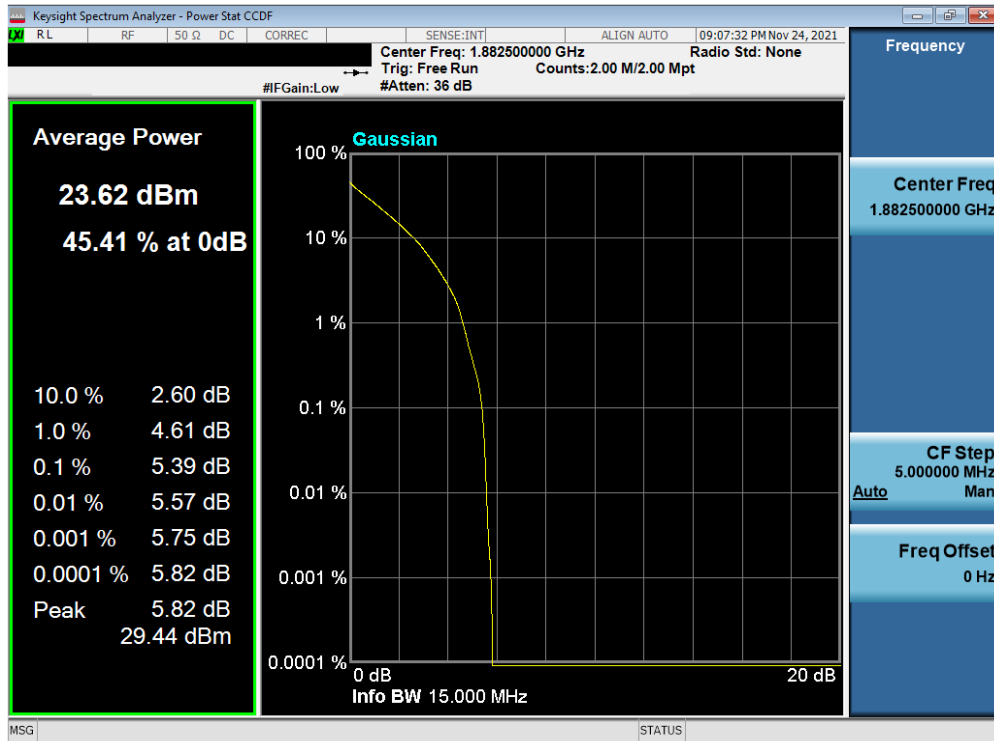
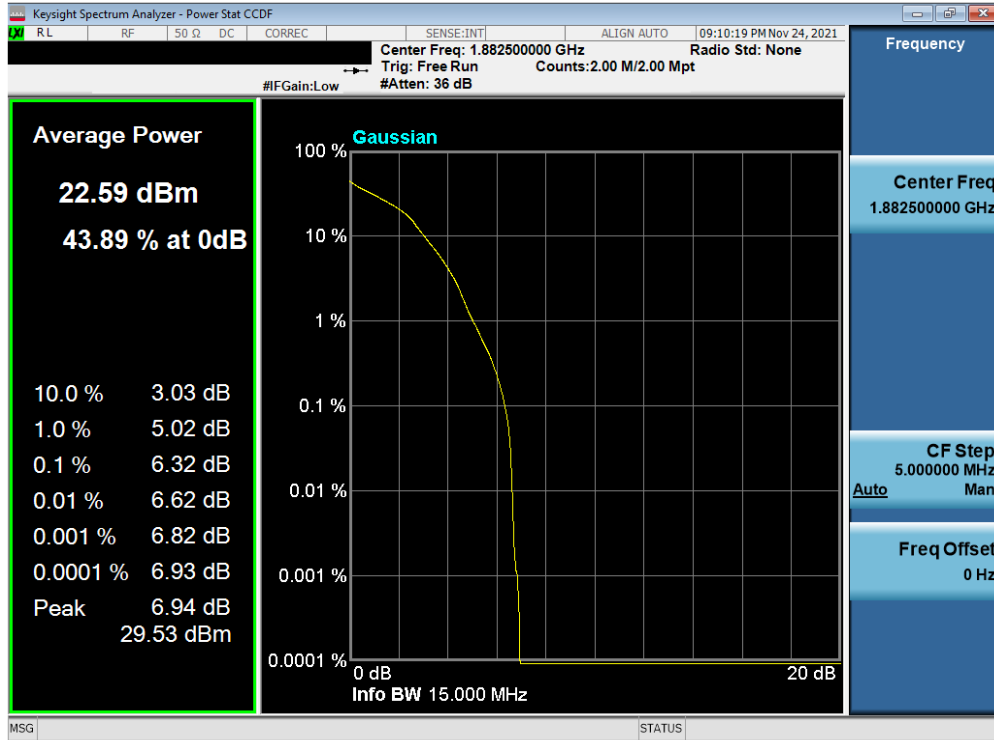


Plot 7-242. PAR Plot (NR Band n25 - 15.0MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

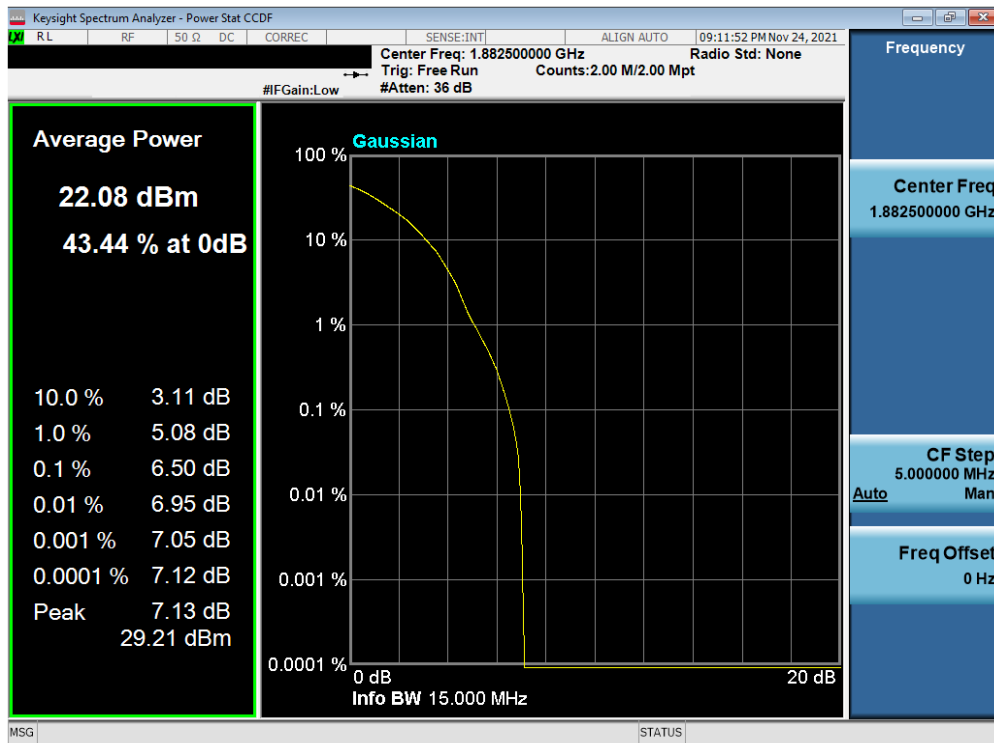


Plot 7-243. PAR Plot (NR Band n25 - 15.0MHz DFT-s-OFDM QPSK - Full RB)

FCC ID: BCGA2589	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C211150079-02.BCG	Test Dates: 12/2/2021 - 1/30/2022	EUT Type: Tablet Device	Page 142 of 210

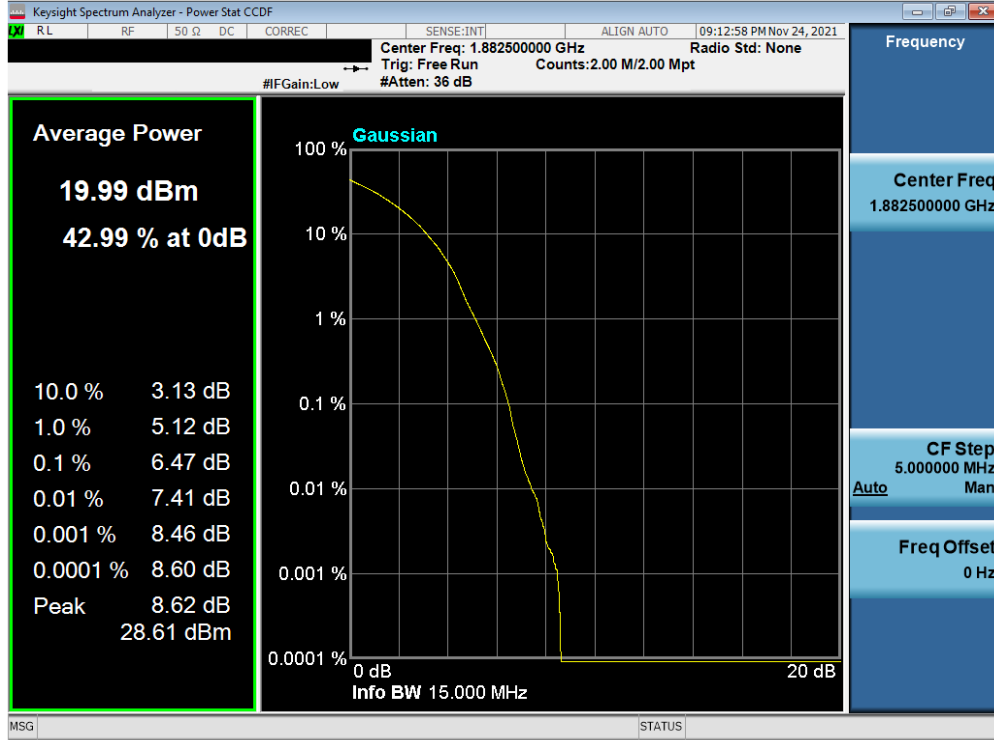


Plot 7-244. PAR Plot (NR Band n25 - 15.0MHz DFT-s-OFDM 16-QAM - Full RB)

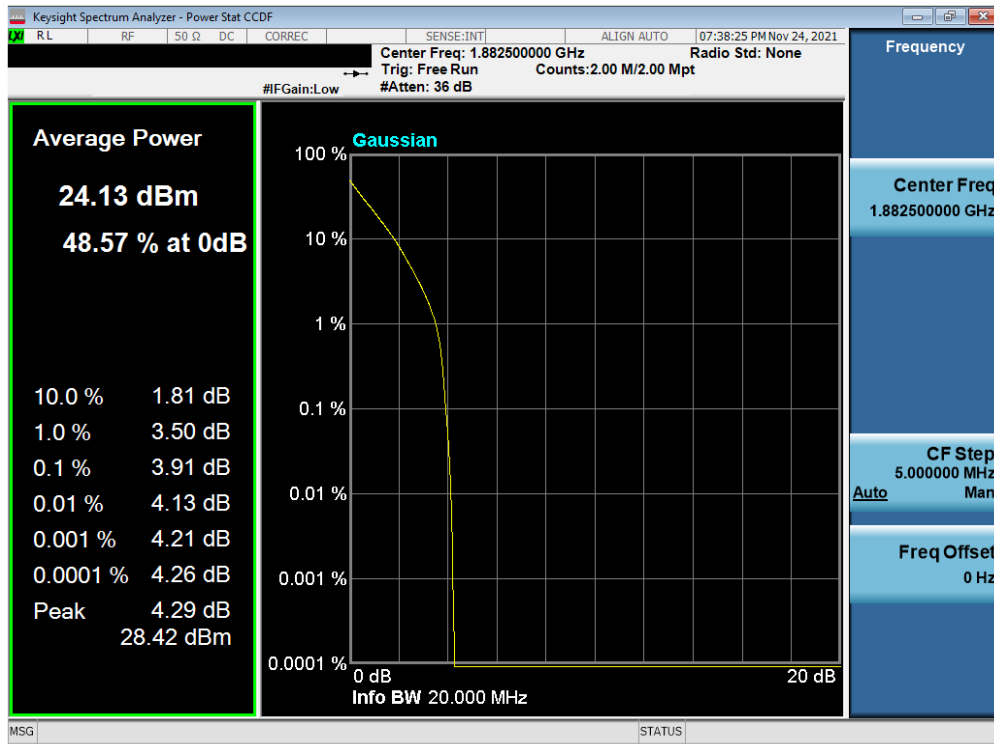


Plot 7-245. PAR Plot (NR Band n25 - 15.0MHz DFT-s-OFDM 64-QAM - Full RB)

FCC ID: BCGA2589	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C211150079-02.BCG	Test Dates: 12/2/2021 - 1/30/2022	EUT Type: Tablet Device	Page 143 of 210

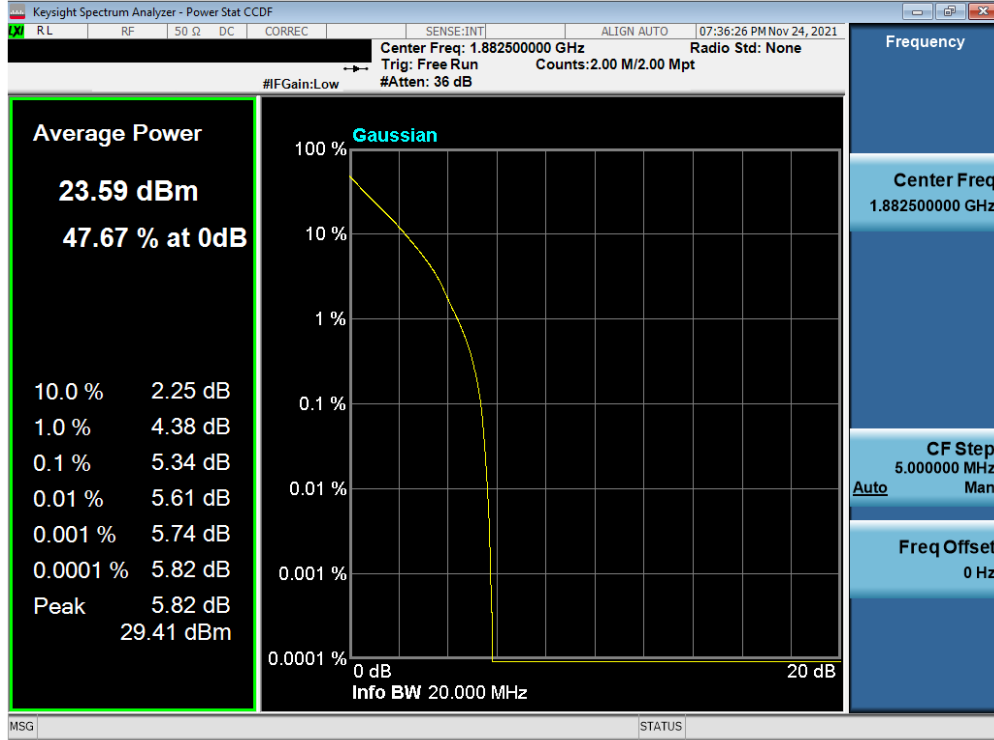


Plot 7-246. PAR Plot (NR Band n25 - 15.0MHz DFT-s-OFDM 256-QAM - Full RB)

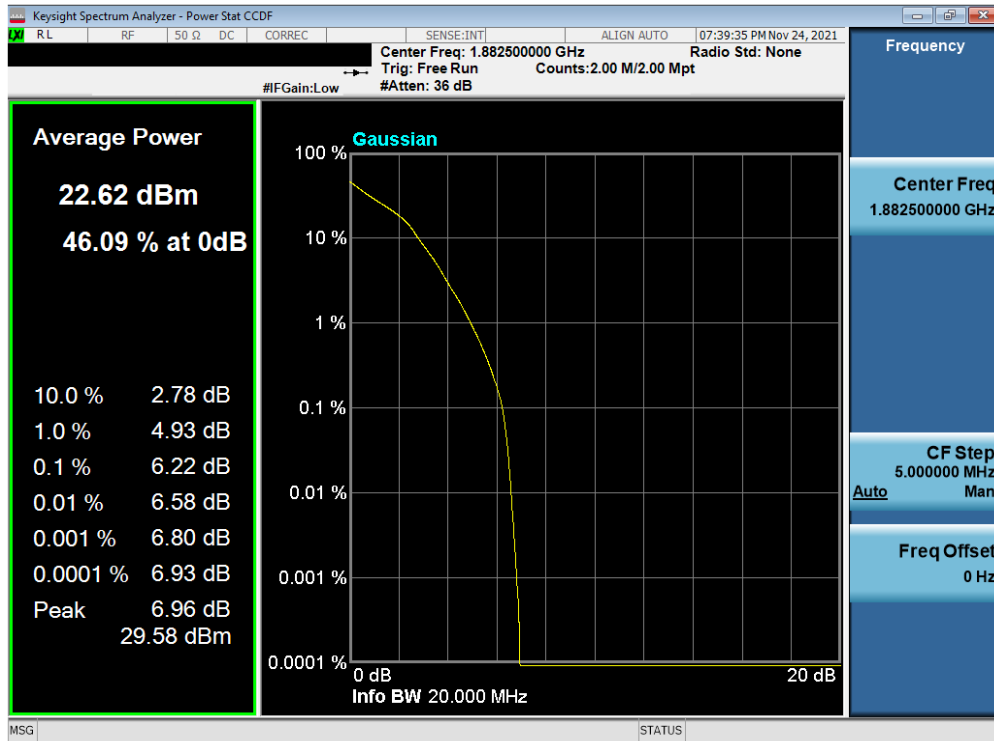


Plot 7-247. PAR Plot (NR Band n25 - 20.0MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

FCC ID: BCGA2589	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C211150079-02.BCG	Test Dates: 12/2/2021 - 1/30/2022	EUT Type: Tablet Device	Page 144 of 210

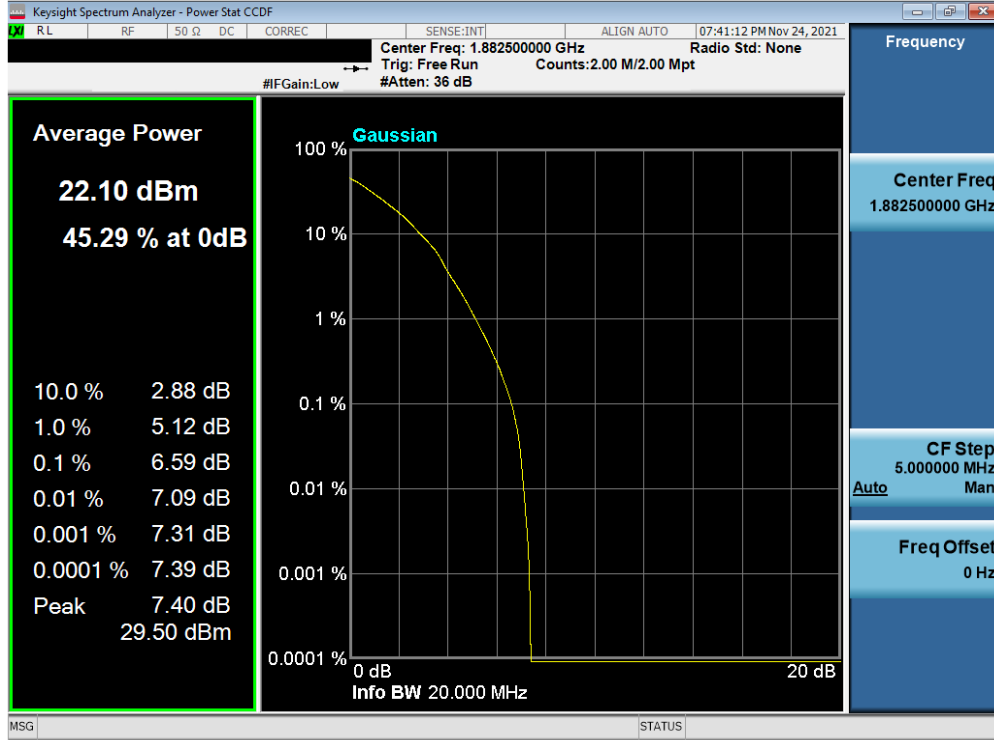


Plot 7-248. PAR Plot (NR Band n25 - 20.0MHz DFT-s-OFDM QPSK - Full RB)

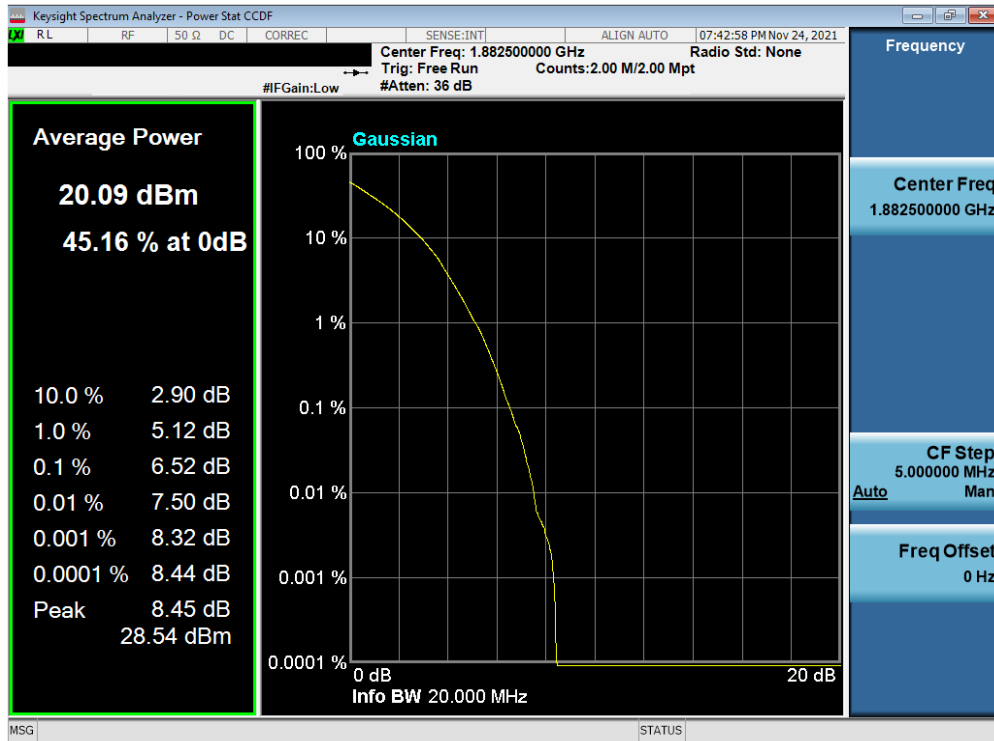


Plot 7-249. PAR Plot (NR Band n25 - 20.0MHz DFT-s-OFDM 16-QAM - Full RB)

FCC ID: BCGA2589	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C211150079-02.BCG	Test Dates: 12/2/2021 - 1/30/2022	EUT Type: Tablet Device	Page 145 of 210

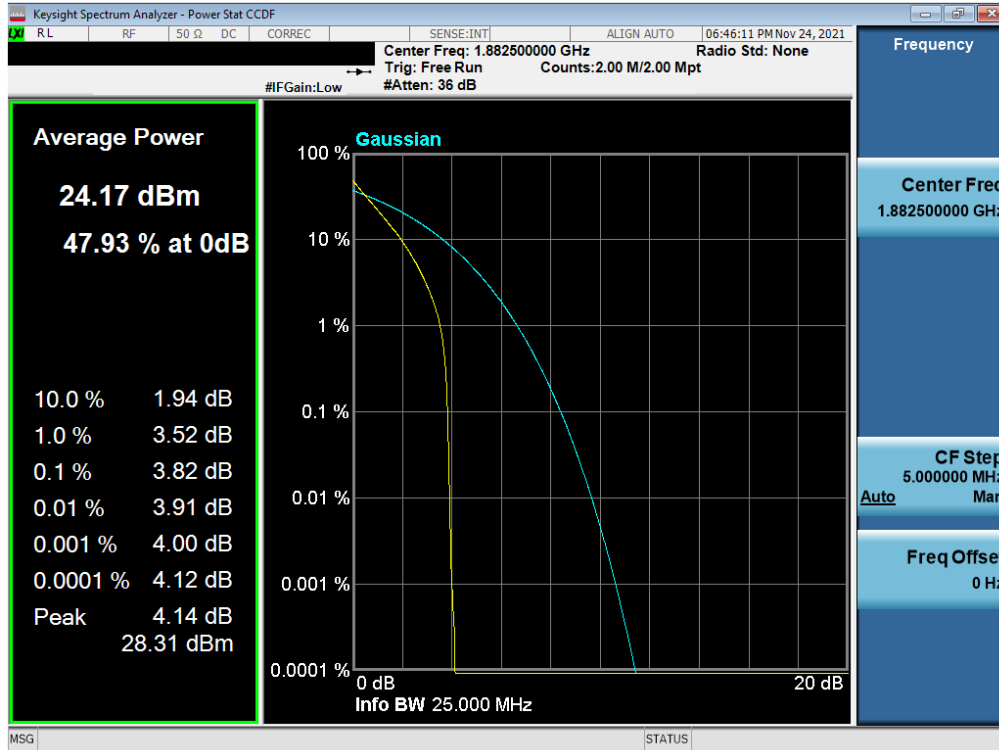


Plot 7-250. PAR Plot (NR Band n25 - 20.0MHz DFT-s-OFDM 64-QAM - Full RB)

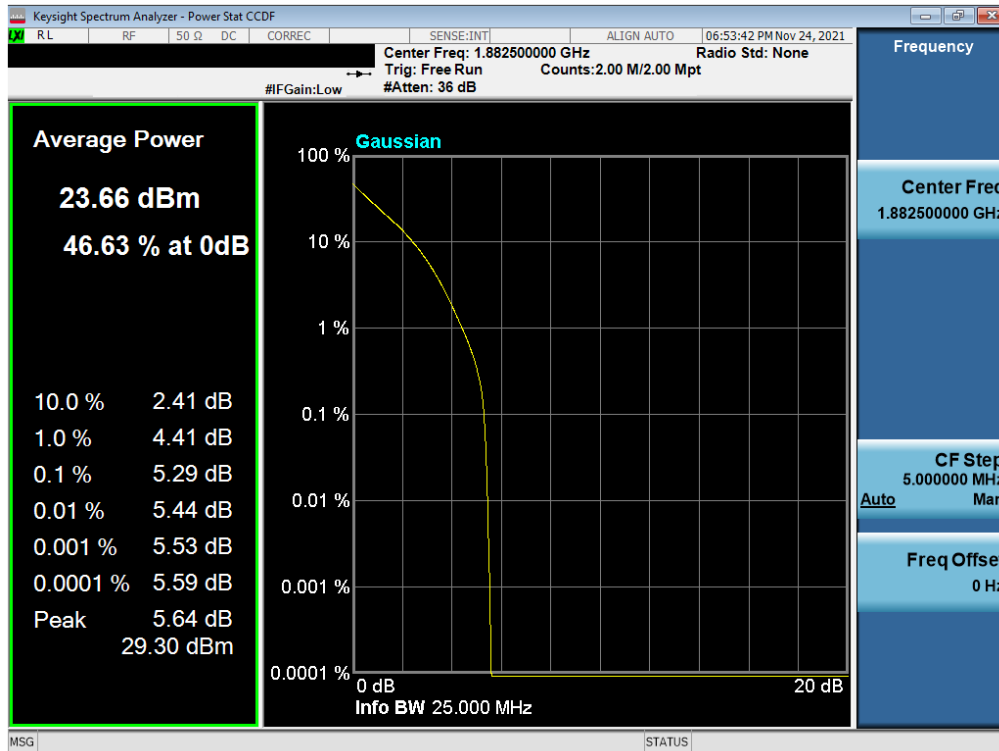


Plot 7-251. PAR Plot (NR Band n25 - 20.0MHz DFT-s-OFDM 256-QAM - Full RB)

FCC ID: BCGA2589	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C211150079-02.BCG	Test Dates: 12/2/2021 - 1/30/2022	EUT Type: Tablet Device	Page 146 of 210

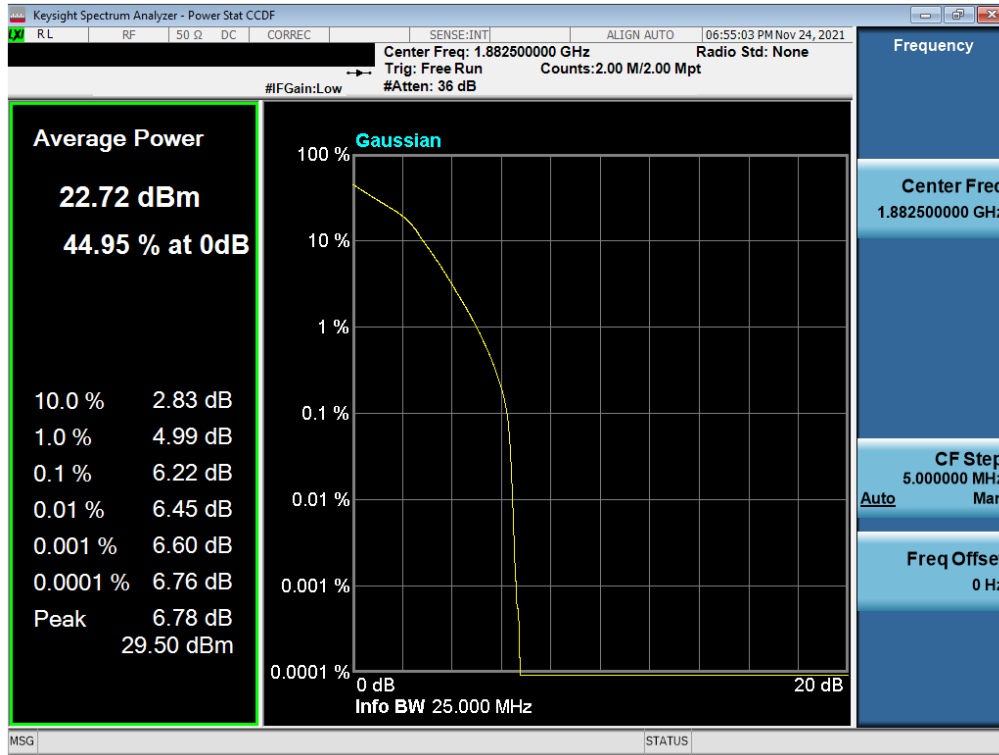


Plot 7-252. PAR Plot (NR Band n25 - 25.0MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

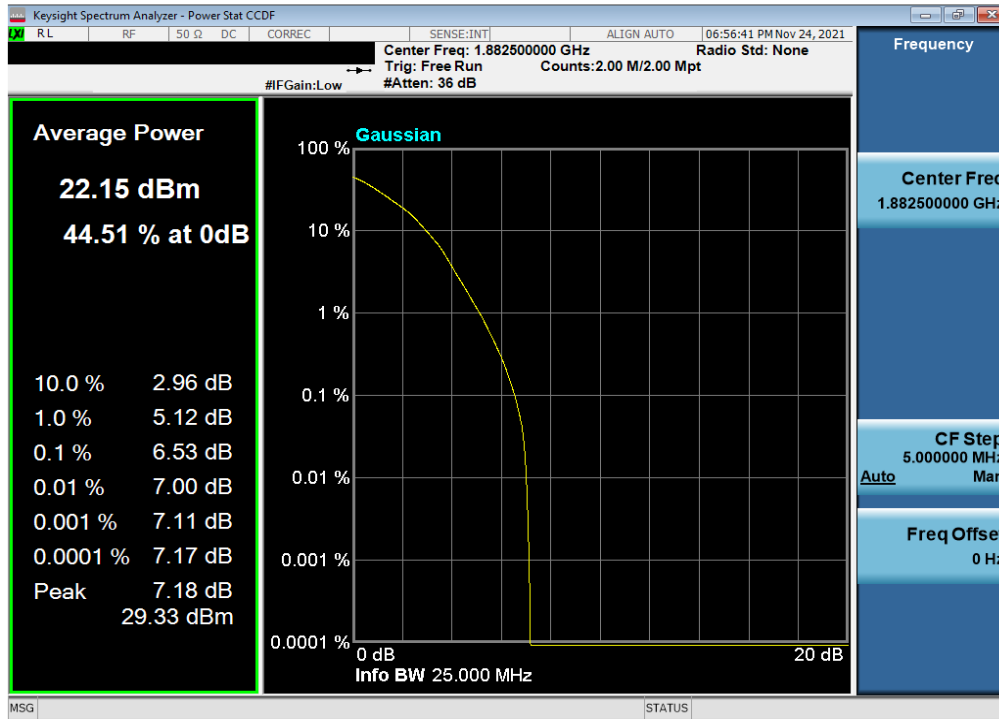


Plot 7-253. PAR Plot (NR Band n25 - 25.0MHz DFT-s-OFDM QPSK - Full RB)

FCC ID: BCGA2589	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C211150079-02.BCG	Test Dates: 12/2/2021 - 1/30/2022	EUT Type: Tablet Device	Page 147 of 210

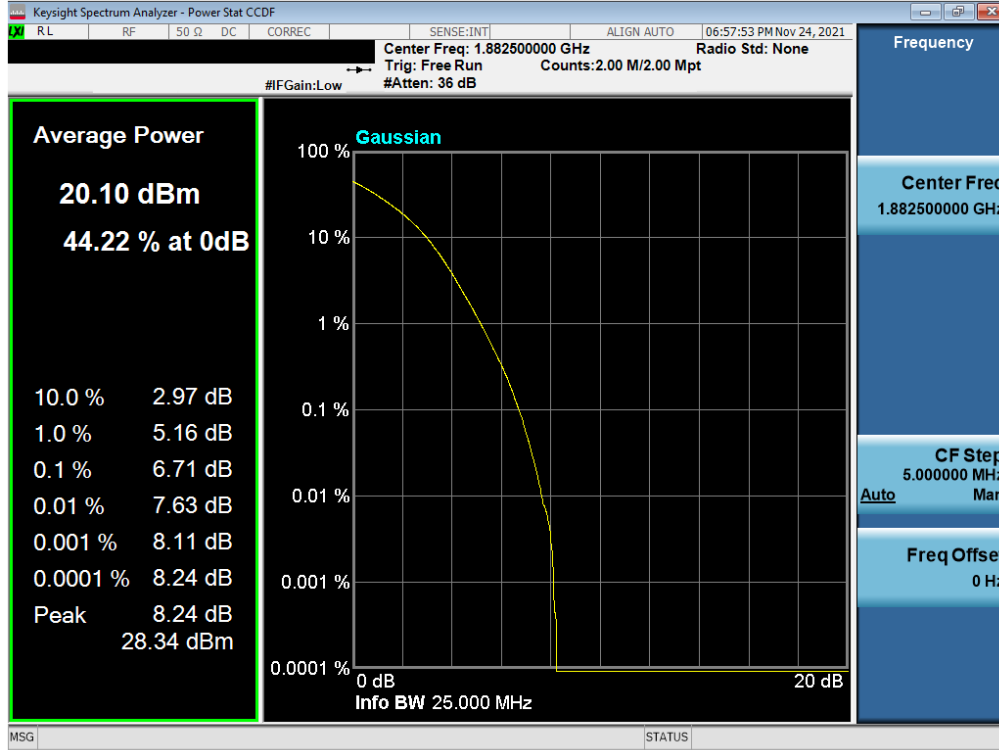


Plot 7-254. PAR Plot (NR Band n25 - 25.0MHz DFT-s-OFDM 16-QAM - Full RB)

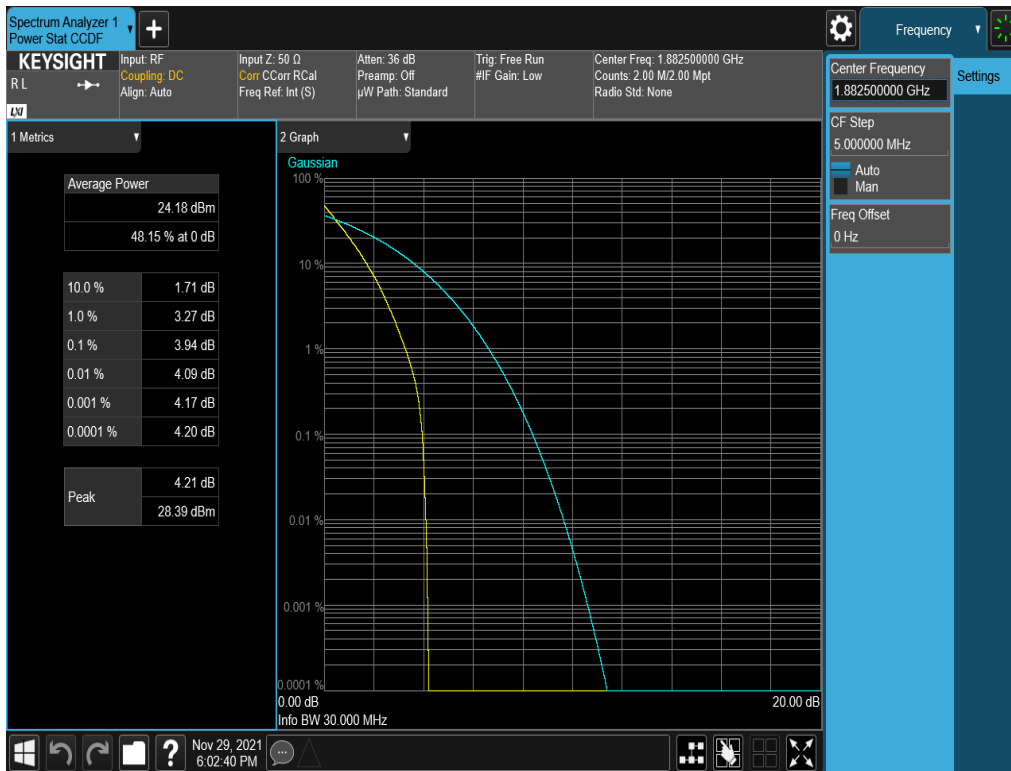


Plot 7-255. PAR Plot (NR Band n25 - 25.0MHz DFT-s-OFDM 64-QAM - Full RB)

FCC ID: BCGA2589	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C211150079-02.BCG	Test Dates: 12/2/2021 - 1/30/2022	EUT Type: Tablet Device	Page 148 of 210

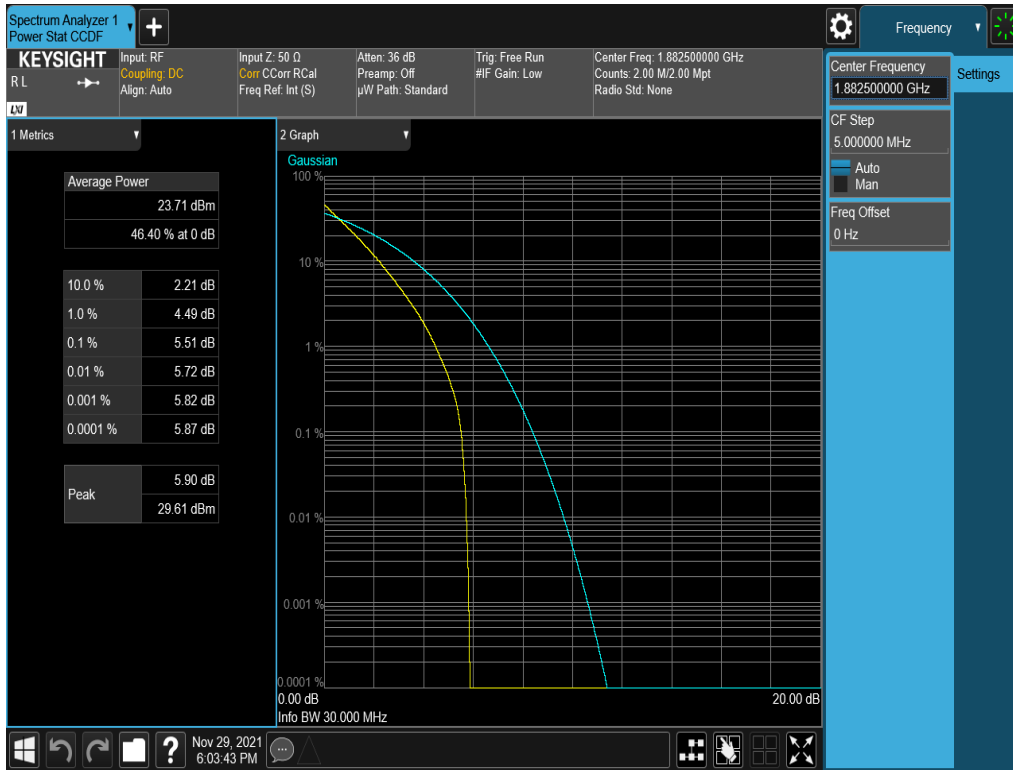


Plot 7-256. PAR Plot (NR Band n25 - 25.0MHz DFT-s-OFDM 256-QAM - Full RB)

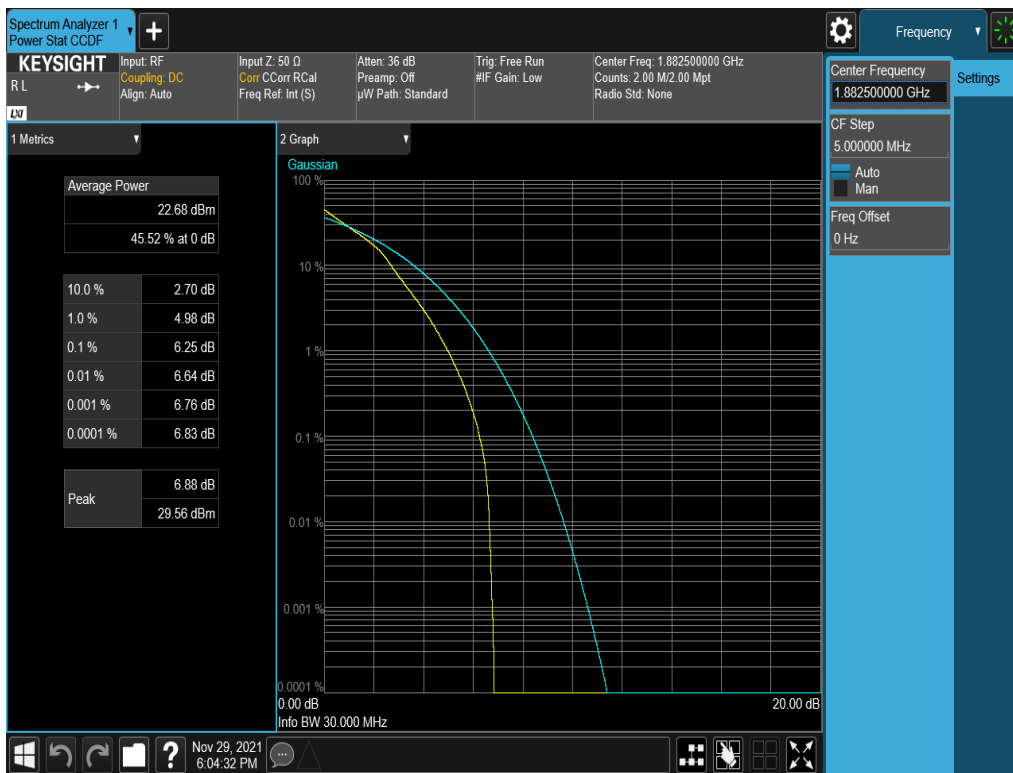


Plot 7-257. PAR Plot (NR Band n25 - 30.0MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

FCC ID: BCGA2589	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-02.BCG	Test Dates: 12/2/2021 - 1/30/2022	EUT Type: Tablet Device	Page 149 of 210

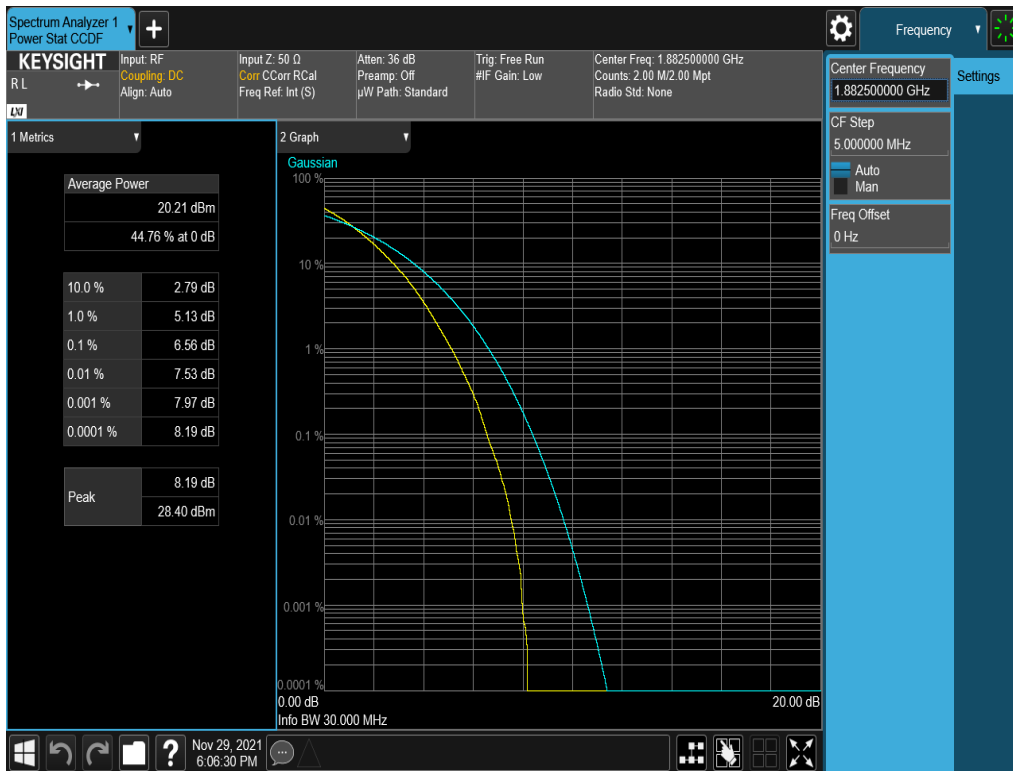
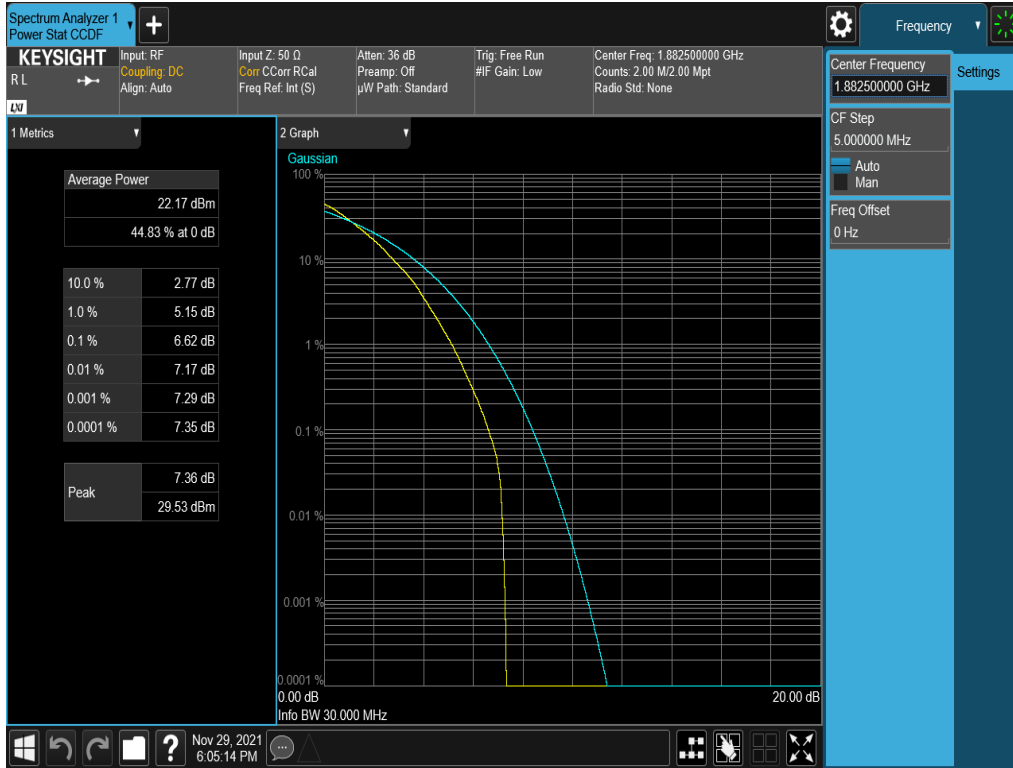


Plot 7-258. PAR Plot (NR Band n25 - 30.0MHz DFT-s-OFDM QPSK - Full RB)

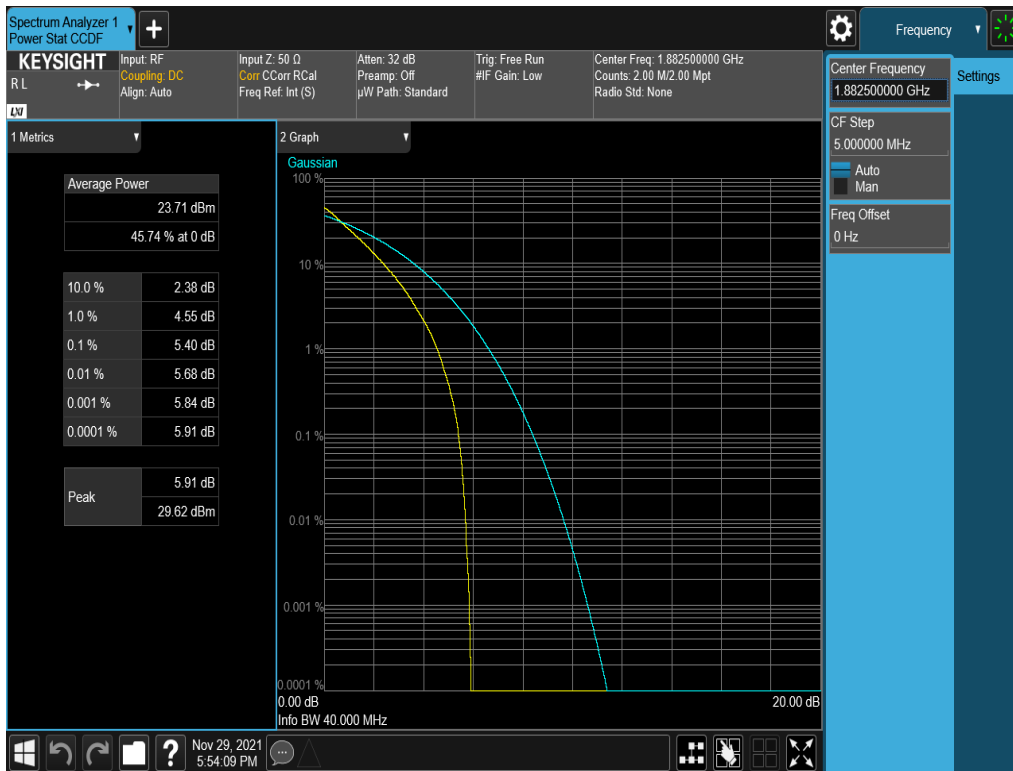
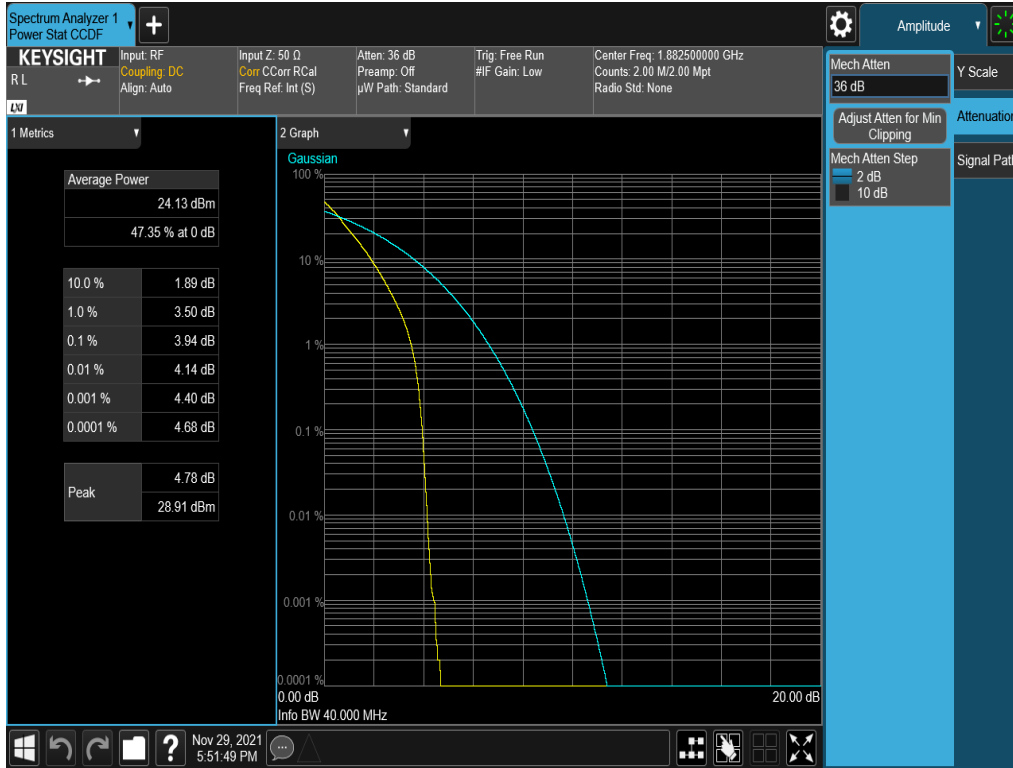


Plot 7-259. PAR Plot (NR Band n25 - 30.0MHz DFT-s-OFDM 16-QAM - Full RB)

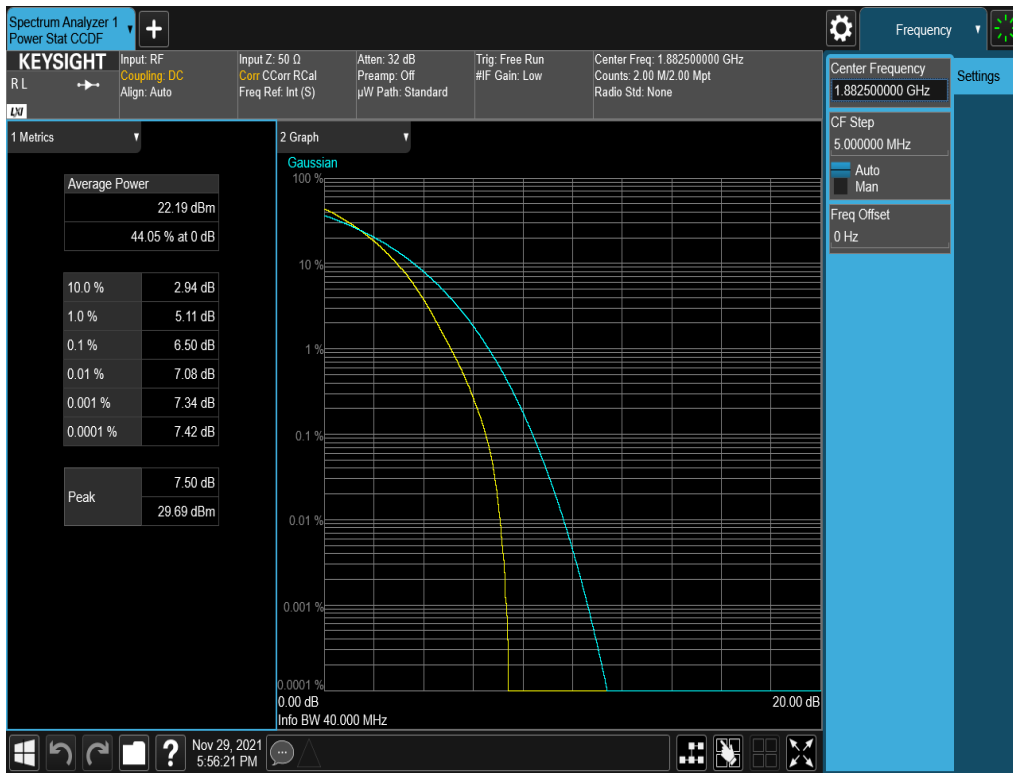
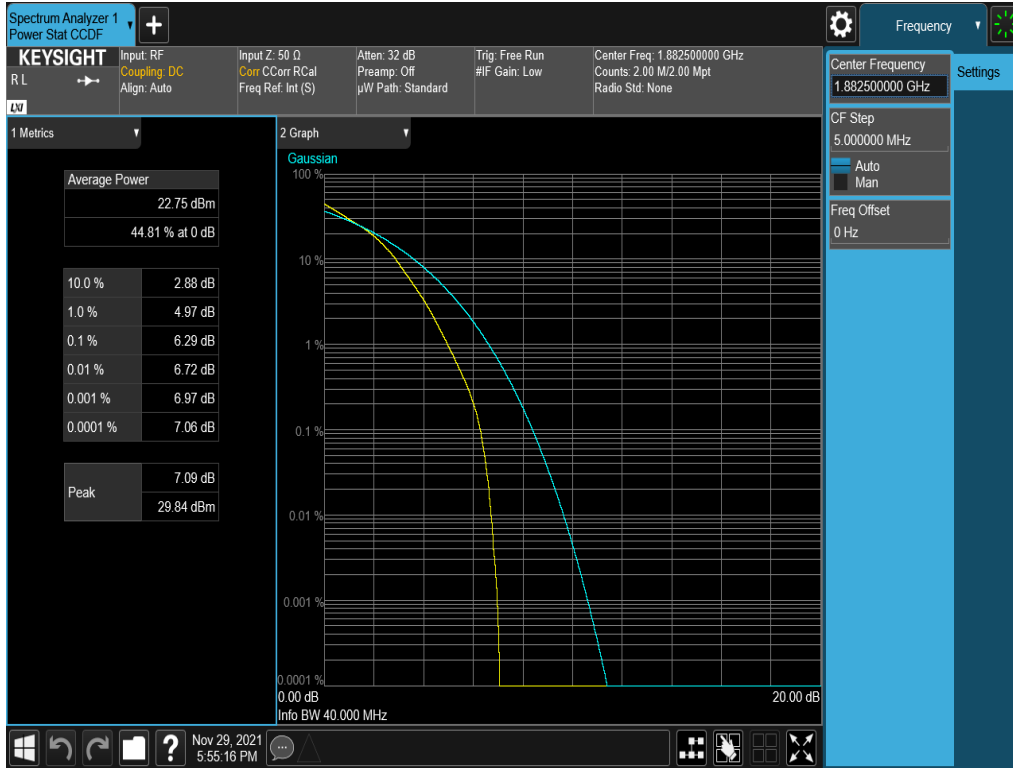
FCC ID: BCGA2589	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C211150079-02.BCG	Test Dates: 12/2/2021 - 1/30/2022	EUT Type: Tablet Device	Page 150 of 210



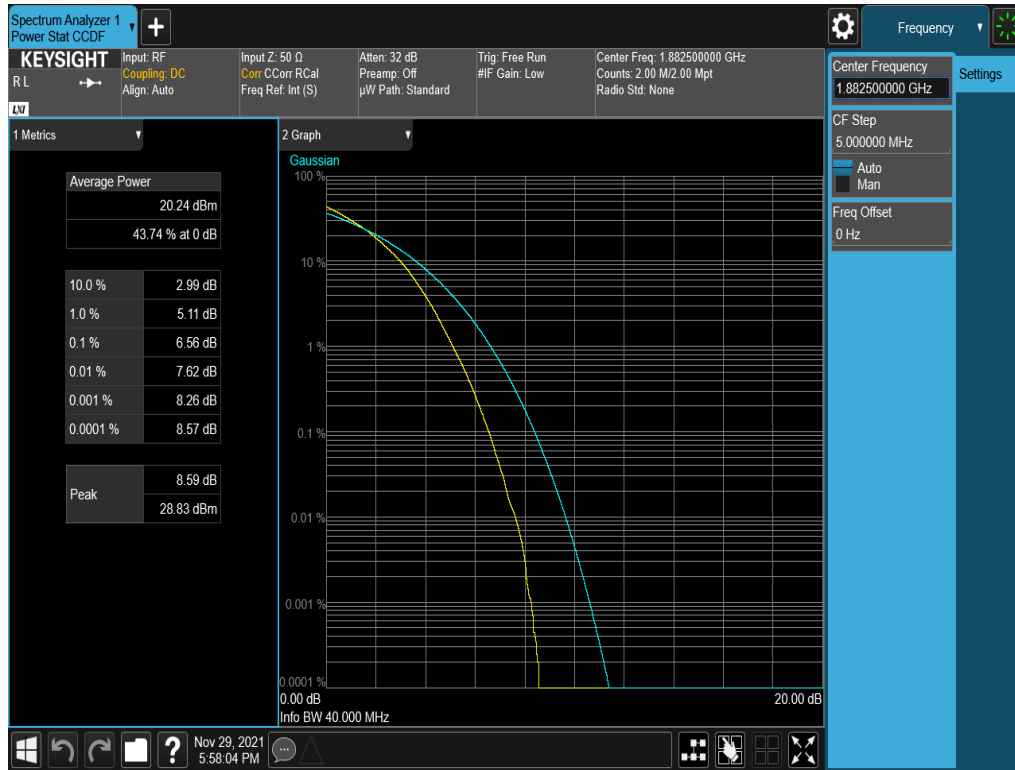
FCC ID: BCGA2589	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C211150079-02.BCG	Test Dates: 12/2/2021 - 1/30/2022	EUT Type: Tablet Device	Page 151 of 210



FCC ID: BCGA2589	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C211150079-02.BCG	Test Dates: 12/2/2021 - 1/30/2022	EUT Type: Tablet Device	Page 152 of 210



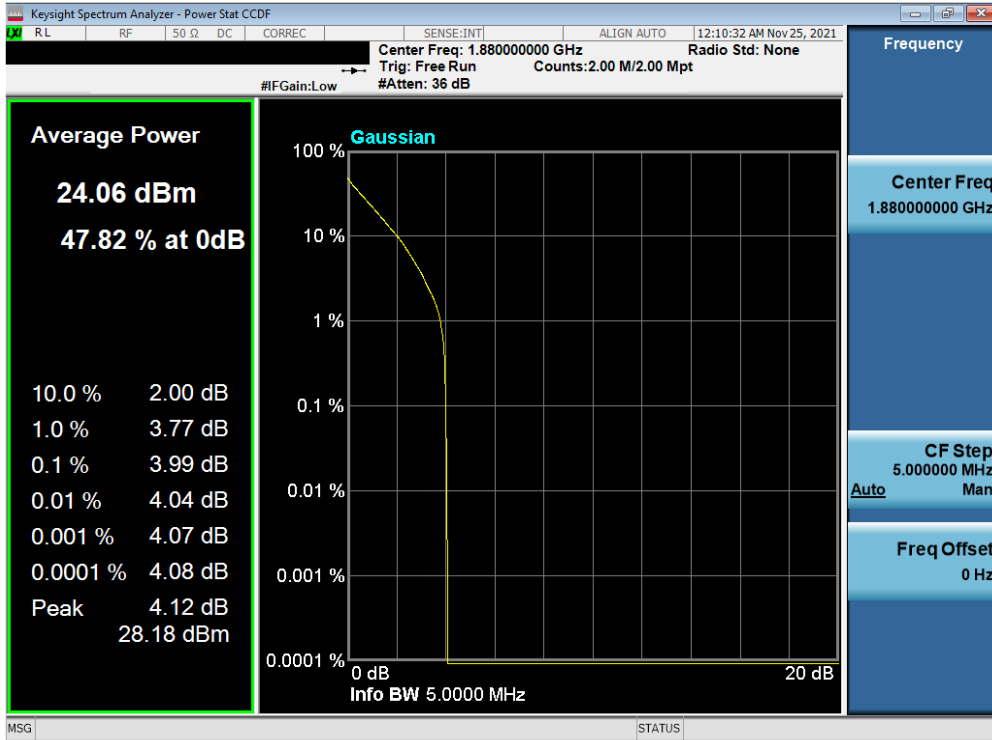
FCC ID: BCGA2589	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C211150079-02.BCG	Test Dates: 12/2/2021 - 1/30/2022	EUT Type: Tablet Device	Page 153 of 210



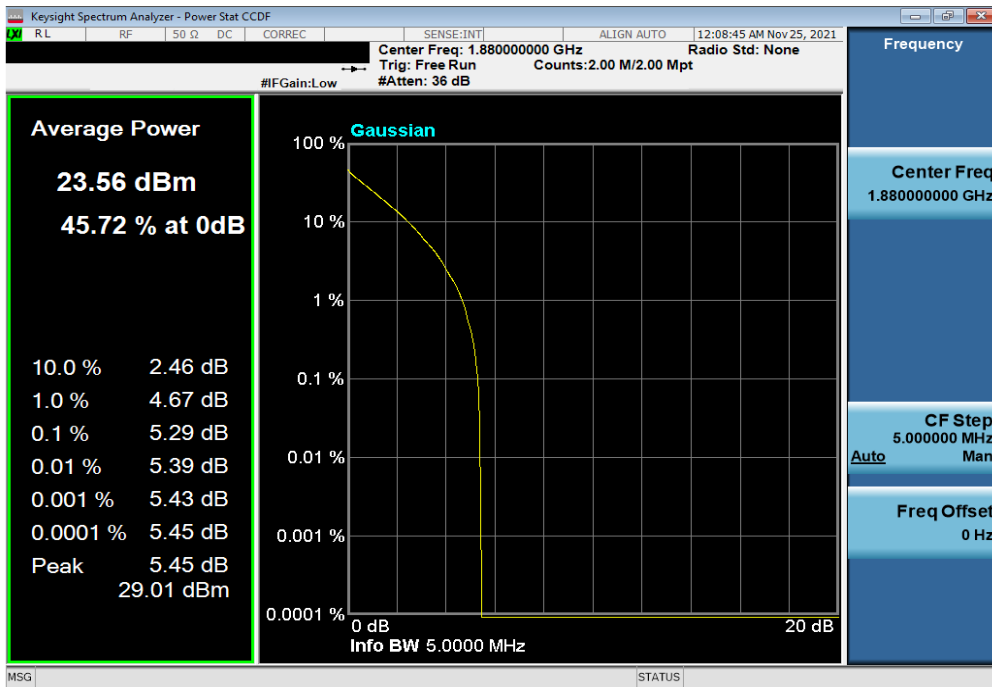
Plot 7-266. PAR Plot (NR Band n25 - 40.0MHz DFT-s-OFDM 256-QAM - Full RB)

FCC ID: BCGA2589	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-02.BCG	Test Dates: 12/2/2021 - 1/30/2022	EUT Type: Tablet Device	Page 154 of 210

NR Band n2

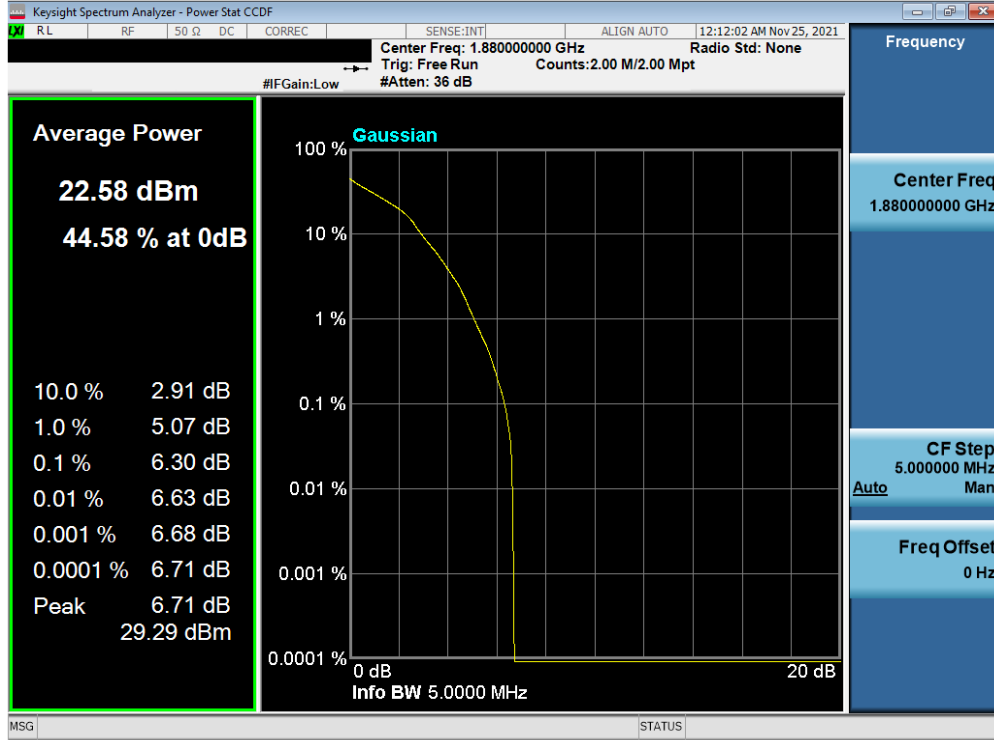


Plot 7-267. PAR Plot (NR Band n2 - 5.0MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

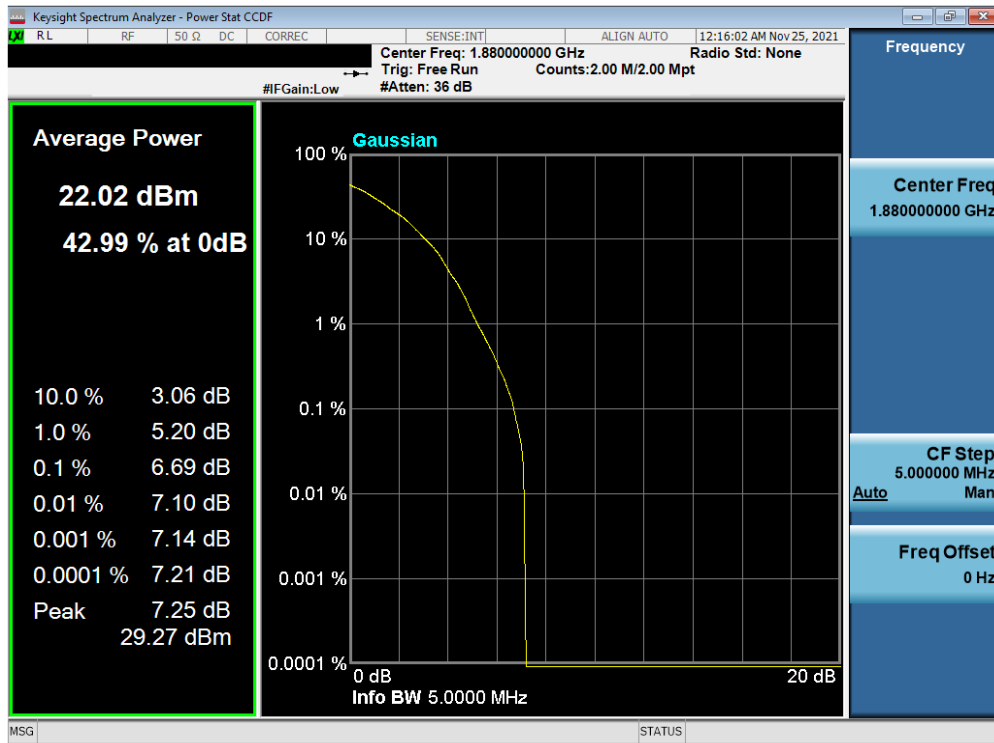


Plot 7-268. PAR Plot (NR Band n2 - 5.0MHz DFT-s-OFDM QPSK - Full RB)

FCC ID: BCGA2589	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C211150079-02.BCG	Test Dates: 12/2/2021 - 1/30/2022	EUT Type: Tablet Device	Page 155 of 210

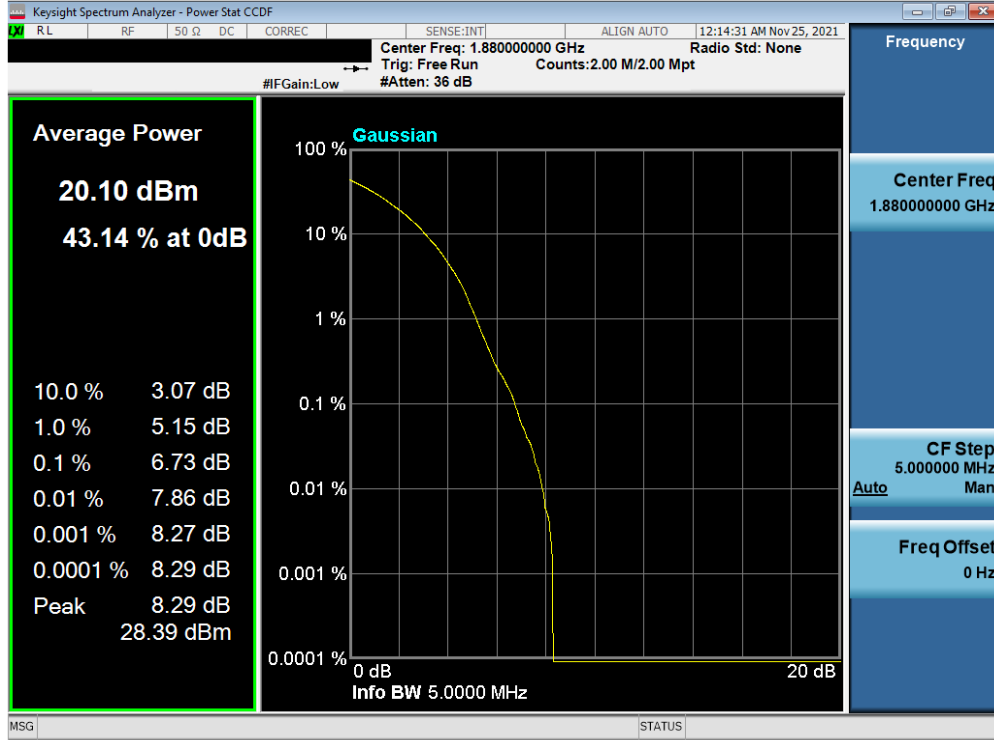


Plot 7-269. PAR Plot (NR Band n2 - 5.0MHz DFT-s-OFDM 16-QAM - Full RB)

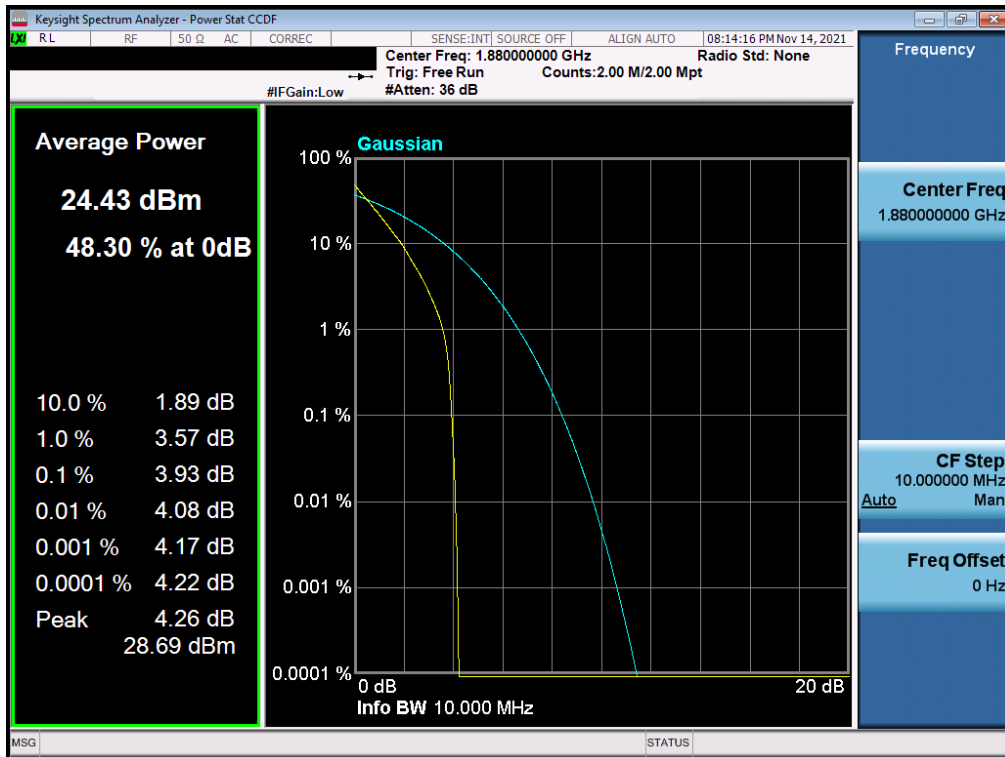


Plot 7-270. PAR Plot (NR Band n2 - 5.0MHz DFT-s-OFDM 64-QAM - Full RB)

FCC ID: BCGA2589	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C211150079-02.BCG	Test Dates: 12/2/2021 - 1/30/2022	EUT Type: Tablet Device	Page 156 of 210

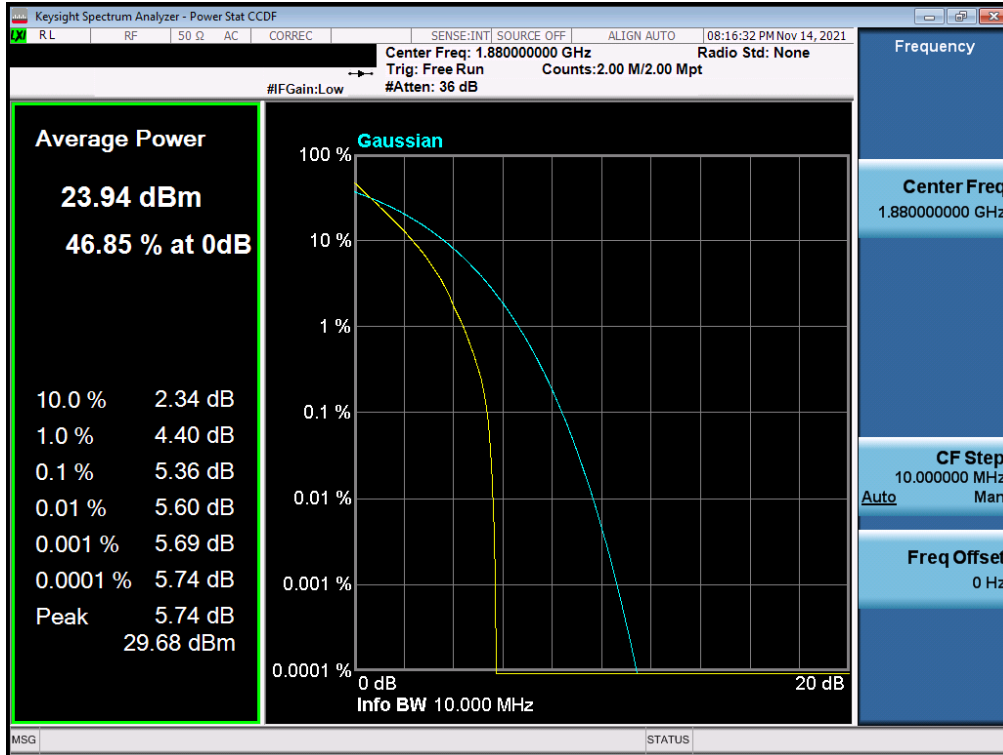


Plot 7-271. PAR Plot (NR Band n2 - 5.0MHz DFT-s-OFDM 256-QAM - Full RB)

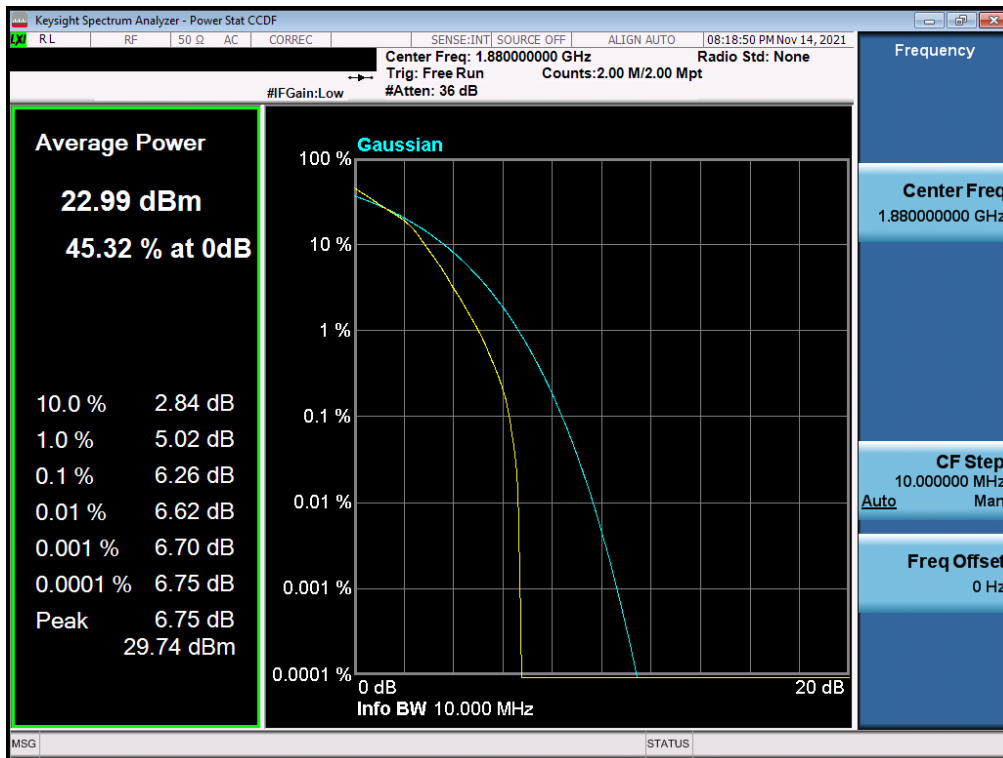


Plot 7-272. PAR Plot (NR Band n2 - 10.0MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

FCC ID: BCGA2589	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C211150079-02.BCG	Test Dates: 12/2/2021 - 1/30/2022	EUT Type: Tablet Device	Page 157 of 210

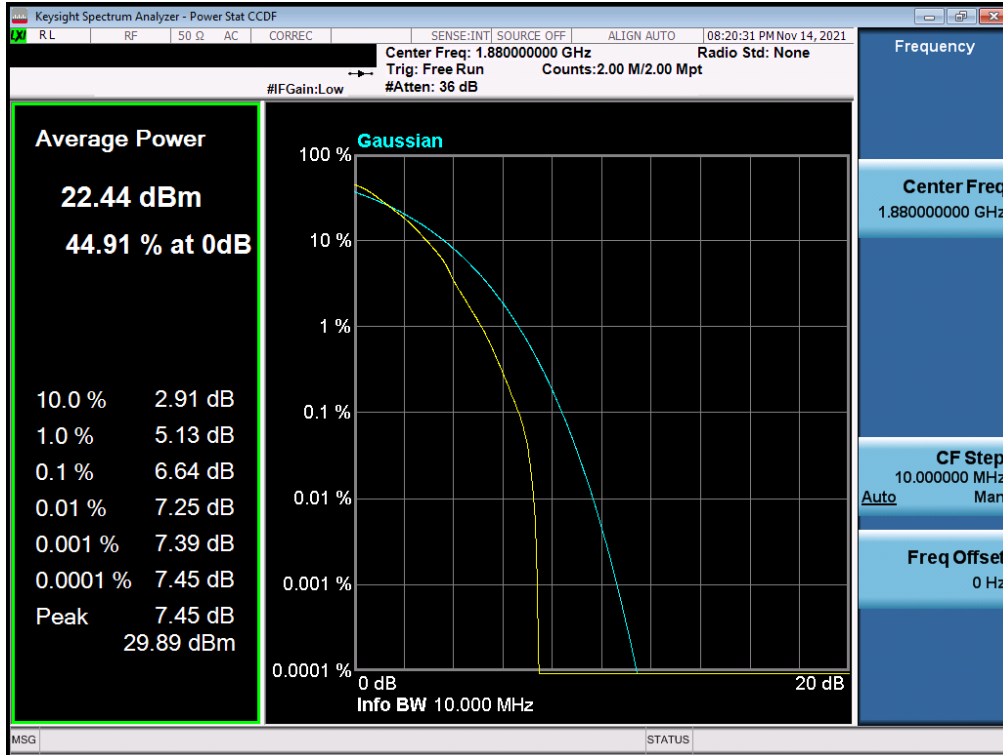


Plot 7-273. PAR Plot (NR Band n2 - 10.0MHz DFT-s-OFDM QPSK - Full RB)

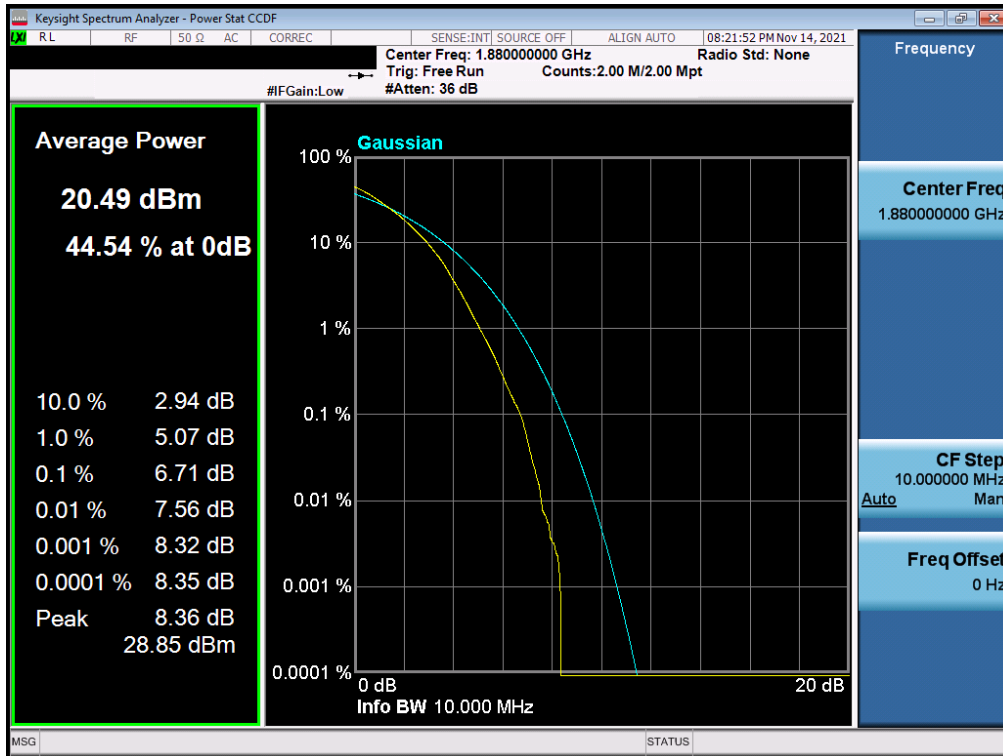


Plot 7-274. PAR Plot (NR Band n2 - 10.0MHz DFT-s-OFDM 16-QAM - Full RB)

FCC ID: BCGA2589	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C211150079-02.BCG	Test Dates: 12/2/2021 - 1/30/2022	EUT Type: Tablet Device	Page 158 of 210

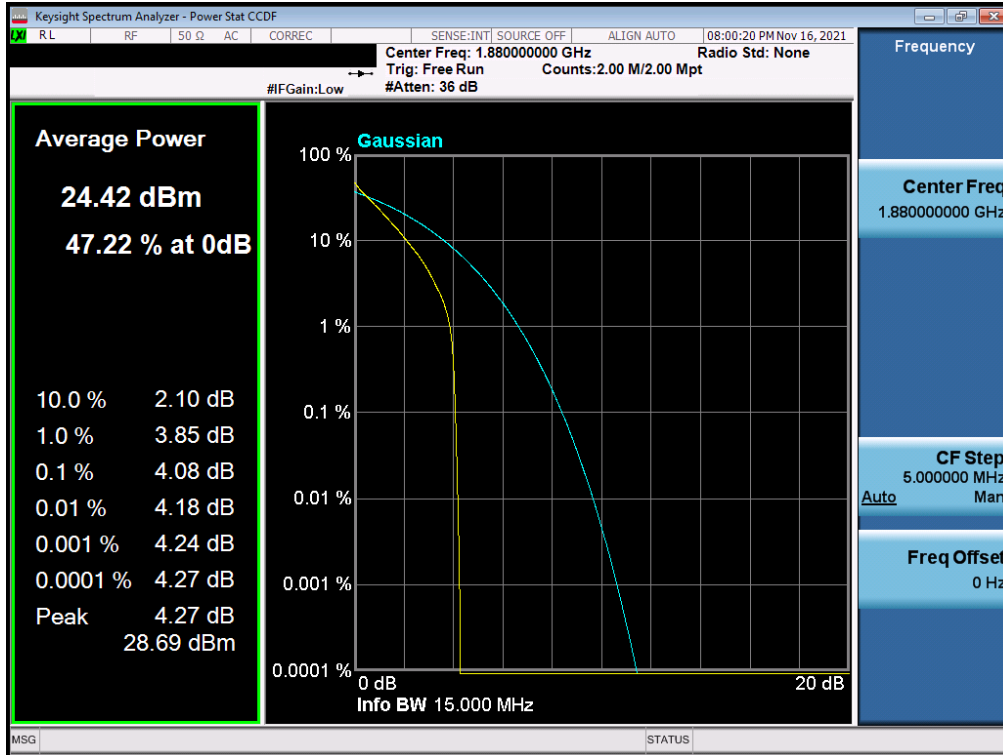


Plot 7-275. PAR Plot (NR Band n2 - 10.0MHz DFT-s-OFDM 64-QAM - Full RB)

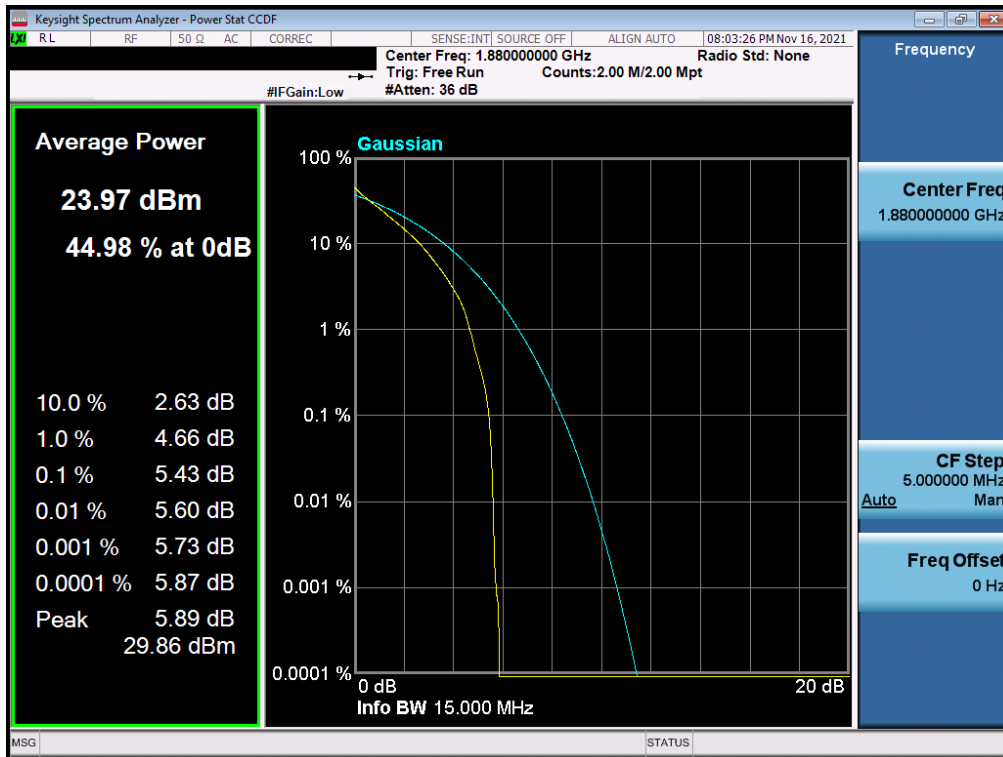


Plot 7-276. PAR Plot (NR Band n2 - 10.0MHz DFT-s-OFDM 256-QAM - Full RB)

FCC ID: BCGA2589	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C211150079-02.BCG	Test Dates: 12/2/2021 - 1/30/2022	EUT Type: Tablet Device	Page 159 of 210

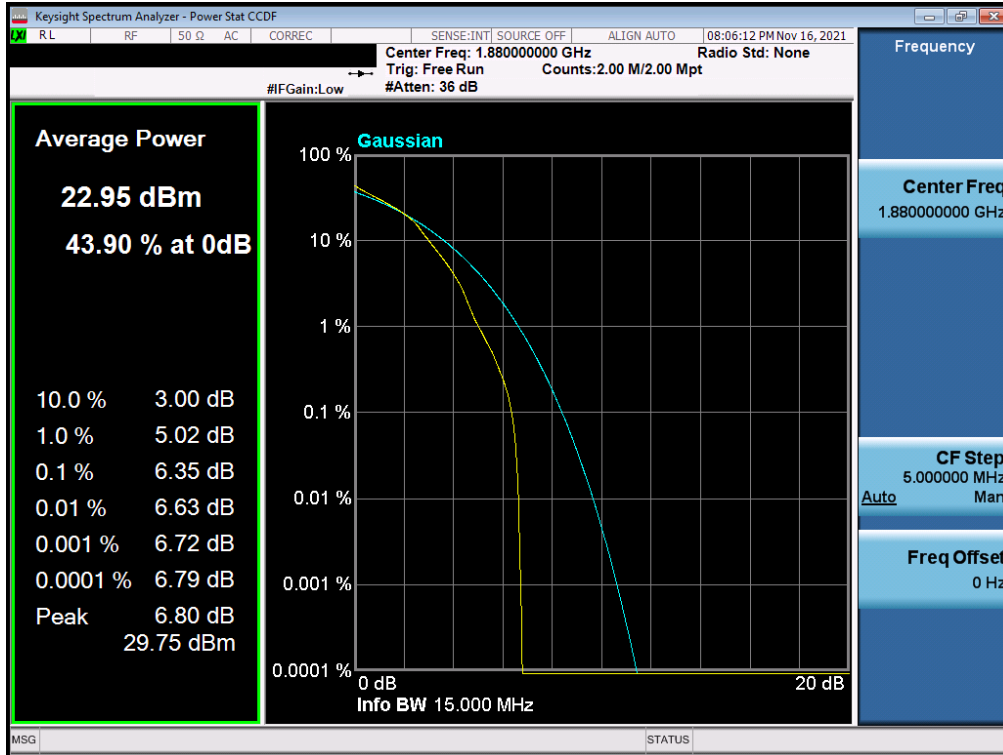


Plot 7-277. PAR Plot (NR Band n2 - 15.0MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

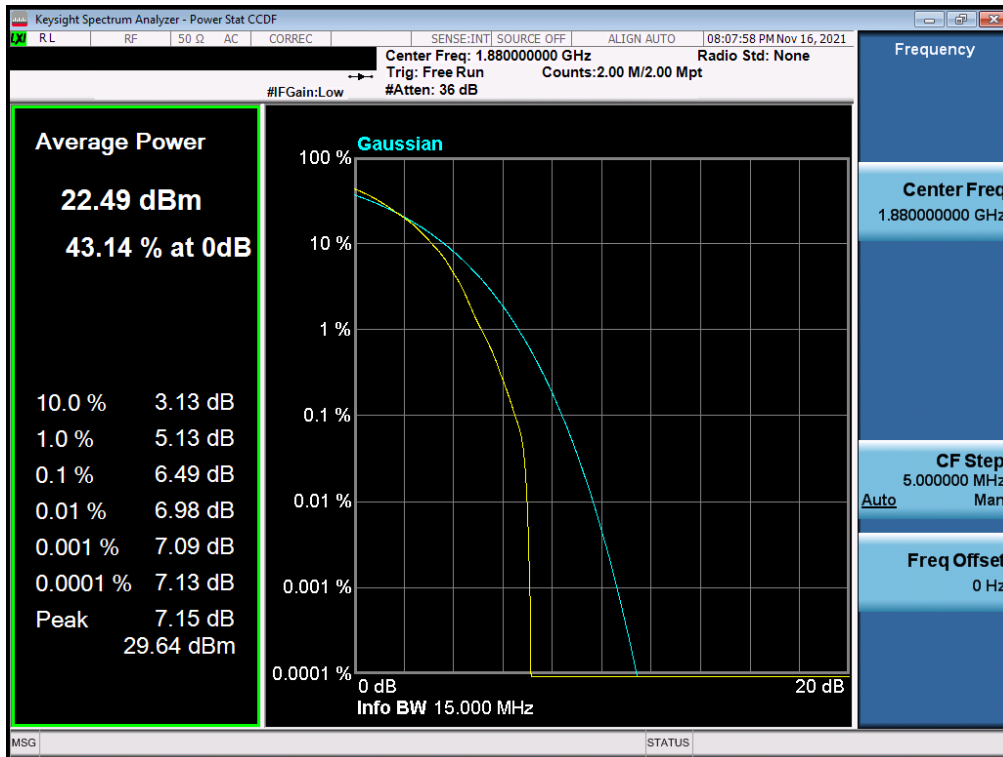


Plot 7-278. PAR Plot (NR Band n2 - 15.0MHz DFT-s-OFDM QPSK - Full RB)

FCC ID: BCGA2589	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C211150079-02.BCG	Test Dates: 12/2/2021 - 1/30/2022	EUT Type: Tablet Device	Page 160 of 210

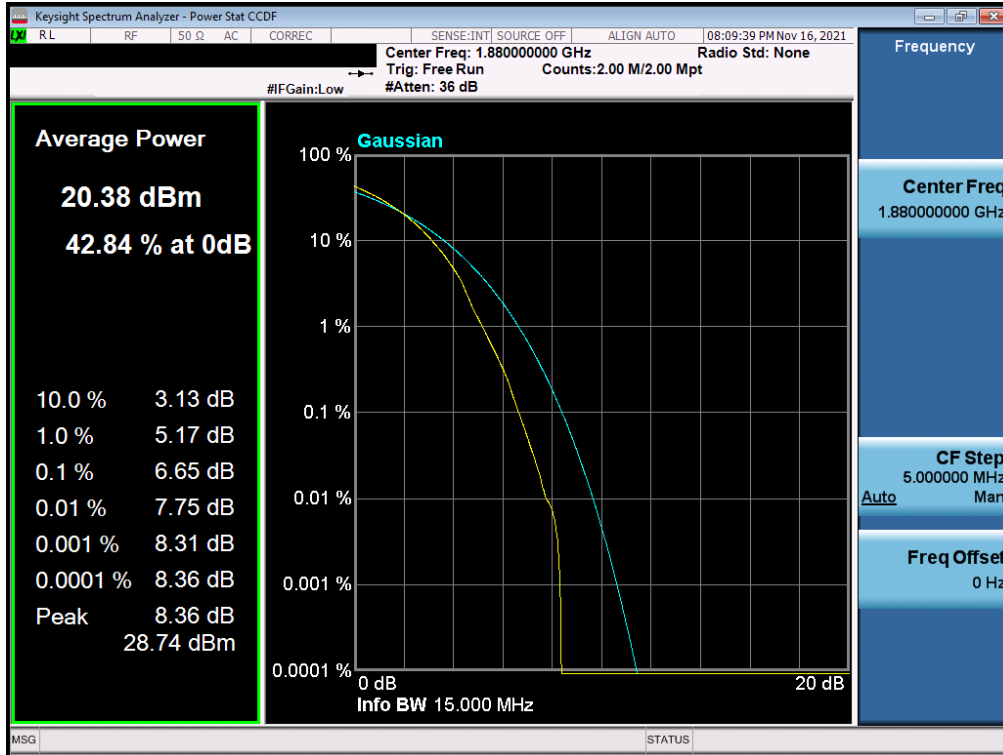


Plot 7-279. PAR Plot (NR Band n2 - 15.0MHz DFT-s-OFDM 16-QAM - Full RB)

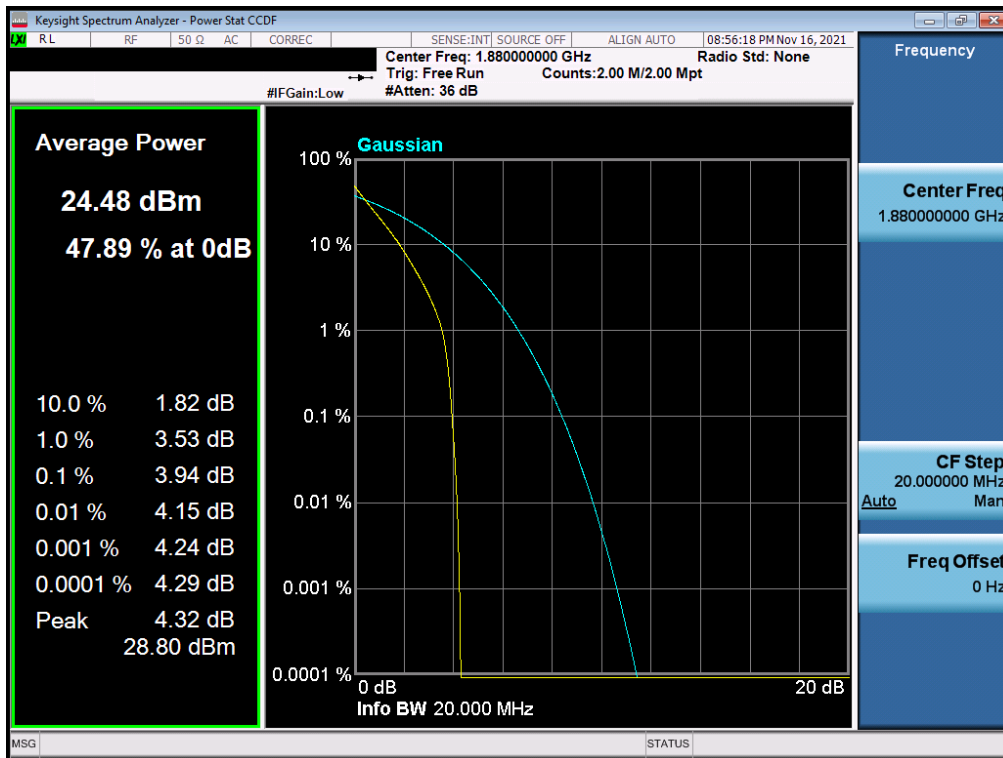


Plot 7-280. PAR Plot (NR Band n2 - 15.0MHz DFT-s-OFDM 64-QAM - Full RB)

FCC ID: BCGA2589	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C211150079-02.BCG	Test Dates: 12/2/2021 - 1/30/2022	EUT Type: Tablet Device	Page 161 of 210

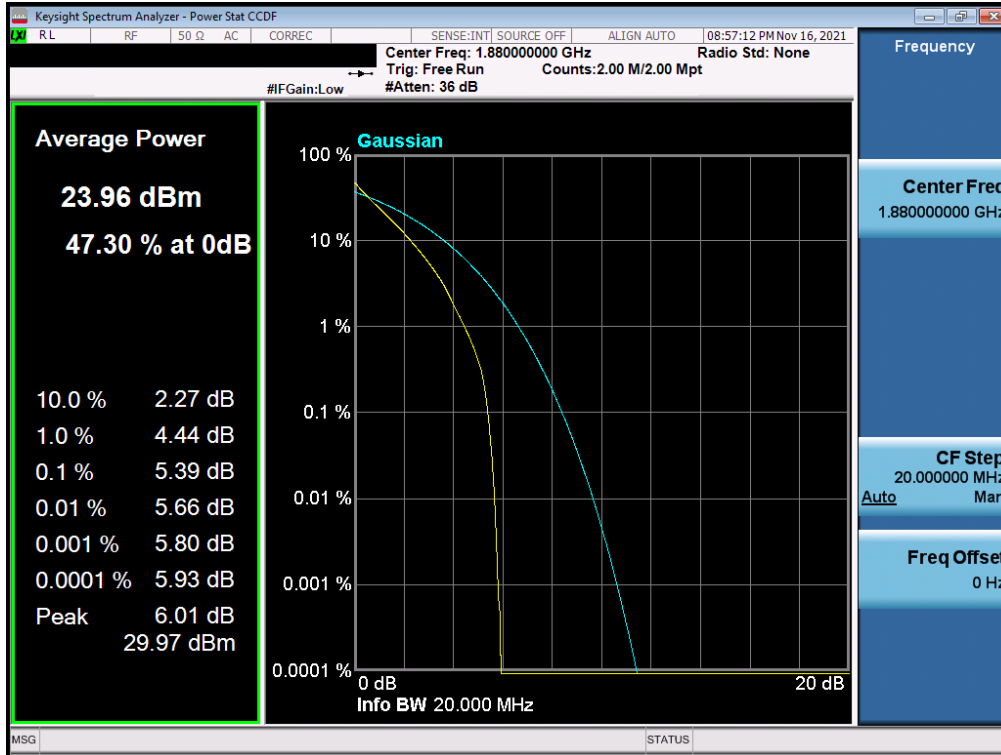


Plot 7-281. PAR Plot (NR Band n2 - 15.0MHz DFT-s-OFDM 256-QAM - Full RB)

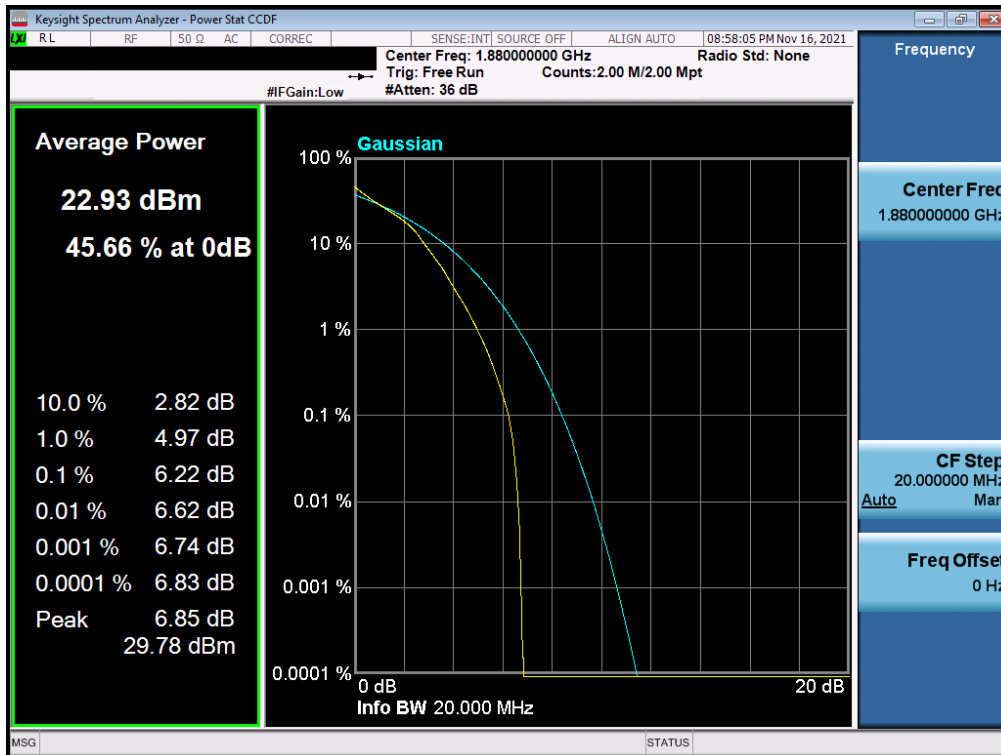


Plot 7-282. PAR Plot (NR Band n2 - 20.0MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

FCC ID: BCGA2589	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C211150079-02.BCG	Test Dates: 12/2/2021 - 1/30/2022	EUT Type: Tablet Device	Page 162 of 210

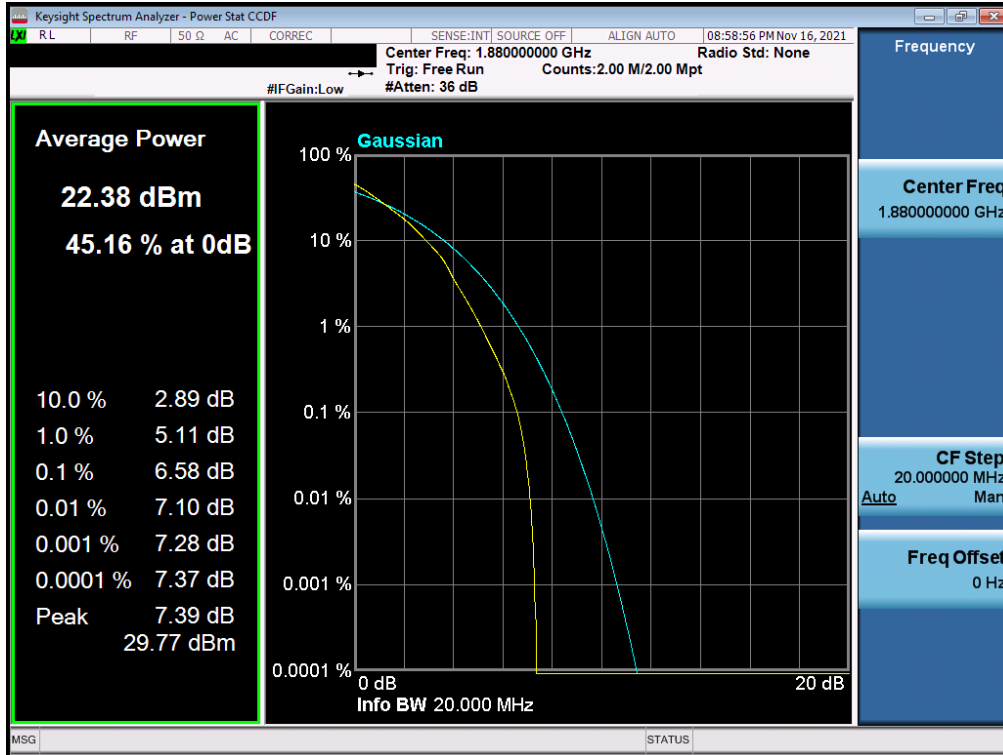


Plot 7-283. PAR Plot (NR Band n2 - 20.0MHz DFT-s-OFDM QPSK - Full RB)

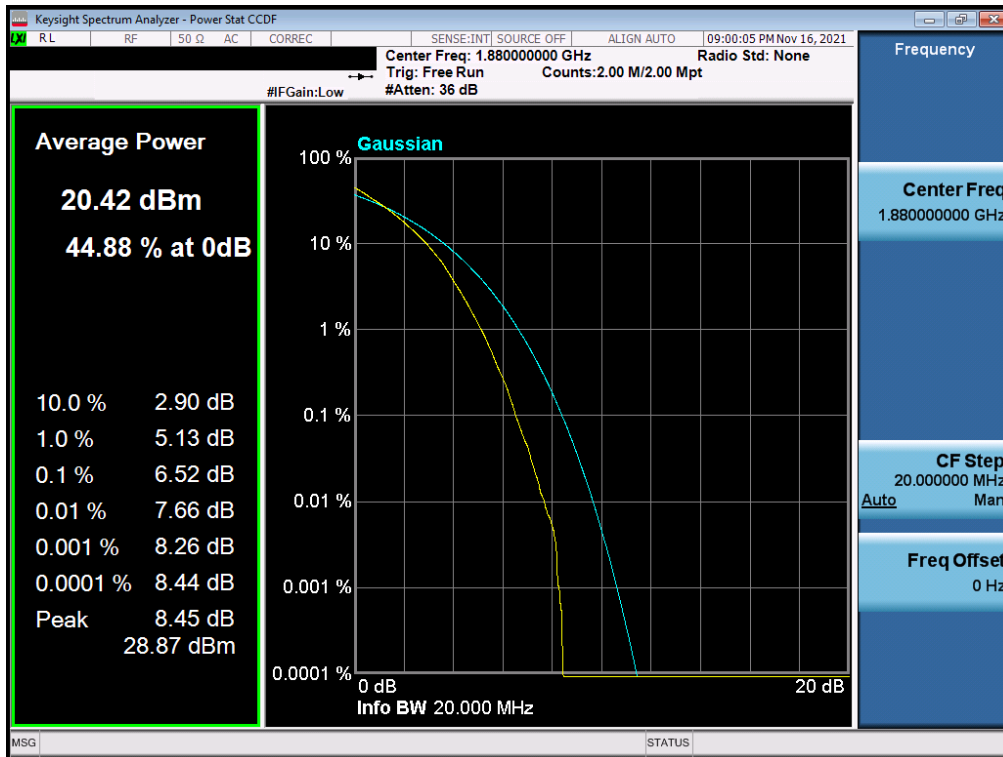


Plot 7-284. PAR Plot (NR Band n2 - 20.0MHz DFT-s-OFDM 16-QAM - Full RB)

FCC ID: BCGA2589	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C211150079-02.BCG	Test Dates: 12/2/2021 - 1/30/2022	EUT Type: Tablet Device	Page 163 of 210



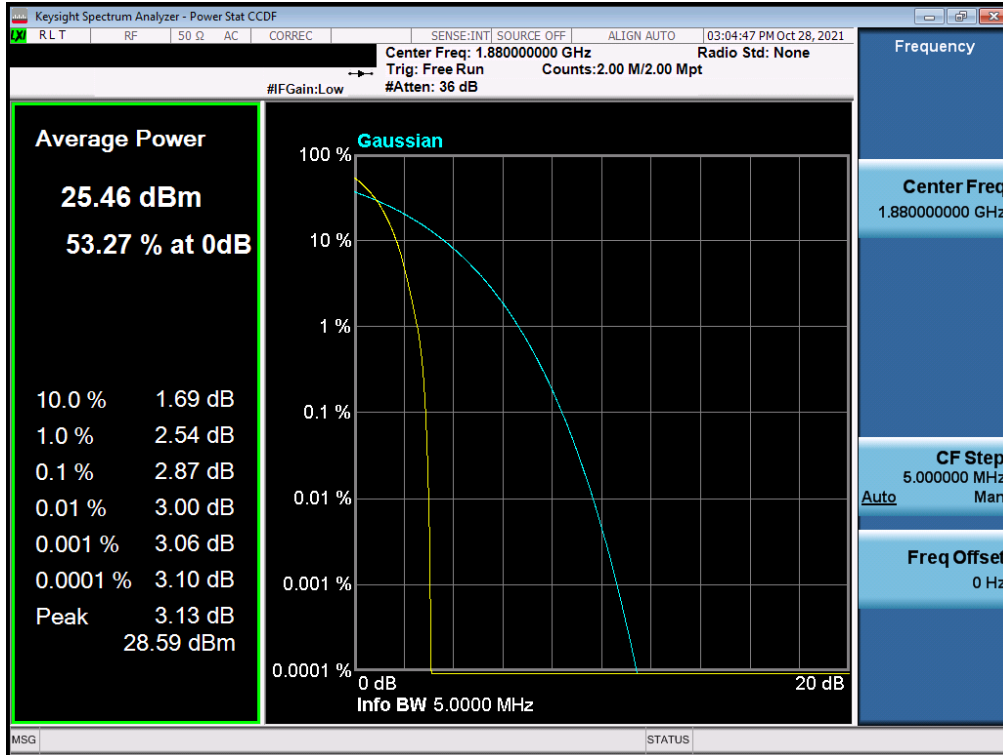
Plot 7-285. PAR Plot (NR Band n2 - 20.0MHz DFT-s-OFDM 64-QAM - Full RB)



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

FCC ID: BCGA2589	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C211150079-02.BCG	Test Dates: 12/2/2021 - 1/30/2022	EUT Type: Tablet Device	Page 164 of 210

WCDMA PCS



Plot 7-287. PAR Plot (WCDMA, Ch. 9400)

FCC ID: BCGA2589	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C211150079-02.BCG	Test Dates: 12/2/2021 - 1/30/2022	EUT Type: Tablet Device	Page 165 of 210

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.

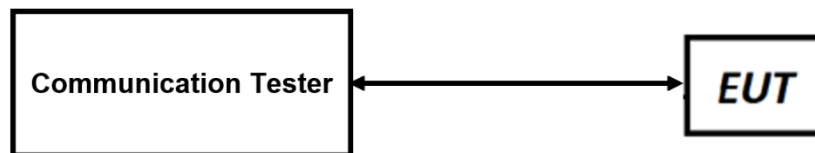



Figure 7-5. EIRP Measurement Setup

FCC ID: BCGA2589	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-02.BCG	Test Dates: 12/2/2021 - 1/30/2022	EUT Type: Tablet Device	Page 166 of 210

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 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".


FCC ID: BCGA2589	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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7.6.1 Antenna 4 – 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	0.60	1 / 5	25.19	25.79	0.379	33.01	-7.22
		1882.5	0.60	1 / 3	25.29	25.89	0.388	33.01	-7.12
		1914.3	0.60	1 / 3	25.40	26.00	0.398	33.01	-7.01
	16-QAM	1914.3	0.60	1 / 5	24.46	25.06	0.321	33.01	-7.95
	64-QAM	1914.3	0.60	1 / 3	23.79	24.39	0.275	33.01	-8.62
	256-QAM	1882.5	0.60	1 / 3	20.83	21.43	0.139	33.01	-11.58
3 MHz	QPSK	1851.5	0.60	1 / 14	25.25	25.85	0.385	33.01	-7.16
		1882.5	0.60	1 / 14	25.37	25.97	0.395	33.01	-7.04
		1913.5	0.60	1 / 14	25.28	25.88	0.387	33.01	-7.13
	16-QAM	1913.5	0.60	1 / 7	24.66	25.26	0.336	33.01	-7.75
	64-QAM	1913.5	0.60	1 / 14	24.01	24.61	0.289	33.01	-8.40
	256-QAM	1913.5	0.60	1 / 7	20.96	21.56	0.143	33.01	-11.45
5 MHz	QPSK	1852.5	0.60	1 / 12	25.37	25.97	0.395	33.01	-7.04
		1882.5	0.60	1 / 12	25.40	26.00	0.398	33.01	-7.01
		1912.5	0.60	1 / 24	25.19	25.79	0.379	33.01	-7.22
	16-QAM	1882.5	0.60	1 / 12	24.74	25.34	0.342	33.01	-7.67
	64-QAM	1852.5	0.60	1 / 12	23.74	24.34	0.272	33.01	-8.67
	256-QAM	1912.5	0.60	1 / 12	20.76	21.36	0.137	33.01	-11.65
10 MHz	QPSK	1855.0	0.60	1 / 49	25.21	25.81	0.381	33.01	-7.20
		1882.5	0.60	1 / 49	25.30	25.90	0.389	33.01	-7.11
		1910.0	0.60	1 / 49	25.20	25.80	0.380	33.01	-7.21
	16-QAM	1910.0	0.60	1 / 49	24.61	25.21	0.332	33.01	-7.80
	64-QAM	1910.0	0.60	1 / 49	23.87	24.47	0.280	33.01	-8.54
	256-QAM	1910.0	0.60	1 / 49	20.86	21.46	0.140	33.01	-11.55
15 MHz	QPSK	1857.5	0.60	1 / 37	25.39	25.99	0.397	33.01	-7.02
		1882.5	0.60	1 / 37	25.40	26.00	0.398	33.01	-7.01
		1907.5	0.60	1 / 37	25.28	25.88	0.387	33.01	-7.13
	16-QAM	1907.5	0.60	1 / 37	24.65	25.25	0.335	33.01	-7.76
	64-QAM	1907.5	0.60	1 / 37	24.02	24.62	0.290	33.01	-8.39
	256-QAM	1907.5	0.60	1 / 37	20.98	21.58	0.144	33.01	-11.43
20 MHz	QPSK	1860.0	0.60	1 / 50	25.33	25.93	0.392	33.01	-7.08
		1882.5	0.60	1 / 50	25.19	25.79	0.379	33.01	-7.22
		1905.0	0.60	1 / 50	25.40	26.00	0.398	33.01	-7.01
	16-QAM	1905.0	0.60	1 / 0	24.60	25.20	0.331	33.01	-7.81
	64-QAM	1882.5	0.60	1 / 50	24.14	24.74	0.298	33.01	-8.27
	256-QAM	1882.5	0.60	1 / 50	20.87	21.47	0.140	33.01	-11.54


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

FCC ID: BCGA2589		PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C211150079-02.BCG	Test Dates: 12/2/2021 - 1/30/2022	EUT Type: Tablet Device		Page 168 of 210

LTE Band 2

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	1850.7	0.60	1 / 3	25.20	25.80	0.380	33.01	-7.21
		1880.0	0.60	1 / 3	25.29	25.89	0.388	33.01	-7.12
		1909.3	0.60	1 / 3	25.40	26.00	0.398	33.01	-7.01
	16-QAM	1850.7	0.60	1 / 3	24.42	25.02	0.318	33.01	-7.99
	64-QAM	1909.3	0.60	1 / 0	23.76	24.36	0.273	33.01	-8.65
	256-QAM	1880.0	0.60	1 / 3	20.87	21.47	0.140	33.01	-11.54
3 MHz	QPSK	1851.5	0.60	1 / 14	25.24	25.84	0.384	33.01	-7.17
		1880.0	0.60	1 / 14	25.36	25.96	0.394	33.01	-7.05
		1908.5	0.60	1 / 14	25.28	25.88	0.387	33.01	-7.13
	16-QAM	1908.5	0.60	1 / 7	24.62	25.22	0.333	33.01	-7.79
	64-QAM	1908.5	0.60	1 / 14	24.00	24.60	0.288	33.01	-8.41
	256-QAM	1908.5	0.60	1 / 7	21.04	21.64	0.146	33.01	-11.37
5 MHz	QPSK	1852.5	0.60	1 / 24	25.28	25.88	0.387	33.01	-7.13
		1880.0	0.60	1 / 24	25.40	26.00	0.398	33.01	-7.01
		1907.5	0.60	1 / 24	25.21	25.81	0.381	33.01	-7.20
	16-QAM	1880.0	0.60	1 / 24	24.73	25.33	0.341	33.01	-7.68
	64-QAM	1852.5	0.60	1 / 24	23.70	24.30	0.269	33.01	-8.71
	256-QAM	1907.5	0.60	1 / 12	20.80	21.40	0.138	33.01	-11.61
10 MHz	QPSK	1855.0	0.60	1 / 49	25.28	25.88	0.387	33.01	-7.13
		1880.0	0.60	1 / 49	25.36	25.96	0.394	33.01	-7.05
		1905.0	0.60	1 / 0	25.25	25.85	0.385	33.01	-7.16
	16-QAM	1905.0	0.60	1 / 0	24.60	25.20	0.331	33.01	-7.81
	64-QAM	1905.0	0.60	1 / 49	23.88	24.48	0.281	33.01	-8.53
	256-QAM	1905.0	0.60	1 / 49	20.90	21.50	0.141	33.01	-11.51
15 MHz	QPSK	1857.5	0.60	1 / 37	25.38	25.98	0.396	33.01	-7.03
		1880.0	0.60	1 / 37	25.40	26.00	0.398	33.01	-7.01
		1902.5	0.60	1 / 37	25.29	25.89	0.388	33.01	-7.12
	16-QAM	1902.5	0.60	1 / 37	24.68	25.28	0.337	33.01	-7.73
	64-QAM	1902.5	0.60	1 / 37	23.99	24.59	0.288	33.01	-8.42
	256-QAM	1902.5	0.60	1 / 37	20.98	21.58	0.144	33.01	-11.43
20 MHz	QPSK	1860.0	0.60	1 / 50	25.39	25.99	0.397	33.01	-7.02
		1880.0	0.60	1 / 50	25.20	25.80	0.380	33.01	-7.21
		1900.0	0.60	1 / 50	25.40	26.00	0.398	33.01	-7.01
	16-QAM	1900.0	0.60	1 / 50	24.66	25.26	0.336	33.01	-7.75
	64-QAM	1880.0	0.60	1 / 50	24.17	24.77	0.300	33.01	-8.24
	256-QAM	1880.0	0.60	1 / 50	20.92	21.52	0.142	33.01	-11.49


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

FCC ID: BCGA2589		PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C211150079-02.BCG	Test Dates: 12/2/2021 - 1/30/2022	EUT Type: Tablet Device		Page 169 of 210

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	0.60	1 / 23	25.16	25.76	0.377	33.01	-7.25
		1882.5	0.60	1 / 0	25.31	25.91	0.390	33.01	-7.10
		1912.5	0.60	1 / 12	25.40	26.00	0.398	33.01	-7.01
	QPSK	1852.5	0.60	1 / 0	25.37	25.97	0.395	33.01	-7.04
		1882.5	0.60	1 / 0	25.24	25.84	0.384	33.01	-7.17
		1912.5	0.60	1 / 0	25.28	25.88	0.387	33.01	-7.13
	16-QAM	1852.5	0.60	1 / 0	24.43	25.03	0.318	33.01	-7.98
64-QAM	1912.5	0.60	1 / 12	22.65	23.25	0.211	33.01	-9.76	
256-QAM	1852.5	0.60	1 / 23	20.42	21.02	0.126	33.01	-11.99	
10 MHz	π/2 BPSK	1855.0	0.60	1 / 48	25.09	25.69	0.371	33.01	-7.32
		1882.5	0.60	1 / 0	25.20	25.80	0.380	33.01	-7.21
		1910.0	0.60	1 / 48	25.40	26.00	0.398	33.01	-7.01
	QPSK	1855.0	0.60	1 / 0	25.32	25.92	0.391	33.01	-7.09
		1882.5	0.60	1 / 48	25.16	25.76	0.376	33.01	-7.25
		1910.0	0.60	1 / 25	25.28	25.88	0.387	33.01	-7.13
	16-QAM	1910.0	0.60	1 / 25	24.40	25.00	0.316	33.01	-8.01
64-QAM	1882.5	0.60	1 / 48	23.04	23.64	0.231	33.01	-9.37	
256-QAM	1855.0	0.60	1 / 25	20.62	21.22	0.132	33.01	-11.80	
15 MHz	π/2 BPSK	1857.5	0.60	1 / 73	25.39	25.99	0.397	33.01	-7.02
		1882.5	0.60	1 / 0	25.04	25.64	0.366	33.01	-7.37
		1907.5	0.60	1 / 37	25.11	25.71	0.372	33.01	-7.30
	QPSK	1857.5	0.60	1 / 73	25.37	25.97	0.395	33.01	-7.04
		1882.5	0.60	1 / 0	25.15	25.75	0.375	33.01	-7.26
		1907.5	0.60	1 / 0	25.40	26.00	0.398	33.01	-7.01
	16-QAM	1882.5	0.60	1 / 73	24.53	25.13	0.326	33.01	-7.88
64-QAM	1882.5	0.60	1 / 37	22.70	23.30	0.214	33.01	-9.71	
256-QAM	1907.5	0.60	1 / 73	20.50	21.10	0.129	33.01	-11.91	
20 MHz	π/2 BPSK	1860.0	0.60	1 / 0	25.24	25.84	0.384	33.01	-7.17
		1882.5	0.60	1 / 50	25.17	25.77	0.378	33.01	-7.24
		1905.0	0.60	1 / 50	25.21	25.81	0.381	33.01	-7.20
	QPSK	1860.0	0.60	1 / 98	25.21	25.81	0.381	33.01	-7.20
		1882.5	0.60	1 / 0	25.38	25.98	0.396	33.01	-7.03
		1905.0	0.60	1 / 0	25.40	26.00	0.398	33.01	-7.01
	16-QAM	1860.0	0.60	1 / 0	24.17	24.77	0.300	33.01	-8.24
64-QAM	1860.0	0.60	1 / 50	22.99	23.59	0.228	33.01	-9.42	
256-QAM	1905.0	0.60	1 / 50	20.63	21.23	0.133	33.01	-11.78	
25 MHz	π/2 BPSK	1862.5	0.60	1 / 0	25.21	25.81	0.381	33.01	-7.20
		1882.5	0.60	1 / 66	25.32	25.92	0.391	33.01	-7.09
		1902.5	0.60	1 / 131	25.22	25.82	0.382	33.01	-7.19
	QPSK	1862.5	0.60	1 / 131	25.22	25.82	0.382	33.01	-7.19
		1882.5	0.60	1 / 0	25.40	26.00	0.398	33.01	-7.01
		1902.5	0.60	1 / 0	25.28	25.88	0.387	33.01	-7.13
	16-QAM	1882.5	0.60	1 / 0	24.52	25.12	0.325	33.01	-7.89
64-QAM	1862.5	0.60	1 / 66	23.23	23.83	0.242	33.01	-9.18	
256-QAM	1882.5	0.60	1 / 131	20.75	21.35	0.136	33.01	-11.66	
30 MHz	π/2 BPSK	1865.0	0.60	1 / 158	25.37	25.97	0.396	33.01	-7.04
		1882.5	0.60	1 / 158	25.20	25.80	0.380	33.01	-7.21
		1900.0	0.60	1 / 158	25.23	25.83	0.383	33.01	-7.18
	QPSK	1865.0	0.60	1 / 158	25.28	25.88	0.387	33.01	-7.13
		1882.5	0.60	1 / 158	25.38	25.98	0.396	33.01	-7.03
		1900.0	0.60	1 / 0	25.40	26.00	0.398	33.01	-7.01
	16-QAM	1882.5	0.60	1 / 0	24.54	25.14	0.327	33.01	-7.87
64-QAM	1865.0	0.60	1 / 80	23.06	23.66	0.232	33.01	-9.35	
256-QAM	1865.0	0.60	1 / 158	20.71	21.31	0.135	33.01	-11.70	
40 MHz	π/2 BPSK	1870.0	0.60	1 / 214	25.32	25.92	0.391	33.01	-7.09
		1882.5	0.60	1 / 0	25.35	25.95	0.393	33.01	-7.06
		1895.0	0.60	1 / 0	25.38	25.98	0.396	33.01	-7.03
	QPSK	1870.0	0.60	1 / 0	25.24	25.84	0.384	33.01	-7.17
		1882.5	0.60	1 / 214	25.35	25.95	0.394	33.01	-7.06
		1895.0	0.60	1 / 214	25.30	25.90	0.389	33.01	-7.11
	16-QAM	1870.0	0.60	1 / 214	24.39	24.99	0.315	33.01	-8.02
64-QAM	1870.0	0.60	1 / 214	23.03	23.63	0.231	33.01	-9.38	
256-QAM	1870.0	0.60	1 / 214	21.15	21.75	0.150	33.01	-11.26	


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

FCC ID: BCGA2589		PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C211150079-02.BCG	Test Dates: 12/2/2021 - 1/30/2022	EUT Type: Tablet Device		Page 170 of 210

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	π/2 BPSK	1852.5	0.60	1 / 23	25.35	25.95	0.393	33.01	-7.06
		1880.0	0.60	1 / 12	25.15	25.75	0.376	33.01	-7.26
		1907.5	0.60	1 / 12	25.15	25.75	0.376	33.01	-7.26
	QPSK	1852.5	0.60	1 / 12	25.40	26.00	0.398	33.01	-7.01
		1880.0	0.60	1 / 12	25.32	25.92	0.390	33.01	-7.09
		1907.5	0.60	1 / 23	25.35	25.95	0.393	33.01	-7.06
	16-QAM	1907.5	0.60	1 / 0	24.35	24.95	0.313	33.01	-8.06
64-QAM	1852.5	0.60	1 / 23	23.28	23.88	0.244	33.01	-9.13	
256-QAM	1907.5	0.60	1 / 12	20.68	21.28	0.134	33.01	-11.73	
10 MHz	π/2 BPSK	1855.0	0.60	1 / 0	25.39	25.99	0.397	33.01	-7.03
		1880.0	0.60	1 / 48	25.29	25.89	0.388	33.01	-7.12
		1905.0	0.60	1 / 25	25.21	25.81	0.381	33.01	-7.20
	QPSK	1855.0	0.60	1 / 25	25.39	25.99	0.397	33.01	-7.02
		1880.0	0.60	1 / 25	25.40	26.00	0.398	33.01	-7.01
		1905.0	0.60	1 / 0	25.23	25.83	0.383	33.01	-7.18
	16-QAM	1855.0	0.60	1 / 0	24.63	25.23	0.333	33.01	-7.78
64-QAM	1855.0	0.60	1 / 48	23.22	23.82	0.241	33.01	-9.19	
256-QAM	1880.0	0.60	1 / 48	20.99	21.59	0.144	33.01	-11.42	
15 MHz	π/2 BPSK	1857.5	0.60	1 / 0	25.35	25.95	0.393	33.01	-7.06
		1880.0	0.60	1 / 73	25.25	25.85	0.384	33.01	-7.16
		1902.5	0.60	1 / 0	25.35	25.95	0.394	33.01	-7.06
	QPSK	1857.5	0.60	1 / 37	25.40	26.00	0.398	33.01	-7.01
		1880.0	0.60	1 / 73	25.40	26.00	0.398	33.01	-7.01
		1902.5	0.60	1 / 73	25.37	25.97	0.395	33.01	-7.04
	16-QAM	1857.5	0.60	1 / 0	24.74	25.34	0.342	33.01	-7.67
64-QAM	1857.5	0.60	1 / 0	23.17	23.77	0.238	33.01	-9.24	
256-QAM	1857.5	0.60	1 / 0	20.83	21.43	0.139	33.01	-11.58	
20 MHz	π/2 BPSK	1860.0	0.60	1 / 50	25.22	25.82	0.382	33.01	-7.19
		1880.0	0.60	1 / 98	25.31	25.91	0.390	33.01	-7.10
		1900.0	0.60	1 / 50	25.10	25.70	0.371	33.01	-7.31
	QPSK	1860.0	0.60	1 / 0	25.34	25.94	0.393	33.01	-7.07
		1880.0	0.60	1 / 50	25.40	26.00	0.398	33.01	-7.01
		1900.0	0.60	1 / 50	25.19	25.79	0.379	33.01	-7.22
	16-QAM	1900.0	0.60	1 / 50	24.69	25.29	0.338	33.01	-7.72
64-QAM	1880.0	0.60	1 / 0	22.95	23.55	0.227	33.01	-9.46	
256-QAM	1860.0	0.60	1 / 50	20.72	21.32	0.136	33.01	-11.69	


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

FCC ID: BCGA2589		PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C211150079-02.BCG	Test Dates: 12/2/2021 - 1/30/2022	EUT Type: Tablet Device		Page 171 of 210

WCDMA PCS

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1852.40	WCDMA1900	25.38	0.60	25.98	0.396	33.01	-7.03
1880.00	WCDMA1900	25.34	0.60	25.94	0.393	33.01	-7.07
1907.60	WCDMA1900	25.33	0.60	25.93	0.392	33.01	-7.08

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


FCC ID: BCGA2589		PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-02.BCG	Test Dates: 12/2/2021 - 1/30/2022	EUT Type: Tablet Device		Page 172 of 210

7.6.2 Antenna 2a – 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	2.20	1 / 3	23.77	25.97	0.395	33.01	-7.04
		1882.5	2.20	1 / 5	23.69	25.89	0.388	33.01	-7.12
		1914.3	2.20	1 / 3	23.90	26.10	0.407	33.01	-6.91
	16-QAM	1882.5	2.20	1 / 5	23.07	25.27	0.337	33.01	-7.74
	64-QAM	1882.5	2.20	1 / 3	22.46	24.66	0.292	33.01	-8.35
256-QAM	1850.7	2.20	1 / 3	18.98	21.18	0.131	33.01	-11.83	
3 MHz	QPSK	1851.5	2.20	1 / 14	23.90	26.10	0.407	33.01	-6.91
		1882.5	2.20	1 / 14	23.81	26.01	0.399	33.01	-7.00
		1913.5	2.20	1 / 7	23.89	26.09	0.406	33.01	-6.92
	16-QAM	1913.5	2.20	1 / 7	23.50	25.70	0.372	33.01	-7.31
	64-QAM	1882.5	2.20	1 / 14	22.65	24.85	0.305	33.01	-8.16
256-QAM	1913.5	2.20	1 / 7	19.01	21.21	0.132	33.01	-11.80	
5 MHz	QPSK	1852.5	2.20	1 / 12	23.68	25.88	0.387	33.01	-7.13
		1882.5	2.20	1 / 12	23.83	26.03	0.401	33.01	-6.98
		1912.5	2.20	1 / 24	23.90	26.10	0.407	33.01	-6.91
	16-QAM	1912.5	2.20	1 / 12	23.33	25.53	0.357	33.01	-7.48
	64-QAM	1882.5	2.20	1 / 12	22.57	24.77	0.300	33.01	-8.24
256-QAM	1882.5	2.20	1 / 24	19.13	21.33	0.136	33.01	-11.68	
10 MHz	QPSK	1855.0	2.20	1 / 25	23.90	26.10	0.407	33.01	-6.91
		1882.5	2.20	1 / 25	23.72	25.92	0.391	33.01	-7.09
		1910.0	2.20	1 / 49	23.78	25.98	0.396	33.01	-7.03
	16-QAM	1882.5	2.20	1 / 49	23.20	25.40	0.347	33.01	-7.61
	64-QAM	1882.5	2.20	1 / 49	22.70	24.90	0.309	33.01	-8.11
256-QAM	1910.0	2.20	1 / 49	18.78	20.98	0.125	33.01	-12.03	
15 MHz	QPSK	1857.5	2.20	1 / 37	23.90	26.10	0.407	33.01	-6.91
		1882.5	2.20	1 / 37	23.81	26.01	0.399	33.01	-7.00
		1907.5	2.20	1 / 37	23.77	25.97	0.395	33.01	-7.04
	16-QAM	1882.5	2.20	1 / 37	23.30	25.50	0.355	33.01	-7.51
	64-QAM	1882.5	2.20	1 / 37	22.69	24.89	0.308	33.01	-8.12
256-QAM	1882.5	2.20	1 / 37	19.05	21.25	0.133	33.01	-11.76	
20 MHz	QPSK	1860.0	2.20	1 / 99	23.90	26.10	0.407	33.01	-6.91
		1882.5	2.20	1 / 50	23.86	26.06	0.404	33.01	-6.95
		1905.0	2.20	1 / 50	23.86	26.06	0.404	33.01	-6.95
	16-QAM	1882.5	2.20	1 / 99	22.95	25.15	0.327	33.01	-7.86
	64-QAM	1905.0	2.20	1 / 50	22.54	24.74	0.298	33.01	-8.27
256-QAM	1882.5	2.20	1 / 50	19.17	21.37	0.137	33.01	-11.64	


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

FCC ID: BCGA2589		PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C211150079-02.BCG	Test Dates: 12/2/2021 - 1/30/2022	EUT Type: Tablet Device		Page 173 of 210

LTE Band 2

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	1850.7	2.20	1 / 3	23.75	25.95	0.394	33.01	-7.06
		1880.0	2.20	1 / 3	23.62	25.82	0.382	33.01	-7.19
		1909.3	2.20	1 / 3	23.90	26.10	0.407	33.01	-6.91
	16-QAM	1880.0	2.20	1 / 3	23.08	25.28	0.337	33.01	-7.73
	64-QAM	1880.0	2.20	1 / 3	22.44	24.64	0.291	33.01	-8.37
	256-QAM	1909.3	2.20	1 / 3	19.14	21.34	0.136	33.01	-11.67
3 MHz	QPSK	1851.5	2.20	1 / 14	23.90	26.10	0.407	33.01	-6.91
		1880.0	2.20	1 / 14	23.82	26.02	0.400	33.01	-6.99
		1908.5	2.20	1 / 14	23.78	25.98	0.396	33.01	-7.03
	16-QAM	1880.0	2.20	1 / 7	23.29	25.49	0.354	33.01	-7.52
	64-QAM	1880.0	2.20	1 / 14	22.73	24.93	0.311	33.01	-8.08
	256-QAM	1908.5	2.20	1 / 7	18.80	21.00	0.126	33.01	-12.01
5 MHz	QPSK	1852.5	2.20	1 / 0	23.60	25.80	0.380	33.01	-7.21
		1880.0	2.20	1 / 24	23.76	25.96	0.394	33.01	-7.05
		1907.5	2.20	1 / 24	23.90	26.10	0.407	33.01	-6.91
	16-QAM	1907.5	2.20	1 / 24	23.24	25.44	0.350	33.01	-7.57
	64-QAM	1880.0	2.20	1 / 24	22.53	24.73	0.297	33.01	-8.28
	256-QAM	1880.0	2.20	1 / 12	19.23	21.43	0.139	33.01	-11.58
10 MHz	QPSK	1855.0	2.20	1 / 49	23.90	26.10	0.407	33.01	-6.91
		1880.0	2.20	1 / 49	23.67	25.87	0.386	33.01	-7.14
		1905.0	2.20	1 / 49	23.71	25.91	0.390	33.01	-7.10
	16-QAM	1880.0	2.20	1 / 49	23.15	25.35	0.343	33.01	-7.66
	64-QAM	1880.0	2.20	1 / 49	22.71	24.91	0.310	33.01	-8.10
	256-QAM	1905.0	2.20	1 / 49	18.77	20.97	0.125	33.01	-12.04
15 MHz	QPSK	1857.5	2.20	1 / 37	23.90	26.10	0.407	33.01	-6.91
		1880.0	2.20	1 / 37	23.79	25.99	0.397	33.01	-7.02
		1902.5	2.20	1 / 37	23.81	26.01	0.399	33.01	-7.00
	16-QAM	1880.0	2.20	1 / 37	23.33	25.53	0.357	33.01	-7.48
	64-QAM	1880.0	2.20	1 / 37	22.71	24.91	0.310	33.01	-8.10
	256-QAM	1880.0	2.20	1 / 37	19.11	21.31	0.135	33.01	-11.70
20 MHz	QPSK	1860.0	2.20	1 / 50	23.90	26.10	0.407	33.01	-6.91
		1880.0	2.20	1 / 50	23.87	26.07	0.405	33.01	-6.94
		1900.0	2.20	1 / 99	23.84	26.04	0.402	33.01	-6.97
	16-QAM	1880.0	2.20	1 / 50	22.95	25.15	0.327	33.01	-7.86
	64-QAM	1900.0	2.20	1 / 50	22.56	24.76	0.299	33.01	-8.25
	256-QAM	1880.0	2.20	1 / 50	19.21	21.41	0.138	33.01	-11.60


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

FCC ID: BCGA2589		PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C211150079-02.BCG	Test Dates: 12/2/2021 - 1/30/2022	EUT Type: Tablet Device		Page 174 of 210

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	2.20	1 / 12	23.89	26.09	0.406	33.01	-6.92
		1882.5	2.20	1 / 12	23.60	25.80	0.380	33.01	-7.21
		1912.5	2.20	1 / 0	23.90	26.10	0.407	33.01	-6.91
	QPSK	1852.5	2.20	1 / 23	23.55	25.75	0.376	33.01	-7.26
		1882.5	2.20	1 / 0	23.75	25.95	0.394	33.01	-7.06
		1912.5	2.20	1 / 23	23.84	26.04	0.402	33.01	-6.97
		16-QAM	1882.5	2.20	1 / 23	23.22	25.42	0.348	33.01
64-QAM	1852.5	2.20	1 / 23	21.55	23.75	0.237	33.01	-9.26	
256-QAM	1882.5	2.20	1 / 23	19.30	21.50	0.141	33.01	-11.51	
10 MHz	π/2 BPSK	1855.0	2.20	1 / 0	23.85	26.05	0.403	33.01	-6.96
		1882.5	2.20	1 / 0	23.80	26.00	0.398	33.01	-7.01
		1910.0	2.20	1 / 48	23.90	26.10	0.407	33.01	-6.91
	QPSK	1855.0	2.20	1 / 48	23.78	25.98	0.396	33.01	-7.03
		1882.5	2.20	1 / 25	23.79	25.99	0.398	33.01	-7.02
		1910.0	2.20	1 / 25	23.74	25.94	0.393	33.01	-7.07
		16-QAM	1910.0	2.20	1 / 0	23.31	25.51	0.355	33.01
64-QAM	1855.0	2.20	1 / 25	21.41	23.61	0.230	33.01	-9.40	
256-QAM	1882.5	2.20	1 / 48	19.50	21.70	0.148	33.01	-11.31	
15 MHz	π/2 BPSK	1857.5	2.20	1 / 37	23.90	26.10	0.407	33.01	-6.91
		1882.5	2.20	1 / 37	23.70	25.90	0.389	33.01	-7.11
		1907.5	2.20	1 / 0	23.89	26.09	0.406	33.01	-6.92
	QPSK	1857.5	2.20	1 / 73	23.67	25.87	0.386	33.01	-7.14
		1882.5	2.20	1 / 37	23.89	26.09	0.407	33.01	-6.92
		1907.5	2.20	1 / 0	23.89	26.09	0.407	33.01	-6.92
		16-QAM	1907.5	2.20	1 / 37	22.96	25.16	0.328	33.01
64-QAM	1857.5	2.20	1 / 37	21.29	23.49	0.224	33.01	-9.52	
256-QAM	1857.5	2.20	1 / 0	19.18	21.38	0.137	33.01	-11.64	
20 MHz	π/2 BPSK	1860.0	2.20	1 / 98	23.85	26.05	0.402	33.01	-6.96
		1882.5	2.20	1 / 50	23.81	26.01	0.399	33.01	-7.00
		1905.0	2.20	1 / 50	23.90	26.10	0.407	33.01	-6.91
	QPSK	1860.0	2.20	1 / 50	23.84	26.04	0.402	33.01	-6.97
		1882.5	2.20	1 / 98	23.85	26.05	0.403	33.01	-6.96
		1905.0	2.20	1 / 98	23.83	26.03	0.401	33.01	-6.98
		16-QAM	1882.5	2.20	1 / 0	23.39	25.59	0.362	33.01
64-QAM	1860.0	2.20	1 / 50	21.67	23.87	0.244	33.01	-9.14	
256-QAM	1860.0	2.20	1 / 0	19.44	21.64	0.146	33.01	-11.37	
25 MHz	π/2 BPSK	1862.5	2.20	1 / 131	23.83	26.03	0.401	33.01	-6.98
		1882.5	2.20	1 / 131	23.79	25.99	0.397	33.01	-7.02
		1902.5	2.20	1 / 0	23.89	26.09	0.407	33.01	-6.92
	QPSK	1862.5	2.20	1 / 66	23.90	26.10	0.407	33.01	-6.91
		1882.5	2.20	1 / 0	23.78	25.98	0.396	33.01	-7.03
		1902.5	2.20	1 / 0	23.82	26.02	0.400	33.01	-6.99
		16-QAM	1902.5	2.20	1 / 66	23.16	25.36	0.344	33.01
64-QAM	1902.5	2.20	1 / 131	21.82	24.02	0.252	33.01	-8.99	
256-QAM	1882.5	2.20	1 / 131	19.36	21.56	0.143	33.01	-11.45	
30 MHz	π/2 BPSK	1865.0	2.20	1 / 0	23.75	25.95	0.394	33.01	-7.06
		1882.5	2.20	1 / 0	23.70	25.90	0.389	33.01	-7.11
		1900.0	2.20	1 / 0	23.87	26.07	0.405	33.01	-6.94
	QPSK	1865.0	2.20	1 / 158	23.81	26.01	0.399	33.01	-7.00
		1882.5	2.20	1 / 80	23.83	26.03	0.401	33.01	-6.98
		1900.0	2.20	1 / 0	23.90	26.10	0.407	33.01	-6.91
		16-QAM	1900.0	2.20	1 / 0	22.69	24.89	0.308	33.01
64-QAM	1865.0	2.20	1 / 80	21.66	23.86	0.243	33.01	-9.15	
256-QAM	1882.5	2.20	1 / 80	19.21	21.41	0.138	33.01	-11.60	
40 MHz	π/2 BPSK	1870.0	2.20	1 / 108	23.86	26.06	0.404	33.01	-6.95
		1882.5	2.20	1 / 214	23.90	26.10	0.407	33.01	-6.91
		1895.0	2.20	1 / 108	23.57	25.77	0.377	33.01	-7.24
	QPSK	1870.0	2.20	1 / 0	23.71	25.91	0.390	33.01	-7.10
		1882.5	2.20	1 / 214	23.82	26.02	0.400	33.01	-6.99
		1895.0	2.20	1 / 214	23.86	26.06	0.404	33.01	-6.95
		16-QAM	1882.5	2.20	1 / 108	23.40	25.60	0.363	33.01
64-QAM	1895.0	2.20	1 / 214	21.84	24.04	0.253	33.01	-8.97	
256-QAM	1870.0	2.20	1 / 0	19.15	21.35	0.137	33.01	-11.66	


Table 7-9. Antenna 2a EIRP Data (NR Band n25)

FCC ID: BCGA2589		PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C211150079-02.BCG	Test Dates: 12/2/2021 - 1/30/2022	EUT Type: Tablet Device		Page 175 of 210

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	π/2 BPSK	1852.5	2.20	1 / 0	23.84	26.04	0.402	33.01	-6.97
		1880.0	2.20	1 / 0	23.90	26.10	0.407	33.01	-6.91
		1907.5	2.20	1 / 0	23.86	26.06	0.403	33.01	-6.95
	QPSK	1852.5	2.20	1 / 0	23.66	25.86	0.385	33.01	-7.15
		1880.0	2.20	1 / 12	23.86	26.06	0.403	33.01	-6.95
		1907.5	2.20	1 / 23	23.78	25.98	0.396	33.01	-7.03
	16-QAM	1880.0	2.20	1 / 12	23.21	25.41	0.348	33.01	-7.60
64-QAM	1852.5	2.20	1 / 0	21.41	23.61	0.230	33.01	-9.40	
256-QAM	1852.5	2.20	1 / 23	19.62	21.82	0.152	33.01	-11.19	
10 MHz	π/2 BPSK	1855.0	2.20	1 / 0	23.62	25.82	0.382	33.01	-7.19
		1880.0	2.20	1 / 48	23.83	26.03	0.401	33.01	-6.98
		1905.0	2.20	1 / 25	23.90	26.10	0.407	33.01	-6.91
	QPSK	1855.0	2.20	1 / 25	23.90	26.10	0.407	33.01	-6.91
		1880.0	2.20	1 / 48	23.85	26.05	0.402	33.01	-6.96
		1905.0	2.20	1 / 25	23.89	26.09	0.406	33.01	-6.92
	16-QAM	1905.0	2.20	1 / 48	23.15	25.35	0.343	33.01	-7.66
64-QAM	1855.0	2.20	1 / 25	21.59	23.79	0.239	33.01	-9.23	
256-QAM	1880.0	2.20	1 / 25	19.31	21.51	0.141	33.01	-11.51	
15 MHz	π/2 BPSK	1857.5	2.20	1 / 37	23.70	25.90	0.389	33.01	-7.11
		1880.0	2.20	1 / 73	23.90	26.10	0.407	33.01	-6.91
		1902.5	2.20	1 / 73	23.70	25.90	0.389	33.01	-7.11
	QPSK	1857.5	2.20	1 / 37	23.79	25.99	0.397	33.01	-7.02
		1880.0	2.20	1 / 73	23.70	25.90	0.389	33.01	-7.11
		1902.5	2.20	1 / 37	23.86	26.06	0.403	33.01	-6.95
	16-QAM	1880.0	2.20	1 / 0	23.47	25.67	0.369	33.01	-7.34
64-QAM	1857.5	2.20	1 / 0	21.78	23.98	0.250	33.01	-9.03	
256-QAM	1857.5	2.20	1 / 0	19.37	21.57	0.144	33.01	-11.44	
20 MHz	π/2 BPSK	1860.0	2.20	1 / 0	23.71	25.91	0.390	33.01	-7.10
		1880.0	2.20	1 / 0	23.84	26.04	0.401	33.01	-6.97
		1900.0	2.20	1 / 98	23.55	25.75	0.376	33.01	-7.26
	QPSK	1860.0	2.20	1 / 0	23.90	26.10	0.407	33.01	-6.91
		1880.0	2.20	1 / 98	23.78	25.98	0.397	33.01	-7.03
		1900.0	2.20	1 / 50	23.60	25.80	0.380	33.01	-7.21
	16-QAM	1860.0	2.20	1 / 50	23.22	25.42	0.348	33.01	-7.59
64-QAM	1900.0	2.20	1 / 0	21.67	23.87	0.244	33.01	-9.14	
256-QAM	1900.0	2.20	1 / 50	19.26	21.46	0.140	33.01	-11.55	


Table 7-10. Antenna 2a EIRP Data (NR Band n2)

FCC ID: BCGA2589		PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C211150079-02.BCG	Test Dates: 12/2/2021 - 1/30/2022	EUT Type: Tablet Device		Page 176 of 210

WCDMA PCS

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1852.40	WCDMA1900	23.55	2.20	25.75	0.376	33.01	-7.26
1880.00	WCDMA1900	23.53	2.20	25.73	0.374	33.01	-7.28
1907.60	WCDMA1900	23.57	2.20	25.77	0.378	33.01	-7.24

Table 7-11. Antenna 2a EIRP Data (WCDMA PCS)


FCC ID: BCGA2589		PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-02.BCG	Test Dates: 12/2/2021 - 1/30/2022	EUT Type: Tablet Device		Page 177 of 210

7.6.3 Antenna 3a – 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	-1.30	1 / 0	24.70	23.40	0.219	33.01	-9.61
		1882.5	-1.30	1 / 3	24.58	23.28	0.213	33.01	-9.73
		1914.3	-1.30	1 / 3	24.70	23.40	0.219	33.01	-9.61
	16-QAM	1882.5	-1.30	1 / 3	23.97	22.67	0.185	33.01	-10.34
	64-QAM	1882.5	-1.30	1 / 3	23.41	22.11	0.163	33.01	-10.90
	256-QAM	1914.3	-1.30	1 / 5	19.99	18.69	0.074	33.01	-14.32
3 MHz	QPSK	1851.5	-1.30	1 / 0	24.70	23.40	0.219	33.01	-9.61
		1882.5	-1.30	1 / 7	24.60	23.30	0.214	33.01	-9.71
		1913.5	-1.30	1 / 14	24.64	23.34	0.216	33.01	-9.67
	16-QAM	1882.5	-1.30	1 / 7	24.14	22.84	0.192	33.01	-10.17
	64-QAM	1882.5	-1.30	1 / 7	23.53	22.23	0.167	33.01	-10.78
	256-QAM	1851.5	-1.30	1 / 7	19.94	18.64	0.073	33.01	-14.37
5 MHz	QPSK	1852.5	-1.30	1 / 24	24.69	23.39	0.218	33.01	-9.62
		1882.5	-1.30	1 / 24	24.69	23.39	0.218	33.01	-9.62
		1912.5	-1.30	1 / 24	24.70	23.40	0.219	33.01	-9.61
	16-QAM	1912.5	-1.30	1 / 12	24.06	22.76	0.189	33.01	-10.25
	64-QAM	1882.5	-1.30	1 / 24	23.49	22.19	0.166	33.01	-10.82
	256-QAM	1882.5	-1.30	1 / 12	20.10	18.80	0.076	33.01	-14.21
10 MHz	QPSK	1855.0	-1.30	1 / 0	24.70	23.40	0.219	33.01	-9.61
		1882.5	-1.30	1 / 25	24.61	23.31	0.214	33.01	-9.70
		1910.0	-1.30	1 / 49	24.65	23.35	0.216	33.01	-9.66
	16-QAM	1882.5	-1.30	1 / 49	24.14	22.84	0.192	33.01	-10.17
	64-QAM	1882.5	-1.30	1 / 49	23.55	22.25	0.168	33.01	-10.76
	256-QAM	1855.0	-1.30	1 / 25	19.95	18.65	0.073	33.01	-14.36
15 MHz	QPSK	1857.5	-1.30	1 / 37	24.70	23.40	0.219	33.01	-9.61
		1882.5	-1.30	1 / 37	24.70	23.40	0.219	33.01	-9.61
		1907.5	-1.30	1 / 37	24.61	23.31	0.214	33.01	-9.70
	16-QAM	1882.5	-1.30	1 / 37	24.20	22.90	0.195	33.01	-10.11
	64-QAM	1882.5	-1.30	1 / 37	23.63	22.33	0.171	33.01	-10.68
	256-QAM	1857.5	-1.30	1 / 37	19.99	18.69	0.074	33.01	-14.32
20 MHz	QPSK	1860.0	-1.30	1 / 50	24.70	23.40	0.219	33.01	-9.61
		1882.5	-1.30	1 / 50	24.68	23.38	0.218	33.01	-9.63
		1905.0	-1.30	1 / 0	24.63	23.33	0.215	33.01	-9.68
	16-QAM	1882.5	-1.30	1 / 50	23.72	22.42	0.175	33.01	-10.59
	64-QAM	1905.0	-1.30	1 / 99	23.37	22.07	0.161	33.01	-10.94
	256-QAM	1905.0	-1.30	1 / 50	20.16	18.86	0.077	33.01	-14.15


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

FCC ID: BCGA2589		PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-02.BCG	Test Dates: 12/2/2021 - 1/30/2022	EUT Type: Tablet Device		Page 178 of 210

LTE Band 2

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	1850.7	-1.30	1 / 3	24.62	23.32	0.215	33.01	-9.69
		1880.0	-1.30	1 / 0	24.67	23.37	0.217	33.01	-9.64
		1909.3	-1.30	1 / 3	24.70	23.40	0.219	33.01	-9.61
	16-QAM	1880.0	-1.30	1 / 3	24.07	22.77	0.189	33.01	-10.24
	64-QAM	1880.0	-1.30	1 / 3	23.53	22.23	0.167	33.01	-10.78
256-QAM	1850.7	-1.30	1 / 5	19.88	18.58	0.072	33.01	-14.43	
3 MHz	QPSK	1851.5	-1.30	1 / 14	24.70	23.40	0.219	33.01	-9.61
		1880.0	-1.30	1 / 0	24.70	23.40	0.219	33.01	-9.61
		1908.5	-1.30	1 / 14	24.64	23.34	0.216	33.01	-9.67
	16-QAM	1880.0	-1.30	1 / 7	24.21	22.91	0.195	33.01	-10.10
	64-QAM	1880.0	-1.30	1 / 7	23.61	22.31	0.170	33.01	-10.70
	256-QAM	1908.5	-1.30	1 / 7	19.76	18.46	0.070	33.01	-14.55
5 MHz	QPSK	1852.5	-1.30	1 / 0	24.65	23.35	0.216	33.01	-9.66
		1880.0	-1.30	1 / 12	24.70	23.40	0.219	33.01	-9.61
		1907.5	-1.30	1 / 24	24.70	23.40	0.219	33.01	-9.61
	16-QAM	1907.5	-1.30	1 / 12	24.07	22.77	0.189	33.01	-10.24
	64-QAM	1880.0	-1.30	1 / 24	23.38	22.08	0.161	33.01	-10.93
	256-QAM	1852.5	-1.30	1 / 0	20.12	18.82	0.076	33.01	-14.19
10 MHz	QPSK	1855.0	-1.30	1 / 49	24.70	23.40	0.219	33.01	-9.61
		1880.0	-1.30	1 / 49	24.70	23.40	0.219	33.01	-9.61
		1905.0	-1.30	1 / 25	24.69	23.39	0.218	33.01	-9.62
	16-QAM	1880.0	-1.30	1 / 49	24.28	22.98	0.199	33.01	-10.03
	64-QAM	1880.0	-1.30	1 / 25	23.60	22.30	0.170	33.01	-10.71
	256-QAM	1855.0	-1.30	1 / 49	19.99	18.69	0.074	33.01	-14.32
15 MHz	QPSK	1857.5	-1.30	1 / 74	24.70	23.40	0.219	33.01	-9.61
		1880.0	-1.30	1 / 0	24.68	23.38	0.218	33.01	-9.63
		1902.5	-1.30	1 / 37	24.68	23.38	0.218	33.01	-9.63
	16-QAM	1880.0	-1.30	1 / 74	24.16	22.86	0.193	33.01	-10.15
	64-QAM	1880.0	-1.30	1 / 0	23.52	22.22	0.167	33.01	-10.79
256-QAM	1857.5	-1.30	1 / 74	19.97	18.67	0.074	33.01	-14.34	
20 MHz	QPSK	1860.0	-1.30	1 / 50	24.70	23.40	0.219	33.01	-9.61
		1880.0	-1.30	1 / 50	24.65	23.35	0.216	33.01	-9.66
		1900.0	-1.30	1 / 99	24.69	23.39	0.218	33.01	-9.62
	16-QAM	1900.0	-1.30	1 / 99	23.75	22.45	0.176	33.01	-10.56
	64-QAM	1900.0	-1.30	1 / 99	23.50	22.20	0.166	33.01	-10.81
	256-QAM	1900.0	-1.30	1 / 50	20.19	18.89	0.077	33.01	-14.12


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

FCC ID: BCGA2589		PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-02.BCG	Test Dates: 12/2/2021 - 1/30/2022	EUT Type: Tablet Device		Page 179 of 210

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	-1.30	1 / 23	24.27	22.97	0.198	33.01	-10.04
		1882.5	-1.30	1 / 23	24.54	23.24	0.211	33.01	-9.77
		1912.5	-1.30	1 / 0	24.70	23.40	0.219	33.01	-9.61
	QPSK	1852.5	-1.30	1 / 12	24.56	23.26	0.212	33.01	-9.75
		1882.5	-1.30	1 / 23	24.65	23.35	0.216	33.01	-9.66
		1912.5	-1.30	1 / 23	24.66	23.36	0.217	33.01	-9.65
	16-QAM	1882.5	-1.30	1 / 0	23.86	22.56	0.180	33.01	-10.45
64-QAM	1882.5	-1.30	1 / 0	22.01	20.71	0.118	33.01	-12.30	
256-QAM	1852.5	-1.30	1 / 0	19.78	18.48	0.071	33.01	-14.53	
10 MHz	π/2 BPSK	1855.0	-1.30	1 / 0	24.68	23.38	0.218	33.01	-9.63
		1882.5	-1.30	1 / 0	24.68	23.38	0.218	33.01	-9.63
		1910.0	-1.30	1 / 48	24.70	23.40	0.219	33.01	-9.61
	QPSK	1855.0	-1.30	1 / 25	24.65	23.35	0.216	33.01	-9.66
		1882.5	-1.30	1 / 0	24.50	23.20	0.209	33.01	-9.81
		1910.0	-1.30	1 / 0	24.62	23.32	0.215	33.01	-9.69
	16-QAM	1910.0	-1.30	1 / 48	23.74	22.44	0.175	33.01	-10.57
64-QAM	1882.5	-1.30	1 / 0	22.30	21.00	0.126	33.01	-12.01	
256-QAM	1882.5	-1.30	1 / 48	20.26	18.96	0.079	33.01	-14.05	
15 MHz	π/2 BPSK	1857.5	-1.30	1 / 73	24.40	23.10	0.204	33.01	-9.91
		1882.5	-1.30	1 / 73	24.70	23.40	0.219	33.01	-9.61
		1907.5	-1.30	1 / 0	24.31	23.01	0.200	33.01	-10.00
	QPSK	1857.5	-1.30	1 / 37	24.62	23.32	0.215	33.01	-9.69
		1882.5	-1.30	1 / 37	24.55	23.25	0.211	33.01	-9.76
		1907.5	-1.30	1 / 0	24.61	23.31	0.214	33.01	-9.70
	16-QAM	1907.5	-1.30	1 / 0	23.82	22.52	0.179	33.01	-10.49
64-QAM	1857.5	-1.30	1 / 37	22.13	20.83	0.121	33.01	-12.18	
256-QAM	1857.5	-1.30	1 / 0	20.06	18.76	0.075	33.01	-14.25	
20 MHz	π/2 BPSK	1860.0	-1.30	1 / 50	24.67	23.37	0.217	33.01	-9.64
		1882.5	-1.30	1 / 50	24.57	23.27	0.212	33.01	-9.74
		1905.0	-1.30	1 / 0	24.64	23.34	0.216	33.01	-9.67
	QPSK	1860.0	-1.30	1 / 0	24.58	23.28	0.213	33.01	-9.73
		1882.5	-1.30	1 / 0	24.47	23.17	0.207	33.01	-9.84
		1905.0	-1.30	1 / 0	24.70	23.40	0.219	33.01	-9.61
	16-QAM	1905.0	-1.30	1 / 50	23.79	22.49	0.177	33.01	-10.52
64-QAM	1860.0	-1.30	1 / 98	22.31	21.01	0.126	33.01	-12.01	
256-QAM	1882.5	-1.30	1 / 0	19.86	18.56	0.072	33.01	-14.45	
25 MHz	π/2 BPSK	1862.5	-1.30	1 / 131	24.37	23.07	0.203	33.01	-9.94
		1882.5	-1.30	1 / 131	24.70	23.40	0.219	33.01	-9.61
		1902.5	-1.30	1 / 0	24.60	23.30	0.214	33.01	-9.71
	QPSK	1862.5	-1.30	1 / 0	24.51	23.21	0.209	33.01	-9.80
		1882.5	-1.30	1 / 0	24.61	23.31	0.214	33.01	-9.70
		1902.5	-1.30	1 / 0	24.58	23.28	0.213	33.01	-9.73
	16-QAM	1902.5	-1.30	1 / 0	24.01	22.71	0.187	33.01	-10.30
64-QAM	1902.5	-1.30	1 / 0	21.90	20.60	0.115	33.01	-12.41	
256-QAM	1862.5	-1.30	1 / 131	20.07	18.77	0.075	33.01	-14.24	
30 MHz	π/2 BPSK	1865.0	-1.30	1 / 158	24.70	23.40	0.219	33.01	-9.61
		1882.5	-1.30	1 / 158	24.50	23.20	0.209	33.01	-9.81
		1900.0	-1.30	1 / 0	24.63	23.33	0.215	33.01	-9.68
	QPSK	1865.0	-1.30	1 / 158	24.62	23.32	0.215	33.01	-9.69
		1882.5	-1.30	1 / 158	24.67	23.37	0.217	33.01	-9.64
		1900.0	-1.30	1 / 158	24.70	23.40	0.219	33.01	-9.61
	16-QAM	1882.5	-1.30	1 / 80	23.75	22.45	0.176	33.01	-10.56
64-QAM	1882.5	-1.30	1 / 0	21.90	20.60	0.115	33.01	-12.41	
256-QAM	1882.5	-1.30	1 / 80	19.96	18.66	0.074	33.01	-14.35	
40 MHz	π/2 BPSK	1870.0	-1.30	1 / 214	24.62	23.32	0.215	33.01	-9.69
		1882.5	-1.30	1 / 214	24.46	23.16	0.207	33.01	-9.85
		1895.0	-1.30	1 / 0	24.53	23.23	0.210	33.01	-9.78
	QPSK	1870.0	-1.30	1 / 214	24.54	23.24	0.211	33.01	-9.77
		1882.5	-1.30	1 / 108	24.61	23.31	0.214	33.01	-9.70
		1895.0	-1.30	1 / 108	24.61	23.31	0.214	33.01	-9.71
	16-QAM	1895.0	-1.30	1 / 0	24.04	22.74	0.188	33.01	-10.27
64-QAM	1895.0	-1.30	1 / 0	22.23	20.93	0.124	33.01	-12.08	
256-QAM	1895.0	-1.30	1 / 214	20.25	18.95	0.078	33.01	-14.06	


Table 7-14. Antenna 3a EIRP Data (NR Band n25)

FCC ID: BCGA2589		PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C211150079-02.BCG	Test Dates: 12/2/2021 - 1/30/2022	EUT Type: Tablet Device		Page 180 of 210

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	π/2 BPSK	1852.5	-1.30	1 / 23	24.50	23.20	0.209	33.01	-9.81
		1880.0	-1.30	1 / 23	24.43	23.13	0.206	33.01	-9.88
		1907.5	-1.30	1 / 23	24.27	22.97	0.198	33.01	-10.04
	QPSK	1852.5	-1.30	1 / 23	24.60	23.30	0.214	33.01	-9.71
		1880.0	-1.30	1 / 12	24.70	23.40	0.219	33.01	-9.61
		1907.5	-1.30	1 / 0	24.53	23.23	0.210	33.01	-9.79
	16-QAM	1880.0	-1.30	1 / 0	23.73	22.43	0.175	33.01	-10.58
64-QAM	1907.5	-1.30	1 / 23	21.85	20.55	0.114	33.01	-12.46	
256-QAM	1907.5	-1.30	1 / 12	20.14	18.84	0.076	33.01	-14.17	
10 MHz	π/2 BPSK	1855.0	-1.30	1 / 0	24.64	23.34	0.216	33.01	-9.67
		1880.0	-1.30	1 / 25	24.68	23.38	0.218	33.01	-9.63
		1905.0	-1.30	1 / 0	24.34	23.04	0.201	33.01	-9.97
	QPSK	1855.0	-1.30	1 / 48	24.70	23.40	0.219	33.01	-9.61
		1880.0	-1.30	1 / 25	24.55	23.25	0.211	33.01	-9.76
		1905.0	-1.30	1 / 25	24.67	23.37	0.217	33.01	-9.64
	16-QAM	1855.0	-1.30	1 / 25	23.84	22.54	0.179	33.01	-10.47
64-QAM	1880.0	-1.30	1 / 0	22.33	21.03	0.127	33.01	-11.98	
256-QAM	1880.0	-1.30	1 / 48	20.01	18.71	0.074	33.01	-14.30	
15 MHz	π/2 BPSK	1857.5	-1.30	1 / 73	24.47	23.17	0.208	33.01	-9.84
		1880.0	-1.30	1 / 73	24.56	23.26	0.212	33.01	-9.75
		1902.5	-1.30	1 / 0	24.32	23.02	0.200	33.01	-9.99
	QPSK	1857.5	-1.30	1 / 37	24.69	23.39	0.218	33.01	-9.62
		1880.0	-1.30	1 / 73	24.70	23.40	0.219	33.01	-9.61
		1902.5	-1.30	1 / 73	24.55	23.25	0.211	33.01	-9.76
	16-QAM	1902.5	-1.30	1 / 0	23.84	22.54	0.180	33.01	-10.47
64-QAM	1880.0	-1.30	1 / 37	22.13	20.83	0.121	33.01	-12.18	
256-QAM	1857.5	-1.30	1 / 0	20.07	18.77	0.075	33.01	-14.24	
20 MHz	π/2 BPSK	1860.0	-1.30	1 / 98	24.70	23.40	0.219	33.01	-9.61
		1880.0	-1.30	1 / 50	24.24	22.94	0.197	33.01	-10.07
		1900.0	-1.30	1 / 50	24.66	23.36	0.217	33.01	-9.65
	QPSK	1860.0	-1.30	1 / 98	24.57	23.27	0.212	33.01	-9.74
		1880.0	-1.30	1 / 0	24.51	23.21	0.210	33.01	-9.80
		1900.0	-1.30	1 / 0	24.61	23.31	0.214	33.01	-9.70
	16-QAM	1900.0	-1.30	1 / 50	23.87	22.57	0.181	33.01	-10.44
64-QAM	1860.0	-1.30	1 / 98	22.14	20.84	0.121	33.01	-12.18	
256-QAM	1900.0	-1.30	1 / 50	20.03	18.73	0.075	33.01	-14.28	


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

FCC ID: BCGA2589		PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C211150079-02.BCG	Test Dates: 12/2/2021 - 1/30/2022	EUT Type: Tablet Device		Page 181 of 210

WCDMA PCS

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1852.40	WCDMA1900	24.37	-1.30	23.07	0.203	33.01	-9.94
1880.00	WCDMA1900	24.45	-1.30	23.15	0.207	33.01	-9.86
1907.60	WCDMA1900	24.40	-1.30	23.10	0.204	33.01	-9.91

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


FCC ID: BCGA2589		PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-02.BCG	Test Dates: 12/2/2021 - 1/30/2022	EUT Type: Tablet Device		Page 182 of 210

7.6.4 Antenna 1a – 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	0.20	1 / 3	23.03	23.23	0.210	33.01	-9.78
		1882.5	0.20	1 / 3	23.11	23.31	0.214	33.01	-9.70
		1914.3	0.20	1 / 3	23.28	23.48	0.223	33.01	-9.53
	16-QAM	1850.7	0.20	1 / 5	22.28	22.48	0.177	33.01	-10.53
	64-QAM	1914.3	0.20	1 / 3	21.62	21.82	0.152	33.01	-11.19
3 MHz	QPSK	1851.5	0.20	1 / 14	23.08	23.28	0.213	33.01	-9.73
		1882.5	0.20	1 / 14	23.21	23.41	0.219	33.01	-9.60
		1913.5	0.20	1 / 14	23.11	23.31	0.214	33.01	-9.70
	16-QAM	1851.5	0.20	1 / 14	22.40	22.60	0.182	33.01	-10.41
	64-QAM	1913.5	0.20	1 / 7	21.84	22.04	0.160	33.01	-10.97
5 MHz	QPSK	1852.5	0.20	1 / 12	23.15	23.35	0.216	33.01	-9.66
		1882.5	0.20	1 / 24	23.23	23.43	0.220	33.01	-9.58
		1912.5	0.20	1 / 24	23.05	23.25	0.211	33.01	-9.76
	16-QAM	1882.5	0.20	1 / 12	22.49	22.69	0.186	33.01	-10.32
	64-QAM	1852.5	0.20	1 / 12	21.58	21.78	0.151	33.01	-11.23
10 MHz	QPSK	1855.0	0.20	1 / 49	23.03	23.23	0.210	33.01	-9.78
		1882.5	0.20	1 / 25	23.11	23.31	0.214	33.01	-9.70
		1910.0	0.20	1 / 49	23.09	23.29	0.213	33.01	-9.72
	16-QAM	1910.0	0.20	1 / 25	22.47	22.67	0.185	33.01	-10.34
	64-QAM	1910.0	0.20	1 / 25	21.68	21.88	0.154	33.01	-11.13
15 MHz	QPSK	1857.5	0.20	1 / 37	23.27	23.47	0.222	33.01	-9.54
		1882.5	0.20	1 / 37	23.20	23.40	0.219	33.01	-9.61
		1907.5	0.20	1 / 37	23.07	23.27	0.212	33.01	-9.74
	16-QAM	1907.5	0.20	1 / 37	22.47	22.67	0.185	33.01	-10.34
	64-QAM	1907.5	0.20	1 / 37	21.78	21.98	0.158	33.01	-11.03
20 MHz	QPSK	1860.0	0.20	1 / 50	23.22	23.42	0.220	33.01	-9.59
		1882.5	0.20	1 / 0	22.94	23.14	0.206	33.01	-9.87
		1905.0	0.20	1 / 50	23.21	23.41	0.219	33.01	-9.60
	16-QAM	1905.0	0.20	1 / 50	22.44	22.64	0.184	33.01	-10.37
	64-QAM	1882.5	0.20	1 / 50	21.86	22.06	0.161	33.01	-10.95
256-QAM	1882.5	0.20	1 / 50	18.71	18.91	0.078	33.01	-14.10	


Table 7-17. Antenna 1a EIRP Data (LTE Band 25)

FCC ID: BCGA2589		PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C211150079-02.BCG	Test Dates: 12/2/2021 - 1/30/2022	EUT Type: Tablet Device		Page 183 of 210

LTE Band 2

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	1850.7	0.20	1 / 3	23.11	23.31	0.214	33.01	-9.70
		1880.0	0.20	1 / 3	23.18	23.38	0.218	33.01	-9.63
		1909.3	0.20	1 / 3	23.32	23.52	0.225	33.01	-9.49
	16-QAM	1850.7	0.20	1 / 3	22.34	22.54	0.179	33.01	-10.47
	64-QAM	1909.3	0.20	1 / 3	21.69	21.89	0.155	33.01	-11.12
	256-QAM	1880.0	0.20	1 / 3	18.76	18.96	0.079	33.01	-14.05
3 MHz	QPSK	1851.5	0.20	1 / 0	23.10	23.30	0.214	33.01	-9.71
		1880.0	0.20	1 / 14	23.26	23.46	0.222	33.01	-9.55
		1908.5	0.20	1 / 14	23.17	23.37	0.217	33.01	-9.64
	16-QAM	1908.5	0.20	1 / 7	22.52	22.72	0.187	33.01	-10.29
	64-QAM	1908.5	0.20	1 / 7	21.90	22.10	0.162	33.01	-10.91
	256-QAM	1908.5	0.20	1 / 0	18.84	19.04	0.080	33.01	-13.97
5 MHz	QPSK	1852.5	0.20	1 / 24	23.21	23.41	0.219	33.01	-9.60
		1880.0	0.20	1 / 12	23.39	23.59	0.229	33.01	-9.42
		1907.5	0.20	1 / 12	23.10	23.30	0.214	33.01	-9.71
	16-QAM	1880.0	0.20	1 / 12	22.59	22.79	0.190	33.01	-10.22
	64-QAM	1852.5	0.20	1 / 12	21.64	21.84	0.153	33.01	-11.17
	256-QAM	1907.5	0.20	1 / 12	18.67	18.87	0.077	33.01	-14.14
10 MHz	QPSK	1855.0	0.20	1 / 0	23.18	23.38	0.218	33.01	-9.63
		1880.0	0.20	1 / 49	23.23	23.43	0.220	33.01	-9.58
		1905.0	0.20	1 / 0	23.11	23.31	0.214	33.01	-9.70
	16-QAM	1905.0	0.20	1 / 0	22.56	22.76	0.189	33.01	-10.25
	64-QAM	1905.0	0.20	1 / 25	21.77	21.97	0.157	33.01	-11.04
	256-QAM	1880.0	0.20	1 / 49	18.81	19.01	0.080	33.01	-14.00
15 MHz	QPSK	1857.5	0.20	1 / 74	23.33	23.53	0.225	33.01	-9.48
		1880.0	0.20	1 / 37	23.25	23.45	0.221	33.01	-9.56
		1902.5	0.20	1 / 37	23.14	23.34	0.216	33.01	-9.67
	16-QAM	1902.5	0.20	1 / 37	22.50	22.70	0.186	33.01	-10.31
	64-QAM	1902.5	0.20	1 / 37	21.83	22.03	0.160	33.01	-10.98
	256-QAM	1902.5	0.20	1 / 74	18.86	19.06	0.081	33.01	-13.95
20 MHz	QPSK	1860.0	0.20	1 / 50	23.05	23.25	0.211	33.01	-9.76
		1880.0	0.20	1 / 50	23.34	23.54	0.226	33.01	-9.47
		1900.0	0.20	1 / 50	23.26	23.46	0.222	33.01	-9.55
	16-QAM	1880.0	0.20	1 / 99	22.54	22.74	0.188	33.01	-10.27
	64-QAM	1860.0	0.20	1 / 50	21.97	22.17	0.165	33.01	-10.84
	256-QAM	1880.0	0.20	1 / 50	18.77	18.97	0.079	33.01	-14.04


Table 7-18. Antenna 1a EIRP Data (LTE Band 2)

FCC ID: BCGA2589		PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C211150079-02.BCG	Test Dates: 12/2/2021 - 1/30/2022	EUT Type: Tablet Device		Page 184 of 210

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	0.20	1 / 12	23.05	23.25	0.212	33.01	-9.76
		1882.5	0.20	1 / 23	23.01	23.21	0.209	33.01	-9.80
		1912.5	0.20	1 / 0	23.16	23.36	0.217	33.01	-9.65
	QPSK	1852.5	0.20	1 / 0	23.14	23.34	0.216	33.01	-9.67
		1882.5	0.20	1 / 0	23.22	23.42	0.220	33.01	-9.59
		1912.5	0.20	1 / 23	23.16	23.36	0.217	33.01	-9.65
	16-QAM	1852.5	0.20	1 / 0	22.00	22.20	0.166	33.01	-10.81
	64-QAM	1912.5	0.20	1 / 0	20.81	21.01	0.126	33.01	-12.00
	256-QAM	1882.5	0.20	1 / 23	19.01	19.21	0.083	33.01	-13.80
10 MHz	π/2 BPSK	1855.0	0.20	1 / 0	23.31	23.51	0.224	33.01	-9.50
		1882.5	0.20	1 / 25	23.10	23.30	0.214	33.01	-9.71
		1910.0	0.20	1 / 25	23.40	23.60	0.229	33.01	-9.41
	QPSK	1855.0	0.20	1 / 0	23.04	23.24	0.211	33.01	-9.77
		1882.5	0.20	1 / 0	23.21	23.41	0.219	33.01	-9.60
		1910.0	0.20	1 / 0	23.19	23.39	0.218	33.01	-9.62
	16-QAM	1882.5	0.20	1 / 0	22.30	22.50	0.178	33.01	-10.51
	64-QAM	1882.5	0.20	1 / 48	20.91	21.11	0.129	33.01	-11.90
	256-QAM	1882.5	0.20	1 / 0	18.82	19.02	0.080	33.01	-13.99
15 MHz	π/2 BPSK	1857.5	0.20	1 / 37	23.32	23.52	0.225	33.01	-9.49
		1882.5	0.20	1 / 73	23.30	23.50	0.224	33.01	-9.51
		1907.5	0.20	1 / 37	23.38	23.58	0.228	33.01	-9.43
	QPSK	1857.5	0.20	1 / 37	23.28	23.48	0.223	33.01	-9.53
		1882.5	0.20	1 / 0	23.12	23.32	0.215	33.01	-9.69
		1907.5	0.20	1 / 73	23.07	23.27	0.212	33.01	-9.75
	16-QAM	1882.5	0.20	1 / 73	22.16	22.36	0.172	33.01	-10.65
	64-QAM	1857.5	0.20	1 / 73	21.04	21.24	0.133	33.01	-11.77
	256-QAM	1857.5	0.20	1 / 0	18.67	18.87	0.077	33.01	-14.14
20 MHz	π/2 BPSK	1860.0	0.20	1 / 0	23.20	23.40	0.219	33.01	-9.61
		1882.5	0.20	1 / 0	23.38	23.58	0.228	33.01	-9.43
		1905.0	0.20	1 / 0	23.08	23.28	0.213	33.01	-9.73
	QPSK	1860.0	0.20	1 / 98	22.88	23.08	0.203	33.01	-9.93
		1882.5	0.20	1 / 0	22.88	23.08	0.203	33.01	-9.93
		1905.0	0.20	1 / 0	23.16	23.36	0.217	33.01	-9.65
	16-QAM	1882.5	0.20	1 / 98	22.36	22.56	0.180	33.01	-10.45
	64-QAM	1882.5	0.20	1 / 98	20.80	21.00	0.126	33.01	-12.01
	256-QAM	1882.5	0.20	1 / 50	18.77	18.97	0.079	33.01	-14.04
25 MHz	π/2 BPSK	1862.5	0.20	1 / 0	23.17	23.37	0.217	33.01	-9.64
		1882.5	0.20	1 / 131	23.40	23.60	0.229	33.01	-9.41
		1902.5	0.20	1 / 131	23.37	23.57	0.228	33.01	-9.44
	QPSK	1862.5	0.20	1 / 66	23.20	23.40	0.219	33.01	-9.61
		1882.5	0.20	1 / 0	23.34	23.54	0.226	33.01	-9.47
		1902.5	0.20	1 / 131	23.24	23.44	0.221	33.01	-9.57
	16-QAM	1902.5	0.20	1 / 0	22.23	22.43	0.175	33.01	-10.58
	64-QAM	1882.5	0.20	1 / 131	21.09	21.29	0.134	33.01	-11.72
	256-QAM	1862.5	0.20	1 / 131	19.05	19.25	0.084	33.01	-13.76
30 MHz	π/2 BPSK	1865.0	0.20	1 / 158	23.13	23.33	0.215	33.01	-9.68
		1882.5	0.20	1 / 0	23.37	23.57	0.228	33.01	-9.44
		1900.0	0.20	1 / 80	23.40	23.60	0.229	33.01	-9.41
	QPSK	1865.0	0.20	1 / 158	23.14	23.34	0.216	33.01	-9.68
		1882.5	0.20	1 / 158	23.24	23.44	0.221	33.01	-9.57
		1900.0	0.20	1 / 0	23.28	23.48	0.223	33.01	-9.53
	16-QAM	1882.5	0.20	1 / 0	22.34	22.54	0.179	33.01	-10.47
	64-QAM	1900.0	0.20	1 / 0	21.51	21.71	0.148	33.01	-11.30
	256-QAM	1865.0	0.20	1 / 158	18.98	19.18	0.083	33.01	-13.83
40 MHz	π/2 BPSK	1870.0	0.20	1 / 214	23.37	23.57	0.227	33.01	-9.44
		1882.5	0.20	1 / 214	23.37	23.57	0.227	33.01	-9.45
		1895.0	0.20	1 / 0	23.18	23.38	0.218	33.01	-9.63
	QPSK	1870.0	0.20	1 / 214	23.33	23.53	0.225	33.01	-9.48
		1882.5	0.20	1 / 214	23.37	23.57	0.228	33.01	-9.44
		1895.0	0.20	1 / 0	23.40	23.60	0.229	33.01	-9.41
	16-QAM	1882.5	0.20	1 / 0	22.42	22.62	0.183	33.01	-10.39
	64-QAM	1895.0	0.20	1 / 214	21.25	21.45	0.140	33.01	-11.56
	256-QAM	1895.0	0.20	1 / 0	18.97	19.17	0.083	33.01	-13.84


Table 7-19. Antenna 1a EIRP Data (NR Band n25)

FCC ID: BCGA2589		PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C211150079-02.BCG	Test Dates: 12/2/2021 - 1/30/2022	EUT Type: Tablet Device		Page 185 of 210

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	π/2 BPSK	1852.5	0.20	1 / 0	22.77	22.97	0.198	33.01	-10.04
		1880.0	0.20	1 / 0	23.28	23.48	0.223	33.01	-9.53
		1907.5	0.20	1 / 12	23.38	23.58	0.228	33.01	-9.43
	QPSK	1852.5	0.20	1 / 23	22.98	23.18	0.208	33.01	-9.83
		1880.0	0.20	1 / 0	23.00	23.20	0.209	33.01	-9.81
		1907.5	0.20	1 / 12	23.15	23.35	0.216	33.01	-9.66
	16-QAM	1880.0	0.20	1 / 0	22.05	22.25	0.168	33.01	-10.76
64-QAM	1880.0	0.20	1 / 0	21.03	21.23	0.133	33.01	-11.78	
256-QAM	1880.0	0.20	1 / 0	18.58	18.78	0.075	33.01	-14.23	
10 MHz	π/2 BPSK	1855.0	0.20	1 / 0	23.25	23.45	0.221	33.01	-9.56
		1880.0	0.20	1 / 48	23.00	23.20	0.209	33.01	-9.81
		1905.0	0.20	1 / 48	23.31	23.51	0.224	33.01	-9.50
	QPSK	1855.0	0.20	1 / 25	22.90	23.10	0.204	33.01	-9.91
		1880.0	0.20	1 / 25	22.94	23.14	0.206	33.01	-9.87
		1905.0	0.20	1 / 48	23.24	23.44	0.221	33.01	-9.57
	16-QAM	1905.0	0.20	1 / 0	22.09	22.29	0.169	33.01	-10.72
64-QAM	1905.0	0.20	1 / 0	20.77	20.97	0.125	33.01	-12.04	
256-QAM	1855.0	0.20	1 / 0	18.66	18.86	0.077	33.01	-14.15	
15 MHz	π/2 BPSK	1857.5	0.20	1 / 73	23.13	23.33	0.215	33.01	-9.68
		1880.0	0.20	1 / 37	23.32	23.52	0.225	33.01	-9.49
		1902.5	0.20	1 / 37	23.13	23.33	0.215	33.01	-9.68
	QPSK	1857.5	0.20	1 / 73	23.24	23.44	0.221	33.01	-9.57
		1880.0	0.20	1 / 0	23.13	23.33	0.215	33.01	-9.68
		1902.5	0.20	1 / 37	23.04	23.24	0.211	33.01	-9.77
	16-QAM	1857.5	0.20	1 / 0	22.54	22.74	0.188	33.01	-10.27
64-QAM	1902.5	0.20	1 / 73	20.86	21.06	0.128	33.01	-11.95	
256-QAM	1880.0	0.20	1 / 37	18.93	19.13	0.082	33.01	-13.88	
20 MHz	π/2 BPSK	1860.0	0.20	1 / 0	23.40	23.60	0.229	33.01	-9.41
		1880.0	0.20	1 / 0	23.29	23.49	0.223	33.01	-9.52
		1900.0	0.20	1 / 98	23.07	23.27	0.212	33.01	-9.74
	QPSK	1860.0	0.20	1 / 0	22.89	23.09	0.204	33.01	-9.92
		1880.0	0.20	1 / 0	23.15	23.35	0.216	33.01	-9.66
		1900.0	0.20	1 / 98	23.28	23.48	0.223	33.01	-9.53
	16-QAM	1880.0	0.20	1 / 0	21.88	22.08	0.161	33.01	-10.93
64-QAM	1860.0	0.20	1 / 0	20.81	21.01	0.126	33.01	-12.00	
256-QAM	1900.0	0.20	1 / 98	18.69	18.89	0.077	33.01	-14.12	


Table 7-20. Antenna 1a EIRP Data (NR Band n2)

FCC ID: BCGA2589		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	23.08	0.20	23.28	0.213	33.01	-9.73
1880.00	WCDMA1900	23.11	0.20	23.31	0.214	33.01	-9.70
1907.60	WCDMA1900	23.02	0.20	23.22	0.210	33.01	-9.79

Table 7-21. Antenna 1a EIRP Data (WCDMA PCS)

FCC ID: BCGA2589		PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-02.BCG	Test Dates: 12/2/2021 - 1/30/2022	EUT Type: Tablet Device		Page 187 of 210

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

FCC ID: BCGA2589	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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Test Setup

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

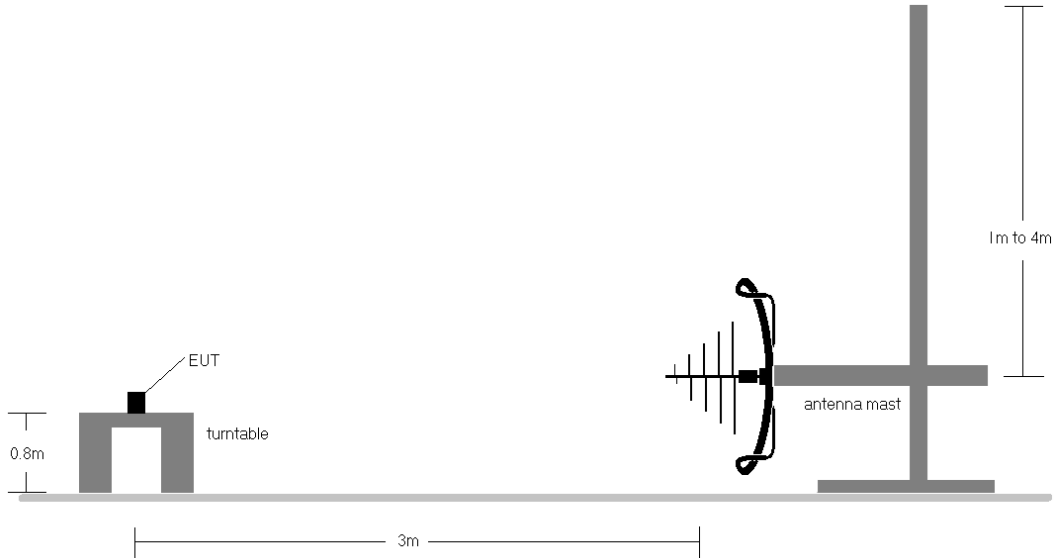


Figure 7-6. Test Instrument & Measurement Setup < 1GHz

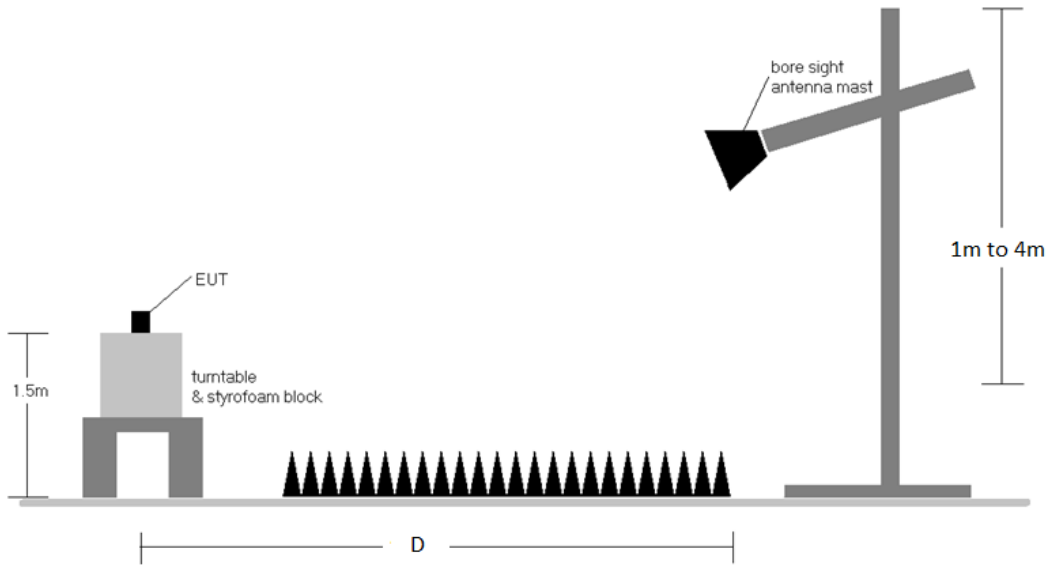



Figure 7-7. Test Instrument & Measurement Setup >1 GHz

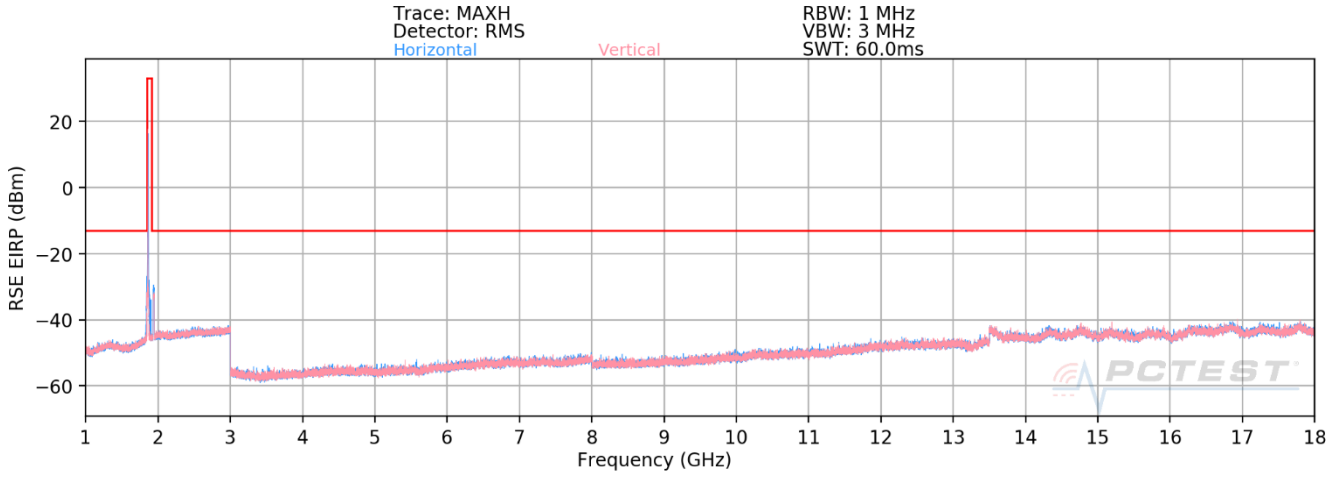
FCC ID: BCGA2589	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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Test Notes

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 4 – Radiated Spurious Emission Measurement LTE Band 25/2



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

FCC ID: BCGA2589	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-02.BCG	Test Dates: 12/2/2021 - 1/30/2022	EUT Type: Tablet Device	Page 191 of 210

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	339	128	-77.25	5.05	34.80	-60.46	-13.00	-47.46
5580.0	V	241	165	-78.48	7.11	35.63	-59.63	-13.00	-46.63
7440.0	V	-	-	-83.60	10.20	33.60	-61.65	-13.00	-48.65
9300.0	V	-	-	-84.53	11.73	34.20	-61.06	-13.00	-48.06
11160.0	V	-	-	-85.12	14.47	36.35	-58.91	-13.00	-45.91

Table 7-22. Antenna 4 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	261	131	-78.71	5.32	33.61	-61.64	-13.00	-48.64
5647.5	V	192	162	-80.75	7.63	33.88	-61.38	-13.00	-48.38
7530.0	V	-	-	-83.72	10.42	33.70	-61.56	-13.00	-48.56
9412.5	V	-	-	-84.84	12.52	34.68	-60.58	-13.00	-47.58
11295.0	V	-	-	-85.35	14.57	36.22	-59.04	-13.00	-46.04

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

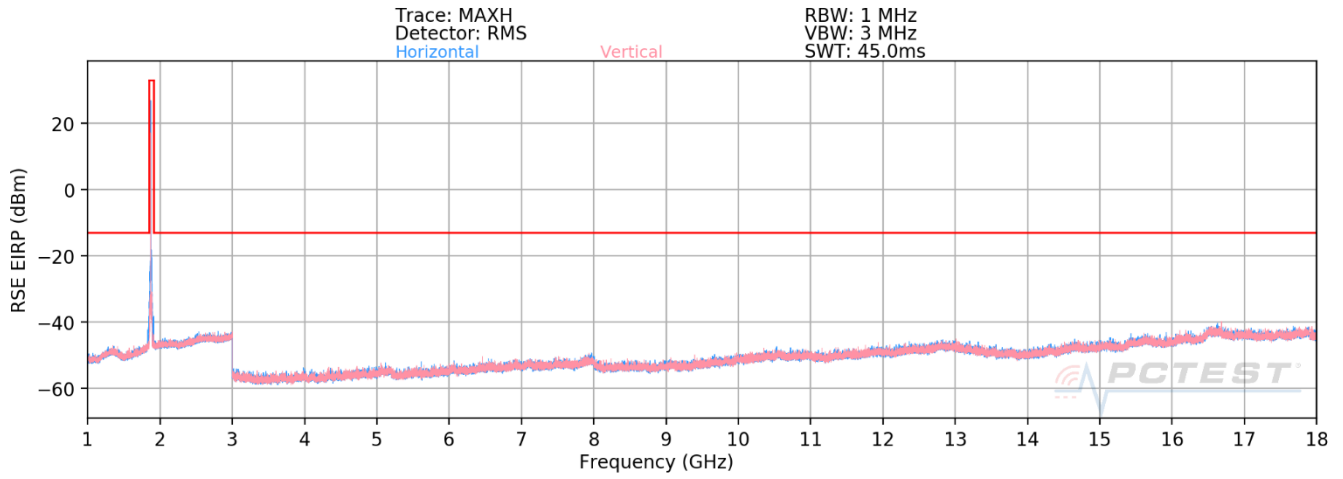
Bandwidth (MHz):	20
Frequency (MHz):	1905.0
RB / Offset:	1 / 50

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	298	134	-79.93	5.21	32.28	-62.98	-13.00	-49.98
5715.00	V	-	-	-82.36	8.04	32.68	-62.58	-13.00	-49.58
7620.00	V	-	-	-83.46	10.67	34.21	-61.05	-13.00	-48.05
9525.00	V	-	-	-84.59	12.85	35.26	-60.00	-13.00	-47.00
11430.00	V	-	-	-84.98	14.50	36.52	-58.74	-13.00	-45.74

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

FCC ID: BCGA2589	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C211150079-02.BCG	Test Dates: 12/2/2021 - 1/30/2022	EUT Type: Tablet Device
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NR Band n25/2



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

FCC ID: BCGA2589	PCTEST Proud to be part of element		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-02.BCG	Test Dates: 12/2/2021 - 1/30/2022	EUT Type: Tablet Device		Page 193 of 210

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	-	-	-79.97	5.56	32.59	-62.67	-13.00	-49.67
5610.0	V	-	-	-80.81	7.49	33.68	-61.58	-13.00	-48.58
7480.0	V	-	-	-81.58	10.61	36.03	-59.22	-13.00	-46.22
9350.0	V	-	-	-83.51	13.18	36.67	-58.59	-13.00	-45.59

Table 7-25. Antenna 4 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	-	-	-80.01	5.25	32.24	-63.02	-13.00	-50.02
5647.5	V	-	-	-81.07	7.40	33.33	-61.92	-13.00	-48.92
7530.0	V	-	-	-81.48	10.86	36.38	-58.88	-13.00	-45.88
9412.5	V	-	-	-83.76	13.24	36.48	-58.78	-13.00	-45.78

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

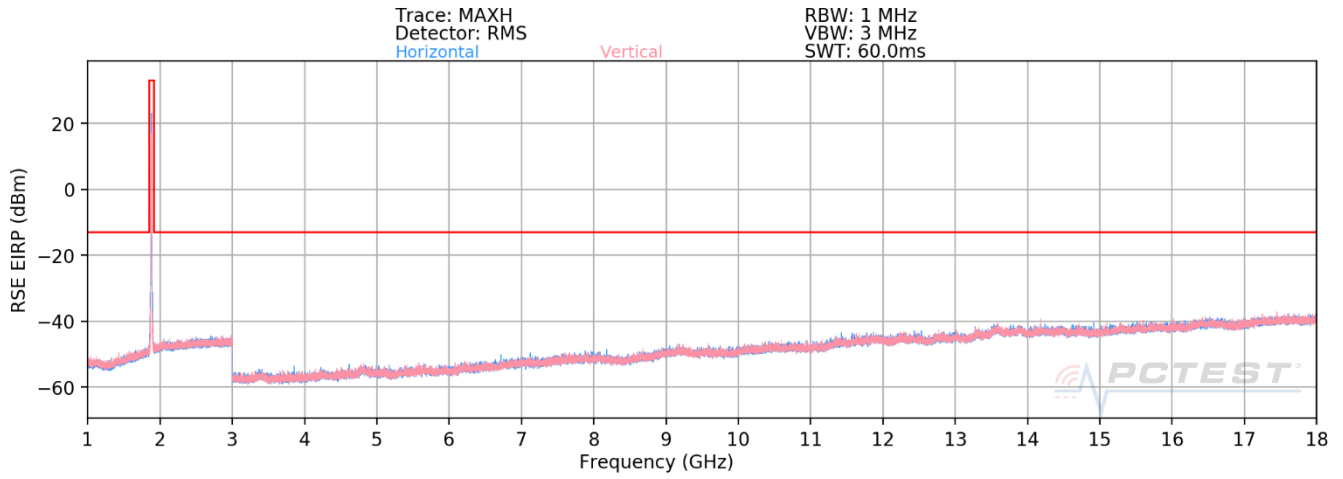
Bandwidth (MHz):	40
Frequency (MHz):	1895.0
RB / Offset:	1 / 108

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	-	-	-80.18	5.38	32.20	-63.06	-13.00	-50.06
5685.0	V	-	-	-81.07	7.48	33.41	-61.85	-13.00	-48.85
7580.0	V	-	-	-81.42	10.99	36.57	-58.68	-13.00	-45.68
9475.0	V	-	-	-83.70	13.17	36.47	-58.79	-13.00	-45.79

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

FCC ID: BCGA2589	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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WCDMA PCS



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

FCC ID: BCGA2589		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C211150079-02.BCG	Test Dates: 12/2/2021 - 1/30/2022	EUT Type: Tablet Device	Page 195 of 210

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	-	-	-78.43	4.03	32.60	-62.66	-13.00	-49.66
5557.2	V	-	-	-79.76	7.51	34.75	-60.51	-13.00	-47.51
7409.6	V	-	-	-80.38	10.99	37.61	-57.65	-13.00	-44.65

Table 7-28. Antenna 4 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	-	-	-78.77	4.45	32.68	-62.58	-13.00	-49.58
5640.0	V	284	35	-78.78	8.81	37.03	-58.23	-13.00	-45.23
7520.0	V	-	-	-80.51	11.16	37.65	-57.60	-13.00	-44.60
9400.0	V	-	-	-80.49	13.50	40.01	-55.25	-13.00	-42.25
11280.0	V	-	-	-81.38	16.76	42.38	-52.88	-13.00	-39.88

Table 7-29. Antenna 4 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	349	38	-78.16	4.81	33.65	-61.61	-13.00	-48.61
5722.8	V	-	-	-79.79	7.69	34.90	-60.35	-13.00	-47.35
7630.4	V	-	-	-80.95	11.73	37.78	-57.48	-13.00	-44.48
9538.0	V	-	-	-82.09	15.05	39.96	-55.29	-13.00	-42.29

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

FCC ID: BCGA2589	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C211150079-02.BCG	Test Dates: 12/2/2021 - 1/30/2022	EUT Type: Tablet Device
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7.7.2 Antenna 2A – 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	302	30	-77.88	5.05	34.17	-61.09	-13.00	-48.09
5580.0	V	-	-	-81.65	7.11	32.46	-62.80	-13.00	-49.80
7440.0	V	-	-	-82.85	10.20	34.35	-60.90	-13.00	-47.90
9300.0	V	-	-	-84.12	11.73	34.61	-60.65	-13.00	-47.65

Table 7-31. Antenna 2A 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	368	342	-79.55	5.32	32.77	-62.48	-13.00	-49.48
5647.5	V	-	-	-81.69	7.63	32.94	-62.32	-13.00	-49.32
7530.0	V	-	-	-82.97	10.42	34.45	-60.81	-13.00	-47.81
9412.5	V	-	-	-84.09	12.52	35.43	-59.83	-13.00	-46.83

Table 7-32. Antenna 2A 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	257	338	-78.50	5.21	33.71	-61.55	-13.00	-48.55
5715.00	V	-	-	-81.84	8.04	33.20	-62.06	-13.00	-49.06
7620.00	V	-	-	-82.86	10.67	34.81	-60.45	-13.00	-47.45
9525.00	V	-	-	-84.13	12.85	35.72	-59.54	-13.00	-46.54

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

FCC ID: BCGA2589		PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-02.BCG	Test Dates: 12/2/2021 - 1/30/2022	EUT Type: Tablet Device		Page 197 of 210

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	-	-	-80.50	5.72	32.22	-63.04	-13.00	-50.04
5610.0	V	-	-	-81.53	7.41	32.88	-62.38	-13.00	-49.38
7480.0	V	-	-	-82.09	10.69	35.60	-59.66	-13.00	-46.66
9350.0	V	-	-	-84.29	13.08	35.79	-59.47	-13.00	-46.47

Table 7-34. Antenna 2A 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	-	-	-80.48	5.20	31.72	-63.53	-13.00	-50.53
5647.5	V	-	-	-81.45	7.41	32.96	-62.30	-13.00	-49.30
7530.0	V	-	-	-82.29	10.92	35.63	-59.63	-13.00	-46.63
9412.5	V	-	-	-84.31	13.27	35.96	-59.30	-13.00	-46.30

Table 7-35. Antenna 2A 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	-	-	-80.66	5.61	31.95	-63.31	-13.00	-50.31
5685.0	V	-	-	-81.36	7.67	33.31	-61.95	-13.00	-48.95
7580.0	V	-	-	-82.38	10.84	35.46	-59.79	-13.00	-46.79

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

FCC ID: BCGA2589		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-02.BCG	Test Dates: 12/2/2021 - 1/30/2022	EUT Type: Tablet Device	Page 198 of 210

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 [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3704.8	V	-	-	-78.27	4.03	32.76	-62.50	-13.00	-49.50
5557.2	V	-	-	-79.66	7.51	34.85	-60.41	-13.00	-47.41
7409.6	V	-	-	-80.18	10.99	37.81	-57.45	-13.00	-44.45

Table 7-37. Antenna 2A 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 [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3760.0	V	-	-	-78.78	4.45	32.67	-62.59	-13.00	-49.59
5640.0	V	-	-	-80.52	8.81	35.29	-59.97	-13.00	-46.97
7520.0	V	-	-	-80.51	11.16	37.65	-57.60	-13.00	-44.60

Table 7-38. Antenna 2A 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 [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3815.2	V	353	106	-78.58	4.81	33.23	-62.03	-13.00	-49.03
5722.8	V	-	-	-79.87	7.69	34.82	-60.43	-13.00	-47.43
7630.4	V	-	-	-80.82	11.73	37.91	-57.35	-13.00	-44.35
9538.0	V	-	-	-81.60	15.05	40.45	-54.80	-13.00	-41.80

Table 7-39. Antenna 2A Radiated Spurious Data (WCDMA PCS – High Channel)

FCC ID: BCGA2589		PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-02.BCG	Test Dates: 12/2/2021 - 1/30/2022	EUT Type: Tablet Device		Page 199 of 210

7.7.3 Antenna 3A – 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	351	67	-76.96	5.05	35.09	-60.17	-13.00	-47.17
5580.0	V	-	-	-81.56	7.11	32.55	-62.71	-13.00	-49.71
7440.0	V	-	-	-82.95	10.20	34.25	-61.00	-13.00	-48.00
9300.0	V	-	-	-83.97	11.73	34.76	-60.50	-13.00	-47.50

Table 7-40. Antenna 3A 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	286	73	-77.77	5.32	34.55	-60.70	-13.00	-47.70
5647.5	V	-	-	-81.69	7.63	32.94	-62.32	-13.00	-49.32
7530.0	V	-	-	-82.73	10.42	34.69	-60.57	-13.00	-47.57
9412.5	V	-	-	-84.08	12.52	35.44	-59.82	-13.00	-46.82

Table 7-41. Antenna 3A 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	339	70	-76.21	5.21	36.00	-59.26	-13.00	-46.26
5715.00	V	-	-	-81.99	8.04	33.05	-62.21	-13.00	-49.21
7620.00	V	351	85	-81.92	10.67	35.75	-59.51	-13.00	-46.51
9525.00	V	-	-	-84.37	12.85	35.48	-59.78	-13.00	-46.78
11430.00	V	-	-	-84.99	14.50	36.51	-58.75	-13.00	-45.75
13335.00	V	-	-	-84.66	16.72	39.06	-56.20	-13.00	-43.20

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

FCC ID: BCGA2589		PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C211150079-02.BCG	Test Dates: 12/2/2021 - 1/30/2022	EUT Type: Tablet Device		Page 200 of 210

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	-	-	-80.51	5.72	32.21	-63.05	-13.00	-50.05
5610.0	V	-	-	-81.41	7.41	33.00	-62.26	-13.00	-49.26
7480.0	V	-	-	-82.18	10.69	35.51	-59.75	-13.00	-46.75

Table 7-43. Antenna 3A 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	-	-	-80.54	5.20	31.66	-63.59	-13.00	-50.59
5647.5	V	-	-	-81.42	7.41	32.99	-62.27	-13.00	-49.27
7530.0	V	-	-	-82.32	10.92	35.60	-59.66	-13.00	-46.66

Table 7-44. Antenna 3A 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	-	-	-80.91	5.61	31.70	-63.56	-13.00	-50.56
5685.0	V	-	-	-81.54	7.67	33.13	-62.13	-13.00	-49.13
7580.0	V	-	-	-82.29	10.84	35.55	-59.70	-13.00	-46.70

Table 7-45. Antenna 3A 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 [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3704.8	V	-	-	-77.53	4.03	33.50	-61.76	-13.00	-48.76
5557.2	V	-	-	-79.60	7.51	34.91	-60.35	-13.00	-47.35
7409.6	V	-	-	-80.31	10.99	37.68	-57.58	-13.00	-44.58

Table 7-46. Antenna 3A 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 [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3760.0	V	-	-	-78.68	4.45	32.77	-62.49	-13.00	-49.49
5640.0	V	-	-	-80.76	8.81	35.05	-60.21	-13.00	-47.21
7520.0	V	-	-	-80.71	11.16	37.45	-57.80	-13.00	-44.80

Table 7-47. Antenna 3A 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 [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3815.2	V	-	-	-79.00	4.81	32.81	-62.45	-13.00	-49.45
5722.8	V	-	-	-79.79	7.69	34.90	-60.35	-13.00	-47.35
7630.4	V	-	-	-80.63	11.73	38.10	-57.16	-13.00	-44.16

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

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7.7.4 Antenna 1A – 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	288	228	-77.35	4.18	33.83	-61.43	-13.00	-48.43
5580.0	V	-	-	-79.95	8.27	35.32	-59.94	-13.00	-46.94
7440.0	V	-	-	-80.08	10.59	37.51	-57.75	-13.00	-44.75
9300.0	V	-	-	-80.90	14.26	40.36	-54.90	-13.00	-41.90

Table 7-49. Antenna 1A 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	370	231	-78.71	4.44	32.73	-62.53	-13.00	-49.53
5647.5	V	247	149	-73.01	8.80	42.79	-52.47	-13.00	-39.47
7530.0	V	-	-	-80.83	11.10	37.27	-57.99	-13.00	-44.99
9412.5	V	-	-	-80.46	13.56	40.10	-55.16	-13.00	-42.16
11295.0	V	-	-	-81.86	16.94	42.08	-53.18	-13.00	-40.18

Table 7-50. Antenna 1A 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	-	-	-79.13	4.73	32.60	-62.66	-13.00	-49.66
5715.00	V	-	-	-79.15	7.79	35.64	-59.62	-13.00	-46.62
7620.00	V	-	-	-81.02	11.70	37.68	-57.57	-13.00	-44.57

Table 7-51. Antenna 1A 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 [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3740.0	V	-	-	-80.54	5.72	32.18	-63.08	-13.00	-50.08
5610.0	V	-	-	-81.21	7.41	33.20	-62.06	-13.00	-49.06
7480.0	V	-	-	-82.11	10.69	35.58	-59.68	-13.00	-46.68

Table 7-52. Antenna 1A 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 [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3765.0	V	-	-	-80.57	5.20	31.63	-63.62	-13.00	-50.62
5647.5	V	-	-	-81.47	7.41	32.94	-62.32	-13.00	-49.32
7530.0	V	-	-	-82.25	10.92	35.67	-59.59	-13.00	-46.59

Table 7-53. Antenna 1A 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 [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3790.0	V	-	-	-80.69	5.61	31.92	-63.34	-13.00	-50.34
5685.0	V	-	-	-81.33	7.67	33.34	-61.92	-13.00	-48.92
7580.0	V	-	-	-82.12	10.84	35.72	-59.53	-13.00	-46.53

Table 7-54. Antenna 1A 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	-	-	-78.32	4.03	32.71	-62.55	-13.00	-49.55
5557.2	V	113	122	-72.98	7.51	41.53	-53.73	-13.00	-40.73
7409.6	V	-	-	-80.53	10.99	37.46	-57.80	-13.00	-44.80
9262.0	V	-	-	-80.65	14.17	40.52	-54.74	-13.00	-41.74
11114.4	V	-	-	-82.17	16.63	41.46	-53.80	-13.00	-40.80

Table 7-55. Antenna 1A 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	-	-	-78.22	4.45	33.23	-62.03	-13.00	-49.03
5640.0	V	109	121	-76.60	8.81	39.21	-56.05	-13.00	-43.05
7520.0	V	-	-	-80.41	11.16	37.75	-57.50	-13.00	-44.50
9400.0	V	-	-	-80.36	13.50	40.14	-55.12	-13.00	-42.12
11280.0	V	-	-	-81.59	16.76	42.17	-53.09	-13.00	-40.09

Table 7-56. Antenna 1A 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	-	-	-79.01	4.81	32.80	-62.46	-13.00	-49.46
5722.8	V	219	234	-78.10	7.69	36.59	-58.66	-13.00	-45.66
7630.4	V	-	-	-80.71	11.73	38.02	-57.24	-13.00	-44.24
9538.0	V	-	-	-81.72	15.05	40.33	-54.92	-13.00	-41.92
11445.6	V	-	-	-81.91	18.08	43.17	-52.08	-13.00	-39.08

Table 7-57. Antenna 1A 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

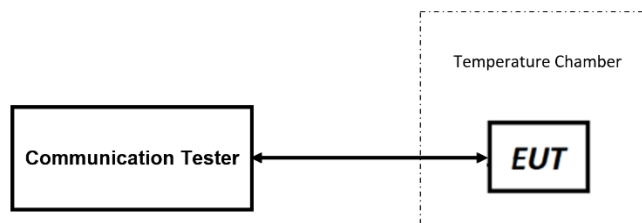


Figure 7-8. Test Instrument & Measurement Setup

Test Notes

1. All port were tested and only the worst case data were reported.
2. NR bands with wider bandwidths compared to respective LTE bands have been investigated and worst case was reported. NR Bands with equal or lower bandwidths to respective LTE bands are covered by their respective LTE Bands.


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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	1,859,999,997	1,904,999,997	-1	-1	-0.00000006
		- 20	1,859,999,994	1,904,999,998	-4	0	-0.00000023
		- 10	1,859,999,995	1,904,999,999	-3	0	-0.00000015
		0	1,859,999,995	1,904,999,997	-3	-1	-0.00000014
		+ 10	1,859,999,996	1,904,999,997	-2	-1	-0.00000013
		+ 20 (Ref)	1,859,999,998	1,904,999,999	0	0	0.00000000
		+ 30	1,859,999,996	1,904,999,997	-2	-1	-0.00000013
		+ 40	1,859,999,996	1,904,999,997	-2	-1	-0.00000013
Battery Endpoint	3.23	+ 20	1,859,999,996	1,904,999,997	-2	-2	-0.00000013

Table 7-58. 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

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	1,870,000,147	1,895,000,152	77	78	0.00000411
		- 20	1,870,000,147	1,895,000,147	78	73	0.00000416
		- 10	1,870,000,143	1,895,000,151	73	77	0.00000406
		0	1,870,000,150	1,895,000,150	81	76	0.00000432
		+ 10	1,870,000,143	1,895,000,148	73	74	0.00000389
		+ 20 (Ref)	1,870,000,070	1,895,000,074	0	0	0.00000000
		+ 30	1,870,000,137	1,895,000,149	68	74	0.00000393
		+ 40	1,870,000,145	1,895,000,147	75	73	0.00000400
		+ 50	1,870,000,144	1,895,000,147	74	73	0.00000398
Battery Endpoint	3.23	+ 20	1,870,000,142	1,895,000,148	72	74	0.00000389

Table 7-59. 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

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	1,852,400,026	1,907,600,020	13	11	0.00000072
		- 20	1,852,400,022	1,907,600,026	10	17	0.00000087
		- 10	1,852,400,022	1,907,600,028	9	18	0.00000096
		0	1,852,400,022	1,907,600,027	9	17	0.00000090
		+ 10	1,852,400,024	1,907,600,024	12	14	0.00000074
		+ 20 (Ref)	1,852,400,013	1,907,600,010	0	0	0.00000000
		+ 30	1,852,400,028	1,907,600,017	15	7	0.00000082
		+ 40	1,852,400,030	1,907,600,013	17	3	0.00000091
		+ 50	1,852,400,031	1,907,600,013	18	4	0.00000096
Battery Endpoint	3.23	+ 20	1,852,400,026	1,907,600,019	13	10	0.00000070


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: BCGA2589** complies with all the requirements of Part 24 of the FCC rules.

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