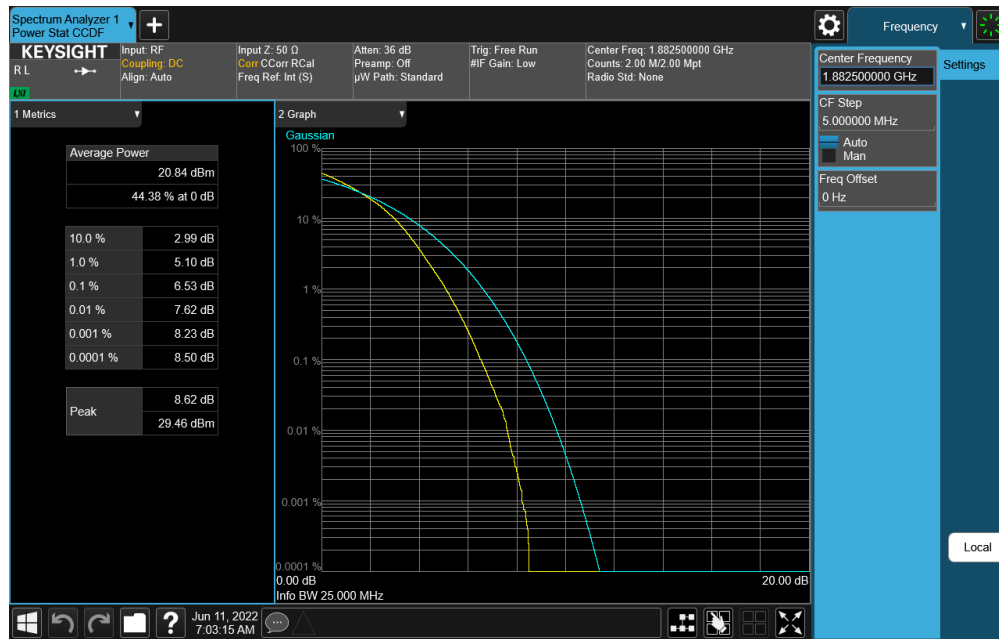
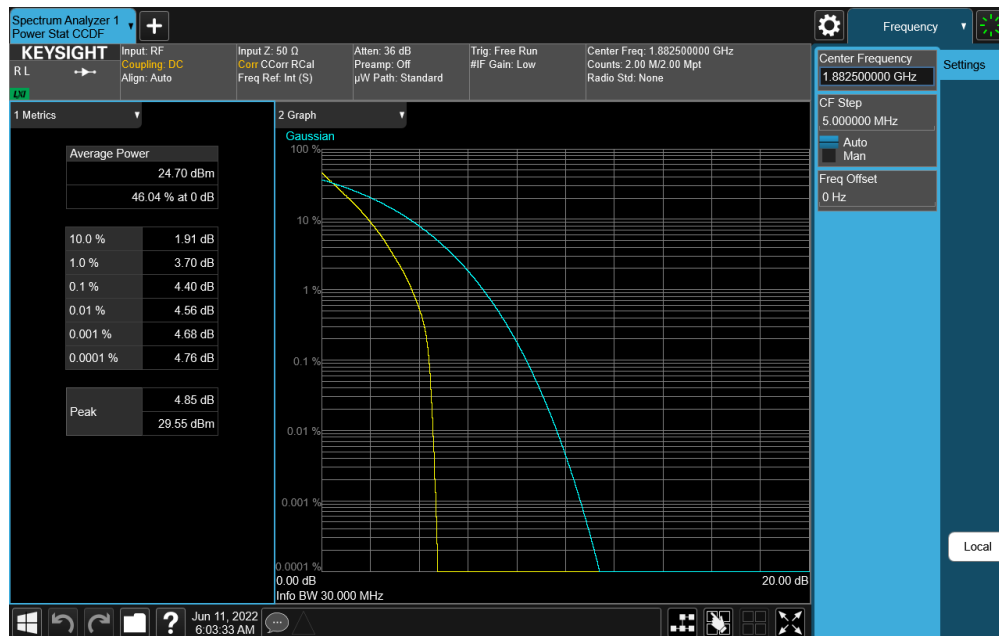




Plot 7-256. PAR Plot (NR Band n25 - 25.0MHz DFT-s-OFDM 256-QAM - Full RB)

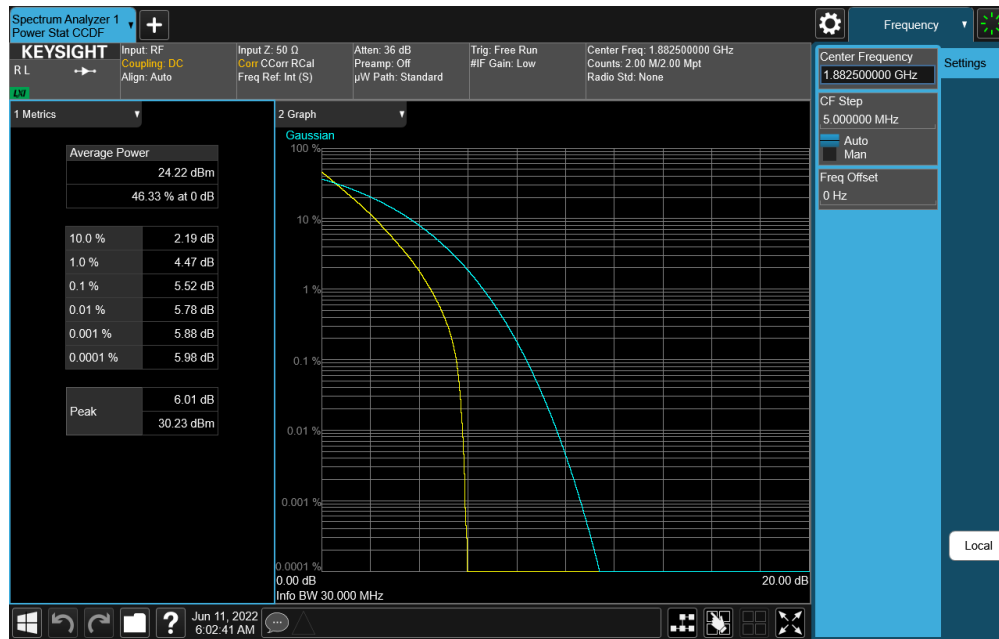


Plot 7-257. PAR Plot (NR Band n25 - 30.0MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

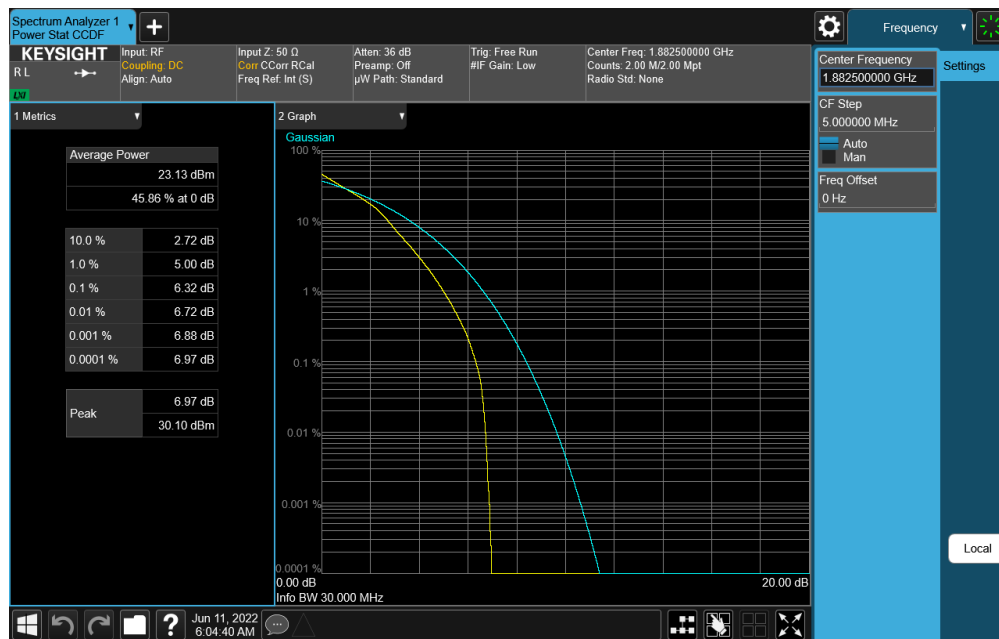
FCC ID: BCGA2435	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-258. PAR Plot (NR Band n25 - 30.0MHz DFT-s-OFDM QPSK - Full RB)

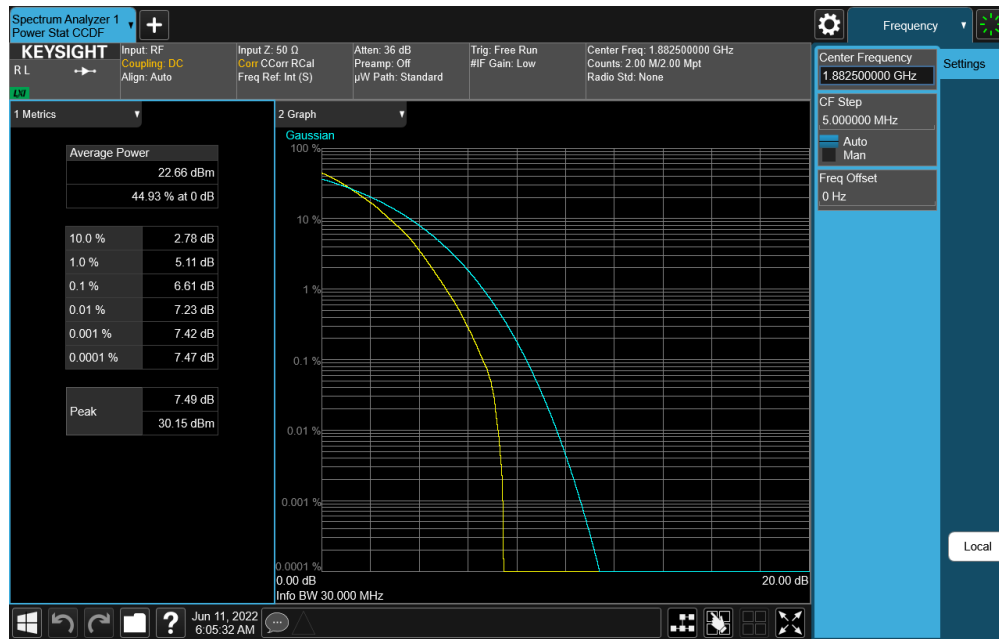


Plot 7-259. PAR Plot (NR Band n25 - 30.0MHz DFT-s-OFDM 16-QAM - Full RB)

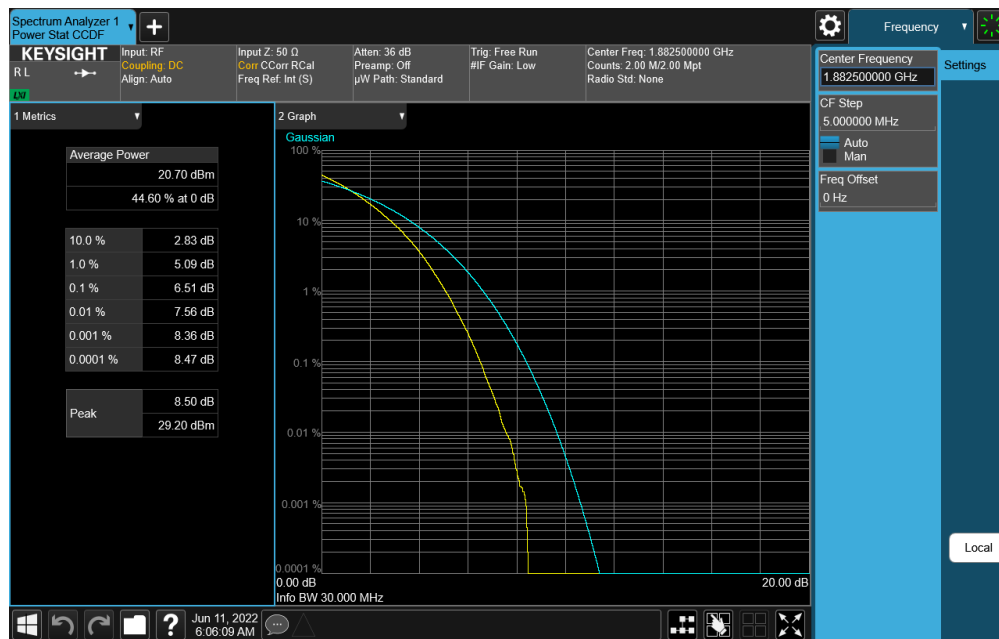
FCC ID: BCGA2435	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-260. PAR Plot (NR Band n25 - 30.0MHz DFT-s-OFDM 64-QAM - Full RB)

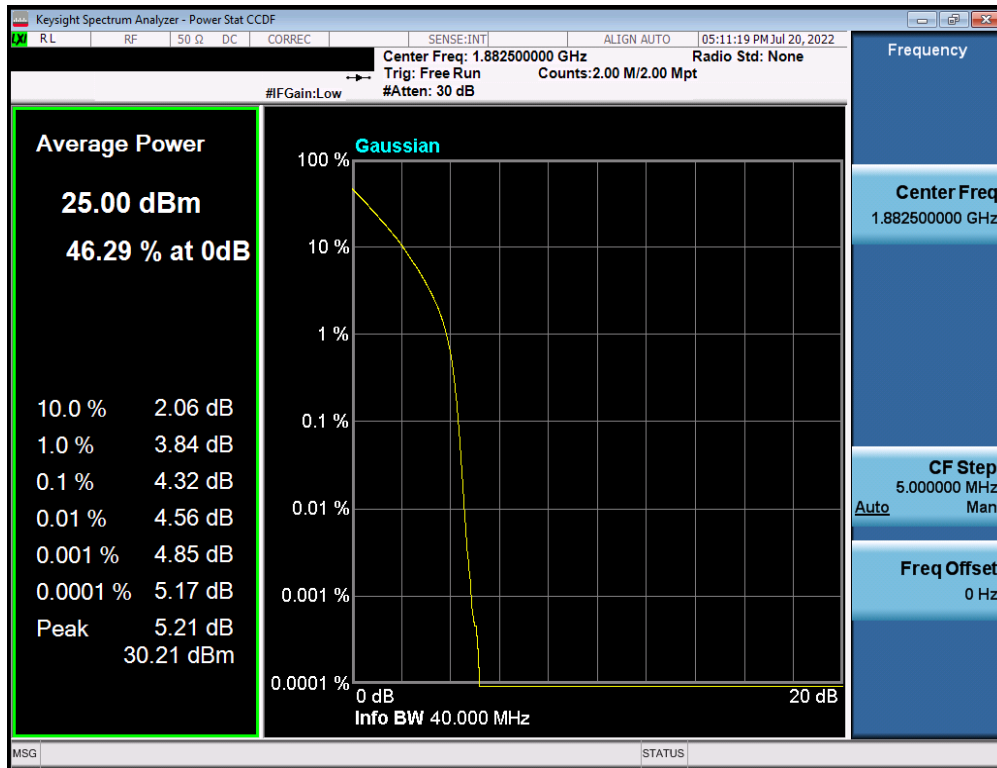


Plot 7-261. PAR Plot (NR Band n25 - 30.0MHz DFT-s-OFDM 256-QAM - Full RB)

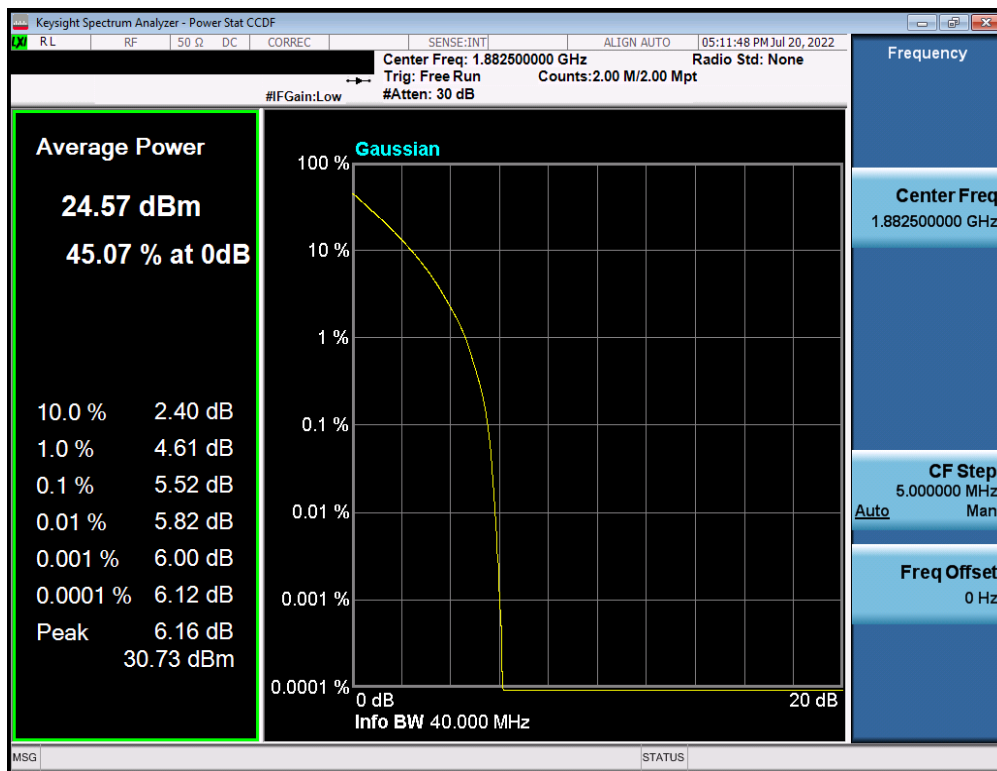
FCC ID: BCGA2435	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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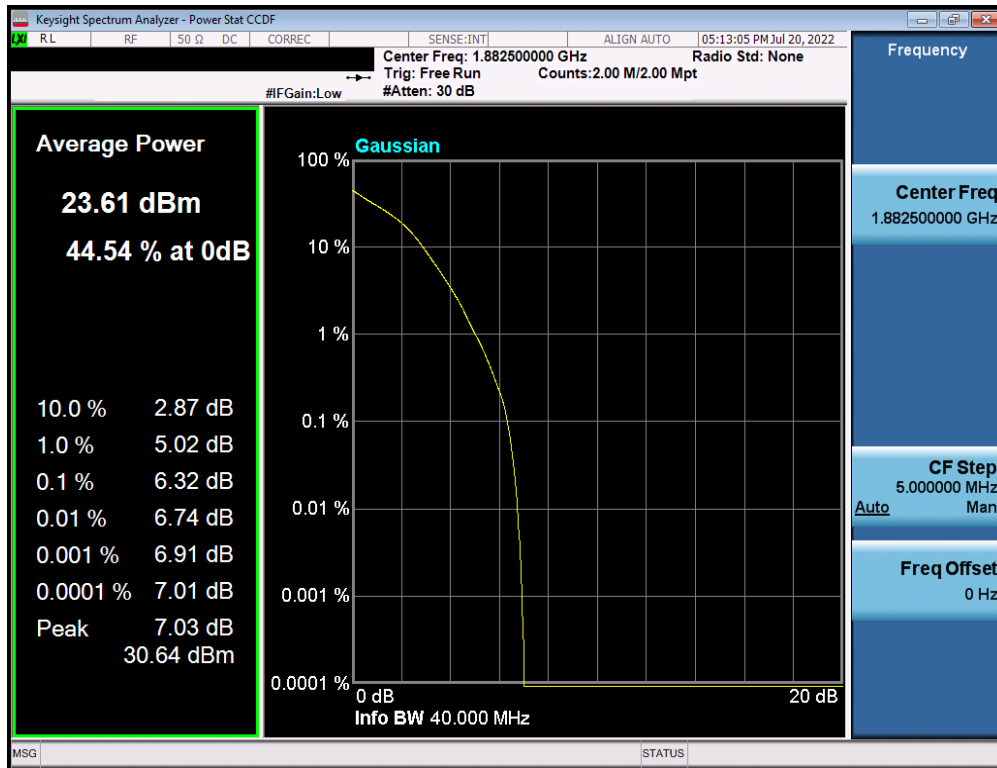
Plot 7-262. PAR Plot (NR Band n25 - 40.0MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)



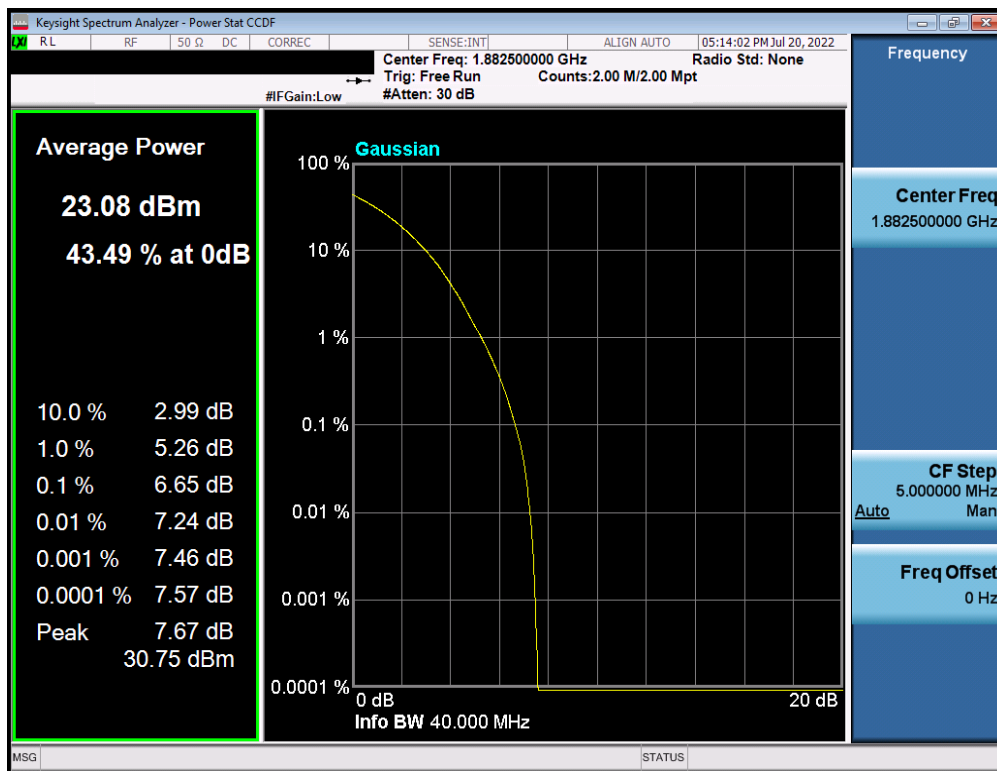
Plot 7-263. PAR Plot (NR Band n25 - 40.0MHz DFT-s-OFDM QPSK - Full RB)

FCC ID: BCGA2435	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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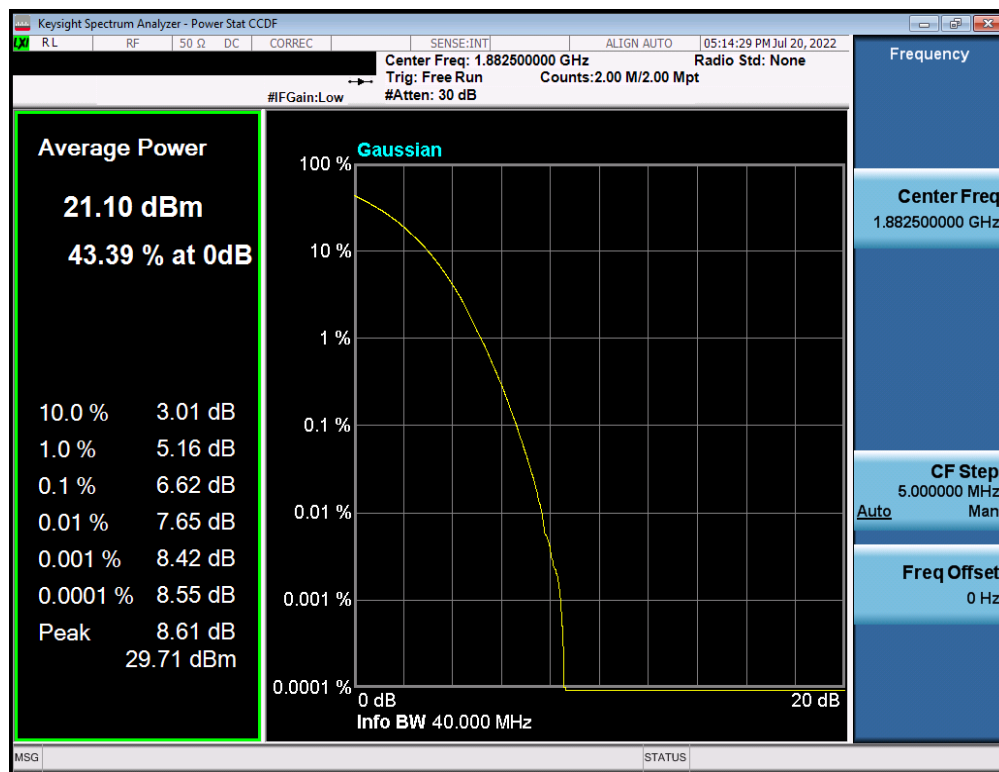
Plot 7-264. PAR Plot (NR Band n25 - 40.0MHz DFT-s-OFDM 16-QAM - Full RB)



Plot 7-265. PAR Plot (NR Band n25 - 40.0MHz DFT-s-OFDM 64-QAM - Full RB)

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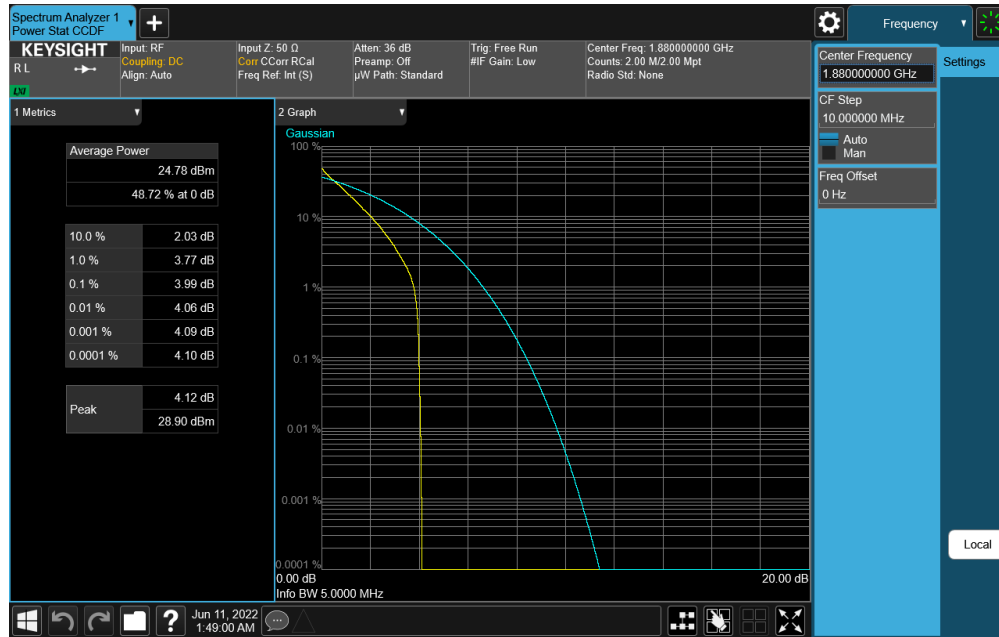


Plot 7-266. PAR Plot (NR Band n25 - 40.0MHz DFT-s-OFDM 256-QAM - Full RB)

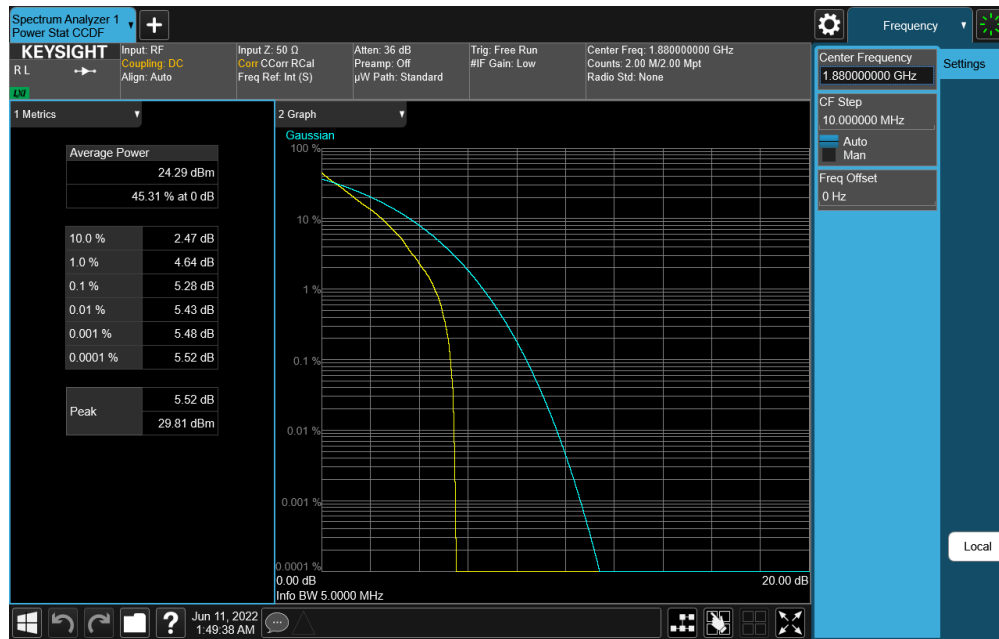
FCC ID: BCGA2435	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n2



Plot 7-267. PAR Plot (NR Band n2 - 5.0MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

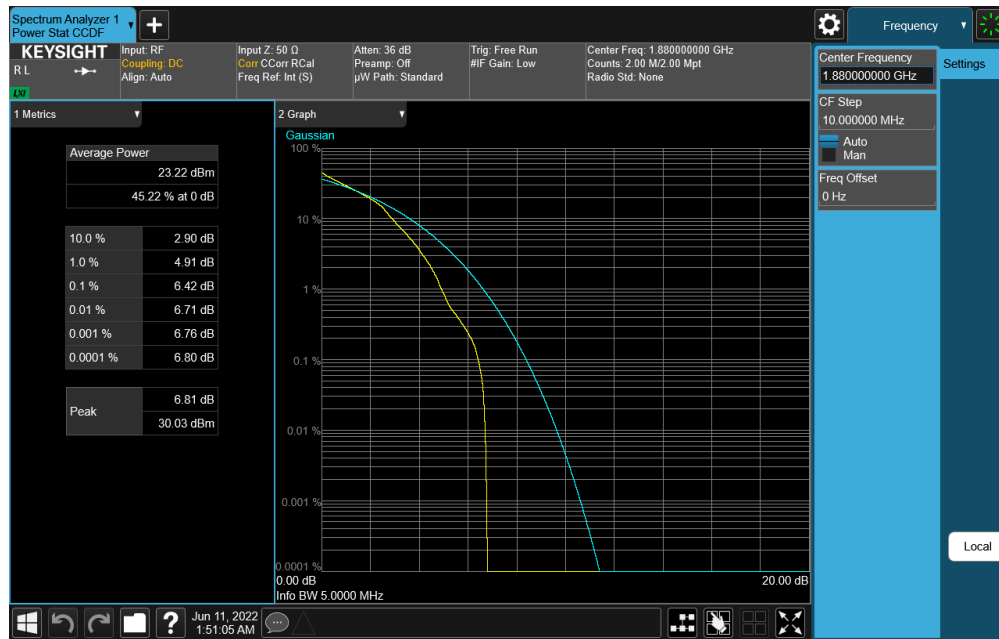


Plot 7-268. PAR Plot (NR Band n2 - 5.0MHz DFT-s-OFDM QPSK - Full RB)

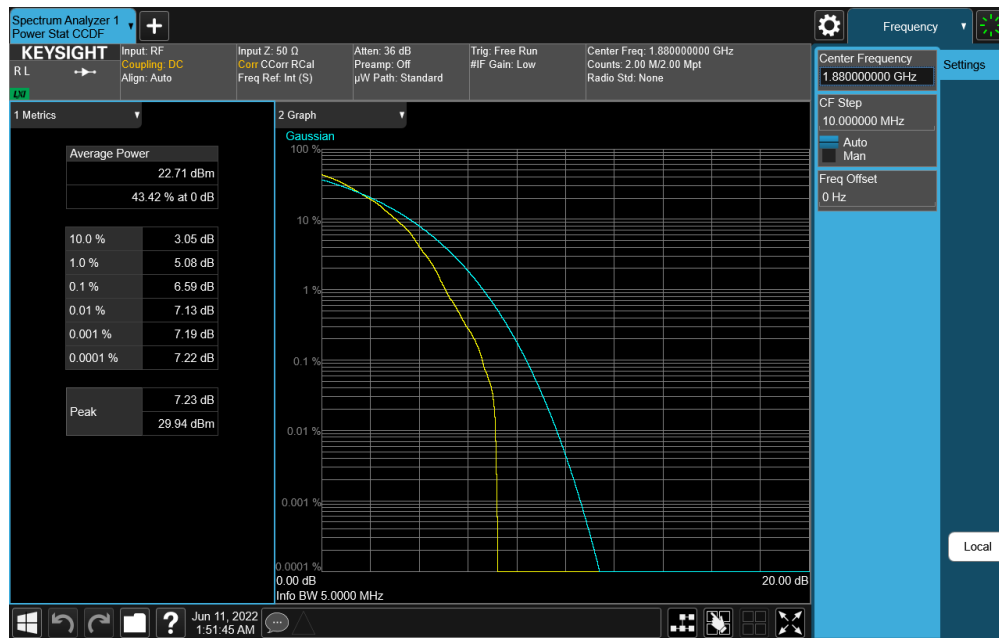
FCC ID: BCGA2435	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-269. PAR Plot (NR Band n2 - 5.0MHz DFT-s-OFDM 16-QAM - Full RB)

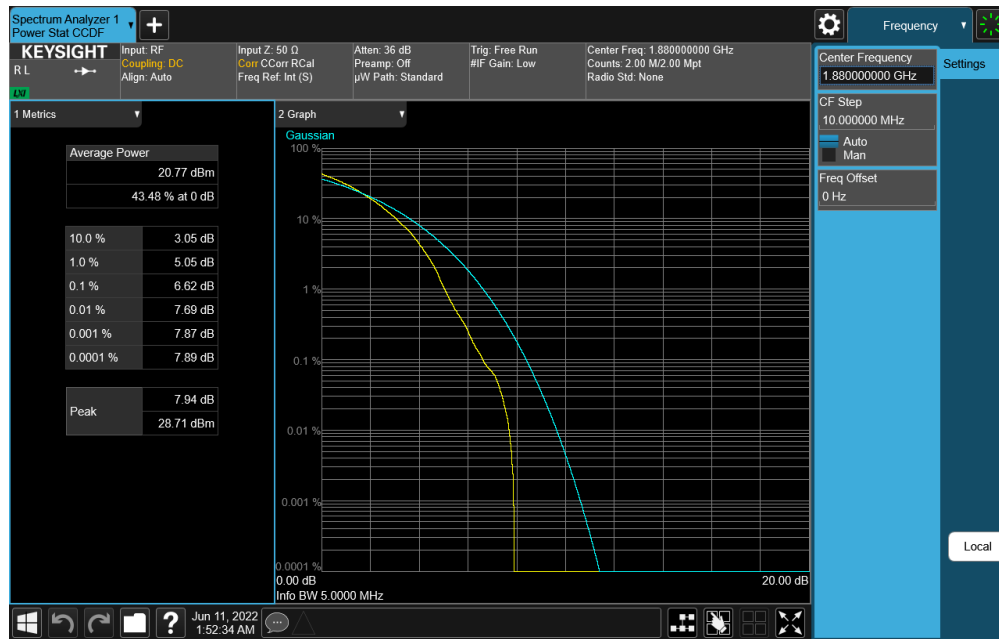


Plot 7-270. PAR Plot (NR Band n2 - 5.0MHz DFT-s-OFDM 64-QAM - Full RB)

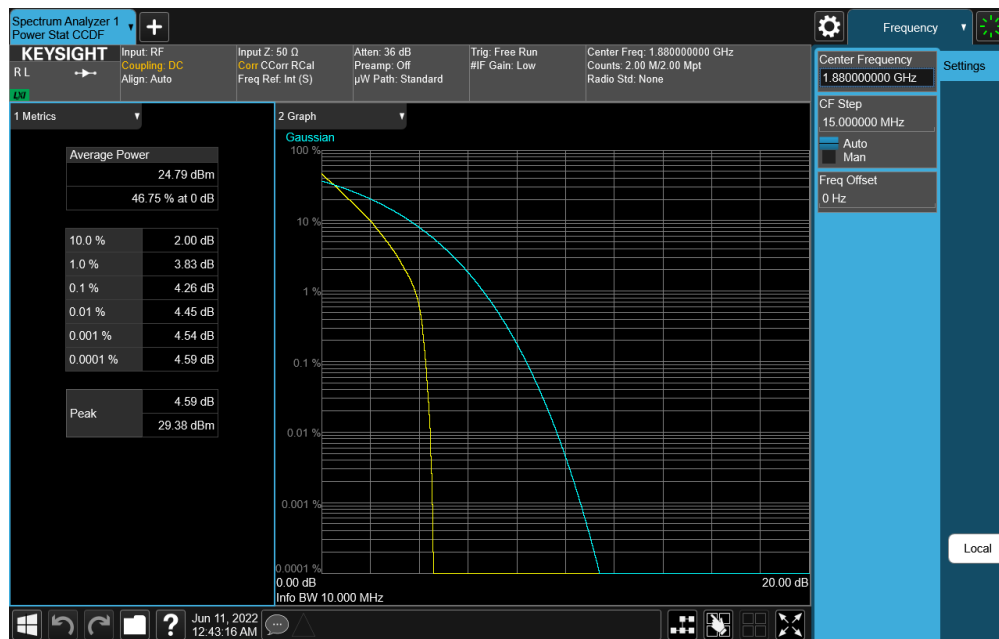
FCC ID: BCGA2435	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090025-02.BCG	Test Dates: 05/30/2022 - 9/6/2022	EUT Type: Tablet Device	Page 156 of 213

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Plot 7-271. PAR Plot (NR Band n2 - 5.0MHz DFT-s-OFDM 256-QAM - Full RB)

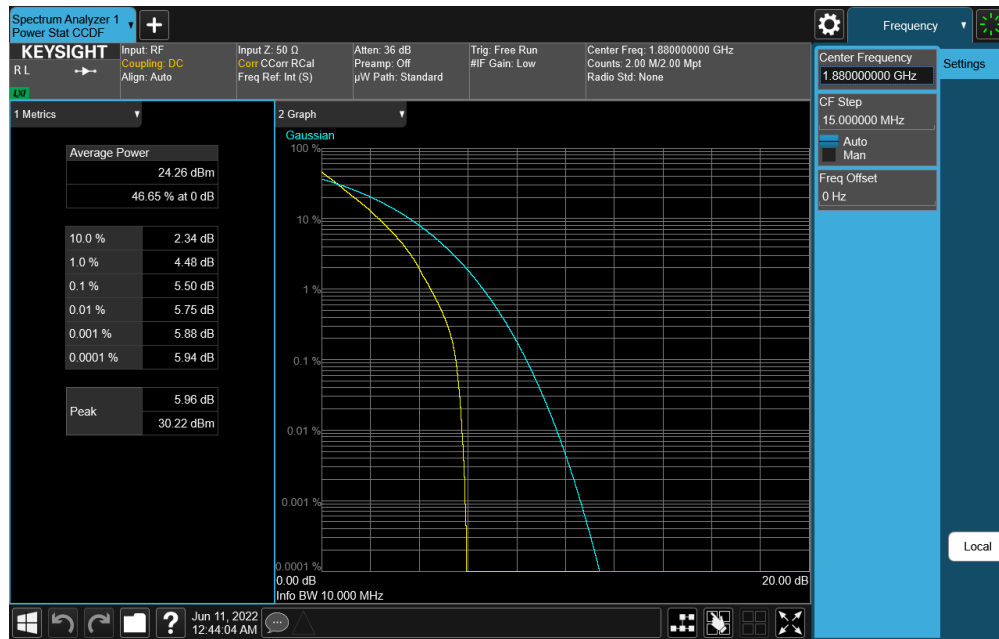


Plot 7-272. PAR Plot (NR Band n2 - 10.0MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

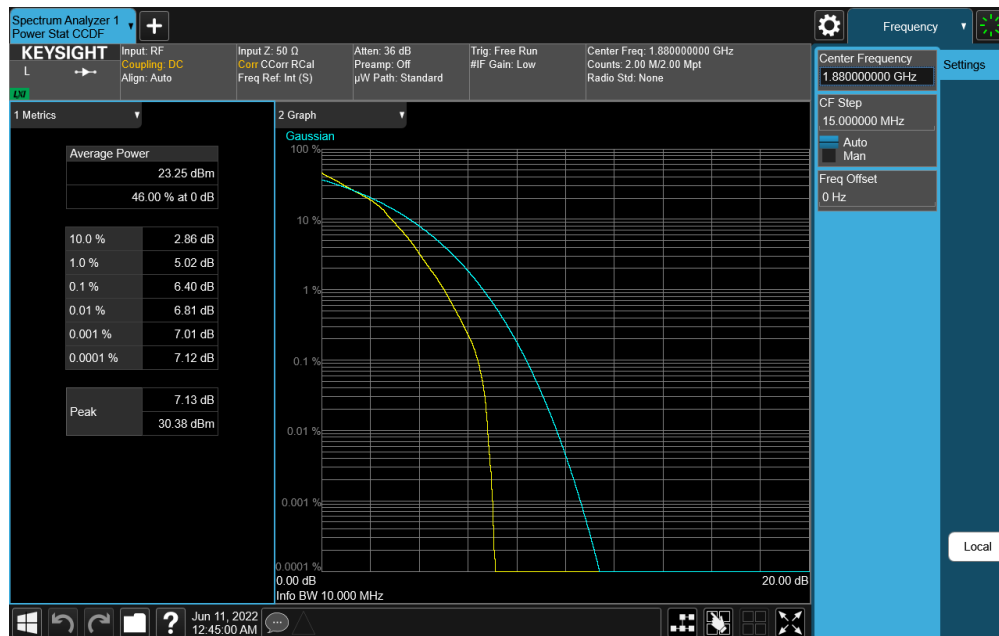
FCC ID: BCGA2435	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-273. PAR Plot (NR Band n2 - 10.0MHz DFT-s-OFDM QPSK - Full RB)

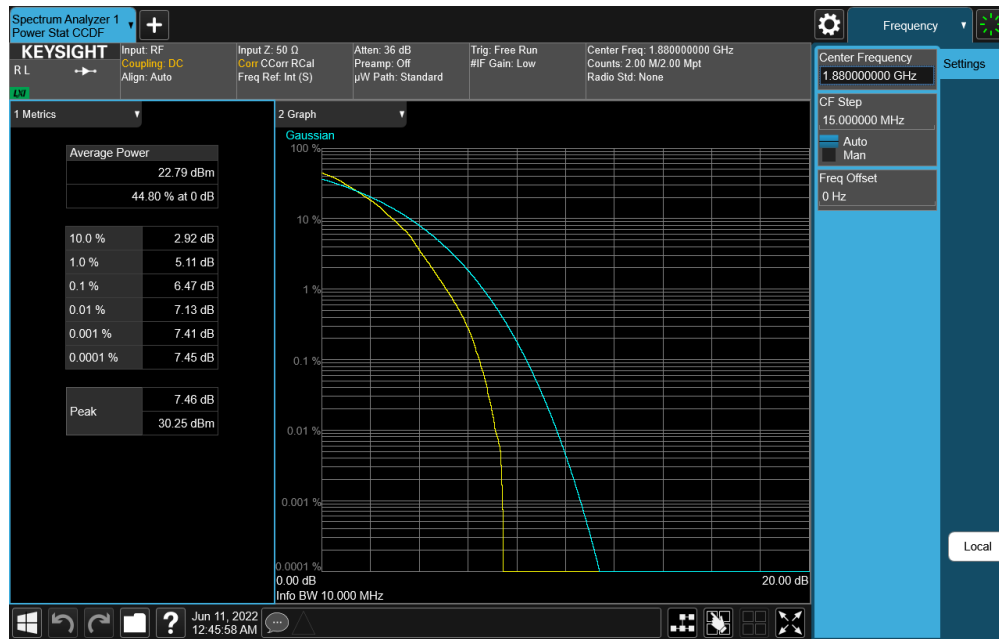


Plot 7-274. PAR Plot (NR Band n2 - 10.0MHz DFT-s-OFDM 16-QAM - Full RB)

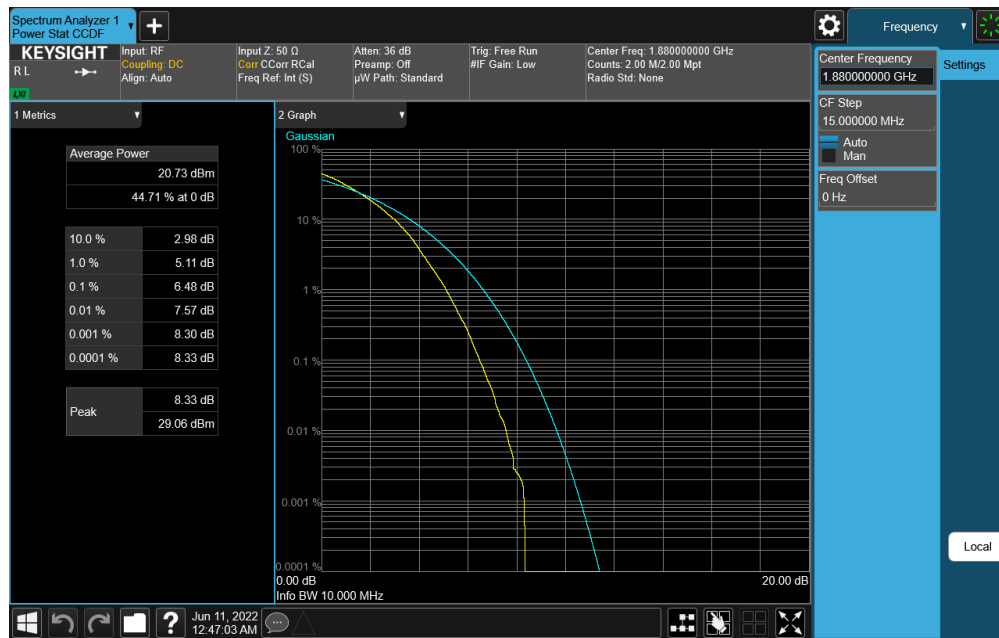
FCC ID: BCGA2435	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-275. PAR Plot (NR Band n2 - 10.0MHz DFT-s-OFDM 64-QAM - Full RB)

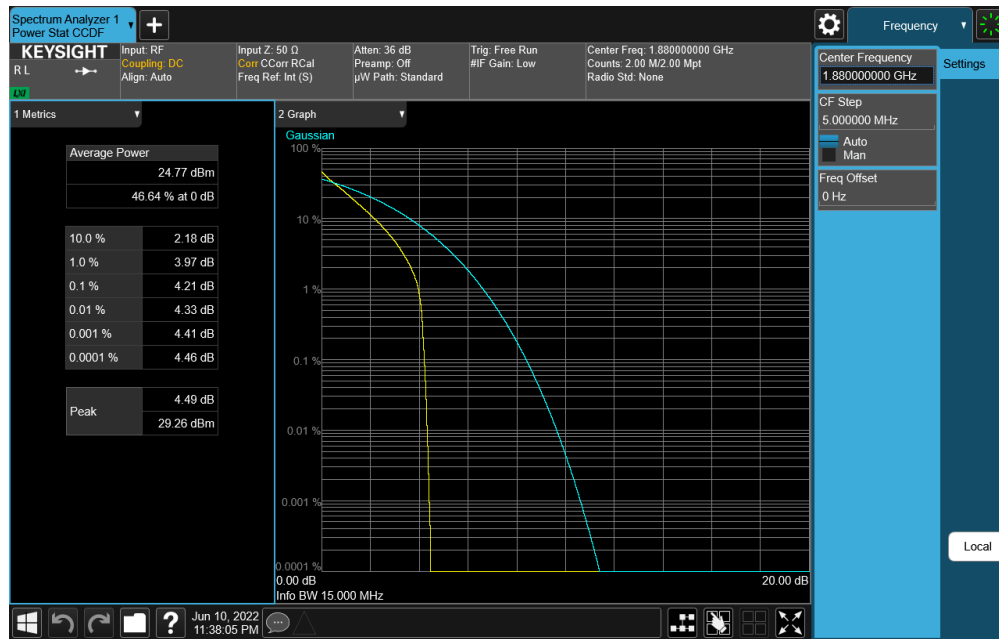


Plot 7-276. PAR Plot (NR Band n2 - 10.0MHz DFT-s-OFDM 256-QAM - Full RB)

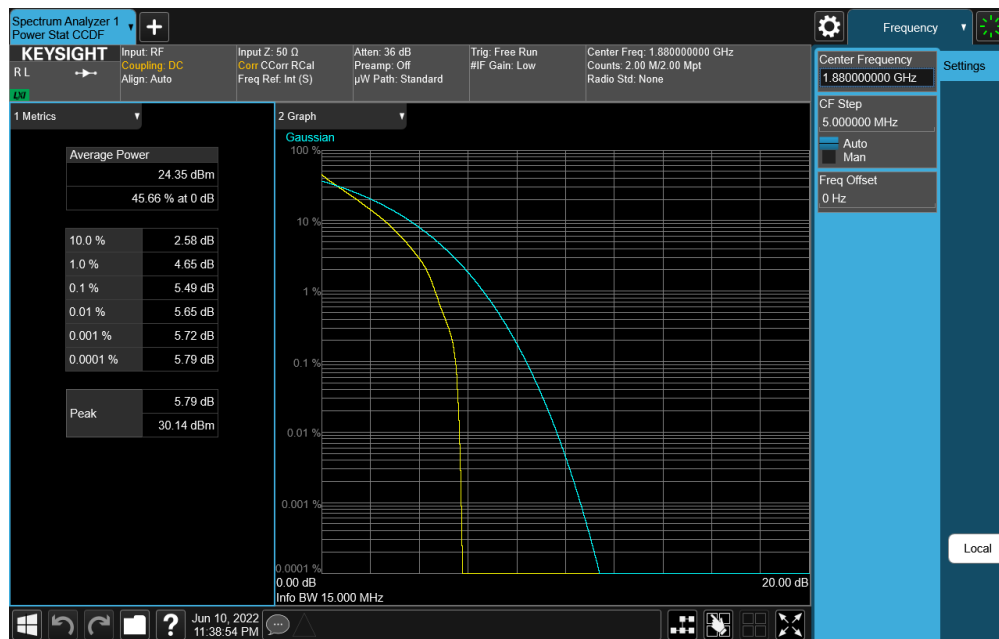
FCC ID: BCGA2435	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-277. PAR Plot (NR Band n2 - 15.0MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

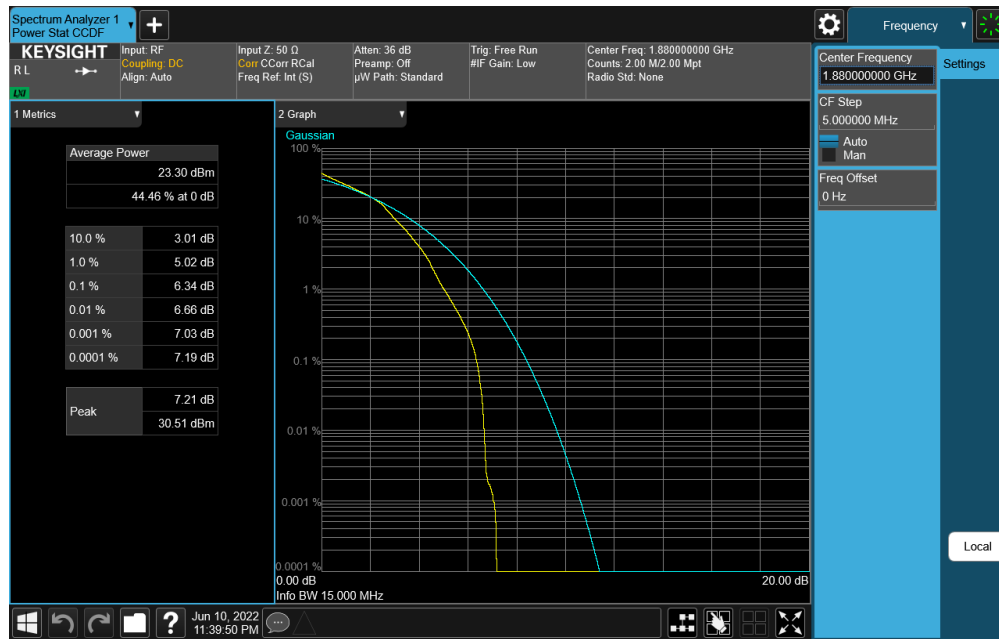


Plot 7-278. PAR Plot (NR Band n2 - 15.0MHz DFT-s-OFDM QPSK - Full RB)

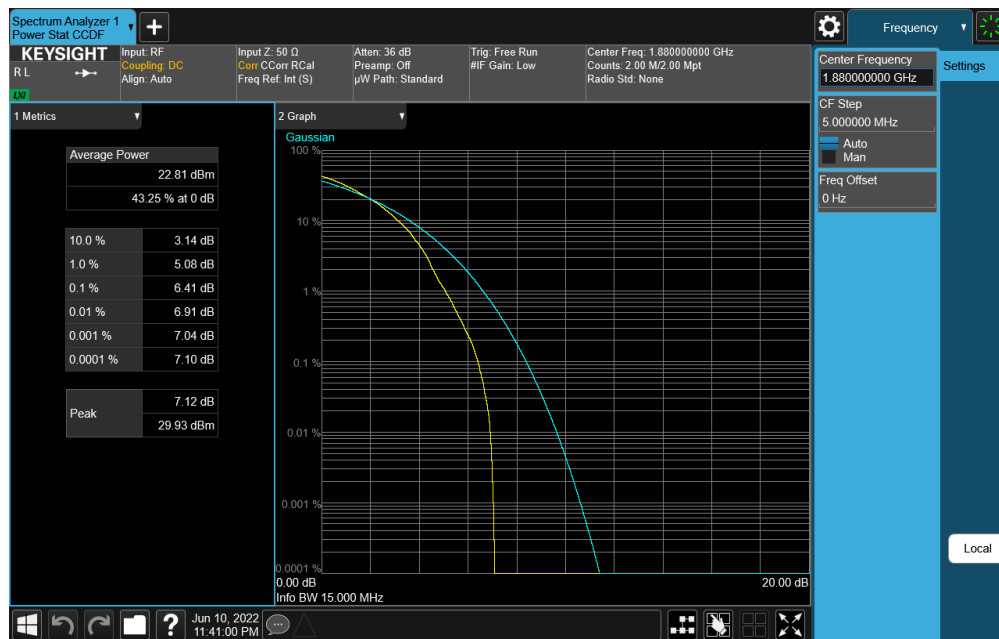
FCC ID: BCGA2435	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-279. PAR Plot (NR Band n2 - 15.0MHz DFT-s-OFDM 16-QAM - Full RB)

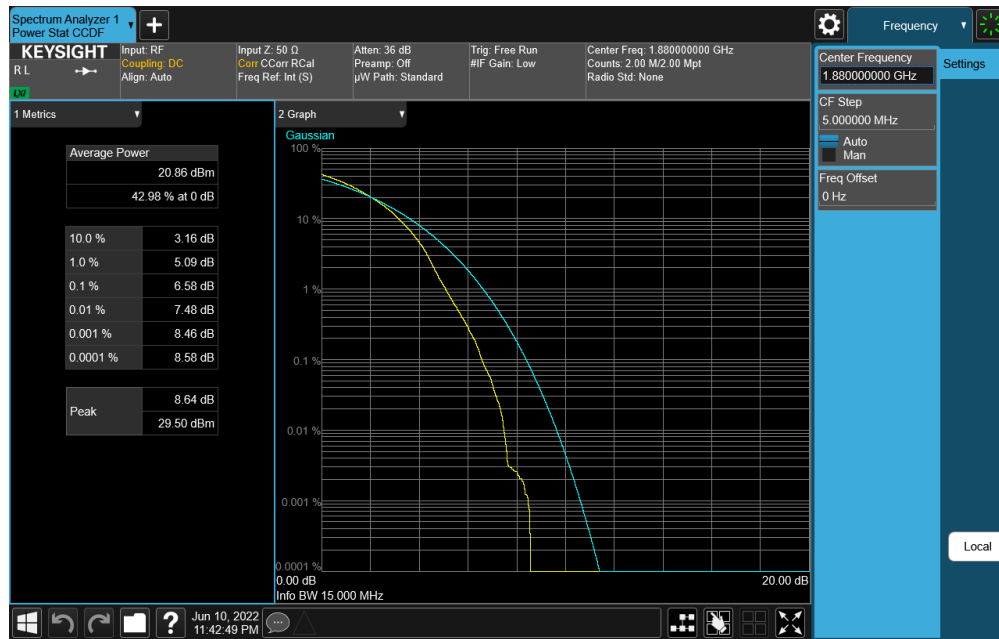


Plot 7-280. PAR Plot (NR Band n2 - 15.0MHz DFT-s-OFDM 64-QAM - Full RB)

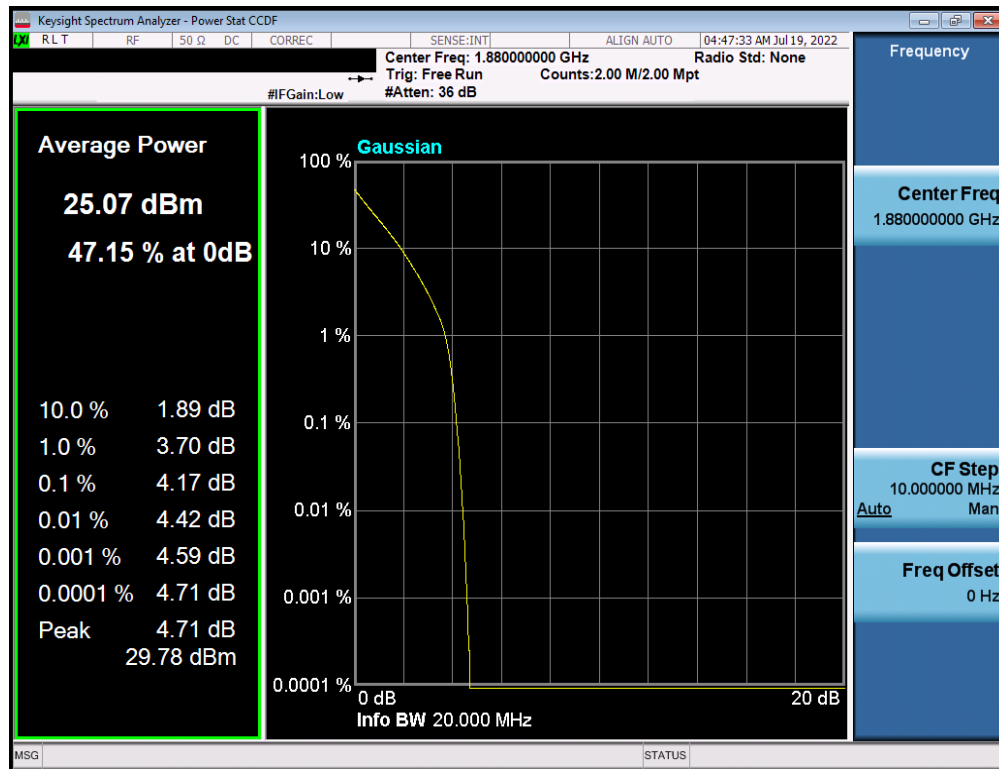
FCC ID: BCGA2435	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-281. PAR Plot (NR Band n2 - 15.0MHz DFT-s-OFDM 256-QAM - Full RB)

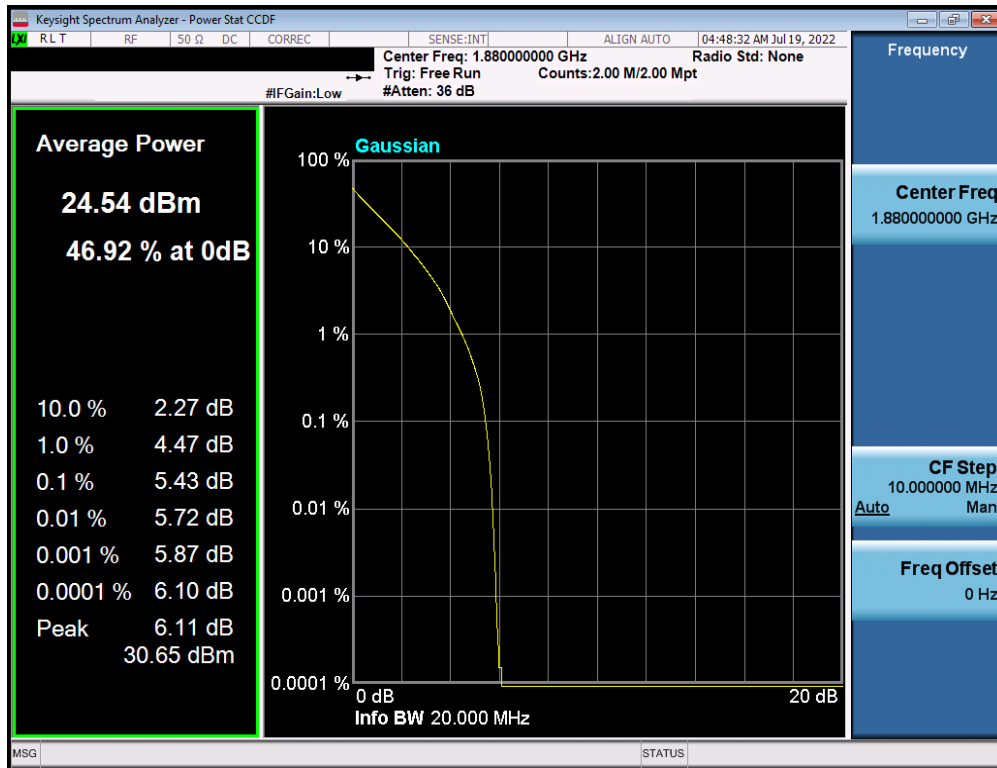


Plot 7-282. PAR Plot (NR Band n2 - 20.0MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

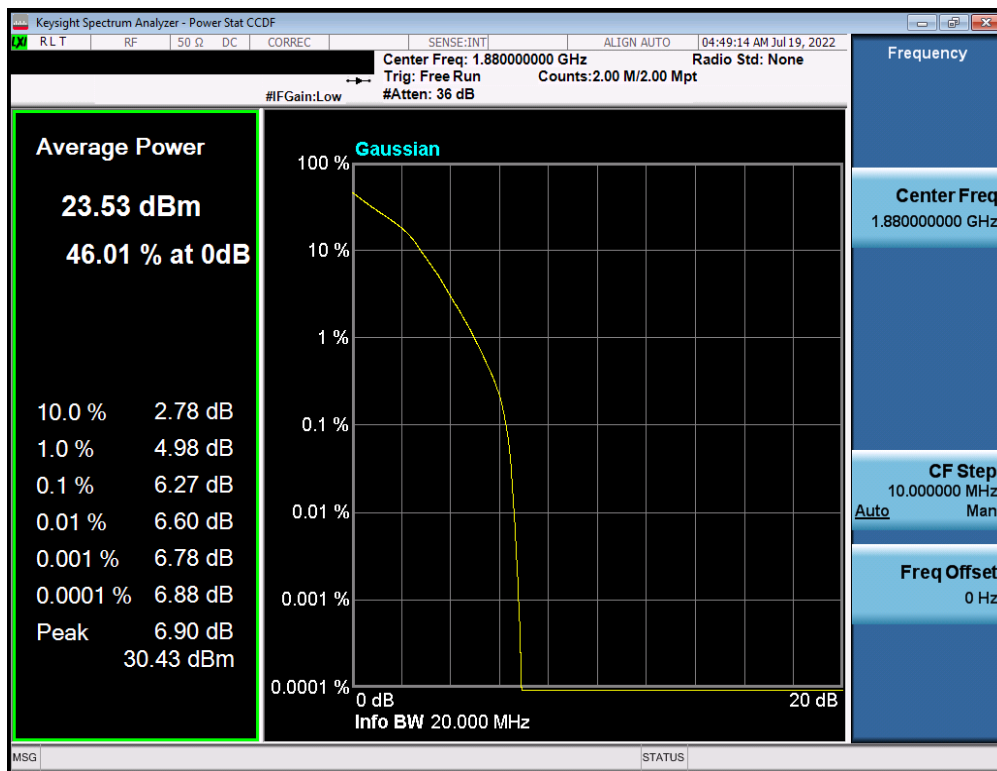
FCC ID: BCGA2435	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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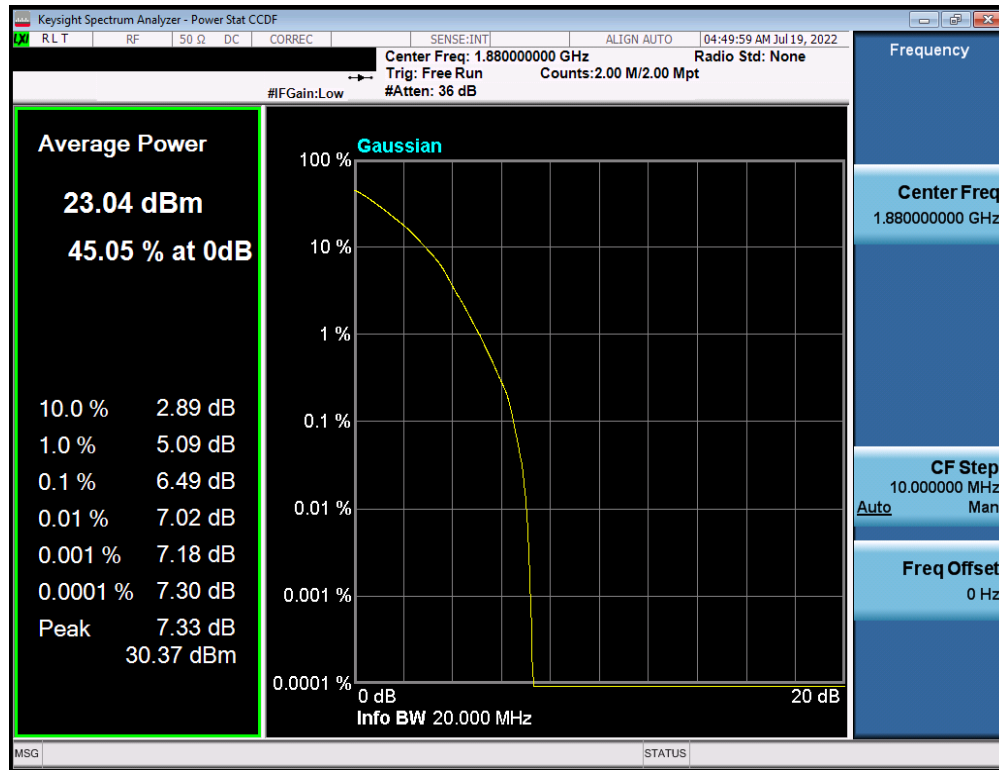
Plot 7-283. PAR Plot (NR Band n2 - 20.0MHz DFT-s-OFDM QPSK - Full RB)



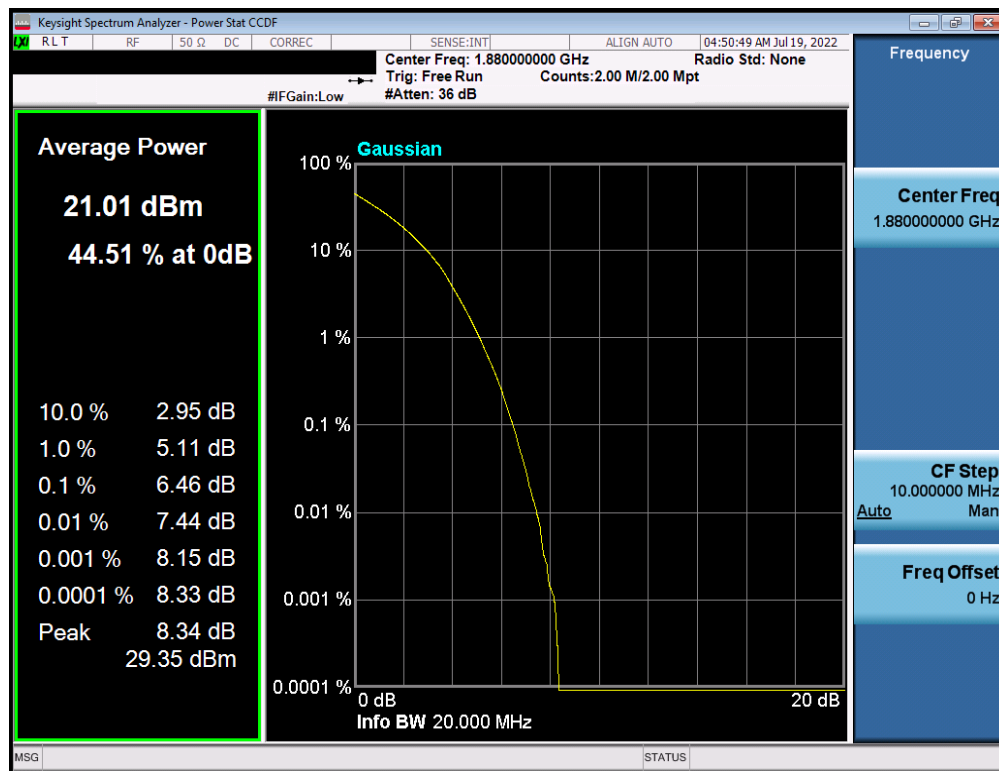
Plot 7-284. PAR Plot (NR Band n2 - 20.0MHz DFT-s-OFDM 16-QAM - Full RB)

FCC ID: BCGA2435	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-285. PAR Plot (NR Band n2 - 20.0MHz DFT-s-OFDM 64-QAM - Full RB)

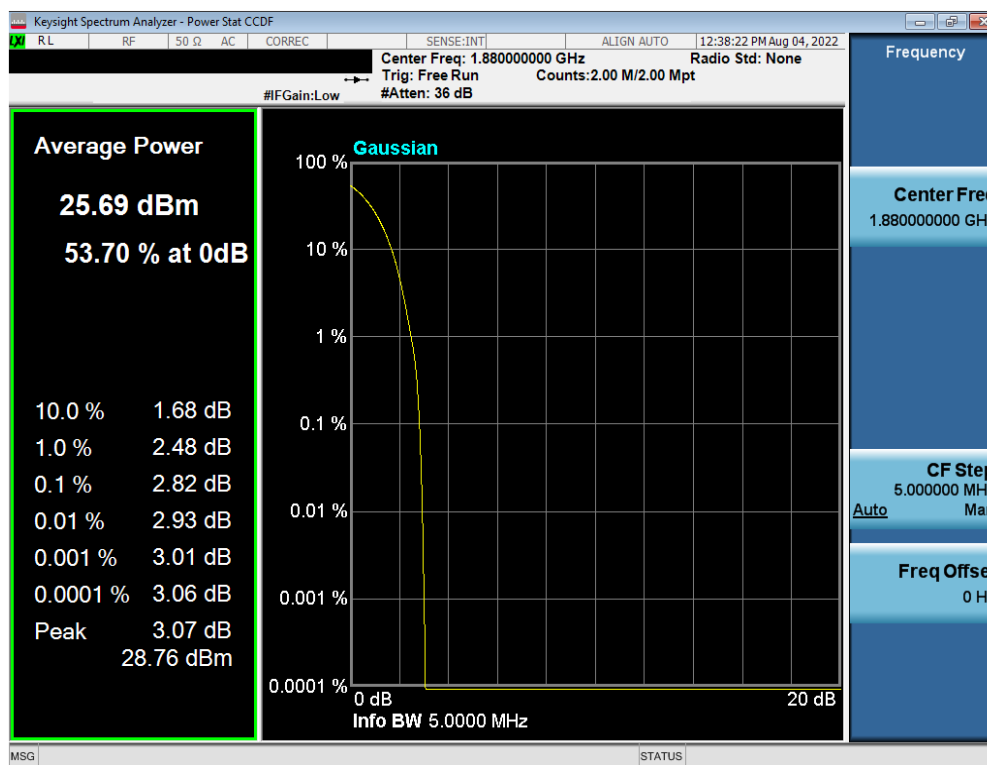


Plot 7-286. PAR Plot (NR Band n2 - 20.0MHz DFT-s-OFDM 256-QAM - Full RB)

FCC ID: BCGA2435	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-287. PAR Plot (WCDMA, Ch. 9400)

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7.6 Radiated Power (EIRP)

§24.232(c)

Test Overview

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 EIRP from the conducted RF output power measured is:

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

Where:

EIRP = Equivalent Isotropic Radiated Power (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 dBi (EIRP)

Test Setup

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

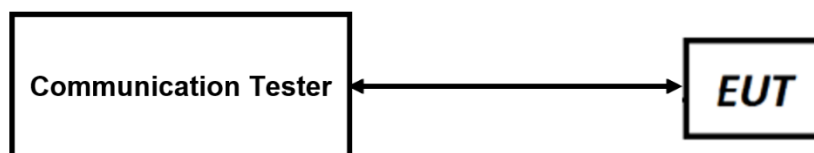


Figure 7-5. EIRP Measurement Setup

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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. The Ant. Gains (GT) are listed in dBi.
5. This device employs UMTS technology with WCDM (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".

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7.6.1 Antenna 4b – EIRP

LTE Band 25

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	1850.7	-2.70	1 / 3	25.66	22.96	0.198	33.01	-10.05
		1882.5	-2.70	1 / 3	25.70	23.00	0.200	33.01	-10.01
		1914.3	-2.70	1 / 0	25.44	22.74	0.188	33.01	-10.27
	16-QAM	1914.3	-2.70	1 / 0	24.95	22.25	0.168	33.01	-10.76
	64-QAM	1914.3	-2.70	1 / 0	23.99	21.29	0.135	33.01	-11.72
	256-QAM	1914.3	-2.70	1 / 0	20.75	18.05	0.064	33.01	-14.96
3 MHz	QPSK	1851.5	-2.70	1 / 7	25.54	22.84	0.192	33.01	-10.17
		1882.5	-2.70	1 / 7	25.70	23.00	0.200	33.01	-10.01
		1913.5	-2.70	1 / 7	25.64	22.94	0.197	33.01	-10.07
	16-QAM	1913.5	-2.70	1 / 0	25.06	22.36	0.172	33.01	-10.65
	64-QAM	1851.5	-2.70	1 / 7	23.95	21.25	0.133	33.01	-11.76
	256-QAM	1913.5	-2.70	1 / 7	20.88	18.18	0.066	33.01	-14.83
5 MHz	QPSK	1852.5	-2.70	1 / 12	25.70	23.00	0.200	33.01	-10.01
		1882.5	-2.70	1 / 12	25.66	22.96	0.198	33.01	-10.05
		1912.5	-2.70	1 / 12	25.42	22.72	0.187	33.01	-10.29
	16-QAM	1882.5	-2.70	1 / 12	24.99	22.29	0.169	33.01	-10.72
	64-QAM	1882.5	-2.70	1 / 24	23.94	21.24	0.133	33.01	-11.77
	256-QAM	1912.5	-2.70	1 / 0	20.68	17.98	0.063	33.01	-15.03
10 MHz	QPSK	1855.0	-2.70	1 / 0	25.42	22.72	0.187	33.01	-10.29
		1882.5	-2.70	1 / 0	25.70	23.00	0.200	33.01	-10.01
		1910.0	-2.70	1 / 0	25.64	22.94	0.197	33.01	-10.07
	16-QAM	1910.0	-2.70	1 / 49	25.18	22.48	0.177	33.01	-10.53
	64-QAM	1855.0	-2.70	1 / 49	23.95	21.25	0.133	33.01	-11.76
	256-QAM	1882.5	-2.70	1 / 25	20.87	18.17	0.066	33.01	-14.84
15 MHz	QPSK	1857.5	-2.70	1 / 37	25.60	22.90	0.195	33.01	-10.11
		1882.5	-2.70	1 / 0	25.70	23.00	0.200	33.01	-10.01
		1907.5	-2.70	1 / 37	25.61	22.91	0.195	33.01	-10.10
	16-QAM	1882.5	-2.70	1 / 37	24.99	22.29	0.169	33.01	-10.72
	64-QAM	1857.5	-2.70	1 / 37	23.93	21.23	0.133	33.01	-11.78
	256-QAM	1907.5	-2.70	1 / 37	20.95	18.25	0.067	33.01	-14.76
20 MHz	QPSK	1860.0	-2.70	1 / 50	25.70	23.00	0.200	33.01	-10.01
		1882.5	-2.70	1 / 50	25.66	22.96	0.198	33.01	-10.05
		1905.0	-2.70	1 / 50	25.68	22.98	0.199	33.01	-10.03
	16-QAM	1905.0	-2.70	1 / 50	25.50	22.80	0.191	33.01	-10.21
	64-QAM	1905.0	-2.70	1 / 0	24.19	21.49	0.141	33.01	-11.52
	256-QAM	1905.0	-2.70	1 / 50	21.14	18.44	0.070	33.01	-14.57

Table 7-2. Antenna 4b EIRP Data (LTE Band 25)

FCC ID: BCGA2435	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090025-02.BCG	Test Dates: 05/30/2022 - 9/6/2022	EUT Type: Tablet Device	Page 168 of 213

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LTE Band 2

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	1850.7	-2.70	1 / 0	25.70	23.00	0.200	33.01	-10.01
		1880.0	-2.70	1 / 0	25.50	22.80	0.191	33.01	-10.21
		1909.3	-2.70	1 / 0	25.68	22.98	0.199	33.01	-10.03
	16-QAM	1850.7	-2.70	1 / 0	24.73	22.03	0.160	33.01	-10.98
	64-QAM	1850.7	-2.70	1 / 3	24.00	21.30	0.135	33.01	-11.71
	256-QAM	1909.3	-2.70	1 / 3	20.60	17.90	0.062	33.01	-15.11
3 MHz	QPSK	1851.5	-2.70	1 / 7	25.58	22.88	0.194	33.01	-10.13
		1880.0	-2.70	1 / 7	25.70	23.00	0.200	33.01	-10.01
		1908.5	-2.70	1 / 7	25.55	22.85	0.193	33.01	-10.16
	16-QAM	1851.5	-2.70	1 / 7	24.84	22.14	0.164	33.01	-10.87
	64-QAM	1851.5	-2.70	1 / 7	24.00	21.30	0.135	33.01	-11.71
	256-QAM	1908.5	-2.70	1 / 0	21.04	18.34	0.068	33.01	-14.67
5 MHz	QPSK	1852.5	-2.70	1 / 12	25.70	23.00	0.200	33.01	-10.01
		1880.0	-2.70	1 / 12	25.52	22.82	0.191	33.01	-10.19
		1907.5	-2.70	1 / 12	25.40	22.70	0.186	33.01	-10.31
	16-QAM	1852.5	-2.70	1 / 12	24.64	21.94	0.156	33.01	-11.07
	64-QAM	1907.5	-2.70	1 / 0	23.95	21.25	0.133	33.01	-11.76
	256-QAM	1880.0	-2.70	1 / 12	20.85	18.15	0.065	33.01	-14.86
10 MHz	QPSK	1855.0	-2.70	1 / 0	25.55	22.85	0.193	33.01	-10.16
		1880.0	-2.70	1 / 49	25.70	23.00	0.200	33.01	-10.01
		1905.0	-2.70	1 / 25	25.60	22.90	0.195	33.01	-10.11
	16-QAM	1855.0	-2.70	1 / 0	24.83	22.13	0.163	33.01	-10.88
	64-QAM	1905.0	-2.70	1 / 25	24.11	21.41	0.138	33.01	-11.60
	256-QAM	1880.0	-2.70	1 / 25	20.85	18.15	0.065	33.01	-14.86
15 MHz	QPSK	1857.5	-2.70	1 / 37	25.54	22.84	0.192	33.01	-10.17
		1880.0	-2.70	1 / 37	25.70	23.00	0.200	33.01	-10.01
		1902.5	-2.70	1 / 37	25.56	22.86	0.193	33.01	-10.15
	16-QAM	1880.0	-2.70	1 / 37	24.77	22.07	0.161	33.01	-10.94
	64-QAM	1880.0	-2.70	1 / 37	23.78	21.08	0.128	33.01	-11.93
	256-QAM	1857.5	-2.70	1 / 37	20.90	18.20	0.066	33.01	-14.81
20 MHz	QPSK	1860.0	-2.70	1 / 50	25.55	22.85	0.193	33.01	-10.16
		1880.0	-2.70	1 / 50	25.70	23.00	0.200	33.01	-10.01
		1900.0	-2.70	1 / 50	25.69	22.99	0.199	33.01	-10.02
	16-QAM	1860.0	-2.70	1 / 50	25.04	22.34	0.171	33.01	-10.67
	64-QAM	1860.0	-2.70	1 / 50	24.05	21.35	0.136	33.01	-11.66
	256-QAM	1860.0	-2.70	1 / 99	21.16	18.46	0.070	33.01	-14.55

Table 7-3. Antenna 4b EIRP Data (LTE Band 2)

FCC ID: BCGA2435	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090025-02.BCG	Test Dates: 05/30/2022 - 9/6/2022	EUT Type: Tablet Device	Page 169 of 213

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NR Band n25

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	1852.5	-2.70	1 / 12	25.66	22.96	0.198	33.01	-10.05
		1882.5	-2.70	1 / 12	25.53	22.83	0.192	33.01	-10.18
		1912.5	-2.70	1 / 12	25.49	22.79	0.190	33.01	-10.22
	QPSK	1852.5	-2.70	1 / 12	25.40	22.70	0.186	33.01	-10.31
		1882.5	-2.70	1 / 12	25.40	22.70	0.186	33.01	-10.31
		1912.5	-2.70	1 / 12	25.21	22.51	0.178	33.01	-10.50
	16-QAM	1882.5	-2.70	1 / 12	24.83	22.13	0.163	33.01	-10.88
	64-QAM	1882.5	-2.70	1 / 12	23.36	20.66	0.116	33.01	-12.35
10 MHz	$\pi/2$ BPSK	1852.5	-2.70	1 / 23	22.18	19.48	0.089	33.01	-13.53
		1855.0	-2.70	1 / 25	25.37	22.67	0.185	33.01	-10.34
		1882.5	-2.70	1 / 25	25.28	22.58	0.181	33.01	-10.43
	QPSK	1910.0	-2.70	1 / 25	25.27	22.57	0.181	33.01	-10.44
		1855.0	-2.70	1 / 25	25.22	22.52	0.179	33.01	-10.49
		1882.5	-2.70	1 / 25	25.21	22.51	0.178	33.01	-10.50
		1910.0	-2.70	1 / 25	25.16	22.46	0.176	33.01	-10.55
	16-QAM	1855.0	-2.70	1 / 25	24.95	22.25	0.168	33.01	-10.76
15 MHz	64-QAM	1882.5	-2.70	1 / 25	23.26	20.56	0.114	33.01	-12.45
		1855.0	-2.70	1 / 0	22.07	19.37	0.086	33.01	-13.64
		1857.5	-2.70	1 / 0	25.70	23.00	0.200	33.01	-10.01
	$\pi/2$ BPSK	1882.5	-2.70	1 / 37	25.66	22.96	0.198	33.01	-10.05
		1907.5	-2.70	1 / 37	25.59	22.89	0.195	33.01	-10.12
		1857.5	-2.70	1 / 37	25.32	22.62	0.183	33.01	-10.39
	QPSK	1882.5	-2.70	1 / 37	25.35	22.65	0.184	33.01	-10.36
		1907.5	-2.70	1 / 37	25.47	22.77	0.189	33.01	-10.24
20 MHz	16-QAM	1857.5	-2.70	1 / 37	24.69	21.99	0.158	33.01	-11.02
		1857.5	-2.70	1 / 37	23.85	21.15	0.130	33.01	-11.86
		1907.5	-2.70	1 / 73	22.00	19.30	0.085	33.01	-13.71
	64-QAM	1857.5	-2.70	1 / 73	22.00	19.30	0.085	33.01	-13.71
		1860.0	-2.70	1 / 0	25.69	22.99	0.199	33.01	-10.02
		1882.5	-2.70	1 / 50	25.51	22.81	0.191	33.01	-10.20
	$\pi/2$ BPSK	1905.0	-2.70	1 / 98	25.55	22.85	0.193	33.01	-10.16
		1860.0	-2.70	1 / 98	25.23	22.53	0.179	33.01	-10.48
25 MHz	QPSK	1882.5	-2.70	1 / 98	25.21	22.51	0.178	33.01	-10.50
		1905.0	-2.70	1 / 0	25.33	22.63	0.183	33.01	-10.38
		1882.5	-2.70	1 / 0	25.45	22.75	0.188	33.01	-10.26
	16-QAM	1860.0	-2.70	1 / 0	23.80	21.10	0.129	33.01	-11.91
		1860.0	-2.70	1 / 0	21.86	19.16	0.082	33.01	-13.85
		1905.0	-2.70	1 / 0	21.86	19.16	0.082	33.01	-13.85
	64-QAM	1862.5	-2.70	1 / 0	25.63	22.93	0.196	33.01	-10.08
		1882.5	-2.70	1 / 0	25.66	22.96	0.198	33.01	-10.05
30 MHz	16-QAM	1902.5	-2.70	1 / 0	25.58	22.88	0.194	33.01	-10.13
		1862.5	-2.70	1 / 131	25.22	22.52	0.179	33.01	-10.49
		1882.5	-2.70	1 / 66	25.12	22.42	0.175	33.01	-10.59
	QPSK	1902.5	-2.70	1 / 131	25.18	22.48	0.177	33.01	-10.53
		1862.5	-2.70	1 / 66	24.84	22.14	0.164	33.01	-10.87
		1862.5	-2.70	1 / 131	23.77	21.07	0.128	33.01	-11.94
	256-QAM	1882.5	-2.70	1 / 0	21.99	19.29	0.085	33.01	-13.72
		1865.0	-2.70	1 / 158	25.53	22.83	0.192	33.01	-10.18
40 MHz	$\pi/2$ BPSK	1882.5	-2.70	1 / 158	25.28	22.58	0.181	33.01	-10.43
		1900.0	-2.70	1 / 158	25.57	22.87	0.194	33.01	-10.14
		1865.0	-2.70	1 / 0	25.34	22.64	0.184	33.01	-10.37
	QPSK	1882.5	-2.70	1 / 80	25.42	22.72	0.187	33.01	-10.29
		1900.0	-2.70	1 / 0	25.55	22.85	0.193	33.01	-10.16
		1882.5	-2.70	1 / 0	24.96	22.26	0.168	33.01	-10.75
	16-QAM	1900.0	-2.70	1 / 80	23.50	20.80	0.120	33.01	-12.21
		1882.5	-2.70	1 / 0	22.15	19.45	0.088	33.01	-13.56
40 MHz	64-QAM	1870.0	-2.70	1 / 214	25.66	22.96	0.198	33.01	-10.05
		1882.5	-2.70	1 / 108	25.63	22.93	0.196	33.01	-10.08
		1895.0	-2.70	1 / 0	25.62	22.92	0.196	33.01	-10.09
	QPSK	1870.0	-2.70	1 / 0	25.44	22.74	0.188	33.01	-10.27
		1882.5	-2.70	1 / 0	25.33	22.63	0.183	33.01	-10.38
		1895.0	-2.70	1 / 0	25.40	22.70	0.186	33.01	-10.31
	16-QAM	1870.0	-2.70	1 / 108	24.10	21.40	0.138	33.01	-11.61
		1895.0	-2.70	1 / 0	23.48	20.78	0.120	33.01	-12.23
	256-QAM	1882.5	-2.70	1 / 0	22.32	19.62	0.092	33.01	-13.39

Table 7-4. Antenna 4b EIRP Data (NR Band n25)

FCC ID: BCGA2435		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2205090025-02.BCG	Test Dates: 05/30/2022 - 9/6/2022	EUT Type: Tablet Device	Page 170 of 213

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NR Band n2

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	1852.5	-2.70	1 / 0	25.60	22.90	0.195	33.01	-10.11
		1880.0	-2.70	1 / 23	25.48	22.78	0.190	33.01	-10.23
		1907.5	-2.70	1 / 0	25.49	22.79	0.190	33.01	-10.22
	QPSK	1852.5	-2.70	1 / 0	25.36	22.66	0.185	33.01	-10.35
		1880.0	-2.70	1 / 0	25.17	22.47	0.177	33.01	-10.54
		1907.5	-2.70	1 / 0	25.67	22.97	0.198	33.01	-10.04
	16-QAM	1852.5	-2.70	1 / 23	25.01	22.31	0.170	33.01	-10.70
	64-QAM	1880.0	-2.70	1 / 0	23.40	20.70	0.117	33.01	-12.31
	256-QAM	1852.5	-2.70	1 / 0	22.21	19.51	0.089	33.01	-13.50
10 MHz	$\pi/2$ BPSK	1855.0	-2.70	1 / 48	25.58	22.88	0.194	33.01	-10.13
		1880.0	-2.70	1 / 0	25.63	22.93	0.196	33.01	-10.08
		1905.0	-2.70	1 / 48	25.62	22.92	0.196	33.01	-10.09
	QPSK	1855.0	-2.70	1 / 25	25.57	22.87	0.194	33.01	-10.14
		1880.0	-2.70	1 / 25	25.41	22.71	0.187	33.01	-10.30
		1905.0	-2.70	1 / 0	25.69	22.99	0.199	33.01	-10.02
	16-QAM	1880.0	-2.70	1 / 25	25.06	22.36	0.172	33.01	-10.65
	64-QAM	1855.0	-2.70	1 / 25	23.42	20.72	0.118	33.01	-12.29
	256-QAM	1905.0	-2.70	1 / 25	22.30	19.60	0.091	33.01	-13.41
15 MHz	$\pi/2$ BPSK	1857.5	-2.70	1 / 0	25.66	22.96	0.198	33.01	-10.05
		1880.0	-2.70	1 / 73	25.56	22.86	0.193	33.01	-10.15
		1902.5	-2.70	1 / 73	25.63	22.93	0.196	33.01	-10.08
	QPSK	1857.5	-2.70	1 / 37	25.70	23.00	0.200	33.01	-10.01
		1880.0	-2.70	1 / 37	25.55	22.85	0.193	33.01	-10.16
		1902.5	-2.70	1 / 37	25.53	22.83	0.192	33.01	-10.18
	16-QAM	1902.5	-2.70	1 / 37	25.84	23.14	0.206	33.01	-9.87
	64-QAM	1880.0	-2.70	1 / 37	23.58	20.88	0.122	33.01	-12.13
	256-QAM	1902.5	-2.70	1 / 0	22.42	19.72	0.094	33.01	-13.29
20 MHz	$\pi/2$ BPSK	1860.0	-2.70	1 / 50	25.65	22.95	0.197	33.01	-10.06
		1880.0	-2.70	1 / 50	25.70	23.00	0.200	33.01	-10.01
		1900.0	-2.70	1 / 50	25.62	22.92	0.196	33.01	-10.09
	QPSK	1860.0	-2.70	1 / 98	25.22	22.52	0.179	33.01	-10.49
		1880.0	-2.70	1 / 0	25.10	22.40	0.174	33.01	-10.61
		1900.0	-2.70	1 / 0	25.11	22.41	0.174	33.01	-10.60
	16-QAM	1900.0	-2.70	1 / 50	24.92	22.22	0.167	33.01	-10.79
	64-QAM	1900.0	-2.70	1 / 50	23.64	20.94	0.124	33.01	-12.07
	256-QAM	1860.0	-2.70	1 / 50	22.25	19.55	0.090	33.01	-13.46

Table 7-5. Antenna 4b EIRP Data (NR Band n2)

FCC ID: BCGA2435	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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WCDMA PCS

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1852.40	WCDMA1900	25.66	-2.70	22.96	0.198	33.01	-10.05
1880.00	WCDMA1900	25.62	-2.70	22.92	0.196	33.01	-10.09
1907.60	WCDMA1900	25.63	-2.70	22.93	0.196	33.01	-10.08

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

FCC ID: BCGA2435	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090025-02.BCG	Test Dates: 05/30/2022 - 9/6/2022	EUT Type: Tablet Device	Page 172 of 213

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7.6.2 Antenna 1 – EIRP

LTE Band 25

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	1850.7	1.50	1 / 3	22.36	23.86	0.243	33.01	-9.15
		1882.5	1.50	1 / 3	22.70	24.20	0.263	33.01	-8.81
		1914.3	1.50	1 / 0	22.52	24.02	0.252	33.01	-8.99
	16-QAM	1850.7	1.50	1 / 3	21.68	23.18	0.208	33.01	-9.83
	64-QAM	1914.3	1.50	1 / 0	20.55	22.05	0.160	33.01	-10.96
	256-QAM	1882.5	1.50	1 / 0	17.72	19.22	0.084	33.01	-13.79
3 MHz	QPSK	1851.5	1.50	1 / 7	22.50	24.00	0.251	33.01	-9.01
		1882.5	1.50	1 / 7	22.70	24.20	0.263	33.01	-8.81
		1913.5	1.50	1 / 7	22.49	23.99	0.251	33.01	-9.02
	16-QAM	1882.5	1.50	1 / 0	21.75	23.25	0.211	33.01	-9.76
	64-QAM	1913.5	1.50	1 / 14	20.87	22.37	0.173	33.01	-10.64
	256-QAM	1882.5	1.50	1 / 7	18.03	19.53	0.090	33.01	-13.48
5 MHz	QPSK	1852.5	1.50	1 / 12	22.70	24.20	0.263	33.01	-8.81
		1882.5	1.50	1 / 12	22.69	24.19	0.262	33.01	-8.82
		1912.5	1.50	1 / 12	22.47	23.97	0.249	33.01	-9.04
	16-QAM	1882.5	1.50	1 / 12	21.78	23.28	0.213	33.01	-9.73
	64-QAM	1852.5	1.50	1 / 0	20.80	22.30	0.170	33.01	-10.71
	256-QAM	1912.5	1.50	1 / 0	17.73	19.23	0.084	33.01	-13.78
10 MHz	QPSK	1855.0	1.50	1 / 0	22.61	24.11	0.258	33.01	-8.90
		1882.5	1.50	1 / 25	22.70	24.20	0.263	33.01	-8.81
		1910.0	1.50	1 / 25	22.59	24.09	0.256	33.01	-8.92
	16-QAM	1882.5	1.50	1 / 0	21.83	23.33	0.215	33.01	-9.68
	64-QAM	1855.0	1.50	1 / 25	20.94	22.44	0.175	33.01	-10.57
	256-QAM	1882.5	1.50	1 / 25	18.10	19.60	0.091	33.01	-13.41
15 MHz	QPSK	1857.5	1.50	1 / 37	22.59	24.09	0.256	33.01	-8.92
		1882.5	1.50	1 / 37	22.70	24.20	0.263	33.01	-8.81
		1907.5	1.50	1 / 37	22.45	23.95	0.248	33.01	-9.06
	16-QAM	1857.5	1.50	1 / 37	21.75	23.25	0.211	33.01	-9.76
	64-QAM	1882.5	1.50	1 / 37	20.87	22.37	0.173	33.01	-10.64
	256-QAM	1907.5	1.50	1 / 37	17.86	19.36	0.086	33.01	-13.65
20 MHz	QPSK	1860.0	1.50	1 / 50	22.52	24.02	0.252	33.01	-8.99
		1882.5	1.50	1 / 50	22.30	23.80	0.240	33.01	-9.21
		1905.0	1.50	1 / 50	22.70	24.20	0.263	33.01	-8.81
	16-QAM	1905.0	1.50	1 / 50	21.99	23.49	0.223	33.01	-9.52
	64-QAM	1905.0	1.50	1 / 50	20.91	22.41	0.174	33.01	-10.60
	256-QAM	1860.0	1.50	1 / 99	17.72	19.22	0.084	33.01	-13.79

Table 7-7. Antenna 1 EIRP Data (LTE Band 25)

FCC ID: BCGA2435	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 2

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	1850.7	1.50	1 / 3	22.70	24.20	0.263	33.01	-8.81
		1880.0	1.50	1 / 0	22.60	24.10	0.257	33.01	-8.91
		1909.3	1.50	1 / 0	22.68	24.18	0.262	33.01	-8.83
	16-QAM	1909.3	1.50	1 / 3	22.10	23.60	0.229	33.01	-9.41
	64-QAM	1909.3	1.50	1 / 0	21.27	22.77	0.189	33.01	-10.24
	256-QAM	1909.3	1.50	1 / 0	18.16	19.66	0.092	33.01	-13.35
3 MHz	QPSK	1851.5	1.50	1 / 0	22.70	24.20	0.263	33.01	-8.81
		1880.0	1.50	1 / 7	22.63	24.13	0.259	33.01	-8.88
		1908.5	1.50	1 / 7	22.59	24.09	0.256	33.01	-8.92
	16-QAM	1880.0	1.50	1 / 7	22.20	23.70	0.234	33.01	-9.31
	64-QAM	1908.5	1.50	1 / 7	21.26	22.76	0.189	33.01	-10.25
	256-QAM	1880.0	1.50	1 / 7	18.33	19.83	0.096	33.01	-13.18
5 MHz	QPSK	1852.5	1.50	1 / 0	22.53	24.03	0.253	33.01	-8.98
		1880.0	1.50	1 / 12	22.70	24.20	0.263	33.01	-8.81
		1907.5	1.50	1 / 0	22.60	24.10	0.257	33.01	-8.91
	16-QAM	1880.0	1.50	1 / 12	22.19	23.69	0.234	33.01	-9.32
	64-QAM	1880.0	1.50	1 / 12	21.39	22.89	0.195	33.01	-10.12
	256-QAM	1880.0	1.50	1 / 12	18.35	19.85	0.097	33.01	-13.16
10 MHz	QPSK	1855.0	1.50	1 / 0	22.70	24.20	0.263	33.01	-8.81
		1880.0	1.50	1 / 25	22.53	24.03	0.253	33.01	-8.98
		1905.0	1.50	1 / 0	22.59	24.09	0.256	33.01	-8.92
	16-QAM	1905.0	1.50	1 / 0	22.17	23.67	0.233	33.01	-9.34
	64-QAM	1905.0	1.50	1 / 25	21.55	23.05	0.202	33.01	-9.96
	256-QAM	1905.0	1.50	1 / 25	18.24	19.74	0.094	33.01	-13.27
15 MHz	QPSK	1857.5	1.50	1 / 37	22.70	24.20	0.263	33.01	-8.81
		1880.0	1.50	1 / 37	22.60	24.10	0.257	33.01	-8.91
		1902.5	1.50	1 / 37	22.63	24.13	0.259	33.01	-8.88
	16-QAM	1880.0	1.50	1 / 37	22.29	23.79	0.239	33.01	-9.22
	64-QAM	1880.0	1.50	1 / 37	21.37	22.87	0.194	33.01	-10.14
	256-QAM	1880.0	1.50	1 / 37	18.18	19.68	0.093	33.01	-13.33
20 MHz	QPSK	1860.0	1.50	1 / 0	22.70	24.20	0.263	33.01	-8.81
		1880.0	1.50	1 / 99	22.70	24.20	0.263	33.01	-8.81
		1900.0	1.50	1 / 0	22.41	23.91	0.246	33.01	-9.10
	16-QAM	1900.0	1.50	1 / 50	22.10	23.60	0.229	33.01	-9.41
	64-QAM	1860.0	1.50	1 / 50	21.24	22.74	0.188	33.01	-10.27
	256-QAM	1900.0	1.50	1 / 50	17.90	19.40	0.087	33.01	-13.61

Table 7-8. Antenna 1 EIRP Data (LTE Band 2)

FCC ID: BCGA2435	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n25

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	1852.5	1.50	1 / 23	22.07	23.57	0.228	33.01	-9.44
		1882.5	1.50	1 / 12	22.00	23.50	0.224	33.01	-9.51
		1912.5	1.50	1 / 23	22.33	23.83	0.241	33.01	-9.18
	QPSK	1852.5	1.50	1 / 0	21.87	23.37	0.217	33.01	-9.64
		1882.5	1.50	1 / 23	22.39	23.89	0.245	33.01	-9.12
		1912.5	1.50	1 / 0	21.83	23.33	0.215	33.01	-9.68
	16-QAM	1882.5	1.50	1 / 0	21.52	23.02	0.200	33.01	-9.99
	64-QAM	1912.5	1.50	1 / 23	19.94	21.44	0.139	33.01	-11.57
10 MHz	$\pi/2$ BPSK	1882.5	1.50	1 / 23	17.61	19.11	0.081	33.01	-13.90
		1855.0	1.50	1 / 0	22.56	24.06	0.255	33.01	-8.95
		1882.5	1.50	1 / 48	22.50	24.00	0.251	33.01	-9.01
	QPSK	1910.0	1.50	1 / 0	22.47	23.97	0.249	33.01	-9.04
		1855.0	1.50	1 / 0	22.47	23.97	0.249	33.01	-9.04
		1882.5	1.50	1 / 25	22.33	23.83	0.242	33.01	-9.18
	16-QAM	1910.0	1.50	1 / 0	22.45	23.95	0.248	33.01	-9.06
	64-QAM	1882.5	1.50	1 / 25	21.30	22.80	0.190	33.01	-10.21
15 MHz	$\pi/2$ BPSK	1910.0	1.50	1 / 48	19.68	21.18	0.131	33.01	-11.83
		1855.0	1.50	1 / 0	17.58	19.08	0.081	33.01	-13.93
		1882.5	1.50	1 / 37	22.05	23.55	0.226	33.01	-9.46
	QPSK	1857.5	1.50	1 / 73	22.37	23.87	0.244	33.01	-9.14
		1907.5	1.50	1 / 0	22.29	23.79	0.239	33.01	-9.22
		1857.5	1.50	1 / 73	22.21	23.71	0.235	33.01	-9.30
	16-QAM	1907.5	1.50	1 / 73	22.09	23.59	0.228	33.01	-9.42
	64-QAM	1882.5	1.50	1 / 73	21.35	22.85	0.193	33.01	-10.16
20 MHz	$\pi/2$ BPSK	1857.5	1.50	1 / 0	19.98	21.48	0.141	33.01	-11.53
		1907.5	1.50	1 / 0	17.70	19.20	0.083	33.01	-13.81
		1860.0	1.50	1 / 50	22.15	23.65	0.232	33.01	-9.36
	QPSK	1882.5	1.50	1 / 50	22.06	23.56	0.227	33.01	-9.45
		1905.0	1.50	1 / 98	22.23	23.73	0.236	33.01	-9.28
		1860.0	1.50	1 / 50	22.10	23.60	0.229	33.01	-9.41
	16-QAM	1882.5	1.50	1 / 0	22.33	23.83	0.242	33.01	-9.18
	64-QAM	1905.0	1.50	1 / 0	22.20	23.70	0.235	33.01	-9.31
25 MHz	$\pi/2$ BPSK	1860.0	1.50	1 / 50	19.67	21.17	0.131	33.01	-11.84
		1905.0	1.50	1 / 98	17.95	19.45	0.088	33.01	-13.56
		1862.5	1.50	1 / 80	21.86	23.36	0.217	33.01	-9.65
	QPSK	1882.5	1.50	1 / 0	22.22	23.72	0.236	33.01	-9.29
		1902.5	1.50	1 / 66	22.05	23.55	0.226	33.01	-9.46
		1862.5	1.50	1 / 131	22.33	23.83	0.242	33.01	-9.18
	16-QAM	1902.5	1.50	1 / 0	22.08	23.58	0.228	33.01	-9.43
	64-QAM	1882.5	1.50	1 / 131	21.87	23.37	0.217	33.01	-9.64
30 MHz	$\pi/2$ BPSK	1902.5	1.50	1 / 66	22.27	23.77	0.238	33.01	-9.24
		1882.5	1.50	1 / 0	21.68	23.18	0.208	33.01	-9.83
		1862.5	1.50	1 / 0	20.04	21.54	0.143	33.01	-11.47
	QPSK	1862.5	1.50	1 / 0	17.67	19.17	0.083	33.01	-13.84
		1865.0	1.50	1 / 80	21.86	23.36	0.217	33.01	-9.65
		1882.5	1.50	1 / 0	22.06	23.56	0.227	33.01	-9.45
	16-QAM	1900.0	1.50	1 / 0	22.27	23.77	0.238	33.01	-9.24
	64-QAM	1865.0	1.50	1 / 80	21.97	23.47	0.223	33.01	-9.54
40 MHz	$\pi/2$ BPSK	1882.5	1.50	1 / 158	22.34	23.84	0.242	33.01	-9.17
		1900.0	1.50	1 / 0	21.95	23.45	0.222	33.01	-9.56
		1882.5	1.50	1 / 158	21.43	22.93	0.196	33.01	-10.08
	QPSK	1900.0	1.50	1 / 80	19.75	21.25	0.133	33.01	-11.76
		1865.0	1.50	1 / 0	17.95	19.45	0.088	33.01	-13.56
		1870.0	1.50	1 / 214	22.03	23.53	0.225	33.01	-9.48
	16-QAM	1882.5	1.50	1 / 214	22.04	23.54	0.226	33.01	-9.47
	64-QAM	1895.0	1.50	1 / 108	22.20	23.70	0.235	33.01	-9.31
40 MHz	$\pi/2$ BPSK	1870.0	1.50	1 / 108	22.16	23.66	0.232	33.01	-9.35
		1882.5	1.50	1 / 214	22.33	23.83	0.241	33.01	-9.18
		1895.0	1.50	1 / 214	22.15	23.65	0.232	33.01	-9.36
	QPSK	1882.5	1.50	1 / 0	21.43	22.93	0.196	33.01	-10.08
		1882.5	1.50	1 / 214	19.88	21.38	0.137	33.01	-11.63
		1895.0	1.50	1 / 214	17.69	19.19	0.083	33.01	-13.82
	16-QAM	1882.5	1.50	1 / 214	19.88	21.38	0.137	33.01	-11.63
	64-QAM	1895.0	1.50	1 / 214	17.69	19.19	0.083	33.01	-13.82

Table 7-9. Antenna 1 EIRP Data (NR Band n25)

FCC ID: BCGA2435		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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NR Band n2

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	1852.5	1.50	1 / 12	21.93	23.43	0.221	33.01	-9.58
		1880.0	1.50	1 / 23	22.13	23.63	0.231	33.01	-9.38
		1907.5	1.50	1 / 12	22.30	23.80	0.240	33.01	-9.21
	QPSK	1852.5	1.50	1 / 0	22.05	23.55	0.227	33.01	-9.46
		1880.0	1.50	1 / 0	22.07	23.57	0.228	33.01	-9.44
		1907.5	1.50	1 / 0	22.07	23.57	0.228	33.01	-9.44
	16-QAM	1880.0	1.50	1 / 12	21.39	22.89	0.195	33.01	-10.12
	64-QAM	1880.0	1.50	1 / 0	19.81	21.31	0.135	33.01	-11.70
	256-QAM	1907.5	1.50	1 / 23	17.81	19.31	0.085	33.01	-13.70
10 MHz	$\pi/2$ BPSK	1855.0	1.50	1 / 25	22.09	23.59	0.228	33.01	-9.42
		1880.0	1.50	1 / 0	22.42	23.92	0.247	33.01	-9.09
		1905.0	1.50	1 / 25	22.19	23.69	0.234	33.01	-9.32
	QPSK	1855.0	1.50	1 / 25	22.23	23.73	0.236	33.01	-9.28
		1880.0	1.50	1 / 0	21.91	23.41	0.219	33.01	-9.60
		1905.0	1.50	1 / 25	22.12	23.62	0.230	33.01	-9.39
	16-QAM	1905.0	1.50	1 / 48	21.47	22.97	0.198	33.01	-10.04
	64-QAM	1905.0	1.50	1 / 0	19.92	21.42	0.139	33.01	-11.59
	256-QAM	1905.0	1.50	1 / 25	17.81	19.31	0.085	33.01	-13.70
15 MHz	$\pi/2$ BPSK	1857.5	1.50	1 / 0	22.05	23.55	0.227	33.01	-9.46
		1880.0	1.50	1 / 73	22.45	23.95	0.249	33.01	-9.06
		1902.5	1.50	1 / 0	22.43	23.93	0.247	33.01	-9.08
	QPSK	1857.5	1.50	1 / 73	22.25	23.75	0.237	33.01	-9.26
		1880.0	1.50	1 / 0	22.35	23.85	0.243	33.01	-9.16
		1902.5	1.50	1 / 0	22.37	23.87	0.244	33.01	-9.14
	16-QAM	1880.0	1.50	1 / 37	21.78	23.28	0.213	33.01	-9.73
	64-QAM	1857.5	1.50	1 / 73	20.14	21.64	0.146	33.01	-11.37
	256-QAM	1902.5	1.50	1 / 0	17.86	19.36	0.086	33.01	-13.65
20 MHz	$\pi/2$ BPSK	1860.0	1.50	1 / 50	22.16	23.66	0.232	33.01	-9.35
		1880.0	1.50	1 / 0	22.17	23.67	0.233	33.01	-9.34
		1900.0	1.50	1 / 50	22.37	23.87	0.244	33.01	-9.14
	QPSK	1860.0	1.50	1 / 50	21.98	23.48	0.223	33.01	-9.53
		1880.0	1.50	1 / 0	22.14	23.64	0.231	33.01	-9.37
		1900.0	1.50	1 / 98	22.31	23.81	0.240	33.01	-9.20
	16-QAM	1860.0	1.50	1 / 0	21.77	23.27	0.212	33.01	-9.74
	64-QAM	1880.0	1.50	1 / 50	20.05	21.55	0.143	33.01	-11.46
	256-QAM	1880.0	1.50	1 / 0	17.76	19.26	0.084	33.01	-13.75

Table 7-10. Antenna 1 EIRP Data (NR Band n2)

FCC ID: BCGA2435	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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WCDMA PCS

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1852.40	WCDMA1900	22.59	1.50	24.09	0.256	33.01	-8.92
1880.00	WCDMA1900	22.58	1.50	24.08	0.256	33.01	-8.93
1907.60	WCDMA1900	22.62	1.50	24.12	0.258	33.01	-8.89

Table 7-11. Antenna 1 EIRP Data (WCDMA PCS)

FCC ID: BCGA2435	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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7.6.3 Antenna 3 – EIRP

LTE Band 25

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	1850.7	1.40	1 / 5	25.14	26.54	0.451	33.01	-6.47
		1882.5	1.40	1 / 0	25.00	26.40	0.437	33.01	-6.61
		1914.3	1.40	1 / 0	25.20	26.60	0.457	33.01	-6.41
	16-QAM	1914.3	1.40	1 / 0	24.25	25.65	0.367	33.01	-7.36
	64-QAM	1882.5	1.40	1 / 0	23.28	24.68	0.294	33.01	-8.33
	256-QAM	1914.3	1.40	1 / 3	20.23	21.63	0.146	33.01	-11.38
3 MHz	QPSK	1851.5	1.40	1 / 7	25.08	26.48	0.445	33.01	-6.53
		1882.5	1.40	1 / 7	24.89	26.29	0.426	33.01	-6.72
		1913.5	1.40	1 / 7	25.20	26.60	0.457	33.01	-6.41
	16-QAM	1913.5	1.40	1 / 7	24.29	25.69	0.371	33.01	-7.32
	64-QAM	1913.5	1.40	1 / 7	23.40	24.80	0.302	33.01	-8.21
	256-QAM	1913.5	1.40	1 / 7	20.44	21.84	0.153	33.01	-11.17
5 MHz	QPSK	1852.5	1.40	1 / 12	25.00	26.40	0.437	33.01	-6.61
		1882.5	1.40	1 / 12	24.93	26.33	0.430	33.01	-6.68
		1912.5	1.40	1 / 12	25.20	26.60	0.457	33.01	-6.41
	16-QAM	1912.5	1.40	1 / 12	24.23	25.63	0.366	33.01	-7.38
	64-QAM	1882.5	1.40	1 / 24	23.09	24.49	0.281	33.01	-8.52
	256-QAM	1882.5	1.40	1 / 0	20.19	21.59	0.144	33.01	-11.42
10 MHz	QPSK	1855.0	1.40	1 / 0	25.20	26.60	0.457	33.01	-6.41
		1882.5	1.40	1 / 49	25.06	26.46	0.443	33.01	-6.55
		1910.0	1.40	1 / 49	25.17	26.57	0.454	33.01	-6.44
	16-QAM	1910.0	1.40	1 / 25	24.56	25.96	0.394	33.01	-7.05
	64-QAM	1910.0	1.40	1 / 49	23.49	24.89	0.308	33.01	-8.12
	256-QAM	1882.5	1.40	1 / 25	20.78	22.18	0.165	33.01	-10.83
15 MHz	QPSK	1857.5	1.40	1 / 37	25.20	26.60	0.457	33.01	-6.41
		1882.5	1.40	1 / 37	25.15	26.55	0.452	33.01	-6.46
		1907.5	1.40	1 / 37	25.05	26.45	0.442	33.01	-6.56
	16-QAM	1907.5	1.40	1 / 37	24.66	26.06	0.404	33.01	-6.95
	64-QAM	1907.5	1.40	1 / 37	23.54	24.94	0.312	33.01	-8.07
	256-QAM	1857.5	1.40	1 / 37	20.41	21.81	0.152	33.01	-11.20
	QPSK	1860.0	1.40	1 / 50	25.14	26.54	0.451	33.01	-6.47
		1882.5	1.40	1 / 50	25.03	26.43	0.440	33.01	-6.58
		1905.0	1.40	1 / 99	25.20	26.60	0.457	33.01	-6.41
	16-QAM	1905.0	1.40	1 / 50	24.79	26.19	0.416	33.01	-6.82
	64-QAM	1882.5	1.40	1 / 50	23.57	24.97	0.314	33.01	-8.04
	256-QAM	1882.5	1.40	1 / 50	20.51	21.91	0.155	33.01	-11.10

Table 7-12. Antenna 3 EIRP Data (LTE Band 25)

FCC ID: BCGA2435	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 2

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	1850.7	1.40	1 / 0	25.12	26.52	0.449	33.01	-6.49
		1880.0	1.40	1 / 0	25.15	26.55	0.452	33.01	-6.46
		1909.3	1.40	1 / 0	25.20	26.60	0.457	33.01	-6.41
	16-QAM	1880.0	1.40	1 / 3	24.25	25.65	0.367	33.01	-7.36
	64-QAM	1909.3	1.40	1 / 3	23.55	24.95	0.313	33.01	-8.06
	256-QAM	1909.3	1.40	1 / 0	20.43	21.83	0.152	33.01	-11.18
3 MHz	QPSK	1851.5	1.40	1 / 7	25.20	26.60	0.457	33.01	-6.41
		1880.0	1.40	1 / 7	25.05	26.45	0.442	33.01	-6.56
		1908.5	1.40	1 / 7	25.03	26.43	0.440	33.01	-6.58
	16-QAM	1908.5	1.40	1 / 0	24.43	25.83	0.383	33.01	-7.18
	64-QAM	1851.5	1.40	1 / 7	23.24	24.64	0.291	33.01	-8.37
	256-QAM	1880.0	1.40	1 / 7	20.41	21.81	0.152	33.01	-11.20
5 MHz	QPSK	1852.5	1.40	1 / 12	25.09	26.49	0.446	33.01	-6.52
		1880.0	1.40	1 / 0	24.99	26.39	0.436	33.01	-6.62
		1907.5	1.40	1 / 12	25.20	26.60	0.457	33.01	-6.41
	16-QAM	1907.5	1.40	1 / 12	24.27	25.67	0.369	33.01	-7.34
	64-QAM	1880.0	1.40	1 / 12	23.18	24.58	0.287	33.01	-8.43
	256-QAM	1907.5	1.40	1 / 12	20.23	21.63	0.146	33.01	-11.38
10 MHz	QPSK	1855.0	1.40	1 / 0	25.20	26.60	0.457	33.01	-6.41
		1880.0	1.40	1 / 0	25.00	26.40	0.437	33.01	-6.61
		1905.0	1.40	1 / 0	24.94	26.34	0.431	33.01	-6.67
	16-QAM	1905.0	1.40	1 / 0	24.37	25.77	0.378	33.01	-7.24
	64-QAM	1905.0	1.40	1 / 49	23.61	25.01	0.317	33.01	-8.00
	256-QAM	1880.0	1.40	1 / 25	20.44	21.84	0.153	33.01	-11.17
15 MHz	QPSK	1857.5	1.40	1 / 37	25.20	26.60	0.457	33.01	-6.41
		1880.0	1.40	1 / 37	25.08	26.48	0.445	33.01	-6.53
		1902.5	1.40	1 / 37	25.10	26.50	0.447	33.01	-6.51
	16-QAM	1902.5	1.40	1 / 37	24.56	25.96	0.394	33.01	-7.05
	64-QAM	1880.0	1.40	1 / 37	23.25	24.65	0.292	33.01	-8.36
	256-QAM	1857.5	1.40	1 / 37	20.49	21.89	0.155	33.01	-11.12
20 MHz	QPSK	1860.0	1.40	1 / 50	25.18	26.58	0.455	33.01	-6.43
		1880.0	1.40	1 / 50	25.10	26.50	0.447	33.01	-6.51
		1900.0	1.40	1 / 50	25.20	26.60	0.457	33.01	-6.41
	16-QAM	1900.0	1.40	1 / 50	24.67	26.07	0.405	33.01	-6.94
	64-QAM	1860.0	1.40	1 / 50	23.35	24.75	0.299	33.01	-8.26
	256-QAM	1900.0	1.40	1 / 50	20.41	21.81	0.152	33.01	-11.20

Table 7-13. Antenna 3 EIRP Data (LTE Band 2)

FCC ID: BCGA2435	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090025-02.BCG	Test Dates: 05/30/2022 - 9/6/2022	EUT Type: Tablet Device	Page 179 of 213

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NR Band n25

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	1852.5	1.40	1 / 12	25.12	26.52	0.449	33.01	-6.49
		1882.5	1.40	1 / 23	25.08	26.48	0.445	33.01	-6.53
		1912.5	1.40	1 / 0	25.06	26.46	0.443	33.01	-6.55
	QPSK	1852.5	1.40	1 / 12	25.08	26.48	0.445	33.01	-6.53
		1882.5	1.40	1 / 0	24.92	26.32	0.429	33.01	-6.69
		1912.5	1.40	1 / 0	25.15	26.55	0.452	33.01	-6.46
	16-QAM 64-QAM 256-QAM	1852.5	1.40	1 / 12	24.45	25.85	0.385	33.01	-7.16
		1882.5	1.40	1 / 23	22.91	24.31	0.270	33.01	-8.70
		1912.5	1.40	1 / 23	21.68	23.08	0.203	33.01	-9.93
10 MHz	π/2 BPSK	1855.0	1.40	1 / 0	25.06	26.46	0.443	33.01	-6.55
		1882.5	1.40	1 / 0	25.19	26.59	0.456	33.01	-6.42
		1910.0	1.40	1 / 48	25.02	26.42	0.439	33.01	-6.59
	QPSK	1855.0	1.40	1 / 0	25.04	26.44	0.441	33.01	-6.57
		1882.5	1.40	1 / 25	25.10	26.50	0.447	33.01	-6.51
		1910.0	1.40	1 / 25	25.17	26.57	0.454	33.01	-6.44
	16-QAM 64-QAM 256-QAM	1882.5	1.40	1 / 25	24.56	25.96	0.394	33.01	-7.05
		1910.0	1.40	1 / 25	23.08	24.48	0.281	33.01	-8.53
		1910.0	1.40	1 / 0	21.71	23.11	0.205	33.01	-9.90
15 MHz	π/2 BPSK	1857.5	1.40	1 / 0	25.20	26.60	0.457	33.01	-6.41
		1882.5	1.40	1 / 0	25.12	26.52	0.449	33.01	-6.49
		1907.5	1.40	1 / 0	25.10	26.50	0.447	33.01	-6.51
	QPSK	1857.5	1.40	1 / 0	25.12	26.52	0.449	33.01	-6.49
		1882.5	1.40	1 / 0	25.19	26.59	0.456	33.01	-6.42
		1907.5	1.40	1 / 37	25.00	26.40	0.437	33.01	-6.61
	16-QAM 64-QAM 256-QAM	1882.5	1.40	1 / 37	24.53	25.93	0.392	33.01	-7.08
		1907.5	1.40	1 / 37	23.25	24.65	0.292	33.01	-8.36
		1907.5	1.40	1 / 37	21.69	23.09	0.204	33.01	-9.92
20 MHz	π/2 BPSK	1860.0	1.40	1 / 50	25.20	26.60	0.457	33.01	-6.41
		1882.5	1.40	1 / 98	25.11	26.51	0.448	33.01	-6.50
		1905.0	1.40	1 / 98	25.15	26.55	0.452	33.01	-6.46
	QPSK	1860.0	1.40	1 / 98	25.15	26.55	0.452	33.01	-6.46
		1882.5	1.40	1 / 50	25.16	26.56	0.453	33.01	-6.45
		1905.0	1.40	1 / 98	25.03	26.43	0.440	33.01	-6.58
	16-QAM 64-QAM 256-QAM	1860.0	1.40	1 / 98	24.11	25.51	0.356	33.01	-7.50
		1905.0	1.40	1 / 98	23.05	24.45	0.279	33.01	-8.56
		1882.5	1.40	1 / 98	21.33	22.73	0.187	33.01	-10.28
25 MHz	π/2 BPSK	1862.5	1.40	1 / 66	25.11	26.51	0.448	33.01	-6.50
		1882.5	1.40	1 / 66	25.20	26.60	0.457	33.01	-6.41
		1902.5	1.40	1 / 66	25.17	26.57	0.454	33.01	-6.44
	QPSK	1862.5	1.40	1 / 0	25.14	26.54	0.451	33.01	-6.47
		1882.5	1.40	1 / 131	25.18	26.58	0.455	33.01	-6.43
		1902.5	1.40	1 / 131	25.12	26.52	0.449	33.01	-6.49
	16-QAM 64-QAM 256-QAM	1882.5	1.40	1 / 66	24.66	26.06	0.404	33.01	-6.95
		1882.5	1.40	1 / 66	24.02	25.42	0.348	33.01	-7.59
		1882.5	1.40	1 / 66	21.42	22.82	0.191	33.01	-10.19
30 MHz	π/2 BPSK	1865.0	1.40	1 / 158	25.04	26.44	0.441	33.01	-6.57
		1882.5	1.40	1 / 158	25.08	26.48	0.445	33.01	-6.53
		1900.0	1.40	1 / 80	25.10	26.50	0.447	33.01	-6.51
	QPSK	1865.0	1.40	1 / 0	25.10	26.50	0.447	33.01	-6.51
		1882.5	1.40	1 / 80	25.05	26.45	0.442	33.01	-6.56
		1900.0	1.40	1 / 80	25.09	26.49	0.446	33.01	-6.52
	16-QAM 64-QAM 256-QAM	1900.0	1.40	1 / 158	24.20	25.60	0.363	33.01	-7.41
		1882.5	1.40	1 / 158	23.16	24.56	0.286	33.01	-8.45
		1900.0	1.40	1 / 158	21.87	23.27	0.212	33.01	-9.74
40 MHz	π/2 BPSK	1870.0	1.40	1 / 108	25.18	26.58	0.455	33.01	-6.43
		1882.5	1.40	1 / 0	25.20	26.60	0.457	33.01	-6.41
		1895.0	1.40	1 / 0	25.11	26.51	0.448	33.01	-6.50
	QPSK	1870.0	1.40	1 / 108	25.19	26.59	0.456	33.01	-6.42
		1882.5	1.40	1 / 108	25.07	26.47	0.444	33.01	-6.54
		1895.0	1.40	1 / 0	25.00	26.40	0.437	33.01	-6.61
	16-QAM 64-QAM 256-QAM	1895.0	1.40	1 / 0	24.35	25.75	0.376	33.01	-7.26
		1882.5	1.40	1 / 214	23.90	25.30	0.339	33.01	-7.71
		1895.0	1.40	1 / 214	21.67	23.07	0.203	33.01	-9.94

Table 7-14.

Antenna 3 EIRP Data (NR Band n25)

FCC ID: BCGA2435	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n2

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	1850.7	1.40	1 / 0	25.12	26.52	0.449	33.01	-6.49
		1880.0	1.40	1 / 0	25.15	26.55	0.452	33.01	-6.46
		1909.3	1.40	1 / 0	25.20	26.60	0.457	33.01	-6.41
	16-QAM	1880.0	1.40	1 / 3	24.25	25.65	0.367	33.01	-7.36
	64-QAM	1909.3	1.40	1 / 3	23.55	24.95	0.313	33.01	-8.06
	256-QAM	1909.3	1.40	1 / 0	20.43	21.83	0.152	33.01	-11.18
3 MHz	QPSK	1851.5	1.40	1 / 7	25.20	26.60	0.457	33.01	-6.41
		1880.0	1.40	1 / 7	25.05	26.45	0.442	33.01	-6.56
		1908.5	1.40	1 / 7	25.03	26.43	0.440	33.01	-6.58
	16-QAM	1908.5	1.40	1 / 0	24.43	25.83	0.383	33.01	-7.18
	64-QAM	1851.5	1.40	1 / 7	23.24	24.64	0.291	33.01	-8.37
	256-QAM	1880.0	1.40	1 / 7	20.41	21.81	0.152	33.01	-11.20
5 MHz	QPSK	1852.5	1.40	1 / 12	25.09	26.49	0.446	33.01	-6.52
		1880.0	1.40	1 / 0	24.99	26.39	0.436	33.01	-6.62
		1907.5	1.40	1 / 12	25.20	26.60	0.457	33.01	-6.41
	16-QAM	1907.5	1.40	1 / 12	24.27	25.67	0.369	33.01	-7.34
	64-QAM	1880.0	1.40	1 / 12	23.18	24.58	0.287	33.01	-8.43
	256-QAM	1907.5	1.40	1 / 12	20.23	21.63	0.146	33.01	-11.38
10 MHz	QPSK	1855.0	1.40	1 / 0	25.20	26.60	0.457	33.01	-6.41
		1880.0	1.40	1 / 0	25.00	26.40	0.437	33.01	-6.61
		1905.0	1.40	1 / 0	24.94	26.34	0.431	33.01	-6.67
	16-QAM	1905.0	1.40	1 / 0	24.37	25.77	0.378	33.01	-7.24
	64-QAM	1905.0	1.40	1 / 49	23.61	25.01	0.317	33.01	-8.00
	256-QAM	1880.0	1.40	1 / 25	20.44	21.84	0.153	33.01	-11.17
15 MHz	QPSK	1857.5	1.40	1 / 37	25.20	26.60	0.457	33.01	-6.41
		1880.0	1.40	1 / 37	25.08	26.48	0.445	33.01	-6.53
		1902.5	1.40	1 / 37	25.10	26.50	0.447	33.01	-6.51
	16-QAM	1902.5	1.40	1 / 37	24.56	25.96	0.394	33.01	-7.05
	64-QAM	1880.0	1.40	1 / 37	23.25	24.65	0.292	33.01	-8.36
	256-QAM	1857.5	1.40	1 / 37	20.49	21.89	0.155	33.01	-11.12
20 MHz	QPSK	1860.0	1.40	1 / 50	25.18	26.58	0.455	33.01	-6.43
		1880.0	1.40	1 / 50	25.10	26.50	0.447	33.01	-6.51
		1900.0	1.40	1 / 50	25.20	26.60	0.457	33.01	-6.41
	16-QAM	1900.0	1.40	1 / 50	24.67	26.07	0.405	33.01	-6.94
	64-QAM	1860.0	1.40	1 / 50	23.35	24.75	0.299	33.01	-8.26
	256-QAM	1900.0	1.40	1 / 50	20.41	21.81	0.152	33.01	-11.20

Table 7-15. Antenna 3 EIRP Data (NR Band n2)

FCC ID: BCGA2435	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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WCDMA PCS

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1852.40	WCDMA1900	25.09	1.40	26.49	0.446	33.01	-6.52
1880.00	WCDMA1900	25.20	1.40	26.60	0.457	33.01	-6.41
1907.60	WCDMA1900	25.13	1.40	26.53	0.450	33.01	-6.48

Table 7-16. Antenna 3 EIRP Data (WCDMA PCS)

FCC ID: BCGA2435	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090025-02.BCG	Test Dates: 05/30/2022 - 9/6/2022	EUT Type: Tablet Device	Page 182 of 213

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7.6.4 Antenna 2b – EIRP

LTE Band 25

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	1850.7	-4.00	1 / 3	22.34	18.34	0.068	33.01	-14.67
		1882.5	-4.00	1 / 5	22.56	18.56	0.072	33.01	-14.45
		1914.3	-4.00	1 / 0	22.70	18.70	0.074	33.01	-14.31
	16-QAM	1914.3	-4.00	1 / 3	21.72	17.72	0.059	33.01	-15.29
	64-QAM	1914.3	-4.00	1 / 3	20.81	16.81	0.048	33.01	-16.20
	256-QAM	1914.3	-4.00	1 / 3	17.85	13.85	0.024	33.01	-19.16
3 MHz	QPSK	1851.5	-4.00	1 / 7	22.53	18.53	0.071	33.01	-14.48
		1882.5	-4.00	1 / 7	22.70	18.70	0.074	33.01	-14.31
		1913.5	-4.00	1 / 7	22.66	18.66	0.073	33.01	-14.35
	16-QAM	1913.5	-4.00	1 / 7	22.12	18.12	0.065	33.01	-14.89
	64-QAM	1913.5	-4.00	1 / 7	21.37	17.37	0.055	33.01	-15.64
	256-QAM	1882.5	-4.00	1 / 7	18.19	14.19	0.026	33.01	-18.82
5 MHz	QPSK	1852.5	-4.00	1 / 0	22.30	18.30	0.068	33.01	-14.71
		1882.5	-4.00	1 / 0	22.70	18.70	0.074	33.01	-14.31
		1912.5	-4.00	1 / 0	22.70	18.70	0.074	33.01	-14.31
	16-QAM	1912.5	-4.00	1 / 0	21.83	17.83	0.061	33.01	-15.18
	64-QAM	1882.5	-4.00	1 / 12	20.80	16.80	0.048	33.01	-16.21
	256-QAM	1912.5	-4.00	1 / 0	18.34	14.34	0.027	33.01	-18.67
10 MHz	QPSK	1855.0	-4.00	1 / 0	22.47	18.47	0.070	33.01	-14.54
		1882.5	-4.00	1 / 49	22.67	18.67	0.074	33.01	-14.34
		1910.0	-4.00	1 / 0	22.70	18.70	0.074	33.01	-14.31
	16-QAM	1910.0	-4.00	1 / 25	22.00	18.00	0.063	33.01	-15.01
	64-QAM	1882.5	-4.00	1 / 25	21.40	17.40	0.055	33.01	-15.61
	256-QAM	1910.0	-4.00	1 / 49	18.11	14.11	0.026	33.01	-18.90
15 MHz	QPSK	1857.5	-4.00	1 / 37	22.46	18.46	0.070	33.01	-14.55
		1882.5	-4.00	1 / 37	22.70	18.70	0.074	33.01	-14.31
		1907.5	-4.00	1 / 37	22.54	18.54	0.071	33.01	-14.47
	16-QAM	1907.5	-4.00	1 / 37	21.99	17.99	0.063	33.01	-15.02
	64-QAM	1907.5	-4.00	1 / 37	21.21	17.21	0.053	33.01	-15.80
	256-QAM	1882.5	-4.00	1 / 37	18.02	14.02	0.025	33.01	-18.99
	QPSK	1860.0	-4.00	1 / 99	22.51	18.51	0.071	33.01	-14.50
		1882.5	-4.00	1 / 50	22.58	18.58	0.072	33.01	-14.43
		1905.0	-4.00	1 / 0	22.70	18.70	0.074	33.01	-14.31
	16-QAM	1905.0	-4.00	1 / 50	22.06	18.06	0.064	33.01	-14.95
	64-QAM	1905.0	-4.00	1 / 50	21.24	17.24	0.053	33.01	-15.77
	256-QAM	1882.5	-4.00	1 / 50	18.05	14.05	0.025	33.01	-18.96

Table 7-17. Antenna 2b EIRP Data (LTE Band 25)

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LTE Band 2

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	1850.7	-4.00	1 / 0	22.57	18.57	0.072	33.01	-14.44
		1880.0	-4.00	1 / 0	22.62	18.62	0.073	33.01	-14.39
		1909.3	-4.00	1 / 0	22.70	18.70	0.074	33.01	-14.31
	16-QAM	1880.0	-4.00	1 / 3	21.86	17.86	0.061	33.01	-15.15
	64-QAM	1909.3	-4.00	1 / 3	20.84	16.84	0.048	33.01	-16.17
	256-QAM	1909.3	-4.00	1 / 0	17.87	13.87	0.024	33.01	-19.14
3 MHz	QPSK	1851.5	-4.00	1 / 7	22.63	18.63	0.073	33.01	-14.38
		1880.0	-4.00	1 / 0	22.70	18.70	0.074	33.01	-14.31
		1908.5	-4.00	1 / 7	22.69	18.69	0.074	33.01	-14.32
	16-QAM	1908.5	-4.00	1 / 7	22.17	18.17	0.066	33.01	-14.84
	64-QAM	1880.0	-4.00	1 / 0	21.06	17.06	0.051	33.01	-15.95
	256-QAM	1908.5	-4.00	1 / 0	18.14	14.14	0.026	33.01	-18.87
5 MHz	QPSK	1852.5	-4.00	1 / 12	22.55	18.55	0.072	33.01	-14.46
		1880.0	-4.00	1 / 12	22.68	18.68	0.074	33.01	-14.33
		1907.5	-4.00	1 / 0	22.70	18.70	0.074	33.01	-14.31
	16-QAM	1880.0	-4.00	1 / 12	21.85	17.85	0.061	33.01	-15.16
	64-QAM	1907.5	-4.00	1 / 12	20.91	16.91	0.049	33.01	-16.10
	256-QAM	1880.0	-4.00	1 / 12	17.84	13.84	0.024	33.01	-19.17
10 MHz	QPSK	1855.0	-4.00	1 / 0	22.57	18.57	0.072	33.01	-14.44
		1880.0	-4.00	1 / 0	22.70	18.70	0.074	33.01	-14.31
		1905.0	-4.00	1 / 0	22.54	18.54	0.071	33.01	-14.47
	16-QAM	1905.0	-4.00	1 / 0	22.01	18.01	0.063	33.01	-15.00
	64-QAM	1905.0	-4.00	1 / 25	21.14	17.14	0.052	33.01	-15.87
	256-QAM	1905.0	-4.00	1 / 25	18.09	14.09	0.026	33.01	-18.92
15 MHz	QPSK	1857.5	-4.00	1 / 37	22.53	18.53	0.071	33.01	-14.48
		1880.0	-4.00	1 / 74	22.70	18.70	0.074	33.01	-14.31
		1902.5	-4.00	1 / 37	22.57	18.57	0.072	33.01	-14.44
	16-QAM	1902.5	-4.00	1 / 37	22.17	18.17	0.066	33.01	-14.84
	64-QAM	1880.0	-4.00	1 / 37	20.92	16.92	0.049	33.01	-16.09
	256-QAM	1880.0	-4.00	1 / 37	18.01	14.01	0.025	33.01	-19.00
20 MHz	QPSK	1860.0	-4.00	1 / 50	22.54	18.54	0.071	33.01	-14.47
		1880.0	-4.00	1 / 50	22.58	18.58	0.072	33.01	-14.43
		1900.0	-4.00	1 / 50	22.70	18.70	0.074	33.01	-14.31
	16-QAM	1900.0	-4.00	1 / 50	22.24	18.24	0.067	33.01	-14.77
	64-QAM	1900.0	-4.00	1 / 50	21.06	17.06	0.051	33.01	-15.95
	256-QAM	1900.0	-4.00	1 / 50	18.07	14.07	0.026	33.01	-18.94

Table 7-18. Antenna 2b EIRP Data (LTE Band 2)

FCC ID: BCGA2435	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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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	1852.5	-4.00	1 / 12	22.15	18.15	0.065	33.01	-14.86
		1882.5	-4.00	1 / 23	22.17	18.17	0.066	33.01	-14.84
		1912.5	-4.00	1 / 12	22.21	18.21	0.066	33.01	-14.80
	QPSK	1852.5	-4.00	1 / 0	21.93	17.93	0.062	33.01	-15.08
		1882.5	-4.00	1 / 12	22.22	18.22	0.066	33.01	-14.79
		1912.5	-4.00	1 / 0	21.96	17.96	0.063	33.01	-15.05
	16-QAM	1882.5	-4.00	1 / 23	21.43	17.43	0.055	33.01	-15.58
	64-QAM	1882.5	-4.00	1 / 0	19.96	15.96	0.039	33.01	-17.05
	256-QAM	1882.5	-4.00	1 / 0	17.96	13.96	0.025	33.01	-19.05
10 MHz	$\pi/2$ BPSK	1855.0	-4.00	1 / 25	22.11	18.11	0.065	33.01	-14.90
		1882.5	-4.00	1 / 48	22.33	18.33	0.068	33.01	-14.68
		1910.0	-4.00	1 / 0	22.49	18.49	0.071	33.01	-14.52
	QPSK	1855.0	-4.00	1 / 25	21.77	17.77	0.060	33.01	-15.24
		1882.5	-4.00	1 / 25	22.23	18.23	0.067	33.01	-14.78
		1910.0	-4.00	1 / 25	22.25	18.25	0.067	33.01	-14.76
	16-QAM	1910.0	-4.00	1 / 48	21.74	17.74	0.059	33.01	-15.27
	64-QAM	1910.0	-4.00	1 / 25	19.79	15.79	0.038	33.01	-17.22
	256-QAM	1910.0	-4.00	1 / 48	17.77	13.77	0.024	33.01	-19.24
15 MHz	$\pi/2$ BPSK	1857.5	-4.00	1 / 0	22.19	18.19	0.066	33.01	-14.82
		1882.5	-4.00	1 / 37	22.70	18.70	0.074	33.01	-14.31
		1907.5	-4.00	1 / 37	22.63	18.63	0.073	33.01	-14.38
	QPSK	1857.5	-4.00	1 / 37	21.85	17.85	0.061	33.01	-15.16
		1882.5	-4.00	1 / 73	22.24	18.24	0.067	33.01	-14.77
		1907.5	-4.00	1 / 37	22.20	18.20	0.066	33.01	-14.81
	16-QAM	1857.5	-4.00	1 / 37	22.02	18.02	0.063	33.01	-14.99
	64-QAM	1882.5	-4.00	1 / 37	20.01	16.01	0.040	33.01	-17.00
	256-QAM	1907.5	-4.00	1 / 37	17.96	13.96	0.025	33.01	-19.05
20 MHz	$\pi/2$ BPSK	1860.0	-4.00	1 / 50	22.21	18.21	0.066	33.01	-14.80
		1882.5	-4.00	1 / 50	22.24	18.24	0.067	33.01	-14.77
		1905.0	-4.00	1 / 50	22.20	18.20	0.066	33.01	-14.81
	QPSK	1860.0	-4.00	1 / 98	22.35	18.35	0.068	33.01	-14.66
		1882.5	-4.00	1 / 98	22.30	18.30	0.068	33.01	-14.71
		1905.0	-4.00	1 / 50	22.37	18.37	0.069	33.01	-14.64
	16-QAM	1882.5	-4.00	1 / 0	21.56	17.56	0.057	33.01	-15.45
	64-QAM	1860.0	-4.00	1 / 50	20.05	16.05	0.040	33.01	-16.96
	256-QAM	1905.0	-4.00	1 / 50	18.20	14.20	0.026	33.01	-18.81
25 MHz	$\pi/2$ BPSK	1862.5	-4.00	1 / 131	22.20	18.20	0.066	33.01	-14.81
		1882.5	-4.00	1 / 66	22.35	18.35	0.068	33.01	-14.66
		1902.5	-4.00	1 / 66	22.10	18.10	0.065	33.01	-14.91
	QPSK	1862.5	-4.00	1 / 131	22.26	18.26	0.067	33.01	-14.75
		1882.5	-4.00	1 / 66	22.28	18.28	0.067	33.01	-14.73
		1902.5	-4.00	1 / 66	22.26	18.26	0.067	33.01	-14.75
	16-QAM	1882.5	-4.00	1 / 131	21.64	17.64	0.058	33.01	-15.37
	64-QAM	1882.5	-4.00	1 / 131	20.48	16.48	0.045	33.01	-16.53
	256-QAM	1902.5	-4.00	1 / 0	17.97	13.97	0.025	33.01	-19.04
30 MHz	$\pi/2$ BPSK	1865.0	-4.00	1 / 0	22.19	18.19	0.066	33.01	-14.82
		1882.5	-4.00	1 / 80	22.27	18.27	0.067	33.01	-14.74
		1900.0	-4.00	1 / 158	22.57	18.57	0.072	33.01	-14.44
	QPSK	1865.0	-4.00	1 / 158	22.27	18.27	0.067	33.01	-14.74
		1882.5	-4.00	1 / 158	22.12	18.12	0.065	33.01	-14.89
		1900.0	-4.00	1 / 80	22.55	18.55	0.072	33.01	-14.46
	16-QAM	1900.0	-4.00	1 / 158	21.86	17.86	0.061	33.01	-15.15
	64-QAM	1882.5	-4.00	1 / 0	20.46	16.46	0.044	33.01	-16.55
	256-QAM	1900.0	-4.00	1 / 0	18.31	14.31	0.027	33.01	-18.70
40 MHz	$\pi/2$ BPSK	1870.0	-4.00	1 / 214	22.35	18.35	0.068	33.01	-14.66
		1882.5	-4.00	1 / 214	22.52	18.52	0.071	33.01	-14.49
		1895.0	-4.00	1 / 214	22.38	18.38	0.069	33.01	-14.63
	QPSK	1870.0	-4.00	1 / 214	22.40	18.40	0.069	33.01	-14.61
		1882.5	-4.00	1 / 214	22.34	18.34	0.068	33.01	-14.67
		1895.0	-4.00	1 / 214	22.02	18.02	0.063	33.01	-14.99
	16-QAM	1882.5	-4.00	1 / 108	21.75	17.75	0.060	33.01	-15.26
	64-QAM	1895.0	-4.00	1 / 108	20.37	16.37	0.043	33.01	-16.64
	256-QAM	1882.5	-4.00	1 / 214	17.88	13.88	0.024	33.01	-19.13

Table 7-19. Antenna 2b EIRP Data (NR Band n25)

FCC ID: BCGA2435	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n2

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	1852.5	-4.00	1 / 12	21.84	17.84	0.061	33.01	-15.17
		1880.0	-4.00	1 / 23	22.15	18.15	0.065	33.01	-14.86
		1907.5	-4.00	1 / 0	22.51	18.51	0.071	33.01	-14.50
	QPSK	1852.5	-4.00	1 / 0	22.03	18.03	0.064	33.01	-14.98
		1880.0	-4.00	1 / 23	22.09	18.09	0.064	33.01	-14.92
		1907.5	-4.00	1 / 23	22.52	18.52	0.071	33.01	-14.49
	16-QAM	1880.0	-4.00	1 / 12	21.69	17.69	0.059	33.01	-15.32
	64-QAM	1907.5	-4.00	1 / 12	19.98	15.98	0.040	33.01	-17.03
	256-QAM	1907.5	-4.00	1 / 0	17.82	13.82	0.024	33.01	-19.19
10 MHz	$\pi/2$ BPSK	1855.0	-4.00	1 / 48	21.89	17.89	0.062	33.01	-15.12
		1880.0	-4.00	1 / 0	22.18	18.18	0.066	33.01	-14.83
		1905.0	-4.00	1 / 0	22.20	18.20	0.066	33.01	-14.81
	QPSK	1855.0	-4.00	1 / 0	22.09	18.09	0.064	33.01	-14.92
		1880.0	-4.00	1 / 0	22.34	18.34	0.068	33.01	-14.67
		1905.0	-4.00	1 / 25	22.34	18.34	0.068	33.01	-14.67
	16-QAM	1905.0	-4.00	1 / 25	21.89	17.89	0.061	33.01	-15.12
	64-QAM	1880.0	-4.00	1 / 25	19.75	15.75	0.038	33.01	-17.26
	256-QAM	1905.0	-4.00	1 / 48	17.87	13.87	0.024	33.01	-19.14
15 MHz	$\pi/2$ BPSK	1857.5	-4.00	1 / 0	22.32	18.32	0.068	33.01	-14.69
		1880.0	-4.00	1 / 0	22.46	18.46	0.070	33.01	-14.55
		1902.5	-4.00	1 / 0	22.32	18.32	0.068	33.01	-14.69
	QPSK	1857.5	-4.00	1 / 0	22.22	18.22	0.066	33.01	-14.79
		1880.0	-4.00	1 / 37	22.12	18.12	0.065	33.01	-14.89
		1902.5	-4.00	1 / 0	22.34	18.34	0.068	33.01	-14.67
	16-QAM	1857.5	-4.00	1 / 0	21.80	17.80	0.060	33.01	-15.21
	64-QAM	1857.5	-4.00	1 / 37	20.08	16.08	0.041	33.01	-16.93
	256-QAM	1902.5	-4.00	1 / 37	18.11	14.11	0.026	33.01	-18.90
20 MHz	$\pi/2$ BPSK	1860.0	-4.00	1 / 98	22.70	18.70	0.074	33.01	-14.31
		1880.0	-4.00	1 / 98	22.37	18.37	0.069	33.01	-14.64
		1900.0	-4.00	1 / 0	22.52	18.52	0.071	33.01	-14.49
	QPSK	1860.0	-4.00	1 / 98	22.42	18.42	0.070	33.01	-14.59
		1880.0	-4.00	1 / 50	22.41	18.41	0.069	33.01	-14.60
		1900.0	-4.00	1 / 0	22.50	18.50	0.071	33.01	-14.51
	16-QAM	1880.0	-4.00	1 / 0	21.56	17.56	0.057	33.01	-15.45
	64-QAM	1860.0	-4.00	1 / 0	20.37	16.37	0.043	33.01	-16.64
	256-QAM	1900.0	-4.00	1 / 0	17.92	13.92	0.025	33.01	-19.09

Table 7-20. Antenna 2b EIRP Data (NR Band n2)

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WCDMA PCS

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1852.40	WCDMA1900	22.67	-4.00	18.67	0.074	33.01	-14.34
1880.00	WCDMA1900	22.56	-4.00	18.56	0.072	33.01	-14.45
1907.60	WCDMA1900	22.70	-4.00	18.70	0.074	33.01	-14.31

Table 7-21. Antenna 2b EIRP Data (WCDMA PCS)

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7.7 Radiated Spurious Emissions

§2.1053, 24.238(a)

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 tuned dipole antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as peak measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.8

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.

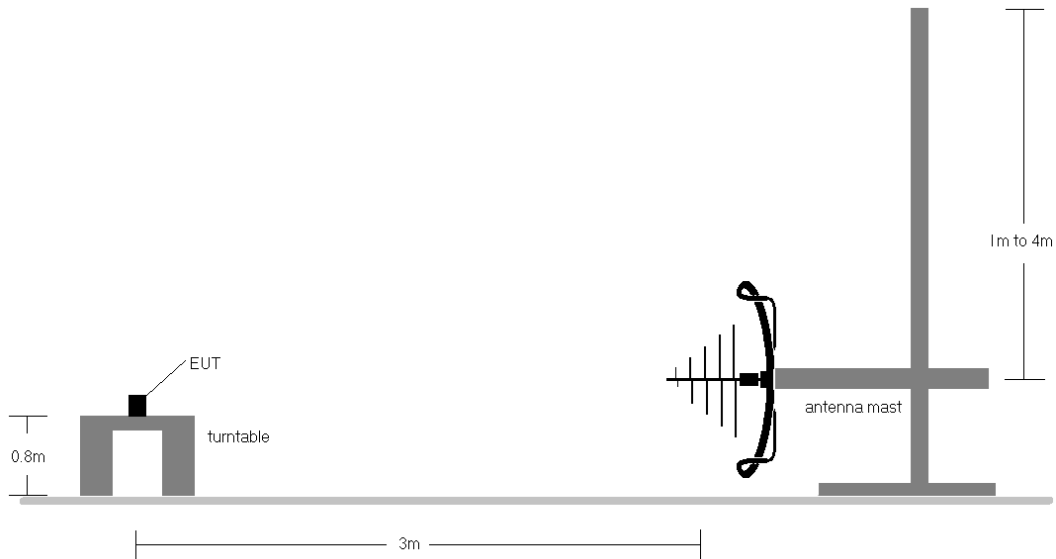


Figure 7-6. Test Instrument & Measurement Setup < 1GHz

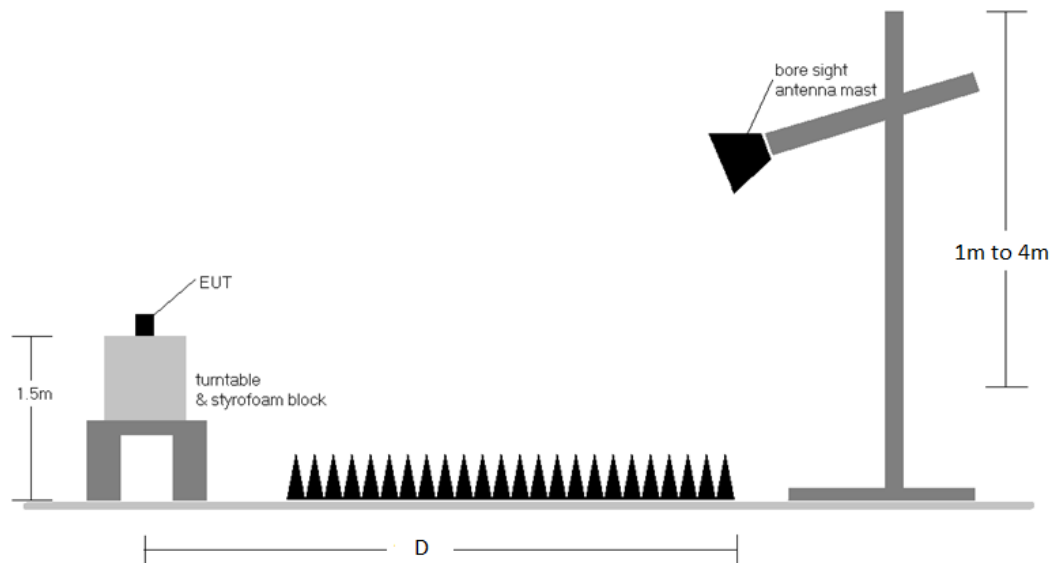


Figure 7-7. Test Instrument & Measurement Setup >1 GHz

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Test Notes

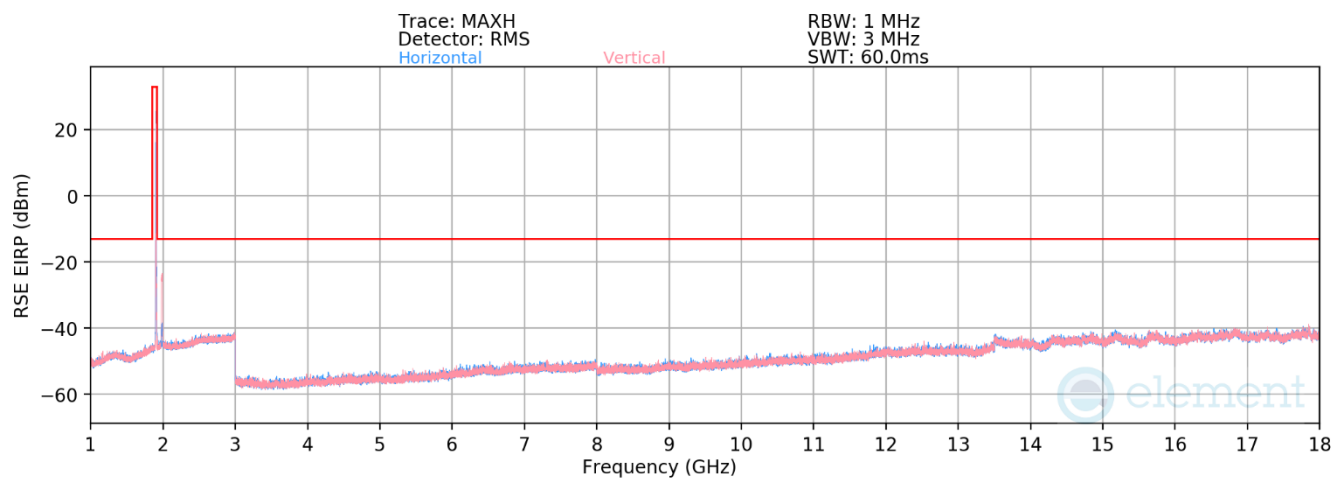
1. Field strengths are calculated using the Measurement quantity conversions in KDB 971168 Section 5.8.4.
 - a. $E(\text{dB}\mu\text{V}/\text{m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b. $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V}/\text{m}) + 20\log D - 104.8$; where D is the measurement distance in meters.
2. 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".
3. 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.
4. This unit was tested with its standard battery.
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. No significant emissions were found for below 1GHz and Above 18GHz measurement.
8. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
9. 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.
10. 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.
11. NR band n25 overlaps the entire frequency range of NR band 2. Therefore, the radiated emissions data of NR band n25 provided in this report covers NR band n2.

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7.7.1 Antenna 4b – Radiated Spurious Emission Measurement

LTE Band 25/2



Plot 7-288. Radiated Spurious Plot (LTE Band 25/2)

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Bandwidth (MHz):	20
Frequency (MHz):	1860.0
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]
3720.0	V	-	-	-79.18	5.47	33.29	-61.97	-13.00	-48.97
5580.0	V	-	-	-79.72	7.95	35.23	-60.03	-13.00	-47.03
7440.0	V	-	-	-80.32	10.78	37.46	-57.80	-13.00	-44.80

Table 7-22. Antenna 4b Radiated Spurious Data (LTE Band 25/2 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1882.5
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]
3765.0	V	-	-	-79.23	5.59	33.36	-61.90	-13.00	-48.90
5647.5	V	-	-	-79.82	8.02	35.20	-60.06	-13.00	-47.06
7530.0	V	-	-	-80.63	10.96	37.33	-57.93	-13.00	-44.93

Table 7-23. Antenna 4b Radiated Spurious Data (LTE Band 25/2 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1905.0
RB / Offset:	1 / 50

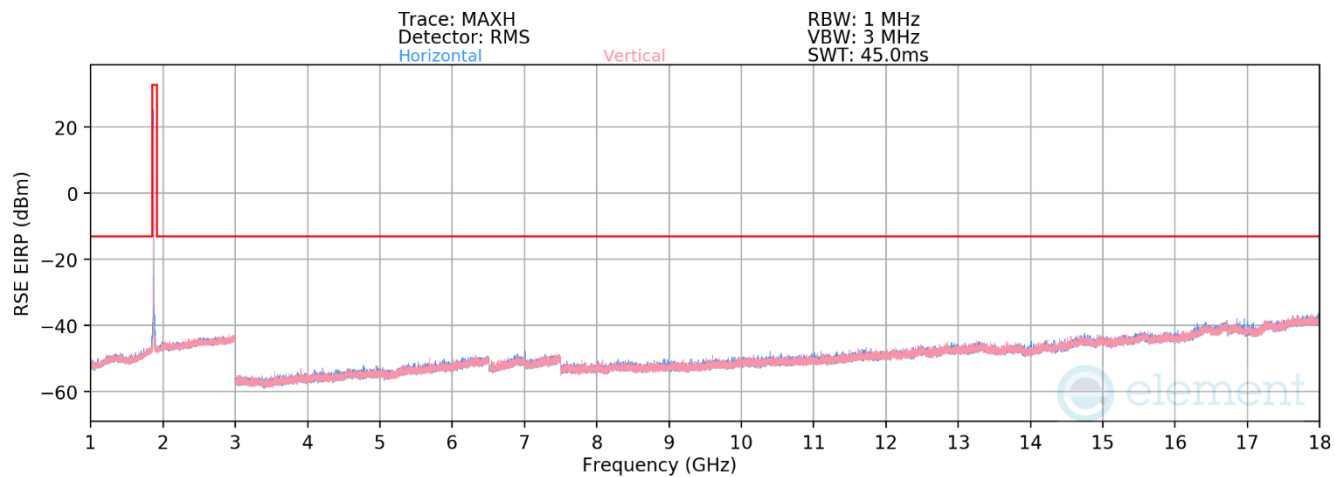
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3810.00	V	-	-	-79.39	5.90	33.51	-61.75	-13.00	-48.75
5715.00	V	-	-	-79.72	8.20	35.48	-59.78	-13.00	-46.78
7620.00	V	-	-	-80.50	11.08	37.58	-57.68	-13.00	-44.68

Table 7-24. Antenna 4b Radiated Spurious Data (LTE Band 25/2 – High Channel)

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NR Band n25/2



Plot 7-289. Radiated Spurious Plot (NR Band n25/2)

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Bandwidth (MHz):	40
Frequency (MHz):	1870.0
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]
3740.0	H	-	-	-79.14	5.95	33.81	-61.45	-13.00	-48.45
5610.0	V	-	-	-80.11	7.98	34.87	-60.39	-13.00	-47.39
7480.0	H	-	-	-80.46	10.93	37.47	-57.79	-13.00	-44.79

Table 7-25. Antenna 4b Radiated Spurious Data (NR Band n25/2 – Low Channel)

Bandwidth (MHz):	40
Frequency (MHz):	1882.5
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]
3765.0	H	-	-	-79.33	5.59	33.26	-62.00	-13.00	-49.00
5647.5	H	-	-	-80.22	8.02	34.80	-60.46	-13.00	-47.46
7530.0	H	-	-	-80.86	10.96	37.10	-58.16	-13.00	-45.16

Table 7-26. Antenna 4b Radiated Spurious Data (NR Band n25/2 – Mid Channel)

Bandwidth (MHz):	40
Frequency (MHz):	1895.0
RB / Offset:	1 / 108

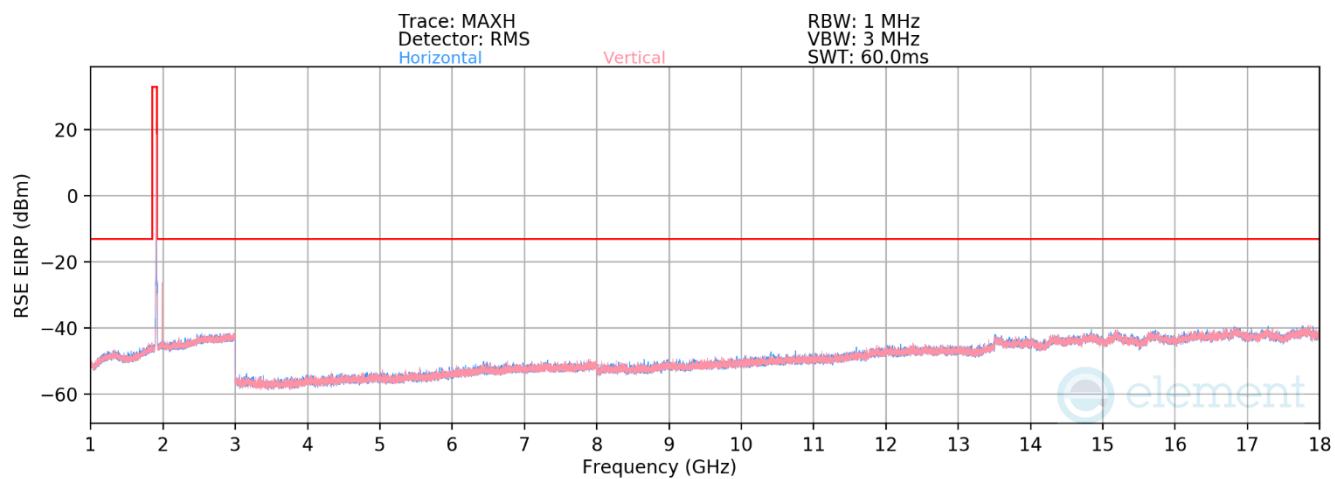
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3790.0	H	-	-	-79.49	5.56	33.07	-62.19	-13.00	-49.19
5685.0	H	-	-	-80.13	8.22	35.09	-60.17	-13.00	-47.17
7580.0	H	-	-	-80.54	10.91	37.37	-57.88	-13.00	-44.88

Table 7-27. Antenna 4b Radiated Spurious Data (NR Band n25/2 – High Channel)

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WCDMA PCS



Plot 7-290. Radiated Spurious Plot (WCDMA PCS)

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Mode:	WCDMA RMC
Channel:	9262
Frequency (MHz):	1852.4

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]
3704.8	H	-	-	-80.12	5.09	31.97	-63.29	-13.00	-50.29
5557.2	H	-	-	-81.44	8.15	33.71	-61.55	-13.00	-48.55
7409.6	H	-	-	-81.30	10.67	36.37	-58.89	-13.00	-45.89

Table 7-28. Antenna 4b Radiated Spurious Data (WCDMA PCS – Low Channel)

Mode:	WCDMA RMC
Channel:	9400
Frequency (MHz):	1880

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]
3760.0	H	-	-	-80.25	5.57	32.32	-62.94	-13.00	-49.94
5640.0	H	-	-	-80.29	8.00	34.71	-60.55	-13.00	-47.55
7520.0	H	-	-	-81.38	10.88	36.50	-58.76	-13.00	-45.76

Table 7-29. Antenna 4b Radiated Spurious Data (WCDMA PCS – Mid Channel)

Mode:	WCDMA RMC
Channel:	9538
Frequency (MHz):	1907.6

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]
3815.2	H	-	-	-80.03	5.75	32.72	-62.54	-13.00	-49.54
5722.8	H	-	-	-80.31	8.29	34.98	-60.28	-13.00	-47.28
7630.4	H	-	-	-81.29	11.26	36.97	-58.29	-13.00	-45.29

Table 7-30. Antenna 4b Radiated Spurious Data (WCDMA PCS – High Channel)

FCC ID: BCGA2435	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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7.7.2 Antenna 1 – Radiated Spurious Emission Measurement

LTE Band 25/2

Bandwidth (MHz):	20
Frequency (MHz):	1860.0
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]
3720.0	V	-	-	-79.19	5.47	33.28	-61.98	-13.00	-48.98
5580.0	V	-	-	-79.62	7.95	35.33	-59.93	-13.00	-46.93
7440.0	V	-	-	-80.40	10.78	37.38	-57.88	-13.00	-44.88

Table 7-31. Antenna 1 Radiated Spurious Data (LTE Band 25/2 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1882.5
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]
3765.0	V	-	-	-79.17	5.59	33.42	-61.84	-13.00	-48.84
5647.5	V	-	-	-79.75	8.02	35.27	-59.99	-13.00	-46.99
7530.0	V	-	-	-80.70	10.96	37.26	-58.00	-13.00	-45.00

Table 7-32. Antenna 1 Radiated Spurious Data (LTE Band 25/2 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1905.0
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]
3810.00	V	-	-	-79.25	5.90	33.65	-61.61	-13.00	-48.61
5715.00	V	-	-	-79.82	8.20	35.38	-59.88	-13.00	-46.88
7620.00	V	-	-	-80.59	11.08	37.49	-57.77	-13.00	-44.77

Table 7-33. Antenna 1 Radiated Spurious Data (LTE Band 25/2 – High Channel)

FCC ID: BCGA2435	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n25/2

Bandwidth (MHz):	40
Frequency (MHz):	1870.0
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]
3740.0	H	-	-	-75.69	3.02	34.33	-60.93	-13.00	-47.93
5610.0	H	-	-	-76.60	5.07	35.47	-59.79	-13.00	-46.79
7480.0	H	-	-	-77.51	8.73	38.22	-57.04	-13.00	-44.04

Table 7-34. Antenna 1 Radiated Spurious Data (NR Band n25/2 – Low Channel)

Bandwidth (MHz):	40
Frequency (MHz):	1882.5
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]
3765.0	H	-	-	-75.53	2.90	34.37	-60.89	-13.00	-47.89
5647.5	H	-	-	-76.63	4.91	35.28	-59.98	-13.00	-46.98
7530.0	H	-	-	-77.46	8.95	38.49	-56.77	-13.00	-43.77

Table 7-35. Antenna 1 Radiated Spurious Data (NR Band n25/2 – Mid Channel)

Bandwidth (MHz):	40
Frequency (MHz):	1895.0
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]
3790.0	H	-	-	-75.70	3.10	34.40	-60.86	-13.00	-47.86
5685.0	H	-	-	-76.08	5.35	36.27	-58.99	-13.00	-45.99
7580.0	H	-	-	-77.68	8.80	38.12	-57.14	-13.00	-44.14

Table 7-36. Antenna 1 Radiated Spurious Data (NR Band n25/2 – High Channel)

FCC ID: BCGA2435	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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WCDMA PCS

Mode:	WCDMA RMC
Channel:	9262
Frequency (MHz):	1852.4

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]
3704.8	H	-	-	-79.56	5.09	32.53	-62.73	-13.00	-49.73
5557.2	H	-	-	-80.36	8.15	34.79	-60.47	-13.00	-47.47
7409.6	H	-	-	-80.71	10.67	36.96	-58.30	-13.00	-45.30

Table 7-37. Antenna 1 Radiated Spurious Data (WCDMA PCS – Low Channel)

Mode:	WCDMA RMC
Channel:	9400
Frequency (MHz):	1880

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]
3760.0	H	-	-	-79.71	5.57	32.86	-62.40	-13.00	-49.40
5640.0	H	-	-	-79.98	8.00	35.02	-60.24	-13.00	-47.24
7520.0	H	-	-	-81.61	10.88	36.27	-58.99	-13.00	-45.99

Table 7-38. Antenna 1 Radiated Spurious Data (WCDMA PCS – Mid Channel)

Mode:	WCDMA RMC
Channel:	9538
Frequency (MHz):	1907.6

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]
3815.2	H	-	-	-79.85	5.75	32.90	-62.36	-13.00	-49.36
5722.8	H	-	-	-80.22	8.29	35.07	-60.19	-13.00	-47.19
7630.4	H	-	-	-81.13	11.26	37.13	-58.13	-13.00	-45.13

Table 7-39. Antenna 1 Radiated Spurious Data (WCDMA PCS – High Channel)

FCC ID: BCGA2435	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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7.7.3 Antenna 3 – Radiated Spurious Emission Measurement

LTE Band 25/2

Bandwidth (MHz):	20
Frequency (MHz):	1860.0
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]
3720.0	V	-	-	-79.30	5.47	33.17	-62.09	-13.00	-49.09
5580.0	V	-	-	-79.83	7.95	35.12	-60.14	-13.00	-47.14
7440.0	V	-	-	-80.45	10.78	37.33	-57.93	-13.00	-44.93

Table 7-40. Antenna 3 Radiated Spurious Data (LTE Band 25/2 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1882.5
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]
3765.0	V	-	-	-79.32	5.59	33.27	-61.99	-13.00	-48.99
5647.5	V	-	-	-79.84	8.02	35.18	-60.08	-13.00	-47.08
7530.0	V	-	-	-80.76	10.96	37.20	-58.06	-13.00	-45.06

Table 7-41. Antenna 3 Radiated Spurious Data (LTE Band 25/2 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1905.0
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]
3810.00	V	-	-	-79.43	5.90	33.47	-61.79	-13.00	-48.79
5715.00	V	-	-	-79.82	8.20	35.38	-59.88	-13.00	-46.88
7620.00	V	-	-	-80.46	11.08	37.62	-57.64	-13.00	-44.64

Table 7-42. Antenna 3 Radiated Spurious Data (LTE Band 25/2 – High Channel)

FCC ID: BCGA2435	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n25/2

Bandwidth (MHz):	40
Frequency (MHz):	1870.0
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]
3740.0	V	-	-	-75.69	3.02	34.33	-60.93	-13.00	-47.93
5610.0	V	-	-	-76.54	5.07	35.53	-59.73	-13.00	-46.73
7480.0	V	-	-	-77.61	8.73	38.12	-57.14	-13.00	-44.14

Table 7-43. Antenna 3 Radiated Spurious Data (NR Band n25/2 – Low Channel)

Bandwidth (MHz):	40
Frequency (MHz):	1882.5
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]
3765.0	V	-	-	-75.69	2.90	34.21	-61.05	-13.00	-48.05
5647.5	V	-	-	-76.51	4.91	35.40	-59.86	-13.00	-46.86
7530.0	V	-	-	-77.37	8.95	38.58	-56.68	-13.00	-43.68

Table 7-44. Antenna 3 Radiated Spurious Data (NR Band n25/2 – Mid Channel)

Bandwidth (MHz):	40
Frequency (MHz):	1895.0
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]
3790.0	V	-	-	-75.74	3.10	34.36	-60.90	-13.00	-47.90
5685.0	V	-	-	-76.22	5.35	36.13	-59.13	-13.00	-46.13
7580.0	V	-	-	-77.70	8.80	38.10	-57.16	-13.00	-44.16

Table 7-45. Antenna 3 Radiated Spurious Data (NR Band n25/2 – High Channel)

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WCDMA PCS

Mode:	WCDMA RMC
Channel:	9262
Frequency (MHz):	1852.4

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]
3704.8	V	-	-	-79.39	5.33	32.94	-62.31	-13.00	-49.31
5557.2	V	-	-	-79.75	8.17	35.42	-59.84	-13.00	-46.84
7409.6	V	-	-	-80.70	10.61	36.91	-58.34	-13.00	-45.34

Table 7-46. Antenna 3 Radiated Spurious Data (WCDMA PCS – Low Channel)

Mode:	WCDMA RMC
Channel:	9400
Frequency (MHz):	1880

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]
3760.0	V	-	-	-79.73	5.41	32.68	-62.58	-13.00	-49.58
5640.0	V	-	-	-78.99	7.98	35.99	-59.26	-13.00	-46.26
7520.0	V	-	-	-81.36	10.91	36.55	-58.70	-13.00	-45.70

Table 7-47. Antenna 3 Radiated Spurious Data (WCDMA PCS – Mid Channel)

Mode:	WCDMA RMC
Channel:	9538
Frequency (MHz):	1907.6

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]
3815.2	V	-	-	-79.76	5.68	32.92	-62.34	-13.00	-49.34
5722.8	V	-	-	-78.88	8.29	36.41	-58.85	-13.00	-45.85
7630.4	V	-	-	-81.27	11.28	37.01	-58.25	-13.00	-45.25

Table 7-48. Antenna 3 Radiated Spurious Data (WCDMA PCS – High Channel)

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7.7.4 Antenna 2b – Radiated Spurious Emission Measurement

LTE Band 25/2

Bandwidth (MHz):	20
Frequency (MHz):	1860.0
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]
3720.0	V	-	-	-79.22	5.47	33.25	-62.01	-13.00	-49.01
5580.0	V	275	356	-77.98	7.95	36.97	-58.29	-13.00	-45.29
7440.0	V	-	-	-80.44	10.78	37.34	-57.92	-13.00	-44.92
9300.0	V	-	-	-82.70	12.68	36.98	-58.27	-13.00	-45.27
11160.0	V	-	-	-83.35	15.71	39.36	-55.90	-13.00	-42.90

Table 7-49. Antenna 2b Radiated Spurious Data (LTE Band 25/2 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1882.5
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]
3765.0	V	-	-	-79.09	5.59	33.50	-61.76	-13.00	-48.76
5647.5	V	262	359	-78.06	8.02	36.96	-58.30	-13.00	-45.30
7530.0	V	-	-	-80.62	10.96	37.34	-57.92	-13.00	-44.92
9412.5	V	-	-	-82.99	13.38	37.39	-57.87	-13.00	-44.87
11295.0	V	-	-	-83.27	16.48	40.21	-55.04	-13.00	-42.04

Table 7-50. Antenna 2b Radiated Spurious Data (LTE Band 25/2 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1905.0
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]
3810.00	V	-	-	-79.06	5.90	33.84	-61.42	-13.00	-48.42
5715.00	V	296	360	-78.15	8.20	37.05	-58.21	-13.00	-45.21
7620.00	V	-	-	-80.67	11.08	37.41	-57.85	-13.00	-44.85
9525.00	V	-	-	-82.57	12.95	37.38	-57.87	-13.00	-44.87
11430.00	V	-	-	-83.44	16.06	39.62	-55.63	-13.00	-42.63

Table 7-51. Antenna 2b Radiated Spurious Data (LTE Band 25/2 – High Channel)

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NR Band n25/2

Bandwidth (MHz):	40
Frequency (MHz):	1870.0
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]
3740.0	H	-	-	-75.75	3.02	34.27	-60.99	-13.00	-47.99
5610.0	H	-	-	-76.68	5.07	35.39	-59.87	-13.00	-46.87
7480.0	H	-	-	-77.50	8.73	38.23	-57.03	-13.00	-44.03

Table 7-52. Antenna 2b Radiated Spurious Data (NR Band n25/2 – Low Channel)

Bandwidth (MHz):	40
Frequency (MHz):	1882.5
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]
3765.0	H	-	-	-75.88	2.90	34.02	-61.24	-13.00	-48.24
5647.5	H	-	-	-76.49	4.91	35.42	-59.84	-13.00	-46.84
7530.0	H	-	-	-77.71	8.95	38.24	-57.02	-13.00	-44.02

Table 7-53. Antenna 2b Radiated Spurious Data (NR Band n25/2 – Mid Channel)

Bandwidth (MHz):	40
Frequency (MHz):	1895.0
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]
3790.0	H	-	-	-75.76	3.10	34.34	-60.92	-13.00	-47.92
5685.0	H	-	-	-76.59	5.35	35.76	-59.50	-13.00	-46.50
7580.0	H	-	-	-77.57	8.80	38.23	-57.03	-13.00	-44.03

Table 7-54. Antenna 2b Radiated Spurious Data (NR Band n25/2 – High Channel)

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WCDMA PCS

Mode:	WCDMA RMC
Channel:	9262
Frequency (MHz):	1852.4

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]
3704.8	H	-	-	-79.51	5.09	32.58	-62.68	-13.00	-49.68
5557.2	H	347	247	-73.20	8.15	41.95	-53.31	-13.00	-40.31
7409.6	H	-	-	-81.12	10.67	36.55	-58.71	-13.00	-45.71
9262.0	H	-	-	-81.56	12.30	37.74	-57.52	-13.00	-44.52
11114.4	H	-	-	-82.68	15.66	39.98	-55.28	-13.00	-42.28

Table 7-55. Antenna 2b Radiated Spurious Data (WCDMA PCS – Low Channel)

Mode:	WCDMA RMC
Channel:	9400
Frequency (MHz):	1880

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]
3760.0	H	-	-	-79.69	5.57	32.88	-62.38	-13.00	-49.38
5640.0	H	354	249	-74.48	8.00	40.52	-54.74	-13.00	-41.74
7520.0	H	-	-	-81.38	10.88	36.50	-58.76	-13.00	-45.76
9400.0	H	-	-	-82.25	13.29	38.04	-57.22	-13.00	-44.22
11280.0	H	-	-	-83.14	16.00	39.86	-55.39	-13.00	-42.39

Table 7-56. Antenna 2b Radiated Spurious Data (WCDMA PCS – Mid Channel)

Mode:	WCDMA RMC
Channel:	9538
Frequency (MHz):	1907.6

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]
3815.2	H	-	-	-79.82	5.75	32.93	-62.33	-13.00	-49.33
5722.8	H	384	45	-65.25	8.29	50.04	-45.22	-13.00	-32.22
7630.4	H	-	-	-81.27	11.26	36.99	-58.27	-13.00	-45.27
9538.0	H	-	-	-82.16	13.02	37.86	-57.40	-13.00	-44.40
11445.6	H	-	-	-83.36	16.10	39.74	-55.52	-13.00	-42.52

Table 7-57. Antenna 2b Radiated Spurious Data (WCDMA PCS – High Channel)

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7.8 Frequency Stability / Temperature Variation

§2.1055, §24.235

Test Overview and Limit

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26-2015 and TIA-603-E-2016. The frequency stability of the transmitter is measured by:

- a.) **Temperature:** The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

For Part 24 the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Test Procedure Used

ANSI C63.26-2015

TIA-603-E-2016

Test Settings

1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
2. The equipment is turned on in a “standby” condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

Test Setup

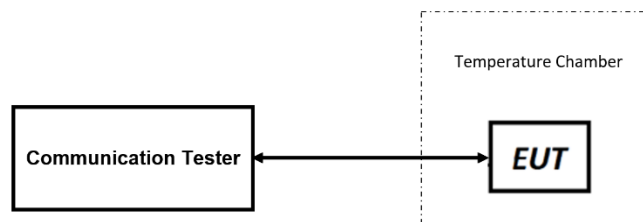


Figure 7-8. Test Instrument & Measurement Setup

Test Notes

1. All port were tested and only the worst case data were reported.

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Frequency Stability / Temperature Variation

NR Band n25/2							
Low Channel Frequency (Hz):			1,870,000,000				
High Channel Frequency (Hz):			1,895,000,000				
Ref. Voltage (VDC):			3.80				
Voltage (%)	Power (VDC)	Temp (°C)	Low Freq. (Hz)	High Freq. (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	1,869,999,583	1,894,999,587	-417	-413	-0.00002230
		- 20	1,869,999,634	1,894,999,621	-366	-379	-0.00002000
		- 10	1,869,999,650	1,894,999,609	-350	-391	-0.00002063
		0	1,869,999,597	1,894,999,565	-403	-435	-0.00002296
		+ 10	1,869,999,550	1,894,999,568	-450	-432	-0.00002406
		+ 20 (Ref)	1,870,000,000	1,895,000,000	0	0	0.00000000
		+ 30	1,869,999,566	1,894,999,631	-434	-369	-0.00002321
		+ 40	1,869,999,602	1,894,999,624	-398	-376	-0.00002128
Battery Endpoint	3.23	+ 50	1,869,999,621	1,894,999,552	-379	-448	-0.00002364
		+ 20	1,869,999,654	1,894,999,560	-346	-440	-0.0000232

Table 7-58. NR Band n25/2 Frequency Stability Data

Note: The lowest and highest channel of this band have been tested and is determined to remain operating in-band over the temperature and voltage range as tested

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Frequency Stability / Temperature Variation

LTE Band 25/2							
			Low Channel Frequency (Hz):		1,860,000,000		
			High Channel Frequency (Hz):		1,905,000,000		
			Ref. Voltage (VDC):		3.80		
Voltage (%)	Power (VDC)	Temp (°C)	Low Freq. (Hz)	High Freq. (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	1,860,000,014	1,905,000,010	14	10	0.00000075
		- 20	1,860,000,028	1,905,000,027	28	27	0.00000151
		- 10	1,860,000,015	1,905,000,013	15	13	0.00000081
		0	1,860,000,025	1,905,000,013	25	13	0.00000134
		+ 10	1,860,000,019	1,905,000,015	19	15	0.00000102
		+ 20 (Ref)	1,860,000,000	1,905,000,000	0	0	0.00000000
		+ 30	1,860,000,015	1,905,000,018	15	18	0.00000094
		+ 40	1,860,000,027	1,905,000,024	27	24	0.00000145
		+ 50	1,860,000,017	1,905,000,012	17	12	0.00000091
Battery Endpoint	3.23	+ 20	1,860,000,012	1,905,000,029	12	29	0.0000015

Table 7-59. LTE Band 25/2 Frequency Stability Data

Note: The lowest and highest channel of this band have been tested and is determined to remain operating in-band over the temperature and voltage range as tested

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Frequency Stability / Temperature Variation

WCDMA PCS							
			Low Channel Frequency (Hz):		1,852,400,000		
			High Channel Frequency (Hz):		1,907,600,000		
			Ref. Voltage (VDC):		3.80		
Voltage (%)	Power (VDC)	Temp (°C)	Low Freq. (Hz)	High Freq. (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	1,852,400,009	1,907,600,024	9	24	0.00000126
		- 20	1,852,400,024	1,907,600,023	24	23	0.00000130
		- 10	1,852,400,022	1,907,600,009	22	9	0.00000119
		0	1,852,400,010	1,907,600,012	10	12	0.00000063
		+ 10	1,852,400,011	1,907,600,013	11	13	0.00000068
		+ 20 (Ref)	1,852,400,000	1,907,600,000	0	0	0.00000000
		+ 30	1,852,400,019	1,907,600,019	19	19	0.00000103
		+ 40	1,852,400,009	1,907,600,018	9	18	0.00000094
Battery Endpoint	3.23	+ 50	1,852,400,010	1,907,600,021	10	21	0.00000110
		+ 20	1,852,400,015	1,907,600,010	15	10	0.00000008

Table 7-60. WCDMA PCS Frequency Stability Data

Note: The lowest and highest channel of this band have been tested and is determined to remain operating in-band over the temperature and voltage range as tested

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8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the Apple **Tablet Device** **FCC ID: BCGA2435** complies with all these requirements of Part 24 of the FCC rules.

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9.0 APPENDIX A

Antenna gains provided by manufacturer:

Band	Horizontal (dBi)	Vertical (dBi)
B1	1.3	1.1
B2	1.5	1.3
B3	0.5	-0.5
B5	-3.1	-2.6
B7	-3.1	-0.3
B8	-1.7	-2.8
B11	-1.1	-4
B13	-1.5	-1.9
B17	-2.4	-1.9
B20	-3.4	-2.6
B21	-1.4	-3.9
B28	-2.5	-1.9
B30	-2.8	-2.1
B34	-3.1	-0.8
B39	1.5	0.8
B40	-2.6	-2.1
B41	-3.2	-0.4
B42	-1.2	-3.4
B48	-1.2	-3.5
B66	0.4	-0.9
B71	-1.9	-2.1
n41	-3.2	-0.4
n70	-1.6	-1.9
n77	-0.6	-2.6
n78	-2.9	-2.6
n79	0.1	-0.3

Table 9-1. Cellular Antenna Gain (Ant 1); Type: IFA

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Band	Horizontal (dBi)	Vertical (dBi)
B1	0.6	0.6
B2	1.4	0.5
B3	2.1	0.7
B5	-3.3	-1.3
B7	-3.1	-2.7
B8	-2.2	-3.2
B11	0.1	-2.3
B13	-2.7	-3
B17	-2.5	-2.3
B20	-2.6	-1.7
B21	0.2	-1.9
B28	-2.2	-1.1
B30	-4.1	-3.8
B34	-1.62	0.31
B39	-1.4	0.6
B40	-5.5	-1.2
B41	-5.6	-2.7
B42	-1.5	-0.1
B48	-1.5	0
B66	2.3	0.8
B71	-3.1	-3.6
n41	-8.8	-2.7
n70	2	0.7
n77	-1.8	-0.1
n78	-1	0.6
n79	-2.9	-0.6

Table 9-2. Cellular Antenna Gain (Ant 3); Type: IFA

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Band	Horizontal (dBi)	Vertical (dBi)
B1	-3.5	-1.3
B2	-3.4	-2.7
B3	-3.7	-3.2
B7	-1.5	0.2
B30	-2.6	-0.3
B39	-3.7	-3
B40	-2.6	0.3
B41	-1.9	-0.4
B42	-2.6	-1
B48	-2.5	-1.6
B66	-3.4	-3.1
n41	-1.9	-0.4
n70	-3.4	-3.1
n77	-1.5	-2.6
n78	-1.6	-2.6
n79	0.1	0.3

Table 9-3. Cellular Antenna Gain (Ant 4B); Type: IFA

Band	Horizontal (dBi)	Vertical (dBi)
B1	-3.3	-2.9
B2	-4.9	-4
B3	-4.5	-5
B7	0	-0.1
B30	-0.6	0.7
B39	-4.7	-4.3
B40	-0.3	1.1
B41	-0.3	-0.8
B66	-4.6	-5.5
n41	-0.3	-0.8
n70	-4.9	-4.9

Table 9-4. Cellular Antenna Gain (Ant 2B); Type: IFA

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