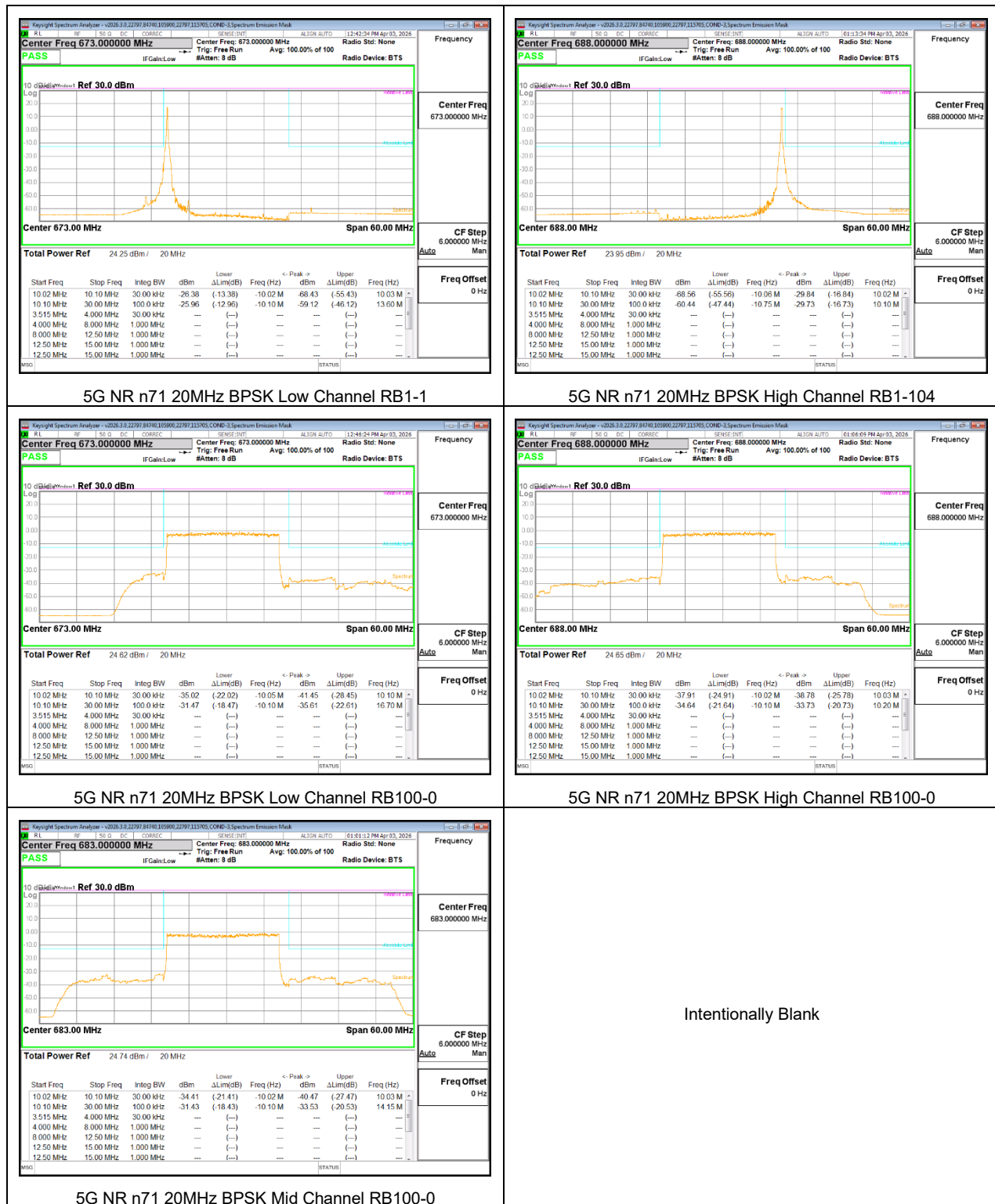
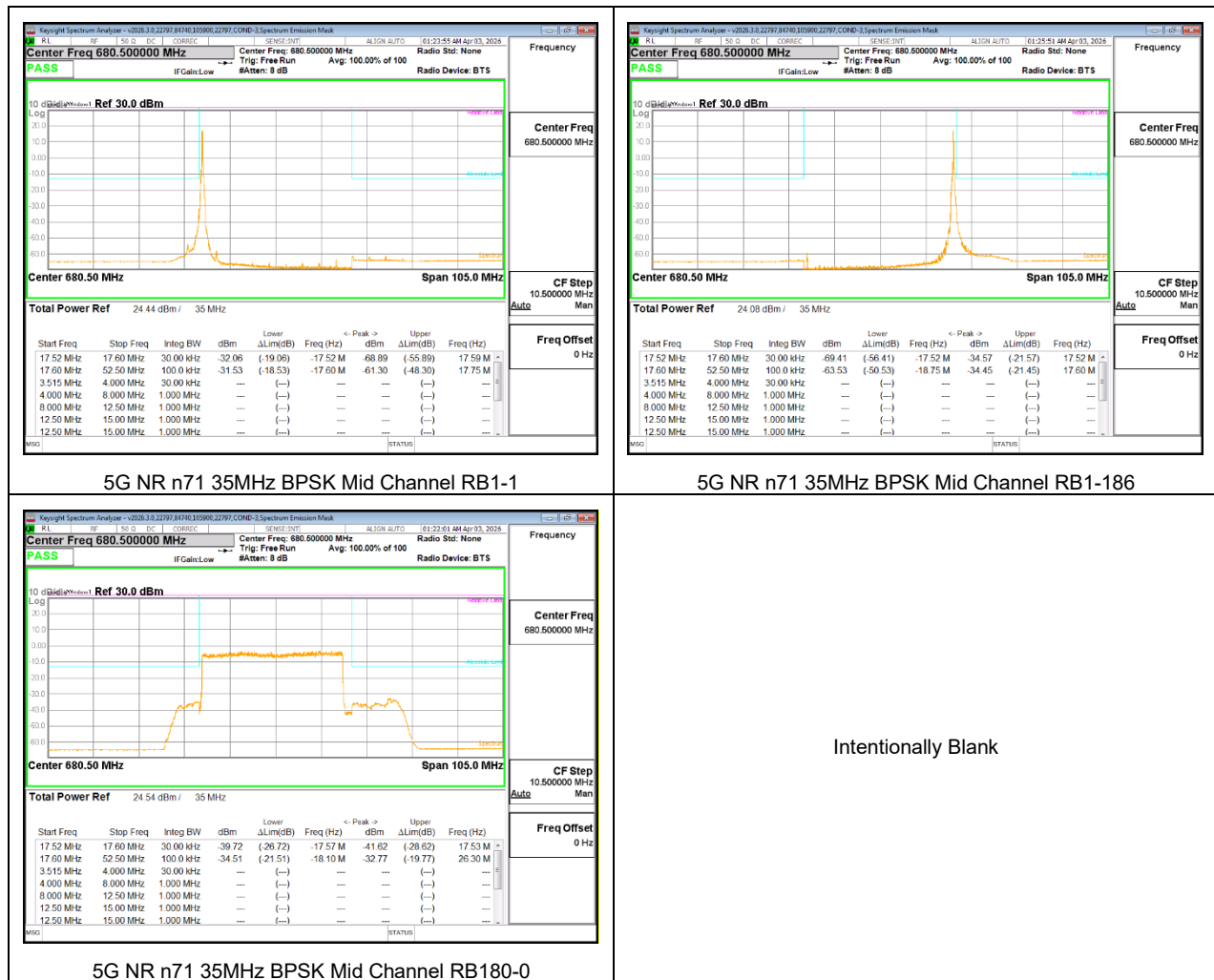












8.3. OUT OF BAND EMISSIONS

LIMITS (BAND 12, 71)

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.

ISED: RSS130§4.7

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

LIMITS (BAND 13)

FCC: §27.53 (c), (f)

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

Note: Radiated data in section 9.2.3 confirms a compliance for the emissions in GPS 1559-1610 MHz band were wideband emissions therefore the -40 dBm/MHz limit was used.

ISED: RSS130§4.7

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

4.7.1 General unwanted emissions limits

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

4.7.2 Additional unwanted emissions limits

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

(a) the power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P (dBW), by at least:

- i. $76 + 10 \log_{10} p$ (watts), dB, for base and fixed equipment and
- ii. $65 + 10 \log_{10} p$ (watts), dB, for mobile and portable equipment

(b) the e.i.r.p. in the band 1559-1610 MHz shall not exceed -70 dBW/MHz for wideband signal and -80 dBW for discrete emission with bandwidth less than 700 Hz.

Note: Radiated data in section 9.2.3 confirms a compliance for the emissions in GPS 1559-1610 MHz band were wideband emissions therefore the -40 dBm/MHz limit was used.

TEST PROCEDURE

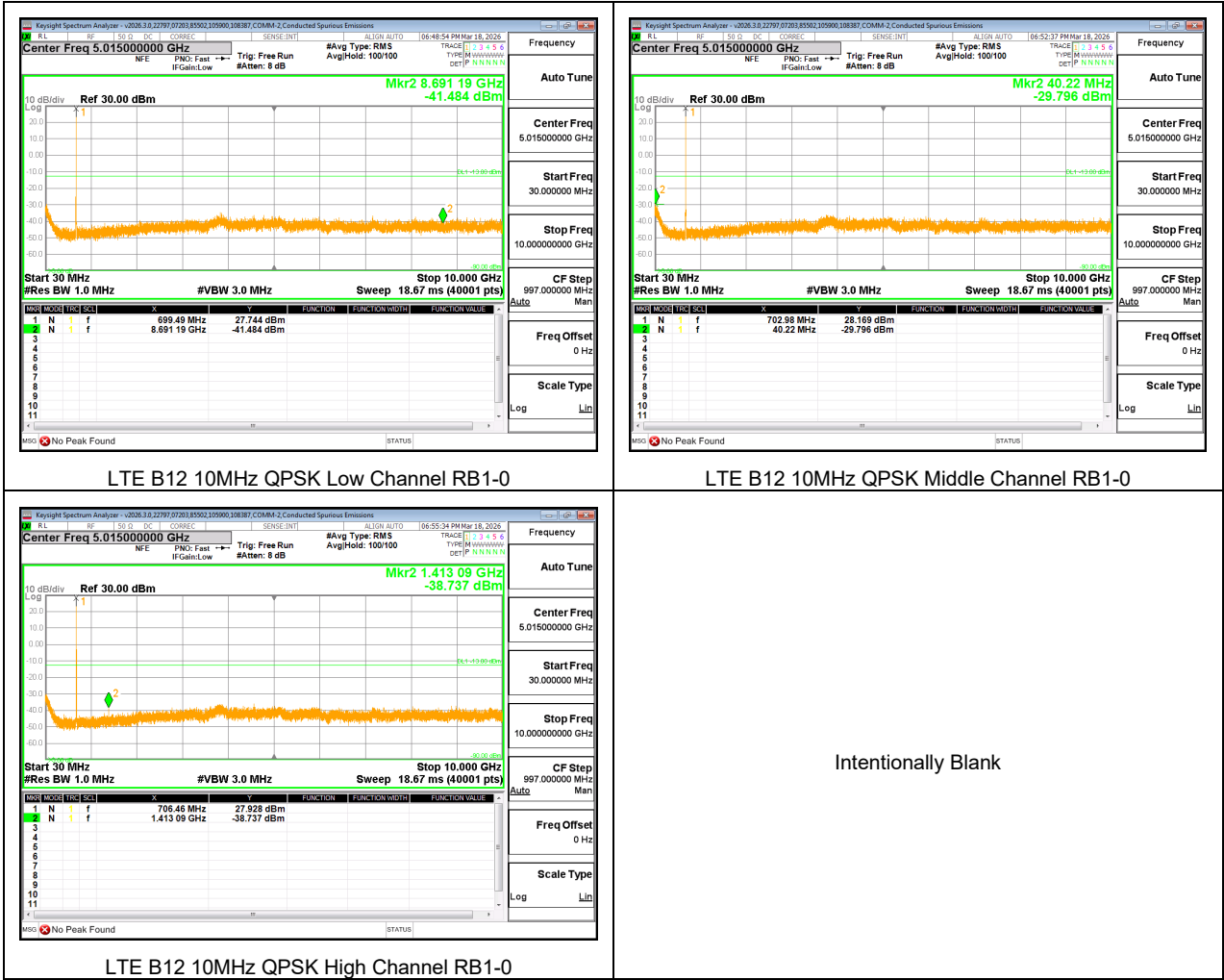
The RF output of the transmitter was connected to a spectrum analyzer through a calibrated coaxial cable. Sufficient scans were taken to show the out-of-band Emissions, if any, up to 10th harmonic. Multiple sweeps were recorded in maximum hold mode using a peak detector to ensure that the worst-case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

For each out of band emissions measurement:

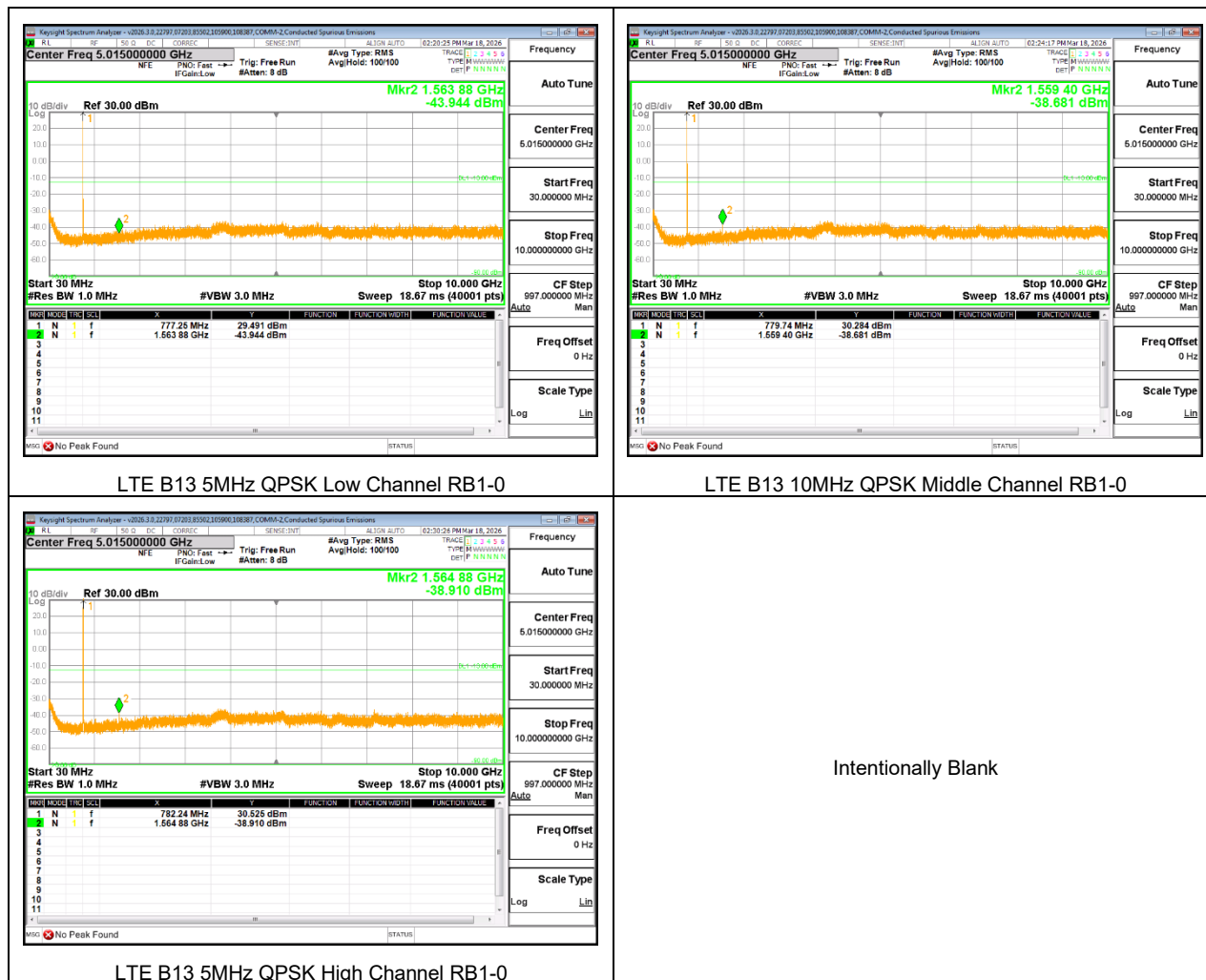
- Set display line at -13 dBm, -25 dBm and -40 dBm according to the band Limit
- Set RBW & VBW to 100 kHz for the measurement below 1 GHz, and 1 MHz for the measurement above 1 GHz.
(NOTE: Worst case set RBW/VBW to 1MHz/3MHz)

RESULTS

8.3.1. LTE BAND 12

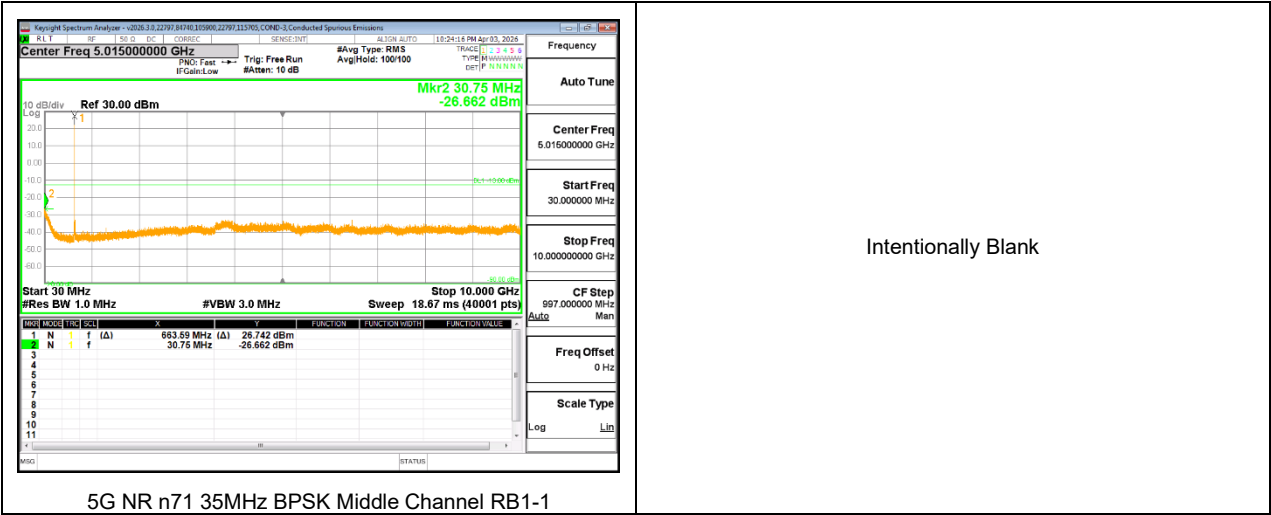


8.3.2. LTE BAND 13



Note: Radiated data in section 9.1.6 confirms a compliance with narrowband limits for GPS1559-1610 MHz band.

8.3.3. 5G NR n71



8.4. FREQUENCY STABILITY

LIMITS

FCC: §27.54

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

ISED: RSS130§4.5

For equipment that is capable of transmitting numerous channels simultaneously for different applications (e.g. LTE and narrowband – Internet of Things (IoT)), the occupied bandwidth shall be the bandwidth representing the sum of the occupied bandwidths of these channels.

The frequency stability shall be sufficient to ensure that the occupied bandwidth remains within each frequency block range when tested at the temperature and supply voltage variations specified in RSS-Gen.

TEST PROCEDURE

Use base station simulator with Frequency Error measurement capability.

- Temp. = -30°C to +50°C
- Voltage = (85% - 100%)

Low voltage, 3.7VDC, Normal, 3.89VDC and High voltage, 4.45VDC.
End Voltage, 3.7VDC..

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.

8.4.1. LTE BAND 12 (QPSK 10MHz BANDWIDTH)

Test Engineer ID:	105900	Test Date:	2026-03-05 and 2026-04-08
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Band	12	Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		699	716			
Temperature	Voltage	Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)		Frequency Stability (ppm)	Within Authorized Frequency Block (Hz)
Normal (20°C)	Normal	693.54	722.4675			
Extreme (50°C)		693.5400	722.4675	2.25	0.003	Yes
Extreme (40°C)		693.5400	722.4675	2.42	0.003	Yes
Extreme (30°C)		693.5400	722.4675	-2.42	-0.003	Yes
Extreme (10°C)		693.5400	722.4675	3.09	0.004	Yes
Extreme (0°C)		693.5400	722.4675	3.27	0.005	Yes
Extreme (-10°C)		693.5400	722.4675	3.82	0.005	Yes
Extreme (-20°C)		693.5400	722.4675	2.86	0.004	Yes
Extreme (-30°C)		693.5400	722.4675	4	0.006	Yes
20°C	End Point Voltage	693.5400	722.4675	-2.57	-0.004	Yes

8.4.2. LTE BAND 13 (QPSK 10MHz BANDWIDTH)

Test Engineer ID:	105900	Test Date:	2026-03-05 and 2026-04-08
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Band	13	Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		777	787			
Temperature	Voltage	Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)		Frequency Stability (ppm)	Within Authorized Frequency Block (Hz)
Normal (20°C)	Normal	775.305	796.185			
Extreme (50°C)		775.3050	796.1850	1.73	0.002	Yes
Extreme (40°C)		775.3050	796.1850	3.69	0.005	Yes
Extreme (30°C)		775.3050	796.1850	3.56	0.005	Yes
Extreme (10°C)		775.3050	796.1850	2.71	0.003	Yes
Extreme (0°C)		775.3050	796.1850	4.3	0.005	Yes
Extreme (-10°C)		775.3050	796.1850	2.59	0.003	Yes
Extreme (-20°C)		775.3050	796.1850	5.62	0.007	Yes
Extreme (-30°C)		775.3050	796.1850	4.99	0.006	Yes
20°C	End Point Voltage	775.3050	796.1850	2.41	0.003	Yes

8.4.3. 5G NR n71 (BPSK 35MHz BANDWIDTH)

Test Engineer ID:	105900	Test Date:	2026-03-05 and 2026-04-09
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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	656.8813	711.1375			
Extreme (50°C)		656.8813	711.1375	0.0096	0.000	Yes
Extreme (40°C)		656.8813	711.1375	0.0081	0.000	Yes
Extreme (30°C)		656.8813	711.1375	0.0109	0.000	Yes
Extreme (10°C)		656.8813	711.1375	0.0118	0.000	Yes
Extreme (0°C)		656.8813	711.1375	0.0078	0.000	Yes
Extreme (-10°C)		656.8813	711.1375	0.0093	0.000	Yes
Extreme (-20°C)		656.8813	711.1375	0.0137	0.000	Yes
Extreme (-30°C)		656.8813	711.1375	0.0135	0.000	Yes
20°C	End Point Voltage	656.8813	711.1375	0.0137	0.000	Yes

8.5. PEAK-TO-AVERAGE POWER RATIO

LIMIT

ISED: RSS130§4.6.1

The transmitter output power shall be measured in terms of average power. 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.

RESULT

Config 0 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.

TEST PROCEDURE

The EUT was connected to a Wideband Power Sensor to measure Peak and Average Output power.

8.5.1. LTE BAND 12

Test Engineer ID:	22797	Test Date:	2026-03-18
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Band	Bandwidth (MHz)	Frequency (MHz)	RB Allocation	RB OffSet	Modulation	Conducted Power (dBm)		Peak-to-Average Power Ratio (dB)
						Peak	Average	
LTE Band 12	1.4MHz	707.5	6	0	QPSK	28.39	23.80	4.59
					16QAM	28.54	22.88	5.66
	3MHz		15	0	QPSK	28.68	23.87	4.81
					16QAM	28.88	22.88	6.00
	5MHz		25	0	QPSK	28.83	23.87	4.96
					16QAM	28.99	22.88	6.11
	10MHz		50	0	QPSK	28.8	23.88	4.92
					16QAM	29.00	22.88	6.12

Duty Cycle Correction Factor (dB) = 0.00

Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor

8.5.2. LTE BAND 13

Test Engineer ID:	22797	Test Date:	2026-03-18
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Band	Bandwidth (MHz)	Frequency (MHz)	RB Allocation	RB OffSet	Modulation	Conducted Power (dBm)		Peak-to-Average Power Ratio (dB)
						Peak	Average	
LTE Band 13	5MHz	782.0	25	0	QPSK	30.81	25.47	5.34
					16QAM	31.18	24.48	6.70
	10MHz		50	0	QPSK	30.38	25.42	4.96
					16QAM	30.41	24.42	5.99

Duty Cycle Correction Factor (dB) = 0.00

Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor

8.5.3. 5G NR n71

Test Engineer ID:	105900	Test Date:	2026-03-26 and 2026-03-27
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Band	Bandwidth (MHz)	Frequency (MHz)	RB Allocation	RB OffSet	Modulation	Conducted Power (dBm)		Peak-to-Average Power Ratio (dB)
						Peak	Average	
5G NR Band n71	5MHz	680.5	25	0	BPSK	27.68	23.93	3.75
					16QAM	27.44	22.39	5.05
	10MHz	683.0	50	0	BPSK	27.66	23.95	3.71
					16QAM	27.5	22.3	5.20
	15MHz	680.5	75	0	BPSK	27.86	23.93	3.93
					16QAM	27.58	22.37	5.21
	20MHz	683.0	100	0	BPSK	27.84	23.76	4.08
					16QAM	27.77	22.27	5.50
	25MHz	680.5	128	0	BPSK	28.04	23.59	4.45
					16QAM	27.96	22.07	5.89
	30MHz	683.0	160	0	BPSK	27.86	23.6	4.26
					16QAM	27.55	21.97	5.58
	35MHz	680.5	180	0	BPSK	28.41	23.52	4.89
					16QAM	27.68	21.94	5.74
Duty Cycle Correction Factor (dB) =			0.00					
Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor								

9. RADIATED TEST RESULTS

Radiated measurement using the Field Strength Method

Using the test configuration shown in Figure 6 below, the radiated emissions is measured 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.

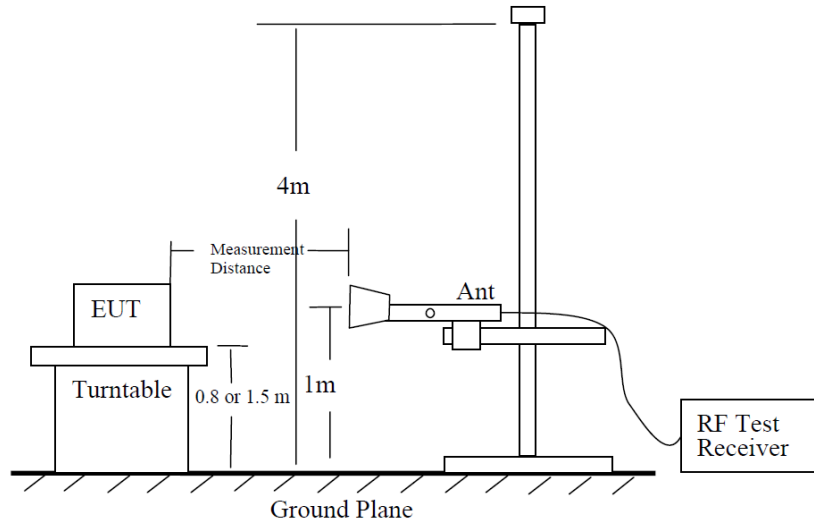


Figure 6—Test site-up for radiated ERP and/or EIRP measurements

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.

9.1. EFFECTIVE RADIATED POWER ERP/EIRP

RULE PART(S)

FCC: §2.1046, §27.50 (c) (b) (10)

RSS: 130§4.6.3, 130§4.6.2

LIMITS

27.50(c) - (10) Portable stations (hand-held devices) are limited to 3 watts ERP.

27.50(b) - (10) Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP.

RSS: 130§4.6.2 The e.r.p. shall not exceed 3 watts for mobile equipment, fixed subscriber equipment and portable equipment.

RSS: 130§4.6.3 The e.r.p. shall not exceed 30 watts for mobile equipment and outdoor fixed subscriber equipment. The e.r.p. shall not exceed 3 watts for portable equipment and indoor fixed subscriber equipment.

In addition, when the transmitter power is measured in terms of average value, the peak-to-average ratio of the power shall not exceed 13dB.

TEST PROCEDURE

ANSI C63.26:2015
KDB 971168 D01 Section 5.2

For average power measurements:

- a) Set span to at least 1.5 times the OBW;
- b) Set RBW = 1-5% of the OBW, not to exceed 1 MHz;
- c) Set VBW $\geq 3 \times$ RBW;
- d) Set number of points in sweep $\geq 2 \times$ span / RBW;
- e) Sweep time = auto-couple;
- f) Detector = RMS (power averaging);
- g) Use free run trigger If burst duty cycle ≥ 98 ;
- h) Add a duty cycle correction factor ($10\log(DC)$) if burst duty cycle < 98 ;
- i) Trace average at least 100 traces in power averaging (i.e., RMS) mode.
- j) Compute the power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function.

RESULTS

9.1.1. LTE BAND 12

Freq (MHz)	Band/Bandwidth	RB Size-Offset	Modulation (Of EUT)	EIRP (W)	EIRP _{DUT} (dBm)	Limit (dBm)	Margin (dB)
699.7	LTE12 / 1.4 MHz (ANT A+C)	RB1-0	QPSK	0.045	16.52	34.77	-18.25
707.5		RB1-3	QPSK	0.045	16.51	34.77	-18.26
715.3		RB1-5	QPSK	0.047	16.70	34.77	-18.07
699.7		RB1-0	16QAM	0.037	15.64	34.77	-19.13
707.5		RB1-3	16QAM	0.036	15.58	34.77	-19.19
715.3		RB1-5	16QAM	0.037	15.64	34.77	-19.13
700.5	LTE12 / 3 MHz (ANT A+C)	RB1-0	QPSK	0.046	16.61	34.77	-18.16
707.5		RB1-8	QPSK	0.045	16.57	34.77	-18.20
714.5		RB1-14	QPSK	0.044	16.46	34.77	-18.31
700.5		RB1-0	16QAM	0.032	15.10	34.77	-19.67
707.5		RB1-8	16QAM	0.038	15.77	34.77	-19.00
714.5		RB1-14	16QAM	0.037	15.66	34.77	-19.11
701.5	LTE12 / 5 MHz (ANT A+C)	RB1-0	QPSK	0.046	16.59	34.77	-18.18
707.5		RB1-12	QPSK	0.046	16.59	34.77	-18.18
713.5		RB1-24	QPSK	0.046	16.65	34.77	-18.12
701.5		RB1-0	16QAM	0.037	15.71	34.77	-19.06
707.5		RB1-12	16QAM	0.038	15.75	34.77	-19.02
713.5		RB1-24	16QAM	0.038	15.76	34.77	-19.01
704.0	LTE12 / 10 MHz (ANT A+C)	RB1-0	QPSK	0.039	15.86	34.77	-18.91
707.5		RB1-25	QPSK	0.044	16.44	34.77	-18.33
711.0		RB1-49	QPSK	0.044	16.48	34.77	-18.29
704.0		RB1-0	16QAM	0.032	15.06	34.77	-19.71
707.5		RB1-25	16QAM	0.037	15.65	34.77	-19.12
711.0		RB1-49	16QAM	0.037	15.68	34.77	-19.09

CONFIG 0

Freq (MHz)	Band/Bandwidth	RB Size-Offset	Modulation (Of EUT)	EIRP (W)	EIRP _{DUT} (dBm)	Limit (dBm)	Margin (dB)
699.7	LTE12 / 1.4 MHz (ANT E)	RB1-0	QPSK	0.044	16.45	34.77	-18.32
707.5		RB1-3	QPSK	0.042	16.22	34.77	-18.55
715.3		RB1-5	QPSK	0.043	16.34	34.77	-18.43
699.7		RB1-0	16QAM	0.037	15.66	34.77	-19.11
707.5		RB1-3	16QAM	0.036	15.56	34.77	-19.21
715.3		RB1-5	16QAM	0.036	15.59	34.77	-19.18
700.5	LTE12 / 3 MHz (ANT E)	RB1-0	QPSK	0.044	16.47	34.77	-18.30
707.5		RB1-8	QPSK	0.044	16.40	34.77	-18.37
714.5		RB1-14	QPSK	0.043	16.36	34.77	-18.41
700.5		RB1-0	16QAM	0.037	15.66	34.77	-19.11
707.5		RB1-8	16QAM	0.037	15.68	34.77	-19.09
714.5		RB1-14	16QAM	0.037	15.68	34.77	-19.09
701.5	LTE12 / 5 MHz (ANT E)	RB1-0	QPSK	0.045	16.51	34.77	-18.26
707.5		RB1-12	QPSK	0.045	16.54	34.77	-18.23
713.5		RB1-24	QPSK	0.045	16.52	34.77	-18.25
701.5		RB1-0	16QAM	0.037	15.68	34.77	-19.09
707.5		RB1-12	16QAM	0.037	15.69	34.77	-19.08
713.5		RB1-24	16QAM	0.037	15.66	34.77	-19.11
704.0	LTE12 / 10 MHz (ANT E)	RB1-0	QPSK	0.035	15.45	34.77	-19.32
707.5		RB1-25	QPSK	0.044	16.41	34.77	-18.36
711.0		RB1-49	QPSK	0.041	16.10	34.77	-18.67
704.0		RB1-0	16QAM	0.029	14.64	34.77	-20.13
707.5		RB1-25	16QAM	0.037	15.63	34.77	-19.14
711.0		RB1-49	16QAM	0.033	15.25	34.77	-19.52

CONFIG 1

9.1.2. LTE BAND 13

Freq (MHz)	Band/Bandwidth	RB Size-Offset	Modulation (Of EUT)	EIRP (W)	EIRP _{DUT} (dBm)	Limit (dBm)	Margin (dB)
779.5	LTE13 / 5 MHz (ANT A+C)	RB1-0	QPSK	0.086	19.32	34.77	-15.45
782.0		RB1-12	QPSK	0.087	19.38	34.77	-15.39
784.5		RB1-24	QPSK	0.086	19.33	34.77	-15.44
779.5		RB1-0	16QAM	0.073	18.63	34.77	-16.14
782.0		RB1-12	16QAM	0.074	18.71	34.77	-16.06
784.5		RB1-24	16QAM	0.074	18.69	34.77	-16.08
782.0	LTE13 / 10 MHz (ANT A+C)	RB1-0	QPSK	0.085	19.28	34.77	-15.49
782.0		RB1-25	QPSK	0.074	18.72	34.77	-16.05
782.0		RB1-49	QPSK	0.068	18.32	34.77	-16.45
782.0		RB1-0	16QAM	0.072	18.58	34.77	-16.19
782.0		RB1-25	16QAM	0.064	18.08	34.77	-16.69
782.0		RB1-49	16QAM	0.057	17.57	34.77	-17.20

CONFIG 0

Freq (MHz)	Band/Bandwidth	RB Size-Offset	Modulation (Of EUT)	EIRP (W)	EIRP _{DUT} (dBm)	Limit (dBm)	Margin (dB)
779.5	LTE13 / 5 MHz (ANT E)	RB1-0	QPSK	0.052	17.20	34.77	-17.57
782.0		RB1-12	QPSK	0.053	17.21	34.77	-17.56
784.5		RB1-24	QPSK	0.052	17.16	34.77	-17.61
779.5		RB1-0	16QAM	0.032	15.07	34.77	-19.70
782.0		RB1-12	16QAM	0.044	16.43	34.77	-18.34
784.5		RB1-24	16QAM	0.038	15.81	34.77	-18.96
782.0	LTE13 / 10 MHz (ANT E)	RB1-0	QPSK	0.049	16.92	34.77	-17.85
782.0		RB1-25	QPSK	0.049	16.93	34.77	-17.84
782.0		RB1-49	QPSK	0.051	17.08	34.77	-17.69
782.0		RB1-0	16QAM	0.042	16.23	34.77	-18.54
782.0		RB1-25	16QAM	0.042	16.20	34.77	-18.57
782.0		RB1-49	16QAM	0.043	16.33	34.77	-18.44

CONFIG 1

9.1.3. 5G NR n71

Freq (MHz)	Band/Bandwidth	RB Size-Offset	Modulation (Of EUT)	EIRP (W)	EIRP _{DUT} (dBm)	Limit (dBm)	Margin (dB)
665.5	n71 / 5MHz (ANT A+C)	RB1-1	BPSK	0.023	13.57	34.77	-21.20
680.5		RB1-12	BPSK	0.023	13.55	34.77	-21.22
695.5		RB1-23	BPSK	0.022	13.49	34.77	-21.28
665.5		RB1-1	16QAM	0.018	12.53	34.77	-22.24
680.5		RB1-12	16QAM	0.017	12.38	34.77	-22.39
695.5		RB1-23	16QAM	0.023	13.64	34.77	-21.13
668.0	n71 / 10MHz (ANT A+C)	RB1-1	BPSK	0.022	13.49	34.77	-21.28
680.5		RB1-26	BPSK	0.022	13.52	34.77	-21.25
693.0		RB1-50	BPSK	0.021	13.23	34.77	-21.54
668		RB1-1	16QAM	0.017	12.43	34.77	-22.34
680.5		RB1-26	16QAM	0.019	12.74	34.77	-22.03
693		RB1-50	16QAM	0.017	12.37	34.77	-22.40
670.5	n71 / 15MHz (ANT A+C)	RB1-1	BPSK	0.022	13.51	34.77	-21.26
680.5		RB1-39	BPSK	0.022	13.51	34.77	-21.26
690.5		RB1-77	BPSK	0.022	13.40	34.77	-21.37
670.5		RB1-1	16QAM	0.018	12.47	34.77	-22.30
680.5		RB1-39	16QAM	0.017	12.40	34.77	-22.37
690.5		RB1-77	16QAM	0.018	12.54	34.77	-22.23
673.0	n71 / 20MHz (ANT A+C)	RB1-1	BPSK	0.022	13.41	34.77	-21.36
680.5		RB1-53	BPSK	0.023	13.61	34.77	-21.16
688.0		RB1-104	BPSK	0.022	13.39	34.77	-21.38
673		RB1-1	16QAM	0.018	12.48	34.77	-22.29
680.5		RB1-53	16QAM	0.017	12.37	34.77	-22.40
688		RB1-104	16QAM	0.018	12.44	34.77	-22.33
675.5	n71 / 25MHz (ANT A+C)	RB1-1	BPSK	0.022	13.50	34.77	-21.27
680.5		RB1-66	BPSK	0.024	13.89	34.77	-20.88
685.5		RB1-131	BPSK	0.021	13.30	34.77	-21.47
675.5		RB1-1	16QAM	0.019	12.74	34.77	-22.03
680.5		RB1-66	16QAM	0.019	12.77	34.77	-22.00
685.5		RB1-131	16QAM	0.017	12.42	34.77	-22.35
678.0	n71 / 30MHz (ANT A+C)	RB1-1	BPSK	0.023	13.70	34.77	-21.07
680.5		RB1-80	BPSK	0.023	13.60	34.77	-21.17
683.0		RB1-158	BPSK	0.021	13.21	34.77	-21.56
678		RB1-1	16QAM	0.018	12.48	34.77	-22.29
680.5		RB1-80	16QAM	0.018	12.62	34.77	-22.15
683		RB1-158	16QAM	0.018	12.47	34.77	-22.30
680.5	n71 / 35MHz (ANT A+C)	RB1-1	BPSK	0.022	13.39	34.77	-21.38
680.5		RB1-94	BPSK	0.019	12.90	34.77	-21.87
680.5		RB1-186	BPSK	0.017	12.30	34.77	-22.47
680.5		RB1-1	16QAM	0.017	12.41	34.77	-22.36
680.5		RB1-94	16QAM	0.015	11.80	34.77	-22.97
680.5		RB1-186	16QAM	0.014	11.40	34.77	-23.37

CONFIG 0

Freq (MHz)	Band/Bandwidth	RB Size-Offset	Modulation (Of EUT)	EIRP (W)	EIRP _{DUT} (dBm)	Limit (dBm)	Margin (dB)
665.5	n71 / 5MHz (ANT E)	RB1-1	BPSK	0.021	13.32	34.77	-21.45
680.5		RB1-12	BPSK	0.022	13.34	34.77	-21.43
695.5		RB1-23	BPSK	0.021	13.17	34.77	-21.60
665.5		RB1-1	16QAM	0.018	12.54	34.77	-22.23
680.5		RB1-12	16QAM	0.018	12.63	34.77	-22.14
695.5		RB1-23	16QAM	0.018	12.66	34.77	-22.11
668.0	n71 / 10MHz (ANT E)	RB1-1	BPSK	0.021	13.28	34.77	-21.49
680.5		RB1-26	BPSK	0.022	13.36	34.77	-21.41
693.0		RB1-50	BPSK	0.020	12.92	34.77	-21.85
668		RB1-1	16QAM	0.011	10.22	34.77	-24.55
680.5		RB1-26	16QAM	0.018	12.60	34.77	-22.17
693		RB1-50	16QAM	0.016	12.13	34.77	-22.64
670.5	n71 / 15MHz (ANT E)	RB1-1	BPSK	0.021	13.18	34.77	-21.59
680.5		RB1-39	BPSK	0.021	13.28	34.77	-21.49
690.5		RB1-77	BPSK	0.020	13.04	34.77	-21.73
670.5		RB1-1	16QAM	0.018	12.47	34.77	-22.30
680.5		RB1-39	16QAM	0.018	12.62	34.77	-22.15
690.5		RB1-77	16QAM	0.017	12.34	34.77	-22.43
673.0	n71 / 20MHz (ANT E)	RB1-1	BPSK	0.021	13.25	34.77	-21.52
680.5		RB1-53	BPSK	0.021	13.30	34.77	-21.47
688.0		RB1-104	BPSK	0.020	13.09	34.77	-21.68
673		RB1-1	16QAM	0.018	12.50	34.77	-22.27
680.5		RB1-53	16QAM	0.018	12.62	34.77	-22.15
688		RB1-104	16QAM	0.017	12.28	34.77	-22.49
675.5	n71 / 25MHz (ANT E)	RB1-1	BPSK	0.021	13.20	34.77	-21.57
680.5		RB1-66	BPSK	0.022	13.49	34.77	-21.28
685.5		RB1-131	BPSK	0.020	12.98	34.77	-21.79
675.5		RB1-1	16QAM	0.018	12.53	34.77	-22.24
680.5		RB1-66	16QAM	0.018	12.61	34.77	-22.16
685.5		RB1-131	16QAM	0.017	12.30	34.77	-22.47
678.0	n71 / 30MHz (ANT E)	RB1-1	BPSK	0.021	13.30	34.77	-21.47
680.5		RB1-80	BPSK	0.022	13.38	34.77	-21.39
683.0		RB1-158	BPSK	0.020	13.04	34.77	-21.73
678		RB1-1	16QAM	0.018	12.49	34.77	-22.28
680.5		RB1-80	16QAM	0.017	12.23	34.77	-22.54
683		RB1-158	16QAM	0.016	12.17	34.77	-22.60
680.5	n71 / 35MHz (ANT E)	RB1-1	BPSK	0.022	13.45	34.77	-21.32
680.5		RB1-94	BPSK	0.020	13.08	34.77	-21.69
680.5		RB1-186	BPSK	0.017	12.40	34.77	-22.37
680.5		RB1-1	16QAM	0.018	12.61	34.77	-22.16
680.5		RB1-94	16QAM	0.017	12.21	34.77	-22.56
680.5		RB1-186	16QAM	0.014	11.57	34.77	-23.20

CONFIG 1

Freq (MHz)	Band/Bandwidth	RB Size-Offset	Modulation (Of EUT)	EIRP (W)	EIRP _{DUT} (dBm)	Limit (dBm)	Margin (dB)
665.5	n71 / 5MHz (ANT A)	RB1-1	BPSK	0.026	14.10	34.77	-20.67
680.5		RB1-12	BPSK	0.025	14.00	34.77	-20.77
695.5		RB1-23	BPSK	0.024	13.88	34.77	-20.89
665.5		RB1-1	16QAM	0.019	12.84	34.77	-21.93
680.5		RB1-12	16QAM	0.020	13.08	34.77	-21.69
695.5		RB1-23	16QAM	0.019	12.76	34.77	-22.01
668.0	n71 / 10MHz (ANT A)	RB1-1	BPSK	0.025	13.95	34.77	-20.82
680.5		RB1-26	BPSK	0.025	14.00	34.77	-20.77
693.0		RB1-50	BPSK	0.023	13.57	34.77	-21.20
668		RB1-1	16QAM	0.019	12.76	34.77	-22.01
680.5		RB1-26	16QAM	0.020	12.96	34.77	-21.81
693		RB1-50	16QAM	0.019	12.68	34.77	-22.09
670.5	n71 / 15MHz (ANT A)	RB1-1	BPSK	0.024	13.86	34.77	-20.91
680.5		RB1-39	BPSK	0.025	13.99	34.77	-20.78
690.5		RB1-77	BPSK	0.024	13.76	34.77	-21.01
670.5		RB1-1	16QAM	0.019	12.74	34.77	-22.03
680.5		RB1-39	16QAM	0.017	12.26	34.77	-22.51
690.5		RB1-77	16QAM	0.019	12.74	34.77	-22.03
673.0	n71 / 20MHz (ANT A)	RB1-1	BPSK	0.025	13.99	34.77	-20.78
680.5		RB1-53	BPSK	0.023	13.60	34.77	-21.17
688.0		RB1-104	BPSK	0.023	13.63	34.77	-21.14
673		RB1-1	16QAM	0.020	12.92	34.77	-21.85
680.5		RB1-53	16QAM	0.018	12.51	34.77	-22.26
688		RB1-104	16QAM	0.019	12.75	34.77	-22.02
675.5	n71 / 25MHz (ANT A)	RB1-1	BPSK	0.025	14.05	34.77	-20.72
680.5		RB1-66	BPSK	0.022	13.52	34.77	-21.25
685.5		RB1-131	BPSK	0.024	13.82	34.77	-20.95
675.5		RB1-1	16QAM	0.019	12.86	34.77	-21.91
680.5		RB1-66	16QAM	0.018	12.61	34.77	-22.16
685.5		RB1-131	16QAM	0.020	12.96	34.77	-21.81
678.0	n71 / 30MHz (ANT A)	RB1-1	BPSK	0.025	13.97	34.77	-20.80
680.5		RB1-80	BPSK	0.025	14.06	34.77	-20.71
683.0		RB1-158	BPSK	0.023	13.71	34.77	-21.06
678		RB1-1	16QAM	0.019	12.89	34.77	-21.88
680.5		RB1-80	16QAM	0.016	12.08	34.77	-22.69
683		RB1-158	16QAM	0.019	12.68	34.77	-22.09
680.5	n71 / 35MHz (ANT A)	RB1-1	BPSK	0.024	13.86	34.77	-20.91
680.5		RB1-94	BPSK	0.023	13.68	34.77	-21.09
680.5		RB1-186	BPSK	0.019	12.75	34.77	-22.02
680.5		RB1-1	16QAM	0.019	12.72	34.77	-22.05
680.5		RB1-94	16QAM	0.018	12.54	34.77	-22.23
680.5		RB1-186	16QAM	0.015	11.68	34.77	-23.09

AFS (ANT A)

9.2. FIELD STRENGTH OF SPURIOUS RADIATION,

LIMITS (BAND 12, 71)

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.

ISED: RSS130§4.7

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

LIMITS (BAND 13)

FCC: §27.53 (c), (f)

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

Note: Radiated data in section 9.2.3 confirms a compliance for the emissions in GPS 1559-1610 MHz band were wideband emissions therefore the -40 dBm/MHz limit was used.

ISED: RSS130§4.7

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

4.7.1 General unwanted emissions limits

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

4.7.2 Additional unwanted emissions limits

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

- (c) the power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P (dBW), by at least:

- iii. $76 + 10 \log_{10} p$ (watts), dB, for base and fixed equipment and
- iv. $65 + 10 \log_{10} p$ (watts), dB, for mobile and portable equipment

- (d) the e.i.r.p. in the band 1559-1610 MHz shall not exceed -70 dBW/MHz for wideband signal and -80 dBW for discrete emission with bandwidth less than 700 Hz.

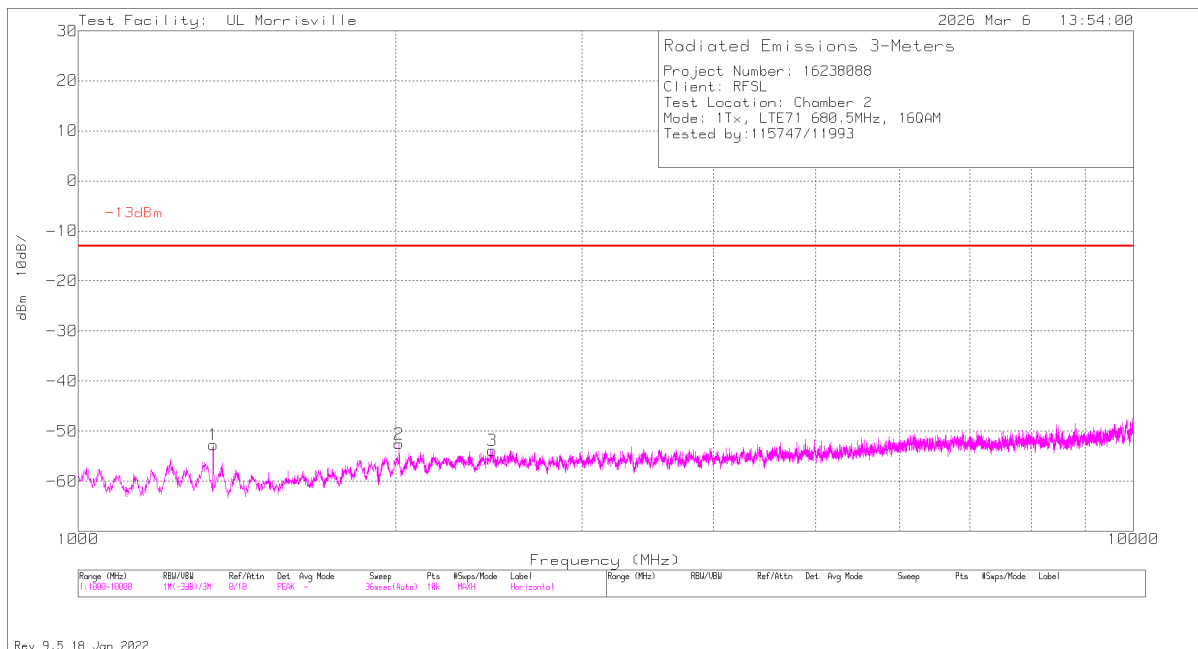
Note: Radiated data in section 9.2.3 confirms a compliance for the emissions in GPS 1559-1610 MHz band were wideband emissions therefore the -40 dBm/MHz limit was used.

TEST PROCEDURE

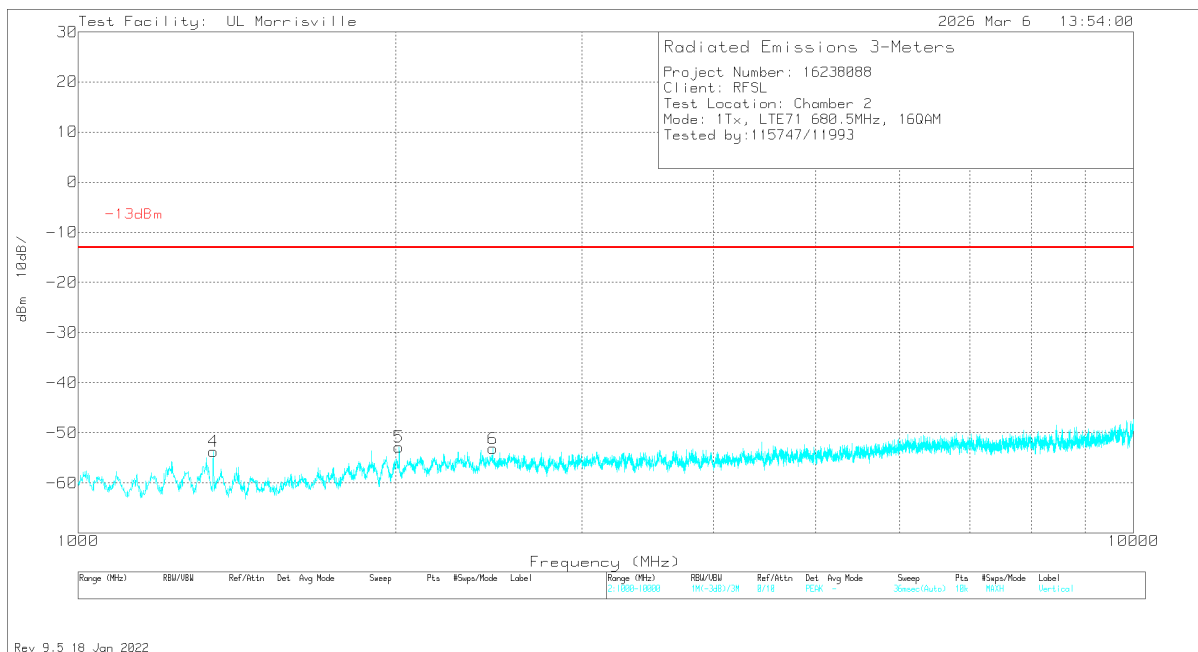
KDB 971168 D01 /D02

All tests above 1GHz were done with a Resolution Bandwidth of 1MHz, and a Video Bandwidth of 3MHz

Example Plot



Horizontal Polarity



Vertical Polarity

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	88761 (dB/m)	Gain/Loss (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1342.9	-44.77	Pk	29	-49.4	.6	11.8	-52.77	-13	-39.77	0-360	101	H
4	1342.9	-45.73	Pk	29	-49.4	.6	11.8	-53.73	-13	-40.73	0-360	101	V
2	2014.3	-46.25	Pk	31.5	-50	.4	11.8	-52.55	-13	-39.55	0-360	300	H
5	2014.3	-46.56	Pk	31.5	-50	.4	11.8	-52.86	-13	-39.86	0-360	300	V
3	2467.9	-50.43	Pk	32.6	-48.1	.3	11.8	-53.83	-13	-40.83	0-360	101	H
6	2470.6	-49.97	Pk	32.7	-48	.3	11.8	-53.17	-13	-40.17	0-360	101	V

Pk - Peak detector

RESULTS

9.2.1. LTE BAND 12

LTE BAND 12 (QPSK 10.0MHZ BANDWIDTH, Config 0)

Project #:	16238088
Date:	2026-03-05
Test Engineer:	115752 / 11993
Configuration:	EUT Only
Mode	LTE 12 QPSK 10MHz
Chamber #:	Chamber 4

Frequency (MHz)	Meter Reading (dBm)	Det	88761 ACF (dB/m)	Gain/Loss (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 704MHz										
1416.7	-37.8	Pk	28.6	-49.8	.5	11.8	-46.7	-13	-33.7	H
1416.7	-35.99	Pk	28.6	-49.8	.5	11.8	-44.89	-13	-31.89	V
2125	-42.81	Pk	31.9	-49.9	.5	11.8	-48.51	-13	-35.51	H
2125	-40.59	Pk	31.9	-49.9	.5	11.8	-46.29	-13	-33.29	V
7150.6	-54.46	Pk	35.5	-42.6	.3	11.8	-49.46	-13	-36.46	H
3167.2	-52.1	Pk	33.1	-45.9	.5	11.8	-52.6	-13	-39.6	V
Mid Channel, 707.5MHz										
1423	-42.82	Pk	28.6	-50.2	.5	11.8	-52.12	-13	-39.12	H
1423	-37.45	Pk	28.6	-50.2	.5	11.8	-46.75	-13	-33.75	V
2135.8	-43.47	Pk	31.9	-50.2	.5	11.8	-49.47	-13	-36.47	H
2135.8	-42.71	Pk	31.9	-50.2	.5	11.8	-48.71	-13	-35.71	V
4136.5	-51.71	Pk	33.5	-46.6	.3	11.8	-52.71	-13	-39.71	H
8351.2	-55.42	Pk	35.9	-42	.3	11.8	-49.42	-13	-36.42	V
High Channel, 711MHz										
1430.2	-44.14	Pk	28.5	-49.4	.5	11.8	-52.74	-13	-39.74	H
1430.2	-37.61	Pk	28.5	-49.4	.5	11.8	-46.21	-13	-33.21	V
1899.1	-45.51	Pk	30.9	-49.9	.3	11.8	-52.41	-13	-39.41	H
1895.5	-45.15	Pk	30.9	-49.7	.3	11.8	-51.85	-13	-38.85	V
2145.7	-46.46	Pk	32	-50.1	.5	11.8	-52.26	-13	-39.26	H
2145.7	-45.41	Pk	32	-50.1	.5	11.8	-51.21	-13	-38.21	V

LTE BAND 12 (QPSK 10.0MHZ BANDWIDTH, Config 1)

Project #:	16238088
Date:	2026-03-05
Test Engineer:	115747 / 11993
Configuration:	EUT Only
Mode	LTE 12 QPSK 10MHz
Chamber #:	Chamber 2

Frequency (GHz)	Meter Reading (dBm)	Det	88761 ACF (dB/m)	Gain/Loss (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 704MHz										
1398.7	-40.96	Pk	28.8	-49.3	.5	11.8	-49.16	-13	-36.16	H
1398.7	-38.84	Pk	28.8	-49.3	.5	11.8	-47.04	-13	-34.04	V
2098.9	-42.67	Pk	31.9	-49.2	.3	11.8	-47.87	-13	-34.87	H
2098.9	-41.65	Pk	31.9	-49.2	.3	11.8	-46.85	-13	-33.85	V
6712.3	-54.43	Pk	35.6	-43	.3	11.8	-49.73	-13	-36.73	H
6748.3	-55.14	Pk	35.6	-43.1	.2	11.8	-50.64	-13	-37.64	V
Mid Channel, 707.5MHz										
1405.9	-41.21	Pk	28.8	-49.5	.5	11.8	-49.61	-13	-36.61	H
1405.9	-36.4	Pk	28.8	-49.5	.5	11.8	-44.8	-13	-31.8	V
2108.8	-42.93	Pk	31.9	-49.8	.3	11.8	-48.73	-13	-35.73	H
2108.8	-40.32	Pk	31.9	-49.8	.3	11.8	-46.12	-13	-33.12	V
3440.8	-50.99	Pk	32.9	-46.2	.4	11.8	-52.09	-13	-39.09	H
3448.9	-52.05	Pk	32.9	-46.7	.4	11.8	-53.65	-13	-40.65	V
High Channel, 711MHz										
1413.1	-41.39	Pk	28.7	-49.5	.5	11.8	-49.89	-13	-36.89	H
1413.1	-39.36	Pk	28.7	-49.5	.5	11.8	-47.86	-13	-34.86	V
1914.4	-49.83	Pk	31	-48.7	.3	11.8	-55.43	-13	-42.43	H
1909	-46.01	Pk	31	-49.5	.3	11.8	-52.41	-13	-39.41	V
2119.6	-45.83	Pk	31.9	-49.8	.4	11.8	-51.53	-13	-38.53	H
2119.6	-42.77	Pk	31.9	-49.8	.4	11.8	-48.47	-13	-35.47	V
7739.2	-55.46	Pk	35.7	-42.3	.3	11.8	-49.96	-13	-36.96	H
7732.9	-54.75	Pk	35.7	-42.2	.4	11.8	-49.05	-13	-36.05	V

9.2.2. LTE BAND 13

LTE BAND 13 (QPSK 10.0MHZ BANDWIDTH, Config 0)

Project #:	16238088
Date:	2026-03-10
Test Engineer:	85501
Configuration:	EUT Only
Mode	LTE 13 QPSK 10MHz
Chamber #:	Chamber 4

Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Gain/Loss (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	Limit (dBm)	Margin (dB)	-40dBm (WB limit)	Margin (dB)	-50dBm (NB limit)	Margin (dB)	Polarity
Mid Channel, 782MHz														
1.594	-63.08	Pk	28.3	-35.6	.6	11.8	-57.98	-13	-44.98	-40	-17.98	-50	-7.98	H
1.5922	-62.79	Pk	28.2	-35.6	.6	11.8	-57.79	-13	-44.79	-40	-17.79	-50	-7.79	V
3.2905	-62.67	Pk	32.9	-34.3	.4	11.8	-51.87	-13	-38.87	-	-	-	-	H
3.1663	-61.86	Pk	32.9	-34.5	.4	11.8	-51.26	-13	-38.26	-	-	-	-	V
7.1461	-66.15	Pk	35.5	-27.5	.5	11.8	-45.85	-13	-32.85	-	-	-	-	H
7.2055	-66.74	Pk	35.5	-27.6	.5	11.8	-46.54	-13	-33.54	-	-	-	-	V
9.5716	-65.68	Pk	36.7	-24.8	.6	11.8	-41.38	-13	-28.38	-	-	-	-	H
9.5851	-66.42	Pk	36.6	-24.6	.6	11.8	-42.02	-13	-29.02	-	-	-	-	V

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

LTE BAND 13 (QPSK 10.0MHZ BANDWIDTH, Config 1)

Project #:	16238088
Date:	2026-03-10
Test Engineer:	85501
Configuration:	EUT Only
Mode	LTE 13 QPSK 10MHz
Chamber #:	Chamber 4

Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Gain/Loss (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	Limit (dBm)	Margin (dB)	-40dBm (WB limit)	Margin (dB)	-50dBm (NB limit)	Margin (dB)	Polarity
Mid Channel, 782MHz														
1.5913	-62.29	Pk	28.2	-35.6	.6	11.8	-57.29	-13	-44.29	-40	-17.29	-50	-7.29	H
1.5931	-62.97	Pk	28.3	-35.6	.6	11.8	-57.87	-13	-44.87	-40	-17.87	-50	-7.87	V
2.3329	-59.52	Pk	31.9	-35.8	.4	11.8	-51.22	-13	-38.22	-	-	-	-	H
2.2942	-62.61	Pk	31.9	-35.5	.6	11.8	-53.81	-13	-40.81	-	-	-	-	V
7.4647	-66.15	Pk	35.6	-27.5	.3	11.8	-45.95	-13	-32.95	-	-	-	-	H
7.7977	-66.66	Pk	35.7	-27.1	.5	11.8	-45.76	-13	-32.76	-	-	-	-	V
8.9668	-65.29	Pk	36	-25.2	.4	11.8	-42.29	-13	-29.29	-	-	-	-	H
9.1468	-65.66	Pk	36.2	-25	.5	11.8	-42.16	-13	-29.16	-	-	-	-	V

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

9.2.3. 5G NR n71

5G NR n71 (BPSK 35.0MHZ BANDWIDTH, Config 0)

Project #:	16238088
Date:	2026-03-19
Test Engineer:	84740 / 11993
Configuration:	EUT Only
Mode	5G NR n71 BPSK 35MHz
Chamber #:	Chamber 4

Frequency (GHz)	Meter Reading (dBm)	Det	206211 ACF(dB/m)	Gain/Loss (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	Limit (dBm)	Margin (dB)	Polarity
Mid Channel, 680.5MHz										
2.5354	-62.27	Pk	32.5	-35.5	.5	11.8	-52.97	-13	-39.97	H
2.3887	-61.51	Pk	32	-35.5	.5	11.8	-52.71	-13	-39.71	V
4.942	-63.59	Pk	33.8	-31.2	.3	11.8	-48.89	-13	-35.89	H
5.0329	-64.68	Pk	34	-31.5	.3	11.8	-50.08	-13	-37.08	V
9.5869	-66.89	Pk	36.6	-24.5	.6	11.8	-42.39	-13	-29.39	H
9.7057	-66.29	Pk	36.7	-25	.6	11.8	-42.19	-13	-29.19	V

5G NR n71 (BPSK 35.0MHZ BANDWIDTH, Config 1)

Project #:	16238088
Date:	2026-03-20
Test Engineer:	19289
Configuration:	EUT Only
Mode	5G NR n71 BPSK 35MHz
Chamber #:	Chamber 4

Frequency (GHz)	Meter Reading (dBm)	Det	206211 ACF(dB/m)	Gain/Loss (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	Limit (dBm)	Margin (dB)	Polarity
Mid Channel, 680.5MHz										
2.6164	-61.67	Pk	32.2	-35.3	.4	11.8	-52.57	-13	-39.57	H
2.4841	-61.03	Pk	32.3	-35.6	.4	11.8	-52.13	-13	-39.13	V
4.708	-64.6	Pk	34.1	-31.3	.3	11.8	-49.7	-13	-36.7	H
4.7107	-64.68	Pk	34.1	-31.4	.3	11.8	-49.88	-13	-36.88	V
9.595	-66.41	Pk	36.6	-24.7	.5	11.8	-42.21	-13	-29.21	H
9.6184	-66.66	Pk	36.6	-24.9	.5	11.8	-42.66	-13	-29.66	V

10. SETUP PHOTOS

Refer to 16238088-EP1d for setup photos.

END OF REPORT