

9.4.7. 5G NR n26 (BPSK 20MHz BANDWIDTH, FCC PART 22)

Test Engineer ID:	27700	Test Date:	2025-03-03
-------------------	-------	------------	------------

Band	26	Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		824	849		2.5	
		Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)		Frequency Stability (ppm)	Within Authorized Frequency Block (Hz)
Temperature	Voltage					
Normal (20°C)	Normal	824.5189	847.3828			
Extreme (50°C)		824.5189	847.3828	3.6	0.004	Yes
Extreme (40°C)		824.5189	847.3828	3.9	0.005	Yes
Extreme (30°C)		824.5189	847.3828	-3.5	-0.004	Yes
Extreme (10°C)		824.5189	847.3828	3.9	0.005	Yes
Extreme (0°C)		824.5189	847.3828	4.6	0.005	Yes
Extreme (-10°C)		824.5189	847.3828	-4.2	-0.005	Yes
Extreme (-20°C)		824.5189	847.3828	3.5	0.004	Yes
Extreme (-30°C)		824.5189	847.3828	-3.8	-0.005	Yes
20°C	15%	824.5189	847.3828	-3.0	-0.004	Yes
	-15%	824.5189	847.3828	4.2	0.005	Yes
	End Point Voltage	824.5189	847.3828	3.7	0.004	Yes

9.5. PEAK-TO-AVERAGE POWER RATIO

LIMIT

FCC: §22.913 (d)

The peak-to-average ratio (PAR) of the transmission must not exceed 13 dB.

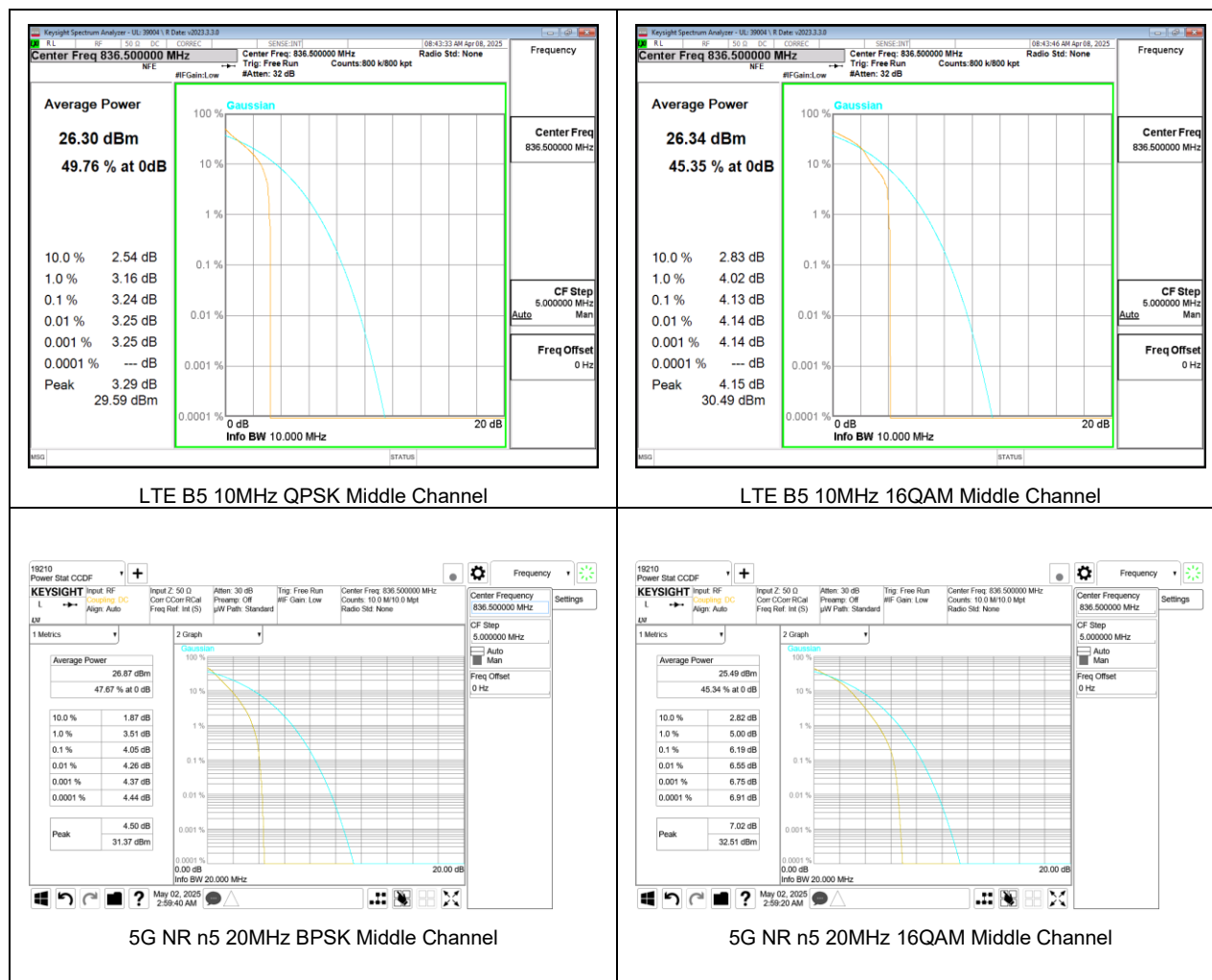
ISED: RSS132§5.4

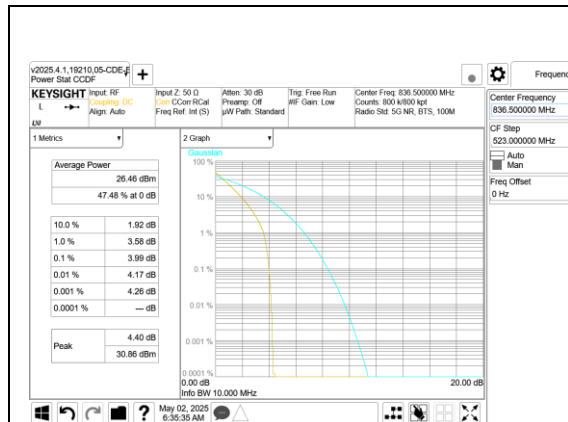
In addition, the peak-to-average power ratio (PAPR) of the transmitter shall not exceed 13 dB for more than 0.1% of the time using a signal corresponding to the highest PAPR during periods of continuous transmission.

RESULT

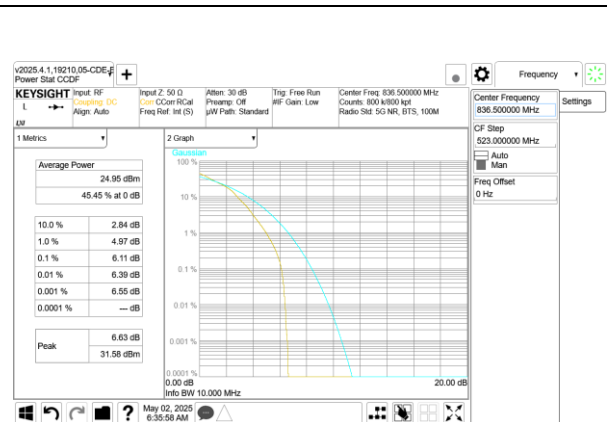
Antenna 3 was used to measure as the worst case; full resource block (FRB) for each bandwidth was used to measure as the worst case. The results from all CCDF measurements are passed with 13dB peak-to-average power ratio criteria.

Example Plots: FULL RB

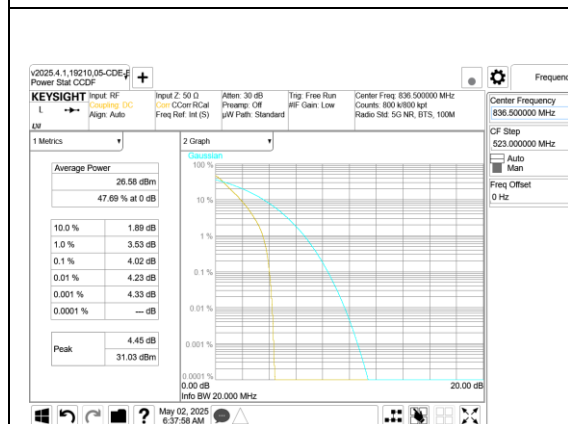




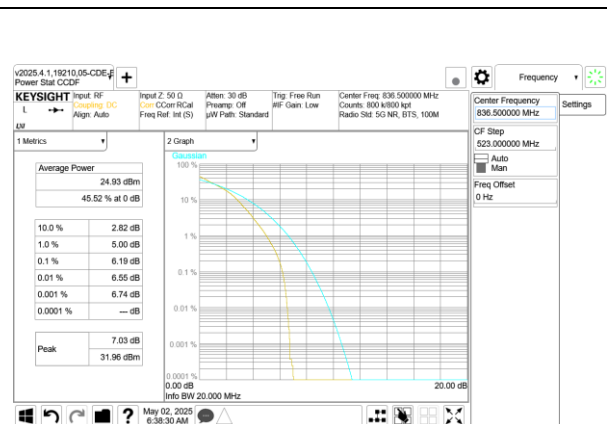
LTE B26 (FCC PART 22) 10MHz QPSK Middle Channel



LTE B26 (FCC PART 22) 10MHz 16QAM Middle Channel



5G NR n5 (FCC PART 22) 20MHz BPSK Middle Channel



5G NR n5 (FCC PART 22) 20MHz 16QAM Middle Channel

9.5.1. LTE BAND 5

Test Engineer ID:	39004	Test Date:	2025-05-01
--------------------------	-------	-------------------	------------

Band	Bandwidth (MHz)	Frequency (MHz)	RB Allocation	RB OffSet	Modulation	Conducted Power (dBm)		Peak-to-Average Power Ratio (dB)
						Peak	Average	
LTE Band 5	1.4MHz	836.5	6	0	QPSK	30.11	26.38	3.73
					16QAM	30.66	26.35	4.31
	3MHz		15	0	QPSK	29.64	26.3	3.34
					16QAM	30.88	26.43	4.45
	5MHz		25	0	QPSK	29.7	26.32	3.38
					16QAM	30.98	26.52	4.46
	10MHz		50	0	QPSK	29.59	26.3	3.29
					16QAM	30.49	26.34	4.15
Duty Cycle Correction Factor (dB) =			0.00					
Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor								

9.5.2. 5G NR n5

Test Engineer ID:	19210	Test Date:	2025-05-01
--------------------------	-------	-------------------	------------

Band	Bandwidth (MHz)	Frequency (MHz)	RB Allocation	RB OffSet	Modulation	Conducted Power (dBm)		Peak-to-Average Power Ratio (dB)
						Peak	Average	
5G NR n5	5MHz	836.5	25	0	BPSK	31.18	26.73	4.45
					16QAM	32.33	25.57	6.76
	10MHz		50	0	BPSK	30.88	26.77	4.11
					16QAM	32.17	25.51	6.66
	15MHz		50	0	BPSK	31.31	26.73	4.58
					16QAM	35.50	25.47	10.03
	20MHz		75	0	BPSK	31.37	26.87	4.50
					16QAM	32.51	25.49	7.02
Duty Cycle Correction Factor (dB) =			0.00					
Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor								

9.5.3. ULCA LTE BAND 5

Test Engineer ID:	19210	Test Date:	2025-05-05
--------------------------	-------	-------------------	------------

Band	Bandwidth (MHz)	PCC f (MHz)	SCC1 f (MHz)	Modulation	Conducted Power (dBm)		Peak-to-Average Power Ratio (dB)
					Peak	Average	
ULCA LTE Band 5	3MHz / 5MHz	834.0	837.9	QPSK	34.31	27.50	6.81
				16QAM	34.30	26.98	7.32
	5 MHz / 3MHz	835.0	838.9	QPSK	33.92	27.30	6.62
				16QAM	33.89	26.59	7.30
	5MHz / 10MHz	831.6	838.8	QPSK	32.28	26.43	5.85
				16QAM	32.26	25.31	6.95
	10MHz / 5MHz	834.3	841.5	QPSK	30.68	26.03	4.65
				16QAM	30.91	23.97	6.94
	10MHz / 10MHz	831.5	841.4	QPSK	32.17	26.24	5.93
				16QAM	32.65	25.26	7.39
Duty Cycle Correction Factor (dB) =			0.00				
Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor							

9.5.4. LTE BAND 26 (FCC PART 90S)

Test Engineer ID:	39004	Test Date:	2025-04-08
-------------------	-------	------------	------------

Band	Bandwidth (MHz)	Frequency (MHz)	RB Allocation	RB OffSet	Modulation	Conducted Power (dBm)		Peak-to-Average Power Ratio (dB)
						Peak	Average	
LTE Band 26 (FCC Part 90s)	1.4MHz	819.0	6	0	QPSK	30.76	26.21	4.55
					16QAM	31.64	26.31	5.33
	3MHz		15	0	QPSK	29.76	26.28	3.48
					16QAM	30.93	26.43	4.50
	5MHz		25	0	QPSK	29.85	26.32	3.53
					16QAM	30.58	26.27	4.31
	10MHz		50	0	QPSK	29.54	26.25	3.29
					16QAM	31.22	26.58	4.64
Duty Cycle Correction Factor (dB) =			0.00					
Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor								

9.5.5. 5G NR n26 (FCC PART 90S)

Test Engineer ID:	19210	Test Date:	2025-05-01
-------------------	-------	------------	------------

Band	Bandwidth (MHz)	Frequency (MHz)	RB Allocation	RB OffSet	Modulation	Conducted Power (dBm)		Peak-to-Average Power Ratio (dB)
						Peak	Average	
5G NR n26 (FCC Part 90S)	5MHz	819.0	25	0	BPSK	30.72	26.46	4.26
					16QAM	31.55	24.95	6.60
	10MHz		50	0	BPSK	30.93	26.53	4.40
					16QAM	31.75	24.91	6.84
Duty Cycle Correction Factor (dB) =			0.00					
Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor								

9.5.6. LTE BAND 26 (FCC PART 22)

Test Engineer ID:	39004	Test Date:	2025-04-08
-------------------	-------	------------	------------

Band	Bandwidth (MHz)	Frequency (MHz)	RB Allocation	RB OffSet	Modulation	Conducted Power (dBm)		Peak-to-Average Power Ratio (dB)
						Peak	Average	
LTE Band 26 (FCC Part 22)	1.4MHz	836.5	6	0	QPSK	30.66	26.23	4.43
					16QAM	31.56	26.34	5.22
	3MHz		15	0	QPSK	29.79	26.3	3.49
					16QAM	30.89	26.53	4.36
	5MHz		25	0	QPSK	29.75	26.35	3.40
					16QAM	31.22	26.58	4.64
	10MHz		50	0	QPSK	29.54	26.25	3.29
					16QAM	30.77	26.35	4.42
Duty Cycle Correction Factor (dB) =			0.00					
Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor								

9.5.7. 5G NR n26 (FCC PART 22)

Test Engineer ID:	19210	Test Date:	2025-05-01
-------------------	-------	------------	------------

Band	Bandwidth (MHz)	Frequency (MHz)	RB Allocation	RB OffSet	Modulation	Conducted Power (dBm)		Peak-to-Average Power Ratio (dB)
						Peak	Average	
5G NR n26 (FCC Part 22)	5MHz	836.5	25	0	BPSK	30.80	26.43	4.37
					16QAM	31.55	24.89	6.66
	10MHz		50	0	BPSK	30.86	26.46	4.40
					16QAM	31.58	24.95	6.63
	15MHz		75	0	BPSK	30.77	26.4	4.37
					16QAM	31.83	24.88	6.95
	20MHz		100	0	BPSK	31.03	26.58	4.45
					16QAM	31.96	24.93	7.03
Duty Cycle Correction Factor (dB) =			0.00					
Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor								

10. RADIATED TEST RESULTS

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.

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.

RSS132§5.5

Equipment shall meet the unwanted emission limits specified below:

- (i) In the first 1.0 MHz band immediately outside and adjacent to each of the sub-bands specified in Section 5.1, the power of emissions per any 1% of the occupied bandwidth shall be attenuated below the transmitter output power P (dBW) by at least $43 + 10 \log(p)$ dB.
- (ii) After the first 1.0 MHz immediately outside and adjacent to each of the sub-bands, the power of emissions in any 100 kHz bandwidth shall be attenuated below the transmitter output power P (dBW) by at least $43 + 10 \log(p)$ dB. If the measurement is performed using 1% of the occupied bandwidth, power integration over 100 kHz is required.

p is the output power specified in watts.

Radiated measurement using the Field Strength Method

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

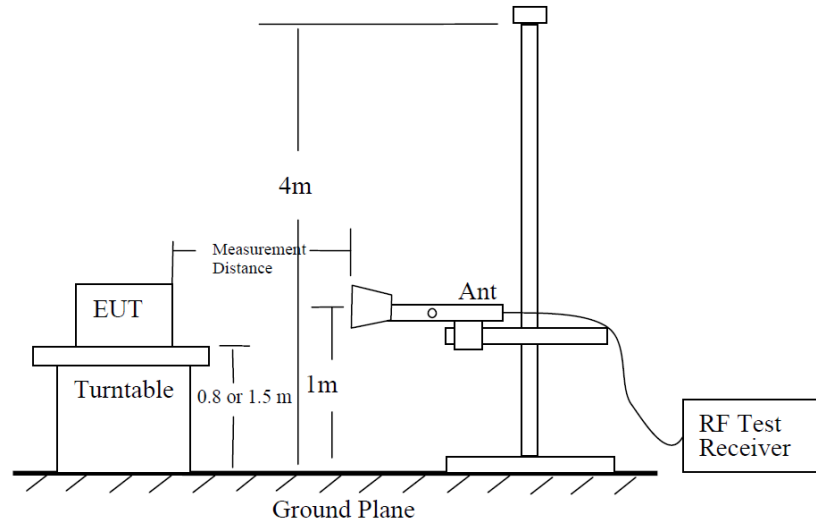


Figure 6—Test site-up for radiated ERP and/or EIRP measurements

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

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

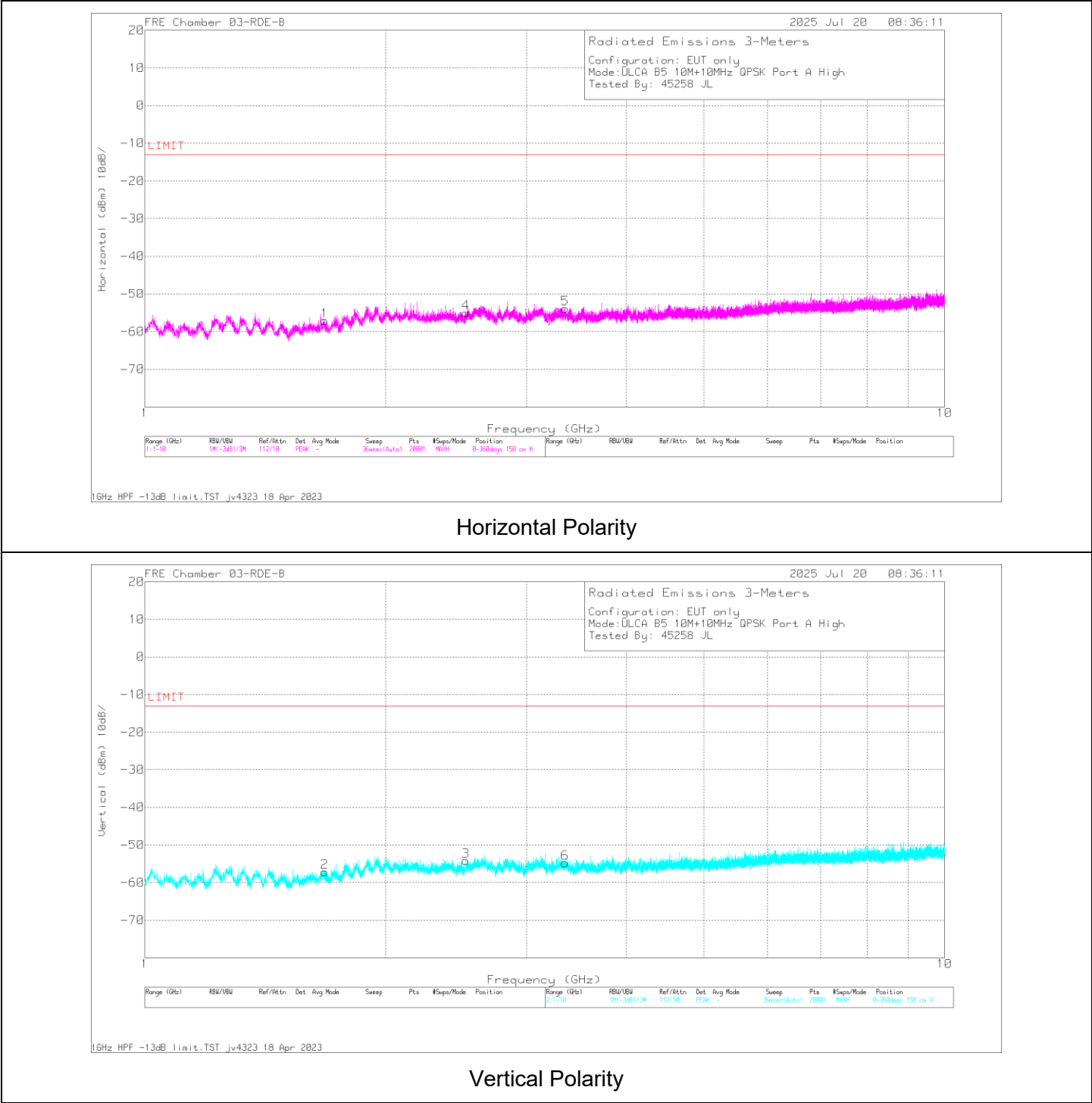
So, from d)

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

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

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

Example Plot



Trace Markers

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T962 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	EIRP CF	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
1.679050	58.78	Pk	29.00	-95.2	-49.70	-57.12	-13	-44.12	H
1.678150	58.8	Pk	29.00	-95.2	-49.79	-57.19	-13	-44.19	V
2.518300	58.15	Pk	32.10	-95.2	-50.10	-55.05	-13	-42.05	H
2.519650	58.91	Pk	32.10	-95.2	-50.04	-54.23	-13	-41.23	V
3.354400	55.97	Pk	32.70	-95.2	-47.34	-53.87	-13	-40.87	H
3.354850	55.09	Pk	32.70	-95.2	-47.39	-54.80	-13	-41.80	V

10.1. FIELD STRENGTH OF SPURIOUS RADIATION, ABOVE 1GHz

TEST PROCEDURE

KDB 971168 D01 /D02

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

RESULTS

10.1.1. LTE BAND 5

LTE BAND 5 (QPSK 10.0MHZ BANDWIDTH, ANT 3)

Date:	2025-07-24
Test Engineer:	45258
Configuration:	EUT Only
Mode:	LTE B5 10MHz QPSK ANT 3
Chamber #:	03-RDE-B

Frequency (MHz)	Meter Reading (dBuV)	Det	223084ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 829 MHz									
1.648900	62.67	Pk	28.9	-95.2	-49.6	-53.23	-13	-40.23	H
1.648900	59.45	Pk	28.9	-95.2	-49.6	-56.45	-13	-43.45	V
2.485000	57.96	Pk	31.9	-95.2	-49.9	-55.24	-13	-42.24	H
2.482750	59.09	Pk	31.9	-95.2	-49.93	-54.14	-13	-41.14	V
3.319750	56.06	Pk	32.8	-95.2	-47.8	-54.14	-13	-41.14	H
3.315250	56.22	Pk	32.8	-95.2	-47.93	-54.11	-13	-41.11	V
Mid Channel, 836.5MHz									
1.663750	60.54	Pk	29	-95.2	-49.7	-55.36	-13	-42.36	H
1.663750	61.58	Pk	29	-95.2	-49.7	-54.32	-13	-41.32	V
2.507500	58.31	Pk	32	-95.2	-50	-54.89	-13	-41.89	H
2.509750	57.79	Pk	32	-95.2	-50.03	-55.44	-13	-42.44	V
3.343150	55.93	Pk	32.7	-95.2	-47.5	-54.07	-13	-41.07	H
3.349450	56.79	Pk	32.7	-95.2	-47.55	-53.26	-13	-40.26	V
High Channel, 844MHz									
1.679050	60.10	Pk	29	-95.2	-49.7	-55.80	-13	-42.80	H
1.679050	62.76	Pk	29	-95.2	-49.7	-53.14	-13	-40.14	V
2.531800	58.47	Pk	32.2	-95.2	-50.1	-54.63	-13	-41.63	H
2.532250	58.69	Pk	32.2	-95.2	-50.1	-54.41	-13	-41.41	V
3.380050	55.80	Pk	32.7	-95.2	-47.4	-54.10	-13	-41.10	H
3.375100	55.16	Pk	32.7	-95.2	-47.3	-54.64	-13	-41.64	V

LTE BAND 5 (QPSK 10.0MHZ BANDWIDTH, ANT 2)

Date:	2025-07-12
Test Engineer:	32703
Configuration:	EUT Only
Mode:	LTE B5 10MHz QPSK ANT 3
Chamber #:	03-RDE-C

Frequency (MHz)	Meter Reading (dBuV)	Det	84797ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 829 MHz									
1.648900	58.79	Pk	28.5	-95.2	-47.73	-55.64	-13	-42.64	H
1.648900	57.92	Pk	28.5	-95.2	-47.73	-56.51	-13	-43.51	V
2.472400	54.48	Pk	32.3	-95.2	-47.42	-55.84	-13	-42.84	H
2.472400	55.15	Pk	32.3	-95.2	-47.42	-55.17	-13	-42.17	V
3.296350	52.8	Pk	33	-95.2	-45.57	-54.97	-13	-41.97	H
3.296350	51.88	Pk	33	-95.2	-45.57	-55.89	-13	-42.89	V
Mid Channel, 836.5MHz									
1.663750	57.85	Pk	28.7	-95.2	-47.67	-56.32	-13	-43.32	H
1.663750	56.75	Pk	28.7	-95.2	-47.67	-57.42	-13	-44.42	V
2.494450	53.45	Pk	32.4	-95.2	-47.20	-56.55	-13	-43.55	H
2.494450	53.83	Pk	32.4	-95.2	-47.20	-56.17	-13	-43.17	V
3.326500	52.7	Pk	32.9	-95.2	-45.30	-54.90	-13	-41.90	H
3.326500	52.49	Pk	32.9	-95.2	-45.30	-55.11	-13	-42.11	V
High Channel, 844MHz									
1.678600	54.74	Pk	28.9	-95.2	-47.63	-59.19	-13	-46.19	H
1.678600	57.71	Pk	28.9	-95.2	-47.63	-56.22	-13	-43.22	V
2.517400	53.18	Pk	32.3	-95.2	-47.12	-56.84	-13	-43.84	H
2.517400	53.31	Pk	32.3	-95.2	-47.12	-56.71	-13	-43.71	V
3.356200	51.6	Pk	32.9	-95.2	-45.20	-55.90	-13	-42.90	H
3.356200	52.07	Pk	32.9	-95.2	-45.20	-55.43	-13	-42.43	V

10.1.2. 5G NR n5

5G NR n5 (BPSK 20.0MHZ BANDWIDTH, ANT 3)

Date:	2025-05-14
Test Engineer:	45258
Configuration:	EUT Only
Mode:	FR1 N5 20MHz BPSK ANT 3
Chamber #:	03-RDE-B

Frequency (MHz)	Meter Reading (dBuV)	Det	223084ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 834 MHz									
1.667800	59.79	Pk	29.00	-95.2	-49.70	-56.11	-13	-43.11	H
1.670950	58.75	Pk	29.00	-95.2	-49.60	-57.05	-13	-44.05	V
2.500750	57.43	Pk	32.00	-95.2	-50.00	-55.77	-13	-42.77	H
2.501200	57.22	Pk	32.00	-95.2	-50.00	-55.98	-13	-42.98	V
3.335950	56.03	Pk	32.70	-95.2	-47.51	-53.98	-13	-40.98	H
3.337750	55.39	Pk	32.70	-95.2	-47.63	-54.74	-13	-41.74	V
Mid Channel, 836.5MHz									
1.676800	58.49	Pk	29.00	-95.2	-49.7	-57.41	-13	-44.41	H
1.673650	58.67	Pk	29.00	-95.2	-49.6	-57.13	-13	-44.13	V
2.508850	56.5	Pk	32.00	-95.2	-50.09	-56.79	-13	-43.79	H
2.507950	58.03	Pk	32.00	-95.2	-50	-55.17	-13	-42.17	V
3.345850	55.11	Pk	32.70	-95.2	-47.52	-54.91	-13	-41.91	H
3.346750	56.05	Pk	32.70	-95.2	-47.43	-53.88	-13	-40.88	V
High Channel, 839MHz									
1.677700	58.26	Pk	29.00	-95.2	-49.77	-57.71	-13	-44.71	H
1.678600	58.70	Pk	29.00	-95.2	-49.74	-57.24	-13	-44.24	V
2.518750	58.39	Pk	32.10	-95.2	-50.1	-54.81	-13	-41.81	H
2.518300	58.84	Pk	32.10	-95.2	-50.1	-54.36	-13	-41.36	V
3.354850	56.07	Pk	32.70	-95.2	-47.39	-53.82	-13	-40.82	H
3.351250	57.70	Pk	32.70	-95.2	-47.55	-52.35	-13	-39.35	V

5G NR n5 (BPSK 20.0MHZ BANDWIDTH, ANT 2)

Date:	2025-07-25
Test Engineer:	32545
Configuration:	EUT Only
Mode:	FR1 N5 20Mhz BPSK ANT2
Chamber #:	03-RDE-B

Frequency (MHz)	Meter Reading (dBuV)	Det	223084 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 834 MHz									
1.661950	59.14	Pk	29.00	-95.2	-49.6	-56.66	-13	-43.66	H
1.668250	59.35	Pk	29.00	-95.2	-49.7	-56.55	-13	-43.55	V
2.473300	63.25	Pk	31.80	-95.2	-49.9	-50.05	-13	-37.05	H
2.473300	63.06	Pk	31.80	-95.2	-49.9	-50.24	-13	-37.24	V
3.341350	55.64	Pk	32.70	-95.2	-47.5	-54.36	-13	-41.36	H
3.331900	55.78	Pk	32.70	-95.2	-47.79	-54.51	-13	-41.51	V
Mid Channel, 836.5MHz									
1.663760	59.90	Pk	28.50	-95.2	-49.71	-56.51	-13	-43.51	H
1.663320	61.19	Pk	28.50	-95.2	-49.70	-55.21	-13	-42.21	V
2.495360	68.43	Pk	32.30	-95.2	-49.94	-44.41	-13	-31.41	H
2.495800	65.64	Pk	32.30	-95.2	-49.93	-47.19	-13	-34.19	V
3.308480	56.71	Pk	32.80	-95.2	-47.61	-53.3	-13	-40.30	H
3.298360	56.28	Pk	32.80	-95.2	-47.53	-53.65	-13	-40.65	V
High Channel, 839MHz									
1.668160	59.69	Pk	28.60	-95.2	-49.68	-56.59	-13	-43.59	H
1.669040	60.06	Pk	28.60	-95.2	-49.67	-56.21	-13	-43.21	V
2.502840	66.35	Pk	32.30	-95.2	-49.89	-46.44	-13	-33.44	H
2.503280	63.35	Pk	32.30	-95.2	-49.88	-49.43	-13	-36.43	V
3.351600	56.93	Pk	32.80	-95.2	-47.36	-52.83	-13	-39.83	H
3.364800	56.38	Pk	32.80	-95.2	-47.21	-53.23	-13	-40.23	V

10.1.3. ULCA LTE BAND 5

ULCA LTE BAND 5 (QPSK 10.0MHZ + 10.0MHZ BANDWIDTH, ANT 3)

Date:	2025-07-20
Test Engineer:	45258
Configuration:	EUT Only
Mode	ULCA B5 10+10MHz QPSK
Chamber #:	03-RDE-B

Frequency (MHz)	Meter Reading (dBuV)	Det	223084 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 829+838.9MHz									
1.668700	58.24	Pk	29.00	-95.2	-49.70	-57.66	-13	-44.66	H
1.669150	57.70	Pk	29.00	-95.2	-49.69	-58.19	-13	-45.19	V
2.503900	58.21	Pk	32.00	-95.2	-49.91	-54.9	-13	-41.90	H
2.499850	57.38	Pk	32.00	-95.2	-50.00	-55.82	-13	-42.82	V
3.334600	56.04	Pk	32.70	-95.2	-47.70	-54.16	-13	-41.16	H
3.335050	55.97	Pk	32.70	-95.2	-47.69	-54.22	-13	-41.22	V
Mid Channel, 831.6+841.5MHz									
1.672750	58.10	Pk	29.00	-95.2	-49.60	-57.7	-13	-44.70	H
1.670950	58.49	Pk	29.00	-95.2	-49.60	-57.31	-13	-44.31	V
2.509300	58.17	Pk	32.00	-95.2	-50.07	-55.1	-13	-42.10	H
2.508400	57.42	Pk	32.00	-95.2	-50.04	-55.82	-13	-42.82	V
3.340900	56.61	Pk	32.70	-95.2	-47.51	-53.4	-13	-40.40	H
3.344500	55.17	Pk	32.70	-95.2	-47.55	-54.88	-13	-41.88	V
High Channel, 834.1+844MHz									
1.679050	58.78	Pk	29.00	-95.2	-49.70	-57.12	-13	-44.12	H
1.678150	58.8	Pk	29.00	-95.2	-49.79	-57.19	-13	-44.19	V
2.518300	58.15	Pk	32.10	-95.2	-50.10	-55.05	-13	-42.05	H
2.519650	58.91	Pk	32.10	-95.2	-50.04	-54.23	-13	-41.23	V
3.354400	55.97	Pk	32.70	-95.2	-47.34	-53.87	-13	-40.87	H
3.354850	55.09	Pk	32.70	-95.2	-47.39	-54.80	-13	-41.80	V

ULCA LTE BAND 5 (QPSK 10.0MHZ + 10.0MHZ BANDWIDTH, ANT 2)

Date:	2025-05-01
Test Engineer:	32545
Configuration:	EUT Only
Mode	ULCA B5 10+10MHz QPSK
Chamber #:	03-RDE-A

Frequency (MHz)	Meter Reading (dBuV)	Det	226673 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 829+838.9MHz									
1.667720	59.16	Pk	28.6	-95.2	-49.10	-56.54	-13	-43.54	H
1.671240	59.59	Pk	28.6	-95.2	-49.10	-56.11	-13	-43.11	V
2.505920	58.28	Pk	32.2	-95.2	-49.01	-53.73	-13	-40.73	H
2.497560	57.76	Pk	32.3	-95.2	-49.10	-54.24	-13	-41.24	V
3.341480	56.04	Pk	32.8	-95.2	-46.85	-53.21	-13	-40.21	H
3.340600	56.53	Pk	32.8	-95.2	-46.80	-52.67	-13	-39.67	V
Mid Channel, 831.6+841.5MHz									
1.675200	58.83	Pk	28.7	-95.2	-49.10	-56.77	-13	-43.77	H
1.679160	58.95	Pk	28.7	-95.2	-49.02	-56.57	-13	-43.57	V
2.516480	58.15	Pk	32.2	-95.2	-49.00	-53.85	-13	-40.85	H
2.509000	58.18	Pk	32.2	-95.2	-49.10	-53.92	-13	-40.92	V
3.346320	55.28	Pk	32.8	-95.2	-46.77	-53.89	-13	-40.89	H
3.345000	55.36	Pk	32.8	-95.2	-46.80	-53.84	-13	-40.84	V
High Channel, 834.1+844MHz									
1.666156	61.05	Pk	28.6	-95.2	-49.10	-54.65	-13	-41.65	H
1.659379	68.48	Pk	28.5	-95.2	-49.10	-47.32	-13	-34.32	V
2.488971	68	Pk	32.3	-95.2	-49.10	-44	-13	-31.00	H
2.489172	68.68	Pk	32.3	-95.2	-49.10	-43.32	-13	-30.32	V
3.348960	55.71	Pk	32.8	-95.2	-46.70	-53.39	-13	-40.39	H
3.357320	55.08	Pk	32.8	-95.2	-46.63	-53.95	-13	-40.95	V

10.1.4. LTE BAND 26 (FCC PART 90S)

LTE BAND 26 (QPSK 10.0MHZ BANDWIDTH, ANT 3)

Date:	2025-05-23
Test Engineer:	28571
Configuration:	EUT Onlyt
Mode:	LTE B26 90s 10MHz
Chamber #:	03-RDE-B

Frequency (MHz)	Meter Reading (dBuV)	Det	223084 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Mid Channel, 819MHz									
1.638240	58.34	Pk	28.9	-95.2	-49.4	-57.36	-13	-44.36	H
1.641760	58.65	Pk	28.9	-95.2	-49.4	-57.05	-13	-44.05	V
2.452680	61.12	Pk	31.8	-95.2	-50.2	-52.48	-13	-39.48	H
2.461920	59.74	Pk	31.8	-95.2	-50.11	-53.77	-13	-40.77	V
3.293080	56.11	Pk	32.9	-95.2	-47.3	-53.49	-13	-40.49	H
3.291760	56.71	Pk	32.9	-95.2	-47.52	-53.11	-13	-40.11	V

LTE BAND 26 (QPSK 10.0MHZ BANDWIDTH, ANT 2)

Date:	2025-07-10
Test Engineer:	32703
Configuration:	EUT Onlyt
Mode:	LTE B26 90s 10MHz
Chamber #:	03-RDE-C

Frequency (MHz)	Meter Reading (dBuV)	Det	84797 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Mid Channel, 819MHz									
1.628120	55.43	Pk	28.2	-95.2	-47.91	-59.48	-13	-46.48	H
1.628120	54.42	Pk	28.2	-95.2	-47.91	-60.49	-13	-47.49	V
2.443880	71.45	Pk	32.2	-95.2	-48.49	-40.04	-13	-27.04	H
2.443880	69.31	Pk	32.2	-95.2	-48.49	-42.18	-13	-29.18	V
3.256560	52.70	Pk	33	-95.2	-45.69	-55.19	-13	-42.19	H
3.256560	51.51	Pk	33	-95.2	-45.69	-56.38	-13	-43.38	V

10.1.5. 5G NR n26 (FCC PART 90S)

5G NR n26 (BPSK 10.0MHZ BANDWIDTH, ANT 3)

Date:	2025-07-24
Test Engineer:	45258
Configuration:	EUT Only
Mode:	FR1 N26(90s) BPSK 10MHz
Chamber #:	03-RDE-B

Frequency (MHz)	Meter Reading (dBuV)	Det	223084 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Mid Channel, 819MHz									
1.626850	60.34	Pk	28.7	-95.2	-49.52	-55.68	-13	-42.68	H
1.653850	61.62	Pk	29	-95.2	-49.69	-54.27	-13	-41.27	V
2.454400	58.37	Pk	31.8	-95.2	-49.74	-54.77	-13	-41.77	H
2.457100	57.87	Pk	31.8	-95.2	-49.7	-55.23	-13	-42.23	V
3.279700	56.72	Pk	32.9	-95.2	-48.13	-53.71	-13	-40.71	H
3.276100a	56.24	Pk	32.9	-95.2	-48.1	-54.16	-13	-41.16	V

5G NR n26 (BPSK 10.0MHZ BANDWIDTH, ANT 2)

Date:	2025-03-31
Test Engineer:	32440
Configuration:	EUT Only
Mode:	FR1 N26(90s) BPSK 10MHz
Chamber #:	05-RDE-B

Frequency (MHz)	Meter Reading (dBuV)	Det	226672 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Mid Channel, 819MHz									
1.854100	60.99	Pk	30.8	-95.2	-49.08	-52.49	-13	-39.49	H
1.837000	61.16	Pk	30.6	-95.2	-49.06	-52.5	-13	-39.50	V
2.442700	61.4	Pk	32.2	-95.2	-49.21	-50.81	-13	-37.81	H
2.443150	60.79	Pk	32.2	-95.2	-49.21	-51.42	-13	-38.42	V
3.252250	56.46	Pk	32.8	-95.2	-47.42	-53.36	-13	-40.36	H
3.259450	55.71	Pk	32.8	-95.2	-47.44	-54.13	-13	-41.13	V

10.1.6. LTE BAND 26 (FCC PART 22)

LTE BAND 26 (QPSK 10.0MHZ BANDWIDTH, ANT 3)

Date:	2025-05-23
Test Engineer:	28571
Configuration:	EUT Only
Mode:	LTE B26(22h) BPSK 10MHz
Chamber #:	03-RDE-B

Frequency (MHz)	Meter Reading (dBuV)	Det	223084 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 829MHz									
1.658040	58.51	Pk	29	-95.2	-49.40	-57.09	-13	-44.09	H
1.654960	59.08	Pk	29	-95.2	-49.31	-56.43	-13	-43.43	V
2.501520	58.66	Pk	32	-95.2	-50.00	-54.54	-13	-41.54	H
2.496680	58.57	Pk	32	-95.2	-50.10	-54.73	-13	-41.73	V
3.326080	55.53	Pk	32.8	-95.2	-47.39	-54.26	-13	-41.26	H
3.334000	56.07	Pk	32.7	-95.2	-47.30	-53.73	-13	-40.73	V
Mid Channel, 836.5MHz									
1.666840	58.09	Pk	29	-95.2	-49.42	-57.53	-13	-44.53	H
1.655400	59.76	Pk	29	-95.2	-49.34	-55.78	-13	-42.78	V
2.513840	59.34	Pk	32	-95.2	-49.90	-53.76	-13	-40.76	H
2.508560	58.67	Pk	32	-95.2	-49.90	-54.43	-13	-41.43	V
3.341920	55.74	Pk	32.7	-95.2	-47.19	-53.95	-13	-40.95	H
3.331800	55.66	Pk	32.7	-95.2	-47.40	-54.24	-13	-41.24	V
High Channel, 844MHz									
1.680480	58.64	Pk	29.00	-95.2	-49.50	-57.06	-13	-44.06	H
1.669040	58.90	Pk	29.00	-95.2	-49.40	-56.7	-13	-43.70	V
2.521320	59.46	Pk	32.10	-95.2	-49.80	-53.44	-13	-40.44	H
2.531000	59.73	Pk	32.20	-95.2	-49.70	-52.97	-13	-39.97	V
3.376240	55.63	Pk	32.70	-95.2	-47.32	-54.19	-13	-41.19	H
3.377120	54.47	Pk	32.70	-95.2	-47.40	-55.43	-13	-42.43	V

LTE BAND 26 (QPSK 10.0MHZ BANDWIDTH, ANT 2)

Date:	2025-07-18
Test Engineer:	103479
Configuration:	EUT Only
Mode:	LTE B26(22h) BPSK 10MHz
Chamber #:	03-RDE-B

Frequency (MHz)	Meter Reading (dBuV)	Det	223084 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 829MHz									
1.657160	59.06	Pk	29.00	-95.2	-49.40	-56.54	-13	-43.54	H
1.670800	58.36	Pk	29.00	-95.2	-49.40	-57.24	-13	-44.24	V
2.473800	63.65	Pk	31.80	-95.2	-50.10	-49.85	-13	-36.85	H
2.474240	64.99	Pk	31.80	-95.2	-50.12	-48.53	-13	-35.53	V
3.323440	56.1	Pk	32.80	-95.2	-47.30	-53.60	-13	-40.60	H
3.327840	55.57	Pk	32.80	-95.2	-47.30	-54.13	-13	-41.13	V
Mid Channel, 836.5MHz									
1.658480	59.83	Pk	29.00	-95.2	-49.40	-55.77	-13	-42.77	H
1.659360	59.55	Pk	29.00	-95.2	-49.40	-56.05	-13	-43.05	V
2.518240	59.95	Pk	32.10	-95.2	-49.88	-53.03	-13	-40.03	H
2.514280	59.5	Pk	32.00	-95.2	-49.87	-53.57	-13	-40.57	V
3.357320	55.77	Pk	32.70	-95.2	-47.10	-53.83	-13	-40.83	H
3.340600	55.41	Pk	32.70	-95.2	-47.14	-54.23	-13	-41.23	V
High Channel, 844MHz									
1.675640	58.68	Pk	29.00	-95.2	-49.46	-56.98	-13	-43.98	H
1.679160	60.39	Pk	29.00	-95.2	-49.50	-55.31	-13	-42.31	V
2.526160	59.29	Pk	32.10	-95.2	-49.80	-53.61	-13	-40.61	H
2.528800	60.25	Pk	32.10	-95.2	-49.72	-52.57	-13	-39.57	V
3.355560	55.83	Pk	32.70	-95.2	-47.14	-53.81	-13	-40.81	H
3.372280	55.36	Pk	32.70	-95.2	-47.20	-54.34	-13	-41.34	V

10.1.7. 5G NR n26 (FCC PART 22)

5G NR n26 (BPSK 20.0MHZ BANDWIDTH, ANT 3)

Date:	2025-07-24
Test Engineer:	45258
Configuration:	EUT Only
Mode:	FR1 N26(22h) BPSK 20MHz
Chamber #:	03-RDE-B

Frequency (MHz)	Meter Reading (dBuV)	Det	223084 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 834MHz									
1.649350	62.62	Pk	28.90	-95.2	-49.6	-53.28	-13	-40.28	H
1.648900	58.69	Pk	28.90	-95.2	-49.6	-57.21	-13	-44.21	V
2.498050	57.55	Pk	32.00	-95.2	-49.91	-55.56	-13	-42.56	H
2.500750	57.44	Pk	32.00	-95.2	-50	-55.76	-13	-42.76	V
3.333700	56.13	Pk	32.70	-95.2	-47.73	-54.1	-13	-41.10	H
3.335950	55.64	Pk	32.70	-95.2	-47.51	-54.37	-13	-41.37	V
Mid Channel, 836.5MHz									
1.654300	60.89	Pk	29.00	-95.2	-49.67	-54.98	-13	-41.98	H
1.654300	60.53	Pk	29.00	-95.2	-49.67	-55.34	-13	-42.34	V
2.509750	57.80	Pk	32.00	-95.2	-50.03	-55.43	-13	-42.43	H
2.508850	57.40	Pk	32.00	-95.2	-50.09	-55.89	-13	-42.89	V
3.345850	55.27	Pk	32.70	-95.2	-47.52	-54.75	-13	-41.75	H
3.346750	56.40	Pk	32.70	-95.2	-47.43	-53.53	-13	-40.53	V
High Channel, 839MHz									
1.659700	60.04	Pk	29.00	-95.2	-49.60	-55.76	-13	-42.76	H
1.659700	58.14	Pk	29.00	-95.2	-49.60	-57.66	-13	-44.66	V
2.514700	58.48	Pk	32.00	-95.2	-50.06	-54.78	-13	-41.78	H
2.516050	57.72	Pk	32.00	-95.2	-50.10	-55.58	-13	-42.58	V
3.358450	56.20	Pk	32.70	-95.2	-47.35	-53.65	-13	-40.65	H
3.356200	55.18	Pk	32.70	-95.2	-47.48	-54.80	-13	-41.80	V

5G NR n26 (BPSK 20.0MHZ BANDWIDTH, ANT 2)

Date:	2025-07-19
Test Engineer:	103479
Configuration:	EUT Only
Mode:	FR1 N26(22h) BPSK 20MHz
Chamber #:	03-RDE-B

Frequency (MHz)	Meter Reading (dBuV)	Det	223084 ACF (dB/m)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Polarity
Low Channel, 834MHz									
1.64935	61.11	Pk	28.9	-95.2	-49.6	-54.79	-13	-41.79	H
1.6678	58.98	Pk	29	-95.2	-49.7	-56.92	-13	-43.92	V
2.4742	69.63	Pk	31.8	-95.2	-49.9	-43.67	-13	-30.67	H
2.47465	68.61	Pk	31.9	-95.2	-49.9	-44.59	-13	-31.59	V
3.33415	55.83	Pk	32.7	-95.2	-47.7	-54.37	-13	-41.37	H
3.33955	56.12	Pk	32.7	-95.2	-47.65	-54.03	-13	-41.03	V
Mid Channel, 836.5MHz									
1.660600	59.58	Pk	29.00	-95.2	-49.6	-56.22	-13	-43.22	H
1.679950	58.88	Pk	29.00	-95.2	-49.7	-57.02	-13	-44.02	V
2.480950	63.82	Pk	31.90	-95.2	-49.91	-49.39	-13	-36.39	H
2.480950	62.36	Pk	31.90	-95.2	-49.91	-50.85	-13	-37.85	V
3.352600	56.43	Pk	32.70	-95.2	-47.4	-53.47	-13	-40.47	H
3.340000	56.84	Pk	32.70	-95.2	-47.6	-53.26	-13	-40.26	V
High Channel, 839MHz									
1.674100	60.39	Pk	29	-95.2	-49.61	-55.42	-13	-42.42	H
1.672300	58.95	Pk	29	-95.2	-49.6	-56.85	-13	-43.85	V
2.517850	58.75	Pk	32.1	-95.2	-50.1	-54.45	-13	-41.45	H
2.516950	57.98	Pk	32.1	-95.2	-50.1	-55.22	-13	-42.22	V
3.343150	55.84	Pk	32.7	-95.2	-47.5	-54.16	-13	-41.16	H
3.342250	55.94	Pk	32.7	-95.2	-47.5	-54.06	-13	-41.06	V

11. SETUP PHOTOS

Refer to 15496249-EP1V1 for setup photos.

END OF REPORT