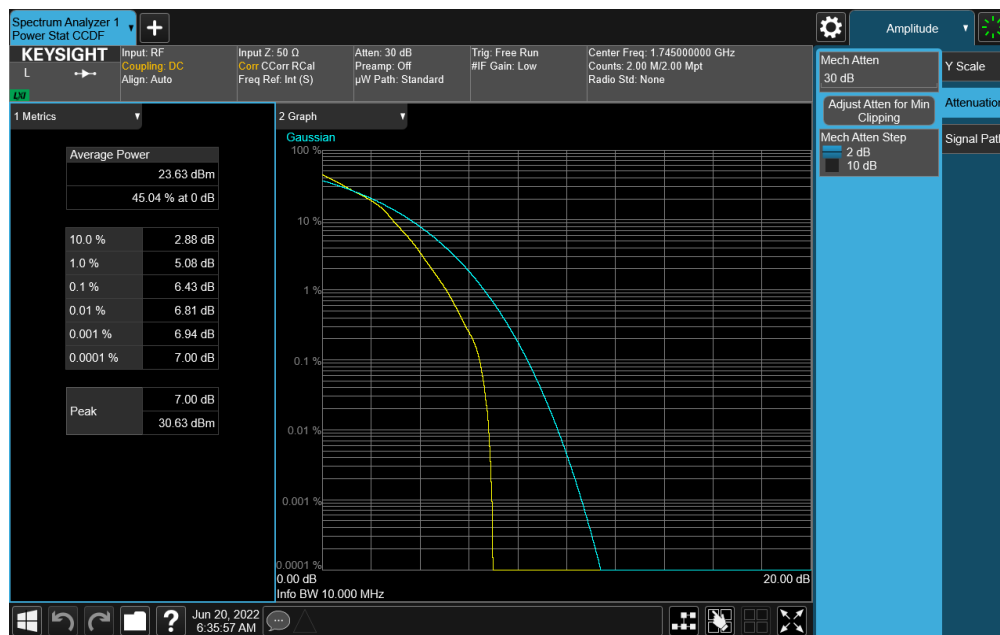



Plot 7-405. PAR Plot (NR Band n66 - 10.0MHz DFT-s-OFDM QPSK - Full RB)

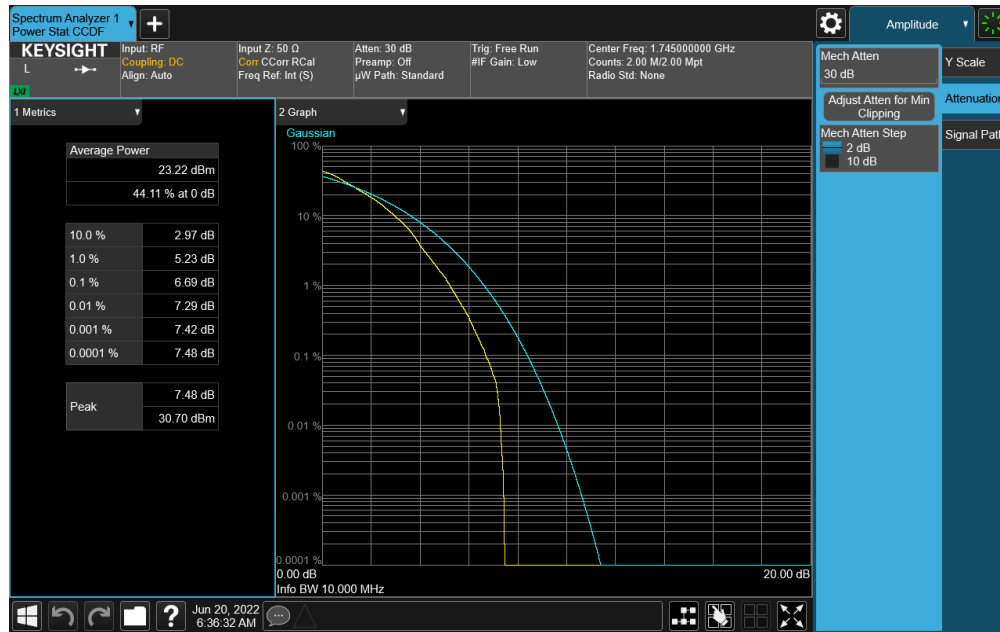


Plot 7-406. PAR Plot (NR Band n66 - 10.0MHz DFT-s-OFDM 16-QAM - Full RB)

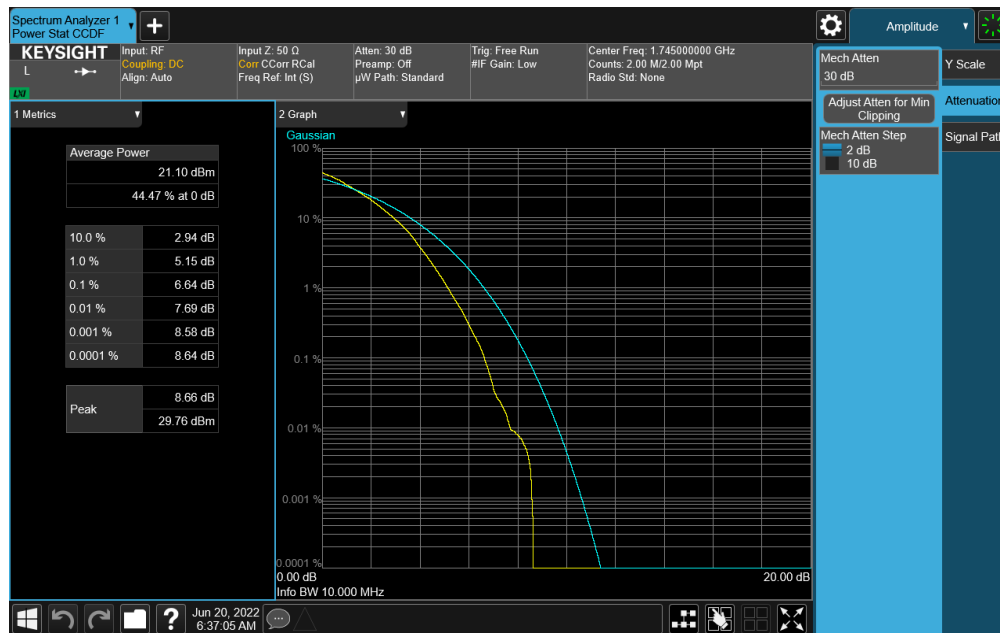
FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-407. PAR Plot (NR Band n66 - 10.0MHz DFT-s-OFDM 64-QAM - Full RB)

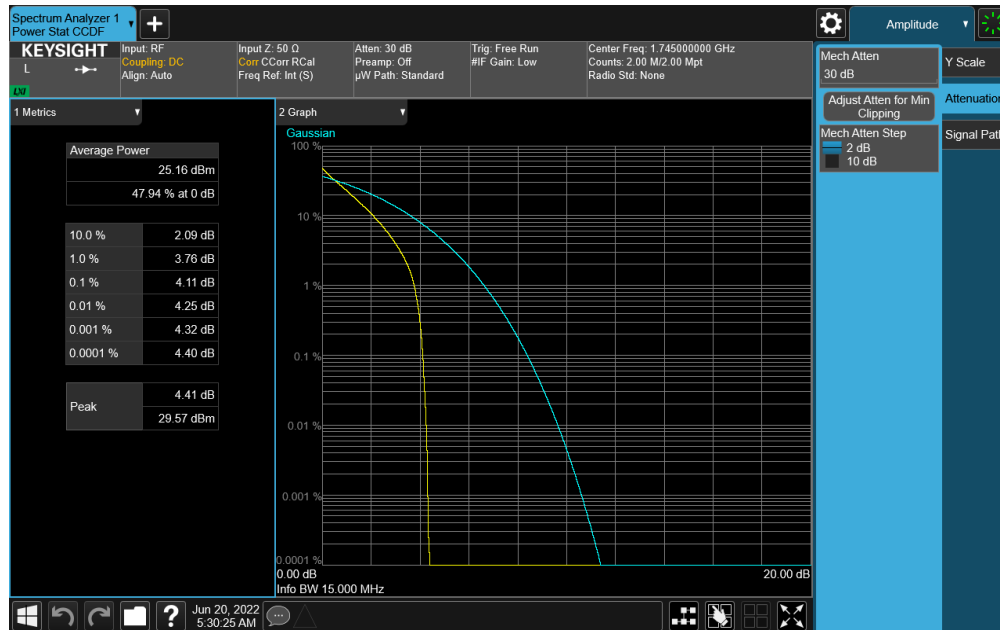


Plot 7-408. PAR Plot (NR Band n66 - 10.0MHz DFT-s-OFDM 256-QAM - Full RB)

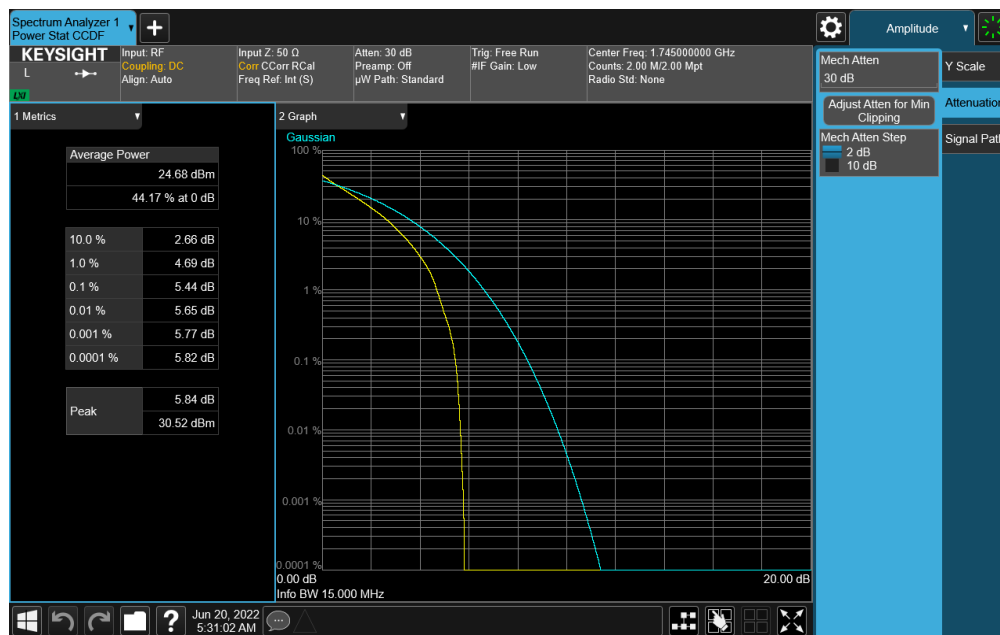
FCC ID: BCGA2435	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090025-03.BCG	Test Dates: 05/30/2022 - 08/29/2022	EUT Type: Tablet Device	Page 232 of 338

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Plot 7-409. PAR Plot (NR Band n66 - 15.0MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

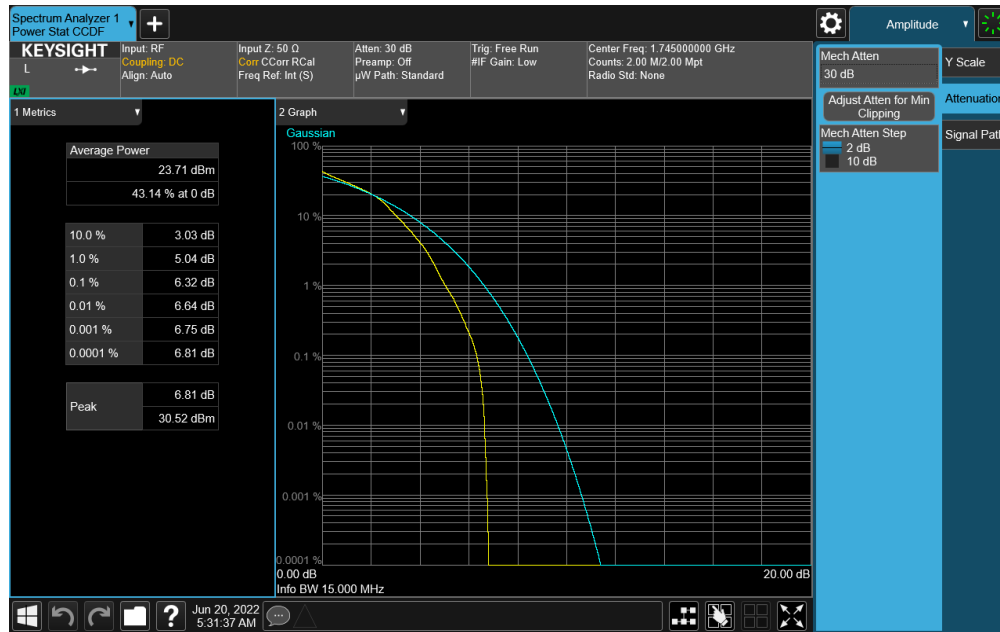


Plot 7-410. PAR Plot (NR Band n66 - 15.0MHz DFT-s-OFDM QPSK - Full RB)

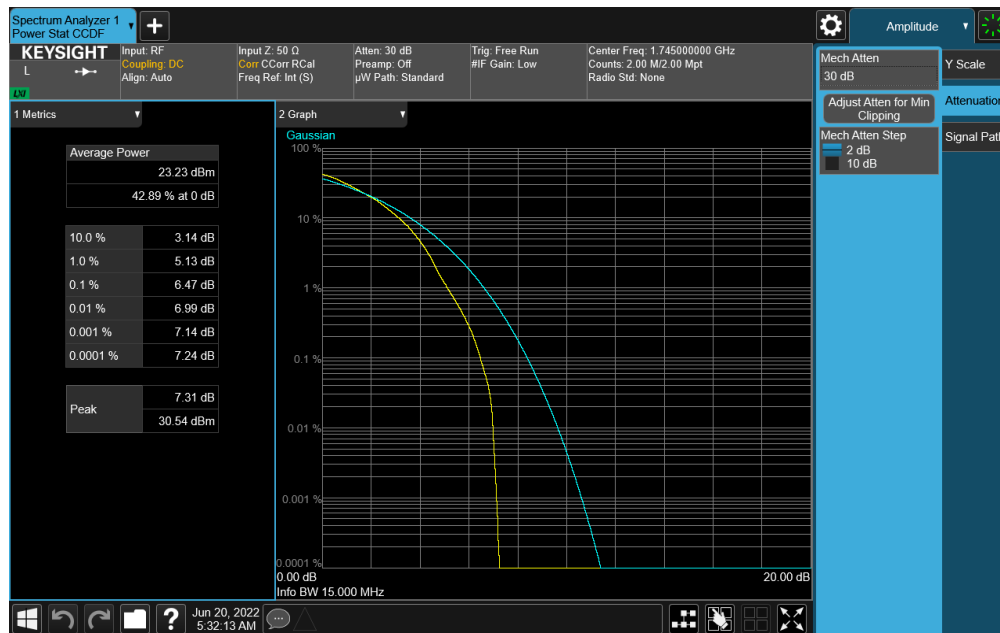
FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090025-03.BCG	Test Dates: 05/30/2022 - 08/29/2022	EUT Type: Tablet Device	Page 233 of 338

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Plot 7-411. PAR Plot (NR Band n66 - 15.0MHz DFT-s-OFDM 16-QAM - Full RB)

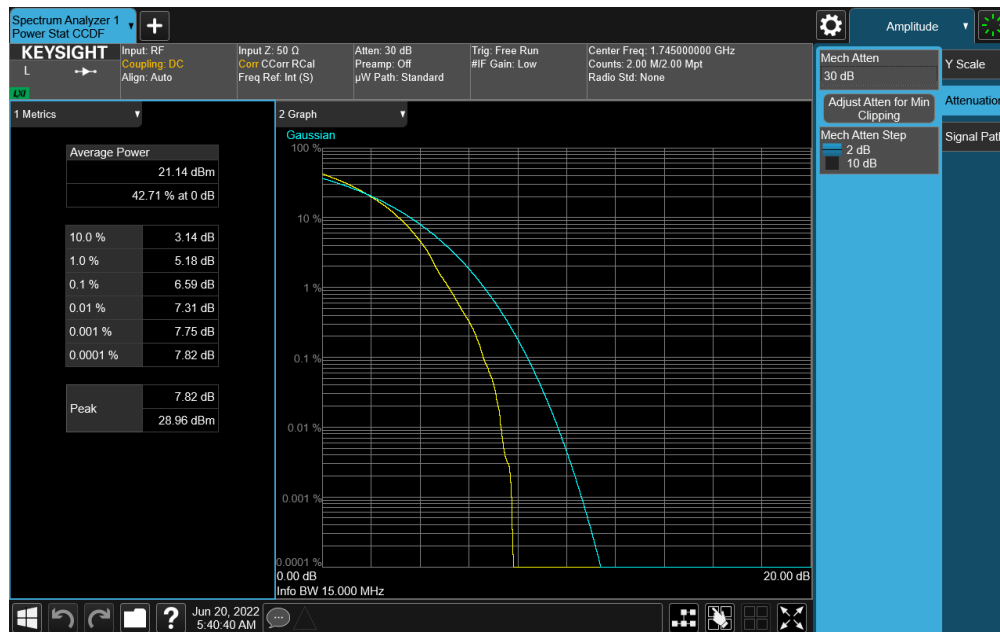


Plot 7-412. PAR Plot (NR Band n66 - 15.0MHz DFT-s-OFDM 64-QAM - Full RB)

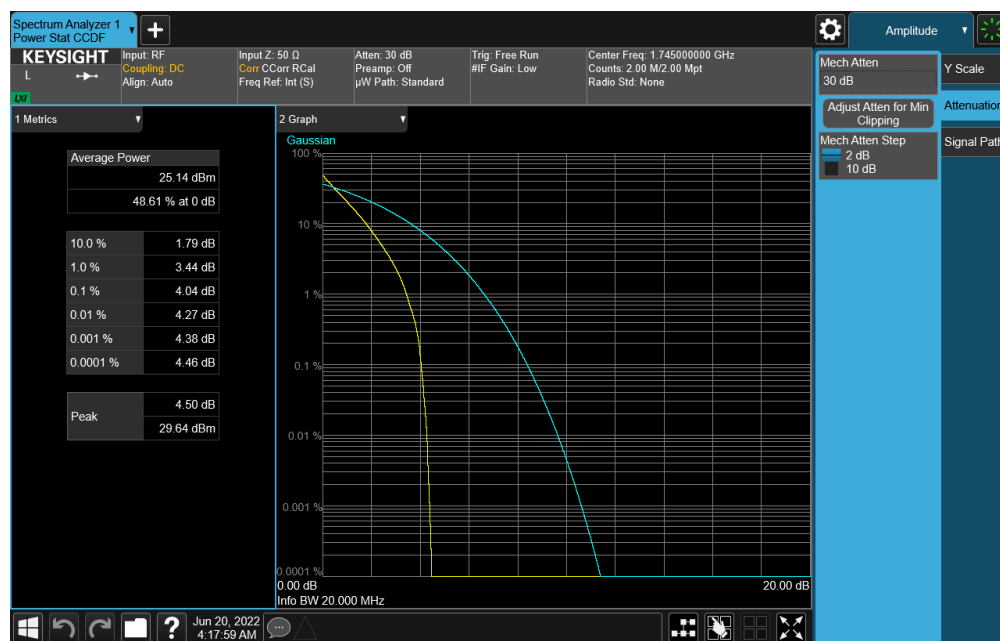
FCC ID: BCGA2435	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090025-03.BCG	Test Dates: 05/30/2022 - 08/29/2022	EUT Type: Tablet Device	Page 234 of 338

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Plot 7-413. PAR Plot (NR Band n66 - 15.0MHz DFT-s-OFDM 256-QAM - Full RB)

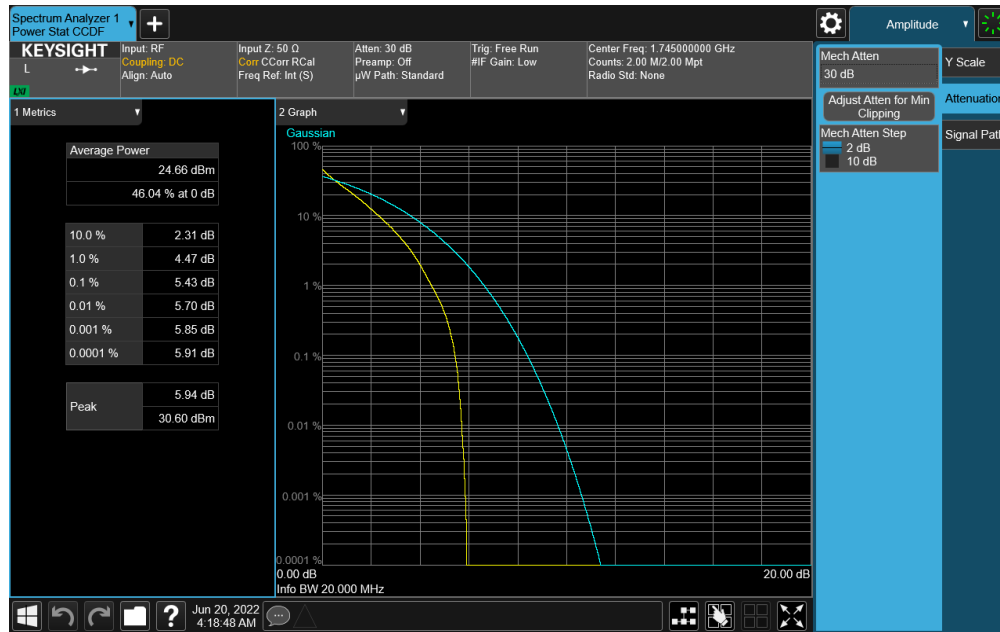


Plot 7-414. PAR Plot (NR Band n66 - 20.0MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

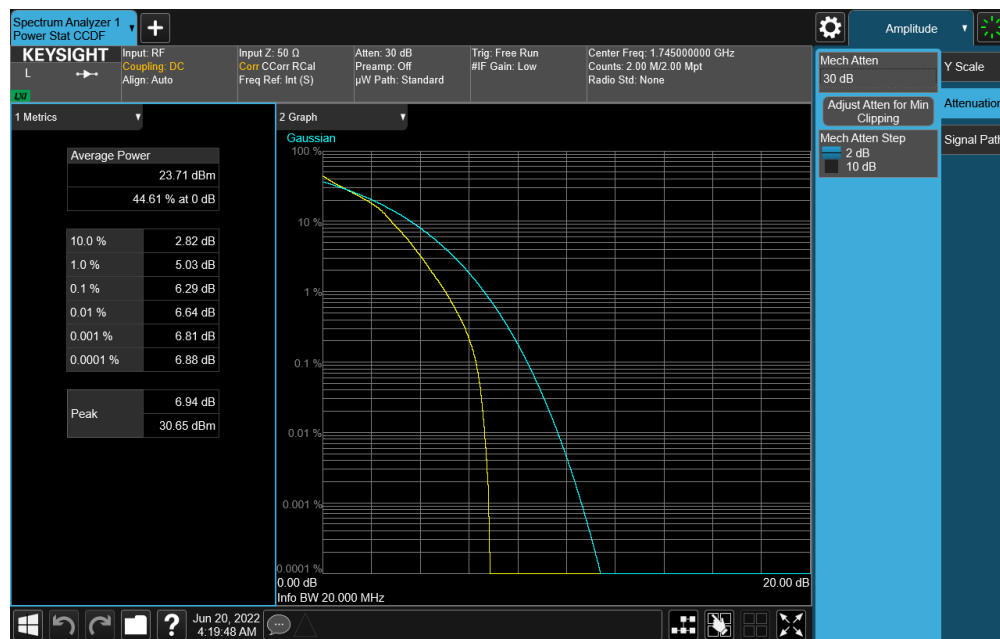
FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090025-03.BCG	Test Dates: 05/30/2022 - 08/29/2022	EUT Type: Tablet Device	Page 235 of 338

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Plot 7-415. PAR Plot (NR Band n66 - 20.0MHz DFT-s-OFDM QPSK - Full RB)

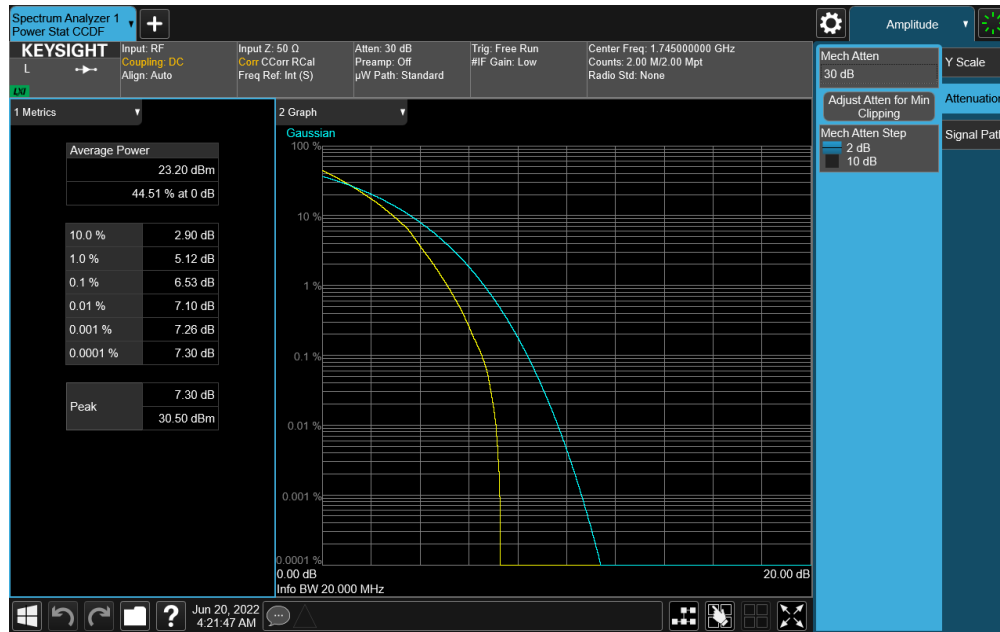


Plot 7-416. PAR Plot (NR Band n66 - 20.0MHz DFT-s-OFDM 16-QAM - Full RB)

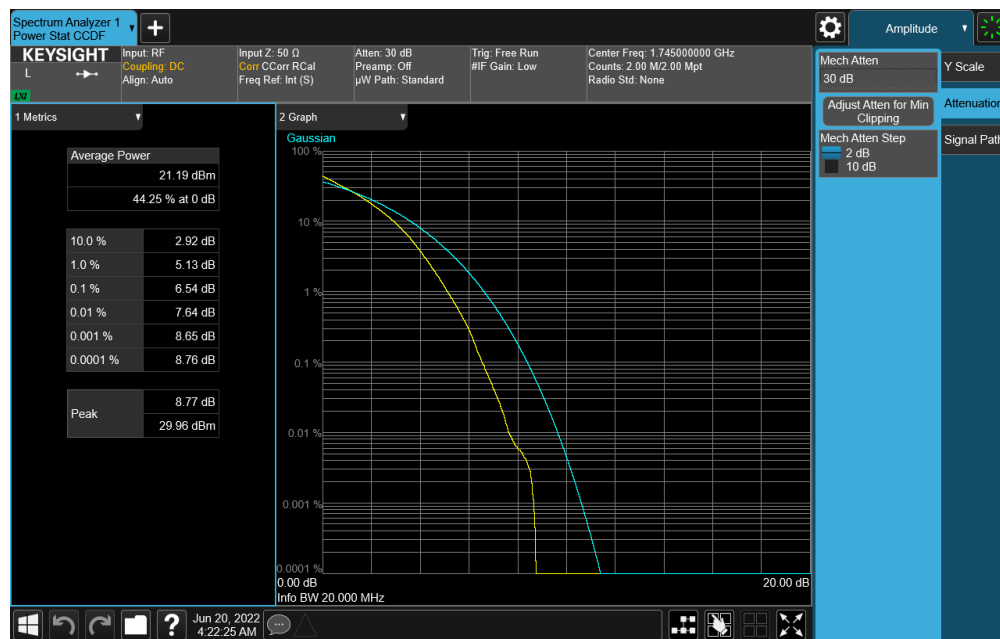
FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-417. PAR Plot (NR Band n66 - 20.0MHz DFT-s-OFDM 64-QAM - Full RB)

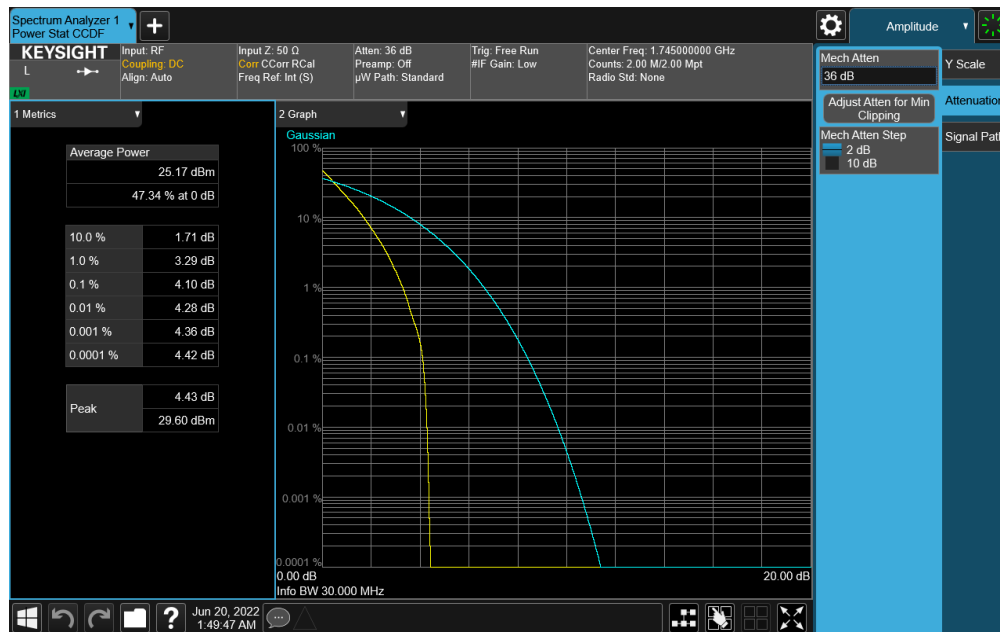


Plot 7-418. PAR Plot (NR Band n66 - 20.0MHz DFT-s-OFDM 256-QAM - Full RB)

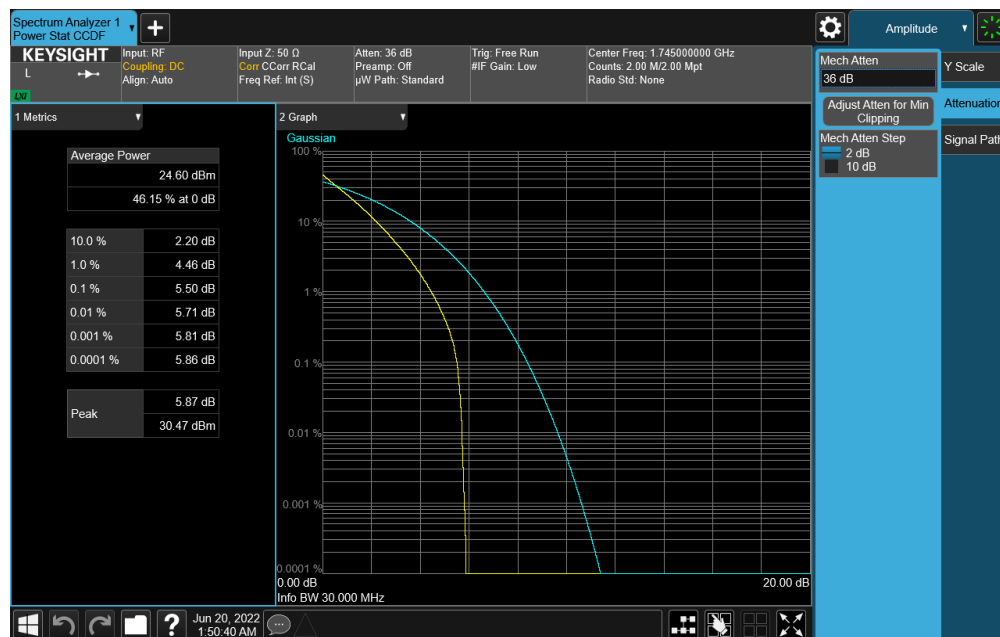
FCC ID: BCGA2435	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-419. PAR Plot (NR Band n66 - 30.0MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

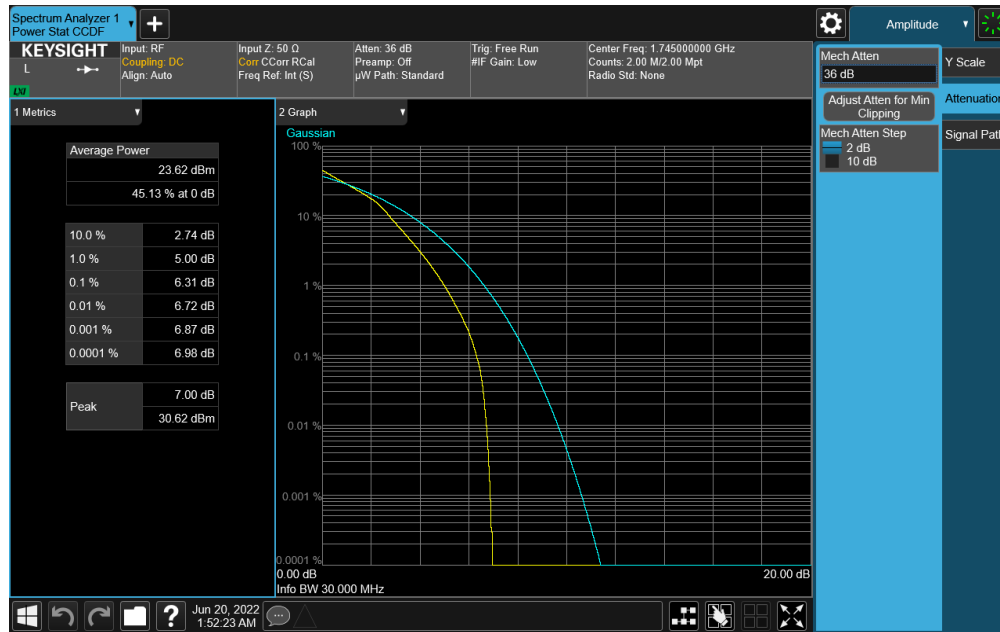


Plot 7-420. PAR Plot (NR Band n66 - 30.0MHz DFT-s-OFDM QPSK - Full RB)

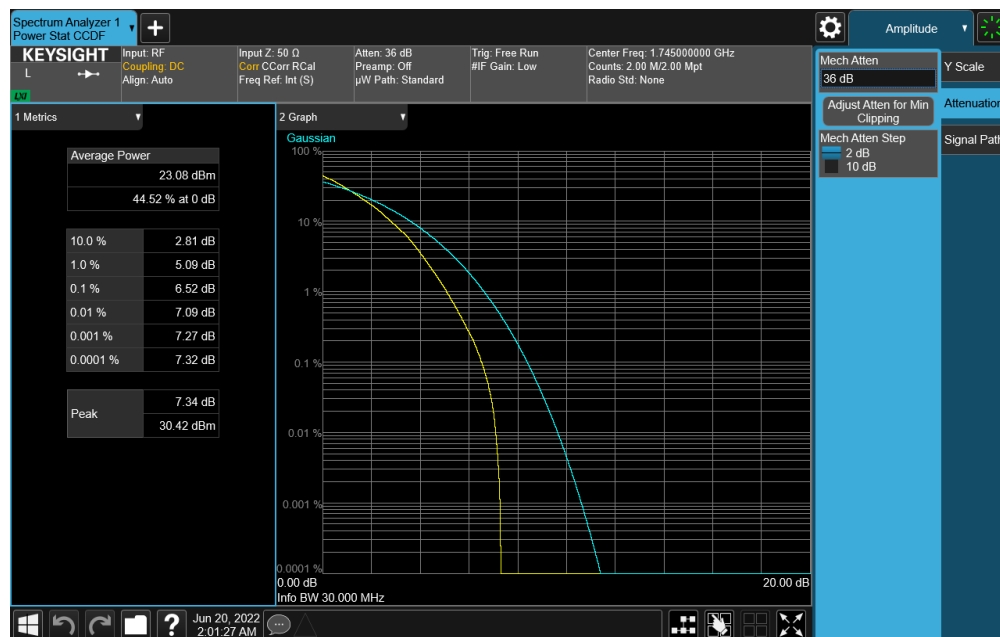
FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090025-03.BCG	Test Dates: 05/30/2022 - 08/29/2022	EUT Type: Tablet Device	Page 238 of 338

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Plot 7-421. PAR Plot (NR Band n66 - 30.0MHz DFT-s-OFDM 16-QAM - Full RB)

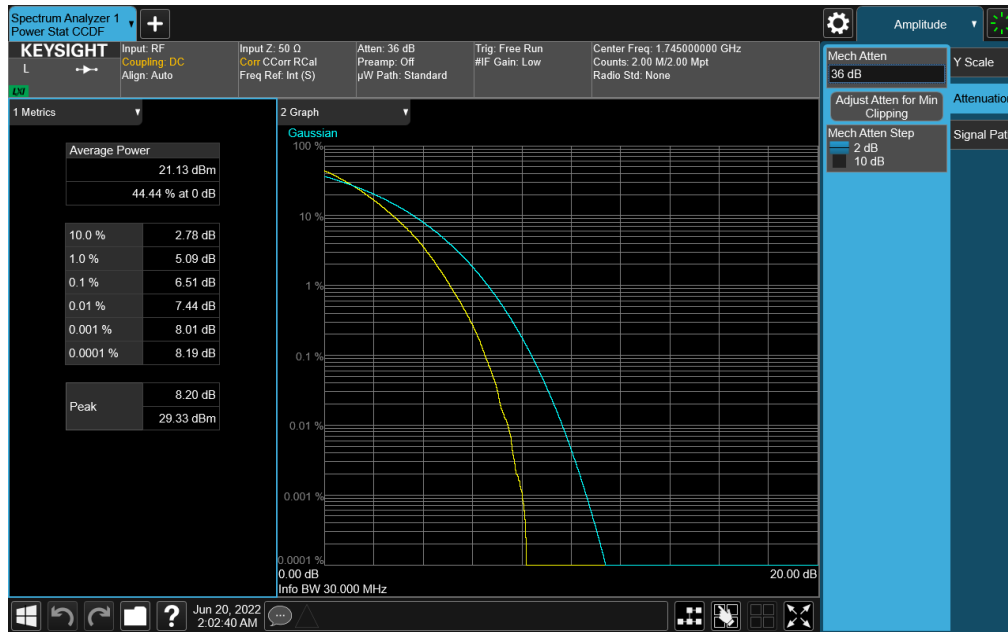


Plot 7-422. PAR Plot (NR Band n66 - 30.0MHz DFT-s-OFDM 64-QAM - Full RB)

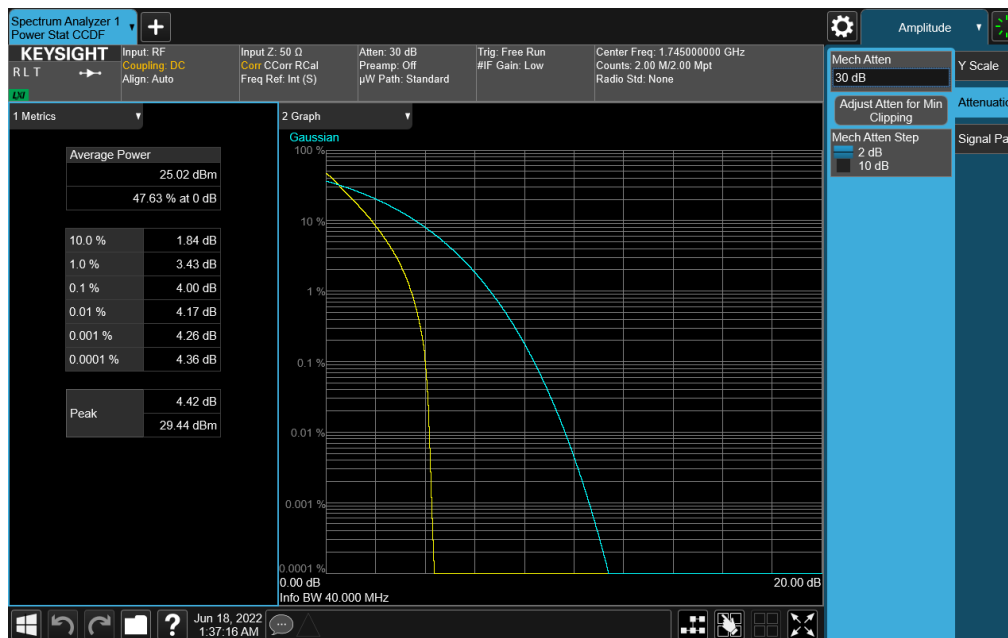
FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090025-03.BCG	Test Dates: 05/30/2022 - 08/29/2022	EUT Type: Tablet Device	Page 239 of 338

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Plot 7-423. PAR Plot (NR Band n66 - 30.0MHz DFT-s-OFDM 256-QAM - Full RB)

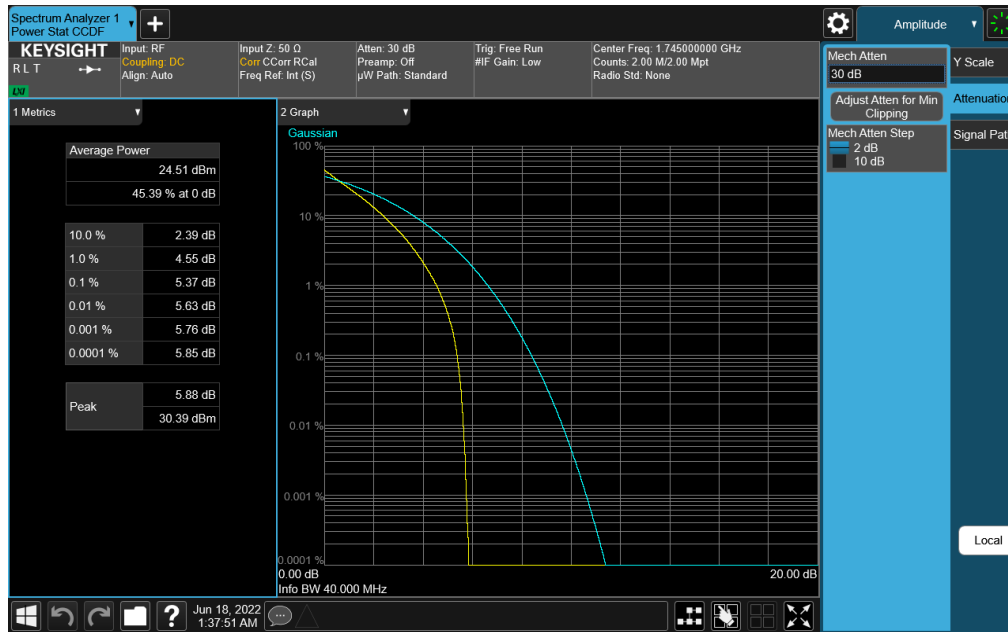


Plot 7-424. PAR Plot (NR Band n66 - 40.0MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

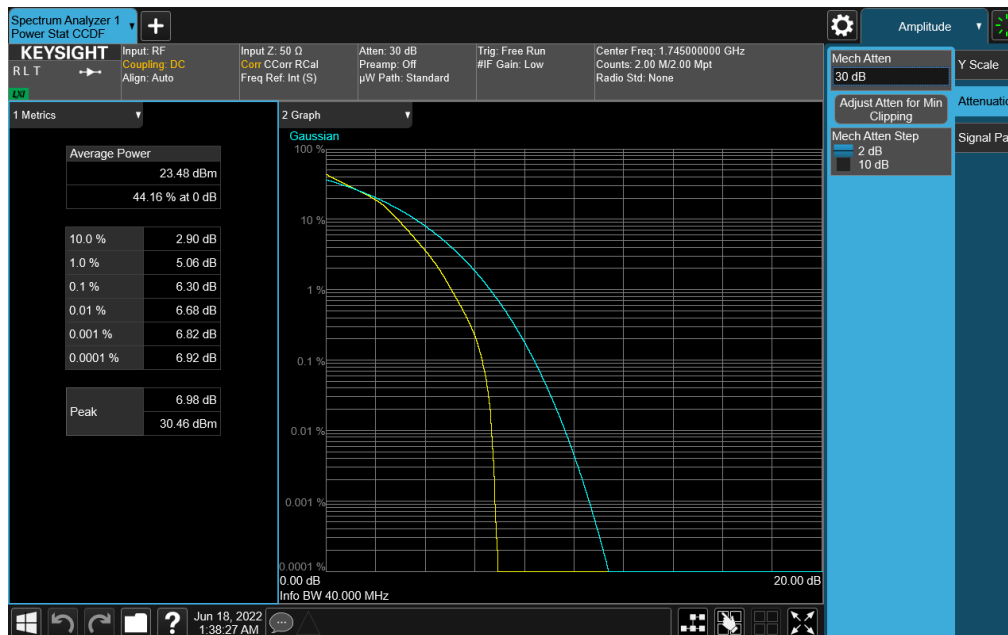
FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090025-03.BCG	Test Dates: 05/30/2022 - 08/29/2022	EUT Type: Tablet Device	Page 240 of 338

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Plot 7-425. PAR Plot (NR Band n66 - 40.0MHz DFT-s-OFDM QPSK - Full RB)

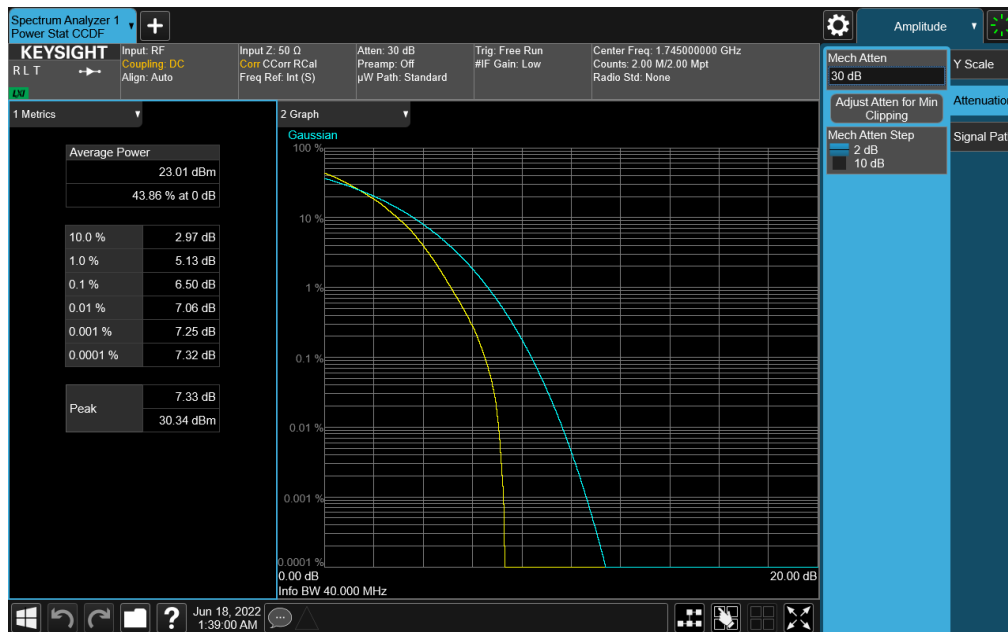


Plot 7-426. PAR Plot (NR Band n66 - 40.0MHz DFT-s-OFDM 16-QAM - Full RB)

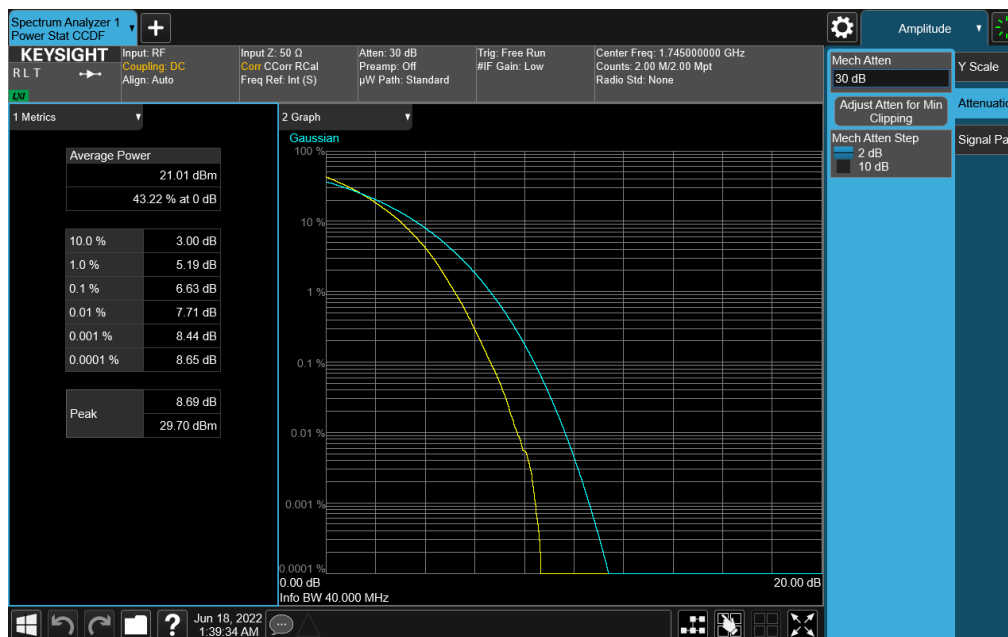
FCC ID: BCGA2435	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-427. PAR Plot (NR Band n66 - 40.0MHz DFT-s-OFDM 64-QAM - Full RB)



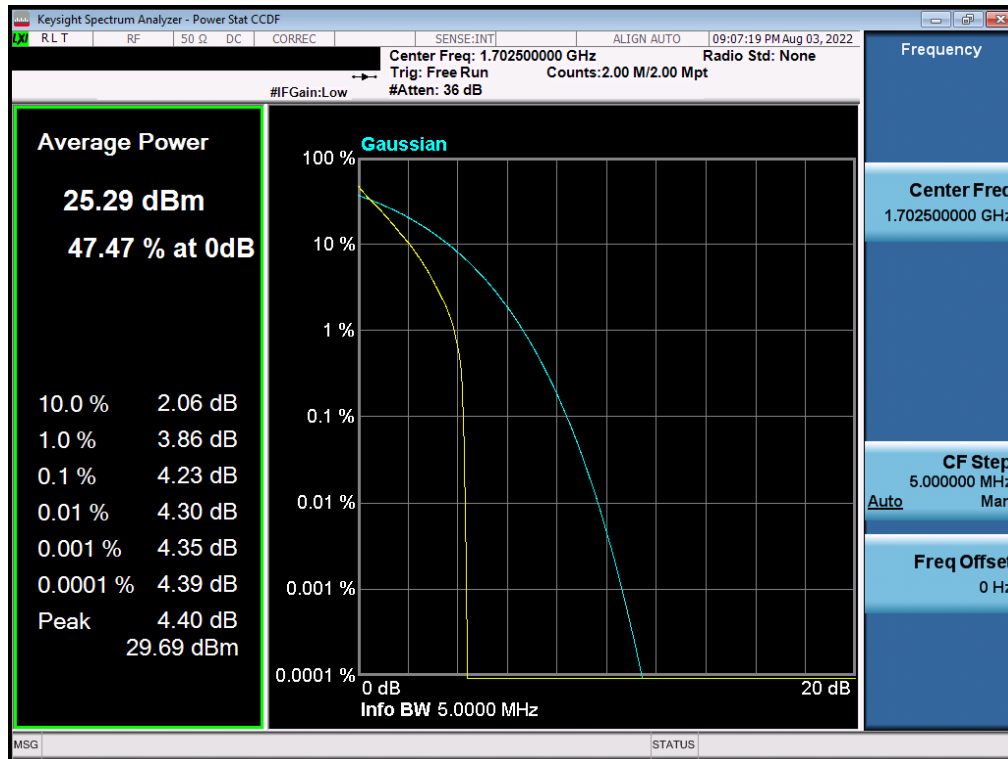
Plot 7-428. PAR Plot (NR Band n66 - 40.0MHz DFT-s-OFDM 256-QAM - Full RB)

FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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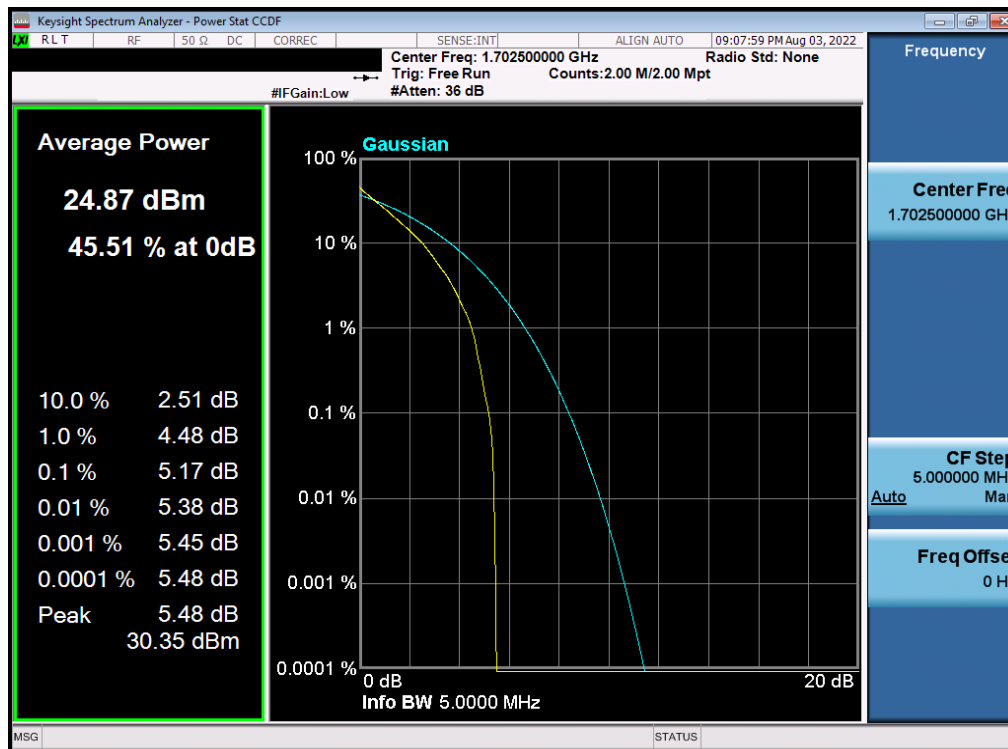
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NR Band n70



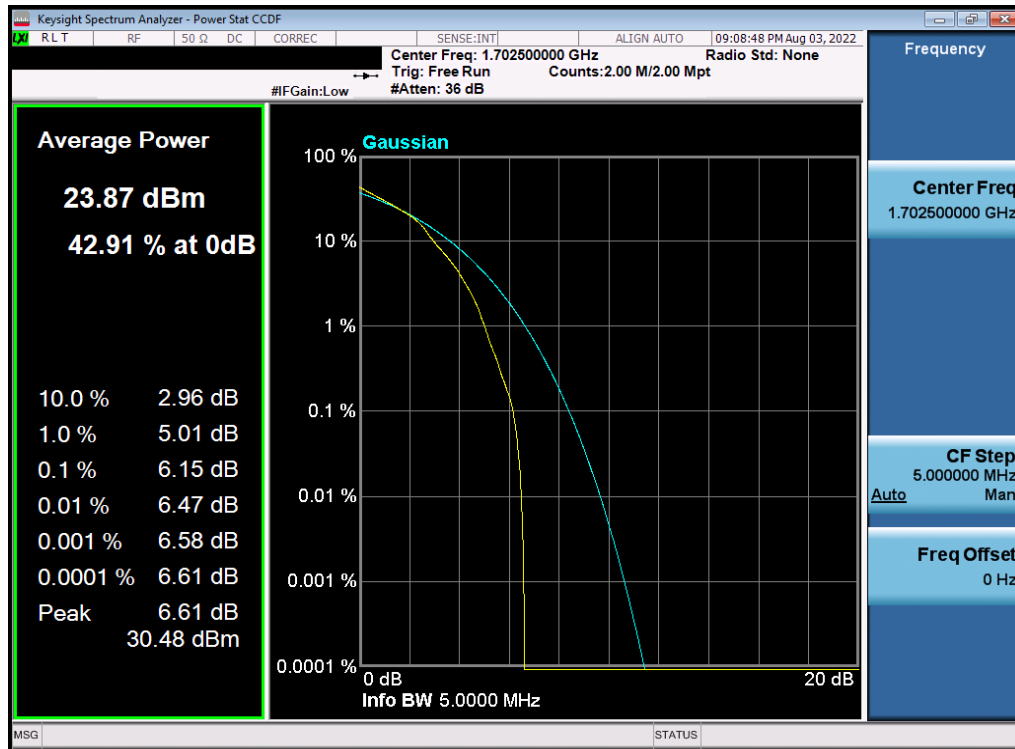
Plot 7-429. PAR Plot (NR Band n70 - 5.0MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)



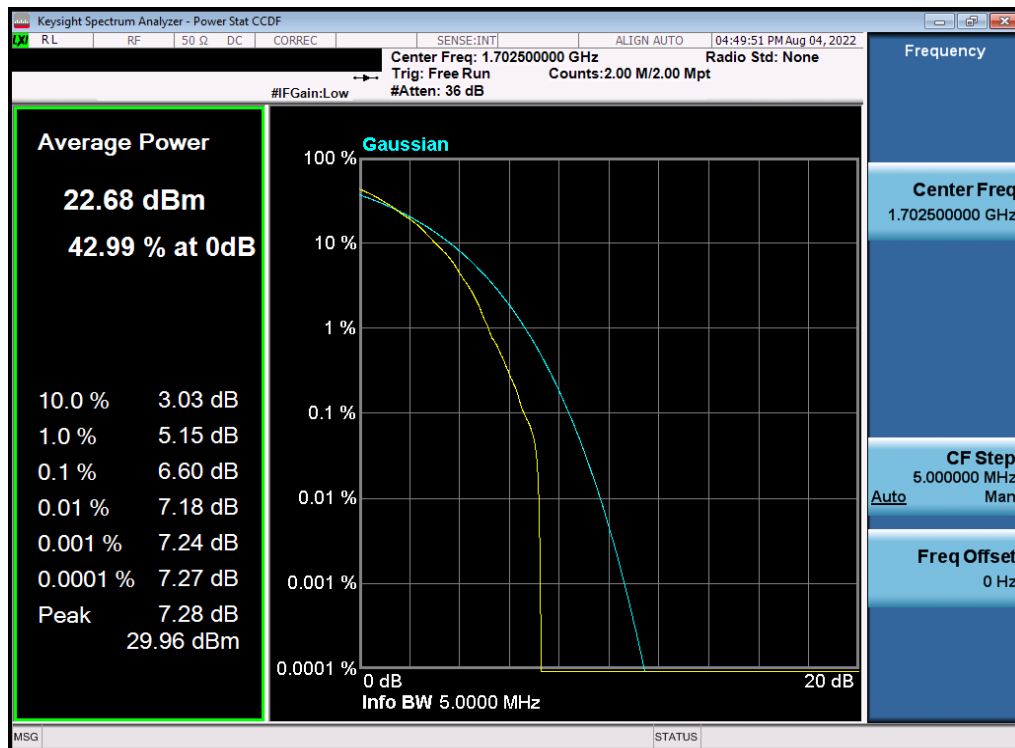
Plot 7-430. PAR Plot (NR Band n70 - 5.0MHz DFT-s-OFDM QPSK - Full RB)

FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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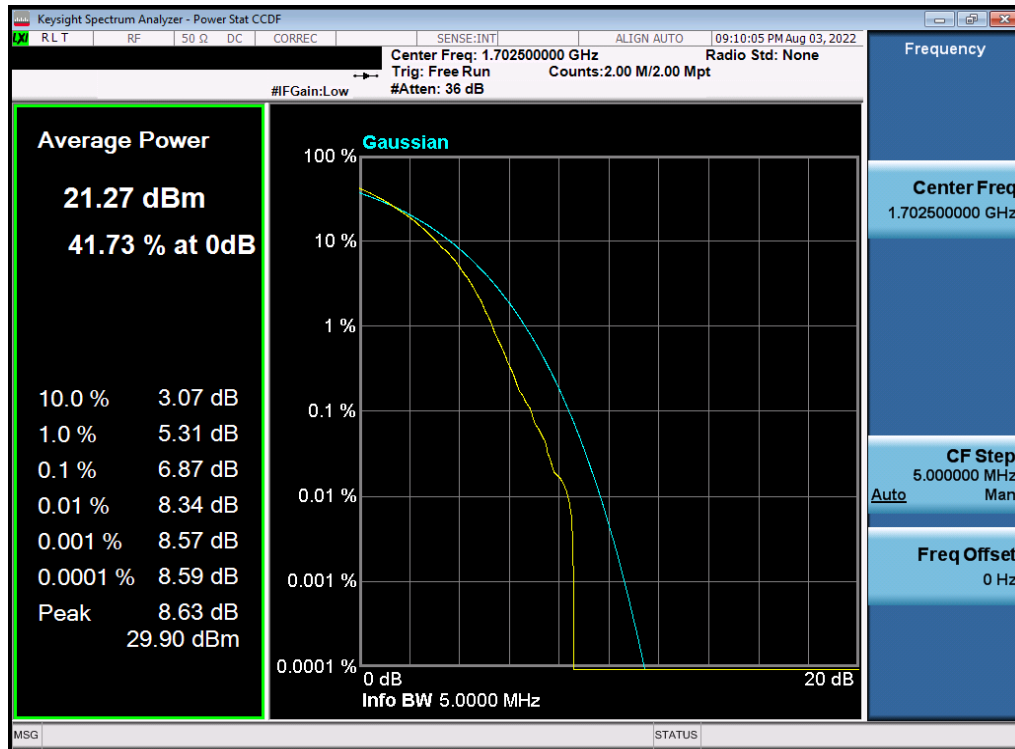
Plot 7-431. PAR Plot (NR Band n70 - 5.0MHz DFT-s-OFDM 16-QAM - Full RB)



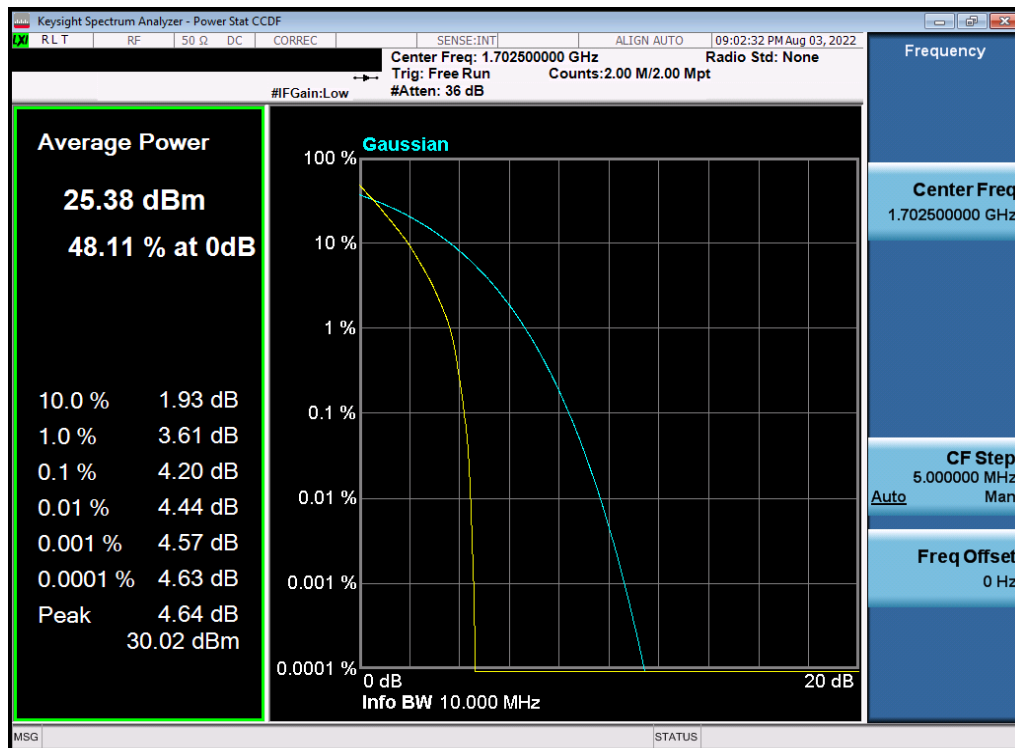
Plot 7-432. PAR Plot (NR Band n70 - 5.0MHz DFT-s-OFDM 64-QAM - Full RB)

FCC ID: BCGA2435	<p>element</p> <p>PART 27 MEASUREMENT REPORT</p>		Approved by: Technical Manager
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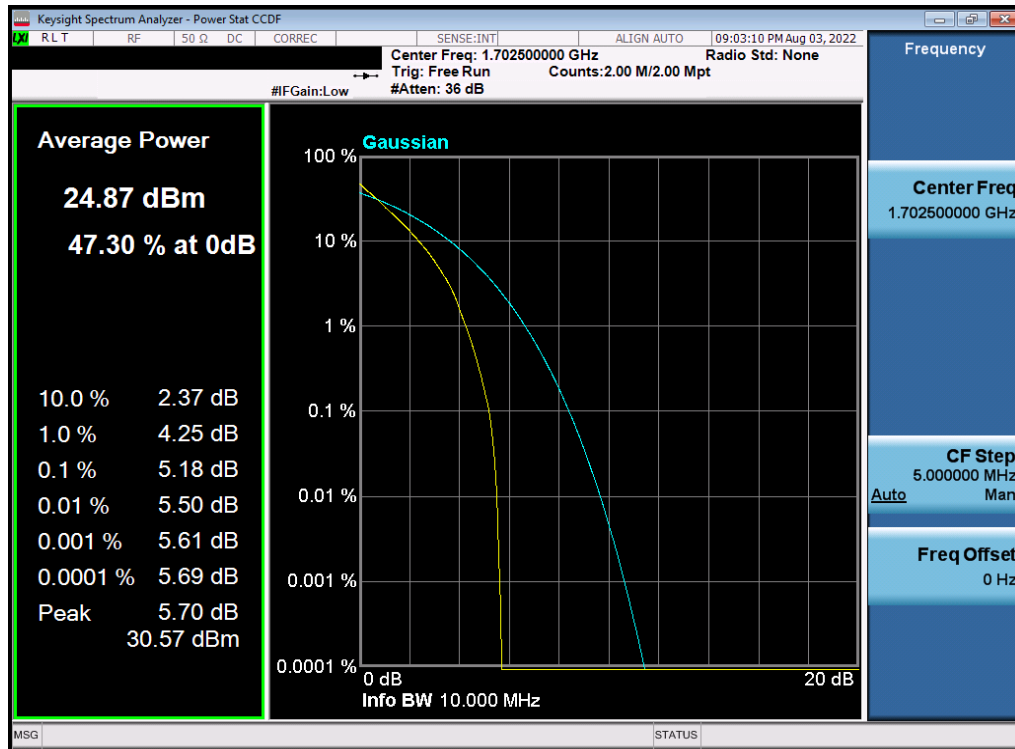
Plot 7-433. PAR Plot (NR Band n70 - 5.0MHz DFT-s-OFDM 256-QAM - Full RB)



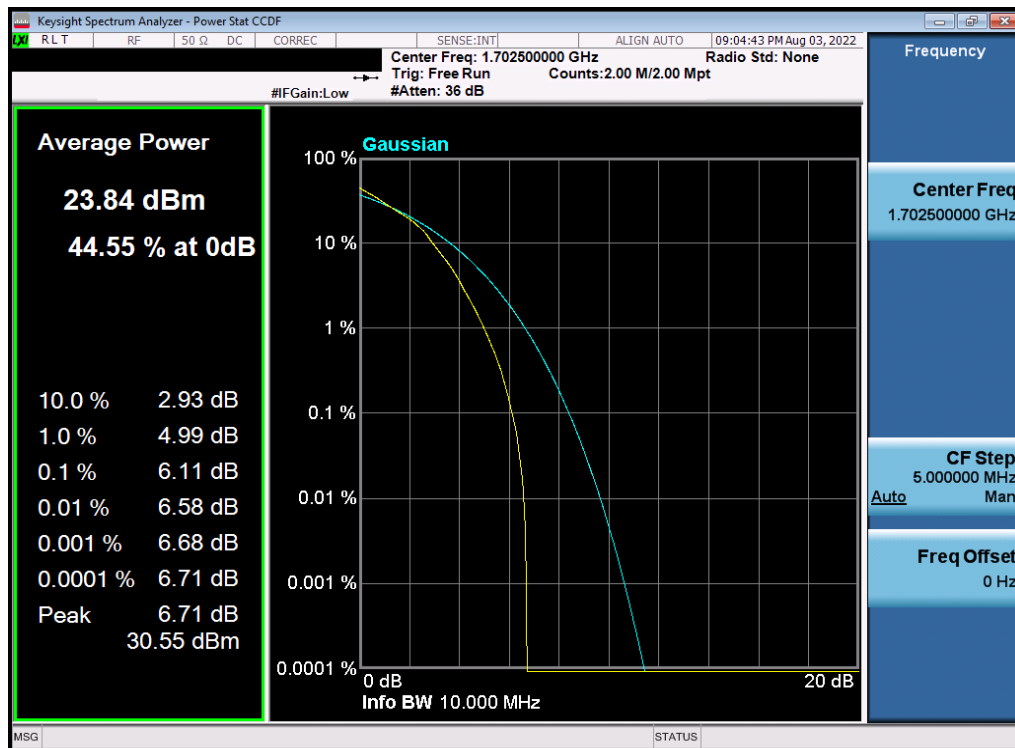
Plot 7-434. PAR Plot (NR Band n70 - 10.0MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

FCC ID: BCGA2435	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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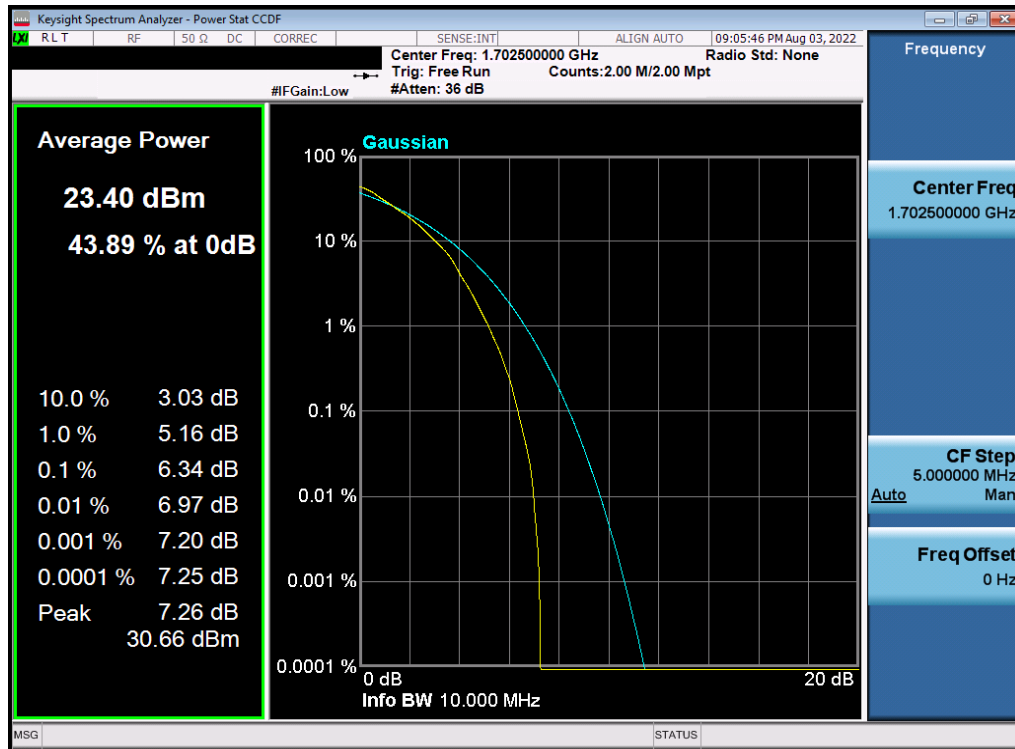
Plot 7-435. PAR Plot (NR Band n70 - 10.0MHz DFT-s-OFDM QPSK - Full RB)



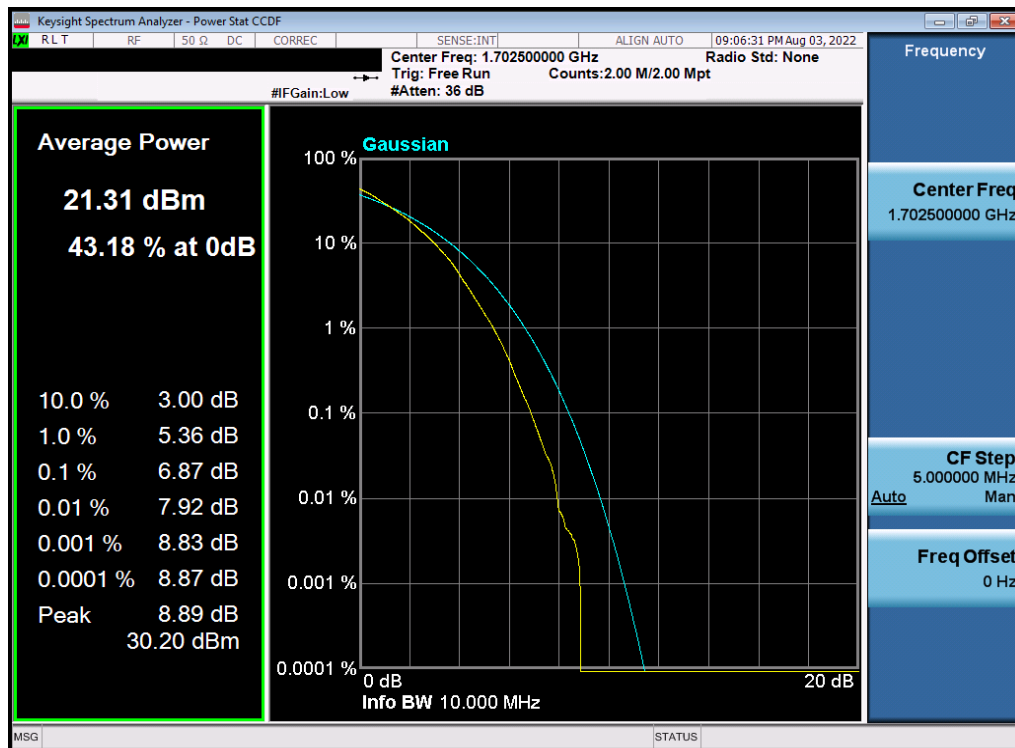
Plot 7-436. PAR Plot (NR Band n70 - 10.0MHz DFT-s-OFDM 16-QAM - Full RB)

FCC ID: BCGA2435	<p>element</p> <p>PART 27 MEASUREMENT REPORT</p>		Approved by: Technical Manager
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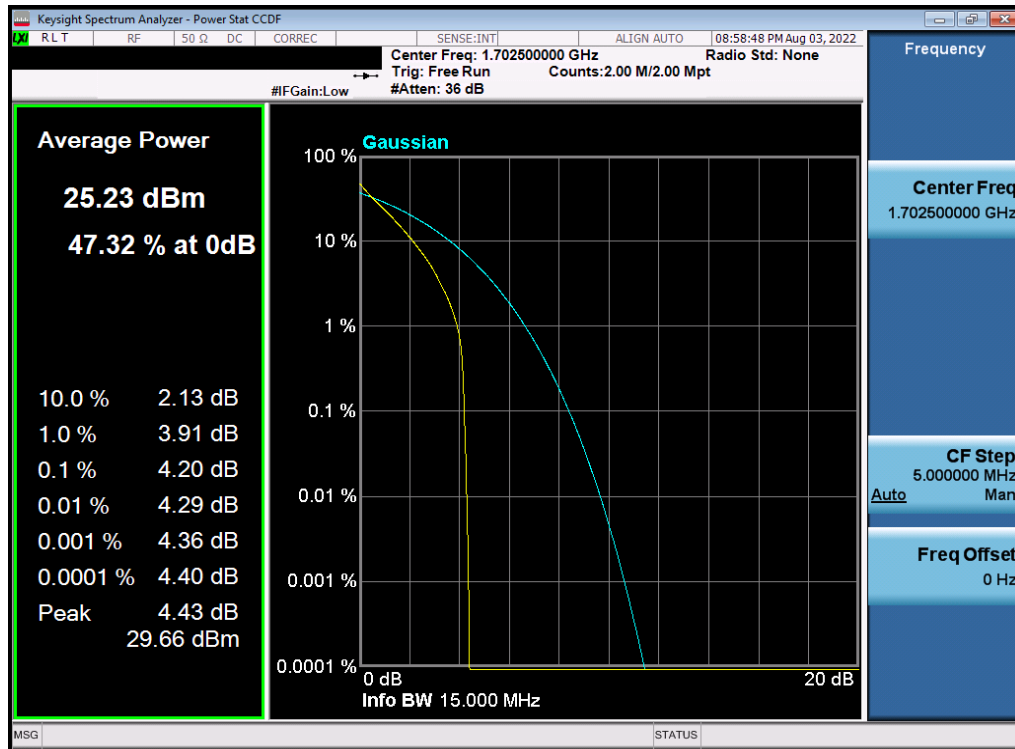
Plot 7-437. PAR Plot (NR Band n70 - 10.0MHz DFT-s-OFDM 64-QAM - Full RB)



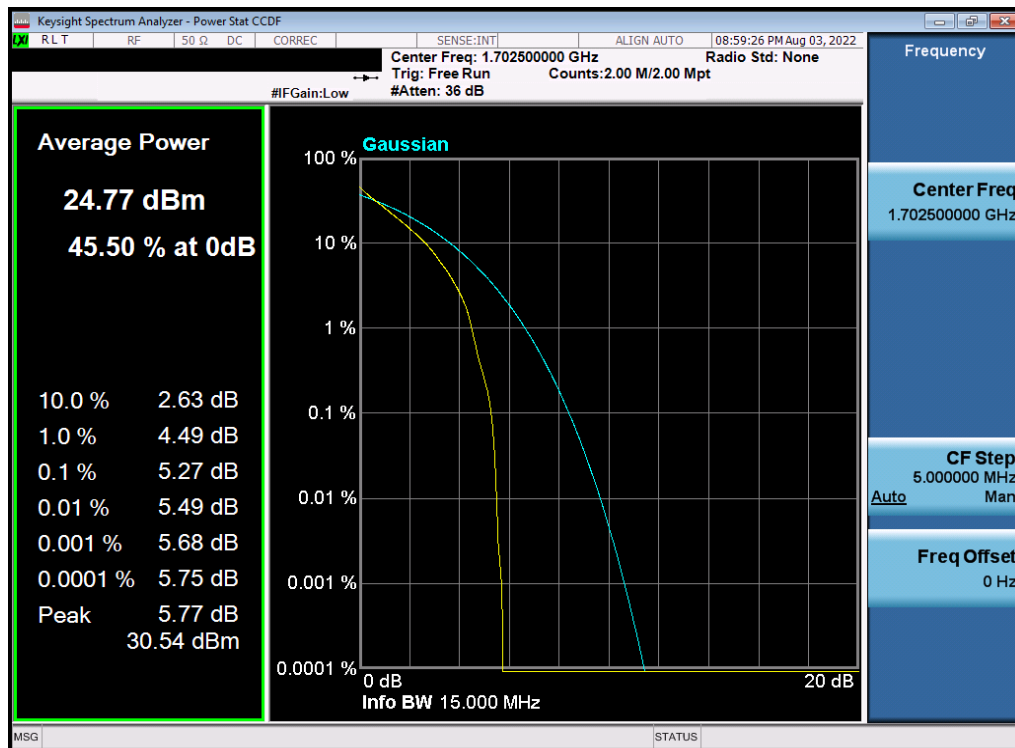
Plot 7-438. PAR Plot (NR Band n70 - 10.0MHz DFT-s-OFDM 256-QAM - Full RB)

FCC ID: BCGA2435	<p>element</p> <p>PART 27 MEASUREMENT REPORT</p>		Approved by: Technical Manager
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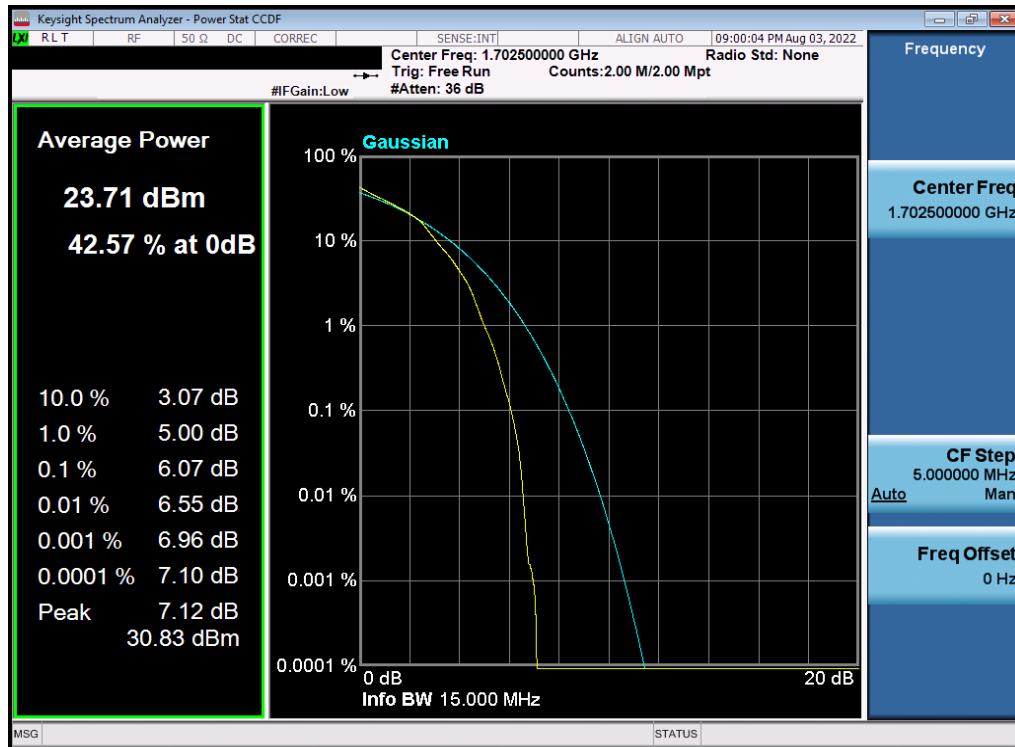
Plot 7-439. PAR Plot (NR Band n70 - 15.0MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)



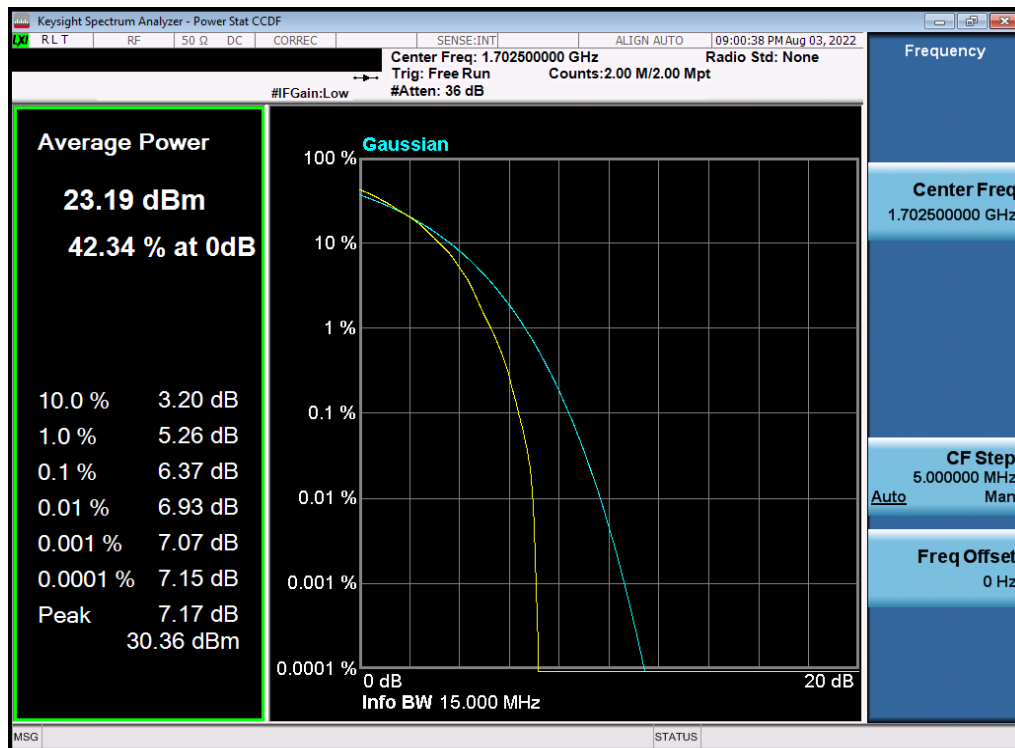
Plot 7-440. PAR Plot (NR Band n70 - 15.0MHz DFT-s-OFDM QPSK - Full RB)

FCC ID: BCGA2435	<p>element</p> <p>PART 27 MEASUREMENT REPORT</p>		Approved by: Technical Manager
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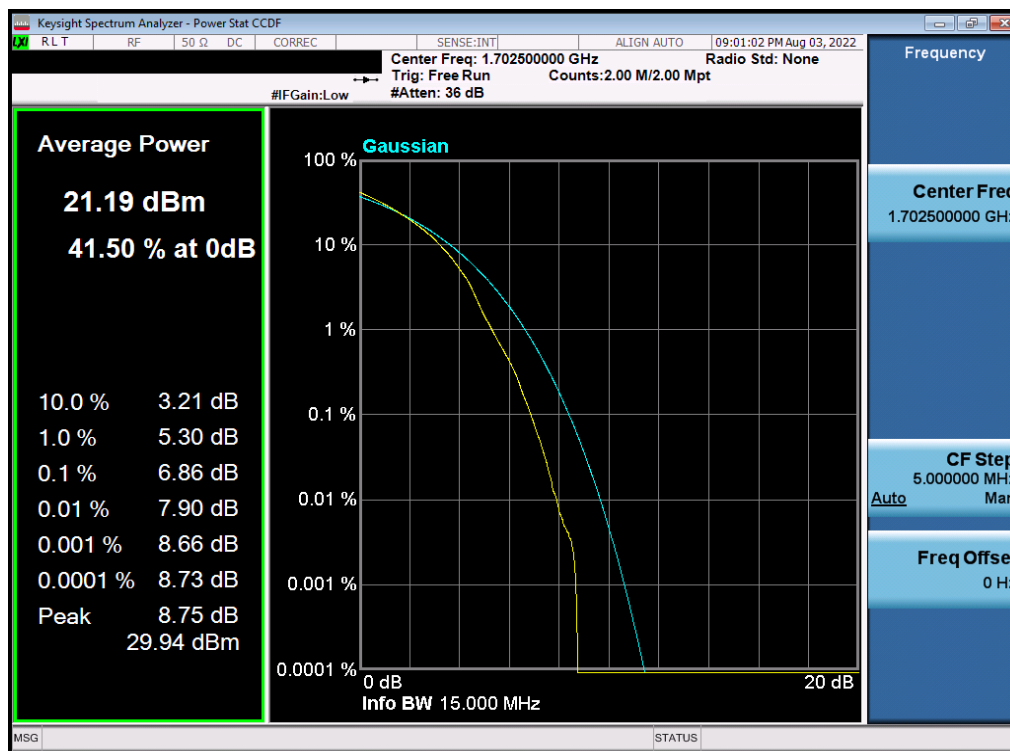
Plot 7-441. PAR Plot (NR Band n70 - 15.0MHz DFT-s-OFDM 16-QAM - Full RB)




Plot 7-442. PAR Plot (NR Band n70 - 15.0MHz DFT-s-OFDM 64-QAM - Full RB)

FCC ID: BCGA2435	<p>element PART 27 MEASUREMENT REPORT</p>		Approved by: Technical Manager
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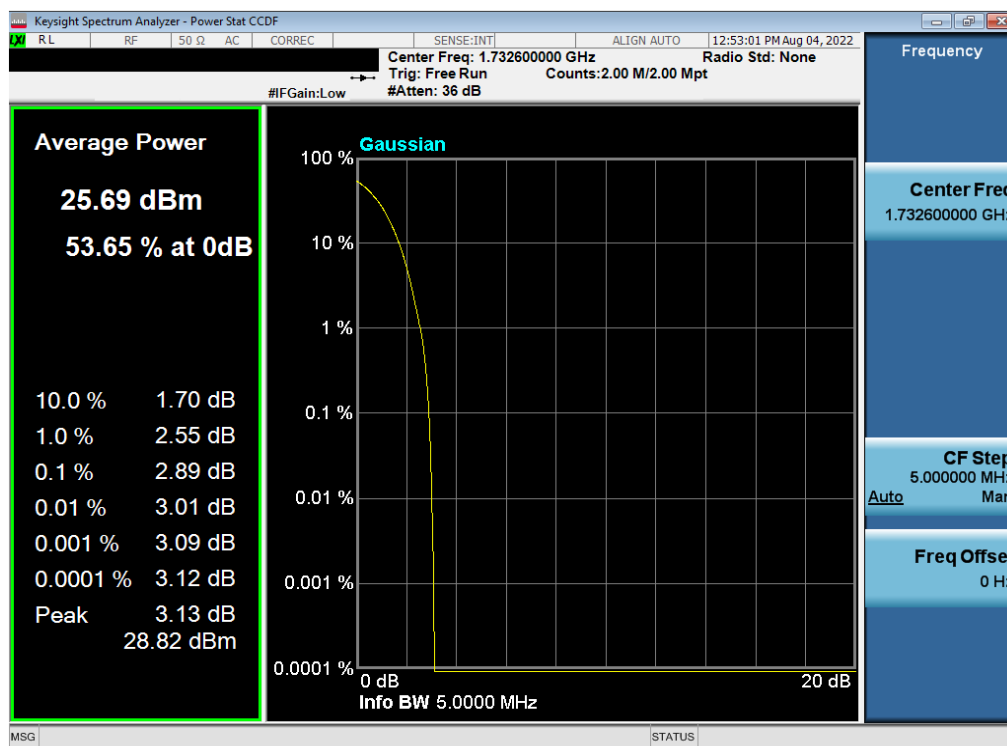
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Plot 7-443. PAR Plot (NR Band n70 - 15.0MHz DFT-s-OFDM 256-QAM - Full RB)

FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-444. PAR Plot (WCDMA, Ch. 1413)

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7.6 Radiated Power (ERP/EIRP)

§27.50(b)(10), §27.50(c)(10), §27.50(d)(4)

Test Overview

Effective Radiated Power (ERP) and Equivalent Isotropic Radiated Power (EIRP) measurements are calculated by adding highest antenna gain to maximum measured conducted output power. All measurements are performed as RMS average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.2.1

ANSI C63.26-2015 – Section 5.2.5.5

Test Settings

The relevant equation for determining the ERP or EIRP from the conducted RF output power measured is:

$$\text{ERP/EIRP} = \text{PMeas} - \text{LC} + \text{GT}$$

Where:

ERP/EIRP = Effective or Equivalent Isotropic Radiated Power, respectively (expressed in the same units as PMeas, typically dBW or dBm)

PMeas = measured transmitter output power or PSD, in dBW or dBm

LC = signal attenuation in the connecting cable between the transmitter and antenna in dB

GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP)

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

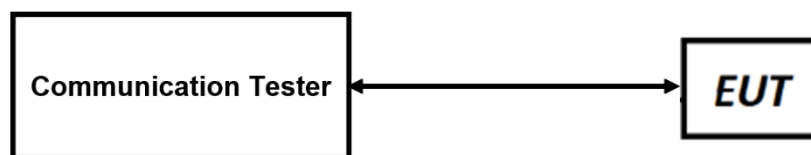




Figure 7-5. ERP/EIRP Measurement Setup

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Test Notes

1. The EUT was tested in all possible test configurations. The worst case emissions are reported with the EUT modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
2. This unit was tested with its standard battery.
3. The Level (dBm) readings in the table were taken with a correction table loaded into the base station simulator. The correction table was used to account for the signal attenuation in the connecting cable between the transmitter and antenna.
4. This device employs UMTS technology with WCDMA (AMR/RMC) and HSDPA capabilities. The EUT was tested under all configurations and the highest power is reported in WCDMA mode with HSDPA Inactive at 12.2 kbps RMC and TPC bits all set to "1."
5. The Ant. Gains (GT) are listed in dBi.
6. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

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7.6.1 Antenna 4b – EIRP

LTE Band 66

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	1710.7	-3.10	1 / 0	24.27	21.17	0.131	30.00	-8.83
		1745.0	-3.10	1 / 0	24.70	21.60	0.145	30.00	-8.40
		1779.3	-3.10	1 / 5	24.50	21.40	0.138	30.00	-8.60
	16-QAM	1745.0	-3.10	1 / 3	23.76	20.66	0.116	30.00	-9.34
	64-QAM	1745.0	-3.10	1 / 3	22.81	19.71	0.094	30.00	-10.29
	256-QAM	1710.7	-3.10	1 / 0	20.99	17.89	0.062	30.00	-12.11
3 MHz	QPSK	1711.5	-3.10	1 / 0	24.28	21.18	0.131	30.00	-8.82
		1745.0	-3.10	1 / 7	24.70	21.60	0.145	30.00	-8.40
		1778.5	-3.10	1 / 7	24.64	21.54	0.143	30.00	-8.46
	16-QAM	1745.0	-3.10	1 / 7	23.86	20.76	0.119	30.00	-9.24
	64-QAM	1778.5	-3.10	1 / 7	22.98	19.88	0.097	30.00	-10.12
	256-QAM	1711.5	-3.10	1 / 0	21.05	17.95	0.062	30.00	-12.05
5 MHz	QPSK	1712.5	-3.10	1 / 0	24.07	20.97	0.125	30.00	-9.03
		1745.0	-3.10	1 / 12	24.59	21.49	0.141	30.00	-8.51
		1777.5	-3.10	1 / 12	24.70	21.60	0.145	30.00	-8.40
	16-QAM	1745.0	-3.10	1 / 12	23.90	20.80	0.120	30.00	-9.20
	64-QAM	1777.5	-3.10	1 / 24	23.10	20.00	0.100	30.00	-10.00
	256-QAM	1712.5	-3.10	1 / 0	21.03	17.93	0.062	30.00	-12.07
10 MHz	QPSK	1715.0	-3.10	1 / 0	24.61	21.51	0.142	30.00	-8.49
		1745.0	-3.10	1 / 0	24.70	21.60	0.145	30.00	-8.40
		1775.0	-3.10	1 / 0	24.69	21.59	0.144	30.00	-8.41
	16-QAM	1775.0	-3.10	1 / 49	23.91	20.81	0.121	30.00	-9.19
	64-QAM	1745.0	-3.10	1 / 25	23.10	20.00	0.100	30.00	-10.00
	256-QAM	1715.0	-3.10	1 / 0	21.01	17.91	0.062	30.00	-12.09
15 MHz	QPSK	1717.5	-3.10	1 / 37	24.56	21.46	0.140	30.00	-8.54
		1745.0	-3.10	1 / 37	24.70	21.60	0.145	30.00	-8.40
		1772.5	-3.10	1 / 37	24.55	21.45	0.140	30.00	-8.55
	16-QAM	1717.5	-3.10	1 / 37	23.88	20.78	0.120	30.00	-9.22
	64-QAM	1717.5	-3.10	1 / 37	23.19	20.09	0.102	30.00	-9.91
	256-QAM	1772.5	-3.10	1 / 37	19.96	16.86	0.049	30.00	-13.14
20 MHz	QPSK	1720.0	-3.10	1 / 50	24.67	21.57	0.144	30.00	-8.43
		1745.0	-3.10	1 / 50	24.64	21.54	0.143	30.00	-8.46
		1770.0	-3.10	1 / 50	24.70	21.60	0.145	30.00	-8.40
	16-QAM	1720.0	-3.10	1 / 50	24.18	21.08	0.128	30.00	-8.92
	64-QAM	1745.0	-3.10	1 / 0	23.28	20.18	0.104	30.00	-9.82
	256-QAM	1770.0	-3.10	1 / 0	20.66	17.56	0.057	30.00	-12.44

Table 7-2. Antenna 4b EIRP Data (LTE Band 66)

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LTE Band 4

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	1710.7	-3.10	1 / 3	25.53	22.43	0.175	30.00	-7.57
		1732.5	-3.10	1 / 3	25.70	22.60	0.182	30.00	-7.40
		1754.3	-3.10	1 / 3	25.44	22.34	0.171	30.00	-7.66
	16-QAM	1732.5	-3.10	1 / 5	24.77	21.67	0.147	30.00	-8.33
	64-QAM	1754.3	-3.10	1 / 3	24.00	20.90	0.123	30.00	-9.10
	256-QAM	1710.7	-3.10	1 / 3	21.11	18.01	0.063	30.00	-11.99
3 MHz	QPSK	1711.5	-3.10	1 / 14	25.45	22.35	0.172	30.00	-7.65
		1732.5	-3.10	1 / 7	25.70	22.60	0.182	30.00	-7.40
		1753.5	-3.10	1 / 7	25.65	22.55	0.180	30.00	-7.45
	16-QAM	1732.5	-3.10	1 / 7	24.92	21.82	0.152	30.00	-8.18
	64-QAM	1753.5	-3.10	1 / 7	23.90	20.80	0.120	30.00	-9.20
	256-QAM	1732.5	-3.10	1 / 0	21.14	18.04	0.064	30.00	-11.96
5 MHz	QPSK	1712.5	-3.10	1 / 12	25.56	22.46	0.176	30.00	-7.54
		1732.5	-3.10	1 / 12	25.70	22.60	0.182	30.00	-7.40
		1752.5	-3.10	1 / 12	25.61	22.51	0.178	30.00	-7.49
	16-QAM	1732.5	-3.10	1 / 12	24.85	21.75	0.150	30.00	-8.25
	64-QAM	1732.5	-3.10	1 / 12	24.23	21.13	0.130	30.00	-8.87
	256-QAM	1712.5	-3.10	1 / 12	21.21	18.11	0.065	30.00	-11.89
10 MHz	QPSK	1715.0	-3.10	1 / 25	25.59	22.49	0.177	30.00	-7.51
		1732.5	-3.10	1 / 25	25.70	22.60	0.182	30.00	-7.40
		1750.0	-3.10	1 / 0	25.61	22.51	0.178	30.00	-7.49
	16-QAM	1715.0	-3.10	1 / 25	24.76	21.66	0.147	30.00	-8.34
	64-QAM	1715.0	-3.10	1 / 25	24.22	21.12	0.129	30.00	-8.88
	256-QAM	1715.0	-3.10	1 / 25	21.20	18.10	0.065	30.00	-11.90
15 MHz	QPSK	1717.5	-3.10	1 / 0	25.66	22.56	0.180	30.00	-7.44
		1732.5	-3.10	1 / 37	25.70	22.60	0.182	30.00	-7.40
		1747.5	-3.10	1 / 37	25.52	22.42	0.175	30.00	-7.58
	16-QAM	1732.5	-3.10	1 / 37	24.91	21.81	0.152	30.00	-8.19
	64-QAM	1747.5	-3.10	1 / 37	24.22	21.12	0.129	30.00	-8.88
	256-QAM	1732.5	-3.10	1 / 0	21.02	17.92	0.062	30.00	-12.08
20 MHz	QPSK	1720.0	-3.10	1 / 50	25.34	22.24	0.167	30.00	-7.76
		1732.5	-3.10	1 / 50	25.70	22.60	0.182	30.00	-7.40
		1745.0	-3.10	1 / 50	25.63	22.53	0.179	30.00	-7.47
	16-QAM	1745.0	-3.10	1 / 50	24.94	21.84	0.153	30.00	-8.16
	64-QAM	1732.5	-3.10	1 / 50	24.02	20.92	0.124	30.00	-9.08
	256-QAM	1720.0	-3.10	1 / 0	21.16	18.06	0.064	30.00	-11.94

Table 7-3. Port 4b EIRP Data (LTE Band 4)

FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n66

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	$\pi/2$ BPSK	1712.5	-3.10	1 / 1	24.30	21.20	0.132	30.00	-8.80
		1745.0	-3.10	1 / 12	24.41	21.31	0.135	30.00	-8.69
		1777.5	-3.10	1 / 12	24.11	21.01	0.126	30.00	-8.99
	QPSK	1712.5	-3.10	1 / 23	24.45	21.35	0.136	30.00	-8.65
		1745.0	-3.10	1 / 23	24.05	20.95	0.124	30.00	-9.05
		1777.5	-3.10	1 / 1	24.38	21.28	0.134	30.00	-8.72
	16-QAM	1712.5	-3.10	1 / 23	23.61	20.51	0.112	30.00	-9.49
	64-QAM	1745.0	-3.10	1 / 23	22.02	18.92	0.078	30.00	-11.08
	256-QAM	1777.5	-3.10	1 / 12	20.46	17.36	0.054	30.00	-12.64
10 MHz	$\pi/2$ BPSK	1715.0	-3.10	1 / 25	24.25	21.15	0.130	30.00	-8.85
		1745.0	-3.10	1 / 25	24.31	21.21	0.132	30.00	-8.79
		1775.0	-3.10	1 / 1	24.70	21.60	0.145	30.00	-8.40
	QPSK	1715.0	-3.10	1 / 50	24.39	21.29	0.134	30.00	-8.71
		1745.0	-3.10	1 / 1	24.50	21.40	0.138	30.00	-8.60
		1775.0	-3.10	1 / 25	24.37	21.27	0.134	30.00	-8.73
	16-QAM	1775.0	-3.10	1 / 25	23.71	20.61	0.115	30.00	-9.39
	64-QAM	1775.0	-3.10	1 / 25	22.54	19.44	0.088	30.00	-10.56
	256-QAM	1775.0	-3.10	1 / 50	19.84	16.74	0.047	30.00	-13.26
15 MHz	$\pi/2$ BPSK	1717.5	-3.10	1 / 77	24.61	21.51	0.142	30.00	-8.49
		1745.0	-3.10	1 / 1	24.70	21.60	0.145	30.00	-8.40
		1772.5	-3.10	1 / 77	24.47	21.37	0.137	30.00	-8.63
	QPSK	1717.5	-3.10	1 / 77	24.32	21.22	0.133	30.00	-8.78
		1745.0	-3.10	1 / 77	24.66	21.56	0.143	30.00	-8.44
		1772.5	-3.10	1 / 77	24.45	21.35	0.137	30.00	-8.65
	16-QAM	1772.5	-3.10	1 / 77	23.81	20.71	0.118	30.00	-9.29
	64-QAM	1772.5	-3.10	1 / 77	22.45	19.35	0.086	30.00	-10.65
	256-QAM	1772.5	-3.10	1 / 1	19.93	16.83	0.048	30.00	-13.17
20 MHz	$\pi/2$ BPSK	1720.0	-3.10	1 / 1	24.51	21.41	0.138	30.00	-8.59
		1745.0	-3.10	1 / 1	24.51	21.41	0.138	30.00	-8.59
		1770.0	-3.10	1 / 1	24.40	21.30	0.135	30.00	-8.70
	QPSK	1720.0	-3.10	1 / 1	24.05	20.95	0.124	30.00	-9.05
		1745.0	-3.10	1 / 104	24.44	21.34	0.136	30.00	-8.66
		1770.0	-3.10	1 / 104	24.63	21.53	0.142	30.00	-8.47
	16-QAM	1720.0	-3.10	1 / 50	23.66	20.56	0.114	30.00	-9.44
	64-QAM	1770.0	-3.10	1 / 104	22.21	19.11	0.082	30.00	-10.89
	256-QAM	1720.0	-3.10	1 / 104	20.17	17.07	0.051	30.00	-12.93
30 MHz	$\pi/2$ BPSK	1725.0	-3.10	1 / 80	24.56	21.46	0.140	30.00	-8.54
		1745.0	-3.10	1 / 1	24.33	21.23	0.133	30.00	-8.77
		1765.0	-3.10	1 / 158	24.70	21.60	0.145	30.00	-8.40
	QPSK	1725.0	-3.10	1 / 158	24.51	21.41	0.138	30.00	-8.59
		1745.0	-3.10	1 / 80	24.38	21.28	0.134	30.00	-8.72
		1765.0	-3.10	1 / 158	24.62	21.52	0.142	30.00	-8.48
	16-QAM	1725.0	-3.10	1 / 80	23.76	20.66	0.116	30.00	-9.34
	64-QAM	1765.0	-3.10	1 / 158	22.61	19.51	0.089	30.00	-10.49
	256-QAM	1765.0	-3.10	1 / 158	20.20	17.10	0.051	30.00	-12.90
40 MHz	$\pi/2$ BPSK	1730.0	-3.10	1 / 214	24.50	21.40	0.138	30.00	-8.60
		1745.0	-3.10	1 / 214	24.26	21.16	0.131	30.00	-8.84
		1760.0	-3.10	1 / 108	24.29	21.19	0.131	30.00	-8.81
	QPSK	1730.0	-3.10	1 / 108	24.69	21.59	0.144	30.00	-8.41
		1745.0	-3.10	1 / 1	24.70	21.60	0.145	30.00	-8.40
		1760.0	-3.10	1 / 214	24.29	21.19	0.131	30.00	-8.81
	16-QAM	1730.0	-3.10	1 / 108	23.92	20.82	0.121	30.00	-9.18
	64-QAM	1730.0	-3.10	1 / 214	22.45	19.35	0.086	30.00	-10.65
	256-QAM	1760.0	-3.10	1 / 214	20.21	17.11	0.051	30.00	-12.89

Table 7-4. Antenna 4b EIRP Data (NR Band n66)

FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n70

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	$\pi/2$ BPSK	1697.5	-3.10	1 / 0	25.23	22.13	0.163	30.00	-7.87
		1702.5	-3.10	1 / 24	24.84	21.74	0.149	30.00	-8.26
		1707.5	-3.10	1 / 12	25.02	21.92	0.155	30.00	-8.08
	QPSK	1697.5	-3.10	1 / 0	24.59	21.49	0.141	30.00	-8.51
		1702.5	-3.10	1 / 0	24.47	21.37	0.137	30.00	-8.63
		1707.5	-3.10	1 / 0	24.15	21.05	0.127	30.00	-8.95
	16-QAM	1697.5	-3.10	1 / 0	23.86	20.76	0.119	30.00	-9.24
	64-QAM	1697.5	-3.10	1 / 0	23.10	20.00	0.100	30.00	-10.00
	256-QAM	1697.5	-3.10	1 / 0	20.82	17.72	0.059	30.00	-12.28
10 MHz	$\pi/2$ BPSK	1700.0	-3.10	1 / 0	25.07	21.97	0.157	30.00	-8.03
		1702.5	-3.10	1 / 49	25.09	21.99	0.158	30.00	-8.01
		1705.0	-3.10	1 / 0	25.36	22.26	0.168	30.00	-7.74
	QPSK	1700.0	-3.10	1 / 0	24.95	21.85	0.153	30.00	-8.15
		1702.5	-3.10	1 / 0	24.76	21.66	0.146	30.00	-8.34
		1705.0	-3.10	1 / 0	24.03	20.93	0.124	30.00	-9.07
	16-QAM	1700.0	-3.10	1 / 0	24.03	20.93	0.124	30.00	-9.07
	64-QAM	1700.0	-3.10	1 / 0	22.80	19.70	0.093	30.00	-10.30
15 MHz	256-QAM	1700.0	-3.10	1 / 49	20.63	17.53	0.057	30.00	-12.47
	$\pi/2$ BPSK	1702.5	-3.10	1 / 37	25.28	22.18	0.165	30.00	-7.82
		1702.5	-3.10	1 / 37	25.06	21.96	0.157	30.00	-8.04
		1702.5	-3.10	1 / 37	24.11	21.01	0.126	30.00	-8.99
	16-QAM	1702.5	-3.10	1 / 0	22.67	19.57	0.091	30.00	-10.43
	64-QAM	1702.5	-3.10	1 / 0	22.67	19.57	0.091	30.00	-10.43
	256-QAM	1702.5	-3.10	1 / 74	20.61	17.51	0.056	30.00	-12.49
	256-QAM	1702.5	-3.10	1 / 74	20.61	17.51	0.056	30.00	-12.49

Table 7-5. Antenna 4b EIRP Data (NR Band n70)


FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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WCDMA AWS

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1712.40	WCDMA1700	25.69	-3.10	22.59	0.182	30.00	-7.41
1732.60	WCDMA1700	25.67	-3.10	22.57	0.181	30.00	-7.43
1752.60	WCDMA1700	25.60	-3.10	22.50	0.178	30.00	-7.50

Table 7-6. Antenna 4b EIRP Data (WCDMA AWS)

FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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7.6.2 Antenna 1 – ERP/EIRP

LTE Band 66

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	1710.7	0.40	1 / 0	25.58	25.98	0.396	30.00	-4.02
		1745.0	0.40	1 / 3	25.69	26.09	0.406	30.00	-3.91
		1779.3	0.40	1 / 3	25.70	26.10	0.407	30.00	-3.90
	16-QAM	1710.7	0.40	1 / 0	24.78	25.18	0.330	30.00	-4.82
	64-QAM	1779.3	0.40	1 / 3	23.83	24.23	0.265	30.00	-5.77
	256-QAM	1710.7	0.40	1 / 0	21.31	21.71	0.148	30.00	-8.29
3 MHz	QPSK	1711.5	0.40	1 / 7	25.65	26.05	0.403	30.00	-3.95
		1745.0	0.40	1 / 7	25.70	26.10	0.407	30.00	-3.90
		1778.5	0.40	1 / 7	25.64	26.04	0.402	30.00	-3.96
	16-QAM	1711.5	0.40	1 / 7	24.88	25.28	0.337	30.00	-4.72
	64-QAM	1745.0	0.40	1 / 7	23.97	24.37	0.274	30.00	-5.63
	256-QAM	1711.5	0.40	1 / 0	21.29	21.69	0.148	30.00	-8.31
5 MHz	QPSK	1712.5	0.40	1 / 12	25.70	26.10	0.407	30.00	-3.90
		1745.0	0.40	1 / 12	25.59	25.99	0.397	30.00	-4.01
		1777.5	0.40	1 / 0	25.50	25.90	0.389	30.00	-4.10
	16-QAM	1712.5	0.40	1 / 0	24.75	25.15	0.327	30.00	-4.85
		1745.0	0.40	1 / 0	24.75	25.15	0.327	30.00	-4.85
	64-QAM	1745.0	0.40	1 / 0	23.90	24.30	0.269	30.00	-5.70
10 MHz	QPSK	1712.5	0.40	1 / 0	21.30	21.70	0.148	30.00	-8.30
		1715.0	0.40	1 / 25	25.58	25.98	0.396	30.00	-4.02
		1745.0	0.40	1 / 25	25.65	26.05	0.403	30.00	-3.95
	16-QAM	1775.0	0.40	1 / 49	25.70	26.10	0.407	30.00	-3.90
		1745.0	0.40	1 / 25	24.84	25.24	0.334	30.00	-4.76
		1775.0	0.40	1 / 25	23.95	24.35	0.272	30.00	-5.65
15 MHz	QPSK	1745.0	0.40	1 / 0	21.33	21.73	0.149	30.00	-8.27
		1717.5	0.40	1 / 37	25.68	26.08	0.406	30.00	-3.92
		1745.0	0.40	1 / 37	25.70	26.10	0.407	30.00	-3.90
	16-QAM	1772.5	0.40	1 / 37	25.58	25.98	0.396	30.00	-4.02
		1717.5	0.40	1 / 37	24.79	25.19	0.330	30.00	-4.81
		1745.0	0.40	1 / 37	24.04	24.44	0.278	30.00	-5.56
20 MHz	QPSK	1745.0	0.40	1 / 0	21.20	21.60	0.145	30.00	-8.40
		1720.0	0.40	1 / 50	25.39	25.79	0.379	30.00	-4.21
		1745.0	0.40	1 / 50	25.70	26.10	0.407	30.00	-3.90
	16-QAM	1770.0	0.40	1 / 50	25.64	26.04	0.402	30.00	-3.96
		1745.0	0.40	1 / 50	25.05	25.45	0.351	30.00	-4.55
		1720.0	0.40	1 / 50	23.89	24.29	0.269	30.00	-5.71
256-QAM	QPSK	1770.0	0.40	1 / 0	21.15	21.55	0.143	30.00	-8.45

Table 7-7. Antenna 1 EIRP Data (LTE Band 66)

FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 4

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	1710.7	0.40	1 / 3	25.52	25.92	0.391	30.00	-4.08
		1732.5	0.40	1 / 3	25.60	26.00	0.398	30.00	-4.00
		1754.3	0.40	1 / 3	25.70	26.10	0.407	30.00	-3.90
	16-QAM	1710.7	0.40	1 / 3	24.71	25.11	0.324	30.00	-4.89
	64-QAM	1754.3	0.40	1 / 0	23.92	24.32	0.270	30.00	-5.68
	256-QAM	1732.5	0.40	1 / 0	21.32	21.72	0.149	30.00	-8.28
3 MHz	QPSK	1711.5	0.40	1 / 7	25.67	26.07	0.405	30.00	-3.93
		1732.5	0.40	1 / 7	25.70	26.10	0.407	30.00	-3.90
		1753.5	0.40	1 / 7	25.63	26.03	0.401	30.00	-3.97
	16-QAM	1732.5	0.40	1 / 7	24.83	25.23	0.333	30.00	-4.77
	64-QAM	1732.5	0.40	1 / 7	23.95	24.35	0.272	30.00	-5.65
	256-QAM	1753.5	0.40	1 / 0	21.37	21.77	0.150	30.00	-8.23
5 MHz	QPSK	1712.5	0.40	1 / 12	25.70	26.10	0.407	30.00	-3.90
		1732.5	0.40	1 / 12	25.68	26.08	0.406	30.00	-3.92
		1752.5	0.40	1 / 12	25.58	25.98	0.396	30.00	-4.02
	16-QAM	1712.5	0.40	1 / 24	24.97	25.37	0.344	30.00	-4.63
	64-QAM	1712.5	0.40	1 / 12	23.99	24.39	0.275	30.00	-5.61
	256-QAM	1752.5	0.40	1 / 0	21.42	21.82	0.152	30.00	-8.18
10 MHz	QPSK	1715.0	0.40	1 / 25	25.57	25.97	0.395	30.00	-4.03
		1732.5	0.40	1 / 0	25.70	26.10	0.407	30.00	-3.90
		1750.0	0.40	1 / 25	25.59	25.99	0.397	30.00	-4.01
	16-QAM	1732.5	0.40	1 / 0	24.81	25.21	0.332	30.00	-4.79
	64-QAM	1750.0	0.40	1 / 25	24.16	24.56	0.286	30.00	-5.44
	256-QAM	1715.0	0.40	1 / 0	21.31	21.71	0.148	30.00	-8.29
15 MHz	QPSK	1717.5	0.40	1 / 37	25.69	26.09	0.406	30.00	-3.91
		1732.5	0.40	1 / 37	25.70	26.10	0.407	30.00	-3.90
		1747.5	0.40	1 / 37	25.58	25.98	0.396	30.00	-4.02
	16-QAM	1717.5	0.40	1 / 37	24.95	25.35	0.343	30.00	-4.65
	64-QAM	1747.5	0.40	1 / 37	24.15	24.55	0.285	30.00	-5.45
	256-QAM	1732.5	0.40	1 / 0	21.18	21.58	0.144	30.00	-8.42
		1747.5	0.40	1 / 0	21.18	21.58	0.144	30.00	-8.42
20 MHz	QPSK	1720.0	0.40	1 / 50	25.37	25.77	0.378	30.00	-4.23
		1732.5	0.40	1 / 50	25.70	26.10	0.407	30.00	-3.90
		1745.0	0.40	1 / 50	25.65	26.05	0.403	30.00	-3.95
	16-QAM	1745.0	0.40	1 / 50	24.86	25.26	0.336	30.00	-4.74
	64-QAM	1732.5	0.40	1 / 50	23.72	24.12	0.258	30.00	-5.88
	256-QAM	1745.0	0.40	1 / 0	21.14	21.54	0.143	30.00	-8.46

Table 7-8. Antenna 1 EIRP Data (LTE Band 4)

FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 71

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	665.5	-1.90	1 / 0	23.90	19.85	0.097	34.77	-14.92	22.00	0.158	36.99	-14.99
		680.5	-1.90	1 / 0	23.89	19.84	0.096	34.77	-14.93	21.99	0.158	36.99	-15.00
		695.5	-1.90	1 / 12	23.90	19.85	0.097	34.77	-14.92	22.00	0.158	36.99	-14.99
	16-QAM	665.5	-1.90	1 / 0	22.93	18.88	0.077	34.77	-15.89	21.03	0.127	36.99	-15.96
	64-QAM	680.5	-1.90	1 / 0	21.95	17.90	0.062	34.77	-16.87	20.05	0.101	36.99	-16.94
10 MHz	QPSK	665.5	-1.90	1 / 0	19.90	15.85	0.038	34.77	-18.92	18.00	0.063	36.99	-18.99
		668.0	-1.90	1 / 0	23.90	19.85	0.097	34.77	-14.92	22.00	0.158	36.99	-14.99
		680.5	-1.90	1 / 0	23.89	19.84	0.096	34.77	-14.93	21.99	0.158	36.99	-15.00
	16-QAM	693.0	-1.90	1 / 0	23.90	19.85	0.097	34.77	-14.92	22.00	0.158	36.99	-14.99
	64-QAM	693.0	-1.90	1 / 49	23.21	19.16	0.082	34.77	-15.61	21.31	0.135	36.99	-15.68
15 MHz	QPSK	693.0	-1.90	1 / 25	22.25	18.20	0.066	34.77	-16.57	20.35	0.108	36.99	-16.64
		680.5	-1.90	1 / 0	19.93	15.88	0.039	34.77	-18.89	18.03	0.064	36.99	-18.96
		670.5	-1.90	1 / 0	23.90	19.85	0.097	34.77	-14.92	22.00	0.158	36.99	-14.99
	16-QAM	680.5	-1.90	1 / 37	23.89	19.84	0.096	34.77	-14.93	21.99	0.158	36.99	-15.00
	64-QAM	690.5	-1.90	1 / 37	23.80	19.75	0.094	34.77	-15.02	21.90	0.155	36.99	-15.09
20 MHz	QPSK	690.5	-1.90	1 / 37	23.28	19.23	0.084	34.77	-15.54	21.38	0.137	36.99	-15.61
		680.5	-1.90	1 / 37	22.46	18.41	0.069	34.77	-16.36	20.56	0.114	36.99	-16.43
		670.5	-1.90	1 / 0	19.81	15.76	0.038	34.77	-19.01	17.91	0.062	36.99	-19.08
	16-QAM	673.0	-1.90	1 / 0	23.83	19.78	0.095	34.77	-14.99	21.93	0.156	36.99	-15.06
	64-QAM	680.5	-1.90	1 / 0	23.83	19.78	0.095	34.77	-14.99	21.93	0.156	36.99	-15.06
25 MHz	QPSK	688.0	-1.90	1 / 50	23.90	19.85	0.097	34.77	-14.92	22.00	0.158	36.99	-14.99
		680.5	-1.90	1 / 50	23.19	19.14	0.082	34.77	-15.63	21.29	0.135	36.99	-15.70
		673.0	-1.90	1 / 50	21.88	17.83	0.061	34.77	-16.94	19.98	0.100	36.99	-17.01
	16-QAM	673.0	-1.90	1 / 0	19.84	15.79	0.038	34.77	-18.98	17.94	0.062	36.99	-19.05
	64-QAM	673.0	-1.90	1 / 0	19.84	15.79	0.038	34.77	-18.98	17.94	0.062	36.99	-19.05

Table 7-9. Antenna 1 ERP/EIRP Data (LTE Band 71)

FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 12

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	699.7	-1.90	1 / 3	23.89	19.84	0.096	34.77	-14.93	21.99	0.158	36.99	-15.00
		707.5	-1.90	1 / 0	23.88	19.83	0.096	34.77	-14.94	21.98	0.158	36.99	-15.01
		715.3	-1.90	1 / 3	23.90	19.85	0.097	34.77	-14.92	22.00	0.158	36.99	-14.99
	16-QAM	715.3	-1.90	1 / 0	23.56	19.51	0.089	34.77	-15.26	21.66	0.147	36.99	-15.33
	64-QAM	715.3	-1.90	1 / 0	22.55	18.50	0.071	34.77	-16.27	20.65	0.116	36.99	-16.34
	256-QAM	707.5	-1.90	1 / 0	19.99	15.94	0.039	34.77	-18.83	18.09	0.064	36.99	-18.90
3 MHz	QPSK	700.5	-1.90	1 / 0	23.85	19.80	0.095	34.77	-14.97	21.95	0.157	36.99	-15.04
		707.5	-1.90	1 / 7	23.76	19.71	0.094	34.77	-15.06	21.86	0.153	36.99	-15.13
		714.5	-1.90	1 / 7	23.90	19.85	0.097	34.77	-14.92	22.00	0.158	36.99	-14.99
	16-QAM	707.5	-1.90	1 / 7	23.51	19.46	0.088	34.77	-15.31	21.61	0.145	36.99	-15.38
	64-QAM	714.5	-1.90	1 / 0	22.60	18.55	0.072	34.77	-16.22	20.70	0.117	36.99	-16.29
	256-QAM	700.5	-1.90	1 / 0	19.89	15.84	0.038	34.77	-18.93	17.99	0.063	36.99	-19.00
5 MHz	QPSK	701.5	-1.90	1 / 0	23.78	19.73	0.094	34.77	-15.04	21.88	0.154	36.99	-15.11
		707.5	-1.90	1 / 24	23.87	19.82	0.096	34.77	-14.95	21.97	0.157	36.99	-15.02
		713.5	-1.90	1 / 0	23.90	19.85	0.097	34.77	-14.92	22.00	0.158	36.99	-14.99
	16-QAM	707.5	-1.90	1 / 12	23.52	19.47	0.089	34.77	-15.30	21.62	0.145	36.99	-15.37
	64-QAM	713.5	-1.90	1 / 12	22.73	18.68	0.074	34.77	-16.09	20.83	0.121	36.99	-16.16
	256-QAM	713.5	-1.90	1 / 0	20.01	15.96	0.039	34.77	-18.81	18.11	0.065	36.99	-18.88
10 MHz	QPSK	704.0	-1.90	1 / 49	23.90	19.85	0.097	34.77	-14.92	22.00	0.158	36.99	-14.99
		707.5	-1.90	1 / 0	23.85	19.80	0.095	34.77	-14.97	21.95	0.157	36.99	-15.04
		711.0	-1.90	1 / 49	23.78	19.73	0.094	34.77	-15.04	21.88	0.154	36.99	-15.11
	16-QAM	707.5	-1.90	1 / 25	23.52	19.47	0.089	34.77	-15.30	21.62	0.145	36.99	-15.37
	64-QAM	711.0	-1.90	1 / 25	22.56	18.51	0.071	34.77	-16.26	20.66	0.116	36.99	-16.33
	256-QAM	704.0	-1.90	1 / 0	19.95	15.90	0.039	34.77	-18.87	18.05	0.064	36.99	-18.94

Table 7-10. Antenna 1 ERP/EIRP Data (LTE Band 12)


FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 17

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	706.5	-1.90	1 / 0	23.88	19.83	0.096	34.77	-14.94	21.98	0.158	36.99	-15.01
		710.0	-1.90	1 / 12	23.82	19.77	0.095	34.77	-15.00	21.92	0.156	36.99	-15.07
		713.5	-1.90	1 / 0	23.90	19.85	0.097	34.77	-14.92	22.00	0.158	36.99	-14.99
	16-QAM 64-QAM	710.0	-1.90	1 / 24	23.53	19.48	0.089	34.77	-15.29	21.63	0.146	36.99	-15.36
		713.5	-1.90	1 / 0	22.41	18.36	0.069	34.77	-16.41	20.51	0.112	36.99	-16.48
10 MHz	256-QAM	706.5	-1.90	1 / 0	19.98	15.93	0.039	34.77	-18.84	18.08	0.064	36.99	-18.91
		709.0	-1.90	1 / 49	23.90	19.85	0.097	34.77	-14.92	22.00	0.158	36.99	-14.99
	QPSK	710.0	-1.90	1 / 0	23.86	19.81	0.096	34.77	-14.96	21.96	0.157	36.99	-15.03
		711.0	-1.90	1 / 25	23.80	19.75	0.094	34.77	-15.02	21.90	0.155	36.99	-15.09
		711.0	-1.90	1 / 25	23.41	19.36	0.086	34.77	-15.41	21.51	0.142	36.99	-15.48
	16-QAM	711.0	-1.90	1 / 25	22.54	18.49	0.071	34.77	-16.28	20.64	0.116	36.99	-16.35
		710.0	-1.90	1 / 0	19.94	15.89	0.039	34.77	-18.88	18.04	0.064	36.99	-18.95
	256-QAM	710.0	-1.90	1 / 0	19.94	15.89	0.039	34.77	-18.88	18.04	0.064	36.99	-18.95

Table 7-11. Antenna 1 ERP/EIRP Data (LTE Band 17)


FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 13

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	779.5	-1.50	1 / 12	23.90	20.25	0.106	34.77	-14.52	22.40	0.174	36.99	-14.59
		782.0	-1.50	1 / 0	23.80	20.15	0.104	34.77	-14.62	22.30	0.170	36.99	-14.69
		784.5	-1.50	1 / 0	23.81	20.16	0.104	34.77	-14.61	22.31	0.170	36.99	-14.68
	16-QAM	779.5	-1.50	1 / 0	22.93	19.28	0.085	34.77	-15.49	21.43	0.139	36.99	-15.56
	64-QAM	779.5	-1.50	1 / 24	22.00	18.35	0.068	34.77	-16.42	20.50	0.112	36.99	-16.49
	256-QAM	779.5	-1.50	1 / 0	19.92	16.27	0.042	34.77	-18.50	18.42	0.070	36.99	-18.57
10 MHz	QPSK	782.0	-1.50	1 / 0	23.90	20.25	0.106	34.77	-14.52	22.40	0.174	36.99	-14.59
	16-QAM	782.0	-1.50	1 / 49	23.89	20.24	0.106	34.77	-14.53	22.39	0.173	36.99	-14.60
	64-QAM	782.0	-1.50	1 / 25	22.81	19.16	0.082	34.77	-15.61	21.31	0.135	36.99	-15.68
	256-QAM	782.0	-1.50	1 / 0	19.89	16.24	0.042	34.77	-18.53	18.39	0.069	36.99	-18.60

Table 7-12. Antenna 1 ERP/EIRP Data (LTE Band 13)


FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n66

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	π/2 BPSK	1712.5	0.40	1 / 1	25.29	25.69	0.371	30.00	-4.31
		1745.0	0.40	1 / 23	25.05	25.45	0.351	30.00	-4.55
		1777.5	0.40	1 / 12	24.71	25.11	0.325	30.00	-4.89
	QPSK	1712.5	0.40	1 / 23	25.19	25.59	0.362	30.00	-4.41
		1745.0	0.40	1 / 23	25.30	25.70	0.371	30.00	-4.30
		1777.5	0.40	1 / 23	24.86	25.26	0.336	30.00	-4.74
	16-QAM	1712.5	0.40	1 / 12	24.53	24.93	0.311	30.00	-5.07
10 MHz	π/2 BPSK	1715.0	0.40	1 / 25	25.33	25.73	0.374	30.00	-4.27
		1745.0	0.40	1 / 25	24.90	25.30	0.339	30.00	-4.70
		1775.0	0.40	1 / 50	25.12	25.52	0.357	30.00	-4.48
	QPSK	1715.0	0.40	1 / 25	25.30	25.70	0.371	30.00	-4.30
		1745.0	0.40	1 / 25	24.92	25.32	0.340	30.00	-4.68
		1775.0	0.40	1 / 50	24.79	25.19	0.331	30.00	-4.81
	16-QAM	1715.0	0.40	1 / 1	24.52	24.92	0.311	30.00	-5.08
15 MHz	π/2 BPSK	1717.5	0.40	1 / 1	25.46	25.86	0.386	30.00	-4.14
		1745.0	0.40	1 / 37	25.29	25.69	0.371	30.00	-4.31
		1772.5	0.40	1 / 37	25.07	25.47	0.352	30.00	-4.53
	QPSK	1717.5	0.40	1 / 77	25.50	25.90	0.389	30.00	-4.10
		1745.0	0.40	1 / 77	25.58	25.98	0.396	30.00	-4.02
		1772.5	0.40	1 / 77	25.01	25.41	0.347	30.00	-4.59
	16-QAM	1717.5	0.40	1 / 1	24.60	25.00	0.317	30.00	-5.00
20 MHz	π/2 BPSK	1720.0	0.40	1 / 104	25.22	25.62	0.365	30.00	-4.38
		1745.0	0.40	1 / 1	25.34	25.74	0.375	30.00	-4.26
		1770.0	0.40	1 / 50	25.02	25.42	0.349	30.00	-4.58
	QPSK	1720.0	0.40	1 / 1	25.11	25.51	0.356	30.00	-4.49
		1745.0	0.40	1 / 50	25.08	25.48	0.353	30.00	-4.52
		1770.0	0.40	1 / 50	24.91	25.31	0.340	30.00	-4.69
	16-QAM	1745.0	0.40	1 / 104	24.64	25.04	0.319	30.00	-4.96
30 MHz	π/2 BPSK	1725.0	0.40	1 / 1	25.38	25.78	0.378	30.00	-4.22
		1745.0	0.40	1 / 80	25.26	25.66	0.368	30.00	-4.34
		1765.0	0.40	1 / 1	25.01	25.41	0.348	30.00	-4.59
	QPSK	1725.0	0.40	1 / 158	25.20	25.60	0.363	30.00	-4.40
		1745.0	0.40	1 / 1	25.21	25.61	0.364	30.00	-4.39
		1765.0	0.40	1 / 1	24.98	25.38	0.345	30.00	-4.62
	16-QAM	1765.0	0.40	1 / 1	24.79	25.19	0.330	30.00	-4.81
40 MHz	π/2 BPSK	1730.0	0.40	1 / 214	25.09	25.49	0.354	30.00	-4.51
		1745.0	0.40	1 / 1	25.15	25.55	0.359	30.00	-4.45
		1760.0	0.40	1 / 214	25.28	25.68	0.370	30.00	-4.32
	QPSK	1730.0	0.40	1 / 1	25.28	25.68	0.370	30.00	-4.32
		1745.0	0.40	1 / 108	25.35	25.75	0.376	30.00	-4.25
		1760.0	0.40	1 / 108	25.23	25.63	0.365	30.00	-4.37
	16-QAM	1745.0	0.40	1 / 214	24.54	24.94	0.312	30.00	-5.06
5 MHz	64-QAM	1745.0	0.40	1 / 1	23.41	23.81	0.241	30.00	-6.19
	256-QAM	1760.0	0.40	1 / 214	20.74	21.14	0.130	30.00	-8.86

Table 7-13. Antenna 1 EIRP Data (NR Band n66)


FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2205090025-03.BCG	Test Dates: 05/30/2022 - 08/29/2022	EUT Type: Tablet Device		Page 265 of 338

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NR Band n70

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	$\pi/2$ BPSK	1697.5	-1.60	1 / 24	25.05	23.45	0.221	30.00	-6.55
		1702.5	-1.60	1 / 0	25.25	23.65	0.232	30.00	-6.35
		1707.5	-1.60	1 / 12	25.18	23.58	0.228	30.00	-6.42
	QPSK	1697.5	-1.60	1 / 12	25.31	23.71	0.235	30.00	-6.29
		1702.5	-1.60	1 / 12	25.04	23.44	0.221	30.00	-6.56
		1707.5	-1.60	1 / 0	25.29	23.69	0.234	30.00	-6.31
	16-QAM	1697.5	-1.60	1 / 0	24.57	22.97	0.198	30.00	-7.03
	64-QAM	1707.5	-1.60	1 / 0	22.96	21.36	0.137	30.00	-8.64
	256-QAM	1707.5	-1.60	1 / 0	20.47	18.87	0.077	30.00	-11.13
10 MHz	$\pi/2$ BPSK	1700.0	-1.60	1 / 0	24.90	23.30	0.214	30.00	-6.70
		1702.5	-1.60	1 / 25	25.23	23.63	0.231	30.00	-6.37
		1705.0	-1.60	1 / 0	24.87	23.27	0.212	30.00	-6.73
	QPSK	1700.0	-1.60	1 / 0	25.18	23.58	0.228	30.00	-6.42
		1702.5	-1.60	1 / 25	25.01	23.41	0.219	30.00	-6.59
		1705.0	-1.60	1 / 0	24.83	23.23	0.210	30.00	-6.77
	16-QAM	1700.0	-1.60	1 / 49	24.12	22.52	0.179	30.00	-7.48
	64-QAM	1705.0	-1.60	1 / 25	22.74	21.14	0.130	30.00	-8.86
15 MHz	256-QAM	1702.5	-1.60	1 / 49	20.56	18.96	0.079	30.00	-11.04
	$\pi/2$ BPSK	1702.5	-1.60	1 / 37	25.29	23.69	0.234	30.00	-6.31
	QPSK	1702.5	-1.60	1 / 0	25.25	23.65	0.232	30.00	-6.35
	16-QAM	1702.5	-1.60	1 / 0	24.16	22.56	0.180	30.00	-7.44
	64-QAM	1702.5	-1.60	1 / 0	22.94	21.34	0.136	30.00	-8.66
	256-QAM	1702.5	-1.60	1 / 0	20.28	18.68	0.074	30.00	-11.32

Table 7-14. Antenna 1 EIRP Data (NR Band n70)


FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090025-03.BCG	Test Dates: 05/30/2022 - 08/29/2022	EUT Type: Tablet Device	Page 266 of 338

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NR Band n71

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	$\pi/2$ BPSK	665.5	-1.90	1 / 12	23.46	19.41	0.087	34.77	-15.36	21.56	0.143	36.99	-15.43
		680.5	-1.90	1 / 0	23.55	19.50	0.089	34.77	-15.27	21.65	0.146	36.99	-15.34
		695.5	-1.90	1 / 24	23.43	19.38	0.087	34.77	-15.40	21.53	0.142	36.99	-15.46
	QPSK	665.5	-1.90	1 / 0	23.42	19.37	0.086	34.77	-15.40	21.52	0.142	36.99	-15.47
		680.5	-1.90	1 / 24	23.37	19.32	0.085	34.77	-15.45	21.47	0.140	36.99	-15.52
		695.5	-1.90	1 / 12	23.33	19.28	0.085	34.77	-15.49	21.43	0.139	36.99	-15.56
	16-QAM	680.5	-1.90	1 / 24	22.80	18.75	0.075	34.77	-16.02	20.90	0.123	36.99	-16.09
10 MHz	$\pi/2$ BPSK	665.5	-1.90	1 / 12	21.59	17.54	0.057	34.77	-17.23	19.69	0.093	36.99	-17.30
		680.5	-1.90	1 / 0	19.55	15.50	0.035	34.77	-19.27	17.65	0.058	36.99	-19.34
		668.0	-1.90	1 / 25	23.73	19.68	0.093	34.77	-15.09	21.83	0.152	36.99	-15.16
	QPSK	680.5	-1.90	1 / 0	23.36	19.31	0.085	34.77	-15.46	21.46	0.140	36.99	-15.53
		693.0	-1.90	1 / 25	23.52	19.47	0.088	34.77	-15.30	21.62	0.145	36.99	-15.37
		668.0	-1.90	1 / 0	23.45	19.40	0.087	34.77	-15.37	21.55	0.143	36.99	-15.44
	16-QAM	680.5	-1.90	1 / 25	23.37	19.32	0.086	34.77	-15.45	21.47	0.140	36.99	-15.52
15 MHz	$\pi/2$ BPSK	693.0	-1.90	1 / 0	23.58	19.53	0.090	34.77	-15.24	21.68	0.147	36.99	-15.31
		680.5	-1.90	1 / 25	22.84	18.79	0.076	34.77	-15.98	20.94	0.124	36.99	-16.05
		693.0	-1.90	1 / 25	21.25	17.20	0.053	34.77	-17.57	19.35	0.086	36.99	-17.64
	QPSK	668.0	-1.90	1 / 0	19.23	15.18	0.033	34.77	-19.59	17.33	0.054	36.99	-19.66
		670.5	-1.90	1 / 0	23.90	19.85	0.097	34.77	-14.92	22.00	0.158	36.99	-14.99
		680.5	-1.90	1 / 74	23.53	19.48	0.089	34.77	-15.29	21.63	0.145	36.99	-15.36
	16-QAM	690.5	-1.90	1 / 0	23.72	19.67	0.093	34.77	-15.10	21.82	0.152	36.99	-15.16
20 MHz	$\pi/2$ BPSK	670.5	-1.90	1 / 37	23.76	19.71	0.094	34.77	-15.06	21.86	0.154	36.99	-15.13
		680.5	-1.90	1 / 0	23.58	19.53	0.090	34.77	-15.24	21.68	0.147	36.99	-15.31
		690.5	-1.90	1 / 0	23.75	19.70	0.093	34.77	-15.07	21.85	0.153	36.99	-15.14
	QPSK	670.5	-1.90	1 / 74	22.86	18.81	0.076	34.77	-15.96	20.96	0.125	36.99	-16.03
		680.5	-1.90	1 / 37	21.25	17.20	0.053	34.77	-17.57	19.35	0.086	36.99	-17.64
		690.5	-1.90	1 / 0	19.33	15.28	0.034	34.77	-19.49	17.43	0.055	36.99	-19.56
	16-QAM	673.0	-1.90	1 / 99	23.82	19.77	0.095	34.77	-15.00	21.92	0.156	36.99	-15.07
25 MHz	$\pi/2$ BPSK	680.5	-1.90	1 / 50	23.54	19.49	0.089	34.77	-15.28	21.64	0.146	36.99	-15.35
		688.0	-1.90	1 / 50	23.79	19.74	0.094	34.77	-15.04	21.89	0.154	36.99	-15.10
		673.0	-1.90	1 / 0	23.86	19.81	0.096	34.77	-14.96	21.96	0.157	36.99	-15.03
	QPSK	680.5	-1.90	1 / 99	23.81	19.76	0.095	34.77	-15.01	21.91	0.155	36.99	-15.08
		688.0	-1.90	1 / 0	23.67	19.62	0.092	34.77	-15.15	21.77	0.150	36.99	-15.22
		673.0	-1.90	1 / 99	23.19	19.14	0.082	34.77	-15.63	21.29	0.135	36.99	-15.70
	16-QAM	673.0	-1.90	1 / 0	21.78	17.73	0.059	34.77	-17.05	19.88	0.097	36.99	-17.11
25 MHz	256-QAM	680.5	-1.90	1 / 99	19.35	15.30	0.034	34.77	-19.47	17.45	0.056	36.99	-19.54

Table 7-15. Antenna 1 ERP/EIRP Data (NR Band n71)


FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n12

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	$\pi/2$ BPSK	701.5	-1.90	1 / 1	23.49	19.44	0.088	34.77	-15.33	21.59	0.144	36.99	-15.40
		707.5	-1.90	1 / 23	23.58	19.53	0.090	34.77	-15.24	21.68	0.147	36.99	-15.31
		713.5	-1.90	1 / 1	23.62	19.57	0.091	34.77	-15.20	21.72	0.149	36.99	-15.27
	QPSK	701.5	-1.90	1 / 23	23.40	19.35	0.086	34.77	-15.42	21.50	0.141	36.99	-15.49
		707.5	-1.90	1 / 23	23.32	19.27	0.085	34.77	-15.50	21.42	0.139	36.99	-15.57
		713.5	-1.90	1 / 1	23.47	19.42	0.088	34.77	-15.35	21.57	0.144	36.99	-15.42
	16-QAM	701.5	-1.90	1 / 1	22.63	18.58	0.072	34.77	-16.19	20.73	0.118	36.99	-16.26
	64-QAM	701.5	-1.90	1 / 1	21.28	17.23	0.053	34.77	-17.54	19.38	0.087	36.99	-17.61
	256-QAM	701.5	-1.90	1 / 1	18.93	14.88	0.031	34.77	-19.89	17.03	0.050	36.99	-19.96
10 MHz	$\pi/2$ BPSK	704.0	-1.90	1 / 1	23.15	19.10	0.081	34.77	-15.67	21.25	0.133	36.99	-15.74
		707.5	-1.90	1 / 1	23.52	19.47	0.089	34.77	-15.30	21.62	0.145	36.99	-15.37
		711.0	-1.90	1 / 50	23.40	19.35	0.086	34.77	-15.42	21.50	0.141	36.99	-15.49
	QPSK	704.0	-1.90	1 / 26	23.58	19.53	0.090	34.77	-15.25	21.68	0.147	36.99	-15.31
		707.5	-1.90	1 / 1	23.43	19.38	0.087	34.77	-15.39	21.53	0.142	36.99	-15.46
		711.0	-1.90	1 / 1	23.46	19.41	0.087	34.77	-15.36	21.56	0.143	36.99	-15.43
	16-QAM	707.5	-1.90	1 / 1	22.85	18.80	0.076	34.77	-15.97	20.95	0.124	36.99	-16.04
	64-QAM	711.0	-1.90	1 / 26	21.36	17.31	0.054	34.77	-17.46	19.46	0.088	36.99	-17.53
	256-QAM	704.0	-1.90	1 / 1	19.01	14.96	0.031	34.77	-19.81	17.11	0.051	36.99	-19.88
15 MHz	$\pi/2$ BPSK	706.5	-1.90	1 / 1	23.40	19.35	0.086	34.77	-15.42	21.50	0.141	36.99	-15.49
		707.5	-1.90	1 / 1	23.53	19.48	0.089	34.77	-15.29	21.63	0.146	36.99	-15.36
		708.5	-1.90	1 / 1	23.62	19.57	0.091	34.77	-15.20	21.72	0.149	36.99	-15.27
	QPSK	706.5	-1.90	1 / 77	23.64	19.59	0.091	34.77	-15.18	21.74	0.149	36.99	-15.25
		707.5	-1.90	1 / 1	23.44	19.39	0.087	34.77	-15.38	21.54	0.143	36.99	-15.45
		708.5	-1.90	1 / 39	23.52	19.47	0.089	34.77	-15.30	21.62	0.145	36.99	-15.37
	16-QAM	706.5	-1.90	1 / 1	22.91	18.86	0.077	34.77	-15.91	21.01	0.126	36.99	-15.97
	64-QAM	706.5	-1.90	1 / 1	21.43	17.38	0.055	34.77	-17.39	19.53	0.090	36.99	-17.46
	256-QAM	708.5	0.00	1 / 77	19.03	16.88	0.049	34.77	-17.89	19.03	0.080	36.99	-17.96

Table 7-16. Antenna 1 ERP/EIRP Data (NR Band n12)


FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090025-03.BCG	Test Dates: 05/30/2022 - 08/29/2022	EUT Type: Tablet Device	Page 268 of 338

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WCDMA AWS

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1712.40	WCDMA1700	22.69	0.40	23.09	0.204	30.00	-6.91
1732.60	WCDMA1700	22.64	0.40	23.04	0.201	30.00	-6.96
1752.60	WCDMA1700	22.66	0.40	23.06	0.202	30.00	-6.94

Table 7-17. Antenna 1 EIRP Data (WCDMA AWS)

FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090025-03.BCG	Test Dates: 05/30/2022 - 08/29/2022	EUT Type: Tablet Device	Page 269 of 338


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7.6.3 Antenna 3 – ERP/EIRP

LTE Band 71

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]	
5 MHz	QPSK	665.5	-3.10	1 / 12	25.70	20.45	0.111	34.77	-14.32	22.60	0.182	36.99	-14.39	
		680.5	-3.10	1 / 12	25.58	20.33	0.108	34.77	-14.44	22.48	0.177	36.99	-14.51	
		695.5	-3.10	1 / 0	25.37	20.12	0.103	34.77	-14.65	22.27	0.169	36.99	-14.72	
	16-QAM	665.5	-3.10	1 / 12	24.66	19.41	0.087	34.77	-15.36	21.56	0.143	36.99	-15.43	
	64-QAM	680.5	-3.10	1 / 12	23.89	18.64	0.073	34.77	-16.13	20.79	0.120	36.99	-16.20	
10 MHz	QPSK	665.5	-3.10	1 / 0	21.47	16.22	0.042	34.77	-18.55	18.37	0.069	36.99	-18.62	
		668.0	-3.10	1 / 0	25.48	20.23	0.105	34.77	-14.54	22.38	0.173	36.99	-14.61	
		680.5	-3.10	1 / 0	25.70	20.45	0.111	34.77	-14.32	22.60	0.182	36.99	-14.39	
	16-QAM	693.0	-3.10	1 / 0	25.47	20.22	0.105	34.77	-14.55	22.37	0.173	36.99	-14.62	
	64-QAM	680.5	-3.10	1 / 0	24.80	19.55	0.090	34.77	-15.22	21.70	0.148	36.99	-15.29	
15 MHz	QPSK	693.0	-3.10	1 / 25	23.82	18.57	0.072	34.77	-16.20	20.72	0.118	36.99	-16.27	
		256-QAM	680.5	-3.10	1 / 0	21.48	16.23	0.042	34.77	-18.54	18.38	0.069	36.99	-18.61
		QPSK	670.5	-3.10	1 / 0	25.64	20.39	0.109	34.77	-14.38	22.54	0.179	36.99	-14.45
	680.5		-3.10	1 / 37	25.70	20.45	0.111	34.77	-14.32	22.60	0.182	36.99	-14.39	
	690.5		-3.10	1 / 37	25.46	20.21	0.105	34.77	-14.56	22.36	0.172	36.99	-14.63	
20 MHz	QPSK	670.5	-3.10	1 / 0	24.75	19.50	0.089	34.77	-15.27	21.65	0.146	36.99	-15.34	
		64-QAM	690.5	-3.10	1 / 37	23.90	18.65	0.073	34.77	-16.12	20.80	0.120	36.99	-16.19
		256-QAM	670.5	-3.10	1 / 0	21.37	16.12	0.041	34.77	-18.65	18.27	0.067	36.99	-18.72
	QPSK	673.0	-3.10	1 / 50	25.67	20.42	0.110	34.77	-14.35	22.57	0.181	36.99	-14.42	
		680.5	-3.10	1 / 50	25.42	20.17	0.104	34.77	-14.60	22.32	0.171	36.99	-14.67	
688.0		-3.10	1 / 50	25.70	20.45	0.111	34.77	-14.32	22.60	0.182	36.99	-14.39		
16-QAM	688.0	-3.10	1 / 50	25.17	19.92	0.098	34.77	-14.85	22.07	0.161	36.99	-14.92		
64-QAM	680.5	-3.10	1 / 50	24.12	18.87	0.077	34.77	-15.90	21.02	0.126	36.99	-15.97		
256-QAM	673.0	-3.10	1 / 0	21.36	16.11	0.041	34.77	-18.66	18.26	0.067	36.99	-18.73		

Table 7-18. Antenna 3 ERP/EIRP Data (LTE Band 71)


FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 12

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	699.7	-2.30	1 / 3	25.59	21.14	0.130	34.77	-13.63	23.29	0.213	36.99	-13.70
		707.5	-2.30	1 / 3	25.66	21.21	0.132	34.77	-13.56	23.36	0.217	36.99	-13.63
		715.3	-2.30	1 / 3	25.70	21.25	0.133	34.77	-13.52	23.40	0.219	36.99	-13.59
	16-QAM	699.7	-2.30	1 / 5	25.01	20.56	0.114	34.77	-14.21	22.71	0.187	36.99	-14.28
	64-QAM	699.7	-2.30	1 / 0	23.88	19.43	0.088	34.77	-15.34	21.58	0.144	36.99	-15.41
3 MHz	QPSK	699.7	-2.30	1 / 0	21.33	16.88	0.049	34.77	-17.89	19.03	0.080	36.99	-17.96
		700.5	-2.30	1 / 7	25.69	21.24	0.133	34.77	-13.53	23.39	0.218	36.99	-13.60
		707.5	-2.30	1 / 7	25.70	21.25	0.133	34.77	-13.52	23.40	0.219	36.99	-13.59
	16-QAM	714.5	-2.30	1 / 7	25.68	21.23	0.133	34.77	-13.54	23.38	0.218	36.99	-13.61
		714.5	-2.30	1 / 7	25.30	20.85	0.122	34.77	-13.92	23.00	0.200	36.99	-13.99
5 MHz	QPSK	700.5	-2.30	1 / 0	24.09	19.64	0.092	34.77	-15.13	21.79	0.151	36.99	-15.20
		700.5	-2.30	1 / 0	21.39	16.94	0.049	34.77	-17.83	19.09	0.081	36.99	-17.90
		701.5	-2.30	1 / 12	25.70	21.25	0.133	34.77	-13.52	23.40	0.219	36.99	-13.59
	16-QAM	707.5	-2.30	1 / 12	25.62	21.17	0.131	34.77	-13.60	23.32	0.215	36.99	-13.67
		713.5	-2.30	1 / 12	25.62	21.17	0.131	34.77	-13.60	23.32	0.215	36.99	-13.67
10 MHz	QPSK	707.5	-2.30	1 / 12	25.01	20.56	0.114	34.77	-14.21	22.71	0.187	36.99	-14.28
		713.5	-2.30	1 / 12	23.84	19.39	0.087	34.77	-15.38	21.54	0.143	36.99	-15.45
		701.5	-2.30	1 / 0	21.35	16.90	0.049	34.77	-17.87	19.05	0.080	36.99	-17.94
	16-QAM	704.0	-2.30	1 / 0	25.45	21.00	0.126	34.77	-13.77	23.15	0.207	36.99	-13.84
		707.5	-2.30	1 / 0	25.70	21.25	0.133	34.77	-13.52	23.40	0.219	36.99	-13.59
10 MHz	QPSK	711.0	-2.30	1 / 0	25.69	21.24	0.133	34.77	-13.53	23.39	0.218	36.99	-13.60
		711.0	-2.30	1 / 25	25.02	20.57	0.114	34.77	-14.20	22.72	0.187	36.99	-14.27
		704.0	-2.30	1 / 0	23.93	19.48	0.089	34.77	-15.29	21.63	0.146	36.99	-15.36
	256-QAM	704.0	-2.30	1 / 0	21.38	16.93	0.049	34.77	-17.84	19.08	0.081	36.99	-17.91
		704.0	-2.30	1 / 0	21.38	16.93	0.049	34.77	-17.84	19.08	0.081	36.99	-17.91

Table 7-19. Antenna 3 ERP/EIRP Data (LTE Band 12)

FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 17

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	706.5	-2.30	1 / 0	25.69	21.24	0.133	34.77	-13.53	23.39	0.218	36.99	-13.60
		710.0	-2.30	1 / 12	25.70	21.25	0.133	34.77	-13.52	23.40	0.219	36.99	-13.59
		713.5	-2.30	1 / 12	25.61	21.16	0.131	34.77	-13.61	23.31	0.214	36.99	-13.68
	16-QAM	706.5	-2.30	1 / 0	24.93	20.48	0.112	34.77	-14.29	22.63	0.183	36.99	-14.36
	64-QAM	710.0	-2.30	1 / 12	23.91	19.46	0.088	34.77	-15.31	21.61	0.145	36.99	-15.38
	256-QAM	710.0	-2.30	1 / 12	22.93	18.48	0.070	34.77	-16.29	20.63	0.116	36.99	-16.36
10 MHz	QPSK	709.0	-2.30	1 / 0	25.42	20.97	0.125	34.77	-13.80	23.12	0.205	36.99	-13.87
		710.0	-2.30	1 / 0	25.70	21.25	0.133	34.77	-13.52	23.40	0.219	36.99	-13.59
		711.0	-2.30	1 / 0	25.51	21.06	0.128	34.77	-13.71	23.21	0.209	36.99	-13.78
	16-QAM	710.0	-2.30	1 / 0	24.72	20.27	0.106	34.77	-14.50	22.42	0.175	36.99	-14.57
	64-QAM	709.0	-2.30	1 / 0	23.69	19.24	0.084	34.77	-15.53	21.39	0.138	36.99	-15.60
	256-QAM	710.0	-2.30	1 / 0	22.79	18.34	0.068	34.77	-16.43	20.49	0.112	36.99	-16.50

Table 7-20. Antenna 3 ERP/EIRP Data (LTE Band 17)

FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 13

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	779.5	-2.70	1 / 12	25.70	20.85	0.122	34.77	-13.92	23.00	0.200	36.99	-13.99
		782.0	-2.70	1 / 0	25.62	20.77	0.119	34.77	-14.00	22.92	0.196	36.99	-14.07
		784.5	-2.70	1 / 0	25.53	20.68	0.117	34.77	-14.09	22.83	0.192	36.99	-14.16
	16-QAM	779.5	-2.70	1 / 12	24.77	19.92	0.098	34.77	-14.85	22.07	0.161	36.99	-14.92
	64-QAM	782.0	-2.70	1 / 12	24.24	19.39	0.087	34.77	-15.38	21.54	0.143	36.99	-15.45
10 MHz	256-QAM	779.5	-2.70	1 / 0	21.63	16.78	0.048	34.77	-17.99	18.93	0.078	36.99	-18.06
	QPSK	782.0	-2.70	1 / 25	25.70	20.85	0.122	34.77	-13.92	23.00	0.200	36.99	-13.99
	16-QAM	782.0	-2.70	1 / 0	24.75	19.90	0.098	34.77	-14.87	22.05	0.160	36.99	-14.94
	64-QAM	782.0	-2.70	1 / 0	24.13	19.28	0.085	34.77	-15.49	21.43	0.139	36.99	-15.56
	256-QAM	782.0	-2.70	1 / 0	21.70	16.85	0.048	34.77	-17.92	19.00	0.079	36.99	-17.99

Table 7-21. Antenna 3 ERP/EIRP Data (LTE Band 13)


FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 66

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	1710.7	2.30	1 / 0	23.95	26.25	0.422	30.00	-3.75
		1745.0	2.30	1 / 0	24.07	26.37	0.434	30.00	-3.63
		1779.3	2.30	1 / 5	24.20	26.50	0.447	30.00	-3.50
	16-QAM	1745.0	2.30	1 / 3	23.21	25.51	0.356	30.00	-4.49
	64-QAM	1710.7	2.30	1 / 3	22.25	24.55	0.285	30.00	-5.45
	256-QAM	1779.3	2.30	1 / 0	19.87	22.17	0.165	30.00	-7.83
3 MHz	QPSK	1711.5	2.30	1 / 7	24.17	26.47	0.444	30.00	-3.53
		1745.0	2.30	1 / 7	24.20	26.50	0.447	30.00	-3.50
		1778.5	2.30	1 / 7	24.20	26.50	0.447	30.00	-3.50
	16-QAM	1778.5	2.30	1 / 7	23.69	25.99	0.397	30.00	-4.01
	64-QAM	1778.5	2.30	1 / 14	22.49	24.79	0.301	30.00	-5.21
	256-QAM	1745.0	2.30	1 / 0	19.90	22.20	0.166	30.00	-7.80
5 MHz	QPSK	1712.5	2.30	1 / 12	23.92	26.22	0.419	30.00	-3.78
		1745.0	2.30	1 / 12	24.10	26.40	0.437	30.00	-3.60
		1777.5	2.30	1 / 0	24.20	26.50	0.447	30.00	-3.50
	16-QAM	1777.5	2.30	1 / 12	23.42	25.72	0.373	30.00	-4.28
	64-QAM	1745.0	2.30	1 / 12	22.36	24.66	0.292	30.00	-5.34
	256-QAM	1745.0	2.30	1 / 0	19.90	22.20	0.166	30.00	-7.80
10 MHz	QPSK	1715.0	2.30	1 / 25	24.11	26.41	0.438	30.00	-3.59
		1745.0	2.30	1 / 25	24.20	26.50	0.447	30.00	-3.50
		1775.0	2.30	1 / 25	24.07	26.37	0.434	30.00	-3.63
	16-QAM	1775.0	2.30	1 / 25	23.62	25.92	0.391	30.00	-4.08
	64-QAM	1775.0	2.30	1 / 0	22.64	24.94	0.312	30.00	-5.06
	256-QAM	1745.0	2.30	1 / 0	19.90	22.20	0.166	30.00	-7.80
15 MHz	QPSK	1717.5	2.30	1 / 37	24.10	26.40	0.437	30.00	-3.60
		1745.0	2.30	1 / 37	24.20	26.50	0.447	30.00	-3.50
		1772.5	2.30	1 / 37	23.97	26.27	0.424	30.00	-3.73
	16-QAM	1772.5	2.30	1 / 74	23.56	25.86	0.385	30.00	-4.14
	64-QAM	1717.5	2.30	1 / 37	22.62	24.92	0.310	30.00	-5.08
	256-QAM	1745.0	2.30	1 / 0	19.84	22.14	0.164	30.00	-7.86
	QPSK	1720.0	2.30	1 / 50	24.03	26.33	0.430	30.00	-3.67
		1745.0	2.30	1 / 50	24.09	26.39	0.436	30.00	-3.61
		1770.0	2.30	1 / 50	24.20	26.50	0.447	30.00	-3.50
	16-QAM	1745.0	2.30	1 / 50	23.75	26.05	0.403	30.00	-3.95
20 MHz	64-QAM	1745.0	2.30	1 / 50	22.45	24.75	0.299	30.00	-5.25
	256-QAM	1745.0	2.30	1 / 0	19.72	22.02	0.159	30.00	-7.98

Table 7-22. Antenna 3 EIRP Data (LTE Band 66)

FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 4

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	1710.7	2.30	1 / 0	25.10	27.40	0.550	30.00	-2.60
		1732.5	2.30	1 / 5	25.12	27.42	0.552	30.00	-2.58
		1754.3	2.30	1 / 0	25.20	27.50	0.562	30.00	-2.50
	16-QAM	1732.5	2.30	1 / 3	24.36	26.66	0.463	30.00	-3.34
	64-QAM	1754.3	2.30	1 / 0	23.43	25.73	0.374	30.00	-4.27
	256-QAM	1754.3	2.30	1 / 0	20.84	23.14	0.206	30.00	-6.86
3 MHz	QPSK	1711.5	2.30	1 / 7	25.20	27.50	0.562	30.00	-2.50
		1732.5	2.30	1 / 7	25.16	27.46	0.557	30.00	-2.54
		1753.5	2.30	1 / 7	25.09	27.39	0.548	30.00	-2.61
	16-QAM	1753.5	2.30	1 / 7	24.58	26.88	0.488	30.00	-3.12
	64-QAM	1753.5	2.30	1 / 7	23.57	25.87	0.386	30.00	-4.13
	256-QAM	1753.5	2.30	1 / 0	20.86	23.16	0.207	30.00	-6.84
5 MHz	QPSK	1712.5	2.30	1 / 12	24.94	27.24	0.530	30.00	-2.76
		1732.5	2.30	1 / 24	24.99	27.29	0.536	30.00	-2.71
		1752.5	2.30	1 / 12	25.20	27.50	0.562	30.00	-2.50
	16-QAM	1752.5	2.30	1 / 12	24.41	26.71	0.469	30.00	-3.29
	64-QAM	1732.5	2.30	1 / 24	23.46	25.76	0.377	30.00	-4.24
	256-QAM	1752.5	2.30	1 / 0	20.86	23.16	0.207	30.00	-6.84
10 MHz	QPSK	1715.0	2.30	1 / 25	25.09	27.39	0.548	30.00	-2.61
		1732.5	2.30	1 / 25	25.20	27.50	0.562	30.00	-2.50
		1750.0	2.30	1 / 0	25.19	27.49	0.561	30.00	-2.51
	16-QAM	1750.0	2.30	1 / 0	24.54	26.84	0.483	30.00	-3.16
	64-QAM	1750.0	2.30	1 / 25	23.82	26.12	0.409	30.00	-3.88
	256-QAM	1732.5	2.30	1 / 0	20.85	23.15	0.207	30.00	-6.85
15 MHz	QPSK	1717.5	2.30	1 / 37	25.19	27.49	0.561	30.00	-2.51
		1732.5	2.30	1 / 0	25.20	27.50	0.562	30.00	-2.50
		1747.5	2.30	1 / 37	25.16	27.46	0.557	30.00	-2.54
	16-QAM	1747.5	2.30	1 / 37	24.49	26.79	0.478	30.00	-3.21
	64-QAM	1732.5	2.30	1 / 37	23.66	25.96	0.394	30.00	-4.04
	256-QAM	1732.5	2.30	1 / 0	20.73	23.03	0.201	30.00	-6.97
20 MHz	QPSK	1720.0	2.30	1 / 50	24.96	27.26	0.532	30.00	-2.74
		1732.5	2.30	1 / 50	25.11	27.41	0.551	30.00	-2.59
		1745.0	2.30	1 / 50	25.20	27.50	0.562	30.00	-2.50
	16-QAM	1732.5	2.30	1 / 50	24.55	26.85	0.484	30.00	-3.15
	64-QAM	1732.5	2.30	1 / 50	23.78	26.08	0.406	30.00	-3.92
	256-QAM	1745.0	2.30	1 / 0	20.75	23.05	0.202	30.00	-6.95

Table 7-23. Antenna 3 EIRP Data (LTE Band 4)

FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n71

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	$\pi/2$ BPSK	665.5	-3.10	1 / 0	25.21	19.96	0.099	34.77	-14.81	22.11	0.163	36.99	-14.88
		680.5	-3.10	1 / 12	25.32	20.07	0.102	34.77	-14.70	22.22	0.167	36.99	-14.77
		695.5	-3.10	1 / 0	25.13	19.88	0.097	34.77	-14.89	22.03	0.160	36.99	-14.96
	QPSK	665.5	-3.10	1 / 0	25.36	20.11	0.103	34.77	-14.66	22.26	0.168	36.99	-14.73
		680.5	-3.10	1 / 0	25.09	19.84	0.096	34.77	-14.93	21.99	0.158	36.99	-15.00
		695.5	-3.10	1 / 0	25.22	19.97	0.099	34.77	-14.80	22.12	0.163	36.99	-14.87
	16-QAM	665.5	-3.10	1 / 12	24.18	18.93	0.078	34.77	-15.84	21.08	0.128	36.99	-15.91
		695.5	-3.10	1 / 0	22.72	17.47	0.056	34.77	-17.30	19.62	0.092	36.99	-17.37
	256-QAM	665.5	-3.10	1 / 12	20.58	15.33	0.034	34.77	-19.44	17.48	0.056	36.99	-19.51
10 MHz	$\pi/2$ BPSK	668.0	-3.10	1 / 0	25.42	20.17	0.104	34.77	-14.60	22.32	0.171	36.99	-14.67
		680.5	-3.10	1 / 0	25.26	20.01	0.100	34.77	-14.76	22.16	0.164	36.99	-14.83
		693.0	-3.10	1 / 25	25.29	20.04	0.101	34.77	-14.73	22.19	0.166	36.99	-14.80
	QPSK	668.0	-3.10	1 / 0	25.29	20.04	0.101	34.77	-14.73	22.19	0.166	36.99	-14.80
		680.5	-3.10	1 / 0	25.20	19.95	0.099	34.77	-14.82	22.10	0.162	36.99	-14.89
		693.0	-3.10	1 / 25	24.90	19.65	0.092	34.77	-15.12	21.80	0.151	36.99	-15.19
	16-QAM	680.5	-3.10	1 / 0	24.54	19.29	0.085	34.77	-15.48	21.44	0.139	36.99	-15.55
	64-QAM	668.0	-3.10	1 / 25	22.83	17.58	0.057	34.77	-17.19	19.73	0.094	36.99	-17.26
	256-QAM	693.0	-3.10	1 / 49	20.48	15.23	0.033	34.77	-19.55	17.38	0.055	36.99	-19.61
15 MHz	$\pi/2$ BPSK	670.5	-3.10	1 / 0	25.37	20.12	0.103	34.77	-14.65	22.27	0.169	36.99	-14.72
		680.5	-3.10	1 / 0	25.05	19.80	0.095	34.77	-14.98	21.95	0.157	36.99	-15.04
		690.5	-3.10	1 / 0	24.76	19.51	0.089	34.77	-15.26	21.66	0.147	36.99	-15.33
	QPSK	670.5	-3.10	1 / 0	25.32	20.07	0.102	34.77	-14.70	22.22	0.167	36.99	-14.77
		680.5	-3.10	1 / 0	25.23	19.98	0.100	34.77	-14.79	22.13	0.163	36.99	-14.86
		690.5	-3.10	1 / 0	25.19	19.94	0.099	34.77	-14.83	22.09	0.162	36.99	-14.90
	16-QAM	680.5	-3.10	1 / 0	24.57	19.32	0.086	34.77	-15.45	21.47	0.140	36.99	-15.52
	64-QAM	680.5	-3.10	1 / 74	22.96	17.71	0.059	34.77	-17.06	19.86	0.097	36.99	-17.13
	256-QAM	670.5	-3.10	1 / 37	20.93	15.68	0.037	34.77	-19.09	17.83	0.061	36.99	-19.16
20 MHz	$\pi/2$ BPSK	673.0	-3.10	1 / 0	25.42	20.17	0.104	34.77	-14.60	22.32	0.171	36.99	-14.67
		680.5	-3.10	1 / 0	25.25	20.00	0.100	34.77	-14.77	22.15	0.164	36.99	-14.84
		688.0	-3.10	1 / 0	25.17	19.92	0.098	34.77	-14.85	22.07	0.161	36.99	-14.92
	QPSK	673.0	-3.10	1 / 0	25.19	19.94	0.099	34.77	-14.83	22.09	0.162	36.99	-14.90
		680.5	-3.10	1 / 0	25.50	20.25	0.106	34.77	-14.52	22.40	0.174	36.99	-14.59
		688.0	-3.10	1 / 0	25.19	19.94	0.099	34.77	-14.83	22.09	0.162	36.99	-14.90
	16-QAM	673.0	-3.10	1 / 0	24.41	19.16	0.082	34.77	-15.61	21.31	0.135	36.99	-15.68
	64-QAM	673.0	-3.10	1 / 99	23.05	17.80	0.060	34.77	-16.97	19.95	0.099	36.99	-17.04
	256-QAM	688.0	-3.10	1 / 99	20.90	15.65	0.037	34.77	-19.12	17.80	0.060	36.99	-19.19

Table 7-24. Antenna 3 ERP/EIRP Data (NR Band n71)


FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n12

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	$\pi/2$ BPSK	701.5	-2.30	1 / 1	25.01	20.56	0.114	34.77	-14.21	22.71	0.187	36.99	-14.28
		707.5	-2.30	1 / 12	25.31	20.86	0.122	34.77	-13.91	23.01	0.200	36.99	-13.98
		713.5	-2.30	1 / 1	24.78	20.33	0.108	34.77	-14.44	22.48	0.177	36.99	-14.51
	QPSK	701.5	-2.30	1 / 1	25.39	20.94	0.124	34.77	-13.83	23.09	0.204	36.99	-13.90
		707.5	-2.30	1 / 12	24.77	20.32	0.108	34.77	-14.45	22.47	0.176	36.99	-14.52
		713.5	-2.30	1 / 23	24.65	20.20	0.105	34.77	-14.58	22.35	0.172	36.99	-14.64
	16-QAM	701.5	-2.30	1 / 12	24.30	19.85	0.097	34.77	-14.92	22.00	0.159	36.99	-14.99
	64-QAM	707.5	-2.30	1 / 1	22.73	18.28	0.067	34.77	-16.49	20.43	0.110	36.99	-16.56
10 MHz	$\pi/2$ BPSK	701.5	-2.30	1 / 12	20.49	16.04	0.040	34.77	-18.73	18.19	0.066	36.99	-18.80
		704.0	-2.30	1 / 1	25.39	20.94	0.124	34.77	-13.83	23.09	0.204	36.99	-13.90
		707.5	-2.30	1 / 1	25.13	20.68	0.117	34.77	-14.09	22.83	0.192	36.99	-14.16
	QPSK	711.0	-2.30	1 / 1	24.97	20.52	0.113	34.77	-14.26	22.67	0.185	36.99	-14.32
		704.0	-2.30	1 / 1	25.29	20.84	0.121	34.77	-13.93	22.99	0.199	36.99	-14.00
		707.5	-2.30	1 / 1	24.98	20.53	0.113	34.77	-14.24	22.68	0.185	36.99	-14.31
	16-QAM	711.0	-2.30	1 / 1	24.88	20.43	0.110	34.77	-14.34	22.58	0.181	36.99	-14.41
		704.0	-2.30	1 / 1	24.06	19.61	0.091	34.77	-15.16	21.76	0.150	36.99	-15.23
15 MHz	$\pi/2$ BPSK	704.0	-2.30	1 / 1	22.54	18.09	0.064	34.77	-16.68	20.24	0.106	36.99	-16.75
		707.5	-2.30	1 / 26	20.49	16.04	0.040	34.77	-18.73	18.19	0.066	36.99	-18.80
		706.5	-2.30	1 / 1	25.40	20.95	0.124	34.77	-13.82	23.10	0.204	36.99	-13.89
	QPSK	707.5	-2.30	1 / 39	25.10	20.65	0.116	34.77	-14.12	22.80	0.191	36.99	-14.19
		708.5	-2.30	1 / 77	25.27	20.82	0.121	34.77	-13.95	22.97	0.198	36.99	-14.02
		706.5	-2.30	1 / 1	25.29	20.84	0.121	34.77	-13.93	22.99	0.199	36.99	-14.00
	16-QAM	707.5	-2.30	1 / 39	24.97	20.52	0.113	34.77	-14.25	22.67	0.185	36.99	-14.32
		708.5	-2.30	1 / 39	25.06	20.61	0.115	34.77	-14.16	22.76	0.189	36.99	-14.23
15 MHz	64-QAM	708.5	-2.30	1 / 39	24.37	19.92	0.098	34.77	-14.85	22.07	0.161	36.99	-14.92
	256-QAM	708.5	-2.30	1 / 1	22.87	18.42	0.070	34.77	-16.35	20.57	0.114	36.99	-16.42
		706.5	-2.30	1 / 1	20.62	16.17	0.041	34.77	-18.60	18.32	0.068	36.99	-18.67

Table 7-25. Antenna 3 ERP/EIRP Data (NR Band n12)


FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n66

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	$\pi/2$ BPSK	1712.5	2.30	1 / 1	23.90	26.20	0.416	30.00	-3.80
		1745.0	2.30	1 / 12	24.12	26.42	0.438	30.00	-3.58
		1777.5	2.30	1 / 23	24.19	26.49	0.446	30.00	-3.51
	QPSK	1712.5	2.30	1 / 12	23.91	26.21	0.418	30.00	-3.79
		1745.0	2.30	1 / 12	24.01	26.31	0.428	30.00	-3.69
		1777.5	2.30	1 / 12	24.20	26.50	0.447	30.00	-3.50
	16-QAM	1712.5	2.30	1 / 1	23.29	25.59	0.362	30.00	-4.41
	64-QAM	1777.5	2.30	1 / 1	22.27	24.57	0.286	30.00	-5.43
	256-QAM	1777.5	2.30	1 / 1	19.65	21.95	0.157	30.00	-8.05
10 MHz	$\pi/2$ BPSK	1715.0	2.30	1 / 1	24.17	26.47	0.444	30.00	-3.53
		1745.0	2.30	1 / 25	24.13	26.43	0.440	30.00	-3.57
		1775.0	2.30	1 / 25	23.83	26.13	0.411	30.00	-3.87
	QPSK	1715.0	2.30	1 / 50	24.18	26.48	0.444	30.00	-3.52
		1745.0	2.30	1 / 50	24.20	26.50	0.447	30.00	-3.50
		1775.0	2.30	1 / 1	23.98	26.28	0.424	30.00	-3.72
	16-QAM	1745.0	2.30	1 / 50	23.61	25.91	0.390	30.00	-4.09
	64-QAM	1775.0	2.30	1 / 50	21.93	24.23	0.265	30.00	-5.77
	256-QAM	1775.0	2.30	1 / 50	19.75	22.05	0.160	30.00	-7.95
15 MHz	$\pi/2$ BPSK	1717.5	2.30	1 / 37	24.18	26.48	0.444	30.00	-3.52
		1745.0	2.30	1 / 77	24.17	26.47	0.443	30.00	-3.53
		1772.5	2.30	1 / 1	24.20	26.50	0.447	30.00	-3.50
	QPSK	1717.5	2.30	1 / 1	24.19	26.49	0.446	30.00	-3.51
		1745.0	2.30	1 / 37	24.06	26.36	0.433	30.00	-3.64
		1772.5	2.30	1 / 77	24.12	26.42	0.438	30.00	-3.58
	16-QAM	1717.5	2.30	1 / 77	23.56	25.86	0.385	30.00	-4.14
	64-QAM	1745.0	2.30	1 / 1	21.86	24.16	0.260	30.00	-5.84
	256-QAM	1745.0	2.30	1 / 1	19.89	22.19	0.166	30.00	-7.81
20 MHz	$\pi/2$ BPSK	1720.0	2.30	1 / 104	24.20	26.50	0.447	30.00	-3.50
		1745.0	2.30	1 / 104	24.05	26.35	0.432	30.00	-3.65
		1770.0	2.30	1 / 1	24.19	26.49	0.446	30.00	-3.51
	QPSK	1720.0	2.30	1 / 104	24.08	26.38	0.434	30.00	-3.62
		1745.0	2.30	1 / 50	24.11	26.41	0.438	30.00	-3.59
		1770.0	2.30	1 / 104	24.03	26.33	0.430	30.00	-3.67
	16-QAM	1745.0	2.30	1 / 104	23.69	25.99	0.397	30.00	-4.01
	64-QAM	1770.0	2.30	1 / 104	21.85	24.15	0.260	30.00	-5.85
	256-QAM	1770.0	2.30	1 / 0	19.73	22.03	0.160	30.00	-7.97
30 MHz	$\pi/2$ BPSK	1725.0	2.30	1 / 1	24.06	26.36	0.432	30.00	-3.64
		1745.0	2.30	1 / 158	24.20	26.50	0.447	30.00	-3.50
		1765.0	2.30	1 / 158	24.19	26.49	0.446	30.00	-3.51
	QPSK	1725.0	2.30	1 / 1	23.90	26.20	0.417	30.00	-3.80
		1745.0	2.30	1 / 158	24.06	26.36	0.432	30.00	-3.64
		1765.0	2.30	1 / 158	24.08	26.38	0.435	30.00	-3.62
	16-QAM	1765.0	2.30	1 / 80	23.62	25.92	0.391	30.00	-4.08
	64-QAM	1725.0	2.30	1 / 80	22.07	24.37	0.274	30.00	-5.63
	256-QAM	1765.0	2.30	1 / 1	19.87	22.17	0.165	30.00	-7.83
40 MHz	$\pi/2$ BPSK	1730.0	2.30	1 / 214	24.20	26.50	0.447	30.00	-3.50
		1745.0	2.30	1 / 1	24.19	26.49	0.446	30.00	-3.51
		1760.0	2.30	1 / 1	24.03	26.33	0.429	30.00	-3.67
	QPSK	1730.0	2.30	1 / 214	24.17	26.47	0.443	30.00	-3.53
		1745.0	2.30	1 / 1	24.15	26.45	0.441	30.00	-3.55
		1760.0	2.30	1 / 108	24.19	26.49	0.446	30.00	-3.51
	16-QAM	1745.0	2.30	1 / 214	23.77	26.07	0.404	30.00	-3.93
	64-QAM	1760.0	2.30	1 / 108	22.20	24.50	0.282	30.00	-5.50
	256-QAM	1730.0	2.30	1 / 214	19.96	22.26	0.168	30.00	-7.74

Table 7-26. Antenna 3 EIRP Data (NR Band n66)


FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n70

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	$\pi/2$ BPSK	1697.5	2.00	1 / 12	24.34	26.34	0.430	30.00	-3.66
		1702.5	2.00	1 / 0	24.85	26.85	0.484	30.00	-3.15
		1707.5	2.00	1 / 12	24.75	26.75	0.473	30.00	-3.25
	QPSK	1697.5	2.00	1 / 12	24.21	26.21	0.418	30.00	-3.79
		1702.5	2.00	1 / 0	24.89	26.89	0.489	30.00	-3.11
		1707.5	2.00	1 / 24	24.28	26.28	0.424	30.00	-3.72
	16-QAM	1707.5	2.00	1 / 24	23.50	25.50	0.355	30.00	-4.50
	64-QAM	1697.5	2.00	1 / 24	22.07	24.07	0.255	30.00	-5.93
	256-QAM	1697.5	2.00	1 / 0	20.01	22.01	0.159	30.00	-7.99
10 MHz	$\pi/2$ BPSK	1700.0	2.00	1 / 0	24.89	26.89	0.489	30.00	-3.11
		1702.5	2.00	1 / 0	24.91	26.91	0.491	30.00	-3.09
		1705.0	2.00	1 / 0	24.35	26.35	0.431	30.00	-3.65
	QPSK	1700.0	2.00	1 / 0	24.78	26.78	0.476	30.00	-3.22
		1702.5	2.00	1 / 0	24.93	26.93	0.493	30.00	-3.07
		1705.0	2.00	1 / 0	24.85	26.85	0.484	30.00	-3.15
	16-QAM	1705.0	2.00	1 / 0	23.58	25.58	0.361	30.00	-4.42
	64-QAM	1702.5	2.00	1 / 49	22.13	24.13	0.259	30.00	-5.87
15 MHz	256-QAM	1702.5	2.00	1 / 25	19.92	21.92	0.156	30.00	-8.08
	$\pi/2$ BPSK	1702.5	2.00	1 / 74	24.97	26.97	0.497	30.00	-3.03
	QPSK	1702.5	2.00	1 / 37	24.86	26.86	0.485	30.00	-3.14
	16-QAM	1702.5	2.00	1 / 37	23.91	25.91	0.390	30.00	-4.09
	64-QAM	1702.5	2.00	1 / 0	22.47	24.47	0.280	30.00	-5.53
	256-QAM	1702.5	2.00	1 / 74	20.41	22.41	0.174	30.00	-7.59

Table 7-27. Antenna 3 EIRP Data (NR Band n70)


FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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WCDMA AWS

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1712.40	WCDMA1700	25.08	2.30	27.38	0.547	30.00	-2.62
1732.60	WCDMA1700	25.05	2.30	27.35	0.543	30.00	-2.65
1752.60	WCDMA1700	25.11	2.30	27.41	0.551	30.00	-2.59

Table 7-28. Antenna 3 EIRP Data (WCDMA AWS)

FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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7.6.4 Antenna 2b – EIRP

LTE Band 66

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	1710.7	-4.60	1 / 3	25.11	20.51	0.112	30.00	-9.49
		1745.0	-4.60	1 / 3	25.10	20.50	0.112	30.00	-9.50
		1779.3	-4.60	1 / 3	25.20	20.60	0.115	30.00	-9.40
	16-QAM	1779.3	-4.60	1 / 3	24.21	19.61	0.091	30.00	-10.39
	64-QAM	1745.0	-4.60	1 / 3	23.43	18.83	0.076	30.00	-11.17
	256-QAM	1779.3	-4.60	1 / 0	20.85	16.25	0.042	30.00	-13.75
3 MHz	QPSK	1711.5	-4.60	1 / 7	25.20	20.60	0.115	30.00	-9.40
		1745.0	-4.60	1 / 7	25.06	20.46	0.111	30.00	-9.54
		1778.5	-4.60	1 / 7	25.11	20.51	0.112	30.00	-9.49
	16-QAM	1778.5	-4.60	1 / 0	24.48	19.88	0.097	30.00	-10.12
	64-QAM	1711.5	-4.60	1 / 7	23.52	18.92	0.078	30.00	-11.08
	256-QAM	1778.5	-4.60	1 / 0	20.80	16.20	0.042	30.00	-13.80
5 MHz	QPSK	1712.5	-4.60	1 / 12	25.00	20.40	0.110	30.00	-9.60
		1745.0	-4.60	1 / 24	24.98	20.38	0.109	30.00	-9.62
		1777.5	-4.60	1 / 0	25.20	20.60	0.115	30.00	-9.40
	16-QAM	1777.5	-4.60	1 / 0	24.40	19.80	0.095	30.00	-10.20
	64-QAM	1712.5	-4.60	1 / 12	23.31	18.71	0.074	30.00	-11.29
	256-QAM	1777.5	-4.60	1 / 0	20.83	16.23	0.042	30.00	-13.77
10 MHz	QPSK	1715.0	-4.60	1 / 25	25.20	20.60	0.115	30.00	-9.40
		1745.0	-4.60	1 / 25	25.06	20.46	0.111	30.00	-9.54
		1775.0	-4.60	1 / 49	25.13	20.53	0.113	30.00	-9.47
	16-QAM	1775.0	-4.60	1 / 25	24.52	19.92	0.098	30.00	-10.08
	64-QAM	1745.0	-4.60	1 / 25	23.56	18.96	0.079	30.00	-11.04
	256-QAM	1775.0	-4.60	1 / 0	20.78	16.18	0.041	30.00	-13.82
15 MHz	QPSK	1717.5	-4.60	1 / 37	25.20	20.60	0.115	30.00	-9.40
		1745.0	-4.60	1 / 37	25.14	20.54	0.113	30.00	-9.46
		1772.5	-4.60	1 / 37	25.12	20.52	0.113	30.00	-9.48
	16-QAM	1772.5	-4.60	1 / 37	24.64	20.04	0.101	30.00	-9.96
	64-QAM	1772.5	-4.60	1 / 37	23.55	18.95	0.079	30.00	-11.05
	256-QAM	1745.0	-4.60	1 / 0	20.67	16.07	0.040	30.00	-13.93
20 MHz	QPSK	1720.0	-4.60	1 / 50	25.17	20.57	0.114	30.00	-9.43
		1745.0	-4.60	1 / 50	25.10	20.50	0.112	30.00	-9.50
		1770.0	-4.60	1 / 50	25.20	20.60	0.115	30.00	-9.40
	16-QAM	1770.0	-4.60	1 / 50	24.57	19.97	0.099	30.00	-10.03
	64-QAM	1770.0	-4.60	1 / 50	23.64	19.04	0.080	30.00	-10.96
	256-QAM	1770.0	-4.60	1 / 50	20.74	16.14	0.041	30.00	-13.86

Table 7-29. Antenna 2b EIRP Data (LTE Band 66)

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LTE Band 4

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	1710.7	-4.60	1 / 0	25.20	20.60	0.115	30.00	-9.40
		1732.5	-4.60	1 / 0	25.09	20.49	0.112	30.00	-9.51
		1754.3	-4.60	1 / 3	25.19	20.59	0.115	30.00	-9.41
	16-QAM	1732.5	-4.60	1 / 3	24.26	19.66	0.092	30.00	-10.34
	64-QAM	1754.3	-4.60	1 / 5	23.29	18.69	0.074	30.00	-11.31
	256-QAM	1754.3	-4.60	1 / 0	20.78	16.18	0.041	30.00	-13.82
3 MHz	QPSK	1711.5	-4.60	1 / 7	25.20	20.60	0.115	30.00	-9.40
		1732.5	-4.60	1 / 7	25.01	20.41	0.110	30.00	-9.59
		1753.5	-4.60	1 / 7	25.00	20.40	0.110	30.00	-9.60
	16-QAM	1753.5	-4.60	1 / 7	24.42	19.82	0.096	30.00	-10.18
	64-QAM	1753.5	-4.60	1 / 7	23.71	19.11	0.081	30.00	-10.89
	256-QAM	1732.5	-4.60	1 / 0	20.79	16.19	0.042	30.00	-13.81
5 MHz	QPSK	1712.5	-4.60	1 / 0	25.04	20.44	0.111	30.00	-9.56
		1732.5	-4.60	1 / 12	25.08	20.48	0.112	30.00	-9.52
		1752.5	-4.60	1 / 0	25.20	20.60	0.115	30.00	-9.40
	16-QAM	1752.5	-4.60	1 / 24	24.34	19.74	0.094	30.00	-10.26
	64-QAM	1752.5	-4.60	1 / 0	23.60	19.00	0.079	30.00	-11.00
	256-QAM	1752.5	-4.60	1 / 0	20.82	16.22	0.042	30.00	-13.78
10 MHz	QPSK	1715.0	-4.60	1 / 25	25.20	20.60	0.115	30.00	-9.40
		1732.5	-4.60	1 / 25	25.12	20.52	0.113	30.00	-9.48
		1750.0	-4.60	1 / 25	25.05	20.45	0.111	30.00	-9.55
	16-QAM	1750.0	-4.60	1 / 25	24.49	19.89	0.097	30.00	-10.11
	64-QAM	1732.5	-4.60	1 / 49	23.68	19.08	0.081	30.00	-10.92
		1750.0	-4.60	1 / 25	23.68	19.08	0.081	30.00	-10.92
15 MHz	QPSK	1717.5	-4.60	1 / 37	25.20	20.60	0.115	30.00	-9.40
		1732.5	-4.60	1 / 37	25.18	20.58	0.114	30.00	-9.42
		1747.5	-4.60	1 / 37	25.15	20.55	0.114	30.00	-9.45
	16-QAM	1747.5	-4.60	1 / 37	24.55	19.95	0.099	30.00	-10.05
	64-QAM	1732.5	-4.60	1 / 37	23.82	19.22	0.084	30.00	-10.78
		1747.5	-4.60	1 / 0	20.68	16.08	0.041	30.00	-13.92
20 MHz	QPSK	1720.0	-4.60	1 / 50	25.13	20.53	0.113	30.00	-9.47
		1732.5	-4.60	1 / 50	25.10	20.50	0.112	30.00	-9.50
		1745.0	-4.60	1 / 50	25.20	20.60	0.115	30.00	-9.40
	16-QAM	1732.5	-4.60	1 / 50	24.54	19.94	0.099	30.00	-10.06
	64-QAM	1745.0	-4.60	1 / 50	23.69	19.09	0.081	30.00	-10.91
	256-QAM	1732.5	-4.60	1 / 0	20.65	16.05	0.040	30.00	-13.95

Table 7-30. Antenna 2b EIRP Data (LTE Band 4)

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NR Band n66

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	$\pi/2$ BPSK	1712.5	-4.60	1 / 1	24.75	20.15	0.104	30.00	-9.85
		1745.0	-4.60	1 / 1	23.91	19.31	0.085	30.00	-10.69
		1777.5	-4.60	1 / 1	23.99	19.39	0.087	30.00	-10.61
	QPSK	1712.5	-4.60	1 / 23	24.24	19.64	0.092	30.00	-10.36
		1745.0	-4.60	1 / 1	24.05	19.45	0.088	30.00	-10.55
		1777.5	-4.60	1 / 12	24.71	20.11	0.103	30.00	-9.89
	16-QAM	1777.5	-4.60	1 / 12	23.50	18.90	0.078	30.00	-11.10
	64-QAM	1712.5	-4.60	1 / 12	22.03	17.43	0.055	30.00	-12.57
	256-QAM	1712.5	-4.60	1 / 1	19.68	15.08	0.032	30.00	-14.92
10 MHz	$\pi/2$ BPSK	1715.0	-4.60	1 / 1	24.79	20.19	0.104	30.00	-9.81
		1745.0	-4.60	1 / 50	24.17	19.57	0.091	30.00	-10.43
		1775.0	-4.60	1 / 1	24.26	19.66	0.092	30.00	-10.34
	QPSK	1715.0	-4.60	1 / 1	24.72	20.12	0.103	30.00	-9.88
		1745.0	-4.60	1 / 1	24.10	19.50	0.089	30.00	-10.50
		1775.0	-4.60	1 / 50	24.43	19.83	0.096	30.00	-10.17
	16-QAM	1715.0	-4.60	1 / 1	23.54	18.94	0.078	30.00	-11.06
	64-QAM	1715.0	-4.60	1 / 25	21.94	17.34	0.054	30.00	-12.66
	256-QAM	1745.0	-4.60	1 / 1	19.76	15.16	0.033	30.00	-14.84
15 MHz	$\pi/2$ BPSK	1717.5	-4.60	1 / 77	24.81	20.21	0.105	30.00	-9.79
		1745.0	-4.60	1 / 77	24.41	19.81	0.096	30.00	-10.19
		1772.5	-4.60	1 / 77	24.24	19.64	0.092	30.00	-10.36
	QPSK	1717.5	-4.60	1 / 1	24.43	19.83	0.096	30.00	-10.17
		1745.0	-4.60	1 / 1	24.27	19.67	0.093	30.00	-10.33
		1772.5	-4.60	1 / 1	24.83	20.23	0.105	30.00	-9.77
	16-QAM	1772.5	-4.60	1 / 37	23.62	19.02	0.080	30.00	-10.98
	64-QAM	1745.0	-4.60	1 / 1	22.14	17.54	0.057	30.00	-12.46
	256-QAM	1772.5	-4.60	1 / 77	19.97	15.37	0.034	30.00	-14.63
20 MHz	$\pi/2$ BPSK	1720.0	-4.60	1 / 1	24.46	19.86	0.097	30.00	-10.14
		1745.0	-4.60	1 / 1	24.85	20.25	0.106	30.00	-9.75
		1770.0	-4.60	1 / 50	24.50	19.90	0.098	30.00	-10.10
	QPSK	1720.0	-4.60	1 / 104	24.89	20.29	0.107	30.00	-9.71
		1745.0	-4.60	1 / 50	24.58	19.98	0.099	30.00	-10.02
		1770.0	-4.60	1 / 104	24.49	19.89	0.098	30.00	-10.11
	16-QAM	1770.0	-4.60	1 / 104	23.88	19.28	0.085	30.00	-10.72
	64-QAM	1770.0	-4.60	1 / 50	22.12	17.52	0.057	30.00	-12.48
	256-QAM	1745.0	-4.60	1 / 0	19.97	15.37	0.034	30.00	-14.63
30 MHz	$\pi/2$ BPSK	1725.0	-4.60	1 / 80	24.11	19.51	0.089	30.00	-10.49
		1745.0	-4.60	1 / 1	24.14	19.54	0.090	30.00	-10.46
		1765.0	-4.60	1 / 80	24.89	20.29	0.107	30.00	-9.71
	QPSK	1725.0	-4.60	1 / 1	24.91	20.31	0.107	30.00	-9.69
		1745.0	-4.60	1 / 80	24.28	19.68	0.093	30.00	-10.32
		1765.0	-4.60	1 / 1	24.06	19.46	0.088	30.00	-10.54
	16-QAM	1745.0	-4.60	1 / 80	23.69	19.09	0.081	30.00	-10.91
	64-QAM	1765.0	-4.60	1 / 158	22.03	17.43	0.055	30.00	-12.57
	256-QAM	1745.0	-4.60	1 / 158	19.95	15.35	0.034	30.00	-14.65
40 MHz	$\pi/2$ BPSK	1730.0	-4.60	1 / 108	24.50	19.90	0.098	30.00	-10.10
		1745.0	-4.60	1 / 1	25.08	20.48	0.112	30.00	-9.52
		1760.0	-4.60	1 / 108	24.60	20.00	0.100	30.00	-10.00
	QPSK	1730.0	-4.60	1 / 108	25.03	20.43	0.110	30.00	-9.57
		1745.0	-4.60	1 / 1	24.34	19.74	0.094	30.00	-10.26
		1760.0	-4.60	1 / 214	24.43	19.83	0.096	30.00	-10.17
	16-QAM	1730.0	-4.60	1 / 1	24.02	19.42	0.088	30.00	-10.58
	64-QAM	1745.0	-4.60	1 / 1	22.21	17.61	0.058	30.00	-12.39
	256-QAM	1745.0	-4.60	1 / 1	19.94	15.34	0.034	30.00	-14.66

Table 7-31. Antenna 2b EIRP Data (NR Band n66)

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NR Band n70

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	$\pi/2$ BPSK	1697.5	-4.90	1 / 24	24.54	19.64	0.092	30.00	-10.36
		1702.5	-4.90	1 / 12	24.40	19.50	0.089	30.00	-10.50
		1707.5	-4.90	1 / 0	24.48	19.58	0.091	30.00	-10.42
	QPSK	1697.5	-4.90	1 / 24	24.71	19.81	0.096	30.00	-10.19
		1702.5	-4.90	1 / 24	24.74	19.84	0.096	30.00	-10.16
		1707.5	-4.90	1 / 24	24.82	19.92	0.098	30.00	-10.08
	16-QAM	1707.5	-4.90	1 / 12	23.95	19.05	0.080	30.00	-10.95
	64-QAM	1707.5	-4.90	1 / 12	22.76	17.86	0.061	30.00	-12.14
	256-QAM	1702.5	-4.90	1 / 12	20.23	15.33	0.034	30.00	-14.67
10 MHz	$\pi/2$ BPSK	1700.0	-4.90	1 / 49	24.96	20.06	0.101	30.00	-9.94
		1702.5	-4.90	1 / 49	24.77	19.87	0.097	30.00	-10.13
		1705.0	-4.90	1 / 0	24.46	19.56	0.090	30.00	-10.44
	QPSK	1700.0	-4.90	1 / 49	24.66	19.76	0.095	30.00	-10.24
		1702.5	-4.90	1 / 0	24.49	19.59	0.091	30.00	-10.41
		1705.0	-4.90	1 / 0	24.50	19.60	0.091	30.00	-10.40
	16-QAM	1702.5	-4.90	1 / 0	23.87	18.97	0.079	30.00	-11.03
	64-QAM	1700.0	-4.90	1 / 49	22.45	17.55	0.057	30.00	-12.45
15 MHz	256-QAM	1702.5	-4.90	1 / 0	20.26	15.36	0.034	30.00	-14.64
	$\pi/2$ BPSK	1702.5	-4.90	1 / 37	24.80	19.90	0.098	30.00	-10.10
	QPSK	1702.5	-4.90	1 / 0	24.85	19.95	0.099	30.00	-10.05
	16-QAM	1702.5	-4.90	1 / 0	23.93	19.03	0.080	30.00	-10.97
	64-QAM	1702.5	-4.90	1 / 0	22.19	17.29	0.054	30.00	-12.71
	256-QAM	1702.5	-4.90	1 / 0	20.31	15.41	0.035	30.00	-14.59

Table 7-32. Antenna 2b EIRP Data (NR Band n70)


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WCDMA AWS

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1712.40	WCDMA1700	22.68	-4.60	18.08	0.064	30.00	-11.92
1732.60	WCDMA1700	22.64	-4.60	18.04	0.064	30.00	-11.96
1752.60	WCDMA1700	22.67	-4.60	18.07	0.064	30.00	-11.93

Table 7-33. Antenna 2b EIRP Data (WCDMA AWS)

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7.7 Radiated Spurious Emissions

\$2.1053, \$27.53(f)

Test Overview

Radiated spurious emissions measurements are performed using the field strength conversion method described in KDB 971168 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using horizontally and vertically polarized broadband hybrid antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed while the EUT is operating at maximum power and at the appropriate frequencies.


Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.8

ANSI C63.26 2015, TIA-603-E-2016 – Section 2.2.12

Test Settings

1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
2. VBW $\geq 3 \times$ RBW
3. Span = 1.5 times the OBW
4. No. of sweep points $\geq 2 \times$ span / RBW
5. Detector = RMS
6. Trace mode = Average (Max Hold for pulsed emissions)
7. The trace was allowed to stabilize

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Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

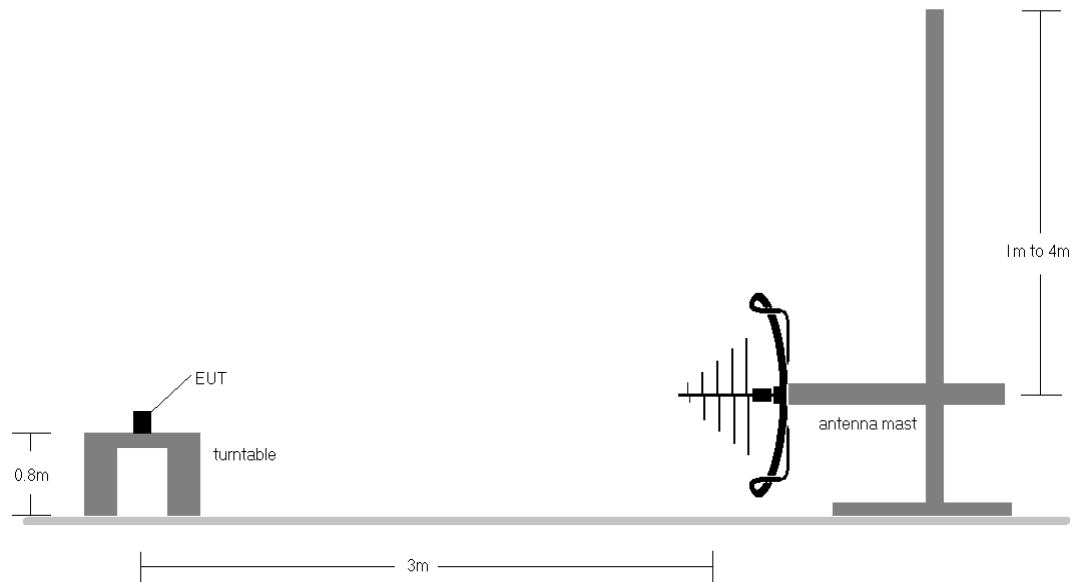


Figure 7-6. Test Instrument & Measurement Setup < 1GHz

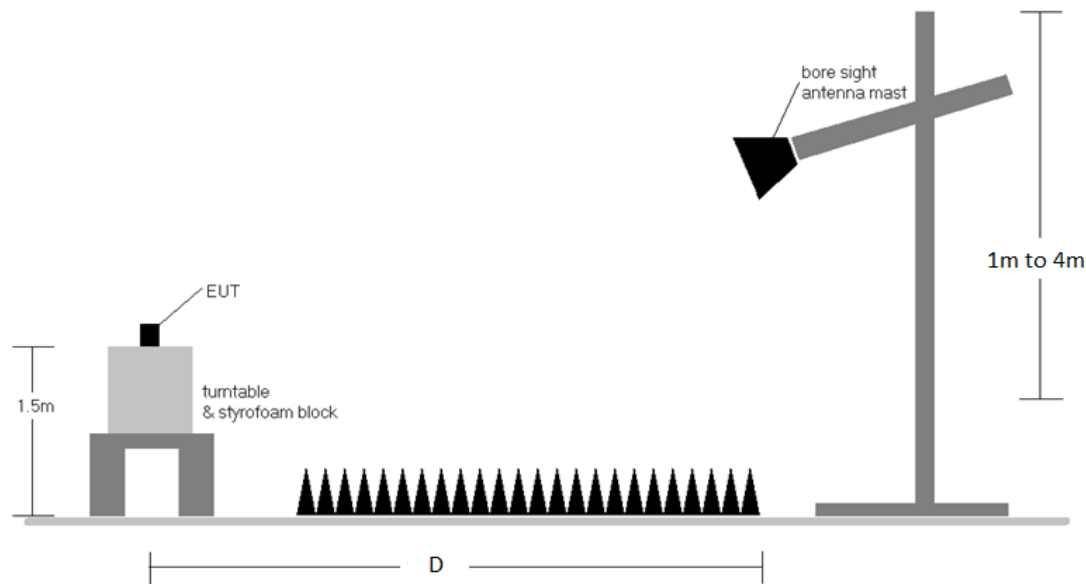




Figure 7-7. Test Instrument & Measurement Setup > 1GHz

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Test Notes

1. Field strengths are calculated using the Measurement quantity conversions in KDB 971168 Section 5.8.4.
 - a. $E(\text{dB}\mu\text{V}/\text{m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b. $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V}/\text{m}) + 20\log D - 104.8$; where D is the measurement distance in meters.
2. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
3. This unit was tested with its standard battery.
4. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case setup is reported in the tables below.
5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
6. D is the measurement test distance and emissions 1-18GHz were measured at a 3 meters test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
7. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
8. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.
9. Spurious emission in EN-DC Operating mode with Sub 6GHz NR carrier as well as an LTE carrier (anchor) has been checked and was found to not to be the worst case.

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7.7.1 Antenna 4b – Radiated Spurious Emission Measurement

LTE Band 66/4

Bandwidth (MHz):	20								
Frequency (MHz):	1720.0								
RB / Offset:	1 / 50								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3440.0	V	-	-	-79.33	4.93	32.60	-62.66	-13.00	-49.66
5160.0	V	-	-	-80.52	7.51	33.99	-61.27	-13.00	-48.27
6880.0	V	-	-	-80.70	10.24	36.54	-58.72	-13.00	-45.72


Table 7-34. Antenna 4b Radiated Spurious Data (LTE Band 66/4 – Low Channel)

Bandwidth (MHz):	20								
Frequency (MHz):	1745.0								
RB / Offset:	1 / 50								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3490.0	V	-	-	-79.13	5.40	33.27	-61.99	-13.00	-48.99
5235.0	V	-	-	-79.72	7.36	34.64	-60.61	-13.00	-47.61
6980.0	V	-	-	-80.08	9.92	36.84	-58.42	-13.00	-45.42

Table 7-35. Antenna 4b Radiated Spurious Data (LTE Band 66/4 – Mid Channel)

Bandwidth (MHz):	20								
Frequency (MHz):	1770.0								
RB / Offset:	1 / 50								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3540.0	V	-	-	-79.13	5.64	33.51	-61.75	-13.00	-48.75
5310.0	V	-	-	-79.64	7.58	34.94	-60.32	-13.00	-47.32
7080.0	V	-	-	-80.19	10.37	37.18	-58.08	-13.00	-45.08

Table 7-36. Antenna 4b Radiated Spurious Data (LTE Band 66/4 – High Channel)

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NR Band n66

Bandwidth (MHz):	40								
Frequency (MHz):	1730.0								
RB / Offset:	1 / 108								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3460.0	H	-	-	-77.68	2.27	31.59	-63.67	-13.00	-50.67
5190.0	H	-	-	-79.38	5.44	33.06	-62.20	-13.00	-49.20
6920.0	H	-	-	-80.37	8.65	35.28	-59.98	-13.00	-46.98


Table 7-37. Antenna 4b Radiated Spurious Data (NR Band n66 – Low Channel)

Bandwidth (MHz):	40								
Frequency (MHz):	1745.0								
RB / Offset:	1 / 108								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3490.0	H	-	-	-77.48	1.51	31.03	-64.22	-13.00	-51.22
5235.0	H	-	-	-79.36	4.73	32.37	-62.89	-13.00	-49.89
6980.0	H	-	-	-80.53	8.11	34.58	-60.68	-13.00	-47.68

Table 7-38. Antenna 4b Radiated Spurious Data (NR Band n66 – Mid Channel)

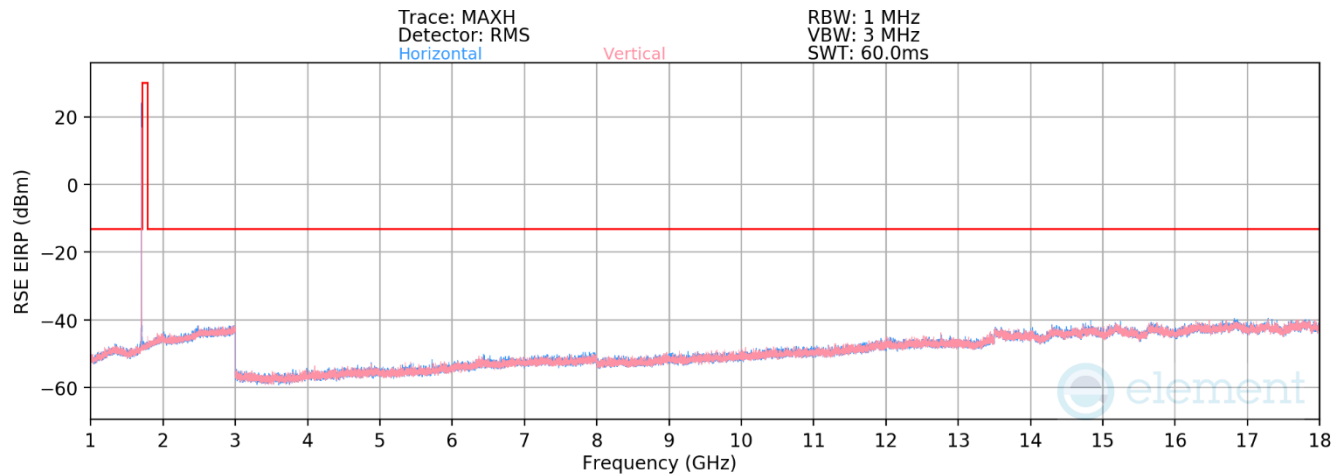
Bandwidth (MHz):	40								
Frequency (MHz):	1760.0								
RB / Offset:	1 / 108								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3520.0	H	-	-	-77.66	1.62	30.96	-64.30	-13.00	-51.30
5280.0	H	-	-	-79.37	4.95	32.58	-62.68	-13.00	-49.68
7040.0	H	-	-	-80.78	8.10	34.32	-60.94	-13.00	-47.94

Table 7-39. Antenna 4b Radiated Spurious Data (NR Band n66 – High Channel)


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NR Band n70



Plot 7-445. Antenna 4b Radiated Spurious Emission above 1GHz (NR Band n70)

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Bandwidth (MHz):	10
Frequency (MHz):	1700.0
RB / Offset:	1/25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3400.0	H	-	-	-79.43	4.93	32.50	-62.76	-13.00	-49.76
5100.0	H	-	-	-80.35	7.70	34.35	-60.90	-13.00	-47.90
6800.0	H	-	-	-80.62	10.20	36.58	-58.68	-13.00	-45.68

Table 7-40. Antenna 4b Radiated Spurious Data (NR Band n70 – Low Channel)

Bandwidth (MHz):	15
Frequency (MHz):	1702.5
RB / Offset:	1/37


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3405.0	H	-	-	-79.60	4.94	32.34	-62.92	-13.00	-49.92
5107.5	V	231	191	-78.65	7.75	36.10	-59.15	-13.00	-46.15
6810.0	H	-	-	-80.99	10.18	36.19	-59.07	-13.00	-46.07
8512.5	H	-	-	-81.67	11.33	36.66	-58.59	-13.00	-45.59
10215.0	H	-	-	-82.20	14.51	39.31	-55.95	-13.00	-42.95

Table 7-41. Antenna 4b Radiated Spurious Data (NR Band n70 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	1705.0
RB / Offset:	1/25

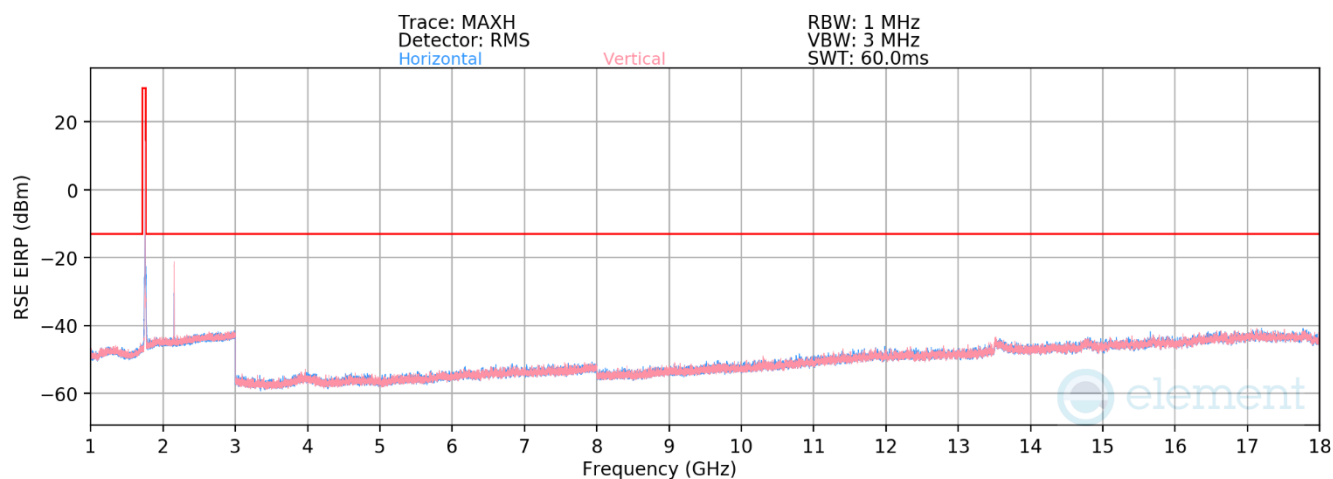
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3410.0	H	-	-	-79.46	4.94	32.48	-62.77	-13.00	-49.77
5115.0	H	-	-	-80.26	7.78	34.52	-60.73	-13.00	-47.73
6820.0	H	-	-	-81.12	10.24	36.12	-59.13	-13.00	-46.13

Table 7-42. Antenna 4b Radiated Spurious Data (NR Band n70 – Low Channel)


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WCDMA AWS



Plot 7-446. Antenna 4b Radiated Spurious Emission above 1GHz (WCDMA AWS)

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Mode:	WCDMA RMC
Channel:	1312
Frequency (MHz):	1712.4

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3424.8	H	-	-	-76.30	2.04	32.74	-62.52	-13.00	-49.52
5137.2	V	292	218	-75.46	4.60	36.14	-59.12	-13.00	-46.12
6849.6	H	-	-	-79.49	8.51	36.02	-59.23	-13.00	-46.23
8562.0	H	-	-	-81.16	9.59	35.43	-59.83	-13.00	-46.83
10274.4	H	-	-	-82.70	13.74	38.04	-57.22	-13.00	-44.22

7-43. Antenna 4b Radiated Spurious Data (WCDMA AWS – Low Channel)

Mode:	WCDMA RMC
Channel:	1413
Frequency (MHz):	1732.6


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3465.2	H	-	-	-79.56	2.37	29.81	-65.45	-13.00	-52.45
5197.8	H	-	-	-79.61	5.15	32.54	-62.72	-13.00	-49.72
6930.4	H	-	-	-80.12	8.37	35.25	-60.01	-13.00	-47.01

Table 7-44. Antenna 4b Radiated Spurious Data (WCDMA AWS – Mid Channel)

Mode:	WCDMA RMC
Channel:	1513
Frequency (MHz):	1752.6

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3505.2	H	-	-	-76.72	2.45	32.73	-62.53	-13.00	-49.53
5257.8	H	217	192	-74.98	4.82	36.84	-58.41	-13.00	-45.41
7010.4	H	-	-	-78.86	7.89	36.03	-59.23	-13.00	-46.23
8763.0	H	-	-	-81.15	10.35	36.20	-59.06	-13.00	-46.06
10515.6	H	-	-	-82.14	14.22	39.08	-56.18	-13.00	-43.18

Table 7-45. Antenna 4b Radiated Spurious Data (WCDMA AWS – High Channel)

FCC ID: BCGA2435		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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