.2 | -95.2 | -49.5 | -54.80 | -25 | -29.80 | V |
| 7.548000 | 53.49 | Pk | 36.0 | -95.2 | -48.1 | -53.81 | -25 | -28.81 | V |
| 10.038000 | 56.51 | Pk | 37.5 | -95.2 | -48.1 | -49.29 | -25 | -24.29 | H |
| 10.055000 | 55.45 | Pk | 37.6 | -95.2 | -48.2 | -50.35 | -25 | -25.35 | V |
| Mid Channel, 2535MHz | | | | | | | | | |
| 5.076000 | 55.69 | Pk | 34.2 | -95.2 | -49.6 | -54.91 | -25 | -29.91 | H |
| 7.600000 | 56.02 | Pk | 36.0 | -95.2 | -48.4 | -51.58 | -25 | -26.58 | H |
| 5.076000 | 54.96 | Pk | 34.2 | -95.2 | -49.6 | -55.64 | -25 | -30.64 | V |
| 7.600000 | 54.86 | Pk | 36.0 | -95.2 | -48.4 | -52.74 | -25 | -27.74 | V |
| 10.124500 | 55.99 | Pk | 37.6 | -95.2 | -48.7 | -50.31 | -25 | -25.31 | V |
| 10.142000 | 56.26 | Pk | 37.6 | -95.2 | -48.6 | -49.94 | -25 | -24.94 | H |
| High Channel, 2560MHz | | | | | | | | | |
| 5.120000 | 55.33 | Pk | 34.3 | -95.2 | -49.6 | -55.17 | -25 | -30.17 | H |
| 7.679000 | 53.97 | Pk | 35.9 | -95.2 | -47.8 | -53.13 | -25 | -28.13 | H |
| 5.120000 | 55.77 | Pk | 34.3 | -95.2 | -49.6 | -54.73 | -25 | -29.73 | V |
| 7.692000 | 53.33 | Pk | 35.9 | -95.2 | -47.6 | -53.57 | -25 | -28.57 | V |
| 10.247000 | 54.51 | Pk | 37.7 | -95.2 | -48.2 | -51.19 | -25 | -26.19 | H |
| 10.300000 | 54.13 | Pk | 37.8 | -95.2 | -48.3 | -51.57 | -25 | -26.57 | V |

BPSK 5G NR n7 (40.0MHZ BANDWIDTH)

| | |
|----------------|---------------------|
| Project #: | 14982484 |
| Date: | 2024-04-22 |
| Test Engineer: | 32145 |
| Configuration: | EUT only |
| Mode | 5G NR n7 BPSK 40MHz |
| Chamber #: | 03-RDE-A |

| Frequency (MHz) | Meter Reading (dBuV) | Det | 226673 ACF (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | LIMIT | Margin (dB) | Polarity |
|------------------------------|----------------------|-----|-------------------|---------|----------------|-------------------------|-------|-------------|----------|
| Low Channel, 2520MHz | | | | | | | | | |
| 5.043500 | 55.33 | Pk | 34.0 | -95.2 | -47.76 | -53.63 | -25 | -28.63 | H |
| 7.534000 | 54.37 | Pk | 35.9 | -95.2 | -45.34 | -50.27 | -25 | -25.27 | H |
| 5.006000 | 54.18 | Pk | 34.0 | -95.2 | -47.57 | -54.59 | -25 | -29.59 | V |
| 7.462500 | 52.43 | Pk | 35.8 | -95.2 | -45.56 | -52.53 | -25 | -27.53 | V |
| 10.011000 | 53.55 | Pk | 37.2 | -95.2 | -45.81 | -50.26 | -25 | -25.26 | V |
| 10.054000 | 53.83 | Pk | 37.2 | -95.2 | -45.60 | -49.77 | -25 | -24.77 | H |
| Mid Channel, 2535MHz | | | | | | | | | |
| 5.059500 | 55.02 | Pk | 34.0 | -95.2 | -47.80 | -53.98 | -25 | -28.98 | H |
| 7.598500 | 54.52 | Pk | 35.9 | -95.2 | -45.96 | -50.74 | -25 | -25.74 | H |
| 5.059500 | 54.26 | Pk | 34.0 | -95.2 | -47.80 | -54.74 | -25 | -29.74 | V |
| 7.558500 | 51.93 | Pk | 35.9 | -95.2 | -45.51 | -52.88 | -25 | -27.88 | V |
| 10.107500 | 53.01 | Pk | 37.3 | -95.2 | -45.66 | -50.55 | -25 | -25.55 | V |
| 10.140000 | 53.81 | Pk | 37.3 | -95.2 | -45.79 | -49.88 | -25 | -24.88 | H |
| High Channel, 2550MHz | | | | | | | | | |
| 5.103000 | 55.80 | Pk | 34.1 | -95.2 | -47.85 | -53.15 | -25 | -28.15 | H |
| 7.663500 | 51.95 | Pk | 35.9 | -95.2 | -45.56 | -52.91 | -25 | -27.91 | H |
| 5.075500 | 54.60 | Pk | 34.1 | -95.2 | -47.74 | -54.24 | -25 | -29.24 | V |
| 7.663500 | 51.86 | Pk | 35.9 | -95.2 | -45.56 | -53.00 | -25 | -28.00 | V |
| 10.194000 | 54.17 | Pk | 37.3 | -95.2 | -45.45 | -49.18 | -25 | -24.18 | V |
| 10.216000 | 52.94 | Pk | 37.4 | -95.2 | -44.98 | -49.84 | -25 | -24.84 | H |

10.4.2. LTE BAND 25 AND 5G NR n25

LIMITS

FCC: §24.238(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.

QPSK LTE BAND 25 (20.0MHZ BANDWIDTH)

| | |
|----------------|--------------------|
| Project #: | 14982484 |
| Date: | 2024-04-08 |
| Test Engineer: | 12501 |
| Configuration: | EUT only |
| Mode | LTE B25 QPSK 20MHz |
| Chamber #: | 03-RDE-B |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 230300 ACF (dB/m) | EIRP CF | Amp/Cbl (dB) | Corrected Reading (dBm) | LIMIT | Margin (dB) | Polarity |
|-------------------------------|----------------------|-----|-------------------|---------|--------------|-------------------------|-------|-------------|----------|
| Low Channel, 1860MHz | | | | | | | | | |
| 3.737000 | 55.35 | Pk | 33.5 | -95.2 | -47.6 | -53.95 | -13 | -40.95 | H |
| 7.446500 | 56.40 | Pk | 35.9 | -95.2 | -48.0 | -50.9 | -13 | -37.90 | H |
| 3.754000 | 55.45 | Pk | 33.6 | -95.2 | -47.7 | -53.85 | -13 | -40.85 | V |
| 7.469000 | 56.40 | Pk | 35.9 | -95.2 | -48.2 | -51.10 | -13 | -38.10 | V |
| 5.566500 | 56.03 | Pk | 34.4 | -95.2 | -48.6 | -53.37 | -13 | -40.37 | H |
| 5.569000 | 56.92 | Pk | 34.4 | -95.2 | -48.6 | -52.48 | -13 | -39.48 | V |
| Mid Channel, 1882.5MHz | | | | | | | | | |
| 3.762000 | 57.43 | Pk | 33.6 | -95.2 | -47.8 | -51.97 | -13 | -38.97 | H |
| 7.538000 | 56.11 | Pk | 36.0 | -95.2 | -47.8 | -50.89 | -13 | -37.89 | H |
| 3.746000 | 55.49 | Pk | 33.6 | -95.2 | -47.7 | -53.81 | -13 | -40.81 | V |
| 7.504000 | 55.89 | Pk | 36.0 | -95.2 | -48.2 | -51.51 | -13 | -38.51 | V |
| 5.652500 | 56.46 | Pk | 34.4 | -95.2 | -48.3 | -52.64 | -13 | -39.64 | H |
| 5.685000 | 56.43 | Pk | 34.4 | -95.2 | -48.3 | -52.67 | -13 | -39.67 | V |
| High Channel, 1905MHz | | | | | | | | | |
| 3.799000 | 56.66 | Pk | 33.6 | -95.2 | -47.9 | -52.84 | -13 | -39.84 | H |
| 7.607500 | 55.39 | Pk | 35.9 | -95.2 | -47.1 | -51.01 | -13 | -38.01 | H |
| 3.784500 | 57.08 | Pk | 33.6 | -95.2 | -48 | -52.52 | -13 | -39.52 | V |
| 7.616500 | 55.46 | Pk | 35.9 | -95.2 | -47.2 | -51.04 | -13 | -38.04 | V |
| 5.704500 | 55.90 | Pk | 34.5 | -95.2 | -48.2 | -53.00 | -13 | -40.00 | H |
| 5.726500 | 56.69 | Pk | 34.5 | -95.2 | -48 | -52.01 | -13 | -39.01 | V |

BPSK 5G NR n25 (40.0MHZ BANDWIDTH)

| | |
|----------------|----------------------|
| Project #: | 14982484 |
| Date: | 2024-06-29 |
| Test Engineer: | 106018 |
| Configuration: | EUT only |
| Mode | 5G NR n25 BPSK 40MHz |
| Chamber #: | 01-RDE-A |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 888188666 ACF (dB/m) | EIRP CF | Amp/Cbl (dB) | Corrected Reading (dBm) | LIMIT | Margin (dB) | Polarity |
|-------------------------------|----------------------|-----|----------------------|---------|--------------|-------------------------|-------|-------------|----------|
| Low Channel, 1870MHz | | | | | | | | | |
| 3.765469 | 35.94 | Pk | 33.2 | -95.2 | -23.7 | -49.76 | -13 | -36.76 | H |
| 3.782813 | 36.23 | Pk | 33.2 | -95.2 | -23.8 | -49.57 | -13 | -36.57 | V |
| 5.654531 | 33.11 | Pk | 34.6 | -95.2 | -20.4 | -47.89 | -13 | -34.89 | V |
| 5.667188 | 33.24 | Pk | 34.6 | -95.2 | -20.5 | -47.88 | -13 | -34.88 | H |
| 7.836094 | 31.41 | Pk | 35.8 | -95.2 | -17.2 | -45.18 | -13 | -32.18 | H |
| 7.838906 | 30.27 | Pk | 35.8 | -95.2 | -17.1 | -46.24 | -13 | -33.24 | V |
| Mid Channel, 1882.5MHz | | | | | | | | | |
| 3.768281 | 36.29 | Pk | 33.2 | -95.2 | -23.7 | -49.41 | -13 | -36.41 | V |
| 3.786563 | 35.69 | Pk | 33.2 | -95.2 | -23.9 | -50.21 | -13 | -37.21 | H |
| 5.676094 | 33.91 | Pk | 34.6 | -95.2 | -20.8 | -47.48 | -13 | -34.48 | V |
| 5.677500 | 34.37 | Pk | 34.6 | -95.2 | -20.8 | -46.98 | -13 | -33.98 | H |
| 7.531406 | 31.24 | Pk | 35.7 | -95.2 | -18.0 | -46.26 | -13 | -33.26 | V |
| 7.538906 | 30.67 | Pk | 35.7 | -95.2 | -17.7 | -46.53 | -13 | -33.53 | H |
| High Channel, 1895MHz | | | | | | | | | |
| 3.750469 | 35.55 | Pk | 33.1 | -95.2 | -23.6 | -50.15 | -13 | -37.15 | V |
| 3.766406 | 35.71 | Pk | 33.2 | -95.2 | -23.7 | -49.99 | -13 | -36.99 | H |
| 5.690625 | 32.60 | Pk | 34.6 | -95.2 | -21 | -49.00 | -13 | -36.00 | V |
| 5.692969 | 33.24 | Pk | 34.6 | -95.2 | -21 | -48.36 | -13 | -35.36 | H |
| 7.577344 | 30.29 | Pk | 35.7 | -95.2 | -17.27 | -46.48 | -13 | -33.48 | V |
| 7.59375 | 30.44 | Pk | 35.7 | -95.2 | -17.13 | -46.19 | -13 | -33.19 | H |

10.4.3. LTE BAND 30 AND 5G NR n30

LIMITS

FCC: §27.53 (a)

For mobile and portable stations operating in the 2305-2315 MHz: by a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2360 and 2365 MHz, and not less than $70 + 10 \log (P)$ dB above 2365 MHz.

QPSK LTE BAND 30 (10.0MHZ BANDWIDTH)

| | |
|----------------|--------------------|
| Project #: | 14982484 |
| Date: | 2024-06-19 |
| Test Engineer: | 32934 |
| Configuration: | EUT only |
| Mode | LTE B30 QPSK 10MHz |
| Chamber #: | 05-RDE-F |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 226674 ACF (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | LIMIT | Margin (dB) | Polarity |
|-----------------------------|----------------------|-----|-------------------|---------|----------------|-------------------------|-------|-------------|----------|
| Mid Channel, 2310MHz | | | | | | | | | |
| 6.916653 | 47.01 | RMS | 35.6 | -95.2 | -46.71 | -59.30 | -40 | -19.30 | H |
| 4.614375 | 45.49 | RMS | 34.0 | -95.2 | -48.90 | -64.61 | -40 | -24.61 | H |
| 9.243791 | 42.81 | RMS | 36.3 | -95.2 | -45.62 | -61.71 | -40 | -21.71 | H |
| 6.916666 | 49.25 | RMS | 35.6 | -95.2 | -46.71 | -57.06 | -40 | -17.06 | V |
| 4.587521 | 45.90 | RMS | 33.9 | -95.2 | -48.86 | -64.26 | -40 | -24.26 | V |
| 9.229604 | 42.92 | RMS | 36.3 | -95.2 | -45.60 | -61.58 | -40 | -21.58 | V |

BPSK 5G NR n30 (10.0MHZ BANDWIDTH)

| | |
|----------------|----------------------|
| Project #: | 14982484 |
| Date: | 2024-03-13 |
| Test Engineer: | 19226 |
| Configuration: | EUT only |
| Mode | 5G NR n30 BPSK 10MHz |
| Chamber #: | 04-RDE-R |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 81886 ACF 3m (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | LIMIT | Margin (dB) | Polarity |
|-----------------------------|----------------------|-----|---------------------|---------|----------------|-------------------------|-------|-------------|----------|
| Mid Channel, 2310MHz | | | | | | | | | |
| 4.629375 | 24.14 | RMS | 34.0 | -95.2 | -23.20 | -60.26 | -40 | -20.26 | H |
| 4.644844 | 23.76 | RMS | 34.0 | -95.2 | -23.30 | -60.74 | -40 | -20.74 | V |
| 6.916875 | 23.32 | RMS | 35.6 | -95.2 | -19.19 | -55.47 | -40 | -15.47 | H |
| 6.916875 | 20.73 | RMS | 35.6 | -95.2 | -19.19 | -58.06 | -40 | -18.06 | V |
| 9.224531 | 20.19 | RMS | 36.1 | -95.2 | -16.90 | -55.81 | -40 | -15.81 | H |
| 9.247500 | 20.22 | RMS | 36.1 | -95.2 | -16.70 | -55.58 | -40 | -15.58 | V |

10.4.4. LTE BAND 41 AND 5G NR n41

LIMITS

FCC: §27.53 (m)

At least $55 + 10 \log (P)$ 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.

QPSK LTE BAND 41 (20.0MHZ BANDWIDTH)

| | |
|----------------|--------------------|
| Project #: | 14982484 |
| Date: | 2024-04-05 |
| Test Engineer: | 12501 |
| Configuration: | EUT only |
| Mode | LTE B41 QPSK 20MHz |
| Chamber #: | 03-RDE-B |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 230300 ACF (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | LIMIT | Margin (dB) | Polarity |
|------------------------------|----------------------|-----|-------------------|---------|----------------|-------------------------|-------|-------------|----------|
| Low Channel, 2506MHz | | | | | | | | | |
| 5.015500 | 54.31 | Pk | 34.2 | -95.2 | -49.5 | -56.19 | -25 | -31.19 | H |
| 7.491500 | 59.34 | Pk | 35.9 | -95.2 | -48.1 | -48.06 | -25 | -23.06 | H |
| 5.007000 | 54.11 | Pk | 34.1 | -95.2 | -49.4 | -56.39 | -25 | -31.39 | V |
| 7.491500 | 58.22 | Pk | 35.9 | -95.2 | -48.1 | -49.18 | -25 | -24.18 | V |
| 10.020500 | 55.44 | Pk | 37.5 | -95.2 | -48.1 | -50.36 | -25 | -25.36 | H |
| 10.038000 | 56.02 | Pk | 37.5 | -95.2 | -48.1 | -49.78 | -25 | -24.78 | V |
| Mid Channel, 2593MHz | | | | | | | | | |
| 5.182000 | 56.14 | Pk | 34.4 | -95.2 | -49.3 | -53.96 | -25 | -28.96 | V |
| 5.191000 | 54.99 | Pk | 34.4 | -95.2 | -49.2 | -55.01 | -25 | -30.01 | H |
| 7.785000 | 54.07 | Pk | 36.0 | -95.2 | -47.4 | -52.53 | -25 | -27.53 | H |
| 7.812000 | 55.27 | Pk | 36.0 | -95.2 | -47.7 | -51.63 | -25 | -26.63 | V |
| 10.371000 | 55.36 | Pk | 37.8 | -95.2 | -48.0 | -50.04 | -25 | -25.04 | H |
| 10.388500 | 55.75 | Pk | 37.8 | -95.2 | -47.8 | -49.45 | -25 | -24.45 | V |
| High Channel, 2680MHz | | | | | | | | | |
| 5.363000 | 53.91 | Pk | 34.4 | -95.2 | -49.2 | -56.09 | -25 | -31.09 | H |
| 8.043000 | 52.92 | Pk | 36.1 | -95.2 | -47.3 | -53.48 | -25 | -28.48 | H |
| 10.715000 | 53.93 | Pk | 37.9 | -95.2 | -47.2 | -50.57 | -25 | -25.57 | H |
| 5.363000 | 54.24 | Pk | 34.4 | -95.2 | -49.2 | -55.76 | -25 | -30.76 | V |
| 8.043000 | 53.09 | Pk | 36.1 | -95.2 | -47.3 | -53.31 | -25 | -28.31 | V |
| 10.715000 | 54.50 | Pk | 37.9 | -95.2 | -47.2 | -50.00 | -25 | -25.00 | V |

BPSK LTE BAND n41 (100.0MHZ BANDWIDTH)

| | |
|----------------|-----------------------|
| Project #: | 14982484 |
| Date: | 2024-04-22 |
| Test Engineer: | 32990 |
| Configuration: | EUT only |
| Mode | 5G NR n41 BPSK 100MHz |
| Chamber #: | 03-RDE-A |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 226673 ACF (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | LIMIT | Margin (dB) | Polarity |
|------------------------------|----------------------|-----|-------------------|---------|----------------|-------------------------|-------|-------------|----------|
| Low Channel, 2546MHz | | | | | | | | | |
| 7.488500 | 52.25 | Pk | 35.8 | -95.2 | -45.40 | -52.55 | -25 | -27.55 | H |
| 7.488500 | 51.97 | Pk | 35.8 | -95.2 | -45.40 | -52.83 | -25 | -27.83 | V |
| 5.711000 | 54.58 | Pk | 34.6 | -95.2 | -46.56 | -52.58 | -25 | -27.58 | H |
| 5.712000 | 57.63 | Pk | 34.6 | -95.2 | -46.53 | -49.50 | -25 | -24.50 | V |
| 9.984000 | 55.31 | Pk | 37.2 | -95.2 | -45.87 | -48.56 | -25 | -23.56 | V |
| 9.984000 | 55.31 | Pk | 37.2 | -95.2 | -45.87 | -48.56 | -25 | -23.56 | V |
| Mid Channel, 2593MHz | | | | | | | | | |
| 7.629000 | 53.39 | Pk | 35.9 | -95.2 | -45.78 | -51.69 | -25 | -26.69 | H |
| 7.629000 | 52.25 | Pk | 35.9 | -95.2 | -45.78 | -52.83 | -25 | -27.83 | V |
| 5.236500 | 57.73 | Pk | 34.4 | -95.2 | -47.06 | -50.13 | -25 | -25.13 | V |
| 5.237000 | 54.72 | Pk | 34.4 | -95.2 | -47.06 | -53.14 | -25 | -28.14 | H |
| 10.172000 | 53.26 | Pk | 37.3 | -95.2 | -45.51 | -50.15 | -25 | -25.15 | H |
| 10.172000 | 54.81 | Pk | 37.3 | -95.2 | -45.51 | -48.60 | -25 | -23.60 | V |
| High Channel, 2640MHz | | | | | | | | | |
| 5.180000 | 53.90 | Pk | 34.3 | -95.2 | -47.36 | -54.36 | -25 | -29.36 | H |
| 5.180000 | 53.75 | Pk | 34.3 | -95.2 | -47.36 | -54.51 | -25 | -29.51 | V |
| 7.770000 | 52.79 | Pk | 35.9 | -95.2 | -45.16 | -51.67 | -25 | -26.67 | H |
| 7.770000 | 51.90 | Pk | 35.9 | -95.2 | -45.16 | -52.56 | -25 | -27.56 | V |
| 10.360500 | 53.09 | Pk | 37.5 | -95.2 | -45.32 | -49.93 | -25 | -24.93 | H |
| 10.360500 | 53.72 | Pk | 37.5 | -95.2 | -45.32 | -49.30 | -25 | -24.30 | V |

10.4.5. LTE BAND 66 AND 5G NR n66

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.

QPSK LTE BAND 66 (20.0MHZ BANDWIDTH)

| | |
|----------------|--------------------|
| Project #: | 14982484 |
| Date: | 2024-04-08 |
| Test Engineer: | 12501 |
| Configuration: | EUT only |
| Mode | LTE B66 QPSK 20MHz |
| Chamber #: | 03-RDE-B |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 230300 ACF (dB/m) | EIRP CF | Amp/Cbl (dB) | Corrected Reading (dBm) | LIMIT | Margin (dB) | Polarity |
|------------------------------|----------------------|-----|-------------------|---------|--------------|-------------------------|-------|-------------|----------|
| Low Channel, 1720MHz | | | | | | | | | |
| 3.599565 | 59.00 | Pk | 33.3 | -95.2 | -47.7 | -50.60 | -13 | -37.60 | H |
| 5.133126 | 66.96 | Pk | 34.3 | -95.2 | -49.4 | -43.34 | -13 | -30.34 | H |
| 3.600000 | 57.96 | Pk | 33.3 | -95.2 | -47.7 | -51.64 | -13 | -38.64 | V |
| 5.133244 | 68.42 | Pk | 34.3 | -95.2 | -49.4 | -41.88 | -13 | -28.88 | V |
| 6.840651 | 57.11 | Pk | 35.7 | -95.2 | -47.5 | -49.89 | -13 | -36.89 | V |
| 6.841747 | 57.11 | Pk | 35.7 | -95.2 | -47.5 | -49.89 | -13 | -36.89 | H |
| Mid Channel, 1745MHz | | | | | | | | | |
| 3.469613 | 58.39 | Pk | 33.2 | -95.2 | -47.4 | -51.01 | -13 | -38.01 | H |
| 3.471579 | 58.00 | Pk | 33.2 | -95.2 | -47.4 | -51.40 | -13 | -38.40 | V |
| 5.208105 | 62.85 | Pk | 34.4 | -95.2 | -49.2 | -47.15 | -13 | -34.15 | V |
| 5.208518 | 59.22 | Pk | 34.4 | -95.2 | -49.2 | -50.78 | -13 | -37.78 | H |
| 6.942166 | 57.61 | Pk | 35.7 | -95.2 | -46.7 | -48.59 | -13 | -35.59 | H |
| 6.943567 | 57.24 | Pk | 35.7 | -95.2 | -46.7 | -48.96 | -13 | -35.96 | V |
| High Channel, 1770MHz | | | | | | | | | |
| 3.531500 | 55.13 | Pk | 33.3 | -95.2 | -47.0 | -53.77 | -13 | -40.77 | H |
| 3.537500 | 54.84 | Pk | 33.3 | -95.2 | -47.1 | -54.11 | -13 | -41.11 | V |
| 5.283203 | 65.76 | Pk | 34.4 | -95.2 | -49.1 | -44.14 | -13 | -31.14 | H |
| 5.283251 | 69.60 | Pk | 34.4 | -95.2 | -49.1 | -40.30 | -13 | -27.30 | V |
| 7.085000 | 55.73 | Pk | 35.8 | -95.2 | -47.8 | -51.47 | -13 | -38.47 | H |
| 7.107500 | 57.32 | Pk | 35.8 | -95.2 | -47.7 | -49.78 | -13 | -36.78 | V |

BPSK 5G NR n66 (40.0MHZ BANDWIDTH)

| | |
|----------------|----------------------|
| Project #: | 14982484 |
| Date: | 2024-07-10 |
| Test Engineer: | 106018 |
| Configuration: | EUT only |
| Mode | 5G NR n66 BPSK 40MHz |
| Chamber #: | 01-RDE-A |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 81886_ACF (dB/m) | EIRP CF | Amp/Cbl (dB) | Corrected Reading (dBm) | LIMIT | Margin (dB) | Polarity |
|------------------------------|----------------------|-----|------------------|---------|--------------|-------------------------|-------|-------------|----------|
| Low Channel, 1730MHz | | | | | | | | | |
| 3.446719 | 36.33 | Pk | 32.7 | -95.2 | -24.90 | -51.07 | -13 | -38.07 | V |
| 3.468281 | 36.79 | Pk | 32.7 | -95.2 | -24.77 | -50.48 | -13 | -37.48 | H |
| 5.132032 | 36.83 | Pk | 34.2 | -95.2 | -21.60 | -45.77 | -13 | -32.77 | V |
| 5.132692 | 38.41 | Pk | 34.2 | -95.2 | -21.53 | -44.12 | -13 | -31.12 | H |
| 6.926719 | 31.46 | Pk | 35.7 | -95.2 | -19.00 | -47.04 | -13 | -34.04 | H |
| 6.953906 | 30.84 | Pk | 35.7 | -95.2 | -18.91 | -47.57 | -13 | -34.57 | V |
| Mid Channel, 1745MHz | | | | | | | | | |
| 3.492188 | 35.47 | Pk | 32.8 | -95.2 | -24.3 | -51.23 | -13 | -38.23 | V |
| 3.500156 | 35.57 | Pk | 32.8 | -95.2 | -24.22 | -51.05 | -13 | -38.05 | H |
| 5.177314 | 43.88 | Pk | 34.1 | -95.2 | -22.37 | -39.59 | -13 | -26.59 | H |
| 5.177482 | 40.50 | Pk | 34.1 | -95.2 | -22.35 | -42.95 | -13 | -29.95 | V |
| 6.977344 | 29.85 | Pk | 35.7 | -95.2 | -18.60 | -48.25 | -13 | -35.25 | V |
| 7.004531 | 30.48 | Pk | 35.6 | -95.2 | -18.20 | -47.32 | -13 | -34.32 | H |
| High Channel, 1760MHz | | | | | | | | | |
| 3.550781 | 34.74 | Pk | 32.9 | -95.2 | -23.78 | -51.34 | -13 | -38.34 | H |
| 3.556875 | 34.95 | Pk | 32.9 | -95.2 | -23.61 | -50.96 | -13 | -37.96 | V |
| 5.222327 | 37.61 | Pk | 34.2 | -95.2 | -22.2 | -45.59 | -13 | -32.59 | V |
| 5.222485 | 46.22 | Pk | 34.2 | -95.2 | -22.2 | -36.98 | -13 | -23.98 | H |
| 7.047188 | 29.78 | Pk | 35.6 | -95.2 | -18.0 | -47.82 | -13 | -34.82 | H |
| 7.064063 | 30.03 | Pk | 35.6 | -95.2 | -18.3 | -47.87 | -13 | -34.87 | V |

10.4.6. 5G NR n70

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.

BPSK 5G NR n70 (15.0MHZ BANDWIDTH based on 5G NR n70 maximum frequency range)

| | |
|----------------|----------------|
| Project #: | 14982484 |
| Date: | 2024-04-22 |
| Test Engineer: | 32145 |
| Configuration: | EUT only |
| Mode | N70 BPSK 15MHz |
| Chamber #: | 01-RDE-A |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 226673 ACF (dB/m) | EIRP CF | Amp/Cbl (dB) | Corrected Reading (dBm) | LIMIT | Margin (dB) | Polarity |
|------------------------|----------------------|-----|-------------------|---------|--------------|-------------------------|-------|-------------|----------|
| Mid Channel, 1702.5MHz | | | | | | | | | |
| 5.103000 | 54.14 | Pk | 34.1 | -95.2 | -47.58 | -54.54 | -13 | -41.54 | H |
| 5.097500 | 53.93 | Pk | 34.1 | -95.2 | -47.48 | -54.65 | -13 | -41.65 | V |
| 3.394000 | 54.04 | Pk | 32.8 | -95.2 | -46.92 | -55.28 | -13 | -42.28 | V |
| 3.405000 | 54.73 | Pk | 32.8 | -95.2 | -46.92 | -54.59 | -13 | -41.59 | H |
| 6.809500 | 53.73 | Pk | 35.8 | -95.2 | -44.85 | -50.52 | -13 | -37.52 | H |
| 6.831000 | 53.39 | Pk | 35.8 | -95.2 | -45.01 | -51.02 | -13 | -38.02 | V |

10.4.7. 5G NR n77 (FCC Part 27 3450-3550MHz)

LIMITS

FCC: §27.53

Emission limits

(n) 3.45 GHz Service. The following emission limits apply to stations transmitting in the 3450-3550 MHz band:

(2) For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

BPSK 5G NR n77 (100.0MHZ BANDWIDTH)

| | |
|----------------|-----------------------|
| Project #: | 14982484 |
| Date: | 2024-04-22 |
| Test Engineer: | 12491 |
| Configuration: | EUT only |
| Mode | 5G NR n77 BPSK 100MHz |
| Chamber #: | 01-RDE-B |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 226671 ACF (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | LIMIT | Margin (dB) | Polarity |
|-----------------------------|----------------------|-----|-------------------|---------|----------------|-------------------------|-------|-------------|----------|
| Mid Channel, 3500MHz | | | | | | | | | |
| 6.900000 | 33.14 | Pk | 35.6 | -95.2 | -26.6 | -53.06 | -13 | -40.06 | V |
| 6.900500 | 34.91 | Pk | 35.6 | -95.2 | -26.6 | -51.29 | -13 | -38.29 | H |
| 10.349500 | 29.89 | Pk | 37.5 | -95.2 | -24.7 | -52.51 | -13 | -39.51 | V |
| 10.350000 | 32.20 | Pk | 37.5 | -95.2 | -24.7 | -50.20 | -13 | -37.20 | H |
| 13.801000 | 28.43 | Pk | 38.8 | -95.2 | -19.7 | -47.67 | -13 | -34.67 | H |
| 13.801000 | 28.48 | Pk | 38.8 | -95.2 | -19.7 | -47.62 | -13 | -34.62 | V |

10.4.8. 5G NR n77 (FCC Part 27 3700-3980MHz)

LIMITS

FCC: §27.53

(1) 3.7 GHz Service. The following emission limits apply to stations transmitting in the 3700-3980 MHz band:

(2) For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

BPSK 5G NR n77 (100.0MHZ BANDWIDTH)

| | |
|----------------|-----------------------|
| Project #: | 14982484 |
| Date: | 2024-04-23 |
| Test Engineer: | 32145 |
| Configuration: | EUT only |
| Mode | 5G NR n77 BPSK 100MHz |
| Chamber #: | 03-RDE-A |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 226673 ACF (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | LIMIT | Margin (dB) | Polarity |
|------------------------------|----------------------|-----|-------------------|---------|----------------|-------------------------|-------|-------------|----------|
| Low Channel, 3750MHz | | | | | | | | | |
| 7.511882 | 55.20 | Pk | 35.8 | -95.2 | -46.00 | -50.20 | -13 | -37.20 | H |
| 11.251034 | 54.09 | Pk | 38.0 | -95.2 | -44.20 | -47.31 | -13 | -34.31 | H |
| 7.519450 | 55.13 | Pk | 35.8 | -95.2 | -45.98 | -50.25 | -13 | -37.25 | V |
| 11.213989 | 53.77 | Pk | 38.0 | -95.2 | -44.27 | -47.70 | -13 | -34.70 | V |
| 14.998551 | 52.70 | Pk | 39.7 | -95.2 | -42.37 | -45.17 | -13 | -32.17 | V |
| 15.010103 | 53.68 | Pk | 39.7 | -95.2 | -42.30 | -44.12 | -13 | -31.12 | H |
| Mid Channel, 3840MHz | | | | | | | | | |
| 7.696310 | 55.6 | Pk | 35.9 | -95.2 | -45.15 | -48.85 | -13 | -35.85 | H |
| 11.512340 | 54.14 | Pk | 38.2 | -95.2 | -43.49 | -46.35 | -13 | -33.35 | H |
| 15.407241 | 52.04 | Pk | 40.2 | -95.2 | -41.66 | -44.62 | -13 | -31.62 | H |
| 7.683165 | 54.16 | Pk | 35.9 | -95.2 | -45.07 | -50.21 | -13 | -37.21 | V |
| 11.485254 | 54.15 | Pk | 38.2 | -95.2 | -43.64 | -46.49 | -13 | -33.49 | V |
| 15.373781 | 51.64 | Pk | 40.1 | -95.2 | -41.57 | -45.03 | -13 | -32.03 | V |
| High Channel, 3930MHz | | | | | | | | | |
| 11.805912 | 52.62 | Pk | 38.6 | -95.2 | -43.26 | -47.24 | -13 | -34.24 | H |
| 15.739052 | 53.87 | Pk | 40.7 | -95.2 | -41.77 | -42.40 | -13 | -29.40 | H |
| 11.772452 | 53.09 | Pk | 38.5 | -95.2 | -43.07 | -46.68 | -13 | -33.68 | V |
| 15.716347 | 53.67 | Pk | 40.6 | -95.2 | -41.71 | -42.64 | -13 | -29.64 | V |
| 7.826964 | 54.86 | Pk | 35.9 | -95.2 | -45.61 | -50.05 | -13 | -37.05 | V |
| 7.867992 | 53.72 | Pk | 35.9 | -95.2 | -45.22 | -50.80 | -13 | -37.80 | H |

10.5. FIELD STRENGTH OF SPURIOUS RADIATION, ANT 7

TEST PROCEDURE

KDB 971168 D01 /D02

All tests below 1GHz were done with a Resolution Bandwidth of 100kHz, and a Video Bandwidth of 300kHz.

RESULTS

10.5.1. 5G NR n77 (FCC Part 27 3450-3550MHz)

LIMITS

FCC: §27.53

Emission limits

(n) 3.45 GHz Service. The following emission limits apply to stations transmitting in the 3450-3550 MHz band:

(2) For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

BPSK 5G NR n77 (100.0MHZ BANDWIDTH)

| | |
|----------------|-----------------------|
| Project #: | 14982484 |
| Date: | 2024-04-09 |
| Test Engineer: | 32545 |
| Configuration: | EUT only |
| Mode | 5G NR n77 BPSK 100MHz |
| Chamber #: | 02-RDE-E |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 206807 ACF (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | LIMIT | Margin (dB) | Polarity |
|-----------------------------|----------------------|-----|-------------------|---------|----------------|-------------------------|-------|-------------|----------|
| Mid Channel, 3500MHz | | | | | | | | | |
| 6.900335 | 42.93 | Pk | 35.7 | -95.2 | -44.09 | -60.66 | -13 | -47.66 | V |
| 6.900802 | 44.25 | Pk | 35.7 | -95.2 | -44.09 | -59.34 | -13 | -46.34 | H |
| 10.350405 | 44.28 | Pk | 37.5 | -95.2 | -44.46 | -57.88 | -13 | -44.88 | H |
| 10.350405 | 44.46 | Pk | 37.5 | -95.2 | -44.46 | -57.70 | -13 | -44.70 | V |
| 13.800007 | 43.59 | Pk | 38.8 | -95.2 | -42.26 | -55.07 | -13 | -42.07 | H |
| 13.800007 | 43.98 | Pk | 38.8 | -95.2 | -42.26 | -54.68 | -13 | -41.68 | V |

10.5.2. 5G NR n77 (FCC Part 27 3700-3980MHz)

LIMITS

FCC: §27.53

(1) 3.7 GHz Service. The following emission limits apply to stations transmitting in the 3700-3980 MHz band:

(2) For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

BPSK 5G NR n77 (100.0MHZ BANDWIDTH)

| | |
|----------------|-----------------------|
| Project #: | 14982484 |
| Date: | 2024-04-16 |
| Test Engineer: | 12491 |
| Configuration: | EUT only |
| Mode | 5G NR n77 BPSK 100MHz |
| Chamber #: | 01-RDE-B |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 226671 ACF (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | LIMIT | Margin (dB) | Polarity |
|------------------------------|----------------------|-----|-------------------|---------|----------------|-------------------------|-------|-------------|----------|
| Low Channel, 3750MHz | | | | | | | | | |
| 7.400000 | 33.60 | Pk | 35.5 | -95.2 | -26.1 | -52.20 | -13 | -39.20 | H |
| 7.400000 | 32.94 | Pk | 35.5 | -95.2 | -26.1 | -52.86 | -13 | -39.86 | V |
| 11.101000 | 30.55 | Pk | 37.8 | -95.2 | -22.9 | -49.75 | -13 | -36.75 | H |
| 11.101000 | 29.91 | Pk | 37.8 | -95.2 | -22.9 | -50.39 | -13 | -37.39 | V |
| 14.800000 | 28.03 | Pk | 39.4 | -95.2 | -19.8 | -47.57 | -13 | -34.57 | H |
| 14.800000 | 28.75 | Pk | 39.4 | -95.2 | -19.8 | -46.85 | -13 | -33.85 | V |
| Mid Channel, 3840MHz | | | | | | | | | |
| 7.582000 | 33.79 | Pk | 35.7 | -95.2 | -26.0 | -51.71 | -13 | -38.71 | H |
| 7.582000 | 32.43 | Pk | 35.7 | -95.2 | -26.0 | -53.07 | -13 | -40.07 | V |
| 11.370000 | 31.09 | Pk | 38.0 | -95.2 | -22.6 | -48.71 | -13 | -35.71 | H |
| 11.370000 | 30.10 | Pk | 38.0 | -95.2 | -22.6 | -49.70 | -13 | -36.70 | V |
| 15.160500 | 28.76 | Pk | 39.7 | -95.2 | -19.0 | -45.74 | -13 | -32.74 | H |
| 15.160500 | 28.67 | Pk | 39.7 | -95.2 | -19.0 | -45.83 | -13 | -32.83 | V |
| High Channel, 3930MHz | | | | | | | | | |
| 7.760500 | 34.31 | Pk | 35.8 | -95.2 | -26.6 | -51.64 | -13 | -38.64 | H |
| 7.760500 | 34.02 | Pk | 35.8 | -95.2 | -26.6 | -51.93 | -13 | -38.93 | V |
| 11.640500 | 30.39 | Pk | 38.4 | -95.2 | -22.1 | -48.46 | -13 | -35.46 | H |
| 11.640500 | 30.41 | Pk | 38.4 | -95.2 | -22.1 | -48.44 | -13 | -35.44 | V |
| 15.521000 | 28.71 | Pk | 40.4 | -95.2 | -18.3 | -44.39 | -13 | -31.39 | H |
| 15.521000 | 28.45 | Pk | 40.4 | -95.2 | -18.3 | -44.65 | -13 | -31.65 | V |

10.6. FIELD STRENGTH OF SPURIOUS RADIATION, ANT 8

TEST PROCEDURE

KDB 971168 D01 /D02

All tests below 1GHz were done with a Resolution Bandwidth of 100kHz, and a Video Bandwidth of 300kHz.

RESULTS

10.6.1. 5G NR n77 (FCC Part 27 3450-3550MHz)

LIMITS

FCC: §27.53

Emission limits

(n) 3.45 GHz Service. The following emission limits apply to stations transmitting in the 3450-3550 MHz band:

(2) For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

BPSK 5G NR n77 (100.0MHZ BANDWIDTH)

| | |
|----------------|-----------------------|
| Project #: | 14982484 |
| Date: | 2024-06-25 |
| Test Engineer: | 106018 |
| Configuration: | EUT only |
| Mode | 5G NR n77 BPSK 100MHz |
| Chamber #: | 01-RDE-A |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 81886 ACF 3m (dB/m) | T1792 3400-3800MHz BRf | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | LIMIT | Margin (dB) | Polarity |
|-----------------------------|----------------------|-----|---------------------|------------------------|---------|----------------|-------------------------|-------|-------------|----------|
| Mid Channel, 3500MHz | | | | | | | | | | |
| 6.997594 | 25.87 | Pk | 35.6 | .5 | -95.2 | -18.9 | -52.13 | -13 | -39.13 | H |
| 7.007288 | 25.57 | Pk | 35.6 | .4 | -95.2 | -19.0 | -52.63 | -13 | -39.63 | V |
| 10.496597 | 24.23 | Pk | 37.9 | .6 | -95.2 | -15.2 | -47.67 | -13 | -34.67 | V |
| 10.502766 | 24.53 | Pk | 37.9 | .6 | -95.2 | -15.3 | -47.47 | -13 | -34.47 | H |
| 13.992075 | 22.94 | Pk | 39.0 | .7 | -95.2 | -13.2 | -45.76 | -13 | -32.76 | H |
| 14.000006 | 23.02 | Pk | 39.0 | .7 | -95.2 | -13.2 | -45.68 | -13 | -32.68 | V |

10.6.2. 5G NR n77 (FCC Part 27 3700-3980MHz)

LIMITS

FCC: §27.53

(1) 3.7 GHz Service. The following emission limits apply to stations transmitting in the 3700-3980 MHz band:

(2) For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

BPSK 5G NR n77 (100.0MHZ BANDWIDTH)

| | |
|----------------|-----------------------|
| Project #: | 14982484 |
| Date: | 2024-04-19 |
| Test Engineer: | 12491 |
| Configuration: | EUT only |
| Mode | 5G NR n77 BPSK 100MHz |
| Chamber #: | 01-RDE-B |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 226671 ACF (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | LIMIT | Margin (dB) | Polarity |
|------------------------------|----------------------|-----|-------------------|---------|----------------|-------------------------|-------|-------------|----------|
| Low Channel, 3750MHz | | | | | | | | | |
| 7.400500 | 33.22 | Pk | 35.5 | -95.2 | -26.15 | -52.63 | -13 | -39.63 | H |
| 7.400500 | 33.20 | Pk | 35.5 | -95.2 | -26.15 | -52.65 | -13 | -39.65 | V |
| 11.100500 | 31.08 | Pk | 37.8 | -95.2 | -22.85 | -49.17 | -13 | -36.17 | H |
| 11.100500 | 31.34 | Pk | 37.8 | -95.2 | -22.85 | -48.91 | -13 | -35.91 | V |
| 14.800000 | 28.02 | Pk | 39.4 | -95.2 | -19.80 | -47.58 | -13 | -34.58 | H |
| 14.800000 | 29.59 | Pk | 39.4 | -95.2 | -19.80 | -46.01 | -13 | -33.01 | V |
| Mid Channel, 3840MHz | | | | | | | | | |
| 7.581000 | 34.27 | Pk | 35.7 | -95.2 | -26 | -51.23 | -13 | -38.23 | H |
| 7.581000 | 33.11 | Pk | 35.7 | -95.2 | -26 | -52.39 | -13 | -39.39 | V |
| 11.369750 | 30.22 | Pk | 38 | -95.2 | -22.6 | -49.58 | -13 | -36.58 | H |
| 11.370000 | 29.21 | Pk | 38 | -95.2 | -22.6 | -50.59 | -13 | -37.59 | V |
| 15.160500 | 27.60 | Pk | 39.7 | -95.2 | -19.0 | -46.90 | -13 | -33.90 | H |
| 15.160500 | 28.88 | Pk | 39.7 | -95.2 | -19.0 | -45.62 | -13 | -32.62 | V |
| High Channel, 3930MHz | | | | | | | | | |
| 7.760500 | 33.66 | Pk | 35.8 | -95.2 | -26.55 | -52.29 | -13 | -39.29 | H |
| 7.760500 | 33.05 | Pk | 35.8 | -95.2 | -26.55 | -52.90 | -13 | -39.90 | V |
| 11.640000 | 29.66 | Pk | 38.4 | -95.2 | -22.00 | -49.14 | -13 | -36.14 | V |
| 11.640500 | 30.64 | Pk | 38.4 | -95.2 | -22.05 | -48.21 | -13 | -35.21 | H |
| 15.520500 | 29.08 | Pk | 40.4 | -95.2 | -18.45 | -44.17 | -13 | -31.17 | V |
| 15.521000 | 29.69 | Pk | 40.4 | -95.2 | -18.30 | -43.41 | -13 | -30.41 | H |

10.7. FIELD STRENGTH OF SPURIOUS RADIATION, ANT9

TEST PROCEDURE

KDB 971168 D01 /D02

All tests below 1GHz were done with a Resolution Bandwidth of 100kHz, and a Video Bandwidth of 300kHz.

RESULTS

10.7.1. 5G NR n77 (FCC Part 27 3450-3550MHz)

LIMITS

FCC: §27.53

Emission limits

(n) 3.45 GHz Service. The following emission limits apply to stations transmitting in the 3450-3550 MHz band:

(2) For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

BPSK 5G NR n77 (100.0MHZ BANDWIDTH)

| | |
|----------------|-----------------------|
| Project #: | 14982484 |
| Date: | 2024-04-22 |
| Test Engineer: | 12491 |
| Configuration: | EUT only |
| Mode | 5G NR n77 BPSK 100MHz |
| Chamber #: | 01-RDE-B |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 200786 ACF (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | LIMIT | Margin (dB) | Polarity |
|-----------------------------|----------------------|-----|-------------------|---------|----------------|-------------------------|-------|-------------|----------|
| Mid Channel, 3500MHz | | | | | | | | | |
| 6.899500 | 33.70 | Pk | 35.6 | -95.2 | -26.65 | -52.55 | -13 | -39.55 | V |
| 6.900000 | 33.26 | Pk | 35.6 | -95.2 | -26.60 | -52.94 | -13 | -39.94 | H |
| 10.350500 | 31.17 | Pk | 37.5 | -95.2 | -24.70 | -51.23 | -13 | -38.23 | H |
| 10.350500 | 30.91 | Pk | 37.5 | -95.2 | -24.70 | -51.49 | -13 | -38.49 | V |
| 13.800500 | 28.90 | Pk | 38.8 | -95.2 | -19.65 | -47.15 | -13 | -34.15 | H |
| 13.800500 | 29.18 | Pk | 38.8 | -95.2 | -19.65 | -46.87 | -13 | -33.87 | V |

10.7.2. 5G NR n77 (FCC Part 27 3700-3980MHz)

LIMITS

FCC: §27.53

(l) 3.7 GHz Service. The following emission limits apply to stations transmitting in the 3700-3980 MHz band:

(2) For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

BPSK 5G NR n77 (100.0MHZ BANDWIDTH)

| | |
|----------------|-----------------------|
| Project #: | 14982484 |
| Date: | 2024-06-25 |
| Test Engineer: | 106018 |
| Configuration: | EUT only |
| Mode | 5G NR n77 BPSK 100MHz |
| Chamber #: | 01-RDE-A |

| Frequency (GHz) | Meter Reading (dBuV) | Det | 81886 ACF 3m (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | LIMIT | Margin (dB) | Polarity |
|------------------------------|----------------------|-----|---------------------|---------|----------------|-------------------------|-------|-------------|----------|
| Low Channel, 3750MHz | | | | | | | | | |
| 7.516500 | 29.71 | Pk | 35.7 | -95.2 | -17.5 | -47.24 | -13 | -34.24 | V |
| 7.520500 | 29.85 | Pk | 35.7 | -95.2 | -17.5 | -47.15 | -13 | -34.15 | H |
| 11.239500 | 28.77 | Pk | 37.8 | -95.2 | -14.2 | -42.83 | -13 | -29.83 | H |
| 11.244000 | 29.13 | Pk | 37.8 | -95.2 | -14.1 | -42.37 | -13 | -29.37 | V |
| 15.022500 | 28.71 | Pk | 39.9 | -95.2 | -13.0 | -39.59 | -13 | -26.59 | H |
| 15.035500 | 28.18 | Pk | 39.9 | -95.2 | -12.8 | -39.92 | -13 | -26.92 | V |
| Mid Channel, 3840MHz | | | | | | | | | |
| 7.708500 | 29.22 | Pk | 35.8 | -95.2 | -16.5 | -46.68 | -13 | -33.68 | V |
| 7.715000 | 30.31 | Pk | 35.8 | -95.2 | -16.4 | -45.49 | -13 | -32.49 | H |
| 11.528000 | 29.08 | Pk | 37.9 | -95.2 | -14.5 | -42.72 | -13 | -29.72 | H |
| 11.536000 | 28.36 | Pk | 37.9 | -95.2 | -14.3 | -43.24 | -13 | -30.24 | V |
| 15.345000 | 28.14 | Pk | 40.2 | -95.2 | -13.2 | -40.06 | -13 | -27.06 | H |
| 15.350500 | 28.24 | Pk | 40.2 | -95.2 | -13.2 | -39.96 | -13 | -26.96 | V |
| High Channel, 3930MHz | | | | | | | | | |
| 7.832500 | 29.89 | Pk | 35.8 | -95.2 | -17.75 | -47.26 | -13 | -34.26 | V |
| 7.834000 | 31.00 | Pk | 35.8 | -95.2 | -17.7 | -46.10 | -13 | -33.10 | H |
| 11.779500 | 28.36 | Pk | 38.3 | -95.2 | -13.9 | -42.44 | -13 | -29.44 | H |
| 11.782000 | 29.05 | Pk | 38.3 | -95.2 | -13.9 | -41.75 | -13 | -28.75 | V |
| 15.691000 | 28.44 | Pk | 40.5 | -95.2 | -11.8 | -38.06 | -13 | -25.06 | V |
| 15.700500 | 27.59 | Pk | 40.4 | -95.2 | -12.0 | -39.16 | -13 | -26.16 | H |

11. SETUP PHOTOS

Please refer to 14982489-EP1V1 Setup Photo Report for setup photos.

END OF REPORT