







Plot 7-220. PAR Plot (LTE Band 2 - 1.4MHz 256-QAM - Full RB Configuration)

FCC ID: BCGA2903	element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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FCC ID: BCGA2903	element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-224. PAR Plot (LTE Band 2 - 3MHz 256-QAM - Full RB Configuration)

FCC ID: BCGA2903	element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 122 of 217
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FCC ID: BCGA2903	element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 124 of 217
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Plot 7-228. PAR Plot (LTE Band 2 - 5MHz 256-QAM - Full RB Configuration)

FCC ID: BCGA2903	element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 125 of 217
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Plot 7-230. PAR Plot (LTE Band 2 - 10MHz 16-QAM - Full RB Configuration)

FCC ID: BCGA2903	element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-232. PAR Plot (LTE Band 2 - 10MHz 256-QAM - Full RB Configuration)

FCC ID: BCGA2903	element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 107 of 017
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Plot 7-234. PAR Plot (LTE Band 2 - 15MHz 16-QAM - Full RB Configuration)

FCC ID: BCGA2903	element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 129 of 217
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Plot 7-236. PAR Plot (LTE Band 2 - 15MHz 256-QAM - Full RB Configuration)

FCC ID: BCGA2903	element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 120 of 217
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Plot 7-238. PAR Plot (LTE Band 2 - 20MHz 16-QAM - Full RB Configuration)

FCC ID: BCGA2903	element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 140 of 217
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Plot 7-240. PAR Plot (LTE Band 2 - 20MHz 256-QAM - Full RB Configuration)

FCC ID: BCGA2903	element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 141 of 217
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NR Band n25







FCC ID: BCGA2903	element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-243. PAR Plot (NR Band n25 - 5MHz DFT-s-OFDM 16-QAM - Full RB)



Plot 7-244. PAR Plot (NR Band n25 - 5MHz DFT-s-OFDM 64-QAM - Full RB)

FCC ID: BCGA2903	element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 142 of 217
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Plot 7-245. PAR Plot (NR Band n25 - 5MHz DFT-s-OFDM 256-QAM - Full RB)



Plot 7-246. PAR Plot (NR Band n25 - 10MHz DFT-s-OFDM π/2 BPSK - Full RB)

FCC ID: BCGA2903	element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 144 of 217
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Plot 7-247. PAR Plot (NR Band n25 - 10MHz DFT-s-OFDM QPSK - Full RB)



Plot 7-248. PAR Plot (NR Band n25 - 10MHz DFT-s-OFDM 16-QAM - Full RB)

FCC ID: BCGA2903	element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 145 of 217
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Plot 7-249. PAR Plot (NR Band n25 - 10MHz DFT-s-OFDM 64-QAM - Full RB)



Plot 7-250. PAR Plot (NR Band n25 - 10MHz DFT-s-OFDM 256-QAM - Full RB)

FCC ID: BCGA2903	element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-251. PAR Plot (NR Band n25 - 15MHz DFT-s-OFDM π/2 BPSK - Full RB)



Plot 7-252. PAR Plot (NR Band n25 - 15MHz DFT-s-OFDM QPSK - Full RB)

FCC ID: BCGA2903	element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-253. PAR Plot (NR Band n25 - 15MHz DFT-s-OFDM 16-QAM - Full RB)



Plot 7-254. PAR Plot (NR Band n25 - 15MHz DFT-s-OFDM 64-QAM - Full RB)

FCC ID: BCGA2903	element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 149 of 217
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Plot 7-255. PAR Plot (NR Band n25 - 15MHz DFT-s-OFDM 256-QAM - Full RB)



Plot 7-256. PAR Plot (NR Band n25 - 20MHz DFT-s-OFDM π/2 BPSK - Full RB)

FCC ID: BCGA2903	element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 140 of 217
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Plot 7-257. PAR Plot (NR Band n25 - 20MHz DFT-s-OFDM QPSK - Full RB)



Plot 7-258. PAR Plot (NR Band n25 - 20MHz DFT-s-OFDM 16-QAM - Full RB)

FCC ID: BCGA2903	element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-259. PAR Plot (NR Band n25 - 20MHz DFT-s-OFDM 64-QAM - Full RB)



Plot 7-260. PAR Plot (NR Band n25 - 20MHz DFT-s-OFDM 256-QAM - Full RB)

FCC ID: BCGA2903	element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-261. PAR Plot (NR Band n25 - 25MHz DFT-s-OFDM π/2 BPSK - Full RB)



Plot 7-262. PAR Plot (NR Band n25 - 25MHz DFT-s-OFDM QPSK - Full RB)

FCC ID: BCGA2903	element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 150 of 017
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Plot 7-263. PAR Plot (NR Band n25 - 25MHz DFT-s-OFDM 16-QAM - Full RB)



Plot 7-264. PAR Plot (NR Band n25 - 25MHz DFT-s-OFDM 64-QAM - Full RB)

FCC ID: BCGA2903	element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-265. PAR Plot (NR Band n25 - 25MHz DFT-s-OFDM 256-QAM - Full RB)



Plot 7-266. PAR Plot (NR Band n25 - 30MHz DFT-s-OFDM π/2 BPSK - Full RB)

FCC ID: BCGA2903	element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 154 of 217
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Plot 7-267. PAR Plot (NR Band n25 - 30MHz DFT-s-OFDM QPSK - Full RB)



Plot 7-268. PAR Plot (NR Band n25 - 30MHz DFT-s-OFDM 16-QAM - Full RB)

FCC ID: BCGA2903	element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-269. PAR Plot (NR Band n25 - 30MHz DFT-s-OFDM 64-QAM - Full RB)



Plot 7-270. PAR Plot (NR Band n25 - 30MHz DFT-s-OFDM 256-QAM - Full RB)

FCC ID: BCGA2903	element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-271. PAR Plot (NR Band n25 - 35MHz DFT-s-OFDM π/2 BPSK - Full RB)



Plot 7-272. PAR Plot (NR Band n25 - 35MHz DFT-s-OFDM QPSK - Full RB)

FCC ID: BCGA2903	element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-273. PAR Plot (NR Band n25 - 35MHz DFT-s-OFDM 16-QAM - Full RB)



Plot 7-274. PAR Plot (NR Band n25 - 35MHz DFT-s-OFDM 64-QAM - Full RB)

FCC ID: BCGA2903	element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-275. PAR Plot (NR Band n25 - 35MHz DFT-s-OFDM 256-QAM - Full RB)



Plot 7-276. PAR Plot (NR Band n25 - 40MHz DFT-s-OFDM π/2 BPSK - Full RB)

FCC ID: BCGA2903	element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 150 of 217
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Plot 7-277. PAR Plot (NR Band n25 - 40MHz DFT-s-OFDM QPSK - Full RB)



Plot 7-278. PAR Plot (NR Band n25 - 40MHz DFT-s-OFDM 16-QAM - Full RB)

FCC ID: BCGA2903	element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-279. PAR Plot (NR Band n25 - 40MHz DFT-s-OFDM 64-QAM - Full RB)



Plot 7-280. PAR Plot (NR Band n25 - 40MHz DFT-s-OFDM 256-QAM - Full RB)

FCC ID: BCGA2903	element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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NR Band n2







FCC ID: BCGA2903	element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-283. PAR Plot (NR Band n2 - 5MHz DFT-s-OFDM 16-QAM - Full RB)



Plot 7-284. PAR Plot (NR Band n2 - 5MHz DFT-s-OFDM 64-QAM - Full RB)

FCC ID: BCGA2903	element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-285. PAR Plot (NR Band n2 - 5MHz DFT-s-OFDM 256-QAM - Full RB)



Plot 7-286. PAR Plot (NR Band n2 - 10MHz DFT-s-OFDM π/2 BPSK - Full RB)

FCC ID: BCGA2903	element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 164 of 017
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Plot 7-287. PAR Plot (NR Band n2 - 10MHz DFT-s-OFDM QPSK - Full RB)



Plot 7-288. PAR Plot (NR Band n2 - 10MHz DFT-s-OFDM 16-QAM - Full RB)

FCC ID: BCGA2903	element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-289. PAR Plot (NR Band n2 - 10MHz DFT-s-OFDM 64-QAM - Full RB)



Plot 7-290. PAR Plot (NR Band n2 - 10MHz DFT-s-OFDM 256-QAM - Full RB)

FCC ID: BCGA2903	element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-291. PAR Plot (NR Band n2 - 15MHz DFT-s-OFDM π/2 BPSK - Full RB)



Plot 7-292. PAR Plot (NR Band n2 - 15MHz DFT-s-OFDM QPSK - Full RB)

FCC ID: BCGA2903	element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager		
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Plot 7-293. PAR Plot (NR Band n2 - 15MHz DFT-s-OFDM 16-QAM - Full RB)



Plot 7-294. PAR Plot (NR Band n2 - 15MHz DFT-s-OFDM 64-QAM - Full RB)

FCC ID: BCGA2903	element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager		
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Plot 7-295. PAR Plot (NR Band n2 - 15MHz DFT-s-OFDM 256-QAM - Full RB)



Plot 7-296. PAR Plot (NR Band n2 - 20MHz DFT-s-OFDM π/2 BPSK - Full RB)

FCC ID: BCGA2903	element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager		
Test Report S/N:	Test Dates:	EUT Type:	Dage 160 of 217		
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Plot 7-297. PAR Plot (NR Band n2 - 20MHz DFT-s-OFDM QPSK - Full RB)



Plot 7-298. PAR Plot (NR Band n2 - 20MHz DFT-s-OFDM 16-QAM - Full RB)

FCC ID: BCGA2903	element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager		
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Plot 7-299. PAR Plot (NR Band n2 - 20MHz DFT-s-OFDM 64-QAM - Full RB)



Plot 7-300. PAR Plot (NR Band n2 - 20MHz DFT-s-OFDM 256-QAM - Full RB)

FCC ID: BCGA2903	element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager	
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WCDMA PCS



Plot 7-301. PAR Plot (WCDMA, Ch. 9400)

FCC ID: BCGA2903	element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager	
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7.6 Radiated Power (EIRP) §24.232(c)

324.202(0)

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:

EIRP = PMeas - LC + 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: BCGA2903	element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager	
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Test Notes

- 1. The EUT was tested in all possible test configurations. The worst case emissions are reported with the EUT modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 2. This unit was tested with its standard battery.
- 3. The Level (dBm) readings in the table were taken with a correction table loaded into the base station simulator. The correction table was used to account for the signal attenuation in the connecting cable between the transmitter and antenna.
- 4. The Ant. Gains (GT) are listed in dBi.
- 5. This device employs UMTS technology with 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".

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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]
		1850.7	1.80	1/0	25.42	27.22	0.527	33.01	-5.79
N	QPSK	1882.5	1.80	1/0	25.38	27.18	0.522	33.01	-5.83
НИ		1914.3	1.80	1/5	25.39	27.19	0.524	33.01	-5.82
.4	16-QAM	1882.5	1.80	1/5	24.71	26.51	0.448	33.01	-6.50
64-QAM 256-QAM	1882.5	1.80	1/0	23.64	25.44	0.350	33.01	-7.57	
	256-QAM	1850.7	1.80	1/0	20.47	22.27	0.169	33.01	-10.74
		1851.5	1.80	1/0	25.29	27.09	0.512	33.01	-5.92
Z	QPSK	1882.5	1.80	1/0	25.31	27.11	0.514	33.01	-5.90
H		1913.5	1.80	1/0	25.18	26.98	0.499	33.01	-6.03
3 N	16-QAM	1882.5	1.80	1/0	24.70	26.50	0.447	33.01	-6.51
	64-QAM	1851.5	1.80	1/0	23.69	25.49	0.354	33.01	-7.52
	256-QAM	1851.5	1.80	1/0	20.49	22.29	0.169	33.01	-10.72
		1852.5	1.80	1/0	25.43	27.23	0.528	33.01	-5.78
Z	QPSK	1882.5	1.80	1/0	25.46	27.26	0.532	33.01	-5.75
H		1912.5	1.80	1/0	25.15	26.95	0.495	33.01	-6.06
5 N	16-QAM	1882.5	1.80	1/0	24.84	26.64	0.461	33.01	-6.37
	64-QAM	1852.5	1.80	1/0	23.65	25.45	0.351	33.01	-7.56
	256-QAM	1852.5	1.80	1/0	20.55	22.35	0.172	33.01	-10.66
		1855.0	1.80	1/0	25.24	27.04	0.506	33.01	-5.97
łz	QPSK	1882.5	1.80	1/49	25.40	27.20	0.525	33.01	-5.81
WH		1910.0	1.80	1/49	25.23	27.03	0.505	33.01	-5.98
10	16-QAM	1910.0	1.80	1/49	24.81	26.61	0.458	33.01	-6.40
	64-QAM	1855.0	1.80	1/0	23.62	25.42	0.348	33.01	-7.59
	256-QAM	1855.0	1.80	1/49	20.48	22.28	0.169	33.01	-10.73
		1857.5	1.80	1/0	25.22	27.02	0.504	33.01	-5.99
4z	QPSK	1882.5	1.80	1/0	25.29	27.09	0.512	33.01	-5.92
MF		1907.5	1.80	1/0	25.03	26.83	0.482	33.01	-6.18
15	16-QAM	1857.5	1.80	1/74	24.52	26.32	0.429	33.01	-6.69
	64-QAM	1857.5	1.80	1/74	23.49	25.29	0.338	33.01	-7.72
	256-QAM	1882.5	1.80	1/0	20.37	22.17	0.165	33.01	-10.84
	0.001/	1860.0	1.80	1/0	25.19	26.99	0.500	33.01	-6.02
¹ 고	QPSK	1882.5	1.80	1/0	24.97	26.77	0.475	33.01	-6.24
MF	10.0111	1905.0	1.80	1/0	25.22	27.02	0.504	33.01	-5.99
20	16-QAM	1882.5	1.80	1/0	24.82	26.62	0.459	33.01	-6.39
	64-QAM	1905.0	1.80	1/0	23.55	25.35	0.343	33.01	-7.66
	256-QAM	1905.0	1.80	1/0	20.43	22.23	0.167	33.01	-10.78

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

FCC ID: BCGA2903	element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dage 175 of 017	
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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]
		1850.7	1.80	1 / 0	25.46	27.26	0.532	33.01	-5.75
	QPSK	1880.0	1.80	1 / 0	25.40	27.20	0.525	33.01	-5.81
1 / MH7	Hz 16-OAM	1909.3	1.80	1 / 5	25.18	26.98	0.499	33.01	-6.03
1.4 10112	16-QAM	1880.0	1.80	1 / 0	24.64	26.44	0.441	33.01	-6.57
	64-QAM 256-QAM	1850.7	1.80	1/3	23.51	25.31	0.340	33.01	-7.70
	256-QAM	1850.7	1.80	1 / 0	20.62	22.42	0.175	33.01	-10.59
		1851.5	1.80	1 / 0	25.18	26.98	0.499	33.01	-6.03
	QPSK	1880.0	1.80	1 / 0	25.30	27.10	0.513	33.01	-5.91
3 MU7		1908.5	1.80	1 / 0	25.11	26.91	0.491	33.01	-6.10
5 11112	16-QAM	1880.0	1.80	1 / 0	24.71	26.51	0.448	33.01	-6.50
	64-QAM	1851.5	1.80	1 / 0	23.65	25.45	0.351	33.01	-7.56
	256-QAM	1851.5	1.80	1 / 0	20.53	22.33	0.171	33.01	-10.68
		1852.5	1.80	1 / 0	25.41	27.21	0.526	33.01	-5.80
	QPSK	1880.0	1.80	1 / 0	25.41	27.21	0.526	33.01	-5.80
5 MU7	z <u>16-QAM</u> 64-QAM	1907.5	1.80	1 / 0	25.07	26.87	0.486	33.01	-6.14
		1880.0	1.80	1 / 0	24.87	26.67	0.465	33.01	-6.34
		1852.5	1.80	1 / 12	23.66	25.46	0.352	33.01	-7.55
256-	256-QAM	1880.0	1.80	1 / 0	20.43	22.23	0.167	33.01	-10.78
		1855.0	1.80	1 / 0	25.26	27.06	0.508	33.01	- <mark>5.9</mark> 5
	QPSK	1880.0	1.80	1 / 25	25.36	27.16	0.520	33.01	-5.85
10 MU7		1905.0	1.80	1 / 25	25.19	26.99	0.500	33.01	-6.02
	16-QAM	1880.0	1.80	1 / 25	24.65	26.45	0.442	33.01	-6.56
	64-QAM	1880.0	1.80	1 / 49	23.64	25.44	0.350	33.01	-7.57
	256-QAM	1880.0	1.80	1 / 0	20.53	22.33	0.171	33.01	-10.68
		1857.5	1.80	1 / 0	25.20	27.00	0.501	33.01	-6.01
	QPSK	1880.0	1.80	1 / 0	25.33	27.13	0.516	33.01	-5.88
15 MHz		1902.5	1.80	1 / 0	25.05	26.85	0.484	33.01	-6.16
10 10112	16-QAM	1902.5	1.80	1 / 0	24.49	26.29	0.426	33.01	-6.72
	64-QAM	1857.5	1.80	1 / 74	23.43	25.23	0.333	33.01	-7.78
256-QAM	1880.0	1.80	1 / 0	20.32	22.12	0.163	33.01	-10.89	
		1860.0	1.80	1 / 0	25.15	26.95	0.495	33.01	-6.06
	QPSK	1880.0	1.80	1 / 0	24.93	26.73	0.471	33.01	-6.28
20 MHz		1900.0	1.80	1 / 0	25.25	27.05	0.507	33.01	-5.96
	16-QAM	1880.0	1.80	1 / 0	24.76	26.56	0.453	33.01	-6.45
	64-QAM	1860.0	1.80	1 / 0	23.50	25.30	0.339	33.01	-7.71
	256-QAM	1860.0	1.80	1 / 99	20.35	22.15	0.164	33.01	-10.86

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

FCC ID: BCGA2903	element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dage 176 of 017	
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NR Band n25

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
		1852.5	1.80	1/1	25.65	27.45	0.556	33.01	-5.56
	π/2 BPSK	1882.5	1.80	1 / 12	25.67	27.47	0.559	33.01	-5.54
		1912.5	1.80	1 / 12	25.58	27.38	0.547	33.01	-5.63
		1852.5	1.80	1/1	25.66	27.46	0.557	33.01	-5.55
5 MHz	QPSK	1882.5	1.80	1/1	25.70	27.50	0.562	33.01	-5.51
		1912.5	1.80	1/1	25.66	27.46	0.557	33.01	-5.56
	16-QAM	1882.5	1.80	1/23	24.79	26.59	0.456	33.01	-6.42
	64-QAM	1882.5	1.80	1/1	23.34	25.14	0.327	33.01	-7.87
	256-QAM	1852.5	1.80	1/1	21.16	22.96	0.198	33.01	-10.05
		1855.0	1.80	1/1	25.65	27.45	0.557	33.01	-5.56
	π/2 BPSK	1882.5	1.80	1/25	25.68	27.48	0.559	33.01	-5.53
		1910.0	1.80	1/1	25.61	27.41	0.551	33.01	-5.60
		1855.0	1.80	1/1	25.70	27.50	0.562	33.01	-5.51
10 MHz	OPSK	1882.5	1.80	1/50	25.70	27.50	0.562	33.01	-5.51
10 11112	QI OIX	1910.0	1.80	1/1	25.66	27.46	0.557	33.01	-5.55
	16-OAM	1882.5	1.80	1/50	24.69	26.49	0.445	33.01	-6.52
	64 OAM	1855.0	1.00	1/1	24.09	20.49	0.326	33.01	7.99
	D4-QAM	1000.0	1.00	1/1	23.33	20.15	0.320	33.01	-7.00
	200-QAIVI	1002.5	1.00	1/1	21.05	22.00	0.193	33.01	-10.16
		1857.5	1.80	1/1	25.68	27.48	0.560	33.01	-5.53
	π/2 BPSK	1882.5	1.80	1/1	25.60	27.40	0.549	33.01	-5.61
		1907.5	1.80	1/1	25.61	27.41	0.551	33.01	-5.60
		1857.5	1.80	1/1	25.70	27.50	0.562	33.01	-5.51
15 MHz	QPSK	1882.5	1.80	1/1	25.67	27.47	0.559	33.01	-5.54
		1907.5	1.80	1/1	25.64	27.44	0.555	33.01	-5.57
	16-QAM	1882.5	1.80	1/1	24.81	26.61	0.458	33.01	-6.40
	64-QAM	1882.5	1.80	1/1	23.32	25.12	0.325	33.01	-7.89
	256-QAM	1882.5	1.80	1/77	21.26	23.06	0.202	33.01	-9.95
		1860.0	1.80	1 / 50	25.70	27.50	0.562	33.01	-5.51
	π/2 BPSK	1882.5	1.80	1 / 50	25.64	27.44	0.555	33.01	-5.57
20 MHz QPSK 16-QAM 64-QAM		1905.0	1.80	1 / 50	25.63	27.43	0.553	33.01	-5.58
		1860.0	1.80	1 / 50	25.66	27.46	0.557	33.01	-5.55
	QPSK	1882.5	1.80	1/1	25.63	27.43	0.553	33.01	-5.58
		1905.0	1.80	1/1	25.66	27.46	0.557	33.01	-5.56
	16-QAM	1860.0	1.80	1/1	24.81	26.61	0.458	33.01	-6.40
	64-QAM	1860.0	1.80	1/1	23.30	25.10	0.324	33.01	-7.91
	256-QAM	1860.0	1.80	1/1	21.26	23.06	0.202	33.01	-9.95
		1862.5	1.80	1/131	25.61	27.41	0.551	33.01	-5.60
	π/2 BPSK	1882.5	1.80	1/1	25.70	27.50	0.562	33.01	-5.51
		1902.5	1.80	1/64	25.64	27.44	0.555	33.01	-5.57
		1862.5	1.80	1/131	25.70	27.50	0.562	33.01	-5.51
25 MHz	OPSK	1882.5	1.80	1/1	25.63	27.43	0.554	33.01	-5.58
20 11112	QPSK	1902.5	1.80	1/64	25.67	27.43	0.558	33.01	-5.54
	16-OAM	1882.5	1.80	1/1	24.71	26.51	0.447	33.01	-6.50
	64 OAM	1962.5	1.00	1/1	24.71	20.01	0.227	33.01	-0.30
	256 OAM	1962.5	1.00	1/1	23.34	23.14	0.327	33.01	-7.07
	230-QAM	1965.0	1.00	1/159	21.20	23.00	0.203	33.01	-5.93
		1005.0	1.80	1/158	25.04	27.44	0.555	33.01	-5.57
	II/2 BPSK	1002.0	1.80	1/150	25.00	27.40	0.557	33.01	-5.55
		1900.0	1.80	1/158	25.70	27.50	0.562	33.01	-0.51
20 14	0501	1865.0	1.80	1/158	25.65	27.45	0.555	33.01	-5.57
30 MHZ	QPSK	1882.5	1.80	1/1	25.64	27.44	0.555	33.01	-5.57
	10 5 11 1	1900.0	1.80	1 / 158	25.69	27.49	0.561	33.01	-5.52
	16-QAM	1865.0	1.80	1 / 158	24.89	26.69	0.466	33.01	-6.32
	64-QAM	1882.5	1.80	1/1	23.31	25.11	0.324	33.01	-7.90
	256-QAM	1865.0	1.80	1/1	21.32	23.12	0.205	33.01	-9.89
		1867.5	1.80	1/1	25.67	27.47	0.558	33.01	-5.54
	π/2 BPSK	1882.5	1.80	1/1	25.63	27.43	0.553	33.01	-5.58
		1897.5	1.80	1/1	25.62	27.42	0.552	33.01	-5.59
35 MHz		1867.5	1.80	1 / 90	25.70	27.50	0.562	33.01	-5.51
	QPSK	1882.5	1.80	1 / 90	25.58	27.38	0.547	33.01	-5.63
		1897.5	1.80	1/1	25.56	27.36	0.544	33.01	-5.65
	16-QAM	1867.5	1.80	1 / 90	24.76	26.56	0.453	33.01	-6.45
	64-QAM	1882.5	1.80	1 / 186	23.37	25.17	0.329	33.01	-7.84
	256-QAM	1867.5	1.80	1 / 186	21.58	23.38	0.218	33.01	-9.63
		1870.0	1.80	1/1	25.52	27.32	0.539	33.01	-5.69
	π/2 BPSK	1882.5	1.80	1/1	25.70	27.50	0.562	33.01	-5.51
		1895.0	1.80	1/1	25.43	27.23	0.528	33.01	-5.78
		1870.0	1.80	1 / 108	25.53	27.33	0.540	33.01	-5.68
40 MHz	QPSK	1882.5	1.80	1 / 108	25.58	27.38	0.547	33.01	-5.63
		1895.0	1.80	1/1	25.53	27,33	0.541	33.01	-5.68
	16-QAM	1895.0	1.80	1/108	24.69	26.49	0.446	33.01	-6.52
	64-0AM	1870.0	1.80	1/108	23.42	25.22	0.333	33.01	-7 79
	256-QAM	1870.0	1.80	1/108	21.33	23.13	0.206	33.01	-9.88
	200-024101	10/0.0	1.00	1/100	21.55	20.10	0.200	33.01	-3.00

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

FCC ID: BCGA2903	element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dogo 177 of 217	
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NR Band n2

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
		1852.5	1.80	1/1	25.66	27.46	0.557	33.01	-5.55
	π/2 BPSK	1880.0	1.80	1 / 12	25.62	27.42	0.552	33.01	-5.59
		1907.5	1.80	1/1	25.68	27.48	0.560	33.01	-5.53
		1852.5	1.80	1/1	25.65	27.45	0.556	33.01	-5.56
5 MHz	QPSK	1880.0	1.80	1/1	25.64	27.44	0.555	33.01	-5.57
		1907.5	1.80	1/1	25.70	27.50	0.562	33.01	-5.51
	16-QAM	1880.0	1.80	1 / 12	24.91	26.71	0.468	33.01	-6.30
	64-QAM	1880.0	1.80	1 / 23	23.29	25.09	0.323	33.01	-7.92
	256-QAM	1907.5	1.80	1/1	21.13	22.93	0.196	33.01	-10.08
		1855.0	1.80	1/1	25.66	27.46	0.557	33.01	-5.55
	π/2 BPSK	1880.0	1.80	1/1	25.63	27.43	0.553	33.01	-5.58
		1905.0	1.80	1 / 25	25.66	27.46	0.558	33.01	-5.55
		1855.0	1.80	1 / 25	25.68	27.48	0.560	33.01	-5.53
10 MHz	Hz QPSK	1880.0	1.80	1/1	25.67	27.47	0.559	33.01	-5.54
16-QAM 64-QAM		1905.0	1.80	1 / 25	25.70	27.50	0.562	33.01	-5.51
	16-QAM	1905.0	1.80	1 / 25	24.80	26.60	0.457	33.01	-6.41
	64-QAM	1880.0	1.80	1/1	23.33	25.13	0.325	33.01	-7.89
	256-QAM	1855.0	1.80	1 / 25	21.11	22.91	0.195	33.01	-10.10
	π/2 BPSK	1857.5	1.80	1 / 36	25.69	27.49	0.562	33.01	-5.52
		1880.0	1.80	1 / 77	25.67	27.47	0.558	33.01	-5.54
		1902.5	1.80	1 / 36	25.67	27.47	0.559	33.01	-5.54
		1857.5	1.80	1 / 77	25.64	27.44	0.554	33.01	-5.57
15 MHz	QPSK	1880.0	1.80	1 / 36	25.70	27.50	0.562	33.01	-5.51
		1902.5	1.80	1/1	25.70	27.50	0.562	33.01	-5.51
	16-QAM	1857.5	1.80	1 / 77	24.71	26.51	0.448	33.01	-6.50
	64-QAM	1857.5	1.80	1 / 36	23.21	25.01	0.317	33.01	-8.00
	256-QAM	1857.5	1.80	1 / 36	21.26	23.06	0.202	33.01	-9.95
		1860.0	1.80	1 / 50	25.70	27.50	0.562	33.01	-5.51
	π/2 BPSK	1880.0	1.80	1 / 104	25.63	27.43	0.553	33.01	-5.58
20 MHz		1900.0	1.80	1 / 104	25.67	27.47	0.558	33.01	-5.54
		1860.0	1.80	1 / 50	25.66	27.46	0.557	33.01	-5.55
	QPSK	1880.0	1.80	1 / 104	25.69	27.49	0.561	33.01	-5.52
		1900.0	1.80	1 / 104	25.68	27.48	0.559	33.01	-5.53
	16-QAM	1880.0	1.80	1 / 104	25.04	26.84	0.484	33.01	-6.17
	64-QAM	1880.0	1.80	1/1	23.27	25.07	0.321	33.01	-7.94
	256-QAM	1860.0	1.80	1/1	21.18	22.98	0.199	33.01	-10.03

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

FCC ID: BCGA2903	element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager				
Test Report S/N:	Test Dates:	EUT Type:	Dage 170 of 017				
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WCDMA PCS

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1852.40	WCDMA1900	25.68	1.80	27.48	0.560	33.01	-5.53
1880.00	WCDMA1900	25.57	1.80	27.37	0.546	33.01	-5.64
1907.60	WCDMA1900	25.70	1.80	27.50	0.562	33.01	-5.51

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

FCC ID: BCGA2903		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 170 of 217
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7.6.2 Antenna 2b – EIRP

LTE Band 25

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
		1850.7	-3.20	1/0	23.95	20.75	0.119	33.01	-12.26
N	QPSK	1882.5	-3.20	1/0	23.98	20.78	0.120	33.01	-12.23
НИ		1914.3	-3.20	1/0	23.75	20.55	0.114	33.01	-12.46
.4	16-QAM	1914.3	-3.20	1/0	23.23	20.03	0.101	33.01	-12.98
1	64-QAM	1914.3	-3.20	1/3	22.01	18.81	0.076	33.01	-14.20
	256-QAM	1882.5	-3.20	1/0	19.03	15.83	0.038	33.01	-17.18
		1851.5	-3.20	1/0	23.66	20.46	0.111	33.01	-12.55
2	QPSK	1882.5	-3.20	1/0	23.95	20.75	0.119	33.01	-12.26
UH:		1913.5	-3.20	1/0	23.74	20.54	0.113	33.01	-12.47
3 N	16-QAM	1882.5	-3.20	1/0	23.26	20.06	0.101	33.01	-12.95
	64-QAM	1851.5	-3.20	1/0	22.13	18.93	0.078	33.01	-14.08
	256-QAM	1882.5	-3.20	1/0	19.11	15.91	0.039	33.01	-17.10
		1852.5	-3.20	1/0	23.91	20.71	0.118	33.01	-12.30
Z	QPSK	1882.5	-3.20	1/0	24.09	20.89	0.123	33.01	-12.12
H		1912.5	-3.20	1/0	23.77	20.57	0.114	33.01	-12.44
5 N	16-QAM	1882.5	-3.20	1/0	23.47	20.27	0.106	33.01	-12.74
	64-QAM	1882.5	-3.20	1/0	22.33	19.13	0.082	33.01	-13.88
	256-QAM	1882.5	-3.20	1/0	19.07	15.87	0.039	33.01	-17.14
		1855.0	-3.20	1/0	23.69	20.49	0.112	33.01	-12.52
Z	QPSK	1882.5	-3.20	1 / 25	23.97	20.77	0.119	33.01	-12.24
MH		1910.0	-3.20	1 / 25	23.77	20.57	0.114	33.01	-12.44
10	16-QAM	1910.0	-3.20	1 / 25	23.31	20.11	0.103	33.01	-12.90
``	64-QAM	1882.5	-3.20	1/49	22.13	18.93	0.078	33.01	-14.08
	256-QAM	1882.5	-3.20	1/0	19.17	15.97	0.040	33.01	-17.04
		1857.5	-3.20	1/0	23.69	20.49	0.112	33.01	-12.52
4z	QPSK	1882.5	-3.20	1/0	23.83	20.63	0.116	33.01	-12.38
MF		1907.5	-3.20	1/0	23.62	20.42	0.110	33.01	-12.59
15	16-QAM	1907.5	-3.20	1/0	23.11	19.91	0.098	33.01	-13.10
	64-QAM	1857.5	-3.20	1/0	21.91	18.71	0.074	33.01	-14.30
	256-QAM	1882.5	-3.20	1/0	18.97	15.77	0.038	33.01	-17.24
	0.501/	1860.0	-3.20	1/0	23.74	20.54	0.113	33.01	-12.47
4z	QPSK	1882.5	-3.20	1/0	23.55	20.35	0.108	33.01	-12.66
M	10.0111	1905.0	-3.20	1/50	23.73	20.53	0.113	33.01	-12.48
20	16-QAM	1882.5	-3.20	1/0	23.34	20.14	0.103	33.01	-12.87
	64-QAM	1882.5	-3.20	1/0	22.33	19.13	0.082	33.01	-13.88
	256-QAM	1860.0	-3.20	1/0	18.95	15.75	0.038	33.01	-17.26

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

FCC ID: BCGA2903	element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 100 of 017
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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]
		1850.7	-3.20	1/3	23.64	20.44	0.111	33.01	-12.57
	QPSK	1880.0	-3.20	1/0	23.71	20.51	0.112	33.01	-12.50
1 4 MU-		1909.3	-3.20	1/5	23.37	20.17	0.104	33.01	-12.84
1.4 MILTZ	16-QAM	1880.0	-3.20	1/3	22.91	19.71	0.094	33.01	-13.30
	64-QAM	1850.7	-3.20	1/0	21.80	18.60	0.072	33.01	-14.41
	256-QAM	1880.0	-3.20	1/0	18.80	15.60	0.036	33.01	-17.41
		1851.5	-3.20	1/0	23.43	20.23	0.105	33.01	-12.78
	QPSK	1880.0	-3.20	1/0	23.59	20.39	0.109	33.01	-12.62
3 MH7		1908.5	-3.20	1/0	23.32	20.12	0.103	33.01	-12.89
0 111 12	16-QAM	1880.0	-3.20	1/0	22.96	19.76	0.095	33.01	-13.25
	64-QAM	1851.5	-3.20	1/0	21.89	18.69	0.074	33.01	-14.32
	256-QAM	1880.0	-3.20	1/0	18.95	15.75	0.038	33.01	-17.26
		1852.5	-3.20	1/0	23.69	20.49	0.112	33.01	-12.52
	QPSK IHz 16-QAM	1880.0	-3.20	1/0	23.76	20.56	0.114	33.01	-12.45
5 MHz		1907.5	-3.20	1/0	23.40	20.20	0.105	33.01	-12.81
0 111 12		1880.0	-3.20	1/0	22.95	19.75	0.094	33.01	-13.26
	64-QAM	1880.0	-3.20	1/0	21.93	18.73	0.075	33.01	-14.28
	256-QAM	1852.5	-3.20	1 / 24	18.87	15.67	0.037	33.01	-17.34
		1855.0	-3.20	1/0	23.44	20.24	0.106	33.01	-12.77
	QPSK	1880.0	-3.20	1 / 25	23.69	20.49	0.112	33.01	-12.52
10 MHz		1905.0	-3.20	1 / 25	23.49	20.29	0.107	33.01	-12.72
10 11112	16-QAM	1880.0	-3.20	1 / 25	22.95	19.75	0.094	33.01	-13.26
	64-QAM	1855.0	-3.20	1/0	21.86	18.66	0.073	33.01	-14.35
	256-QAM	1880.0	-3.20	1/0	18.83	15.63	0.037	33.01	-17.38
		1857.5	-3.20	1/0	23.44	20.24	0.106	33.01	-12.77
	QPSK	1880.0	-3.20	1/0	23.54	20.34	0.108	33.01	-12.67
15 MHz		1902.5	-3.20	1/0	23.23	20.03	0.101	33.01	-12.98
10 11112	16-QAM	1880.0	-3.20	1/0	22.84	19.64	0.092	33.01	-13.37
	64-QAM	1857.5	-3.20	1/0	21.71	18.51	0.071	33.01	-14.50
	256-QAM	1880.0	-3.20	1/0	18.62	15.42	0.035	33.01	-17.59
		1860.0	-3.20	1/0	23.48	20.28	0.107	33.01	-12.73
	QPSK	1880.0	-3.20	1/0	23.21	20.01	0.100	33.01	-13.00
20 MHz		1900.0	-3.20	1 / 50	23.46	20.26	0.106	33.01	-12.75
	16-QAM	1880.0	-3.20	1/0	23.10	19.90	0.098	33.01	-13.11
	64-QAM	1880.0	-3.20	1/0	21.99	18.79	0.076	33.01	-14.22
	256-QAM	1860.0	-3.20	1/0	18.57	15.37	0.034	33.01	-17.64

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

FCC ID: BCGA2903	element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager				
Test Report S/N:	Test Dates:	EUT Type:	Dage 101 of 017				
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