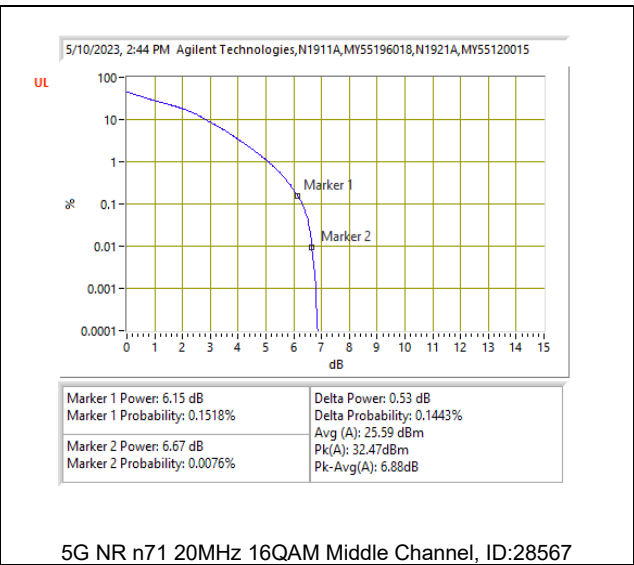
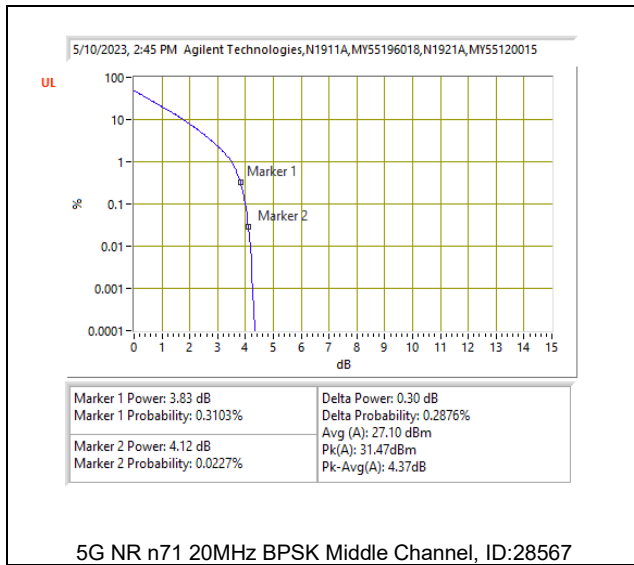


5G NR n71





9.5.15. 5G NR n77 (Part 27 3450-3550MHz)

Test Engineer ID:	28567	Test Date:	5/10/2023
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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 n77 (FCC Part 27 3450-3550MHz)	10MHz	3500.0	24	0	BPSK	33.59	29.22	4.37
					16QAM	34.49	27.61	6.88
	15MHz		36	0	BPSK	33.61	29.23	4.38
					16QAM	34.46	27.73	6.73
	20MHz		50	0	BPSK	33.46	29.26	4.20
					16QAM	34.54	27.75	6.79
	30MHz		75	0	BPSK	33.65	29.44	4.21
					16QAM	34.60	27.79	6.81
	40MHz		100	0	BPSK	33.39	29.41	3.98
					16QAM	34.51	27.81	6.70
	50MHz		128	0	BPSK	32.93	29.11	3.82
					16QAM	33.93	27.58	6.35
	60MHz		162	0	BPSK	32.90	29.11	3.79
					16QAM	33.89	27.53	6.36
	70MHz		180	0	BPSK	33.08	29.15	3.93
					16QAM	34.11	27.54	6.57
	80MHz		216	0	BPSK	33.08	29.15	3.93
					16QAM	33.57	27.57	6.00
	90MHz		243	0	BPSK	32.40	29.11	3.29
					16QAM	33.33	27.47	5.86
100MHz	270	0	BPSK	32.20	29.1	3.10		
			16QAM	33.31	27.45	5.86		
Duty Cycle Correction Factor (dB) =			0.00					
Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor								

9.5.16. 5G NR n77 (Part 27 3700-3980MHz)

Test Engineer ID:	28567	Test Date:	5/11/2022
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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 n77 (FCC Part 27 3700-3980MHz)	10MHz	3840.0	10	0	BPSK	33.19	28.9	4.29
					16QAM	34.27	27.42	6.85
	15MHz		24	0	BPSK	33.27	28.98	4.29
					16QAM	34.26	27.48	6.78
	20MHz		36	0	BPSK	33.18	28.97	4.21
					16QAM	34.23	27.47	6.76
	30MHz		50	0	BPSK	33.19	28.99	4.20
					16QAM	34.31	27.5	6.81
	40MHz		100	0	BPSK	33.08	28.97	4.11
					16QAM	34.19	27.5	6.69
	50MHz		128	0	BPSK	32.77	28.86	3.91
					16QAM	33.76	27.4	6.36
	60MHz		162	0	BPSK	32.77	28.87	3.90
					16QAM	33.71	27.31	6.40
	70MHz		180	0	BPSK	32.75	28.77	3.98
					16QAM	33.84	27.22	6.62
	80MHz		216	0	BPSK	32.37	28.89	3.48
					16QAM	33.19	27.2	5.99
	90MHz		243	0	BPSK	32.30	28.87	3.43
					16QAM	33.02	27.06	5.96
100MHz	270	0	BPSK	31.91	28.85	3.06		
			16QAM	32.86	27.07	5.79		
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.

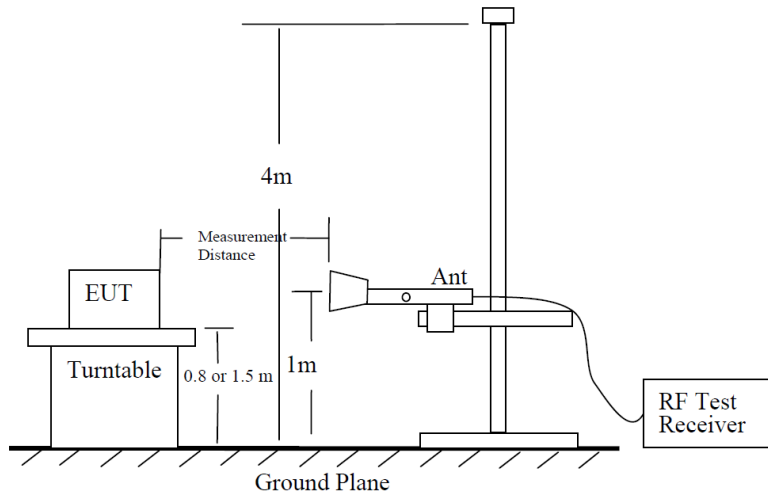


Figure 6—Test site-up for radiated ERP and/or EIRP measurements

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.

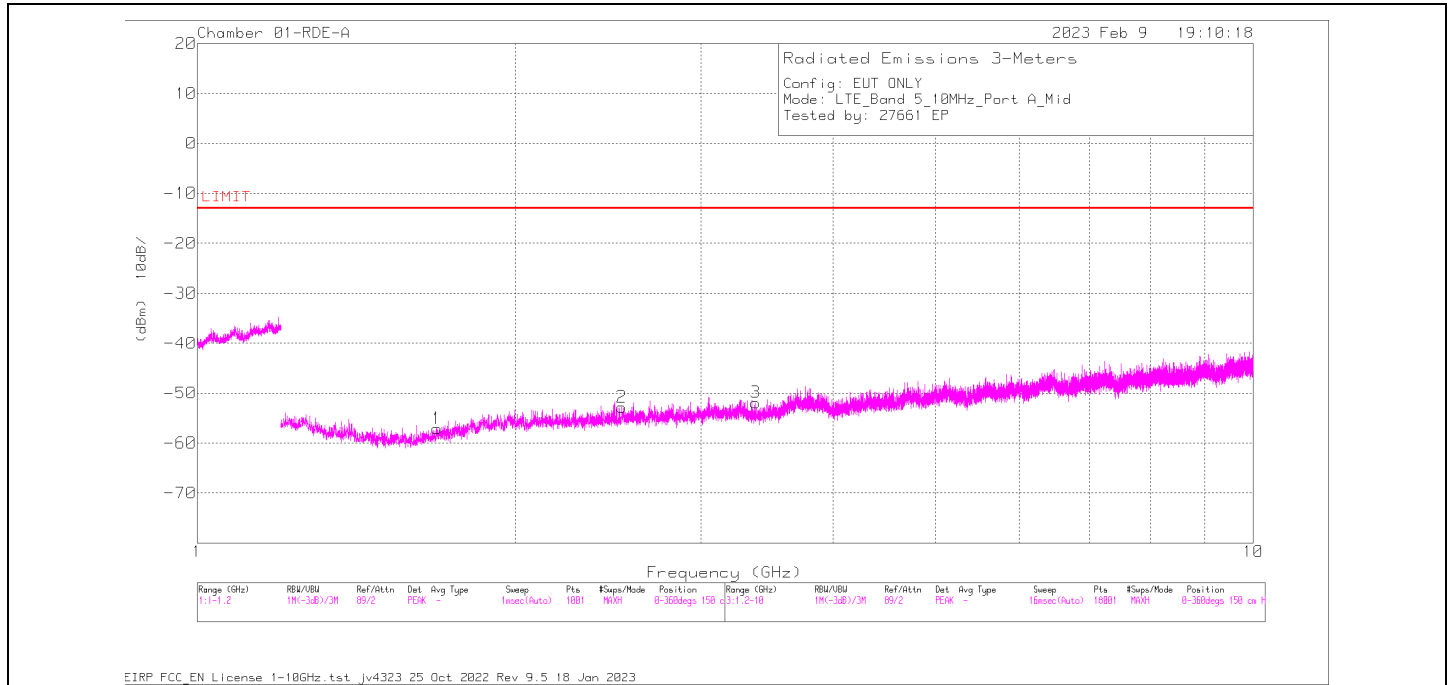
So, from d)

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

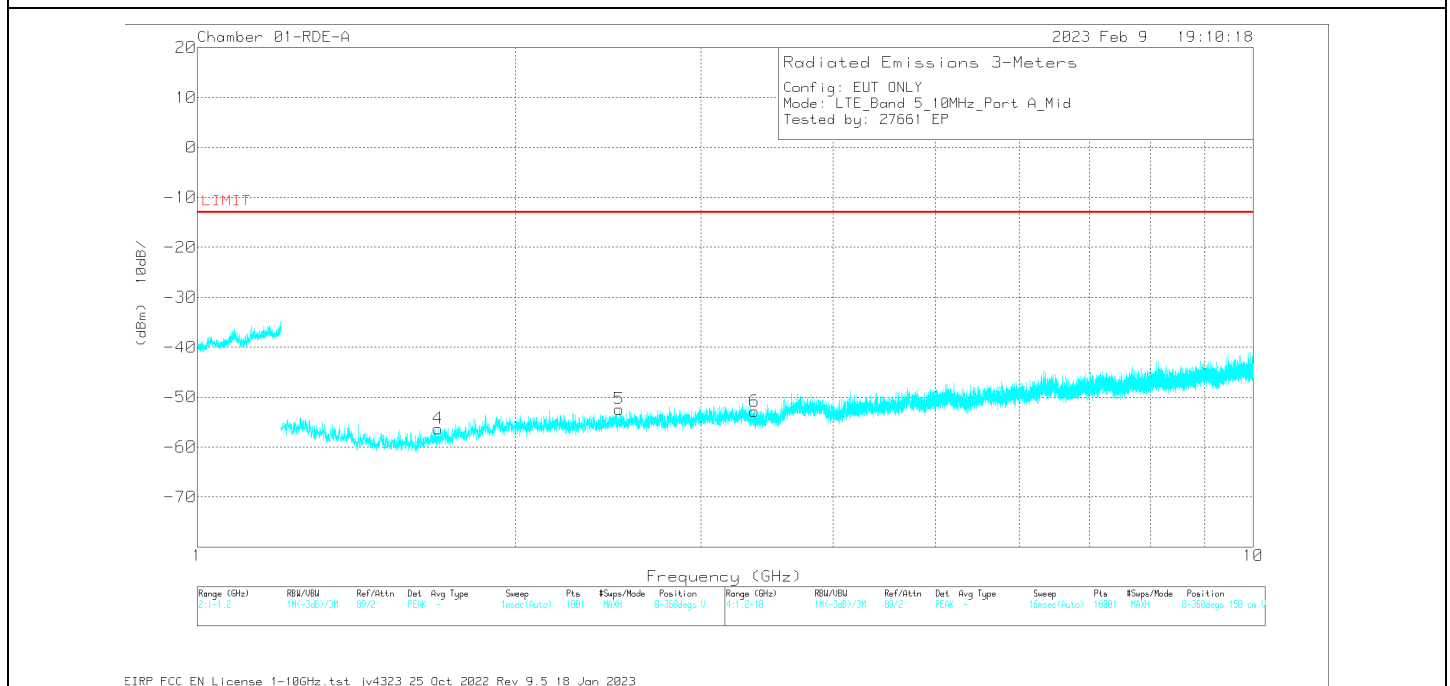
Then, $\text{EIRP (dBm)} = E \text{ (dB}\mu\text{V/m)} + 9.5424 - 104.8 = E \text{ (dB}\mu\text{V/m)} - 95.2576$

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	Horn Antenna ACF(dB)	HPF 1.2GHz T1737 1-18GHz	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
1	1.686933	37.43	Pk	28.7	.7	-95.2	-28.73	-57.1	-13	-44.1	H
4	1.691333	38.2	Pk	28.8	.7	-95.2	-28.79	-56.29	-13	-43.29	V
5	2.508267	37.44	Pk	32.2	.7	-95.2	-27.53	-52.39	-13	-39.39	V
2	2.521956	36.75	Pk	32.2	.8	-95.2	-27.36	-52.81	-13	-39.81	H
6	3.368712	35.52	Pk	32.4	.6	-95.2	-26.15	-52.83	-13	-39.83	V
3	3.380445	36.46	Pk	32.4	.6	-95.2	-26.15	-51.89	-13	-38.89	H

Pk - Peak detector

10.1. FIELD STRENGTH OF SPURIOUS RADIATION, ANT1

TEST PROCEDURE

KDB 971168 D01 v03r01/D02 v02r02

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

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 #:	4790592295
Date:	04/04/2023
Test Engineer:	26120
Configuration:	EUT only
Mode	LTE7 QPSK 20MHz
Chamber #:	01-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	200786 ACF (dB) 3mH	BRF 2495-2690MHz T1790 1-18GHz	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 2510MHz										
5.020313	35.37	Pk	34.5	.8	-95.2	-30.94	-55.47	-25	-30.47	H
5.020313	35.9	Pk	34.5	.8	-95.2	-30.94	-54.94	-25	-29.94	V
7.530000	33.94	Pk	35.9	.3	-95.2	-27.09	-52.15	-25	-27.15	H
7.529063	36.41	Pk	35.9	.3	-95.2	-27.01	-49.60	-25	-24.60	V
10.040625	31.76	Pk	37.4	.7	-95.2	-25.07	-50.41	-25	-25.41	H
10.040625	32.26	Pk	37.4	.7	-95.2	-25.07	-49.91	-25	-24.91	V
Mid Channel, 2535MHz										
5.070000	35.83	Pk	34.6	.7	-95.2	-30.80	-54.87	-25	-29.87	H
5.070000	38.4	Pk	34.6	.7	-95.2	-30.80	-52.30	-25	-27.30	V
7.605469	33.71	Pk	35.9	.4	-95.2	-27.23	-52.42	-25	-27.42	H
7.605469	33.48	Pk	35.9	.4	-95.2	-27.23	-52.65	-25	-27.65	V
10.140000	32.82	Pk	37.6	.7	-95.2	-25.16	-49.24	-25	-24.24	H
10.140000	31.61	Pk	37.6	.7	-95.2	-25.16	-50.45	-25	-25.45	V
High Channel, 2560MHz										
5.120156	36.55	Pk	34.8	.8	-95.2	-30.81	-53.86	-25	-28.86	H
5.118750	39.24	Pk	34.8	.8	-95.2	-30.78	-51.14	-25	-26.14	V
7.680000	31.78	Pk	35.9	.5	-95.2	-26.93	-53.95	-25	-28.95	H
7.680000	32.53	Pk	35.9	.5	-95.2	-26.93	-53.20	-25	-28.20	V
10.239375	33.69	Pk	37.6	.8	-95.2	-25.03	-48.14	-25	-23.14	H
10.240781	33.59	Pk	37.6	.8	-95.2	-25.02	-48.23	-25	-23.23	V

BPSK 5G NR n7 (40.0MHZ BANDWIDTH)

Project #:	4790592295
Date:	06/29/2023
Test Engineer:	32545
Configuration:	EUT only
Mode	n7 BPSK 40MHz
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	81886 ACF (dB) 3mH	BRF 2495-2690MHz T1790 1-18GHz	EIRP CF	Gain/Loss (dB)	Corrected Reading dBm	LIMIT	Margin (dB)	Polarity
Low Channel, 2520MHz										
5.040469	32.56	Pk	34.1	.6	-95.2	-23.28	-51.22	-25	-26.22	H
5.040469	29.43	Pk	34.1	.6	-95.2	-23.28	-54.35	-25	-29.35	V
7.560000	28.96	Pk	35.7	.3	-95.2	-19.50	-49.74	-25	-24.74	H
7.560000	29.15	Pk	35.7	.3	-95.2	-19.50	-49.55	-25	-24.55	V
10.080000	26.65	Pk	37.6	.6	-95.2	-17.17	-47.52	-25	-22.52	H
10.080000	27.21	Pk	37.6	.6	-95.2	-17.17	-46.96	-25	-21.96	V
Mid Channel, 2535MHz										
5.070000	31.96	Pk	34.2	.7	-95.2	-23.20	-51.54	-25	-26.54	H
5.070469	31.54	Pk	34.2	.7	-95.2	-23.20	-51.96	-25	-26.96	V
7.605000	29.82	Pk	35.7	.4	-95.2	-19.16	-48.44	-25	-23.44	H
7.605000	27.09	Pk	35.7	.4	-95.2	-19.16	-51.17	-25	-26.17	V
10.140469	27.6	Pk	37.6	.6	-95.2	-16.95	-46.35	-25	-21.35	H
10.140469	27.28	Pk	37.6	.6	-95.2	-16.95	-46.67	-25	-21.67	V
High Channel, 2550MHz										
5.100938	29.89	Pk	34.2	.8	-95.2	-23.28	-53.59	-25	-28.59	H
5.100469	29.61	Pk	34.2	.8	-95.2	-23.27	-53.86	-25	-28.86	V
7.650938	28.73	Pk	35.8	.3	-95.2	-18.88	-49.25	-25	-24.25	H
7.650469	27.98	Pk	35.8	.3	-95.2	-18.87	-49.99	-25	-24.99	V
10.200000	27.71	Pk	37.6	.8	-95.2	-16.90	-45.99	-25	-20.99	H
10.200000	28.13	Pk	37.6	.8	-95.2	-16.90	-45.57	-25	-20.57	V

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 #:	4790592295
Date:	06/29/2023
Test Engineer:	32186
Configuration:	EUT only
Mode	LTE12 QPSK 10MHz
Chamber #:	04-RDE-Q

Frequency (GHz)	Meter Reading (dBuV)	Det	84796 ACF (dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 704MHz									
1.398250	55.04	Pk	28.6	-95.2	-47.11	-58.67	-13	-45.67	H
1.397800	56	Pk	28.6	-95.2	-47.12	-57.72	-13	-44.72	V
2.098000	54.58	Pk	31.1	-95.2	-47.35	-56.87	-13	-43.87	H
2.098000	57.01	Pk	31.1	-95.2	-47.35	-54.44	-13	-41.44	V
2.796400	54.24	Pk	32.3	-95.2	-47.30	-55.96	-13	-42.96	H
2.796400	54.64	Pk	32.3	-95.2	-47.30	-55.56	-13	-42.56	V
Mid Channel, 707.5MHz									
1.405225	55.97	Pk	28.5	-95.2	-47.04	-57.77	-13	-44.77	H
1.405000	54.37	Pk	28.5	-95.2	-47.04	-59.37	-13	-46.37	V
2.107450	54.24	Pk	31.1	-95.2	-47.40	-57.26	-13	-44.26	H
2.107450	55.03	Pk	31.1	-95.2	-47.40	-56.47	-13	-43.47	V
2.810800	54.79	Pk	32.2	-95.2	-47.14	-55.35	-13	-42.35	H
2.810800	53.78	Pk	32.2	-95.2	-47.14	-56.36	-13	-43.36	V
High Channel, 711MHz									
1.412650	54.48	Pk	28.5	-95.2	-47.08	-59.3	-13	-46.30	H
1.412650	53.46	Pk	28.5	-95.2	-47.08	-60.32	-13	-47.32	V
2.118700	55.87	Pk	31.2	-95.2	-47.15	-55.28	-13	-42.28	H
2.118700	56.39	Pk	31.2	-95.2	-47.15	-54.76	-13	-41.76	V
2.824300	53.73	Pk	32.2	-95.2	-46.92	-56.19	-13	-43.19	H
2.824300	54.74	Pk	32.2	-95.2	-46.92	-55.18	-13	-42.18	V

BPSK 5G NR n12 (15.0MHZ BANDWIDTH)

Project #:	4790592295
Date:	06/29/2023
Test Engineer:	32545
Configuration:	EUT only
Mode	N12 BPSK 15MHz
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	81886 ACF (dB) 3mH	HPF 1.2GHz T1737 1-18GHz	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 706.5MHz										
1.413156	36.59	Pk	28.4	.9	-95.2	-29.27	-58.58	-13	-45.58	H
1.413644	37.28	Pk	28.4	.9	-95.2	-29.29	-57.91	-13	-44.91	V
2.122534	36.25	Pk	31.5	.5	-95.2	-28.12	-55.07	-13	-42.07	H
2.122534	36.76	Pk	31.5	.5	-95.2	-28.12	-54.56	-13	-41.56	V
2.826045	34.6	Pk	32.4	.7	-95.2	-26.62	-54.12	-13	-41.12	H
2.826045	35.7	Pk	32.4	.7	-95.2	-26.62	-53.02	-13	-40.02	V
Mid Channel, 707.5MHz										
1.415600	36.23	Pk	28.3	.9	-95.2	-29.28	-59.05	-13	-46.05	H
1.415600	36.58	Pk	28.3	.9	-95.2	-29.28	-58.70	-13	-45.7	V
2.123022	35.47	Pk	31.5	.5	-95.2	-28.10	-55.83	-13	-42.83	H
2.122534	35.99	Pk	31.5	.5	-95.2	-28.12	-55.33	-13	-42.33	V
2.830445	36.99	Pk	32.4	.7	-95.2	-26.78	-51.89	-13	-38.89	H
2.830445	35.88	Pk	32.4	.7	-95.2	-26.78	-53.00	-13	-40.00	V
High Channel, 708.5MHz										
1.417556	35.65	Pk	28.3	.9	-95.2	-29.20	-59.55	-13	-46.55	H
1.417556	37.16	Pk	28.3	.9	-95.2	-29.20	-58.04	-13	-45.04	V
2.125956	35.82	Pk	31.5	.5	-95.2	-28.03	-55.41	-13	-42.41	H
2.125467	36.35	Pk	31.5	.5	-95.2	-28.03	-54.88	-13	-41.88	V
2.834356	34.3	Pk	32.4	.7	-95.2	-26.72	-54.52	-13	-41.52	H
2.834356	34.47	Pk	32.4	.7	-95.2	-26.72	-54.35	-13	-41.35	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 #:	4790592295
Date:	07/5/2023
Test Engineer:	32186
Configuration:	EUT only
Mode	LTE13 QPSK 10MHz
Chamber #:	04-RDE-Q

Frequency (GHz)	Meter Reading (dBuV)	Det	84796 ACF (dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Mid Channel, 782MHz									
1.571500	55.48	Pk	27.8	-95.2	-47.44	-59.36	-40	-19.36	H
1.571500	54.32	Pk	27.8	-95.2	-47.44	-60.52	-40	-20.52	V
2.331100	55.2	Pk	31.5	-95.2	-48.03	-56.53	-13	-43.53	H
2.331100	55.52	Pk	31.5	-95.2	-48.03	-56.21	-13	-43.21	V
3.107800	53.03	Pk	32.9	-95.2	-46.73	-56.00	-13	-43.00	H
3.107800	53.1	Pk	32.9	-95.2	-46.73	-55.93	-13	-42.93	V

* 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

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 #:	4790592295
Date:	07/5/2023
Test Engineer:	32186
Configuration:	EUT only
Mode	LTE14 QPSK 10MHz
Chamber #:	04-RDE-Q

Frequency (GHz)	Meter Reading (dBuV)	Det	84796 ACF (dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Mid Channel, 793MHz									
1.576000	56.24	Pk	27.8	-95.2	-47.42	-58.58	-40	-18.58	H
1.576000	54.14	Pk	27.8	-95.2	-47.42	-60.68	-40	-20.68	V
2.364400	55.41	Pk	31.6	-95.2	-47.73	-55.92	-13	-42.92	H
2.363950	54.62	Pk	31.6	-95.2	-47.73	-56.71	-13	-43.71	V
3.151900	52.69	Pk	32.9	-95.2	-46.27	-55.88	-13	-42.88	H
3.151900	52.01	Pk	32.9	-95.2	-46.27	-56.56	-13	-43.56	V

BPSK 5G NR n14 (10.0MHZ BANDWIDTH)

Project #:	4790592295
Date:	07/1/2023
Test Engineer:	32545
Configuration:	EUT only
Mode	N14 BPSK 10MHz
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	81886 ACF (dB) 3mH	HPF 1.2GHz T1737 1-18GHz	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Mid Channel, 793MHz										
1.586711	36.23	Pk	28.3	.8	-95.2	-29.00	-58.87	-40	-18.87	H
1.587200	37.65	Pk	28.3	.8	-95.2	-28.98	-57.43	-40	-17.43	V
2.379200	36.13	Pk	32.1	.5	-95.2	-27.48	-53.95	-13	-40.95	H
2.379689	34.55	Pk	32.1	.5	-95.2	-27.47	-55.52	-13	-42.52	V
3.172178	33.45	Pk	33	.5	-95.2	-26.48	-54.73	-13	-41.73	H
3.172667	34.68	Pk	33	.5	-95.2	-26.44	-53.46	-13	-40.46	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 #:	4790592295
Date:	06/29/2023
Test Engineer:	32186
Configuration:	EUT only
Mode	LTE17 QPSK 10MHz
Chamber #:	04-RDE-Q

Frequency (GHz)	Meter Reading (dBuV)	Det	84796 ACF (dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 709MHz									
1.408150	54.42	Pk	28.5	-95.2	-46.99	-59.27	-13	-46.27	H
1.408150	54.27	Pk	28.5	-95.2	-46.99	-59.42	-13	-46.42	V
2.111950	57.17	Pk	31.2	-95.2	-47.24	-54.07	-13	-41.07	H
2.111500	54.21	Pk	31.2	-95.2	-47.24	-57.03	-13	-44.03	V
2.816650	55.05	Pk	32.2	-95.2	-47.05	-55.00	-13	-42.00	H
2.816200	53.77	Pk	32.2	-95.2	-47.03	-56.26	-13	-43.26	V
Mid Channel, 710MHz									
1.410850	56.58	Pk	28.5	-95.2	-47.07	-57.19	-13	-44.19	H
1.410850	55.45	Pk	28.5	-95.2	-47.07	-58.32	-13	-45.32	V
2.115100	54.7	Pk	31.2	-95.2	-47.33	-56.63	-13	-43.63	H
2.114650	55.2	Pk	31.2	-95.2	-47.33	-56.13	-13	-43.13	V
2.820250	54	Pk	32.2	-95.2	-46.99	-55.99	-13	-42.99	H
2.820250	55.04	Pk	32.2	-95.2	-46.99	-54.95	-13	-41.95	V
High Channel, 711MHz									
1.412650	54.38	Pk	28.5	-95.2	-47.08	-59.40	-13	-46.40	H
1.412650	53.69	Pk	28.5	-95.2	-47.08	-60.09	-13	-47.09	V
2.118250	54.25	Pk	31.2	-95.2	-47.16	-56.91	-13	-43.91	H
2.118250	55.88	Pk	31.2	-95.2	-47.16	-55.28	-13	-42.28	V
2.824300	54.36	Pk	32.2	-95.2	-46.92	-55.56	-13	-42.56	H
2.823850	54.06	Pk	32.2	-95.2	-46.90	-55.84	-13	-42.84	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 #:	4790592295
Date:	04/04/2023
Test Engineer:	25196
Configuration:	EUT only
Mode	LTE 25 QPSK 20MHz
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	200786 ACF (dB) 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 1860MHz									
3.714375	40.15	Pk	33.1	-95.2	-32.25	-54.20	-13	-41.20	H
3.689531	40.08	Pk	33.1	-95.2	-32.43	-54.45	-13	-41.45	V
5.567344	37.6	Pk	34.4	-95.2	-29.71	-52.91	-13	-39.91	H
5.559375	37.73	Pk	34.5	-95.2	-29.55	-52.52	-13	-39.52	V
7.434844	35.85	Pk	35.9	-95.2	-26.34	-49.79	-13	-36.79	H
7.462500	36.42	Pk	35.9	-95.2	-26.32	-49.20	-13	-36.20	V
Mid Channel, 1882.5MHz									
3.761250	40.52	Pk	33.2	-95.2	-32.11	-53.59	-13	-40.59	H
3.778594	41.45	Pk	33.3	-95.2	-31.98	-52.43	-13	-39.43	V
5.647031	38.79	Pk	34.5	-95.2	-30.06	-51.97	-13	-38.97	H
5.567344	39.68	Pk	34.4	-95.2	-29.71	-50.83	-13	-37.83	V
7.531406	35.6	Pk	35.9	-95.2	-26.29	-49.99	-13	-36.99	H
7.539844	36.89	Pk	35.9	-95.2	-26.20	-48.61	-13	-35.61	V
High Channel, 1905MHz									
3.798750	39.77	Pk	33.3	-95.2	-31.91	-54.04	-13	-41.04	H
3.802500	40.14	Pk	33.3	-95.2	-31.91	-53.67	-13	-40.67	V
5.721563	38.3	Pk	34.6	-95.2	-29.02	-51.32	-13	-38.32	H
5.750625	37.54	Pk	34.7	-95.2	-28.97	-51.93	-13	-38.93	V
7.629844	35.74	Pk	35.9	-95.2	-26.60	-50.16	-13	-37.16	H
7.650469	35.53	Pk	35.9	-95.2	-26.71	-50.48	-13	-37.48	V

BPSK 5G NR n25 (40.0MHZ BANDWIDTH)

Project #:	4790592295
Date:	04/21/2023
Test Engineer:	19226
Configuration:	EUT only
Mode	N25 BPSK 40MHz
Chamber #:	05-RDE-D

Frequency (GHz)	Meter Reading (dBuV)	Det	80402 ACF(dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 1870MHz									
3.740500	54.25	Pk	33.4	-95.2	-47.00	-54.55	-13	-41.55	H
3.740500	53.93	Pk	33.4	-95.2	-47.00	-54.87	-13	-41.87	V
5.610500	53.97	Pk	34.8	-95.2	-46.63	-53.06	-13	-40.06	H
5.610500	55	Pk	34.8	-95.2	-46.63	-52.03	-13	-39.03	V
7.408500	52.42	Pk	35.8	-95.2	-45.94	-52.92	-13	-39.92	H
7.408500	54.11	Pk	35.8	-95.2	-45.94	-51.23	-13	-38.23	V
Mid Channel, 1882.5MHz									
3.766500	53.55	Pk	33.4	-95.2	-46.87	-55.12	-13	-42.12	H
3.766500	55.15	Pk	33.4	-95.2	-46.87	-53.52	-13	-40.52	V
5.649500	54.35	Pk	34.8	-95.2	-46.72	-52.77	-13	-39.77	H
5.649500	54.03	Pk	34.8	-95.2	-46.72	-53.09	-13	-40.09	V
7.532500	52.51	Pk	35.8	-95.2	-45.69	-52.58	-13	-39.58	H
7.532500	51.67	Pk	35.8	-95.2	-45.69	-53.42	-13	-40.42	V
High Channel, 1895MHz									
3.790000	53.42	Pk	33.5	-95.2	-46.61	-54.89	-13	-41.89	H
3.790000	53.83	Pk	33.5	-95.2	-46.61	-54.48	-13	-41.48	V
5.685500	51.93	Pk	34.8	-95.2	-46.42	-54.89	-13	-41.89	H
5.685500	53.3	Pk	34.8	-95.2	-46.42	-53.52	-13	-40.52	V
7.580500	51.71	Pk	35.8	-95.2	-45.91	-53.60	-13	-40.60	H
7.580500	52.47	Pk	35.8	-95.2	-45.91	-52.84	-13	-39.84	V

10.1.7. LTE BAND 26 AND 5G NR n26 (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 #:	4790592295
Date:	06/30/2023
Test Engineer:	32981
Configuration:	EUT only
Mode	LTE 26 QPSK 10MHz
Chamber #:	04-RDE-Q

Frequency (GHz)	Meter Reading (dBuV)	Det	84796 ACF (dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Mid Channel, 819MHz									
1.645750	56.63	Pk	28.6	-95.2	-47.74	-57.71	-13	-44.71	H
1.644850	56.41	Pk	28.6	-95.2	-47.71	-57.90	-13	-44.90	V
2.443600	57.95	Pk	31.9	-95.2	-47.43	-52.78	-13	-39.78	H
2.444050	56.2	Pk	31.9	-95.2	-47.42	-54.52	-13	-41.52	V
3.252250	55.24	Pk	32.9	-95.2	-46.37	-53.43	-13	-40.43	H
3.253600	55.97	Pk	32.9	-95.2	-46.39	-52.72	-13	-39.72	V

BPSK 5G NR n26 (10.0MHZ BANDWIDTH)

Project #:	4790592295
Date:	07/01/2023
Test Engineer:	32545
Configuration:	EUT only
Mode	N26 BPSK 10MHz
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	81886 ACF (dB) 3mH	HPF 1.2GHz T1737 1-18GHz	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Mid Channel, 819MHz										
1.638533	35.39	Pk	28.8	.7	-95.2	-28.83	-59.14	-13	-46.14	H
1.638533	35.28	Pk	28.8	.7	-95.2	-28.83	-59.25	-13	-46.25	V
2.447645	35.3	Pk	32.4	.5	-95.2	-27.59	-54.59	-13	-41.59	H
2.448134	35.28	Pk	32.4	.5	-95.2	-27.61	-54.63	-13	-41.63	V
3.276800	35.59	Pk	33	.8	-95.2	-25.94	-51.75	-13	-38.75	H
3.276312	35.17	Pk	33	.8	-95.2	-25.93	-52.16	-13	-39.16	V

10.1.8. LTE BAND 26 AND 5G NR n26 (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 #:	4790592295
Date:	06/30/2023
Test Engineer:	32981
Configuration:	EUT only
Mode	LTE 26 QPSK 10MHz
Chamber #:	04-RDE-Q

Frequency (GHz)	Meter Reading (dBuV)	Det	84796 ACF (dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 831.5MHz									
1.649800	59.62	Pk	28.7	-95.2	-47.76	-54.64	-13	-41.64	H
1.650250	56.13	Pk	28.7	-95.2	-47.76	-58.13	-13	-45.13	V
2.474650	58.05	Pk	32.1	-95.2	-47.81	-52.86	-13	-39.86	H
2.474650	56.1	Pk	32.1	-95.2	-47.81	-54.81	-13	-41.81	V
3.296350	53.61	Pk	32.9	-95.2	-46.07	-54.76	-13	-41.76	H
3.297250	53.77	Pk	32.9	-95.2	-46.04	-54.57	-13	-41.57	V
Mid Channel, 836.5MHz									
1.659250	55.41	Pk	28.9	-95.2	-47.78	-58.67	-13	-45.67	H
1.659250	55.87	Pk	28.9	-95.2	-47.78	-58.21	-13	-45.21	V
2.489050	58.13	Pk	32.2	-95.2	-47.79	-52.66	-13	-39.66	H
2.487700	55.33	Pk	32.2	-95.2	-47.76	-55.43	-13	-42.43	V
3.314800	53.29	Pk	32.8	-95.2	-46.15	-55.26	-13	-42.26	H
3.315250	54.87	Pk	32.8	-95.2	-46.19	-53.72	-13	-40.72	V
High Channel, 841.5MHz									
1.673200	56.17	Pk	29.1	-95.2	-47.72	-57.65	-13	-44.65	H
1.674100	55.76	Pk	29.1	-95.2	-47.75	-58.09	-13	-45.09	V
2.505250	57.16	Pk	32.2	-95.2	-47.76	-53.60	-13	-40.60	H
2.504350	56.99	Pk	32.2	-95.2	-47.75	-53.76	-13	-40.76	V
3.335050	53.75	Pk	32.8	-95.2	-46.50	-55.15	-13	-42.15	H
3.336400	53.98	Pk	32.8	-95.2	-46.45	-54.87	-13	-41.87	V

BPSK 5G NR n26 (20.0MHZ BANDWIDTH)

Project #:	4790592295
Date:	06/30/2023
Test Engineer:	32545
Configuration:	EUT only
Mode	N26 BPSK 20MHz
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	81886 ACF (dB) 3mH	HPF 1.2GHz T1737 1-18GHz	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 834.0MHz										
1.668845	36.63	Pk	29.1	.7	-95.2	-28.78	-57.55	-13	-44.55	H
1.668845	36.39	Pk	29.1	.7	-95.2	-28.78	-57.79	-13	-44.79	V
2.473556	37.9	Pk	32.5	.5	-95.2	-27.57	-51.87	-13	-38.87	H
2.473556	40.07	Pk	32.5	.5	-95.2	-27.57	-49.70	-13	-36.70	V
3.335956	34.64	Pk	32.8	.5	-95.2	-26.23	-53.49	-13	-40.49	H
3.336445	33.36	Pk	32.8	.5	-95.2	-26.24	-54.78	-13	-41.78	V
Mid Channel, 836.5MHz										
1.673489	35.75	Pk	29.1	.7	-95.2	-28.69	-58.34	-13	-45.34	H
1.673245	37.21	Pk	29.1	.7	-95.2	-28.72	-56.91	-13	-43.91	V
2.509245	34	Pk	32.5	.7	-95.2	-27.55	-55.55	-13	-42.55	H
2.509245	34.65	Pk	32.5	.7	-95.2	-27.55	-54.90	-13	-41.90	V
3.346223	33.67	Pk	32.8	.5	-95.2	-26.25	-54.48	-13	-41.48	H
3.346223	34.23	Pk	32.8	.5	-95.2	-26.25	-53.92	-13	-40.92	V
High Channel, 839.0Hz										
1.679111	36.79	Pk	29.2	.7	-95.2	-28.74	-57.25	-13	-44.25	H
1.679111	36.06	Pk	29.2	.7	-95.2	-28.74	-57.98	-13	-44.98	V
2.488711	38.71	Pk	32.5	.5	-95.2	-27.55	-51.04	-13	-38.04	H
2.488711	40.93	Pk	32.5	.5	-95.2	-27.55	-48.82	-13	-35.82	V
3.356978	33.38	Pk	32.8	.6	-95.2	-26.09	-54.51	-13	-41.51	H
3.356978	34.17	Pk	32.8	.6	-95.2	-26.09	-53.72	-13	-40.72	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 #:	4790592295
Date:	07/8/2023
Test Engineer:	32545
Configuration:	EUT only
Mode	LTE 30 QPSK 10MHz
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	81886 ACF (dB) 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Mid Channel, 2310MHz									
4.620000	22.62	RMS	34	-95.2	-23.85	-62.43	-40	-22.43	H
4.620000	22.31	RMS	34	-95.2	-23.85	-62.74	-40	-22.74	V
6.930469	19.81	RMS	35.7	-95.2	-19.57	-59.26	-40	-19.26	H
6.930938	18.88	RMS	35.7	-95.2	-19.55	-60.17	-40	-20.17	V
9.240000	18.17	RMS	36.1	-95.2	-17.47	-58.40	-40	-18.40	H
9.240000	18.74	RMS	36.1	-95.2	-17.47	-57.83	-40	-17.83	V

BPSK 5G NR n30 (10.0MHZ BANDWIDTH)

Project #:	4790592295
Date:	07/5/2023
Test Engineer:	32545
Configuration:	EUT only
Mode	N30 BPSK 10MHz
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	81886 ACF (dB) 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Mid Channel, 2310MHz									
4.620938	22.03	RMS	34	-95.2	-23.87	-63.04	-40	-23.04	H
4.620469	22.13	RMS	34	-95.2	-23.86	-62.93	-40	-22.93	V
6.930469	18.97	RMS	35.7	-95.2	-19.57	-60.10	-40	-20.10	H
6.930469	19.03	RMS	35.7	-95.2	-19.57	-60.04	-40	-20.04	V
9.240000	18.14	RMS	36.1	-95.2	-17.47	-58.43	-40	-18.43	H
9.240000	18.75	RMS	36.1	-95.2	-17.47	-57.82	-40	-17.82	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 #:	4790592295
Date:	04/4/2023
Test Engineer:	26120
Configuration:	EUT only
Mode	LTE 41 QPSK 20MHz
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	200786 ACF (dB) 3mH	BRF 2495-2690MHz T1790 1-18GHz	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 2506MHz										
5.011875	36.49	Pk	34.5	.8	-95.2	-30.86	-54.27	-25	-29.27	H
5.011875	35.9	Pk	34.5	.8	-95.2	-30.86	-54.86	-25	-29.86	V
7.518281	32.97	Pk	35.9	.3	-95.2	-26.86	-52.89	-25	-27.89	H
7.518281	34.54	Pk	35.9	.3	-95.2	-26.86	-51.32	-25	-26.32	V
10.024219	31.71	Pk	37.4	.6	-95.2	-24.98	-50.47	-25	-25.47	H
10.023750	34.24	Pk	37.4	.6	-95.2	-24.99	-47.95	-25	-22.95	V
Mid Channel, 2593MHz										
5.181094	37.16	Pk	34.7	.7	-95.2	-30.67	-53.31	-25	-28.31	H
5.181094	38.34	Pk	34.7	.7	-95.2	-30.67	-52.13	-25	-27.13	V
7.779375	31.91	Pk	35.9	.3	-95.2	-27.04	-54.13	-25	-29.13	H
7.779375	33.01	Pk	35.9	.3	-95.2	-27.04	-53.03	-25	-28.03	V
10.372500	31.94	Pk	37.7	.8	-95.2	-24.98	-49.74	-25	-24.74	H
10.372500	33.02	Pk	37.7	.8	-95.2	-24.98	-48.66	-25	-23.66	V
High Channel, 2680MHz										
5.360156	35	Pk	34.7	.5	-95.2	-30.09	-55.09	-25	-30.09	H
5.360156	35.75	Pk	34.7	.5	-95.2	-30.09	-54.34	-25	-29.34	V
8.040469	33.93	Pk	36	.4	-95.2	-26.63	-51.50	-25	-26.50	H
8.040469	32.9	Pk	36	.4	-95.2	-26.63	-52.53	-25	-27.53	V
10.720313	32.02	Pk	37.7	.6	-95.2	-23.97	-48.85	-25	-23.85	H
10.720313	33.35	Pk	37.7	.6	-95.2	-23.97	-47.52	-25	-22.52	V

BPSK LTE BAND n41 (100.0MHZ BANDWIDTH)

Project #:	4790592295
Date:	07/2/2023
Test Engineer:	32545
Configuration:	EUT only
Mode	N41 BPSK 100MHz
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	81886 ACF (dB) 3mH	BRF 2495-2690MHz T1790 1-18GHz	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 2546MHz										
5.092031	30.13	Pk	34.2	.8	-95.2	-23.25	-53.32	-25	-28.32	H
5.092031	31.85	Pk	34.2	.8	-95.2	-23.25	-51.60	-25	-26.60	V
7.638750	28.33	Pk	35.8	.4	-95.2	-18.96	-49.63	-25	-24.63	H
7.639688	28.61	Pk	35.8	.4	-95.2	-18.96	-49.35	-25	-24.35	V
10.185000	27.57	Pk	37.6	.6	-95.2	-16.89	-46.32	-25	-21.32	H
10.184063	26.91	Pk	37.6	.6	-95.2	-16.83	-46.92	-25	-21.92	V
Mid Channel, 2593MHz										
5.186719	33.98	Pk	34.1	.8	-95.2	-23.02	-49.34	-25	-24.34	H
5.186719	30.98	Pk	34.1	.8	-95.2	-23.02	-52.34	-25	-27.34	V
7.778906	30.07	Pk	35.8	.3	-95.2	-18.99	-48.02	-25	-23.02	H
7.779375	29.49	Pk	35.8	.3	-95.2	-18.99	-48.60	-25	-23.60	V
10.372500	26.63	Pk	37.8	.8	-95.2	-16.38	-46.35	-25	-21.35	H
10.372500	26.39	Pk	37.8	.8	-95.2	-16.38	-46.59	-25	-21.59	V
High Channel, 2640MHz										
5.280938	30.44	Pk	34.3	.3	-95.2	-23.53	-53.69	-25	-28.69	H
5.280938	30.18	Pk	34.3	.3	-95.2	-23.53	-53.95	-25	-28.95	V
7.920469	28.8	Pk	35.9	.2	-95.2	-19.13	-49.43	-25	-24.43	H
7.918594	28.72	Pk	35.9	.2	-95.2	-19.12	-49.50	-25	-24.50	V
10.560469	25.68	Pk	37.9	.7	-95.2	-16.38	-47.30	-25	-22.30	H
10.560469	29	Pk	37.9	.7	-95.2	-16.38	-43.98	-25	-18.98	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 #:	4790592295
Date:	04/04/2023
Test Engineer:	26120
Configuration:	EUT only
Mode	LTE 66 QPSK 20MHz
Chamber #:	01-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	200786 ACF (dB) 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 1720MHz									
3.440156	39.22	Pk	32.6	-95.2	-32.97	-56.35	-13	-43.35	H
3.440156	38.96	Pk	32.6	-95.2	-32.97	-56.61	-13	-43.61	V
5.160000	34.94	Pk	34.8	-95.2	-29.57	-55.03	-13	-42.03	H
5.160000	38.02	Pk	34.8	-95.2	-29.57	-51.95	-13	-38.95	V
6.879844	33.67	Pk	35.7	-95.2	-26.45	-52.28	-13	-39.28	H
6.879844	33.16	Pk	35.7	-95.2	-26.45	-52.79	-13	-39.79	V
Mid Channel, 1745MHz									
3.490313	39.46	Pk	32.6	-95.2	-32.94	-56.08	-13	-43.08	H
3.490313	38.74	Pk	32.6	-95.2	-32.94	-56.80	-13	-43.80	V
5.235000	35.23	Pk	34.7	-95.2	-28.67	-53.94	-13	-40.94	H
5.235000	34.62	Pk	34.7	-95.2	-28.67	-54.55	-13	-41.55	V
6.980156	33.75	Pk	35.7	-95.2	-26.74	-52.49	-13	-39.49	H
6.980156	33.48	Pk	35.7	-95.2	-26.74	-52.76	-13	-39.76	V
High Channel, 1770MHz									
3.540000	37.86	Pk	32.7	-95.2	-32.86	-57.50	-13	-44.50	H
3.538125	38.43	Pk	32.7	-95.2	-32.80	-56.87	-13	-43.87	V
5.310000	36.33	Pk	34.7	-95.2	-29.84	-54.01	-13	-41.01	H
5.309531	34.47	Pk	34.7	-95.2	-29.85	-55.88	-13	-42.88	V
7.078125	33.16	Pk	35.7	-95.2	-26.92	-53.26	-13	-40.26	H
7.078125	33.42	Pk	35.7	-95.2	-26.92	-53.00	-13	-40.00	V

BPSK 5G NR n66 (40.0MHZ BANDWIDTH)

Project #:	4790592295
Date:	04/26/2023
Test Engineer:	19226
Configuration:	EUT only
Mode	N66 BPSK 40MHz
Chamber #:	05-RDE-D

Frequency (GHz)	Meter Reading (dBuV)	Det	80402 ACF(dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 1730MHz									
3.460500	54.23	Pk	32.9	-95.2	-46.75	-54.82	-13	-41.82	H
3.460500	53.51	Pk	32.9	-95.2	-46.75	-55.54	-13	-42.54	V
5.190500	54.79	Pk	34.5	-95.2	-47.26	-53.17	-13	-40.17	H
5.190500	54.75	Pk	34.5	-95.2	-47.26	-53.21	-13	-40.21	V
6.920500	53.28	Pk	35.7	-95.2	-45.56	-51.78	-13	-38.78	H
6.920500	51.53	Pk	35.7	-95.2	-45.56	-53.53	-13	-40.53	V
Mid Channel, 1745MHz									
3.490500	53.09	Pk	33	-95.2	-46.71	-55.82	-13	-42.82	H
3.490500	53.81	Pk	33	-95.2	-46.71	-55.10	-13	-42.10	V
5.235500	53.44	Pk	34.5	-95.2	-47.23	-54.49	-13	-41.49	H
5.235500	53.87	Pk	34.5	-95.2	-47.23	-54.06	-13	-41.06	V
6.980500	53.42	Pk	35.8	-95.2	-45.89	-51.87	-13	-38.87	H
6.980500	53.13	Pk	35.8	-95.2	-45.89	-52.16	-13	-39.16	V
High Channel, 1760MHz									
3.520500	53.14	Pk	32.9	-95.2	-46.62	-55.78	-13	-42.78	H
3.520500	53.68	Pk	32.9	-95.2	-46.62	-55.24	-13	-42.24	V
5.280500	53.99	Pk	34.6	-95.2	-47.01	-53.62	-13	-40.62	H
5.280500	54.67	Pk	34.6	-95.2	-47.01	-52.94	-13	-39.94	V
7.040500	52.72	Pk	35.9	-95.2	-45.74	-52.32	-13	-39.32	H
7.040500	52.41	Pk	35.9	-95.2	-45.74	-52.63	-13	-39.63	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 #:	4790592295
Date:	04/26/2023
Test Engineer:	27700
Configuration:	EUT only
Mode	N70 BPSK 15MHz
Chamber #:	04-RDE-T

Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB) 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Mid Channel, 1702.5MHz									
3.386500	54.83	Pk	32.7	-95.2	-44.30	-51.97	-13	-38.97	H
3.400500	54.28	Pk	32.7	-95.2	-44.16	-52.38	-13	-39.38	V
5.089500	53.42	Pk	34.1	-95.2	-45.48	-53.16	-13	-40.16	H
5.105000	53.68	Pk	34.1	-95.2	-45.44	-52.86	-13	-39.86	V
6.821000	53.51	Pk	35.6	-95.2	-44.38	-50.47	-13	-37.47	H
6.799500	53.59	Pk	35.6	-95.2	-44.46	-50.47	-13	-37.47	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 #:	4790592295
Date:	06/29/2023
Test Engineer:	32186
Configuration:	EUT only
Mode	LTE 71 QPSK 20MHz
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	84796 ACF (dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 673MHz									
1.326700	53.17	Pk	29	-95.2	-47.19	-60.22	-13	-47.22	H
1.326700	54.05	Pk	29	-95.2	-47.19	-59.34	-13	-46.34	V
1.989550	54.1	Pk	30.9	-95.2	-47.37	-57.57	-13	-44.57	H
1.989550	54.6	Pk	30.9	-95.2	-47.37	-57.07	-13	-44.07	V
2.652400	53.74	Pk	32.4	-95.2	-47.25	-56.31	-13	-43.31	H
2.652400	53.3	Pk	32.4	-95.2	-47.25	-56.75	-13	-43.75	V
Mid Channel, 680.5MHz									
1.342000	53.05	Pk	29	-95.2	-47.29	-60.44	-13	-47.44	H
1.342000	53.32	Pk	29	-95.2	-47.29	-60.17	-13	-47.17	V
2.011600	53.88	Pk	31	-95.2	-47.5	-57.82	-13	-44.82	H
2.011600	54.92	Pk	31	-95.2	-47.5	-56.78	-13	-43.78	V
2.683000	54.21	Pk	32.5	-95.2	-46.72	-55.21	-13	-42.21	H
2.683000	54.45	Pk	32.5	-95.2	-46.72	-54.97	-13	-41.97	V
High Channel, 688MHz									
1.356850	56.98	Pk	28.9	-95.2	-47.3	-56.62	-13	-43.62	H
1.356850	56.06	Pk	28.9	-95.2	-47.3	-57.54	-13	-44.54	V
2.037250	59.69	Pk	31	-95.2	-47.85	-52.36	-13	-39.36	H
2.037250	63.65	Pk	31	-95.2	-47.85	-48.40	-13	-35.40	V
2.712250	52.95	Pk	32.4	-95.2	-46.64	-56.49	-13	-43.49	H
2.712250	52.13	Pk	32.4	-95.2	-46.64	-57.31	-13	-44.31	V

BPSK 5G NR n71 (20.0MHZ BANDWIDTH)

Project #:	4790592295
Date:	04/26/2023
Test Engineer:	27700
Configuration:	EUT only
Mode	N71 BPSK 20MHz
Chamber #:	04-RDE-T

Frequency (GHz)	Meter Reading (dBuV)	Det	81886 ACF (dB) 3mH	HPF 1.2GHz T1737 1-18GHz	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 673MHz										
1.346178	39.67	Pk	29	1.1	-95.2	-29.57	-55.00	-13	-42.00	H
1.346178	38.23	Pk	29	1.1	-95.2	-29.57	-56.44	-13	-43.44	V
2.019867	34.49	Pk	31.5	.5	-95.2	-28.39	-57.10	-13	-44.10	H
2.019378	35.97	Pk	31.5	.5	-95.2	-28.36	-55.59	-13	-42.59	V
2.692089	35.13	Pk	32.3	.5	-95.2	-27.28	-54.55	-13	-41.55	H
2.692578	35.36	Pk	32.3	.5	-95.2	-27.25	-54.29	-13	-41.29	V
Mid Channel, 680.5MHz										
1.361822	37.55	Pk	28.9	1	-95.2	-29.43	-57.18	-13	-44.18	H
1.361822	37.98	Pk	28.9	1	-95.2	-29.43	-56.75	-13	-43.75	V
2.041378	35.92	Pk	31.6	.5	-95.2	-28.12	-55.30	-13	-42.30	H
2.041867	37.39	Pk	31.6	.5	-95.2	-28.13	-53.84	-13	-40.84	V
2.722400	36.27	Pk	32.4	.5	-95.2	-27.11	-53.14	-13	-40.14	H
2.722400	34.53	Pk	32.4	.5	-95.2	-27.11	-54.88	-13	-41.88	V
High Channel, 688MHz										
1.376489	37.14	Pk	28.7	1	-95.2	-29.39	-57.75	-13	-44.75	H
1.376978	36.98	Pk	28.7	1	-95.2	-29.39	-57.91	-13	-44.91	V
2.064845	34.92	Pk	31.6	.5	-95.2	-28.27	-56.45	-13	-43.45	H
2.064845	36.6	Pk	31.6	.5	-95.2	-28.27	-54.77	-13	-41.77	V
2.752223	34.91	Pk	32.3	.5	-95.2	-26.85	-54.34	-13	-41.34	H
2.752223	35.08	Pk	32.3	.5	-95.2	-26.85	-54.17	-13	-41.17	V

10.2. FIELD STRENGTH OF SPURIOUS RADIATION, ANT2

TEST PROCEDURE

KDB 971168 D01 v03r01/D02 v02r02

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 #:	4790592295
Date:	06/30/2023
Test Engineer:	32981
Configuration:	EUT only
Mode	LTE7 QPSK 20MHz
Chamber #:	04-RDE-Q

Frequency (GHz)	Meter Reading (dBuV)	Det	84796 ACF (dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 2510MHz									
5.001500	53.91	Pk	34.3	-95.2	-46.64	-53.63	-25	-28.63	H
5.000000	53.58	Pk	34.3	-95.2	-46.53	-53.85	-25	-28.85	V
7.504000	52.47	Pk	35.5	-95.2	-44.86	-52.09	-25	-27.09	H
7.503000	51.72	Pk	35.5	-95.2	-44.88	-52.86	-25	-27.86	V
10.015500	54.01	Pk	37.1	-95.2	-44.05	-48.14	-25	-23.14	H
10.014000	52.96	Pk	37.1	-95.2	-44.05	-49.19	-25	-24.19	V
Mid Channel, 2535MHz									
5.050000	54.13	Pk	34.3	-95.2	-46.64	-53.41	-25	-28.41	H
5.051500	53.47	Pk	34.3	-95.2	-46.54	-53.97	-25	-28.97	V
7.578000	54.79	Pk	35.5	-95.2	-44.43	-49.34	-25	-24.34	H
7.578000	57.24	Pk	35.5	-95.2	-44.43	-46.89	-25	-21.89	V
10.100500	53.29	Pk	37.2	-95.2	-44.39	-49.10	-25	-24.10	H
10.103000	53.38	Pk	37.2	-95.2	-44.36	-48.98	-25	-23.98	V
High Channel, 2560MHz									
5.097500	53.78	Pk	34.2	-95.2	-46.47	-53.69	-25	-28.69	H
5.099000	53.42	Pk	34.3	-95.2	-46.39	-53.87	-25	-28.87	V
7.653000	52.19	Pk	35.6	-95.2	-44.51	-51.92	-25	-26.92	H
7.653500	57.42	Pk	35.6	-95.2	-44.49	-46.67	-25	-21.67	V
10.204500	55.07	Pk	37.3	-95.2	-43.88	-46.71	-25	-21.71	H
10.206500	54.83	Pk	37.3	-95.2	-43.96	-47.03	-25	-22.03	V

BPSK 5G NR n7 (50.0MHZ BANDWIDTH)

Project #:	4790592295
Date:	07/2/2023
Test Engineer:	32545
Configuration:	EUT only
Mode	n7 BPSK 50MHz
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	81886 ACF (dB) 3mH	BRF 2495-2690MHz T1790 1-18GHz	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 2520MHz										
5.040000	30.77	Pk	34.1	.6	-95.2	-23.30	-53.03	-25	-28.03	H
5.040000	29.59	Pk	34.1	.6	-95.2	-23.30	-54.21	-25	-29.21	V
7.560000	29.07	Pk	35.7	.3	-95.2	-19.50	-49.63	-25	-24.63	H
7.560469	29.02	Pk	35.7	.3	-95.2	-19.49	-49.67	-25	-24.67	V
10.080469	26.99	Pk	37.6	.6	-95.2	-17.18	-47.19	-25	-22.19	H
10.080469	27.08	Pk	37.6	.6	-95.2	-17.18	-47.10	-25	-22.10	V
Mid Channel, 2535MHz										
5.070469	30.63	Pk	34.2	.7	-95.2	-23.20	-52.87	-25	-27.87	H
5.070000	31.48	Pk	34.2	.7	-95.2	-23.20	-52.02	-25	-27.02	V
7.605469	29.08	Pk	35.7	.4	-95.2	-19.16	-49.18	-25	-24.18	H
7.605000	28.82	Pk	35.7	.4	-95.2	-19.16	-49.44	-25	-24.44	V
10.140469	27.71	Pk	37.6	.6	-95.2	-16.95	-46.24	-25	-21.24	H
10.140469	27.9	Pk	37.6	.6	-95.2	-16.95	-46.05	-25	-21.05	V
High Channel, 2550MHz										
5.100000	31.15	Pk	34.2	.8	-95.2	-23.27	-52.32	-25	-27.32	H
5.100000	30.92	Pk	34.2	.8	-95.2	-23.27	-52.55	-25	-27.55	V
7.650469	29.11	Pk	35.8	.3	-95.2	-18.87	-48.86	-25	-23.86	H
7.650938	30.46	Pk	35.8	.3	-95.2	-18.88	-47.52	-25	-22.52	V
10.200000	26.85	Pk	37.6	.8	-95.2	-16.90	-46.85	-25	-21.85	H
10.200469	27.97	Pk	37.6	.8	-95.2	-16.90	-45.73	-25	-20.73	V

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 #:	4790592295
Date:	07/1/2023
Test Engineer:	32981
Configuration:	EUT only
Mode	LTE12 QPSK 10MHz
Chamber #:	04-RDE-Q

Frequency (GHz)	Meter Reading (dBuV)	Det	84796 ACF (dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 704MHz									
1.396900	56.37	Pk	28.6	-95.2	-47.1	-57.33	-13	-44.33	H
1.396450	56.18	Pk	28.6	-95.2	-47.07	-57.49	-13	-44.49	V
2.097100	55.16	Pk	31.1	-95.2	-47.3	-56.24	-13	-43.24	H
2.096200	54.7	Pk	31.1	-95.2	-47.23	-56.63	-13	-43.63	V
2.798650	55.74	Pk	32.3	-95.2	-47.19	-54.35	-13	-41.35	H
2.798200	54.46	Pk	32.3	-95.2	-47.21	-55.65	-13	-42.65	V
Mid Channel, 707.5MHz									
1.405450	57.44	Pk	28.5	-95.2	-47.05	-56.31	-13	-43.31	H
1.406350	56.93	Pk	28.5	-95.2	-47.04	-56.81	-13	-43.81	V
2.109250	57.41	Pk	31.1	-95.2	-47.33	-54.02	-13	-41.02	H
2.107900	55.45	Pk	31.1	-95.2	-47.38	-56.03	-13	-43.03	V
2.812600	55.14	Pk	32.2	-95.2	-47.06	-54.92	-13	-41.92	H
2.810800	55.83	Pk	32.2	-95.2	-47.14	-54.31	-13	-41.31	V
High Channel, 711MHz									
1.410850	55.24	Pk	28.5	-95.2	-47.07	-58.53	-13	-45.53	H
1.411300	55.34	Pk	28.5	-95.2	-47.06	-58.42	-13	-45.42	V
2.120050	56.8	Pk	31.2	-95.2	-47.16	-54.36	-13	-41.36	H
2.120500	57.12	Pk	31.2	-95.2	-47.19	-54.07	-13	-41.07	V
2.822950	55.85	Pk	32.2	-95.2	-46.85	-54.00	-13	-41.00	H
2.822500	55	Pk	32.2	-95.2	-46.84	-54.84	-13	-41.84	V

BPSK 5G NR n12 (15.0MHZ BANDWIDTH)

Project #:	4790592295
Date:	07/01/2023
Test Engineer:	32545
Configuration:	EUT only
Mode	N12 BPSK 15MHz
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	81886 ACF (dB) 3mH	HPF 1.2GHz T1737 1-18GHz	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 706.5MHz										
1.413644	36.84	Pk	28.4	.9	-95.2	-29.29	-58.35	-13	-45.35	H
1.413644	37.24	Pk	28.4	.9	-95.2	-29.29	-57.95	-13	-44.95	V
2.119111	35.5	Pk	31.5	.5	-95.2	-28.01	-55.71	-13	-42.71	H
2.119111	36.21	Pk	31.5	.5	-95.2	-28.01	-55.00	-13	-42.00	V
2.826534	34.65	Pk	32.4	.7	-95.2	-26.63	-54.08	-13	-41.08	H
2.826534	34.91	Pk	32.4	.7	-95.2	-26.63	-53.82	-13	-40.82	V
Mid Channel, 707.5MHz										
1.415600	37.41	Pk	28.3	.9	-95.2	-29.28	-57.87	-13	-44.87	H
1.415111	36.28	Pk	28.3	.9	-95.2	-29.27	-58.99	-13	-45.99	V
2.122534	38.32	Pk	31.5	.5	-95.2	-28.12	-53.00	-13	-40.00	H
2.122534	36.83	Pk	31.5	.5	-95.2	-28.12	-54.49	-13	-41.49	V
2.830445	34.39	Pk	32.4	.7	-95.2	-26.78	-54.49	-13	-41.49	H
2.830445	35.15	Pk	32.4	.7	-95.2	-26.78	-53.73	-13	-40.73	V
High Channel, 708.5MHz										
1.417556	36.06	Pk	28.3	.9	-95.2	-29.20	-59.14	-13	-46.14	H
1.417556	36.17	Pk	28.3	.9	-95.2	-29.20	-59.03	-13	-46.03	V
2.125467	35.26	Pk	31.5	.5	-95.2	-28.03	-55.97	-13	-42.97	H
2.125467	35.28	Pk	31.5	.5	-95.2	-28.03	-55.95	-13	-42.95	V
2.834356	34.34	Pk	32.4	.7	-95.2	-26.72	-54.48	-13	-41.48	H
2.834356	34.33	Pk	32.4	.7	-95.2	-26.72	-54.49	-13	-41.49	V

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 #:	4790592295
Date:	07/6/2023
Test Engineer:	32186
Configuration:	EUT only
Mode	LTE13 QPSK 10MHz
Chamber #:	04-RDE-Q

Frequency (GHz)	Meter Reading (dBuV)	Det	84796 ACF (dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Mid Channel, 782MHz									
1.571500	54.56	Pk	27.8	-95.2	-47.44	-60.28	-40	-20.28	H
1.571500	55.81	Pk	27.8	-95.2	-47.44	-59.03	-40	-19.03	V
2.331550	54.81	Pk	31.5	-95.2	-48.04	-56.93	-13	-43.93	H
2.331550	55.44	Pk	31.5	-95.2	-48.04	-56.30	-13	-43.30	V
3.108250	53.6	Pk	32.9	-95.2	-46.69	-55.39	-13	-42.39	H
3.108250	54.67	Pk	32.9	-95.2	-46.69	-54.32	-13	-41.32	V

* 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 #:	4790592295
Date:	07/2/2023
Test Engineer:	32981
Configuration:	EUT only
Mode	LTE14 QPSK 10MHz
Chamber #:	04-RDE-Q

Frequency (GHz)	Meter Reading (dBuV)	Det	84796 ACF (dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Mid Channel, 793MHz									
1.576900	55.76	Pk	27.8	-95.2	-47.48	-59.12	-40	-19.12	H
1.575550	55.46	Pk	27.8	-95.2	-47.42	-59.36	-40	-19.36	V
2.365300	56.36	Pk	31.6	-95.2	-47.72	-54.96	-13	-41.96	H
2.365750	56.78	Pk	31.6	-95.2	-47.73	-54.55	-13	-41.55	V
3.151000	53.38	Pk	32.9	-95.2	-46.22	-55.14	-13	-42.14	H
3.152800	54.53	Pk	32.9	-95.2	-46.30	-54.07	-13	-41.07	V

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

BPSK 5G NR n14 (10.0MHZ BANDWIDTH)

Project #:	4790592295
Date:	06/30/2023
Test Engineer:	32545
Configuration:	EUT only
Mode	N14 BPSK 10MHz
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	81886 ACF (dB) 3mH	HPF 1.2GHz T1737 1-18GHz	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Mid Channel, 793MHz										
1.586711	35.97	Pk	28.3	.8	-95.2	-29.00	-59.13	-40	-19.13	H
1.586711	37.23	Pk	28.3	.8	-95.2	-29.00	-57.87	-40	-17.87	V
2.379689	37.13	Pk	32.1	.5	-95.2	-27.47	-52.94	-13	-39.94	H
2.379200	35.13	Pk	32.1	.5	-95.2	-27.48	-54.95	-13	-41.95	V
3.172178	34.53	Pk	33	.5	-95.2	-26.48	-53.65	-13	-40.65	H
3.172667	34.25	Pk	33	.5	-95.2	-26.44	-53.89	-13	-40.89	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 #:	4790592295
Date:	07/5/2023
Test Engineer:	32545
Configuration:	EUT only
Mode	LTE17 QPSK 10MHz
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	81886 ACF (dB) 3mH	HPF 1.2GHz T1737 1-18GHz	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 709MHz										
1.418044	36.34	Pk	28.3	.9	-95.2	-29.19	-58.85	-13	-45.85	H
1.418044	36.35	Pk	28.3	.9	-95.2	-29.19	-58.84	-13	-45.84	V
2.127422	35.91	Pk	31.5	.5	-95.2	-28.12	-55.41	-13	-42.41	H
2.127422	37.45	Pk	31.5	.5	-95.2	-28.12	-53.87	-13	-40.87	V
2.835823	34.69	Pk	32.4	.7	-95.2	-26.83	-54.24	-13	-41.24	H
2.835823	34.7	Pk	32.4	.7	-95.2	-26.83	-54.23	-13	-41.23	V
Mid Channel, 710MHz										
1.420489	36.39	Pk	28.3	.9	-95.2	-29.1	-58.71	-13	-45.71	H
1.420489	36.33	Pk	28.3	.9	-95.2	-29.1	-58.77	-13	-45.77	V
2.129867	35.48	Pk	31.5	.5	-95.2	-28.14	-55.86	-13	-42.86	H
2.129867	35.33	Pk	31.5	.5	-95.2	-28.14	-56.01	-13	-43.01	V
2.840223	33.23	Pk	32.4	.7	-95.2	-26.68	-55.55	-13	-42.55	H
2.840223	34.41	Pk	32.4	.7	-95.2	-26.68	-54.37	-13	-41.37	V
High Channel, 711MHz										
1.422445	37.08	Pk	28.3	.9	-95.2	-29.16	-58.08	-13	-45.08	H
1.422445	36.16	Pk	28.3	.9	-95.2	-29.16	-59.00	-13	-46.00	V
2.132800	35.06	Pk	31.5	.5	-95.2	-28.07	-56.21	-13	-43.21	H
2.133289	35.2	Pk	31.5	.5	-95.2	-28.06	-56.06	-13	-43.06	V
2.843889	33.86	Pk	32.4	.7	-95.2	-26.82	-55.06	-13	-42.06	H
2.844134	34.15	Pk	32.4	.7	-95.2	-26.81	-54.76	-13	-41.76	V

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 #:	4790592295
Date:	04/10/2023
Test Engineer:	32145
Configuration:	EUT only
Mode	LTE 25 QPSK 20MHz
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	Horn Antenna ACF(dB)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 1860MHz									
3.731719	36.8	Pk	33	-95.2	-24.74	-50.14	-13	-37.14	H
3.730781	36.44	Pk	33	-95.2	-24.76	-50.52	-13	-37.52	V
5.602969	34.24	Pk	34.7	-95.2	-20.79	-47.05	-13	-34.05	H
5.603438	34.92	Pk	34.7	-95.2	-20.78	-46.36	-13	-33.36	V
7.434375	33.84	Pk	35.4	-95.2	-18.81	-44.77	-13	-31.77	H
7.422656	33.83	Pk	35.4	-95.2	-18.72	-44.69	-13	-31.69	V
Mid Channel, 1882.5MHz									
3.775078	36.73	Pk	33	-95.2	-24.91	-50.38	-13	-37.38	H
3.775313	36.49	Pk	33	-95.2	-24.91	-50.62	-13	-37.62	V
5.62875	34.13	Pk	34.7	-95.2	-20.54	-46.91	-13	-33.91	H
5.62125	34.14	Pk	34.6	-95.2	-20.58	-47.04	-13	-34.04	V
7.528594	33.2	Pk	35.5	-95.2	-18.49	-44.99	-13	-31.99	H
7.526719	32.09	Pk	35.5	-95.2	-18.54	-46.15	-13	-33.15	V
High Channel, 1905MHz									
3.803438	37.8	Pk	33	-95.2	-25.03	-49.43	-13	-36.43	H
3.801094	36.33	Pk	33.1	-95.2	-25.08	-50.85	-13	-37.85	V
5.717813	35.56	Pk	34.7	-95.2	-21.6	-46.54	-13	-33.54	H
5.726719	34.33	Pk	34.7	-95.2	-21.69	-47.86	-13	-34.86	V
7.599844	34.49	Pk	35.5	-95.2	-17.72	-42.93	-13	-29.93	H
7.596094	32.74	Pk	35.5	-95.2	-17.76	-44.72	-13	-31.72	V

BPSK 5G NR n25 (40.0MHZ BANDWIDTH)

Project #:	4790592295
Date:	04/28/2023
Test Engineer:	12491
Configuration:	EUT only
Mode	N25 BPSK 40MHz
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	84796 ACF (dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 1870MHz									
4.292500	56.77	Pk	33.7	-95.2	-46.36	-51.09	-13	-38.09	H
4.292500	53.3	Pk	33.7	-95.2	-46.36	-54.56	-13	-41.56	V
8.154500	51.41	Pk	35.8	-95.2	-41.11	-49.10	-13	-36.10	H
8.154500	54.99	Pk	35.8	-95.2	-41.11	-45.52	-13	-32.52	V
14.416000	56.11	Pk	39.4	-95.2	-42.88	-42.57	-13	-29.57	H
14.416000	53.52	Pk	39.4	-95.2	-42.88	-45.16	-13	-32.16	V
Mid Channel, 1882.5MHz									
3.767000	52.99	Pk	33.4	-95.2	-46.91	-55.72	-13	-42.72	H
3.767000	54.17	Pk	33.4	-95.2	-46.91	-54.54	-13	-41.54	V
5.650000	53.68	Pk	34.8	-95.2	-46.73	-53.45	-13	-40.45	H
5.650000	53.45	Pk	34.8	-95.2	-46.73	-53.68	-13	-40.68	V
7.532500	52.89	Pk	35.8	-95.2	-45.69	-52.20	-13	-39.20	H
7.532500	51.79	Pk	35.8	-95.2	-45.69	-53.30	-13	-40.30	V
High Channel, 1895MHz									
3.791000	52.98	Pk	33.5	-95.2	-46.65	-55.37	-13	-42.37	H
3.791000	53.48	Pk	33.5	-95.2	-46.65	-54.87	-13	-41.87	V
5.685500	54.99	Pk	34.8	-95.2	-46.42	-51.83	-13	-38.83	H
5.685500	53.8	Pk	34.8	-95.2	-46.42	-53.02	-13	-40.02	V
7.581000	52.77	Pk	35.8	-95.2	-45.80	-52.43	-13	-39.43	H
7.581000	53.04	Pk	35.8	-95.2	-45.80	-52.16	-13	-39.16	V

10.2.7. LTE BAND 26 AND 5G NR n26 (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 #:	4790592295
Date:	07/2/2023
Test Engineer:	32981
Configuration:	EUT only
Mode	LTE 26 QPSK 10MHz
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	84796 ACF (dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Mid Channel, 819MHz									
1.628650	56.39	Pk	28.4	-95.2	-47.64	-58.05	-13	-45.05	H
1.627300	57.27	Pk	28.3	-95.2	-47.66	-57.29	-13	-44.29	V
2.441800	54.64	Pk	31.9	-95.2	-47.37	-56.03	-13	-43.03	H
2.441350	54.31	Pk	31.9	-95.2	-47.35	-56.34	-13	-43.34	V
3.258550	54.5	Pk	32.9	-95.2	-46.15	-53.95	-13	-40.95	H
3.259000	54.58	Pk	32.9	-95.2	-46.15	-53.87	-13	-40.87	V

BPSK 5G NR n26 (10.0MHZ BANDWIDTH)

Project #:	4790592295
Date:	07/1/2023
Test Engineer:	32545
Configuration:	EUT only
Mode	N26 BPSK 10MHz
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	81886 ACF (dB) 3mH	HPF 1.2GHz T1737 1-18GHz	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Mid Channel, 819MHz										
1.638045	36.83	Pk	28.8	.7	-95.2	-28.82	-57.69	-13	-44.69	H
1.638045	36.21	Pk	28.8	.7	-95.2	-28.82	-58.31	-13	-45.31	V
2.457423	38.07	Pk	32.5	.5	-95.2	-27.67	-51.80	-13	-38.80	H
2.457423	37.05	Pk	32.5	.5	-95.2	-27.67	-52.82	-13	-39.82	V
3.276312	35.38	Pk	33	.8	-95.2	-25.93	-51.95	-13	-38.95	H
3.276312	35.17	Pk	33	.8	-95.2	-25.93	-52.16	-13	-39.16	V

10.2.8. LTE BAND 26 AND 5G NR n26 (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 #:	4790592295
Date:	07/1/2023
Test Engineer:	32981
Configuration:	EUT only
Mode	LTE 26 QPSK 10MHz
Chamber #:	04-RDE-Q

Frequency (GHz)	Meter Reading (dBuV)	Det	84796 ACF (dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 831.5MHz									
1.653400	56.05	Pk	28.8	-95.2	-47.73	-58.08	-13	-45.08	H
1.652950	55.79	Pk	28.8	-95.2	-47.69	-58.30	-13	-45.30	V
2.479150	55.74	Pk	32.1	-95.2	-47.79	-55.15	-13	-42.15	H
2.477800	56.13	Pk	32.1	-95.2	-47.78	-54.75	-13	-41.75	V
3.308050	53.6	Pk	32.9	-95.2	-46.24	-54.94	-13	-41.94	H
3.306250	53.5	Pk	32.9	-95.2	-46.09	-54.89	-13	-41.89	V
Mid Channel, 836.5MHz									
1.663750	56.45	Pk	29	-95.2	-47.84	-57.59	-13	-44.59	H
1.663300	56.15	Pk	28.9	-95.2	-47.84	-57.99	-13	-44.99	V
2.489500	69.32	Pk	32.2	-95.2	-47.78	-41.46	-13	-28.46	H
2.489950	64.12	Pk	32.2	-95.2	-47.77	-46.65	-13	-33.65	V
3.326050	53.46	Pk	32.8	-95.2	-46.32	-55.26	-13	-42.26	H
3.327400	53.05	Pk	32.8	-95.2	-46.25	-55.60	-13	-42.60	V
High Channel, 841.5MHz									
1.674550	55.64	Pk	29.2	-95.2	-47.73	-58.09	-13	-45.09	H
1.674100	55.45	Pk	29.1	-95.2	-47.75	-58.40	-13	-45.40	V
2.504350	61.61	Pk	32.2	-95.2	-47.75	-49.14	-13	-36.14	H
2.504350	63.41	Pk	32.2	-95.2	-47.75	-47.34	-13	-34.34	V
3.346300	53.78	Pk	32.8	-95.2	-46.7	-55.32	-13	-42.32	H
3.345850	55.45	Pk	32.8	-95.2	-46.66	-53.61	-13	-40.61	V

BPSK 5G NR n26 (20.0MHZ BANDWIDTH)

Project #:	4790592295
Date:	07/1/2023
Test Engineer:	32545
Configuration:	EUT only
Mode	N26 BPSK 20MHz
Chamber #:	04-RDE-O

Frequency (GHz)	Meter Reading (dBuV)	Det	Horn Antenna ACF(dB)	HPF 1.2GHz T1737 1-18GHz	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 834.0MHz										
1.648800	37.05	Pk	28.5	.7	-95.2	-29.05	-58.00	-13	-45.00	H
1.651245	37.07	Pk	28.4	.8	-95.2	-28.95	-57.88	-13	-44.88	V
2.524889	36.2	Pk	32.2	.8	-95.2	-27.39	-53.39	-13	-40.39	H
2.517556	35.99	Pk	32.2	.8	-95.2	-27.44	-53.65	-13	-40.65	V
3.332045	35.23	Pk	32.6	.5	-95.2	-26.28	-53.15	-13	-40.15	H
3.336445	35.78	Pk	32.5	.5	-95.2	-26.24	-52.66	-13	-39.66	V
Mid Channel, 836.5MHz										
1.698667	37.97	Pk	28.9	.6	-95.2	-28.83	-56.56	-13	-43.56	H
1.710889	37.45	Pk	29	.6	-95.2	-28.62	-56.77	-13	-43.77	V
2.539067	36.41	Pk	32.2	.7	-95.2	-27.4	-53.29	-13	-40.29	H
2.548845	37.31	Pk	32.4	.6	-95.2	-27.23	-52.12	-13	-39.12	V
3.461112	35.32	Pk	32.5	.5	-95.2	-25.7	-52.58	-13	-39.58	H
3.457689	34.91	Pk	32.5	.5	-95.2	-25.67	-52.96	-13	-39.96	V
High Channel, 839MHz										
1.710889	38.32	Pk	29	.6	-95.2	-28.62	-55.90	-13	-42.90	H
1.714311	37.39	Pk	29.1	.6	-95.2	-28.74	-56.85	-13	-43.85	V
2.556178	35.32	Pk	32.4	.5	-95.2	-27.14	-54.12	-13	-41.12	H
2.549578	35.76	Pk	32.3	.6	-95.2	-27.21	-53.75	-13	-40.75	V
3.341823	35.29	Pk	32.5	.5	-95.2	-26.19	-53.10	-13	-40.10	H
3.340845	35.88	Pk	32.5	.5	-95.2	-26.21	-52.53	-13	-39.53	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 #:	4790592295
Date:	07/6/2023
Test Engineer:	32186
Configuration:	EUT only
Mode	LTE 30 QPSK 10MHz
Chamber #:	04-RDE-Q

Frequency (GHz)	Meter Reading (dBuV)	Det	200786 ACF (dB/m)	EIRP CF	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Mid Channel, 2310MHz									
4.610735	43.8	RMS	34.1	-95.2	-46.77	-64.07	-40	-24.07	H
4.610273	43.82	RMS	34.1	-95.2	-46.76	-64.04	-40	-24.04	V
6.915771	42.2	RMS	35.5	-95.2	-45.09	-62.59	-40	-22.59	H
6.915771	42.24	RMS	35.5	-95.2	-45.09	-62.55	-40	-22.55	V
9.22078	42.99	RMS	36.3	-95.2	-43.88	-59.79	-40	-19.79	H
9.22078	42.89	RMS	36.3	-95.2	-43.88	-59.89	-40	-19.89	V

BPSK 5G NR n30 (10.0MHZ BANDWIDTH)

Project #:	4790592295
Date:	07/5/2023
Test Engineer:	32545
Configuration:	EUT only
Mode	N30 BPSK 10MHz
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	81886 ACF (dB) 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Mid Channel, 2310MHz									
4.620469	22.25	RMS	34	-95.2	-23.86	-62.81	-40	-22.81	H
4.620000	22.26	RMS	34	-95.2	-23.85	-62.79	-40	-22.79	V
6.930469	19.73	RMS	35.7	-95.2	-19.57	-59.34	-40	-19.34	H
6.930000	19.31	RMS	35.7	-95.2	-19.59	-59.78	-40	-19.78	V
9.240938	18.2	RMS	36.1	-95.2	-17.47	-58.37	-40	-18.37	H
9.240938	17.98	RMS	36.1	-95.2	-17.47	-58.59	-40	-18.59	V

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 #:	4790592295
Date:	04/10/2023
Test Engineer:	32145
Configuration:	EUT only
Mode	LTE 41 QPSK 20MHz
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	Horn Antenna ACF(dB)	BRF 2495-2690MHz T1790 1-18GHz	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 2506MHz										
5.011875	35.36	Pk	34.1	.8	-95.2	-23.55	-48.49	-25	-23.49	H
5.000156	36.25	Pk	34.2	.8	-95.2	-23.71	-47.66	-25	-22.66	V
7.496250	33.72	Pk	35.5	.4	-95.2	-19.47	-45.05	-25	-20.05	H
7.486875	32.08	Pk	35.5	.3	-95.2	-19.44	-46.76	-25	-21.76	V
10.025625	32.11	Pk	36.9	.7	-95.2	-16.95	-42.44	-25	-17.44	H
9.993750	31.95	Pk	36.8	.5	-95.2	-16.54	-42.49	-25	-17.49	V
Mid Channel, 2593MHz										
5.213906	34.49	Pk	34.5	1	-95.2	-23.13	-48.34	-25	-23.34	H
5.227969	34.06	Pk	34.5	.9	-95.2	-23.08	-48.82	-25	-23.82	V
7.766250	33.37	Pk	35.6	.3	-95.2	-19.07	-45.00	-25	-20.00	H
7.744219	33.32	Pk	35.6	.3	-95.2	-19.14	-45.12	-25	-20.12	V
10.349063	32.62	Pk	37.2	.7	-95.2	-16.34	-41.02	-25	-16.02	H
10.316719	32.91	Pk	37.1	.6	-95.2	-16.36	-40.95	-25	-15.95	V
High Channel, 2680MHz										
5.361563	33.94	Pk	34.6	.5	-95.2	-23.17	-49.33	-25	-24.33	H
5.344219	33.54	Pk	34.6	.6	-95.2	-23.27	-49.73	-25	-24.73	V
8.066250	33.64	Pk	35.6	.4	-95.2	-18.83	-44.39	-25	-19.39	H
8.053594	33.72	Pk	35.7	.4	-95.2	-18.79	-44.17	-25	-19.17	V
10.723125	32.99	Pk	37.4	.6	-95.2	-16.18	-40.39	-25	-15.39	H
10.710469	32.33	Pk	37.5	.5	-95.2	-16.24	-41.11	-25	-16.11	V

BPSK LTE BAND n41 (100.0MHZ BANDWIDTH)

Project #:	4790592295
Date:	04/07/2023
Test Engineer:	26120
Configuration:	EUT only
Mode	N41 BPSK 100MHz
Chamber #:	02-RDE-E

Frequency (GHz)	Meter Reading (dBuV)	Det	206807 ACF (dB) 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 2546MHz									
5.092500	52.57	Pk	34.2	-95.2	-47.49	-55.92	-25	-30.92	H
5.092500	53.36	Pk	34.2	-95.2	-47.49	-55.13	-25	-30.13	V
7.639000	51.86	Pk	35.8	-95.2	-45.6	-53.14	-25	-28.14	H
7.639500	53.34	Pk	35.8	-95.2	-45.61	-51.67	-25	-26.67	V
10.184000	52.47	Pk	37.5	-95.2	-44.71	-49.94	-25	-24.94	H
10.184000	53.58	Pk	37.5	-95.2	-44.71	-48.83	-25	-23.83	V
Mid Channel, 2593MHz									
5.186000	52.06	Pk	34.4	-95.2	-47.26	-56.00	-25	-31.00	H
5.186000	52.56	Pk	34.4	-95.2	-47.26	-55.5	-25	-30.5	V
7.778000	54.51	Pk	35.9	-95.2	-45.38	-50.17	-25	-25.17	H
7.778000	51.32	Pk	35.9	-95.2	-45.38	-53.36	-25	-28.36	V
10.372000	53.08	Pk	37.6	-95.2	-44.22	-48.74	-25	-23.74	H
10.372500	54.07	Pk	37.6	-95.2	-44.22	-47.75	-25	-22.75	V
High Channel, 2640MHz									
5.277000	53.14	Pk	34.5	-95.2	-47.23	-54.79	-25	-29.79	H
5.276000	53.09	Pk	34.5	-95.2	-47.25	-54.86	-25	-29.86	V
7.920500	52.14	Pk	35.9	-95.2	-45.02	-52.18	-25	-27.18	H
7.920000	52.19	Pk	35.9	-95.2	-45.02	-52.13	-25	-27.13	V
10.560000	49.55	Pk	37.6	-95.2	-42.98	-51.03	-25	-26.03	H
10.560000	51	Pk	37.6	-95.2	-42.98	-49.58	-25	-24.58	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 #:	4790592295
Date:	05/10/2023
Test Engineer:	27700
Configuration:	EUT only
Mode	LTE 66 QPSK 20MHz
Chamber #:	04-RDE-Q

Frequency (GHz)	Meter Reading (dBuV)	Det	84796 ACF (dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 1720MHz									
3.419500	54.68	Pk	32.8	-95.2	-46.22	-53.94	-13	-40.94	H
3.438500	55.3	Pk	32.8	-95.2	-46.17	-53.27	-13	-40.27	V
5.128500	53.89	Pk	34.2	-95.2	-46.26	-53.37	-13	-40.37	H
5.186500	56.84	Pk	34.2	-95.2	-46.20	-50.36	-13	-37.36	V
6.882500	53.43	Pk	35.5	-95.2	-44.24	-50.51	-13	-37.51	H
6.872500	53.17	Pk	35.5	-95.2	-44.16	-50.69	-13	-37.69	V
Mid Channel, 1745MHz									
3.489500	52.78	Pk	32.8	-95.2	-46.06	-55.68	-13	-42.68	H
3.489000	52.64	Pk	32.8	-95.2	-46.04	-55.80	-13	-42.80	V
5.235000	53.78	Pk	34.2	-95.2	-47.86	-55.08	-13	-42.08	H
5.235000	53.85	Pk	34.2	-95.2	-47.86	-55.01	-13	-42.01	V
6.979000	52.16	Pk	35.5	-95.2	-45.05	-52.59	-13	-39.59	H
6.979500	52.71	Pk	35.5	-95.2	-45.03	-52.02	-13	-39.02	V
High Channel, 1770MHz									
3.514500	54.81	Pk	32.9	-95.2	-46.23	-53.72	-13	-40.72	H
3.527000	54.87	Pk	32.9	-95.2	-46.19	-53.62	-13	-40.62	V
5.308000	54.25	Pk	34.2	-95.2	-46.16	-52.91	-13	-39.91	H
5.283500	58.24	Pk	34.1	-95.2	-46.18	-49.04	-13	-36.04	V
7.090500	52.51	Pk	35.6	-95.2	-44.60	-51.69	-13	-38.69	H
7.092000	53.14	Pk	35.6	-95.2	-44.54	-51.00	-13	-38.00	V

BPSK 5G NR n66 (40.0MHZ BANDWIDTH)

Project #:	4790592295
Date:	05/02/2023
Test Engineer:	27700
Configuration:	EUT only
Mode	N66 BPSK 40MHz
Chamber #:	04-RDE-Q

Frequency (GHz)	Meter Reading (dBuV)	Det	84796 ACF (dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 1730MHz									
3.446000	54.9	Pk	32.9	-95.2	-46.05	-53.45	-13	-40.45	H
3.457000	54.24	Pk	32.9	-95.2	-45.83	-53.89	-13	-40.89	V
5.173000	54.32	Pk	34.2	-95.2	-46.23	-52.91	-13	-39.91	H
5.170500	54.34	Pk	34.2	-95.2	-46.21	-52.87	-13	-39.87	V
6.896000	52.82	Pk	35.5	-95.2	-44.39	-51.27	-13	-38.27	H
6.894000	52.96	Pk	35.5	-95.2	-44.34	-51.08	-13	-38.08	V
Mid Channel, 1745MHz									
3.505000	55.25	Pk	32.9	-95.2	-46.16	-53.21	-13	-40.21	H
3.484500	54.34	Pk	32.9	-95.2	-46.22	-54.18	-13	-41.18	V
5.222000	56.55	Pk	34.1	-95.2	-46.09	-50.64	-13	-37.64	H
5.221500	55.49	Pk	34.1	-95.2	-46.11	-51.72	-13	-38.72	V
6.860500	52.65	Pk	35.5	-95.2	-44.02	-51.07	-13	-38.07	H
6.971500	53.41	Pk	35.5	-95.2	-44.79	-51.08	-13	-38.08	V
High Channel, 1760MHz									
3.499500	55.13	Pk	33	-95.2	-46.52	-53.59	-13	-40.59	H
3.485500	55.2	Pk	33	-95.2	-46.74	-53.74	-13	-40.74	V
5.245500	55.77	Pk	34.5	-95.2	-47.19	-52.12	-13	-39.12	H
5.222500	54.77	Pk	34.5	-95.2	-47.13	-53.06	-13	-40.06	V
6.990000	55.08	Pk	35.8	-95.2	-45.93	-50.25	-13	-37.25	H
7.000000	53.95	Pk	35.8	-95.2	-45.76	-51.21	-13	-38.21	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 #:	4790592295
Date:	05/01/2023
Test Engineer:	27700
Configuration:	EUT only
Mode	N70 BPSK 15MHz
Chamber #:	04-RDE-Q

Frequency (GHz)	Meter Reading (dBuV)	Det	84796 ACF (dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Mid Channel, 1702.5MHz									
3.401500	55.54	Pk	32.8	-95.2	-46.20	-53.06	-13	-40.06	H
3.398500	55.51	Pk	32.8	-95.2	-46.30	-53.19	-13	-40.19	V
5.086500	53.99	Pk	34.3	-95.2	-46.21	-53.12	-13	-40.12	H
5.111000	54.46	Pk	34.2	-95.2	-46.23	-52.77	-13	-39.77	V
6.802500	53.3	Pk	35.5	-95.2	-44.57	-50.97	-13	-37.97	H
6.792500	53.62	Pk	35.5	-95.2	-44.67	-50.75	-13	-37.75	V

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 #:	4790592295
Date:	07/1/2023
Test Engineer:	32545
Configuration:	EUT only
Mode	LTE 71 QPSK 20MHz
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	81886 ACF (dB) 3mH	HPF 1.2GHz T1737 1-18GHz	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 673MHz										
1.346667	37.77	Pk	29	1.1	-95.2	-29.56	-56.89	-13	-43.89	H
1.346667	37.51	Pk	29	1.1	-95.2	-29.56	-57.15	-13	-44.15	V
2.019867	36.11	Pk	31.5	.5	-95.2	-28.39	-55.48	-13	-42.48	H
2.019867	34.7	Pk	31.5	.5	-95.2	-28.39	-56.89	-13	-43.89	V
2.692578	36.53	Pk	32.3	.5	-95.2	-27.25	-53.12	-13	-40.12	H
2.692578	36.96	Pk	32.3	.5	-95.2	-27.25	-52.69	-13	-39.69	V
Mid Channel, 680.5MHz										
1.376978	36.65	Pk	28.7	1	-95.2	-29.39	-58.24	-13	-45.24	H
1.376000	36.76	Pk	28.7	1	-95.2	-29.39	-58.13	-13	-45.13	V
2.063867	36.19	Pk	31.6	.5	-95.2	-28.3	-55.21	-13	-42.21	H
2.063867	38.04	Pk	31.6	.5	-95.2	-28.3	-53.36	-13	-40.36	V
2.752223	37.08	Pk	32.3	.5	-95.2	-26.85	-52.17	-13	-39.17	H
2.752223	36.7	Pk	32.3	.5	-95.2	-26.85	-52.55	-13	-39.55	V
High Channel, 688MHz										
1.376489	37.31	Pk	28.7	1	-95.2	-29.39	-57.58	-13	-44.58	H
1.376489	36.66	Pk	28.7	1	-95.2	-29.39	-58.23	-13	-45.23	V
2.064356	37.15	Pk	31.6	.5	-95.2	-28.29	-54.24	-13	-41.24	H
2.064356	35.86	Pk	31.6	.5	-95.2	-28.29	-55.53	-13	-42.53	V
2.752223	37.12	Pk	32.3	.5	-95.2	-26.85	-52.13	-13	-39.13	H
2.752223	36.6	Pk	32.3	.5	-95.2	-26.85	-52.65	-13	-39.65	V

BPSK 5G NR n71 (20.0MHZ BANDWIDTH)

Project #:	4790592295
Date:	07/1/2023
Test Engineer:	32545
Configuration:	EUT only
Mode	N71 BPSK 20MHz
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	81886 ACF (dB) 3mH	HPF 1.2GHz T1737 1-18GHz	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 673MHz										
1.346667	37.77	Pk	29	1.1	-95.2	-29.56	-56.89	-13	-43.89	H
1.346667	37.51	Pk	29	1.1	-95.2	-29.56	-57.15	-13	-44.15	V
2.019867	36.11	Pk	31.5	.5	-95.2	-28.39	-55.48	-13	-42.48	H
2.019867	34.7	Pk	31.5	.5	-95.2	-28.39	-56.89	-13	-43.89	V
2.692578	36.53	Pk	32.3	.5	-95.2	-27.25	-53.12	-13	-40.12	H
2.692578	36.96	Pk	32.3	.5	-95.2	-27.25	-52.69	-13	-39.69	V
Mid Channel, 680.5MHz										
1.376978	36.65	Pk	28.7	1	-95.2	-29.39	-58.24	-13	-45.24	H
1.376000	36.76	Pk	28.7	1	-95.2	-29.39	-58.13	-13	-45.13	V
2.063867	36.19	Pk	31.6	.5	-95.2	-28.3	-55.21	-13	-42.21	H
2.063867	38.04	Pk	31.6	.5	-95.2	-28.3	-53.36	-13	-40.36	V
2.752223	37.08	Pk	32.3	.5	-95.2	-26.85	-52.17	-13	-39.17	H
2.752223	36.7	Pk	32.3	.5	-95.2	-26.85	-52.55	-13	-39.55	V
High Channel, 688MHz										
1.376489	37.31	Pk	28.7	1	-95.2	-29.39	-57.58	-13	-44.58	H
1.376489	36.66	Pk	28.7	1	-95.2	-29.39	-58.23	-13	-45.23	V
2.064356	37.15	Pk	31.6	.5	-95.2	-28.29	-54.24	-13	-41.24	H
2.064356	35.86	Pk	31.6	.5	-95.2	-28.29	-55.53	-13	-42.53	V
2.752223	37.12	Pk	32.3	.5	-95.2	-26.85	-52.13	-13	-39.13	H
2.752223	36.6	Pk	32.3	.5	-95.2	-26.85	-52.65	-13	-39.65	V

10.3. FIELD STRENGTH OF SPURIOUS RADIATION, ANT3

TEST PROCEDURE

KDB 971168 D01 v03r01/D02 v02r02

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

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 #:	4790592295
Date:	05/15/2023
Test Engineer:	27700
Configuration:	EUT only
Mode	LTE Band 7 QPSK 20MHz
Chamber #:	04-RDE-Q

Frequency (GHz)	Meter Reading (dBuV)	Det	84796 ACF (dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 2510MHz									
5.018000	54.37	Pk	34.3	-95.2	-46.61	-53.14	-25	-28.14	H
5.045500	54.28	Pk	34.3	-95.2	-46.59	-53.21	-25	-28.21	V
7.503500	53.19	Pk	35.5	-95.2	-44.87	-51.38	-25	-26.38	H
7.522500	53.34	Pk	35.5	-95.2	-44.56	-50.92	-25	-25.92	V
10.032000	54.51	Pk	37.1	-95.2	-44.23	-47.82	-25	-22.82	H
10.075000	55.74	Pk	37.1	-95.2	-44.22	-46.58	-25	-21.58	V
Mid Channel, 2535MHz									
5.046500	54.88	Pk	34.3	-95.2	-46.64	-52.66	-25	-27.66	H
5.040500	54.01	Pk	34.3	-95.2	-46.58	-53.47	-25	-28.47	V
7.613500	52.85	Pk	35.5	-95.2	-44.74	-51.59	-25	-26.59	H
7.585500	53.39	Pk	35.5	-95.2	-44.43	-50.74	-25	-25.74	V
10.132000	54.20	Pk	37.2	-95.2	-44.23	-48.03	-25	-23.03	H
10.160500	55.57	Pk	37.2	-95.2	-44.3	-46.73	-25	-21.73	V
High Channel, 2560MHz									
5.018000	54.37	Pk	34.3	-95.2	-46.61	-53.14	-25	-28.14	H
5.0455000	54.28	Pk	34.3	-95.2	-46.59	-53.21	-25	-28.21	V
7.503500	53.19	Pk	35.5	-95.2	-44.87	-51.38	-25	-26.38	H
7.522500	53.34	Pk	35.5	-95.2	-44.56	-50.92	-25	-25.92	V
10.032000	54.51	Pk	37.1	-95.2	-44.23	-47.82	-25	-22.82	H
10.075000	55.74	Pk	37.1	-95.2	-44.22	-46.58	-25	-21.58	V

BPSK 5G NR n7 (40.0MHZ BANDWIDTH)

Project #:	4790592295
Date:	05/03/2023
Test Engineer:	19226
Configuration:	EUT only
Mode	n7 BPSK 40MHz
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	80402 ACF(dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 2520MHz									
5.040500	53.71	Pk	34.4	-95.2	-47.74	-54.83	-25	-29.83	H
5.040500	54.92	Pk	34.4	-95.2	-47.74	-53.62	-25	-28.62	V
7.560500	52.32	Pk	35.8	-95.2	-45.73	-52.81	-25	-27.81	H
7.560500	53.50	Pk	35.8	-95.2	-45.73	-51.63	-25	-26.63	V
10.080500	53.77	Pk	37.5	-95.2	-45.48	-49.41	-25	-24.41	H
10.080500	52.98	Pk	37.5	-95.2	-45.48	-50.20	-25	-25.20	V
Mid Channel, 2535MHz									
5.070500	55.02	Pk	34.5	-95.2	-47.91	-53.59	-25	-28.59	H
5.070500	55.95	Pk	34.5	-95.2	-47.91	-52.66	-25	-27.66	V
7.606000	52.69	Pk	35.7	-95.2	-45.6	-52.41	-25	-27.41	H
7.606000	53.19	Pk	35.7	-95.2	-45.6	-51.91	-25	-26.91	V
10.140500	53.42	Pk	37.5	-95.2	-45.48	-49.76	-25	-24.76	H
10.140500	52.52	Pk	37.5	-95.2	-45.48	-50.66	-25	-25.66	V
High Channel, 2550MHz									
5.100500	55.03	Pk	34.5	-95.2	-47.74	-53.41	-25	-28.41	H
5.100500	55.21	Pk	34.5	-95.2	-47.74	-53.23	-25	-28.23	V
7.650500	52.22	Pk	35.7	-95.2	-45.4	-52.68	-25	-27.68	H
7.650500	52.58	Pk	35.7	-95.2	-45.4	-52.32	-25	-27.32	V
10.201000	51.55	Pk	37.5	-95.2	-45.21	-51.36	-25	-26.36	H
10.201000	52.31	Pk	37.5	-95.2	-45.21	-50.60	-25	-25.60	V

10.3.2. 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 #:	4790592295
Date:	07/3/2023
Test Engineer:	33097
Configuration:	EUT only
Mode	LTE12 QPSK 10MHz
Chamber #:	04-RDE-Q

Frequency (GHz)	Meter Reading (dBuV)	Det	84796 ACF (dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 704MHz									
1.419560	56.64	Pk	28.4	-95.2	-47.10	-57.26	-13	-44.26	H
1.412960	55.99	Pk	28.5	-95.2	-47.23	-57.94	-13	-44.94	V
2.110800	57.21	Pk	31.1	-95.2	-48.07	-54.96	-13	-41.96	H
2.108600	56.88	Pk	31.1	-95.2	-47.95	-55.17	-13	-42.17	V
2.816340	56.03	Pk	32.2	-95.2	-47.27	-54.24	-13	-41.24	H
2.810840	56.14	Pk	32.2	-95.2	-47.11	-53.97	-13	-40.97	V
Mid Channel, 707.5MHz									
1.427040	56.69	Pk	28.3	-95.2	-47.09	-57.30	-13	-44.30	H
1.427040	57.47	Pk	28.3	-95.2	-47.09	-56.52	-13	-43.52	V
2.135440	57.53	Pk	31.2	-95.2	-48.18	-54.65	-13	-41.65	H
2.129280	57.58	Pk	31.2	-95.2	-48.05	-54.47	-13	-41.47	V
2.816560	55.88	Pk	32.2	-95.2	-47.26	-54.38	-13	-41.38	H
2.810840	55.73	Pk	32.2	-95.2	-47.11	-54.38	-13	-41.38	V
High Channel, 711MHz									
1.427920	56.91	Pk	28.3	-95.2	-47.08	-57.07	-13	-44.07	H
1.427920	57.8	Pk	28.3	-95.2	-47.08	-56.18	-13	-43.18	V
2.127080	57.67	Pk	31.2	-95.2	-48.16	-54.49	-13	-41.49	H
2.130600	56.42	Pk	31.2	-95.2	-48.00	-55.58	-13	-42.58	V
2.849560	55.71	Pk	32.1	-95.2	-47.10	-54.49	-13	-41.49	H
2.851320	55.12	Pk	32.1	-95.2	-47.12	-55.10	-13	-42.10	V

BPSK 5G NR n12 (15.0MHZ BANDWIDTH)

Project #:	4790592295
Date:	07/5/2023
Test Engineer:	32545
Configuration:	EUT only
Mode	N12 BPSK 15MHz
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	81886 ACF (dB) 3mH	HPF 1.2GHz T1737 1-18GHz	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 706.5MHz										
1.413644	35.91	Pk	28.4	.9	-95.2	-29.29	-59.28	-13	-46.28	H
1.414133	36.5	Pk	28.4	.9	-95.2	-29.3	-58.7	-13	-45.7	V
2.119111	34.62	Pk	31.5	.5	-95.2	-28.01	-56.59	-13	-43.59	H
2.119111	37.42	Pk	31.5	.5	-95.2	-28.01	-53.79	-13	-40.79	V
2.827023	33.09	Pk	32.4	.7	-95.2	-26.63	-55.64	-13	-42.64	H
2.826534	34.63	Pk	32.4	.7	-95.2	-26.63	-54.10	-13	-41.10	V
Mid Channel, 707.5MHz										
1.415111	36.56	Pk	28.3	.9	-95.2	-29.27	-58.71	-13	-45.71	H
1.415111	36.23	Pk	28.3	.9	-95.2	-29.27	-59.04	-13	-46.04	V
2.122534	35.84	Pk	31.5	.5	-95.2	-28.12	-55.48	-13	-42.48	H
2.122534	36.77	Pk	31.5	.5	-95.2	-28.12	-54.55	-13	-41.55	V
2.830445	33.73	Pk	32.4	.7	-95.2	-26.78	-55.15	-13	-42.15	H
2.829956	34.8	Pk	32.4	.7	-95.2	-26.81	-54.11	-13	-41.11	V
High Channel, 708.5MHz										
1.417067	36.54	Pk	28.3	.9	-95.2	-29.22	-58.68	-13	-45.68	H
1.417067	37.4	Pk	28.3	.9	-95.2	-29.22	-57.82	-13	-44.82	V
2.124978	36.54	Pk	31.5	.5	-95.2	-28.03	-54.69	-13	-41.69	H
2.124978	35.51	Pk	31.5	.5	-95.2	-28.03	-55.72	-13	-42.72	V
2.834356	34.14	Pk	32.4	.7	-95.2	-26.72	-54.68	-13	-41.68	H
2.833867	33.19	Pk	32.4	.7	-95.2	-26.68	-55.59	-13	-42.59	V

10.3.3. 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 #:	4790592295
Date:	07/5/2023
Test Engineer:	32186
Configuration:	EUT only
Mode	LTE13 QPSK 10MHz
Chamber #:	04-RDE-Q

Frequency (GHz)	Meter Reading (dBuV)	Det	84796 ACF (dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Mid Channel, 782MHz									
1.567450	53.58	Pk	27.7	-95.2	-47.37	-61.29	-40	-21.29	H
1.567450	55.48	Pk	27.7	-95.2	-47.37	-59.39	-40	-19.39	V
2.331550	56.07	Pk	31.5	-95.2	-48.04	-55.67	-13	-42.67	H
2.331550	54.68	Pk	31.5	-95.2	-48.04	-57.06	-13	-44.06	V
3.109150	54.06	Pk	32.9	-95.2	-46.61	-54.85	-13	-41.85	H
3.109150	53.48	Pk	32.9	-95.2	-46.61	-55.43	-13	-42.43	V

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

10.3.4. 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 #:	4790592295
Date:	07/7/2023
Test Engineer:	32981
Configuration:	EUT only
Mode	LTE14 QPSK 10MHz
Chamber #:	04-RDE-Q

Frequency (GHz)	Meter Reading (dBuV)	Det	84796 ACF (dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Mid Channel, 782MHz									
1.573750	55.31	Pk	27.8	-95.2	-47.44	-59.53	-40	-19.53	H
1.573750	55.96	Pk	27.8	-95.2	-47.44	-58.88	-40	-18.88	V
2.365300	56.52	Pk	31.6	-95.2	-47.72	-54.80	-13	-41.80	H
2.364850	56.7	Pk	31.6	-95.2	-47.72	-54.62	-13	-41.62	V
3.154600	53.91	Pk	32.9	-95.2	-46.23	-54.62	-13	-41.62	H
3.155050	53.2	Pk	33	-95.2	-46.2	-55.20	-13	-42.20	V

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

BPSK 5G NR n14 (10.0MHZ BANDWIDTH)

Project #:	4790592295
Date:	07/5/2023
Test Engineer:	32545
Configuration:	EUT only
Mode	N14 BPSK 10MHz
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	81886 ACF (dB) 3mH	HPF 1.2GHz T1737 1-18GHz	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Mid Channel, 793MHz										
1.586711	37.12	Pk	28.3	.8	-95.2	-29.00	-57.98	-40	-17.98	H
1.586222	38.27	Pk	28.3	.8	-95.2	-29.04	-56.87	-40	-16.87	V
2.379200	37.41	Pk	32.1	.5	-95.2	-27.48	-52.67	-13	-39.67	H
2.379200	35.49	Pk	32.1	.5	-95.2	-27.48	-54.59	-13	-41.59	V
3.172667	36.41	Pk	33	.5	-95.2	-26.44	-51.73	-13	-38.73	H
3.172667	35.69	Pk	33	.5	-95.2	-26.44	-52.45	-13	-39.45	V

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

10.3.5. 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 #:	4790592295
Date:	07/3/2023
Test Engineer:	33097
Configuration:	EUT only
Mode	LTE17 QPSK 10MHz
Chamber #:	04-RDE-Q

Frequency (GHz)	Meter Reading (dBuV)	Det	84796 ACF (dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 709MHz									
1.426600	56.42	Pk	28.3	-95.2	-47.07	-57.55	-13	-44.55	H
1.421760	56.38	Pk	28.4	-95.2	-47.03	-57.45	-13	-44.45	V
2.135440	57.13	Pk	31.2	-95.2	-48.18	-55.05	-13	-42.05	H
2.135880	57.11	Pk	31.2	-95.2	-48.17	-55.06	-13	-42.06	V
2.843840	56.12	Pk	32.1	-95.2	-47.15	-54.13	-13	-41.13	H
2.839440	54.64	Pk	32.1	-95.2	-47.27	-55.73	-13	-42.73	V
Mid Channel, 710MHz									
1.422640	56.71	Pk	28.4	-95.2	-47.05	-57.14	-13	-44.14	H
1.422640	56.33	Pk	28.4	-95.2	-47.05	-57.52	-13	-44.52	V
2.119600	58.41	Pk	31.2	-95.2	-48.16	-53.75	-13	-40.75	H
2.120920	57.13	Pk	31.2	-95.2	-48.13	-55.00	-13	-42.00	V
2.842080	55.88	Pk	32.1	-95.2	-47.12	-54.34	-13	-41.34	H
2.846480	55.82	Pk	32.1	-95.2	-47.24	-54.52	-13	-41.52	V
High Channel, 711MHz									
1.426600	57.44	Pk	28.3	-95.2	-47.07	-56.53	-13	-43.53	H
1.426600	56.97	Pk	28.3	-95.2	-47.07	-57.00	-13	-44.00	V
2.123560	57.09	Pk	31.2	-95.2	-48.06	-54.97	-13	-41.97	H
2.118280	57.11	Pk	31.2	-95.2	-48.15	-55.04	-13	-42.04	V
2.855280	54.91	Pk	32.1	-95.2	-47.22	-55.41	-13	-42.41	H
2.851760	54.99	Pk	32.1	-95.2	-47.15	-55.26	-13	-42.26	V

10.3.6. 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 #:	4790592295
Date:	05/05/2023
Test Engineer:	45258
Configuration:	EUT only
Mode	LTE 25 QPSK 20MHZ
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	Horn Antenna ACF(dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 1860MHz									
3.720469	33.88	Pk	33.1	-95.2	-24.96	-53.18	-13	-40.18	H
3.720469	32.64	Pk	33.1	-95.2	-24.96	-54.42	-13	-41.42	V
5.581406	33.95	Pk	34.7	-95.2	-20.99	-47.54	-13	-34.54	H
5.581406	30.62	Pk	34.7	-95.2	-20.99	-50.87	-13	-37.87	V
7.440000	28.63	Pk	35.4	-95.2	-18.89	-50.06	-13	-37.06	H
7.440000	30.51	Pk	35.4	-95.2	-18.89	-48.18	-13	-35.18	V
Mid Channel, 1882.5MHz									
3.765000	34.41	Pk	32.9	-95.2	-24.96	-52.85	-13	-39.85	H
3.765000	33.29	Pk	32.9	-95.2	-24.96	-53.97	-13	-40.97	V
5.647031	30.56	Pk	34.6	-95.2	-20.78	-50.82	-13	-37.82	H
5.647031	29.96	Pk	34.6	-95.2	-20.78	-51.42	-13	-38.42	V
7.530469	29.06	Pk	35.5	-95.2	-18.48	-49.12	-13	-36.12	H
7.530469	30.12	Pk	35.5	-95.2	-18.48	-48.06	-13	-35.06	V
High Channel, 1905MHz									
5.018000	54.37	Pk	34.3	-95.2	-46.61	-53.14	-13	-40.14	H
5.045500	54.28	Pk	34.3	-95.2	-46.59	-53.21	-13	-40.21	V
7.503500	53.19	Pk	35.5	-95.2	-44.87	-51.38	-13	-38.38	H
7.522500	53.34	Pk	35.5	-95.2	-44.56	-50.92	-13	-38.56	V
10.032000	54.51	Pk	37.1	-95.2	-44.23	-47.82	-13	-34.23	H
10.075000	55.74	Pk	37.1	-95.2	-44.22	-46.58	-13	-33.58	V

BPSK 5G NR n25 (40.0MHZ BANDWIDTH)

Project #:	4790592295
Date:	05/04/2023
Test Engineer:	12501
Configuration:	EUT only
Mode	N25 BPSK 40MHz
Chamber #:	05-RDE-D

Frequency (GHz)	Meter Reading (dBuV)	Det	80402 ACF(dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 1870MHz									
3.721000	56.08	Pk	33.4	-95.2	-47	-52.72	-13	-39.72	H
3.709500	54.7	Pk	33.3	-95.2	-46.9	-54.10	-13	-41.10	V
5.621000	55.44	Pk	34.8	-95.2	-46.66	-51.62	-13	-38.62	H
5.619000	55.16	Pk	34.8	-95.2	-46.87	-52.11	-13	-39.11	V
7.468500	55.13	Pk	35.8	-95.2	-45.83	-50.1	-13	-37.10	H
7.450500	55.04	Pk	35.8	-95.2	-45.95	-50.31	-13	-37.31	V
Mid Channel, 1882.5MHz									
3.771000	55.01	Pk	33.5	-95.2	-46.82	-53.51	-13	-40.51	H
3.765000	54.97	Pk	33.4	-95.2	-46.95	-53.78	-13	-40.78	V
5.658500	55.41	Pk	34.8	-95.2	-46.75	-51.74	-13	-38.74	H
5.654000	55.49	Pk	34.8	-95.2	-46.66	-51.57	-13	-38.57	V
7.524000	54.21	Pk	35.8	-95.2	-45.66	-50.85	-13	-37.85	H
7.499500	54.65	Pk	35.8	-95.2	-45.79	-50.54	-13	-37.54	V
High Channel, 1895MHz									
3.789000	54.94	Pk	33.5	-95.2	-46.60	-53.36	-13	-40.36	H
3.793000	55.08	Pk	33.5	-95.2	-46.66	-53.28	-13	-40.28	V
5.690500	54.87	Pk	34.8	-95.2	-46.43	-51.96	-13	-38.96	H
5.679500	55.49	Pk	34.8	-95.2	-46.35	-51.26	-13	-38.26	V
7.586500	54.49	Pk	35.7	-95.2	-45.77	-50.78	-13	-37.78	H
7.588500	55.01	Pk	35.7	-95.2	-45.85	-50.34	-13	-37.34	V

10.3.7. LTE BAND 26 AND 5G NR n26 (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 #:	4790592295
Date:	07/5/2023
Test Engineer:	32186
Configuration:	EUT only
Mode	LTE 26 QPSK 10MHz
Chamber #:	04-RDE-Q

Frequency (GHz)	Meter Reading (dBuV)	Det	84796 ACF (dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Mid Channel, 819MHz									
1.628200	53.99	Pk	28.4	-95.2	-47.66	-60.47	-13	-47.47	H
1.628200	54.57	Pk	28.4	-95.2	-47.66	-59.89	-13	-46.89	V
2.442250	53.15	Pk	31.9	-95.2	-47.40	-57.55	-13	-44.55	H
2.442250	52.75	Pk	31.9	-95.2	-47.40	-57.95	-13	-44.95	V
3.256300	53.4	Pk	32.9	-95.2	-46.3	-55.20	-13	-42.20	H
3.255850	53.67	Pk	32.9	-95.2	-46.33	-54.96	-13	-41.96	V

BPSK 5G NR n26 (10.0MHZ BANDWIDTH)

Project #:	4790592295
Date:	07/5/2023
Test Engineer:	32545
Configuration:	EUT only
Mode	N26 BPSK 10MHz
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	81886 ACF (dB) 3mH	HPF 1.2GHz T1737 1-18GHz	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Mid Channel, 819MHz										
1.638533	37.91	Pk	28.8	.7	-95.2	-28.83	-56.62	-13	-43.62	H
1.639022	36.85	Pk	28.8	.7	-95.2	-28.83	-57.68	-13	-44.68	V
2.457423	34.04	Pk	32.5	.5	-95.2	-27.67	-55.83	-13	-42.83	H
2.457423	34.45	Pk	32.5	.5	-95.2	-27.67	-55.42	-13	-42.42	V
3.276312	33.92	Pk	33	.8	-95.2	-25.93	-53.41	-13	-40.41	H
3.276312	33.32	Pk	33	.8	-95.2	-25.93	-54.01	-13	-41.01	V

10.3.8. LTE BAND 26 AND 5G NR n26 (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 $43 + 10 \log (P)$

QPSK LTE BAND 26 (10.0MHZ BANDWIDTH)

Project #:	4790592295
Date:	07/5/2023
Test Engineer:	32186
Configuration:	EUT only
Mode	LTE 26 QPSK 10MHz
Chamber #:	04-RDE-Q

Frequency (GHz)	Meter Reading (dBuV)	Det	84796 ACF (dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 831.5MHz									
1.648000	54.15	Pk	28.7	-95.2	-47.8	-60.15	-13	-47.15	H
1.648000	55.23	Pk	28.7	-95.2	-47.8	-59.07	-13	-46.07	V
2.471950	54.64	Pk	32.1	-95.2	-47.74	-56.20	-13	-43.20	H
2.471950	53.91	Pk	32.1	-95.2	-47.74	-56.93	-13	-43.93	V
3.296800	51.04	Pk	32.9	-95.2	-46.05	-57.31	-13	-44.31	H
3.296800	51.99	Pk	32.9	-95.2	-46.05	-56.36	-13	-43.36	V
Mid Channel, 836.5MHz									
1.658350	55.07	Pk	28.9	-95.2	-47.79	-59.02	-13	-46.02	H
1.658350	55.76	Pk	28.9	-95.2	-47.79	-58.33	-13	-45.33	V
2.487250	54.71	Pk	32.2	-95.2	-47.76	-56.05	-13	-43.05	H
2.487250	55.4	Pk	32.2	-95.2	-47.76	-55.36	-13	-42.36	V
3.316150	51.1	Pk	32.8	-95.2	-46.28	-57.58	-13	-44.58	H
3.316150	51.83	Pk	32.8	-95.2	-46.28	-56.85	-13	-43.85	V
High Channel, 841.5MHz									
1.668700	55.47	Pk	29	-95.2	-47.68	-58.41	-13	-45.41	H
1.669150	54.38	Pk	29.1	-95.2	-47.68	-59.40	-13	-46.40	V
2.502550	53.77	Pk	32.2	-95.2	-47.74	-56.97	-13	-43.97	H
2.502550	55.46	Pk	32.2	-95.2	-47.74	-55.28	-13	-42.28	V
3.335950	52.39	Pk	32.8	-95.2	-46.45	-56.46	-13	-43.46	H
3.335500	52.04	Pk	32.8	-95.2	-46.48	-56.84	-13	-43.84	V

BPSK 5G NR n26 (20.0MHZ BANDWIDTH)

Project #:	4790592295
Date:	07/5/2023
Test Engineer:	32545
Configuration:	EUT only
Mode	N26 BPSK 20MHz
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	81886 ACF (dB) 3mH	HPF 1.2GHz T1737 1-18GHz	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Azimuth (Degs)
Low Channel, 834.0MHz										
1.668356	35.24	Pk	29.1	.7	-95.2	-28.75	-58.91	-13	-45.91	H
1.668356	35.93	Pk	29.1	.7	-95.2	-28.75	-58.22	-13	-45.22	V
2.501911	36.9	Pk	32.5	.6	-95.2	-27.56	-52.76	-13	-39.76	H
2.501911	35.84	Pk	32.5	.6	-95.2	-27.56	-53.82	-13	-40.82	V
3.336934	33.98	Pk	32.8	.5	-95.2	-26.26	-54.18	-13	-41.18	H
3.336934	34.32	Pk	32.8	.5	-95.2	-26.26	-53.84	-13	-40.84	V
Mid Channel, 836.5MHz										
1.673245	35.9	Pk	29.1	.7	-95.2	-28.72	-58.22	-13	-45.22	H
1.673245	36.68	Pk	29.1	.7	-95.2	-28.72	-57.44	-13	-44.44	V
2.509734	34.97	Pk	32.5	.7	-95.2	-27.54	-54.57	-13	-41.57	H
2.509245	35.49	Pk	32.5	.7	-95.2	-27.55	-54.06	-13	-41.06	V
3.346712	36.63	Pk	32.8	.5	-95.2	-26.23	-51.50	-13	-38.50	H
3.346712	34.37	Pk	32.8	.5	-95.2	-26.23	-53.76	-13	-40.76	V
High Channel, 839.0Hz										
1.678133	36.34	Pk	29.2	.7	-95.2	-28.77	-57.73	-13	-44.73	H
1.678133	34.75	Pk	29.2	.7	-95.2	-28.77	-59.32	-13	-46.32	V
2.518045	35.55	Pk	32.5	.8	-95.2	-27.42	-53.77	-13	-40.77	H
2.518045	34.82	Pk	32.5	.8	-95.2	-27.42	-54.50	-13	-41.50	V
3.356489	34.89	Pk	32.8	.6	-95.2	-26.08	-52.99	-13	-39.99	H
3.356489	34.56	Pk	32.8	.6	-95.2	-26.08	-53.32	-13	-40.32	V

10.3.9. 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 #:	4790592295
Date:	07/5/2023
Test Engineer:	32186
Configuration:	EUT only
Mode	LTE 30 QPSK 10MHz
Chamber #:	04-RDE-Q

Frequency (GHz)	Meter Reading (dBuV)	Det	84796 ACF (dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Mid Channel, 2310MHz									
4.610763	44.01	RMS	34.1	-95.2	-46.77	-63.86	-40	-23.86	H
4.611253	44.38	RMS	34.1	-95.2	-46.77	-63.49	-40	-23.49	V
6.915281	42.39	RMS	35.5	-95.2	-45.10	-62.41	-40	-22.41	H
6.915281	42.38	RMS	35.5	-95.2	-45.10	-62.42	-40	-22.42	V
9.220780	43.25	RMS	36.3	-95.2	-43.88	-59.53	-40	-19.53	H
9.221270	43.1	RMS	36.3	-95.2	-43.89	-59.69	-40	-19.69	V

BPSK 5G NR n30 (10.0MHZ BANDWIDTH)

Project #:	4790592295
Date:	07/5/2023
Test Engineer:	32545
Configuration:	EUT only
Mode	N30 BPSK 10MHz
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	81886 ACF (dB) 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Mid Channel, 2310MHz									
4.620469	22.39	RMS	34	-95.2	-23.86	-62.67	-40	-22.67	H
4.620469	22.48	RMS	34	-95.2	-23.86	-62.58	-40	-22.58	V
6.930469	19.35	RMS	35.7	-95.2	-19.57	-59.72	-40	-19.72	H
6.930469	18.91	RMS	35.7	-95.2	-19.57	-60.16	-40	-20.16	V
9.240469	18.12	RMS	36.1	-95.2	-17.47	-58.45	-40	-18.45	H
9.240469	17.73	RMS	36.1	-95.2	-17.47	-58.84	-40	-18.84	V

10.3.10. 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 #:	4790592295
Date:	04/10/2023
Test Engineer:	32145
Configuration:	EUT only
Mode	LTE 41 QPSK 20MHz
Chamber #:	04-RDE-Q

Frequency (GHz)	Meter Reading (dBuV)	Det	Horn Antenna ACF(dB)	BRF 2495-2690MHz T1790 1-18GHz	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 2506MHz										
5.023125	34.98	Pk	34.2	.7	-95.2	-23.56	-48.88	-25	-23.88	H
5.032031	36.23	Pk	34.3	.7	-95.2	-23.47	-47.44	-25	-22.44	V
7.505156	33.85	Pk	35.5	.3	-95.2	-19.53	-45.08	-25	-20.08	H
7.529063	32.66	Pk	35.5	.3	-95.2	-19.38	-46.12	-25	-21.12	V
10.025156	33.75	Pk	36.9	.6	-95.2	-16.94	-40.89	-25	-15.89	H
10.031719	32.33	Pk	36.9	.7	-95.2	-17.01	-42.28	-25	-17.28	V
Mid Channel, 2593MHz										
5.194688	34.49	Pk	34.5	.8	-95.2	-23	-48.41	-25	-23.41	H
5.172656	34.61	Pk	34.4	.7	-95.2	-23.09	-48.58	-25	-23.58	V
7.791094	33.75	Pk	35.5	.4	-95.2	-18.95	-44.50	-25	-19.50	H
7.761094	33.02	Pk	35.6	.3	-95.2	-19.06	-45.34	-25	-20.34	V
10.355156	32.71	Pk	37.2	.8	-95.2	-16.34	-40.83	-25	-15.83	H
10.367344	32.81	Pk	37.2	.8	-95.2	-16.32	-40.71	-25	-15.71	V
High Channel, 2680MHz										
5.356875	34.58	Pk	34.6	.5	-95.2	-23.24	-48.76	-25	-23.76	H
5.344219	33.7	Pk	34.6	.6	-95.2	-23.27	-49.57	-25	-24.57	V
8.009063	33.35	Pk	35.6	.3	-95.2	-18.71	-44.66	-25	-19.66	H
7.988438	32.55	Pk	35.7	.3	-95.2	-18.98	-45.63	-25	-20.63	V
10.72125	32.59	Pk	37.5	.6	-95.2	-16.18	-40.69	-25	-15.69	H
10.697813	32.65	Pk	37.5	.5	-95.2	-16.3	-40.85	-25	-15.85	V

BPSK LTE BAND n41 (100.0MHZ BANDWIDTH)

Project #:	4790592295
Date:	05/09/2023
Test Engineer:	26541
Configuration:	EUT only
Mode	N41 BPSK 100MHz
Chamber #:	04-RDE-O

Frequency (MHz)	Meter Reading (dBuV)	Det	80404_ACF(dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 2546MHz									
3.506500	54.08	Pk	34.4	-95.2	-44.7	-51.42	-25	-26.42	H
4.757000	54.51	Pk	34.8	-95.2	-45.91	-51.80	-25	-26.80	V
7.488500	50.92	Pk	36	-95.2	-42.74	-51.02	-25	-26.02	H
7.488500	50.92	Pk	36	-95.2	-42.74	-51.02	-25	-26.02	V
11.659000	52.03	Pk	38.3	-95.2	-39.94	-44.81	-25	-19.81	H
10.703500	51.26	Pk	37.9	-95.2	-39.89	-45.93	-25	-20.93	V
Mid Channel, 2593MHz									
4.813500	53.09	Pk	34.9	-95.2	-45.32	-52.53	-25	-27.53	H
4.781000	53.45	Pk	34.9	-95.2	-45.31	-52.16	-25	-27.16	V
7.698500	50.36	Pk	35.9	-95.2	-42.26	-51.20	-25	-26.20	H
7.535000	52.83	Pk	35.9	-95.2	-42.73	-49.20	-25	-24.20	V
10.767000	50.14	Pk	37.9	-95.2	-40.22	-47.38	-25	-22.38	H
11.034000	49.46	Pk	38	-95.2	-39.53	-47.27	-25	-22.27	V
High Channel, 2640MHz									
4.758500	54.37	Pk	34.8	-95.2	-45.82	-51.85	-25	-26.85	H
4.728500	55.33	Pk	34.7	-95.2	-46.06	-51.23	-25	-26.23	V
7.508000	51.26	Pk	35.9	-95.2	-42.74	-50.78	-25	-25.78	H
7.540500	50.55	Pk	35.9	-95.2	-42.70	-51.45	-25	-26.45	V
10.650500	50.59	Pk	37.6	-95.2	-39.74	-46.75	-25	-21.75	H
10.706000	50.21	Pk	37.9	-95.2	-39.85	-46.94	-25	-21.94	V

10.3.11. 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 #:	4790592295
Date:	07/8/2023
Test Engineer:	32981
Configuration:	EUT only
Mode	LTE 66 QPSK 20MHz
Chamber #:	04-RDE-Q

Frequency (GHz)	Meter Reading (dBuV)	Det	84796 ACF (dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 1720MHz									
3.421500	54.21	Pk	32.8	-95.2	-46.32	-54.51	-13	-41.51	H
3.420500	53.4	Pk	32.8	-95.2	-46.27	-55.27	-13	-42.27	V
5.133000	55.76	Pk	34.2	-95.2	-46.33	-51.57	-13	-38.57	H
5.132500	54.45	Pk	34.2	-95.2	-46.34	-52.89	-13	-39.89	V
6.841500	52.48	Pk	35.5	-95.2	-44.05	-51.27	-13	-38.27	H
6.840000	51.33	Pk	35.5	-95.2	-43.99	-52.36	-13	-39.36	V
Mid Channel, 1745MHz									
3.420000	53.72	Pk	32.8	-95.2	-46.24	-54.92	-13	-41.92	H
3.421000	54.32	Pk	32.8	-95.2	-46.3	-54.38	-13	-41.38	V
5.130500	52.87	Pk	34.2	-95.2	-46.28	-54.41	-13	-41.41	H
5.129000	52.32	Pk	34.2	-95.2	-46.25	-54.93	-13	-41.93	V
6.837000	52.42	Pk	35.5	-95.2	-43.99	-51.27	-13	-38.27	H
6.838500	52.11	Pk	35.5	-95.2	-43.99	-51.58	-13	-38.58	V
High Channel, 1770MHz									
3.521000	52.78	Pk	32.9	-95.2	-46.22	-55.74	-13	-42.74	H
3.520000	53.48	Pk	32.9	-95.2	-46.17	-54.99	-13	-41.99	V
5.282500	53.02	Pk	34.2	-95.2	-46.24	-54.22	-13	-41.22	H
5.283000	54.47	Pk	34.1	-95.2	-46.2	-52.83	-13	-39.83	V
7.043000	51.83	Pk	35.6	-95.2	-44.83	-52.60	-13	-39.60	H
7.042000	52.21	Pk	35.6	-95.2	-44.82	-52.21	-13	-39.21	V

BPSK 5G NR n66 (40.0MHZ BANDWIDTH)

Project #:	4790592295
Date:	07/8/2023
Test Engineer:	32981
Configuration:	EUT only
Mode	N66 BPSK 40MHz
Chamber #:	04-RDE-Q

Frequency (GHz)	Meter Reading (dBuV)	Det	84796 ACF (dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 1730MHz									
3.450500	53.01	Pk	32.9	-95.2	-46.01	-55.30	-13	-42.30	H
3.452000	54.71	Pk	32.9	-95.2	-46.06	-53.65	-13	-40.65	V
5.175000	53.17	Pk	34.2	-95.2	-46.17	-54.00	-13	-41.00	H
5.175500	52.51	Pk	34.2	-95.2	-46.18	-54.67	-13	-41.67	V
6.901000	51.71	Pk	35.5	-95.2	-44.51	-52.50	-13	-39.50	H
6.902500	51.68	Pk	35.5	-95.2	-44.53	-52.55	-13	-39.55	V
Mid Channel, 1745MHz									
3.451000	54.42	Pk	32.9	-95.2	-46.02	-53.90	-13	-40.90	H
3.451000	53.69	Pk	32.9	-95.2	-46.02	-54.63	-13	-41.63	V
5.177500	53.57	Pk	34.2	-95.2	-46.23	-53.66	-13	-40.66	H
5.177000	52.46	Pk	34.2	-95.2	-46.21	-54.75	-13	-41.75	V
6.901500	51.54	Pk	35.5	-95.2	-44.52	-52.68	-13	-39.68	H
6.902500	52.54	Pk	35.5	-95.2	-44.53	-51.69	-13	-38.69	V
High Channel, 1760MHz									
3.481500	54.21	Pk	32.9	-95.2	-46.13	-54.22	-13	-41.22	H
3.480500	52.37	Pk	32.9	-95.2	-46.07	-56.00	-13	-43.00	V
5.223000	54.63	Pk	34.1	-95.2	-46.12	-52.59	-13	-39.59	H
5.221500	52.79	Pk	34.1	-95.2	-46.11	-54.42	-13	-41.42	V
6.961000	51.83	Pk	35.5	-95.2	-44.76	-52.63	-13	-39.63	H
6.960000	54.98	Pk	35.5	-95.2	-44.79	-49.51	-13	-36.51	V

10.3.12. 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 #:	4790592295
Date:	07/8/2023
Test Engineer:	32981
Configuration:	EUT only
Mode	N70 BPSK 15MHz
Chamber #:	04-RDE-Q

Frequency (GHz)	Meter Reading (dBuV)	Det	84796 ACF (dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Mid Channel, 1702.5MHz									
3.388000	55.1	Pk	32.8	-95.2	-46.33	-53.63	-13	-40.63	H
3.387500	54.17	Pk	32.8	-95.2	-46.29	-54.52	-13	-41.52	V
5.086500	56.26	Pk	34.3	-95.2	-46.21	-50.85	-13	-37.85	H
5.086500	57.16	Pk	34.3	-95.2	-46.21	-49.95	-13	-36.95	V
6.780500	52.23	Pk	35.5	-95.2	-44.79	-52.26	-13	-39.26	H
6.781000	52.59	Pk	35.5	-95.2	-44.78	-51.89	-13	-38.89	V

10.3.13. 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 #:	4790592295
Date:	07/5/2023
Test Engineer:	32186
Configuration:	EUT only
Mode	LTE 71 QPSK 20MHz
Chamber #:	04-RDE-Q

Frequency (GHz)	Meter Reading (dBuV)	Det	84796 ACF (dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 673MHz									
1.326700	53.45	Pk	29	-95.2	-47.19	-59.94	-13	-46.94	H
1.326700	53.96	Pk	29	-95.2	-47.19	-59.43	-13	-46.43	V
1.989100	55.55	Pk	30.9	-95.2	-47.35	-56.10	-13	-43.10	H
1.989100	54.12	Pk	30.9	-95.2	-47.35	-57.53	-13	-44.53	V
2.652400	54.91	Pk	32.4	-95.2	-47.25	-55.14	-13	-42.14	H
2.652400	55.5	Pk	32.4	-95.2	-47.25	-54.55	-13	-41.55	V
Mid Channel, 680.5MHz									
1.341550	52.3	Pk	29	-95.2	-47.29	-61.19	-13	-48.19	H
1.341550	52.62	Pk	29	-95.2	-47.29	-60.87	-13	-47.87	V
2.011600	55.27	Pk	31	-95.2	-47.50	-56.43	-13	-43.43	H
2.011600	54.09	Pk	31	-95.2	-47.50	-57.61	-13	-44.61	V
2.682100	54.56	Pk	32.5	-95.2	-46.70	-54.84	-13	-41.84	H
2.682100	54.82	Pk	32.5	-95.2	-46.70	-54.58	-13	-41.58	V
High Channel, 688MHz									
1.356400	55.85	Pk	28.9	-95.2	-47.31	-57.76	-13	-44.76	H
1.356400	55.09	Pk	28.9	-95.2	-47.31	-58.52	-13	-45.52	V
2.034550	55.03	Pk	31	-95.2	-47.76	-56.93	-13	-43.93	H
2.034550	55.63	Pk	31	-95.2	-47.76	-56.33	-13	-43.33	V
2.712250	54.14	Pk	32.4	-95.2	-46.64	-55.30	-13	-42.30	H
2.712250	53.96	Pk	32.4	-95.2	-46.64	-55.48	-13	-42.48	V

BPSK 5G NR n71 (20.0MHZ BANDWIDTH)

Project #:	4790592295
Date:	07/6/2023
Test Engineer:	32545
Configuration:	EUT only
Mode	N71 BPSK 20MHz
Chamber #:	01-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	200786 ACF (dB/m)	172654 HPF (dB)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 673MHz										
1.446400	39.89	Pk	28	-8	-95.2	-35.26	-63.37	-13	-50.37	H
1.446400	39.92	Pk	28	-8	-95.2	-35.26	-63.34	-13	-50.34	V
2.018889	38.82	Pk	31.1	-5	-95.2	-35.03	-60.81	-13	-47.81	H
2.018889	38.76	Pk	31.1	-5	-95.2	-35.03	-60.87	-13	-47.87	V
2.692089	38.57	Pk	32.1	-6	-95.2	-34.64	-59.77	-13	-46.77	H
2.692089	38.18	Pk	32.1	-6	-95.2	-34.64	-60.16	-13	-47.16	V
Mid Channel, 680.5MHz										
1.361333	40.32	Pk	28.5	-1	-95.2	-34.99	-62.37	-13	-49.37	H
1.361333	40.27	Pk	28.5	-1	-95.2	-34.99	-62.42	-13	-49.42	V
2.040889	38.57	Pk	31.3	-5	-95.2	-34.92	-60.75	-13	-47.75	H
2.041867	39.3	Pk	31.3	-5	-95.2	-35.06	-60.16	-13	-47.16	V
2.722400	40.13	Pk	32.1	-5	-95.2	-34.58	-58.05	-13	-45.05	H
2.722400	40.45	Pk	32.1	-5	-95.2	-34.58	-57.73	-13	-44.73	V
High Channel, 688MHz										
1.376489	40.99	Pk	28.4	-1	-95.2	-35.16	-61.97	-13	-48.97	H
1.376489	40.04	Pk	28.4	-1	-95.2	-35.16	-62.92	-13	-49.92	V
2.064356	41.36	Pk	31.4	-5	-95.2	-35.01	-57.95	-13	-44.95	H
2.064356	39.96	Pk	31.4	-5	-95.2	-35.01	-59.35	-13	-46.35	V
2.752223	39.88	Pk	32.2	-6	-95.2	-34.58	-58.30	-13	-45.30	H
2.752223	40	Pk	32.2	-6	-95.2	-34.58	-58.18	-13	-45.18	V

10.4. FIELD STRENGTH OF SPURIOUS RADIATION, ANT4

TEST PROCEDURE

KDB 971168 D01 v03r01/D02 v02r02

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

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 #:	4790592295
Date:	04/12/2023
Test Engineer:	32145
Configuration:	EUT only
Mode	LTE7 QPSK 20MHz
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	Horn Antenna ACF(dB)	BRF 2495-2690MHz T1790 1-18GHz	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 2510MHz										
4.996406	36.43	Pk	34.2	.8	-95.2	-23.76	-47.53	-25	-22.53	H
4.997813	34.92	Pk	34.2	.8	-95.2	-23.76	-49.04	-25	-24.04	V
7.504688	35.05	Pk	35.5	.3	-95.2	-19.52	-43.87	-25	-18.87	H
7.496250	32.63	Pk	35.5	.4	-95.2	-19.47	-46.14	-25	-21.14	V
10.039219	32.85	Pk	36.9	.7	-95.2	-17.05	-41.80	-25	-16.80	H
10.09125	32.49	Pk	37	.6	-95.2	-17.14	-42.25	-25	-17.25	V
Mid Channel, 2535MHz										
5.091563	35.75	Pk	34.4	.8	-95.2	-23.25	-47.50	-25	-22.50	H
5.082188	35.56	Pk	34.3	.8	-95.2	-23.16	-47.70	-25	-22.70	V
7.627969	33.3	Pk	35.6	.4	-95.2	-19.16	-45.06	-25	-20.06	H
7.617188	33.23	Pk	35.5	.4	-95.2	-19.22	-45.29	-25	-20.29	V
10.164375	33.16	Pk	37	.5	-95.2	-16.82	-41.36	-25	-16.36	H
10.159219	33.17	Pk	37	.6	-95.2	-16.84	-41.27	-25	-16.27	V
High Channel, 2560MHz										
5.100938	34.66	Pk	34.4	.8	-95.2	-23.28	-48.62	-25	-23.62	H
5.115000	34.39	Pk	34.4	.8	-95.2	-23.18	-48.79	-25	-23.79	V
7.673438	32.72	Pk	35.6	.4	-95.2	-18.88	-45.36	-25	-20.36	H
7.665938	33.48	Pk	35.5	.3	-95.2	-18.93	-44.85	-25	-19.85	V
10.26375	33.35	Pk	37.1	.7	-95.2	-16.63	-40.68	-25	-15.68	H
10.233281	32.67	Pk	37.1	.8	-95.2	-16.75	-41.38	-25	-16.38	V

BPSK 5G NR 7 (40.0MHZ BANDWIDTH)

Project #:	4790592295
Date:	05/08/2023
Test Engineer:	32145
Configuration:	EUT only
Mode	n7 BPSK 40MHz
Chamber #:	05-RDE-D

Frequency (GHz)	Meter Reading (dBuV)	Det	80402 ACF(dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 2520MHz									
5.040500	54.09	Pk	34.4	-95.2	-47.74	-54.45	-25	-29.45	H
5.040500	54.94	Pk	34.4	-95.2	-47.74	-53.60	-25	-28.60	V
7.560500	53.05	Pk	35.8	-95.2	-45.73	-52.08	-25	-27.08	H
7.560500	52.17	Pk	35.8	-95.2	-45.73	-52.96	-25	-27.96	V
10.080500	53.34	Pk	37.5	-95.2	-45.48	-49.84	-25	-24.84	H
10.080500	53.32	Pk	37.5	-95.2	-45.48	-49.86	-25	-24.86	V
Mid Channel, 2535MHz									
5.070500	54.78	Pk	34.5	-95.2	-47.91	-53.83	-25	-28.83	H
5.070500	55.75	Pk	34.5	-95.2	-47.91	-52.86	-25	-27.86	V
7.606000	52.68	Pk	35.7	-95.2	-45.60	-52.42	-25	-27.42	H
7.606000	52.41	Pk	35.7	-95.2	-45.60	-52.69	-25	-27.69	V
10.141000	52.42	Pk	37.5	-95.2	-45.51	-50.79	-25	-25.79	H
10.141000	53.46	Pk	37.5	-95.2	-45.51	-49.75	-25	-24.75	V
High Channel, 2550MHz									
5.088000	57.22	Pk	34.5	-95.2	-47.76	-51.24	-25	-26.24	H
5.099000	56.14	Pk	34.5	-95.2	-47.66	-52.22	-25	-27.22	V
7.645500	54.13	Pk	35.7	-95.2	-45.62	-50.99	-25	-25.99	H
7.695000	53.82	Pk	35.8	-95.2	-45.22	-50.80	-25	-25.80	V
10.211000	54.68	Pk	37.5	-95.2	-45.25	-48.27	-25	-23.27	H
10.195500	54.48	Pk	37.5	-95.2	-45.14	-48.36	-25	-23.36	V

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 #:	4790592295
Date:	05/16/2023
Test Engineer:	32186
Configuration:	EUT only
Mode	LTE25 QPSK 20MHz
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	84796 ACF (dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 1860MHz									
3.700500	52.15	Pk	32.8	-95.2	-45.87	-56.12	-13	-43.12	H
3.700500	52.18	Pk	32.8	-95.2	-45.87	-56.09	-13	-43.09	V
5.550500	52.96	Pk	34.6	-95.2	-45.71	-53.35	-13	-40.35	H
5.550500	51.73	Pk	34.6	-95.2	-45.71	-54.58	-13	-41.58	V
7.401000	52.18	Pk	35.4	-95.2	-44.47	-52.09	-13	-39.09	H
7.401000	50.33	Pk	35.4	-95.2	-44.47	-53.94	-13	-40.94	V
Mid Channel, 1882.5MHz									
3.745000	52	Pk	32.7	-95.2	-46.04	-56.54	-13	-43.54	H
3.744000	53.77	Pk	32.7	-95.2	-46.01	-54.74	-13	-41.74	V
5.617500	52.08	Pk	34.7	-95.2	-45.89	-54.31	-13	-41.31	H
5.617000	51.55	Pk	34.7	-95.2	-45.91	-54.86	-13	-41.86	V
7.491000	50.48	Pk	35.5	-95.2	-44.35	-53.57	-13	-40.57	H
7.491500	50.86	Pk	35.5	-95.2	-44.34	-53.18	-13	-40.18	V
High Channel, 1905MHz									
3.790500	54.54	Pk	32.8	-95.2	-46.12	-53.98	-13	-40.98	H
3.791000	54.24	Pk	32.8	-95.2	-46.12	-54.28	-13	-41.28	V
5.685500	52.37	Pk	34.8	-95.2	-45.87	-53.90	-13	-40.90	H
5.684000	52.63	Pk	34.8	-95.2	-45.87	-53.64	-13	-40.64	V
7.580500	50.08	Pk	35.5	-95.2	-44.10	-53.72	-13	-40.72	H
7.578000	52.26	Pk	35.5	-95.2	-44.11	-51.55	-13	-38.55	V

BPSK 5G NR 25 (40.0MHZ BANDWIDTH)

Project #:	4790592295
Date:	05/08/2023
Test Engineer:	32145
Configuration:	EUT only
Mode	n25 BPSK 40MHz
Chamber #:	05-RDE-D

Frequency (GHz)	Meter Reading (dBuV)	Det	80402 ACF(dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 1870MHz									
3.749000	55.03	Pk	33.4	-95.2	-46.83	-53.60	-13	-40.6	H
3.745000	55.42	Pk	33.4	-95.2	-46.82	-53.20	-13	-40.2	V
5.620000	55.53	Pk	34.8	-95.2	-46.68	-51.55	-13	-38.55	H
5.639500	55.7	Pk	34.8	-95.2	-46.77	-51.47	-13	-38.47	V
7.468000	54.16	Pk	35.8	-95.2	-45.85	-51.09	-13	-38.09	H
7.455000	55.35	Pk	35.8	-95.2	-46.06	-50.11	-13	-37.11	V
Mid Channel, 1882.5MHz									
3.750000	55.93	Pk	33.4	-95.2	-46.89	-52.76	-13	-39.76	H
3.736500	55.82	Pk	33.4	-95.2	-46.89	-52.87	-13	-39.87	V
5.629000	55.45	Pk	34.8	-95.2	-46.79	-51.74	-13	-38.74	H
5.653000	54.95	Pk	34.8	-95.2	-46.59	-52.04	-13	-39.04	V
7.525500	54.36	Pk	35.8	-95.2	-45.65	-50.69	-13	-37.69	H
7.546000	53.58	Pk	35.8	-95.2	-45.6	-51.42	-13	-38.42	V
High Channel, 1995MHz									
3.781000	56.21	Pk	33.5	-95.2	-46.7	-52.19	-13	-39.19	H
3.768000	55.13	Pk	33.4	-95.2	-46.89	-53.56	-13	-40.56	V
5.702500	55.39	Pk	34.8	-95.2	-46.38	-51.39	-13	-38.39	H
5.725000	54.51	Pk	34.8	-95.2	-46.14	-52.03	-13	-39.03	V
7.559500	54.77	Pk	35.8	-95.2	-45.72	-50.35	-13	-37.35	H
7.583000	54.7	Pk	35.7	-95.2	-45.83	-50.63	-13	-37.63	V

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 #:	4790592295
Date:	07/7/2023
Test Engineer:	32981
Configuration:	EUT only
Mode	LTE30 QPSK 10MHz
Chamber #:	04-RDE-Q

Frequency (GHz)	Meter Reading (dBuV)	Det	Horn Antenna ACF(dB)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Mid Channel, 2310MHz									
4.611480	43.93	RMS	34.1	-95.2	-46.76	-63.93	-40	-23.93	H
4.612234	43.9	RMS	34.1	-95.2	-46.75	-63.95	-40	-23.95	V
6.914791	42.26	RMS	35.5	-95.2	-45.10	-62.54	-40	-22.54	H
6.916752	42.16	RMS	35.5	-95.2	-45.09	-62.63	-40	-22.63	V
9.220780	42.9	RMS	36.3	-95.2	-43.88	-59.88	-40	-19.88	H
9.220289	42.91	RMS	36.4	-95.2	-43.87	-59.76	-40	-19.76	V

BPSK 5G NR 30 (10.0MHZ BANDWIDTH)

Project #:	4790592295
Date:	07/8/2023
Test Engineer:	32545
Configuration:	EUT only
Mode	n30 BPSK 10MHz
Chamber #:	01-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	Horn Antenna ACF(dB)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Mid Channel, 2310MHz									
4.620469	22	RMS	34	-95.2	-23.86	-63.06	-40	-23.06	H
4.620469	22.13	RMS	34	-95.2	-23.86	-62.93	-40	-22.93	V
6.930469	19.23	RMS	35.7	-95.2	-19.57	-59.84	-40	-19.84	H
6.930000	19.13	RMS	35.7	-95.2	-19.59	-59.96	-40	-19.96	V
9.240469	17.9	RMS	36.1	-95.2	-17.47	-58.67	-40	-18.67	H
9.240469	18.68	RMS	36.1	-95.2	-17.47	-57.89	-40	-17.89	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 (20MHZ BANDWIDTH)

Project #:	4790592295
Date:	04/10/2023
Test Engineer:	32145
Configuration:	EUT only
Mode	LTE41 QPSK 20MHz
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	Horn Antenna ACF(dB)	BRF 2495-2690MHz T1790 1-18GHz	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 2506MHz										
5.040469	34.95	Pk	34.3	.6	-95.2	-23.28	-48.63	-25	-23.63	H
5.040938	34.69	Pk	34.3	.6	-95.2	-23.25	-48.86	-25	-23.86	V
7.501875	33.52	Pk	35.5	.4	-95.2	-19.48	-45.26	-25	-20.26	H
7.494844	33.52	Pk	35.5	.3	-95.2	-19.42	-45.30	-25	-20.30	V
10.030313	33.49	Pk	36.9	.7	-95.2	-16.97	-41.08	-25	-16.08	H
10.049063	32.79	Pk	36.9	.7	-95.2	-17.11	-41.92	-25	-16.92	V
Mid Channel, 2593MHz										
5.171719	34.75	Pk	34.4	.7	-95.2	-23.11	-48.46	-25	-23.46	H
5.162344	35.42	Pk	34.4	.7	-95.2	-23.18	-47.86	-25	-22.86	V
7.757344	33.35	Pk	35.6	.3	-95.2	-19.06	-45.01	-25	-20.01	H
7.729688	32.77	Pk	35.6	.3	-95.2	-19.02	-45.55	-25	-20.55	V
10.366875	32.94	Pk	37.2	.8	-95.2	-16.32	-40.58	-25	-15.58	H
10.342031	32.2	Pk	37.1	.7	-95.2	-16.45	-41.65	-25	-16.65	V
High Channel, 2680MHz										
5.339063	34.51	Pk	34.6	.6	-95.2	-23.27	-48.76	-25	-23.76	H
5.341406	33.02	Pk	34.6	.6	-95.2	-23.27	-50.25	-25	-25.25	V
8.023594	34.37	Pk	35.7	.3	-95.2	-18.77	-43.60	-25	-18.60	H
8.030156	33.04	Pk	35.7	.3	-95.2	-18.80	-44.96	-25	-19.96	V
10.708125	32.58	Pk	37.5	.5	-95.2	-16.24	-40.86	-25	-15.86	H
10.691250	32.58	Pk	37.4	.5	-95.2	-16.32	-41.04	-25	-16.04	V

BPSK 5G NR n41 (100.0MHZ BANDWIDTH)

Project #:	4790592295
Date:	07/2/2023
Test Engineer:	32545
Configuration:	EUT only
Mode	n41 BPSK 100MHz
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	81886 ACF (dB) 3mH	BRF 2495-2690MHz T1790 1-18GHz	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 2546MHz										
5.092500	30.86	Pk	34.2	.8	-95.2	-23.24	-52.58	-25	-27.58	H
5.092500	31.23	Pk	34.2	.8	-95.2	-23.24	-52.21	-25	-27.21	V
7.638281	29.58	Pk	35.8	.4	-95.2	-18.97	-48.39	-25	-23.39	H
7.638281	29.49	Pk	35.8	.4	-95.2	-18.97	-48.48	-25	-23.48	V
10.185000	27.44	Pk	37.6	.6	-95.2	-16.89	-46.45	-25	-21.45	H
10.184063	28.07	Pk	37.6	.6	-95.2	-16.83	-45.76	-25	-20.76	V
Mid Channel, 2593MHz										
5.186250	32.23	Pk	34.1	.8	-95.2	-23.03	-51.10	-25	-26.10	H
5.186719	31.2	Pk	34.1	.8	-95.2	-23.02	-52.12	-25	-27.12	V
7.779375	30.79	Pk	35.8	.3	-95.2	-18.99	-47.30	-25	-22.30	H
7.779375	28.54	Pk	35.8	.3	-95.2	-18.99	-49.55	-25	-24.55	V
10.372500	27.02	Pk	37.8	.8	-95.2	-16.38	-45.96	-25	-20.96	H
10.372500	26.55	Pk	37.8	.8	-95.2	-16.38	-46.43	-25	-21.43	V
High Channel, 2640MHz										
5.280000	31.8	Pk	34.3	.3	-95.2	-23.52	-52.32	-25	-27.32	H
5.280000	31.07	Pk	34.3	.3	-95.2	-23.52	-53.05	-25	-28.05	V
7.920000	29.58	Pk	35.9	.2	-95.2	-19.13	-48.65	-25	-23.65	H
7.920000	31.02	Pk	35.9	.2	-95.2	-19.13	-47.21	-25	-22.21	V
10.560469	27.37	Pk	37.9	.7	-95.2	-16.38	-45.61	-25	-20.61	H
10.560469	25.88	Pk	37.9	.7	-95.2	-16.38	-47.10	-25	-22.10	V

10.4.5. LTE BAND 48 AND 5G NR n48

LIMITS

FCC: §96.41

(e) 3.5 GHz Emissions and Interference Limits—

(2) Additional protection levels. Notwithstanding paragraph (d)(1) of this section, the conducted power of any emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.

QPSK LTE BAND 48 (20.0MHZ BANDWIDTH)

Project #:	4790592295
Date:	07/6/2023
Test Engineer:	32186
Configuration:	EUT only
Mode	LTE48 QPSK 20MHz
Chamber #:	01-RDE-5

Frequency (GHz)	Meter Reading (dBuV)	Det	Horn Antenna ACF(dB)	T1792 3400-3800MHz BRF	EIRP CF	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 3560MHz									
7.103336	42.36	RMS	35.6	-95.2	-44.98	-62.22	-40	-22.22	H
7.103336	41.99	RMS	35.6	-95.2	-44.98	-62.59	-40	-22.59	V
10.650005	43.04	RMS	37.7	-95.2	-44.76	-59.22	-40	-19.22	H
10.650005	42.92	RMS	37.7	-95.2	-44.76	-59.34	-40	-19.34	V
14.200874	42.99	RMS	39.4	-95.2	-43.74	-56.55	-40	-16.55	H
14.200874	43.44	RMS	39.4	-95.2	-43.74	-56.1	-40	-16.1	V
Mid Channel, 3625MHz									
7.230736	40.81	RMS	35.6	-95.2	-44.6	-63.39	-40	-23.39	H
7.231202	41.52	RMS	35.6	-95.2	-44.59	-62.67	-40	-22.67	V
10.845538	43.26	RMS	37.7	-95.2	-44.85	-59.09	-40	-19.09	H
10.845538	42.83	RMS	37.7	-95.2	-44.85	-59.52	-40	-19.52	V
14.460341	43.52	RMS	39.3	-95.2	-43.58	-55.96	-40	-15.96	H
14.460341	43.4	RMS	39.3	-95.2	-43.58	-56.08	-40	-16.08	V
High Channel, 3690MHz									
7.360936	41.82	RMS	35.5	-95.2	-44.85	-62.73	-40	-22.73	H
7.361402	41.85	RMS	35.5	-95.2	-44.86	-62.71	-40	-22.71	V
11.040138	43.09	RMS	37.9	-95.2	-44.77	-58.98	-40	-18.98	H
11.039672	43.26	RMS	37.9	-95.2	-44.78	-58.82	-40	-18.82	V
14.720274	42.9	RMS	39	-95.2	-42.96	-56.26	-40	-16.26	H
14.720274	42.24	RMS	39	-95.2	-42.96	-56.92	-40	-16.92	V

BPSK 5G NR n48 (40.0MHZ BANDWIDTH)

Project #:	4790592295
Date:	6/29/2023
Test Engineer:	32545
Configuration:	EUT only
Mode	n48 BPSK 40MHz
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	81886 ACF (dB) 3mH	T1792 3400-3800MHz BRF	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 3570MHz										
7.140356	19.23	RMS	35.6	.6	-95.2	-19.84	-59.61	-40	-19.61	H
7.140356	18.13	RMS	35.6	.6	-95.2	-19.84	-60.71	-40	-20.71	V
10.710300	17.24	RMS	37.9	.5	-95.2	-16.24	-55.80	-40	-15.80	H
10.710741	16.98	RMS	37.9	.5	-95.2	-16.23	-56.05	-40	-16.05	V
14.280684	17.01	RMS	39.4	.7	-95.2	-15.06	-53.15	-40	-13.15	H
14.281125	16.51	RMS	39.4	.7	-95.2	-15.07	-53.66	-40	-13.66	V
Mid Channel, 3625MHz										
7.250072	18.26	RMS	35.6	.6	-95.2	-19.69	-60.43	-40	-20.43	H
7.250072	18.58	RMS	35.6	.6	-95.2	-19.69	-60.11	-40	-20.11	V
10.875094	16.91	RMS	37.9	.5	-95.2	-15.89	-55.78	-40	-15.78	H
10.875094	17.23	RMS	37.9	.5	-95.2	-15.89	-55.46	-40	-15.46	V
14.500116	16.54	RMS	39.7	.8	-95.2	-15.63	-53.79	-40	-13.79	H
14.500116	17.11	RMS	39.7	.8	-95.2	-15.63	-53.22	-40	-13.22	V
High Channel, 3680MHz										
7.360228	18.13	RMS	35.6	.7	-95.2	-19.39	-60.16	-40	-20.16	H
7.360228	17.93	RMS	35.6	.7	-95.2	-19.39	-60.36	-40	-20.36	V
11.039888	16.63	RMS	37.9	.6	-95.2	-15.69	-55.76	-40	-15.76	H
11.039888	16.83	RMS	37.9	.6	-95.2	-15.69	-55.56	-40	-15.56	V
14.720428	15.76	RMS	40	.9	-95.2	-14.79	-53.33	-40	-13.33	H
14.719988	16.25	RMS	40	.9	-95.2	-14.8	-52.85	-40	-12.85	V

10.4.6. 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 #:	4790592295
Date:	07/6/2023
Test Engineer:	32186
Configuration:	EUT only
Mode	LTE66 QPSK 20MHz
Chamber #:	04-RDE-Q

Frequency (GHz)	Meter Reading (dBuV)	Det	84796 ACF (dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 1720MHz									
3.420000	53.18	Pk	32.8	-95.2	-46.24	-55.46	-13	-42.46	H
3.420000	52.42	Pk	32.8	-95.2	-46.24	-56.22	-13	-43.22	V
5.130500	51.89	Pk	34.2	-95.2	-46.28	-55.39	-13	-42.39	H
5.130500	54.13	Pk	34.2	-95.2	-46.28	-53.15	-13	-40.15	V
6.840500	51.74	Pk	35.5	-95.2	-44.02	-51.98	-13	-38.98	H
6.840500	51.69	Pk	35.5	-95.2	-44.02	-52.03	-13	-39.03	V
Mid Channel, 1745MHz									
3.470500	53.42	Pk	32.9	-95.2	-46.01	-54.89	-13	-41.89	H
3.470000	51.53	Pk	32.9	-95.2	-46.05	-56.82	-13	-43.82	V
5.205500	50.99	Pk	34.2	-95.2	-46.06	-56.07	-13	-43.07	H
5.205500	52.2	Pk	34.2	-95.2	-46.06	-54.86	-13	-41.86	V
6.940500	50.84	Pk	35.5	-95.2	-44.79	-53.65	-13	-40.65	H
6.940500	51.5	Pk	35.5	-95.2	-44.79	-52.99	-13	-39.99	V
High Channel, 1770MHz									
3.520500	51.65	Pk	32.9	-95.2	-46.2	-56.85	-13	-43.85	H
3.520000	54.1	Pk	32.9	-95.2	-46.17	-54.37	-13	-41.37	V
5.281000	52.18	Pk	34.1	-95.2	-46.3	-55.22	-13	-42.22	H
5.281000	52.58	Pk	34.1	-95.2	-46.3	-54.82	-13	-41.82	V
7.040500	50.65	Pk	35.6	-95.2	-44.77	-53.72	-13	-40.72	H
7.040500	51.94	Pk	35.6	-95.2	-44.77	-52.43	-13	-39.43	V

BPSK 5G NR n66 (40.0MHZ BANDWIDTH)

Project #:	4790592295
Date:	05/08/2023
Test Engineer:	32186
Configuration:	EUT only
Mode	n66 BPSK 40MHz
Chamber #:	05-RDE-D

Frequency (GHz)	Meter Reading (dBuV)	Det	84796 ACF (dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 1730MHz									
3.420500	52.51	Pk	32.8	-95.2	-46.27	-56.16	-13	-43.16	H
3.420500	52.72	Pk	32.8	-95.2	-46.27	-55.95	-13	-42.95	V
5.130500	52.36	Pk	34.2	-95.2	-46.28	-54.92	-13	-41.92	H
5.131000	51.75	Pk	34.2	-95.2	-46.31	-55.56	-13	-42.56	V
6.840500	50.59	Pk	35.5	-95.2	-44.02	-53.13	-13	-40.13	H
6.841000	51.21	Pk	35.5	-95.2	-44.05	-52.54	-13	-39.54	V
Mid Channel, 1745MHz									
3.450500	53.12	Pk	32.9	-95.2	-46.01	-55.19	-13	-42.19	H
3.449500	52.73	Pk	32.9	-95.2	-46.00	-55.57	-13	-42.57	V
5.175500	53.2	Pk	34.2	-95.2	-46.18	-53.98	-13	-40.98	H
5.176000	52.31	Pk	34.2	-95.2	-46.18	-54.87	-13	-41.87	V
6.901000	52.04	Pk	35.5	-95.2	-44.51	-52.17	-13	-39.17	H
6.901000	52.76	Pk	35.5	-95.2	-44.51	-51.45	-13	-38.45	V
High Channel, 1760MHz									
3.549000	55.26	Pk	33	-95.2	-46.54	-53.48	-13	-40.48	H
3.531500	55.23	Pk	32.9	-95.2	-46.45	-53.52	-13	-40.52	V
5.283500	56.24	Pk	34.6	-95.2	-47.10	-51.46	-13	-38.46	H
5.298500	56.03	Pk	34.6	-95.2	-47.06	-51.63	-13	-38.63	V
7.043500	54.09	Pk	35.9	-95.2	-45.81	-51.02	-13	-38.02	H
7.063000	54.39	Pk	35.9	-95.2	-46.02	-50.93	-13	-37.93	V

10.4.7. 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)

Project #:	4790592295
Date:	05/09/2023
Test Engineer:	32145
Configuration:	EUT only
Mode	N70 BPSK 15MHz
Chamber #:	05-RDE-D

Frequency (GHz)	Meter Reading (dBuV)	Det	80402 ACF(dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Mid Channel, 1702.5MHz									
3.420000	55.08	Pk	32.8	-95.2	-46.30	-53.62	-13	-40.62	H
3.422000	54.75	Pk	32.8	-95.2	-46.28	-53.93	-13	-40.93	V
5.114000	56.64	Pk	34.5	-95.2	-47.50	-51.56	-13	-38.56	H
5.124000	57.15	Pk	34.5	-95.2	-47.47	-51.02	-13	-38.02	V
6.795000	56.54	Pk	35.7	-95.2	-45.68	-48.64	-13	-35.64	H
6.795000	55.06	Pk	35.7	-95.2	-45.68	-50.12	-13	-37.12	V

10.4.8. 5G NR n77 (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 #:	4790592295
Date:	07/24/2023
Test Engineer:	26120
Configuration:	EUT only
Mode	n77 BPSK 100MHz
Chamber #:	01-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	200786 ACF (dB/m)	T1792 3400-3800MHz BRF	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Mid Channel, 3500MHz										
6.999260	37.15	Pk	35.7	.5	-95.2	-27.40	-49.25	-13	-36.25	H
6.999336	36.81	Pk	35.7	.5	-95.2	-27.41	-49.60	-13	-36.60	V
10.500101	36.47	Pk	37.8	.6	-95.2	-24.74	-45.07	-13	-32.07	H
10.499005	35.5	Pk	37.8	.6	-95.2	-24.80	-46.10	-13	-33.10	V
14.000454	31.57	Pk	39	.7	-95.2	-20.46	-44.39	-13	-31.39	H
14.001081	31.83	Pk	39	.7	-95.2	-20.47	-44.14	-13	-31.14	V

10.4.9. 5G NR n77 (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 #:	4790592295
Date:	05/09/2023
Test Engineer:	32186
Configuration:	EUT only
Mode	n77 BPSK 100MHz
Chamber #:	04-RDE-Q

Frequency (GHz)	Meter Reading (dBuV)	Det	84796 ACF (dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 3750MHz									
7.400747	51.22	Pk	35.4	-95.2	-44.81	-53.39	-13	-40.39	H
7.401146	53.76	Pk	35.4	-95.2	-44.81	-50.85	-13	-37.85	V
11.000483	53.3	Pk	37.8	-95.2	-45.02	-49.12	-13	-36.12	H
11.002474	54.27	Pk	37.9	-95.2	-45.05	-48.08	-13	-35.08	V
14.800181	52.46	Pk	39	-95.2	-43.66	-47.40	-13	-34.40	H
14.800181	53.96	Pk	39	-95.2	-43.66	-45.90	-13	-32.90	V
Mid Channel, 3840MHz									
7.580395	50.18	Pk	35.5	-95.2	-44.26	-53.78	-13	-40.78	H
7.581192	50.51	Pk	35.5	-95.2	-44.28	-53.47	-13	-40.47	V
11.370932	51.05	Pk	38.3	-95.2	-44.46	-50.31	-13	-37.31	H
11.370136	52.67	Pk	38.3	-95.2	-44.47	-48.70	-13	-35.70	V
15.160274	52.8	Pk	39.6	-95.2	-43.21	-46.01	-13	-33.01	H
15.159876	52.71	Pk	39.6	-95.2	-43.21	-46.10	-13	-33.10	V
High Channel, 3930MHz									
7.760840	51.36	Pk	35.6	-95.2	-44.62	-52.86	-13	-39.86	H
7.760442	50.17	Pk	35.6	-95.2	-44.62	-54.05	-13	-41.05	V
11.640205	50.27	Pk	38.5	-95.2	-43.83	-50.26	-13	-37.26	H
11.639409	51.22	Pk	38.5	-95.2	-43.83	-49.31	-13	-36.31	V
15.520765	52.34	Pk	40.2	-95.2	-42.80	-45.46	-13	-32.46	H
15.520765	53.9	Pk	40.2	-95.2	-42.80	-43.90	-13	-30.90	V

10.5. FIELD STRENGTH OF SPURIOUS RADIATION, ANT7

TEST PROCEDURE

KDB 971168 D01 v03r01/D02 v02r02

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

RESULTS

10.5.1. LTE BAND 48 AND 5G NR n48

LIMITS

FCC: §96.41

(e) 3.5 GHz Emissions and Interference Limits—

(2) Additional protection levels. Notwithstanding paragraph (d)(1) of this section, the conducted power of any emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz

QPSK LTE BAND 48 (20.0MHZ BANDWIDTH)

Project #:	4790592295
Date:	07/6/2023
Test Engineer:	32186
Configuration:	EUT only
Mode	LTE48 QPSK 20MHz
Chamber #:	04-RDE-Q

Frequency (GHz)	Meter Reading (dBuV)	Det	Horn Antenna ACF(dB)	T1792 3400-3800MHz BRF	EIRP CF	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 3560MHz									
7.100069	41.24	RMS	35.6	-95.2	-44.97	-63.33	-40	-23.33	H
7.100069	41.15	RMS	35.6	-95.2	-44.97	-63.42	-40	-23.42	V
10.650471	42.94	RMS	37.7	-95.2	-44.73	-59.29	-40	-19.29	H
10.650471	42.65	RMS	37.7	-95.2	-44.73	-59.58	-40	-19.58	V
14.200874	43.91	RMS	39.4	-95.2	-43.74	-55.63	-40	-15.63	H
14.200874	43.39	RMS	39.4	-95.2	-43.74	-56.15	-40	-16.15	V
Mid Channel, 3625MHz									
7.217202	41.91	RMS	35.6	-95.2	-44.58	-62.27	-40	-22.27	H
7.217669	41.28	RMS	35.6	-95.2	-44.59	-62.91	-40	-22.91	V
10.845072	42.83	RMS	37.8	-95.2	-44.84	-59.41	-40	-19.41	H
10.845072	43.72	RMS	37.8	-95.2	-44.84	-58.52	-40	-18.52	V
14.060874	43.14	RMS	39.4	-95.2	-43.5	-56.16	-40	-16.16	H
14.060874	43.29	RMS	39.4	-95.2	-43.5	-56.01	-40	-16.01	V
High Channel, 3690MHz									
7.360469	41.5	RMS	35.5	-95.2	-44.84	-63.04	-40	-23.04	H
7.360469	41.45	RMS	35.5	-95.2	-44.84	-63.09	-40	-23.09	V
11.040605	42.92	RMS	37.9	-95.2	-44.77	-59.15	-40	-19.15	H
11.039672	43.39	RMS	37.9	-95.2	-44.78	-58.69	-40	-18.69	V
14.720274	42.29	RMS	39	-95.2	-42.96	-56.87	-40	-16.87	H
14.720274	42.93	RMS	39	-95.2	-42.96	-56.23	-40	-16.23	V

BPSK 5G NR n48 (40.0MHZ BANDWIDTH)

Project #:	4790592295
Date:	06/29/2023
Test Engineer:	32545
Configuration:	EUT only
Mode	n48 BPSK 40MHz
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	81886 ACF (dB) 3mH	T1792 3400-3800MHz BRF	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 3570MHz										
7.140356	19.23	RMS	35.6	.6	-95.2	-19.84	-59.61	-40	-19.61	H
7.140356	18.13	RMS	35.6	.6	-95.2	-19.84	-60.71	-40	-20.71	V
10.710300	17.24	RMS	37.9	.5	-95.2	-16.24	-55.80	-40	-15.80	H
10.710741	16.98	RMS	37.9	.5	-95.2	-16.23	-56.05	-40	-16.05	V
14.280684	17.01	RMS	39.4	.7	-95.2	-15.06	-53.15	-40	-13.15	H
14.281125	16.51	RMS	39.4	.7	-95.2	-15.07	-53.66	-40	-13.66	V
Mid Channel, 3625MHz										
7.250072	18.26	RMS	35.6	.6	-95.2	-19.69	-60.43	-40	-20.43	H
7.250072	18.58	RMS	35.6	.6	-95.2	-19.69	-60.11	-40	-20.11	V
10.875094	16.91	RMS	37.9	.5	-95.2	-15.89	-55.78	-40	-15.78	H
10.875094	17.23	RMS	37.9	.5	-95.2	-15.89	-55.46	-40	-15.46	V
14.500116	16.54	RMS	39.7	.8	-95.2	-15.63	-53.79	-40	-13.79	H
14.500116	17.11	RMS	39.7	.8	-95.2	-15.63	-53.22	-40	-13.22	V
High Channel, 3680MHz										
7.360228	18.13	RMS	35.6	.7	-95.2	-19.39	-60.16	-40	-20.16	H
7.360228	17.93	RMS	35.6	.7	-95.2	-19.39	-60.36	-40	-20.36	V
11.039888	16.63	RMS	37.9	.6	-95.2	-15.69	-55.76	-40	-15.76	H
11.039888	16.83	RMS	37.9	.6	-95.2	-15.69	-55.56	-40	-15.56	V
14.720428	15.76	RMS	40	.9	-95.2	-14.79	-53.33	-40	-13.33	H
14.719988	16.25	RMS	40	.9	-95.2	-14.8	-52.85	-40	-12.85	V

10.5.2. 5G NR n77 (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 #:	4790592295
Date:	07/24/2023
Test Engineer:	26120
Configuration:	EUT only
Mode	N77 BPSK 100MHz
Chamber #:	01-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	200786 ACF (dB/m)	T1792 3400-3800MHz BRF	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Mid Channel, 3500MHz										
6.998795	37.64	Pk	35.7	.5	-95.2	-27.39	-48.75	-13	-35.75	H
6.998627	37.83	Pk	35.7	.5	-95.2	-27.40	-48.57	-13	-35.57	V
10.500289	35.42	Pk	37.8	.6	-95.2	-24.76	-46.14	-13	-33.14	H
10.498634	35.38	Pk	37.8	.6	-95.2	-24.85	-46.27	-13	-33.27	V
14.002005	31.93	Pk	39	.7	-95.2	-20.47	-44.04	-13	-31.04	H
14.000199	32.1	Pk	39	.7	-95.2	-20.45	-43.85	-13	-30.85	V

10.5.3. 5G NR n77 (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 #:	4790592295
Date:	04/27/2023
Test Engineer:	19226
Configuration:	EUT only
Mode	N77 BPSK 100MHz
Chamber #:	05-RDE-D

Frequency (GHz)	Meter Reading (dBuV)	Det	80402 ACF(dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 3750MHz									
7.500330	52.6	Pk	35.8	-95.2	-46.2	-53.00	-13	-40.00	H
7.500330	53.3	Pk	35.8	-95.2	-46.2	-52.30	-13	-39.30	V
11.250636	51.27	Pk	38.1	-95.2	-43.83	-49.66	-13	-36.66	H
11.250636	50.52	Pk	38.1	-95.2	-43.83	-50.41	-13	-37.41	V
15.000543	50.88	Pk	39.8	-95.2	-43.36	-47.88	-13	-34.88	H
15.000543	50.64	Pk	39.8	-95.2	-43.36	-48.12	-13	-35.12	V
Mid Channel, 3840MHz									
7.680775	54.19	Pk	35.8	-95.2	-45.94	-51.15	-13	-38.15	H
7.680775	51.17	Pk	35.8	-95.2	-45.94	-54.17	-13	-41.17	V
11.520307	49.76	Pk	38.3	-95.2	-43.47	-50.61	-13	-37.61	H
11.520307	50.36	Pk	38.3	-95.2	-43.47	-50.01	-13	-37.01	V
15.360636	50.66	Pk	40.2	-95.2	-42.56	-46.90	-13	-33.90	H
15.360636	50.7	Pk	40.2	-95.2	-42.56	-46.86	-13	-33.86	V
High Channel, 3930MHz									
7.860822	53.37	Pk	35.7	-95.2	-45.69	-51.82	-13	-38.82	H
7.860822	52.78	Pk	35.7	-95.2	-45.69	-52.41	-13	-39.41	V
11.790377	51.32	Pk	38.5	-95.2	-43.49	-48.87	-13	-35.87	H
11.790377	49.81	Pk	38.5	-95.2	-43.49	-50.38	-13	-37.38	V
15.72033	50.49	Pk	40.6	-95.2	-42.73	-46.84	-13	-33.84	H
15.72033	49.73	Pk	40.6	-95.2	-42.73	-47.60	-13	-34.60	V

10.6. FIELD STRENGTH OF SPURIOUS RADIATION, ANT8

TEST PROCEDURE

KDB 971168 D01 v03r01/D02 v02r02

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

RESULT

10.6.1. LTE BAND 48 AND 5G NR n48

LIMITS

FCC: §96.41

(e) 3.5 GHz Emissions and Interference Limits—

(2) Additional protection levels. Notwithstanding paragraph (d)(1) of this section, the conducted power of any emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.

QPSK LTE BAND 48 (20.0MHZ BANDWIDTH)

Project #:	4790592295
Date:	07/6/2023
Test Engineer:	32186
Configuration:	EUT only
Mode	LTE 48 QPSK 20MHz
Chamber #:	04-RDE-Q

Frequency (GHz)	Meter Reading (dBuV)	Det	Horn Antenna ACF(dB)	T1792 3400-3800MHz BRF	EIRP CF	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 3560MHz									
7.100536	41.18	RMS	35.6	-95.2	-44.97	-63.39	-40	-23.39	H
7.100069	41.15	RMS	35.6	-95.2	-44.97	-63.42	-40	-23.42	V
10.650471	42.59	RMS	37.7	-95.2	-44.73	-59.64	-40	-19.64	H
10.650005	42.56	RMS	37.7	-95.2	-44.76	-59.70	-40	-19.70	V
14.200407	42.97	RMS	39.4	-95.2	-43.73	-56.56	-40	-16.56	H
14.200407	43.48	RMS	39.4	-95.2	-43.73	-56.05	-40	-16.05	V
Mid Channel, 3625MHz									
7.230736	41.04	RMS	35.6	-95.2	-44.6	-63.16	-40	-23.16	H
7.230736	41.12	RMS	35.6	-95.2	-44.6	-63.08	-40	-23.08	V
10.845538	43.62	RMS	37.7	-95.2	-44.85	-58.73	-40	-18.73	H
10.845072	42.7	RMS	37.8	-95.2	-44.84	-59.54	-40	-19.54	V
14.460341	43.4	RMS	39.3	-95.2	-43.58	-56.08	-40	-16.08	H
14.460341	43.34	RMS	39.3	-95.2	-43.58	-56.14	-40	-16.14	V
High Channel, 3690MHz									
7.360936	41.27	RMS	35.5	-95.2	-44.85	-63.28	-40	-23.28	H
7.360469	40.55	RMS	35.5	-95.2	-44.84	-63.99	-40	-23.99	V
11.041072	43	RMS	37.9	-95.2	-44.77	-59.07	-40	-19.07	H
11.040138	43.05	RMS	37.9	-95.2	-44.77	-59.02	-40	-19.02	V
14.720274	42.94	RMS	39	-95.2	-42.96	-56.22	-40	-16.22	H
14.720274	42.72	RMS	39	-95.2	-42.96	-56.44	-40	-16.44	V

BPSK 5G NR n48 (40.0MHZ BANDWIDTH)

Project #:	4790592295
Date:	07/6/2023
Test Engineer:	32545
Configuration:	EUT only
Mode	N48 BPSK 40MHz
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	200786 ACF (dB/m)	T1792 3400-3800MHz BRF	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 3570MHz										
7.139916	23.72	RMS	35.7	.6	-95.2	-27.16	-62.34	-40	-22.34	H
7.140356	23.36	RMS	35.7	.6	-95.2	-27.17	-62.71	-40	-22.71	V
10.710741	21.27	RMS	37.7	.5	-95.2	-24.01	-59.74	-40	-19.74	H
10.710741	21.58	RMS	37.7	.5	-95.2	-24.01	-59.43	-40	-19.43	V
14.280684	19.54	RMS	39.4	.7	-95.2	-20.15	-55.71	-40	-15.71	H
14.280684	19.56	RMS	39.4	.7	-95.2	-20.15	-55.69	-40	-15.69	V
Mid Channel, 3625MHz										
7.250072	22.95	RMS	35.8	.6	-95.2	-26.86	-62.71	-40	-22.71	H
7.250072	23.27	RMS	35.8	.6	-95.2	-26.86	-62.39	-40	-22.39	V
10.875534	21.62	RMS	37.7	.5	-95.2	-24.05	-59.43	-40	-19.43	H
10.875975	20.76	RMS	37.7	.5	-95.2	-24.02	-60.26	-40	-20.26	V
14.500116	18.35	RMS	39.7	.8	-95.2	-19.99	-56.34	-40	-16.34	H
14.500116	19.06	RMS	39.7	.8	-95.2	-19.99	-55.63	-40	-15.63	V
High Channel, 3680MHz										
7.359788	23.13	RMS	35.8	.7	-95.2	-27.14	-62.71	-40	-22.71	H
7.359788	23.46	RMS	35.8	.7	-95.2	-27.14	-62.38	-40	-22.38	V
11.040328	20.5	RMS	37.8	.6	-95.2	-23.46	-59.76	-40	-19.76	H
11.040328	21.01	RMS	37.8	.6	-95.2	-23.46	-59.25	-40	-19.25	V
14.720428	18.63	RMS	40	.9	-95.2	-19.98	-55.65	-40	-15.65	H
14.720428	18.4	RMS	40	.9	-95.2	-19.98	-55.88	-40	-15.88	V

10.6.2. 5G NR n77 (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 #:	4790592295
Date:	07/24/2023
Test Engineer:	26120
Configuration:	EUT only
Mode	N77 BPSK 100MHz
Chamber #:	01-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	200786 ACF (dB/m)	T1792 3400-3800MHz BRF	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Mid Channel, 3500MHz										
7.002302	37.26	Pk	35.7	.5	-95.2	-27.38	-49.12	-13	-36.12	H
7.000305	37.24	Pk	35.7	.5	-95.2	-27.4	-49.16	-13	-36.16	V
10.500655	36.43	Pk	37.8	.6	-95.2	-24.79	-45.16	-13	-32.16	H
10.500240	35.78	Pk	37.8	.6	-95.2	-24.75	-45.77	-13	-32.77	V
14.007709	32.34	Pk	39	.7	-95.2	-20.45	-43.61	-13	-30.61	H
13.909379	32.62	Pk	38.9	.7	-95.2	-19.87	-42.85	-13	-29.85	V

10.6.3. 5G NR n77 (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 #:	4790592295
Date:	07/07/2023
Test Engineer:	32545
Configuration:	EUT only
Mode	N77 BPSK 100MHz
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	81886 ACF (dB) 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 3750MHz									
7.500000	29.47	Pk	35.7	-95.2	-18.44	-48.47	-13	-35.47	H
7.500500	29.35	Pk	35.7	-95.2	-18.44	-48.59	-13	-35.59	V
11.250500	27.12	Pk	37.8	-95.2	-15.38	-45.66	-13	-32.66	H
11.250500	25.4	Pk	37.8	-95.2	-15.38	-47.38	-13	-34.38	V
15.001000	27.28	Pk	39.9	-95.2	-14.46	-42.48	-13	-29.48	H
15.001000	27.05	Pk	39.9	-95.2	-14.46	-42.71	-13	-29.71	V
Mid Channel, 3840MHz									
7.680500	28.62	Pk	35.8	-95.2	-18.08	-48.86	-13	-35.86	H
7.680500	30.52	Pk	35.8	-95.2	-18.08	-46.96	-13	-33.96	V
11.520500	27.21	Pk	37.9	-95.2	-15.63	-45.72	-13	-32.72	H
11.520500	27.79	Pk	37.9	-95.2	-15.63	-45.14	-13	-32.14	V
15.361000	26.34	Pk	40.2	-95.2	-14.59	-43.25	-13	-30.25	H
15.361000	26.45	Pk	40.2	-95.2	-14.59	-43.14	-13	-30.14	V
High Channel, 3930MHz									
7.860500	29.71	Pk	35.8	-95.2	-18.99	-48.68	-13	-35.68	H
7.860500	30.07	Pk	35.8	-95.2	-18.99	-48.32	-13	-35.32	V
11.790000	27.61	Pk	38.3	-95.2	-15.4	-44.69	-13	-31.69	H
11.790000	26.91	Pk	38.3	-95.2	-15.4	-45.39	-13	-32.39	V
15.721000	26.39	Pk	40.5	-95.2	-13.9	-42.21	-13	-29.21	H
15.720500	26.73	Pk	40.5	-95.2	-13.89	-41.86	-13	-28.86	V

10.7. FIELD STRENGTH OF SPURIOUS RADIATION, ANT9

TEST PROCEDURE

KDB 971168 D01 v03r01/D02 v02r02

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

RESULTS

10.7.1. LTE BAND 48 AND 5G NR n48

LIMITS

FCC: §96.41

(e) 3.5 GHz Emissions and Interference Limits—

(2) Additional protection levels. Notwithstanding paragraph (d)(1) of this section, the conducted power of any emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.

QPSK LTE BAND 48 (20.0MHZ BANDWIDTH)

Project #:	4790592295
Date:	07/5/2023
Test Engineer:	32186
Configuration:	EUT only
Mode	LTE48 QPSK 20MHz
Chamber #:	04-RDE-Q

Frequency (GHz)	Meter Reading (dBuV)	Det	84796 ACF (dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 3560MHz									
7.100069	42.35	RMS	35.6	-95.2	-44.97	-62.22	-40	-22.22	H
7.100069	42.34	RMS	35.6	-95.2	-44.97	-62.23	-40	-22.23	V
10.650938	44.2	RMS	37.7	-95.2	-44.7	-58.00	-40	-18.00	H
10.650938	44.19	RMS	37.7	-95.2	-44.7	-58.01	-40	-18.01	V
14.200874	44.53	RMS	39.4	-95.2	-43.74	-55.01	-40	-15.01	H
14.200407	44.51	RMS	39.4	-95.2	-43.73	-55.02	-40	-15.02	V
Mid Channel, 3625MHz									
7.230269	42.13	RMS	35.6	-95.2	-44.61	-62.08	-40	-22.08	H
7.230269	42.15	RMS	35.6	-95.2	-44.61	-62.06	-40	-22.06	V
10.845538	44.35	RMS	37.7	-95.2	-44.85	-58.00	-40	-18.00	H
10.845072	44.32	RMS	37.8	-95.2	-44.84	-57.92	-40	-17.92	V
14.460341	44.63	RMS	39.3	-95.2	-43.58	-54.85	-40	-14.85	H
14.460341	44.66	RMS	39.3	-95.2	-43.58	-54.82	-40	-14.82	V
High Channel, 3690MHz									
7.360469	42.35	RMS	35.5	-95.2	-44.84	-62.19	-40	-22.19	H
7.360469	42.35	RMS	35.5	-95.2	-44.84	-62.19	-40	-22.19	V
11.040605	43.68	RMS	37.9	-95.2	-44.77	-58.39	-40	-18.39	H
11.040605	43.68	RMS	37.9	-95.2	-44.77	-58.39	-40	-18.39	V
14.719808	43.59	RMS	39	-95.2	-42.97	-55.58	-40	-15.58	H
14.720274	43.64	RMS	39	-95.2	-42.96	-55.52	-40	-15.52	V

BPSK 5G NR n48 (40.0MHZ BANDWIDTH)

Project #:	4790592295
Date:	07/6/2023
Test Engineer:	32545
Configuration:	EUT only
Mode	N48 BPSK 40MHz
Chamber #:	01-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	200786 ACF (dB/m)	T1792 3400-3800MHz BRF	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 3570MHz										
7.139916	23.4	RMS	35.7	.6	-95.2	-27.16	-62.66	-40	-22.66	H
7.140356	23.3	RMS	35.7	.6	-95.2	-27.17	-62.77	-40	-22.77	V
10.710300	21.4	RMS	37.7	.5	-95.2	-24.01	-59.61	-40	-19.61	H
10.711181	21.55	RMS	37.7	.5	-95.2	-24.00	-59.45	-40	-19.45	V
14.280244	19.21	RMS	39.4	.7	-95.2	-20.27	-56.16	-40	-16.16	H
14.280244	19.61	RMS	39.4	.7	-95.2	-20.27	-55.76	-40	-15.76	V
Mid Channel, 3625MHz										
7.250072	23.39	RMS	35.8	.6	-95.2	-26.86	-62.27	-40	-22.27	H
7.250072	23.41	RMS	35.8	.6	-95.2	-26.86	-62.25	-40	-22.25	V
10.875094	21.46	RMS	37.7	.5	-95.2	-24.08	-59.62	-40	-19.62	H
10.875094	21.08	RMS	37.7	.5	-95.2	-24.08	-60.00	-40	-20.00	V
14.500116	18.9	RMS	39.7	.8	-95.2	-19.99	-55.79	-40	-15.79	H
14.500116	18.65	RMS	39.7	.8	-95.2	-19.99	-56.04	-40	-16.04	V
High Channel, 3680MHz										
7.360228	22.69	RMS	35.8	.7	-95.2	-27.16	-63.17	-40	-23.17	H
7.360228	22.96	RMS	35.8	.7	-95.2	-27.16	-62.90	-40	-22.90	V
11.040328	20.98	RMS	37.8	.6	-95.2	-23.46	-59.28	-40	-19.28	H
11.040769	20.35	RMS	37.8	.6	-95.2	-23.58	-60.03	-40	-20.03	V
14.720869	18.87	RMS	40	.9	-95.2	-19.98	-55.41	-40	-15.41	H
14.720869	18.75	RMS	40	.9	-95.2	-19.98	-55.53	-40	-15.53	V

10.7.2. 5G NR n77 (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 #:	4790592295
Date:	07/6/2023
Test Engineer:	32545
Configuration:	EUT only
Mode	n77 BPSK 100MHz
Chamber #:	01-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	200786 ACF (dB/m)	T1792 3400-3800MHz BRF	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Mid Channel, 3500MHz										
6.998710	37.37	Pk	35.7	.5	-95.2	-27.40	-49.03	-13	-36.03	H
6.999435	37.19	Pk	35.7	.5	-95.2	-27.41	-49.22	-13	-36.22	V
10.501602	35.8	Pk	37.8	.6	-95.2	-24.81	-45.81	-13	-32.81	H
10.499635	35.41	Pk	37.8	.6	-95.2	-24.76	-46.15	-13	-33.15	V
14.001469	31.98	Pk	39	.7	-95.2	-20.47	-43.99	-13	-30.99	H
14.000079	31.92	Pk	39	.7	-95.2	-20.45	-44.03	-13	-31.03	V

10.7.3. 5G NR n77 (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 #:	4790592295
Date:	07/8/2023
Test Engineer:	32545
Configuration:	EUT only
Mode	n77 BPSK 100MHz
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	81886 ACF (dB) 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 3750MHz									
7.500500	28.13	Pk	35.7	-95.2	-18.44	-49.81	-13	-36.81	H
7.500500	30.1	Pk	35.7	-95.2	-18.44	-47.84	-13	-34.84	V
11.251000	26.72	Pk	37.8	-95.2	-15.38	-46.06	-13	-33.06	H
11.251000	26.9	Pk	37.8	-95.2	-15.38	-45.88	-13	-32.88	V
15.000500	26.68	Pk	39.9	-95.2	-14.44	-43.06	-13	-30.06	H
15.000500	27.48	Pk	39.9	-95.2	-14.44	-42.26	-13	-29.26	V
Mid Channel, 3840MHz									
7.680000	31.9	Pk	35.8	-95.2	-18.08	-45.58	-13	-32.58	H
7.680000	29.91	Pk	35.8	-95.2	-18.08	-47.57	-13	-34.57	V
11.520000	26.24	Pk	37.9	-95.2	-15.64	-46.7	-13	-33.7	H
11.520000	27.57	Pk	37.9	-95.2	-15.64	-45.37	-13	-32.37	V
15.360500	26.98	Pk	40.2	-95.2	-14.6	-42.62	-13	-29.62	H
15.360500	26.9	Pk	40.2	-95.2	-14.6	-42.7	-13	-29.7	V
High Channel, 3930MHz									
7.860000	29.75	Pk	35.8	-95.2	-19	-48.65	-13	-35.65	H
7.860000	28.95	Pk	35.8	-95.2	-19	-49.45	-13	-36.45	V
11.790500	26.62	Pk	38.3	-95.2	-15.41	-45.69	-13	-32.69	H
11.790000	27.27	Pk	38.3	-95.2	-15.4	-45.03	-13	-32.03	V
15.721000	26.73	Pk	40.5	-95.2	-13.9	-41.87	-13	-28.87	H
15.720000	25.89	Pk	40.5	-95.2	-13.87	-42.68	-13	-29.68	V

11. SETUP PHOTOS

Please refer to 14523772-EP1V1 for Setup Photo Report for setup photos.

END OF REPORT