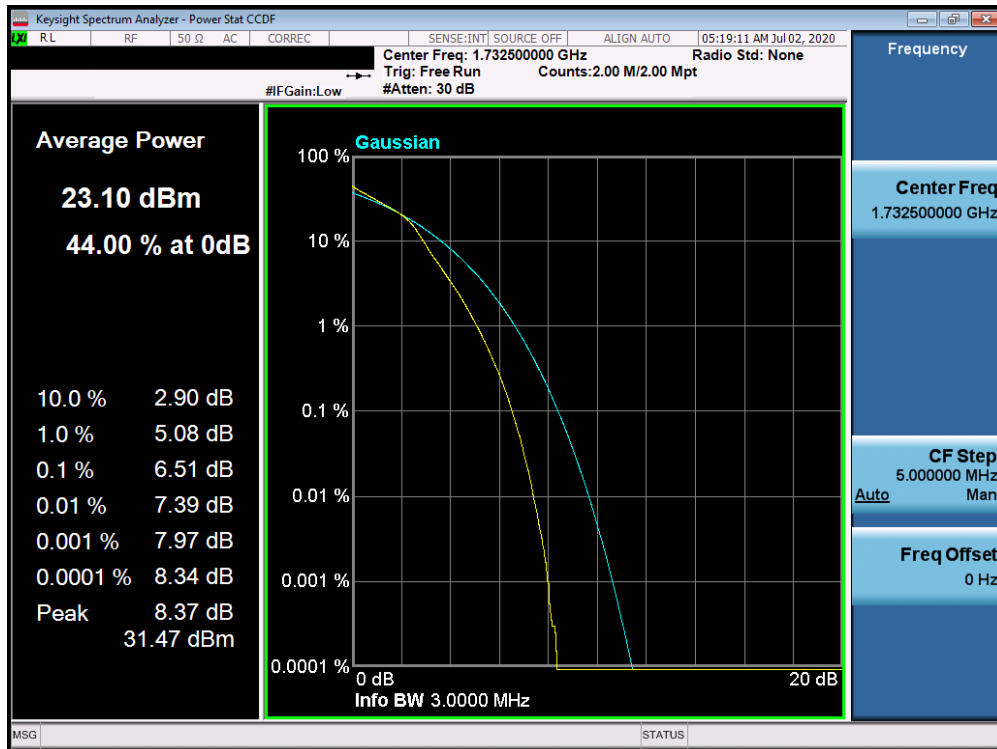
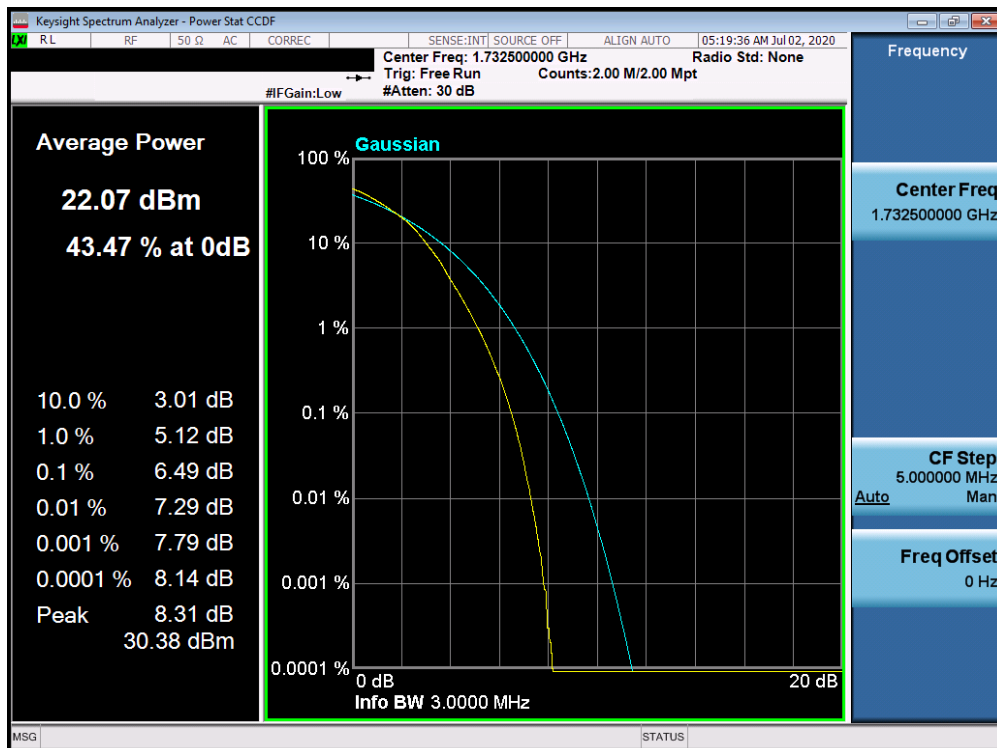


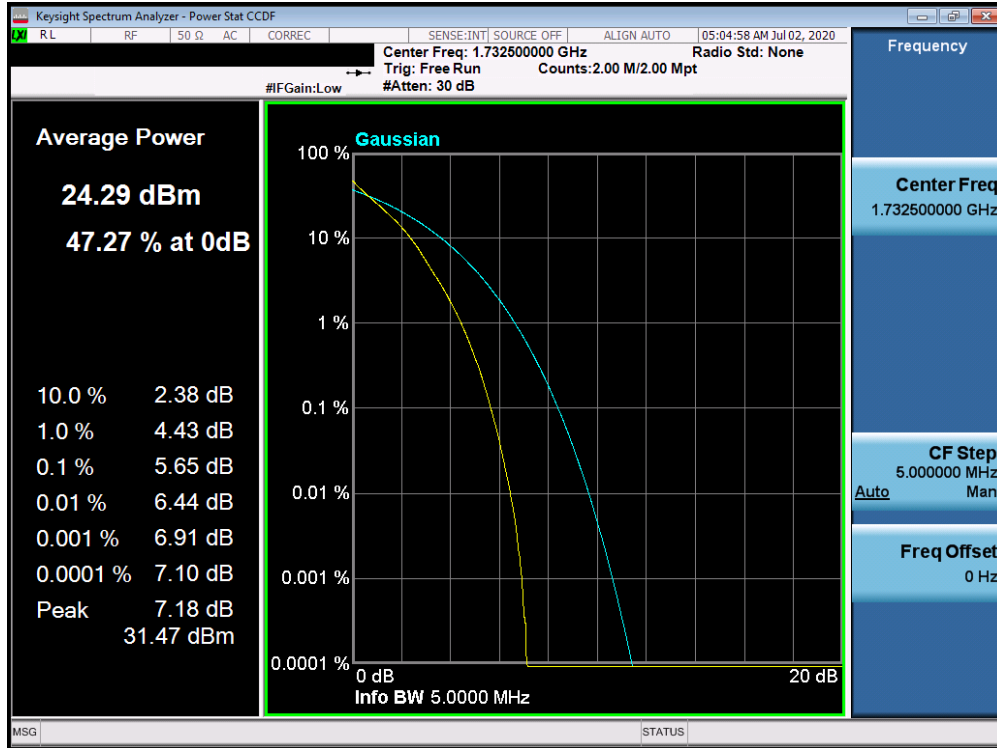


Plot 7-321. PAR Plot (Band 4 - 3.0MHz 16-QAM - Full RB Configuration)

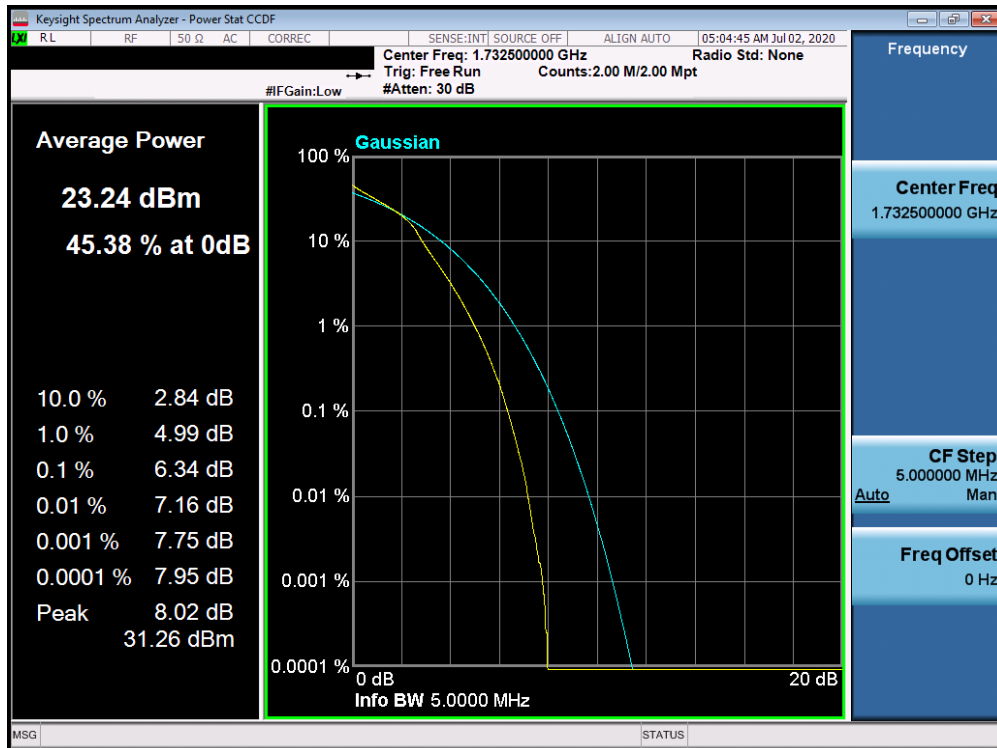


Plot 7-322. PAR Plot (Band 4 - 3.0MHz 64-QAM - Full RB Configuration)

FCC ID: BCGA2072	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 197 of 389

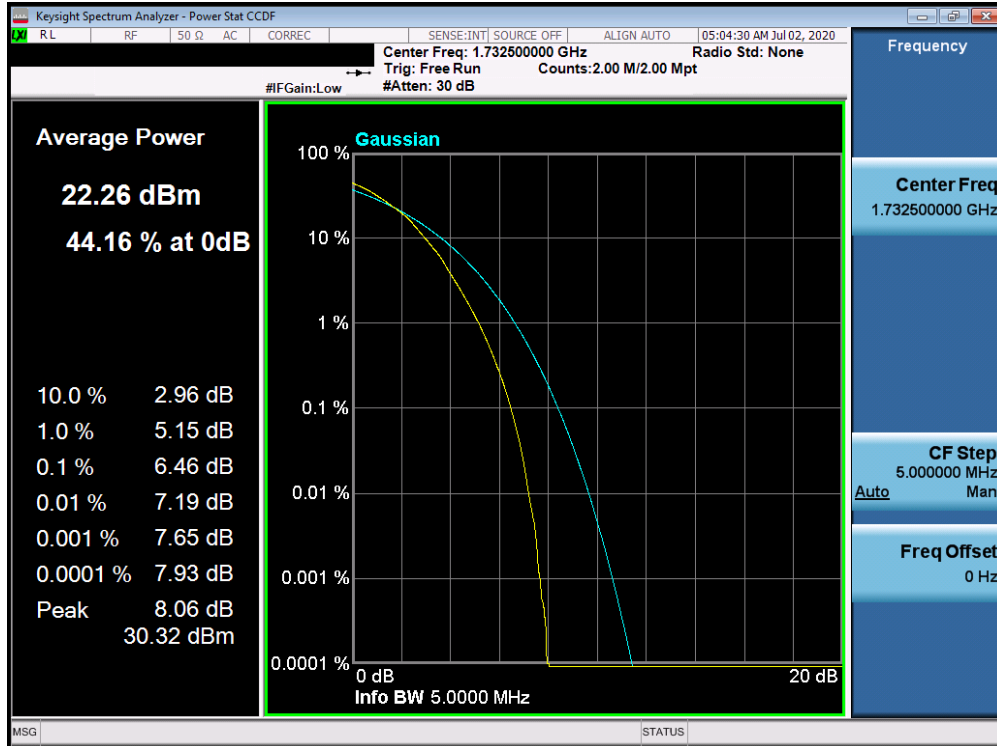


Plot 7-323. PAR Plot (Band 4 - 5.0MHz QPSK - Full RB Configuration)

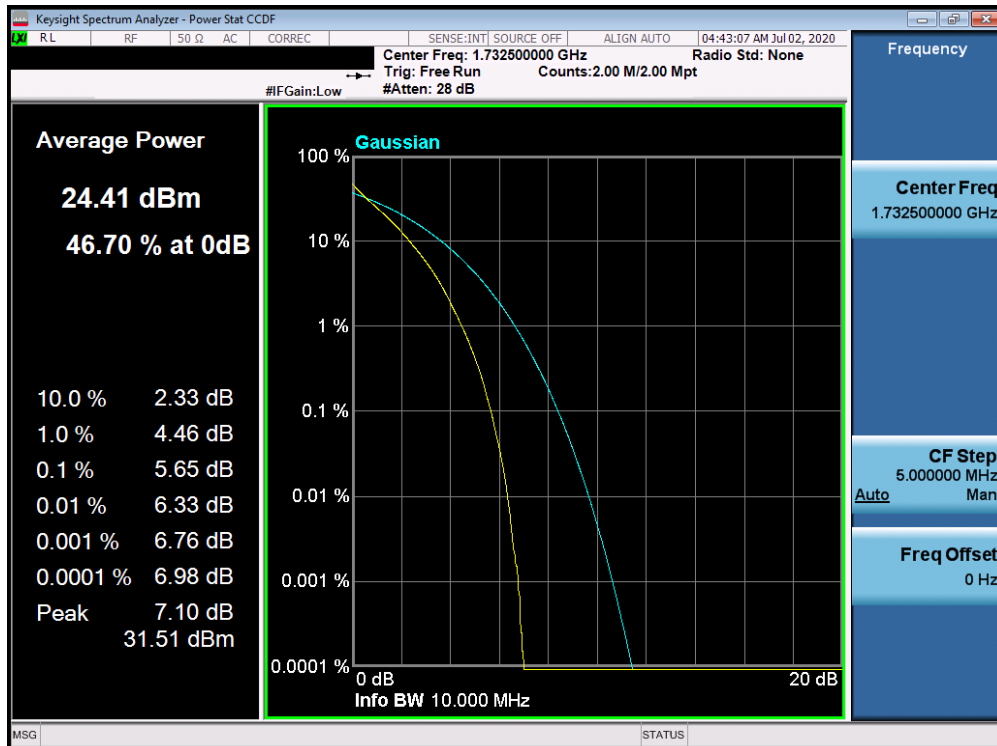


Plot 7-324. PAR Plot (Band 4 - 5.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCGA2072	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 198 of 389

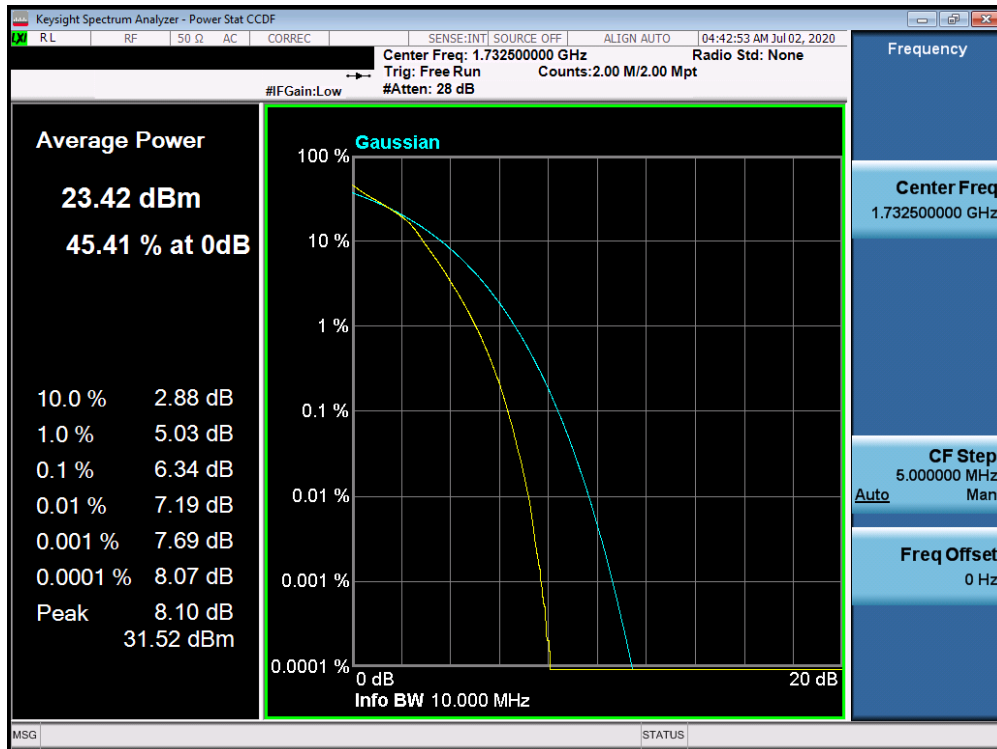


Plot 7-325. PAR Plot (Band 4 - 5.0MHz 64-QAM - Full RB Configuration)

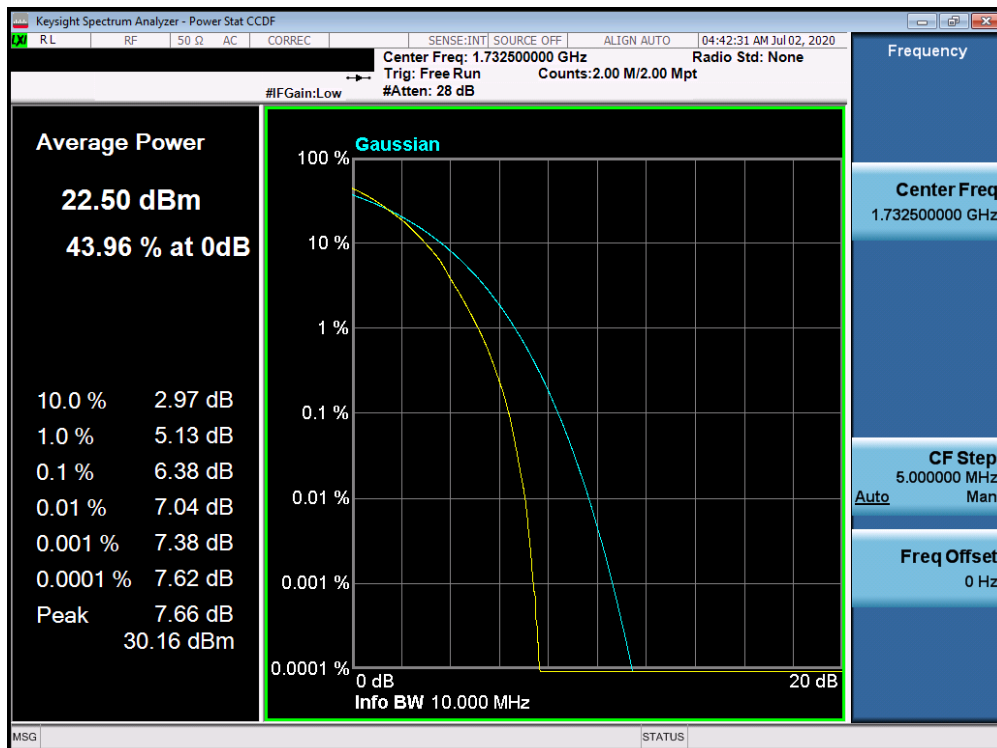


Plot 7-326. PAR Plot (Band 4 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2072	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 199 of 389

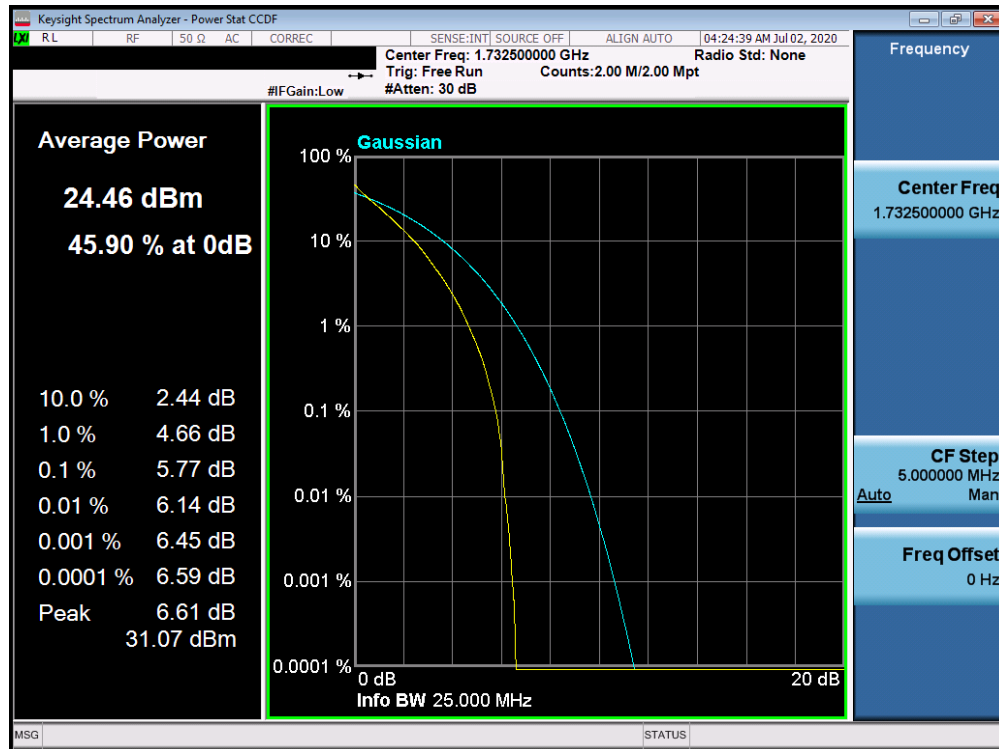


Plot 7-327. PAR Plot (Band 4 - 10.0MHz 16-QAM - Full RB Configuration)

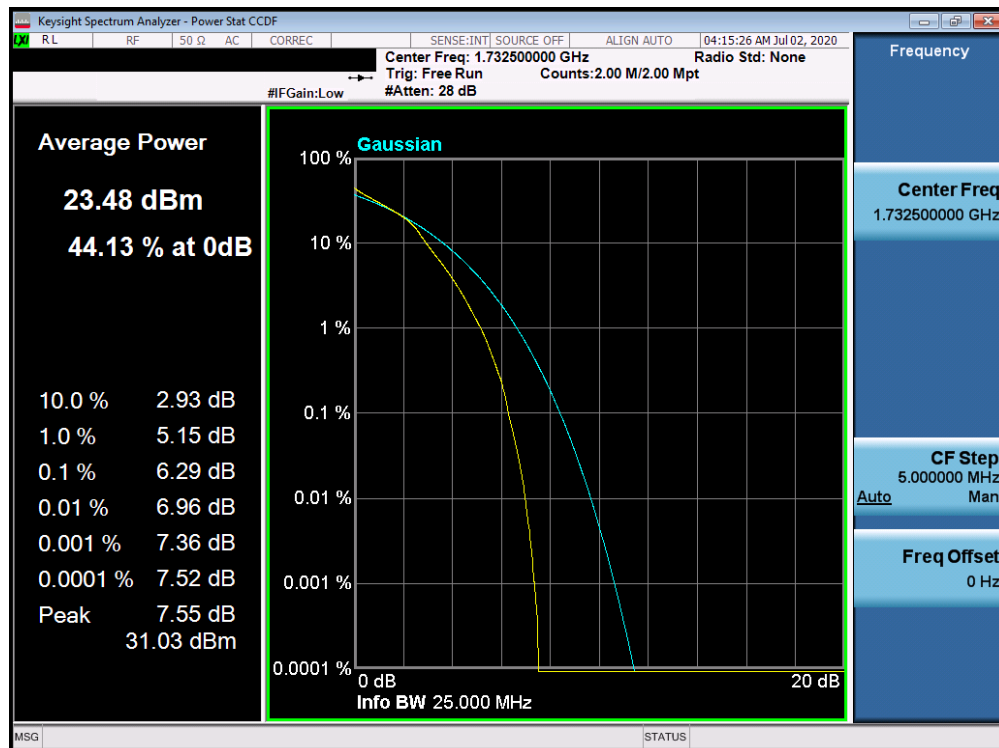


Plot 7-328. PAR Plot (Band 4 - 10.0MHz 64-QAM - Full RB Configuration)

FCC ID: BCGA2072	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 200 of 389

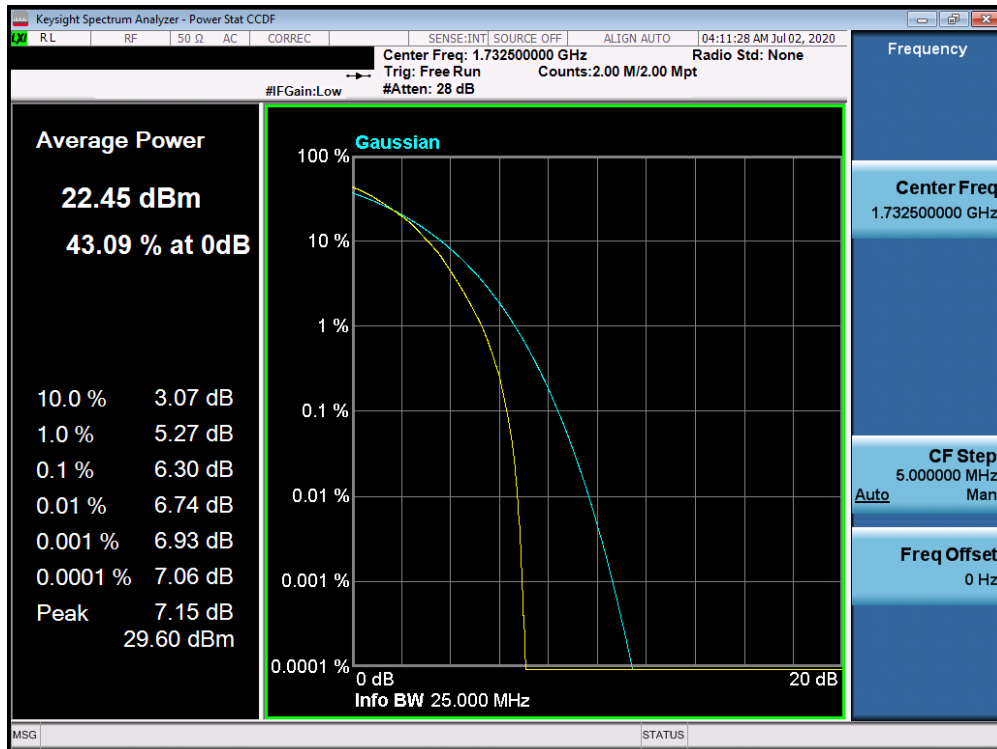


Plot 7-329. PAR Plot (Band 4 - 15.0MHz QPSK - Full RB Configuration)

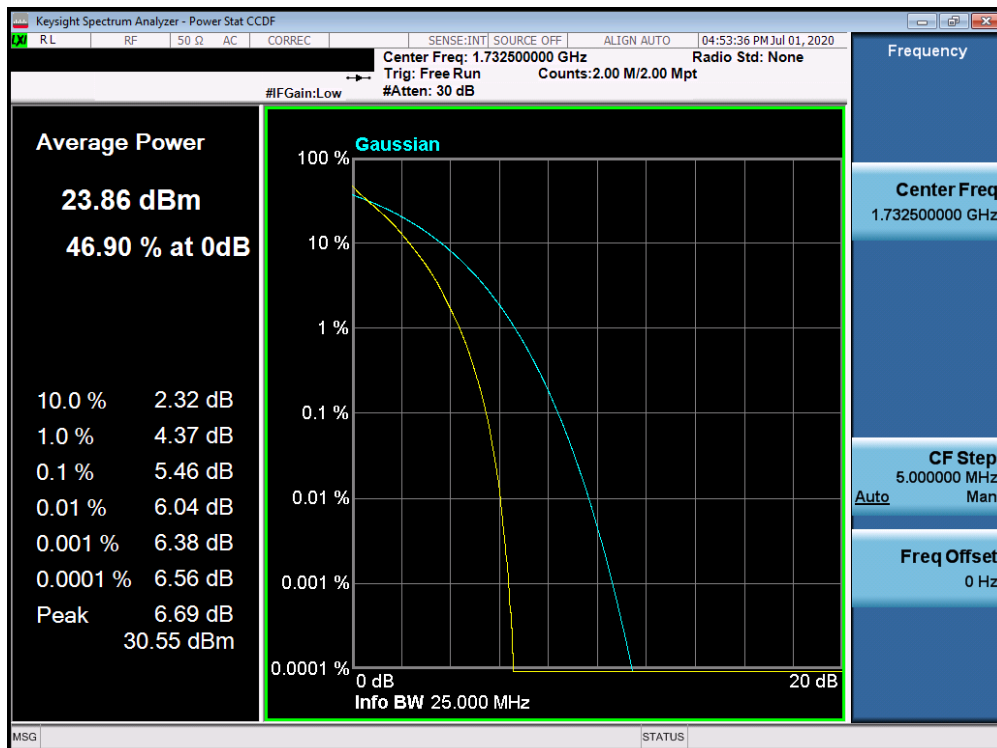


Plot 7-330. PAR Plot (Band 4 - 15.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCGA2072	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 201 of 389

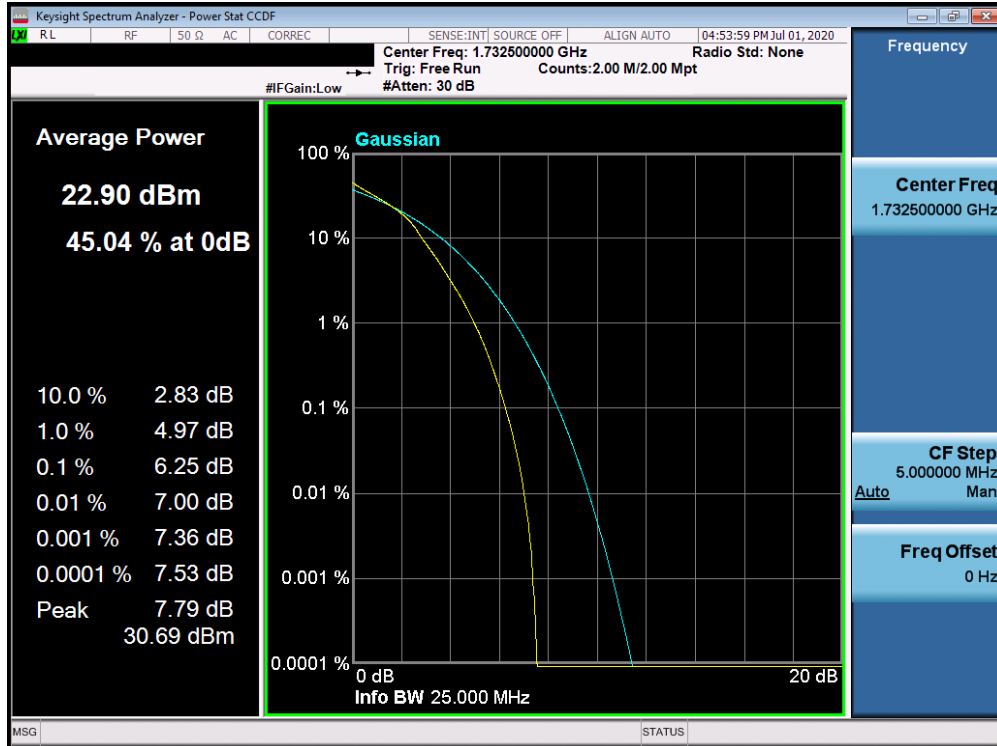


Plot 7-331. PAR Plot (Band 4 - 15.0MHz 64-QAM - Full RB Configuration)

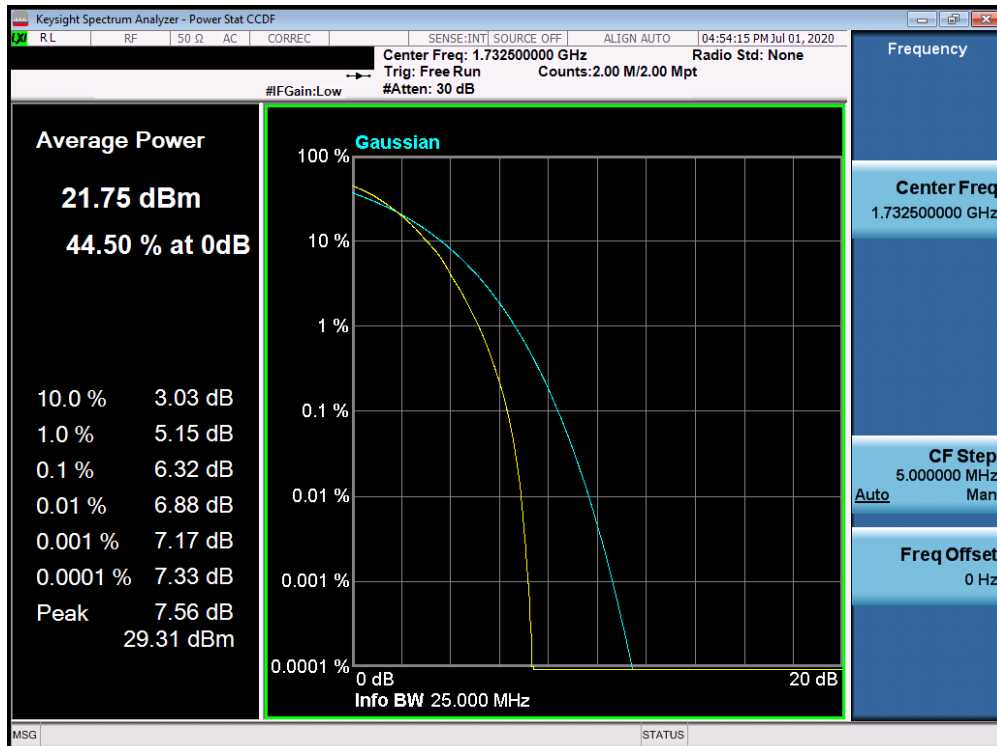


Plot 7-332. PAR Plot (Band 4 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2072	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 202 of 389



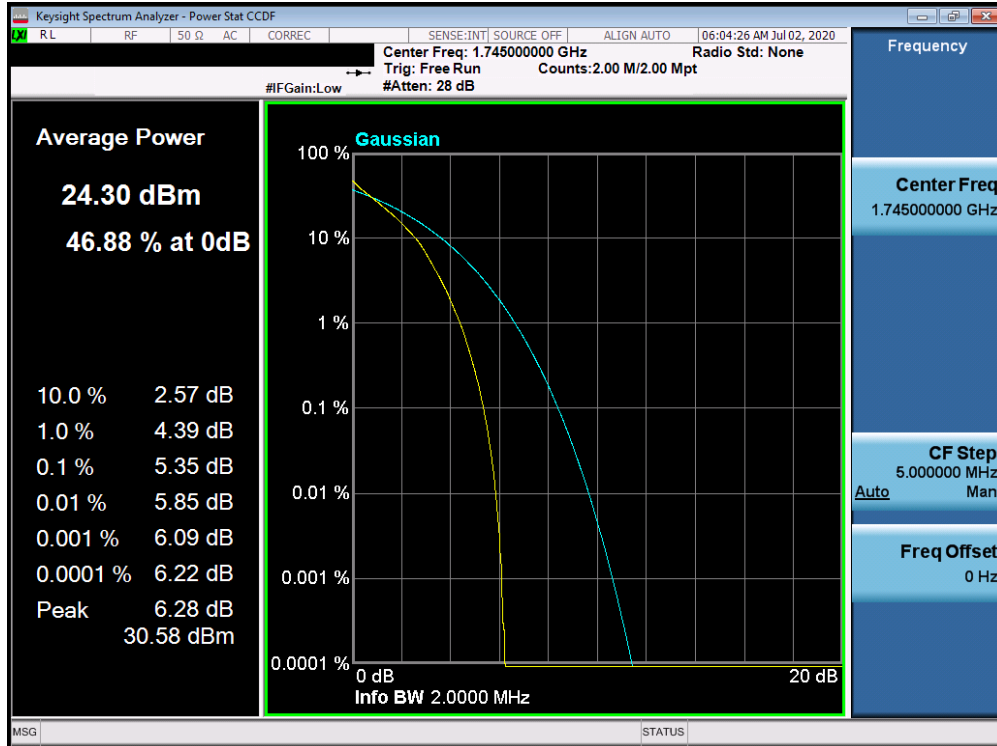
Plot 7-333. PAR Plot (Band 4 - 20.0MHz 16-QAM - Full RB Configuration)



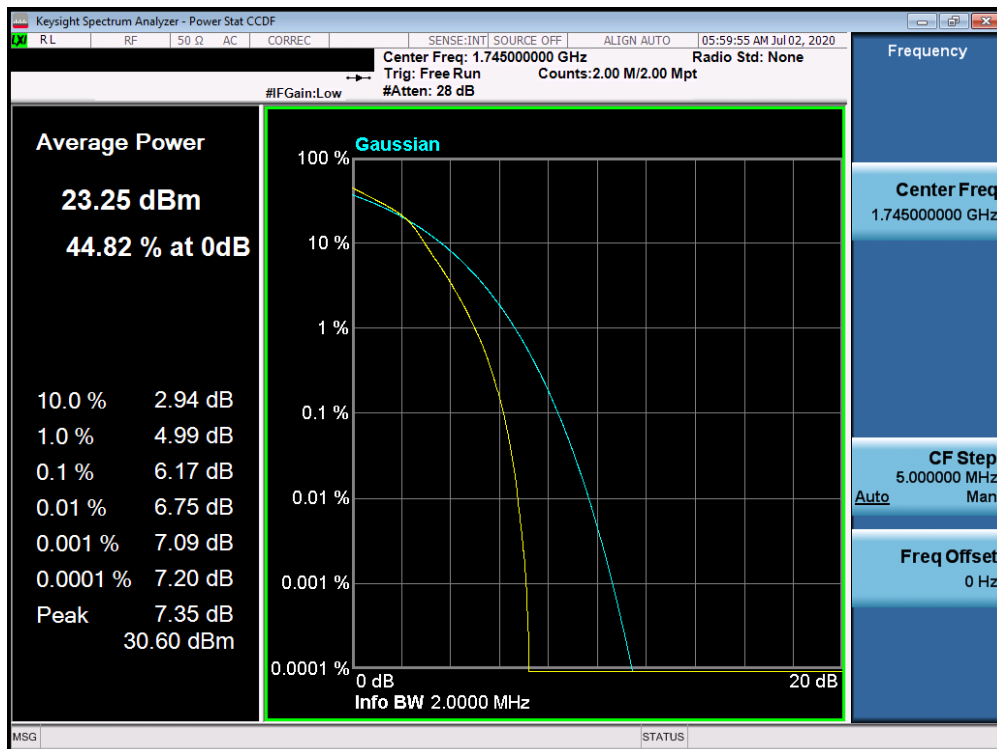
Plot 7-334. PAR Plot (Band 4 - 20.0MHz 64-QAM - Full RB Configuration)

FCC ID: BCGA2072	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 203 of 389

Band 66

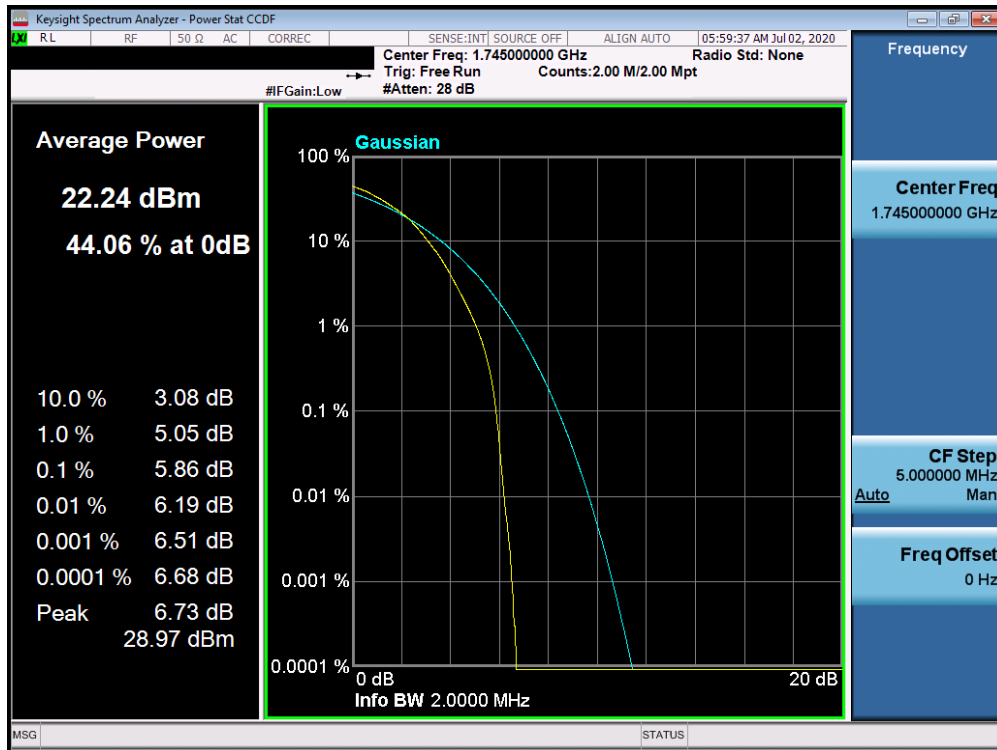


Plot 7-335. PAR Plot (Band 66 - 1.4MHz QPSK - Full RB Configuration)

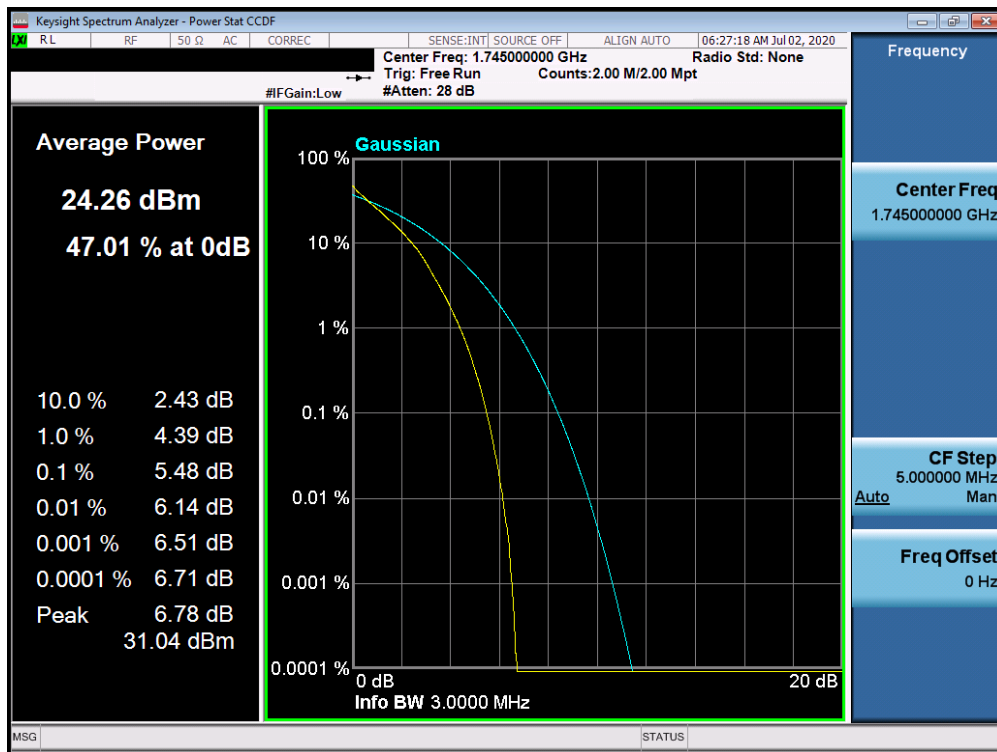


Plot 7-336. PAR Plot (Band 66 - 1.4MHz 16-QAM - Full RB Configuration)

FCC ID: BCGA2072	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 204 of 389

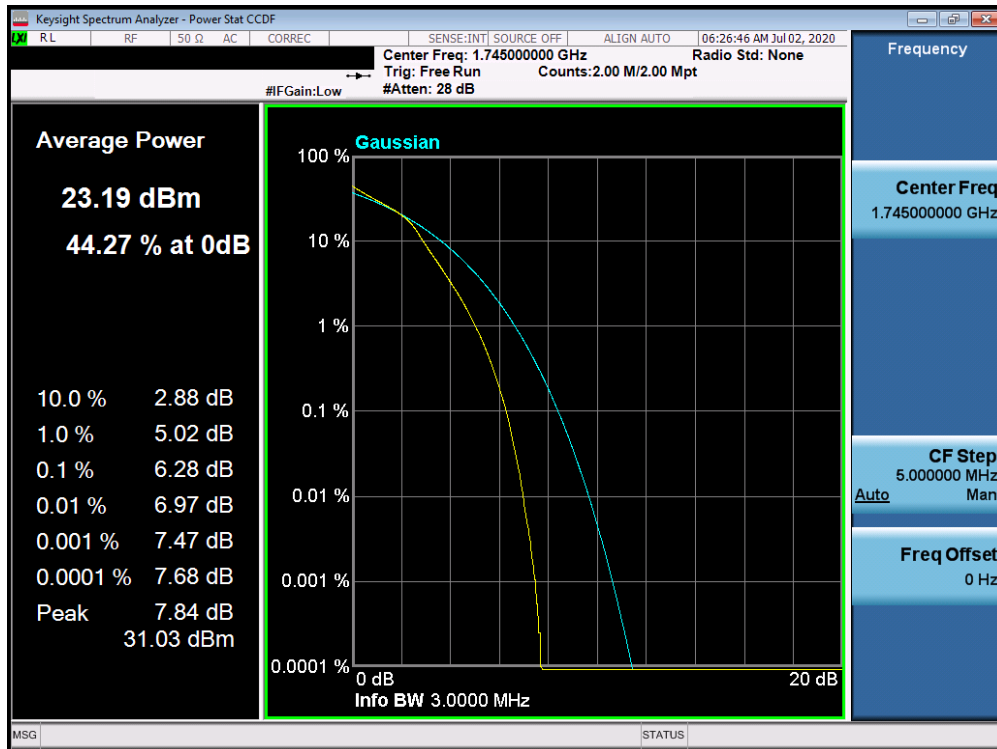


Plot 7-337. PAR Plot (Band 66 - 1.4MHz 64-QAM - Full RB Configuration)

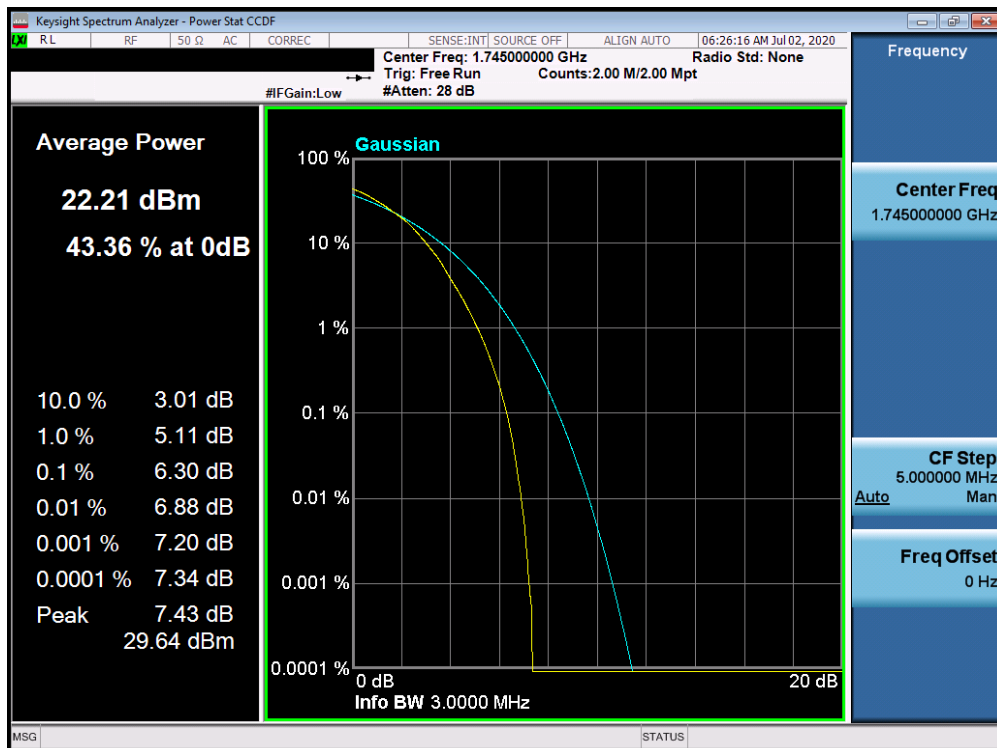


Plot 7-338. PAR Plot (Band 66 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2072	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 205 of 389

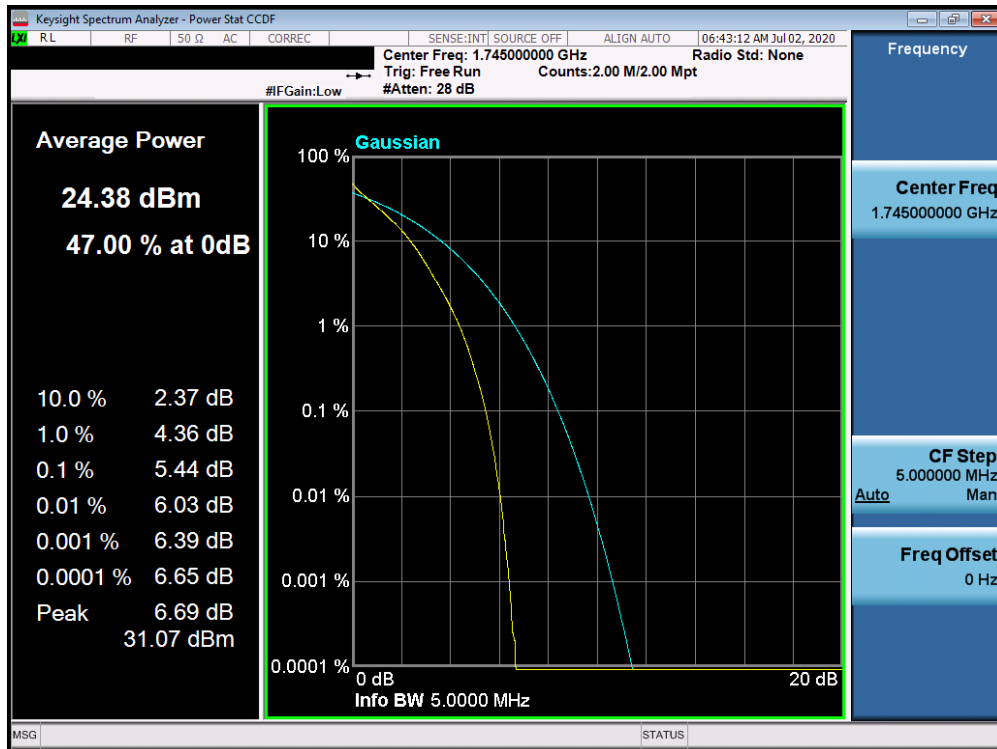


Plot 7-339. PAR Plot (Band 66 - 3.0MHz 16-QAM - Full RB Configuration)

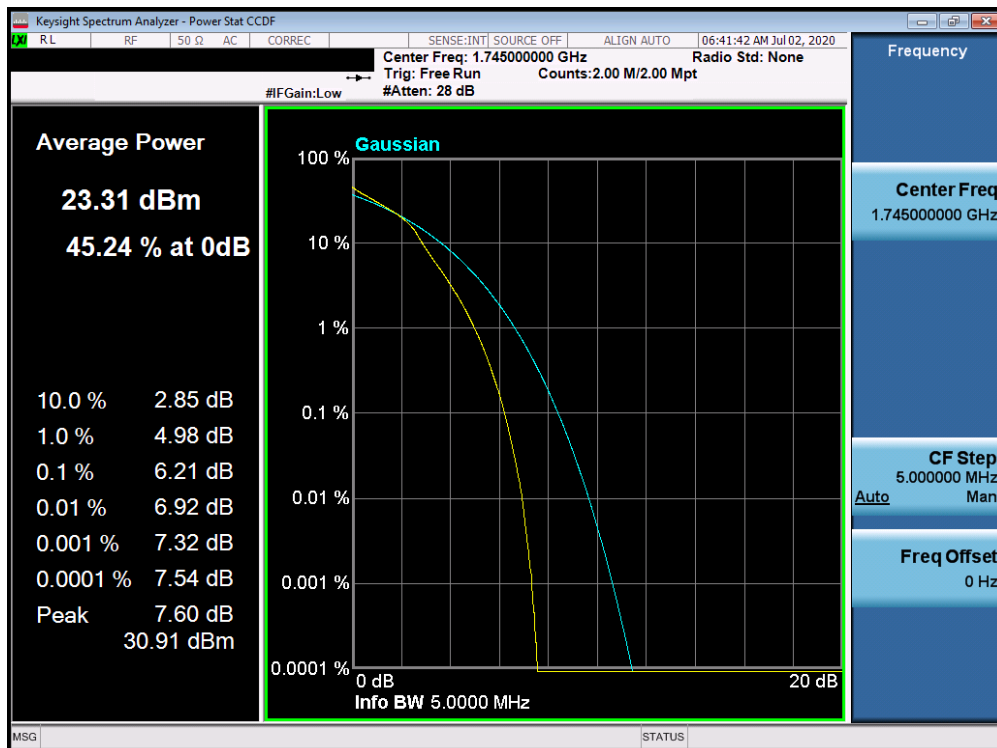


Plot 7-340. PAR Plot (Band 66 - 3.0MHz 64-QAM - Full RB Configuration)

FCC ID: BCGA2072	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 206 of 389

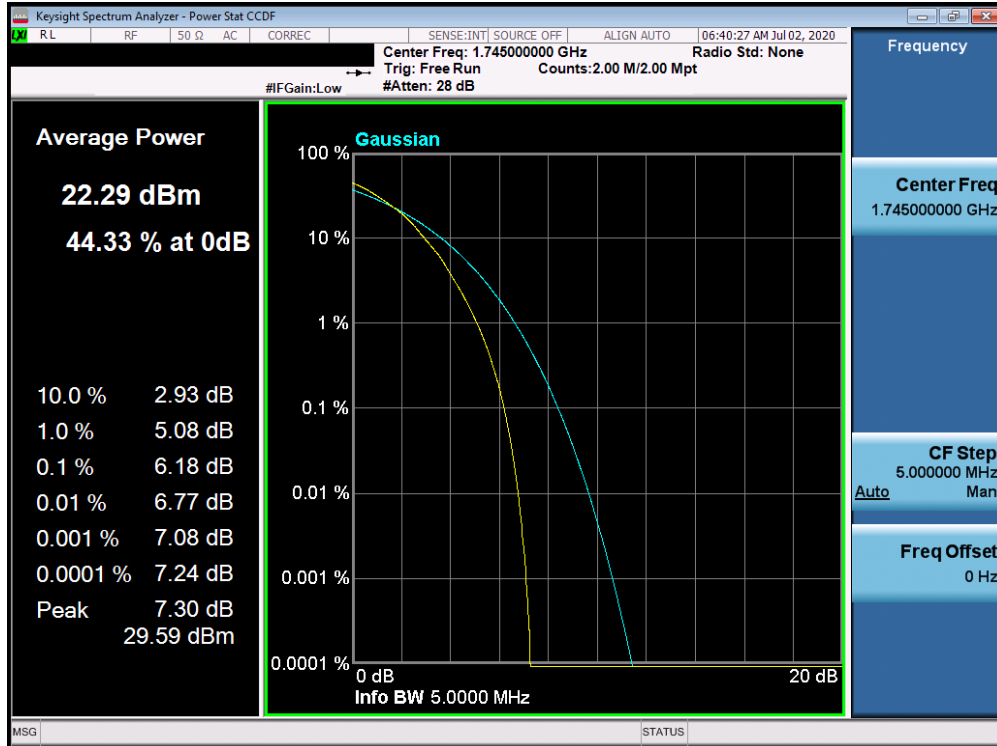


Plot 7-341. PAR Plot (Band 66 - 5.0MHz QPSK - Full RB Configuration)

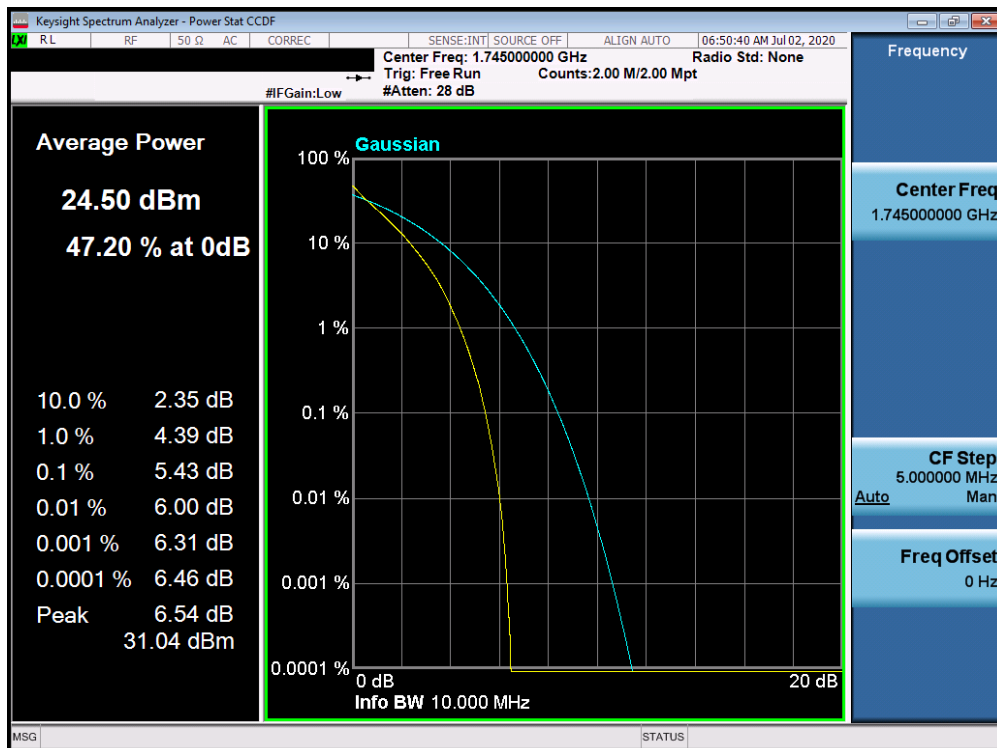


Plot 7-342. PAR Plot (Band 66 - 5.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCGA2072	PCTEST Proud to be part of element		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device		Page 207 of 389

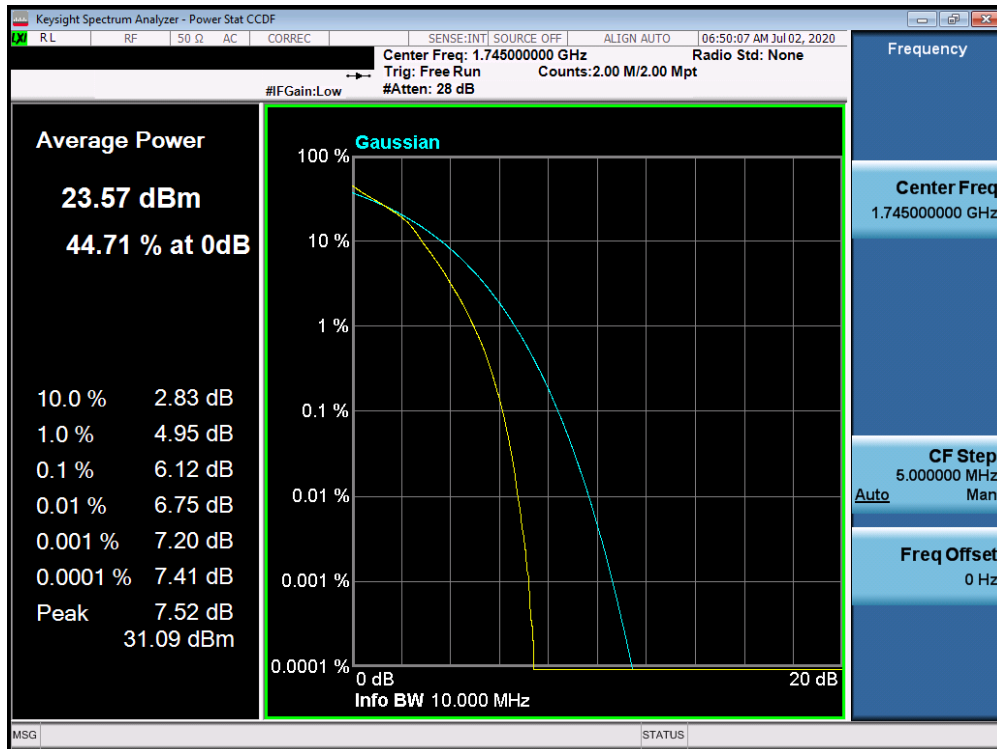


Plot 7-343. PAR Plot (Band 66 - 5.0MHz 64-QAM - Full RB Configuration)

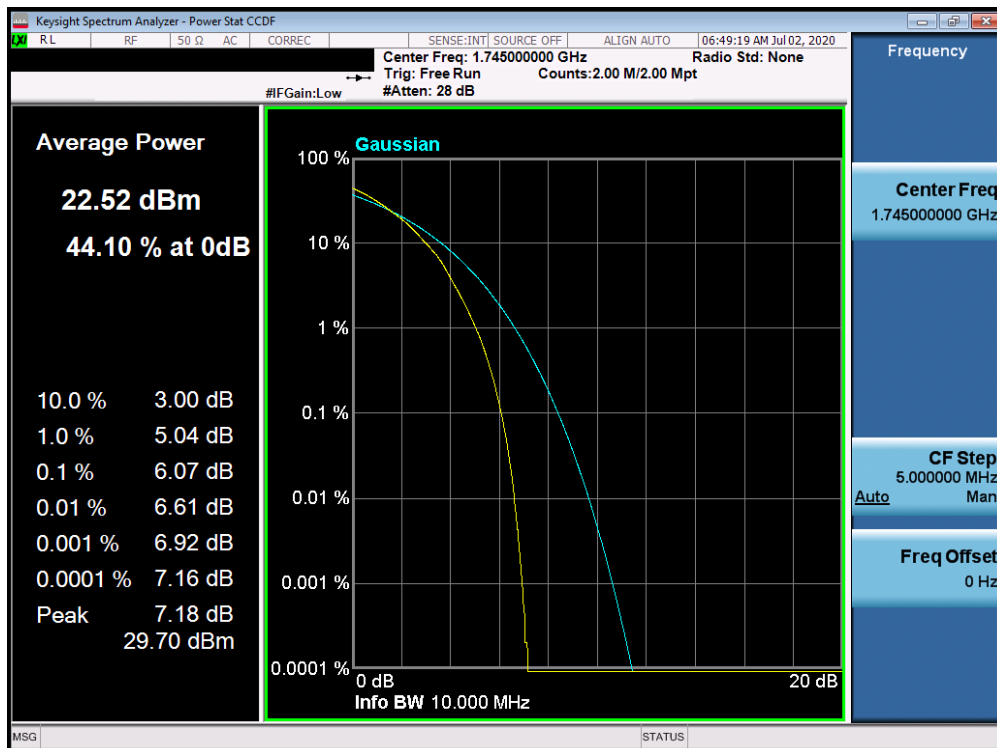


Plot 7-344. PAR Plot (Band 66 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2072	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 208 of 389

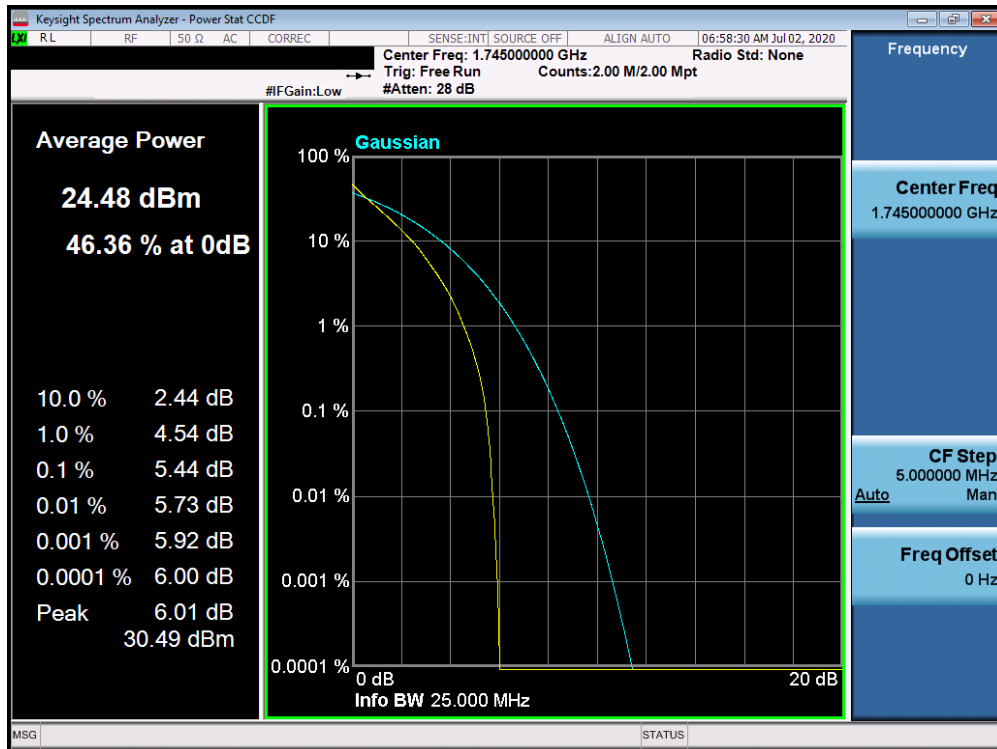


Plot 7-345. PAR Plot (Band 66 - 10.0MHz 16-QAM - Full RB Configuration)

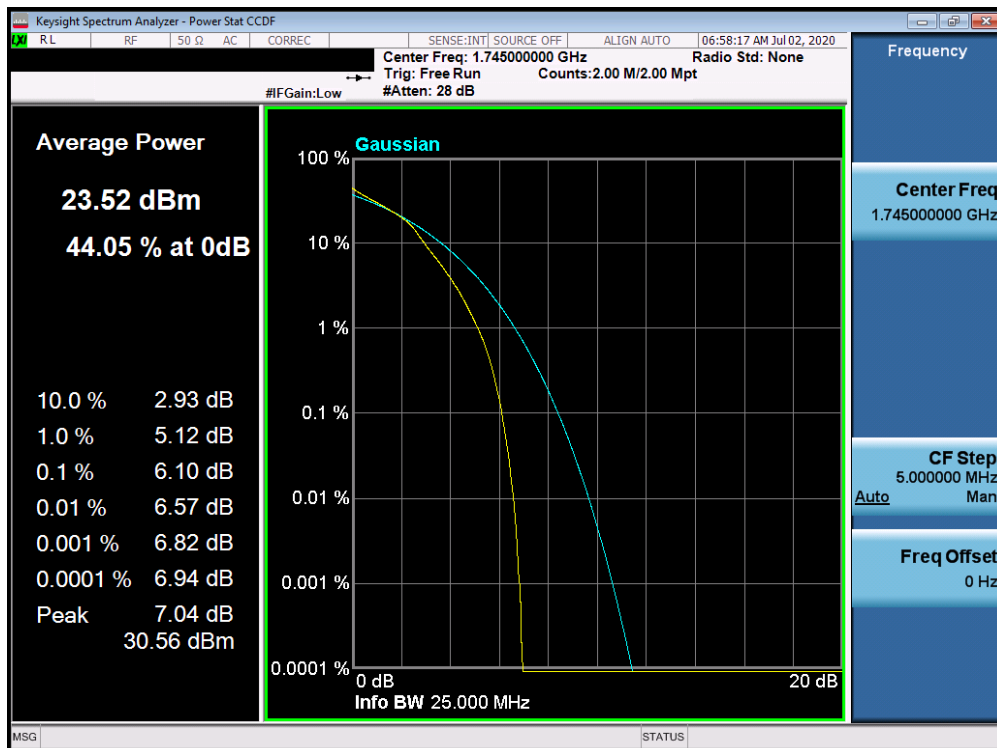


Plot 7-346. PAR Plot (Band 66 - 10.0MHz 64-QAM - Full RB Configuration)

FCC ID: BCGA2072	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 209 of 389

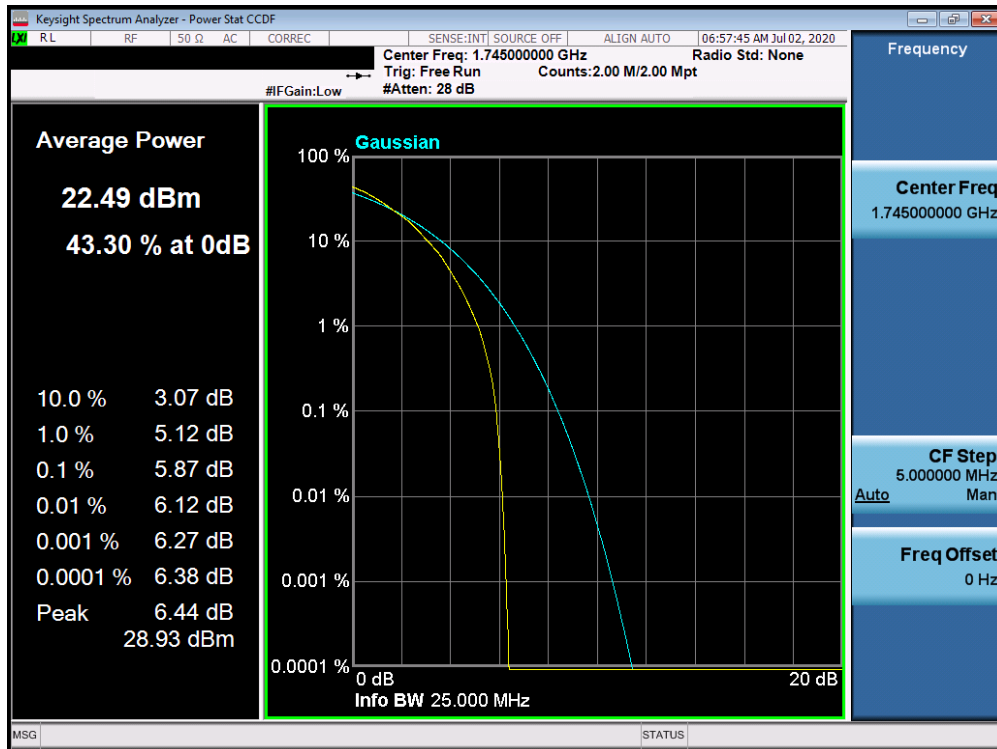


Plot 7-347. PAR Plot (Band 66 - 15.0MHz QPSK - Full RB Configuration)

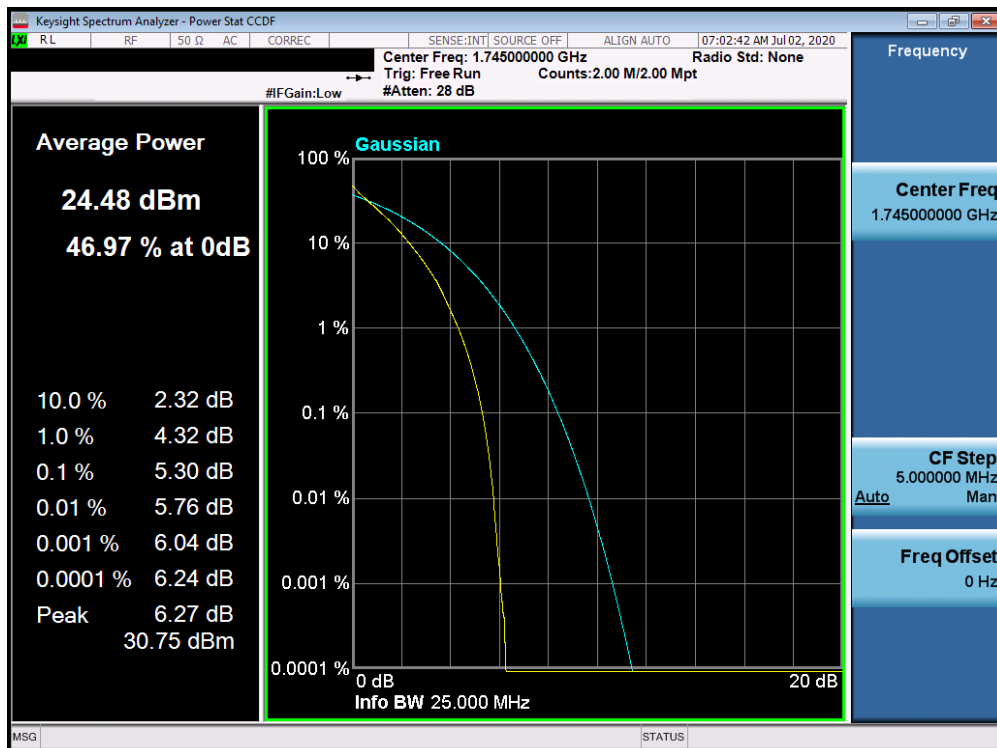


Plot 7-348. PAR Plot (Band 66 - 15.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCGA2072	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 210 of 389

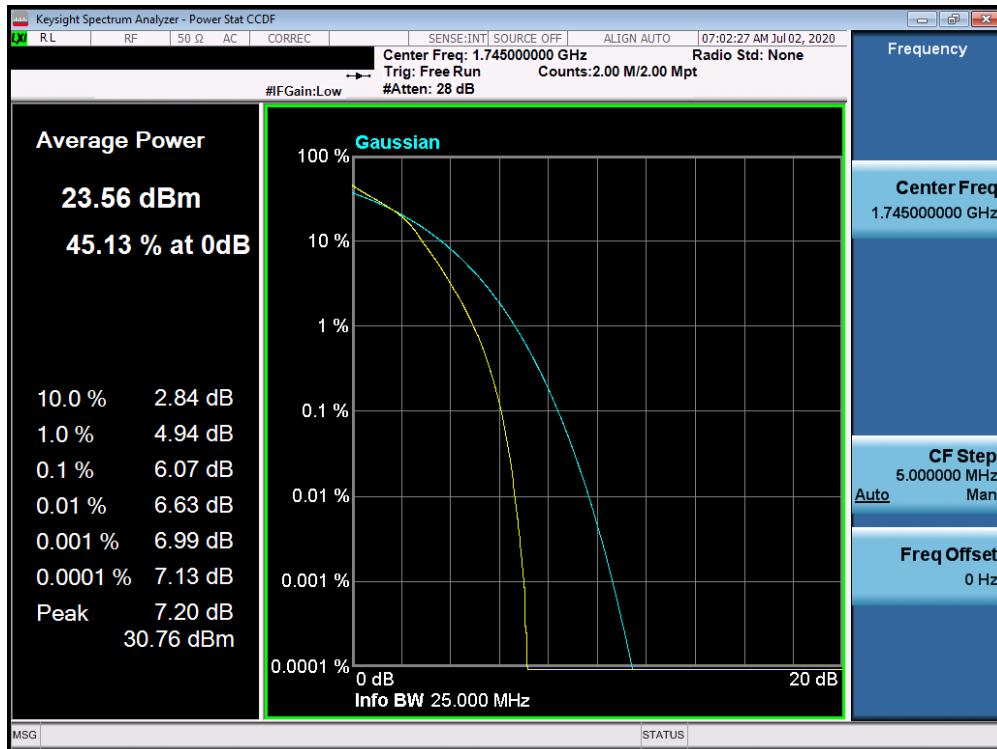


Plot 7-349. PAR Plot (Band 66 - 15.0MHz 64-QAM - Full RB Configuration)

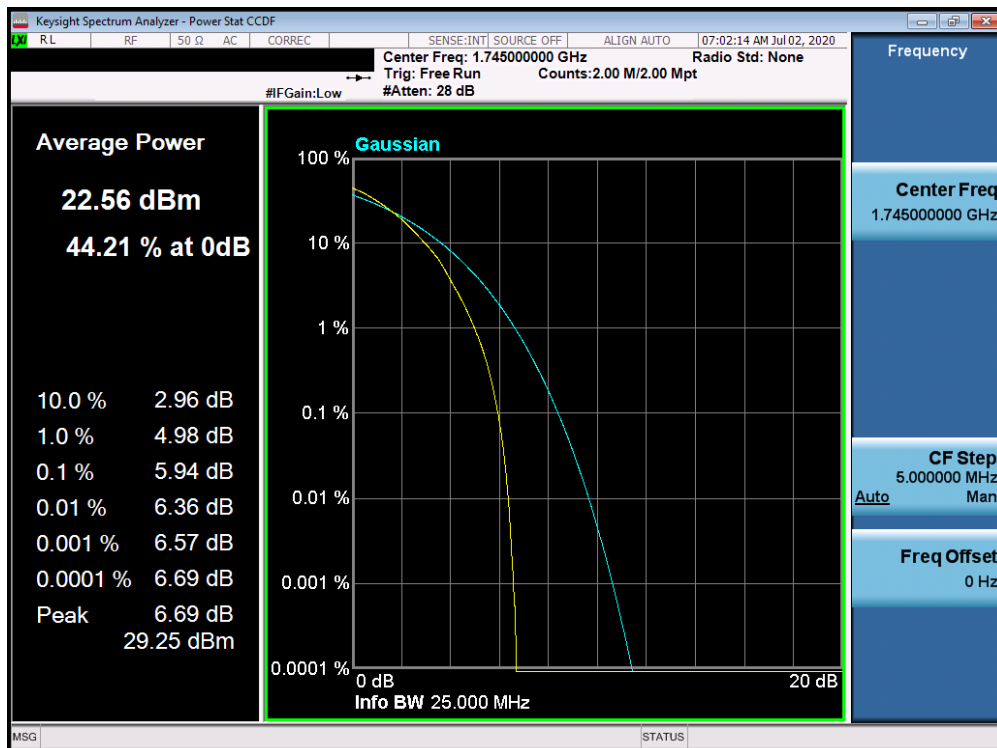


Plot 7-350. PAR Plot (Band 66 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2072	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 211 of 389



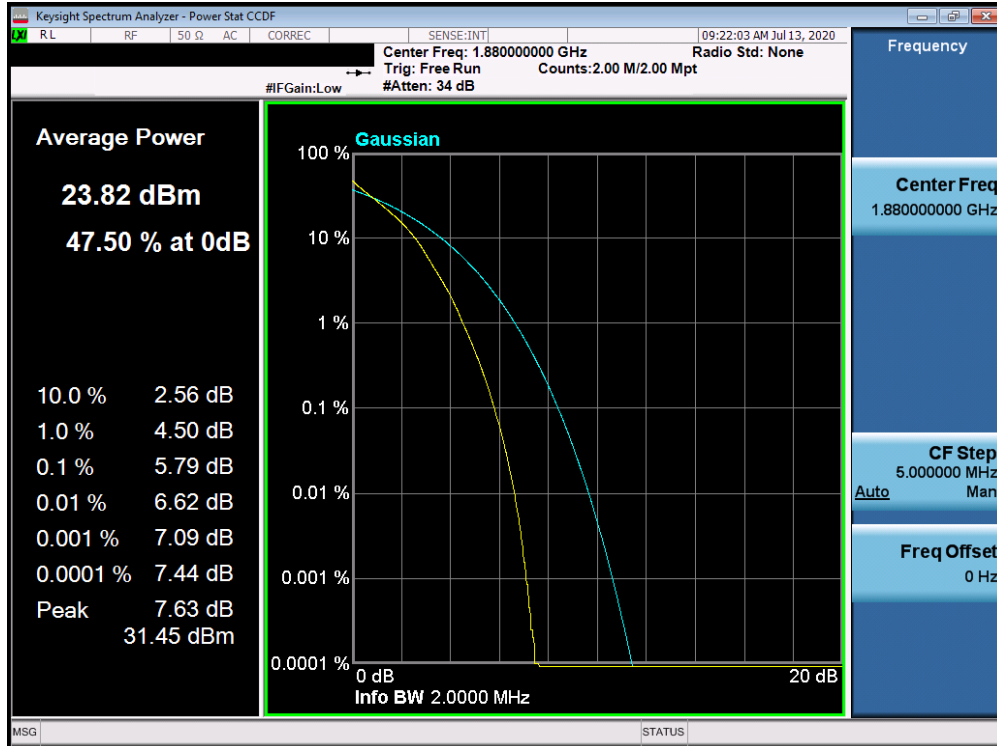
Plot 7-351. PAR Plot (Band 66 - 20.0MHz 16-QAM - Full RB Configuration)



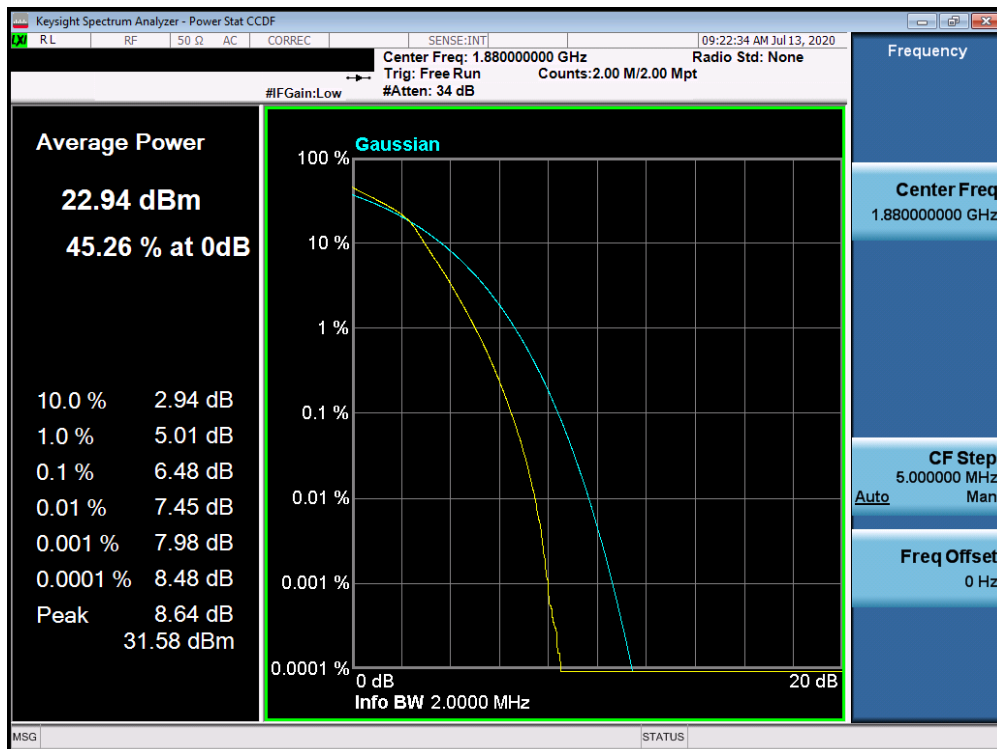
Plot 7-352. PAR Plot (Band 66 - 20.0MHz 64-QAM - Full RB Configuration)

FCC ID: BCGA2072	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 212 of 389

Band 2

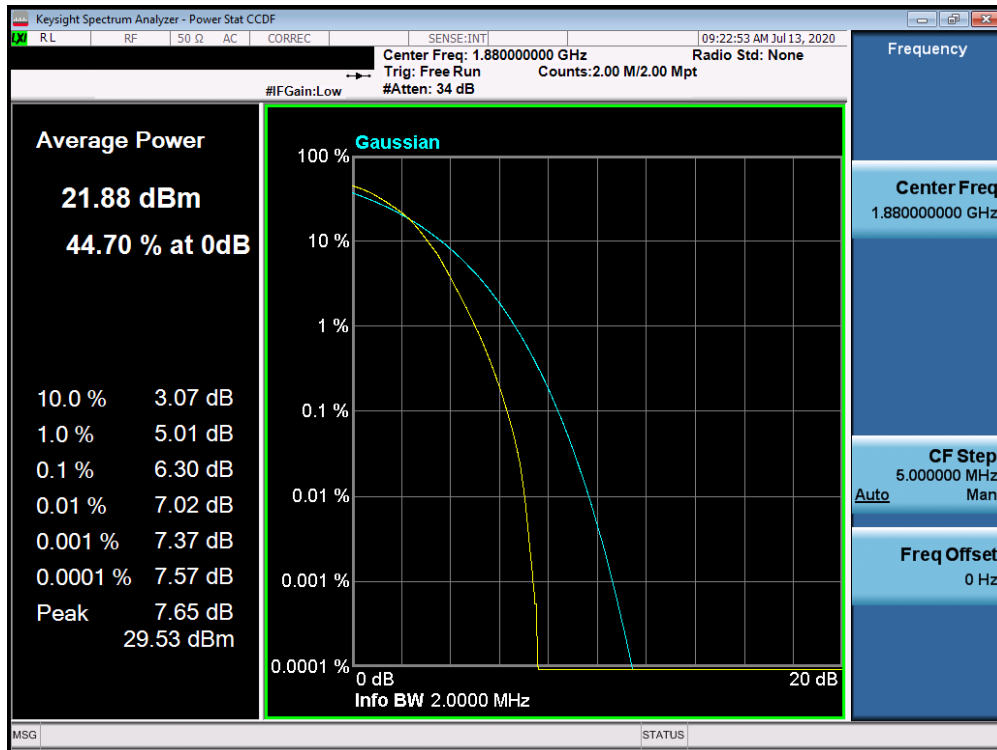


Plot 7-353. PAR Plot (Band 2 - 1.4MHz QPSK - Full RB Configuration)

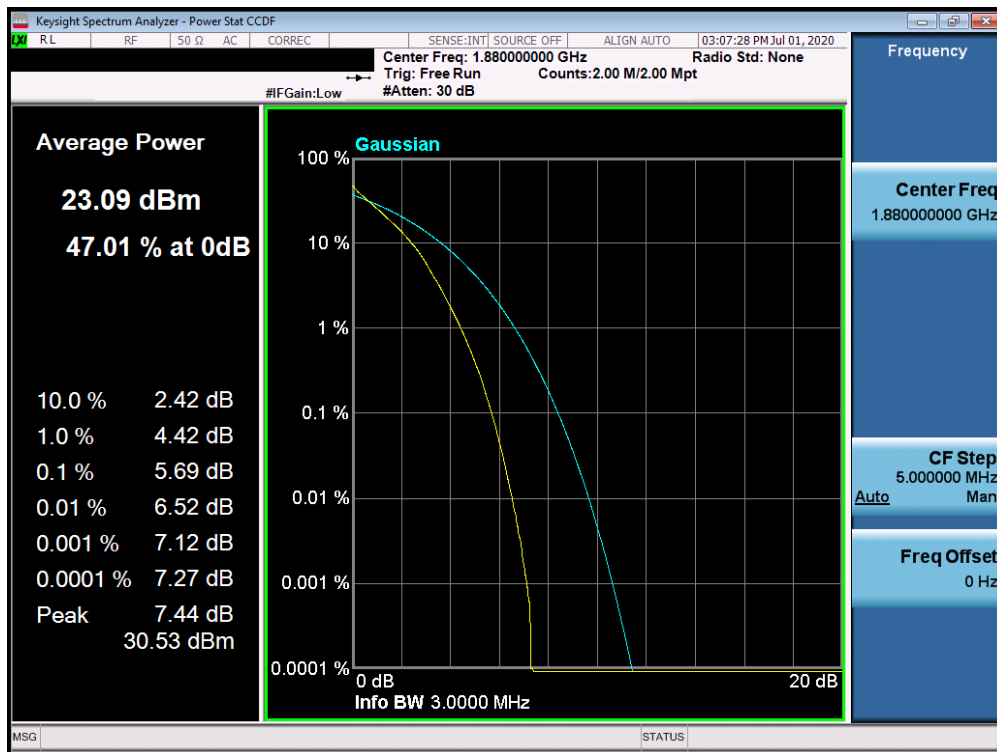


Plot 7-354. PAR Plot (Band 2 - 1.4MHz 16-QAM - Full RB Configuration)

FCC ID: BCGA2072	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 213 of 389

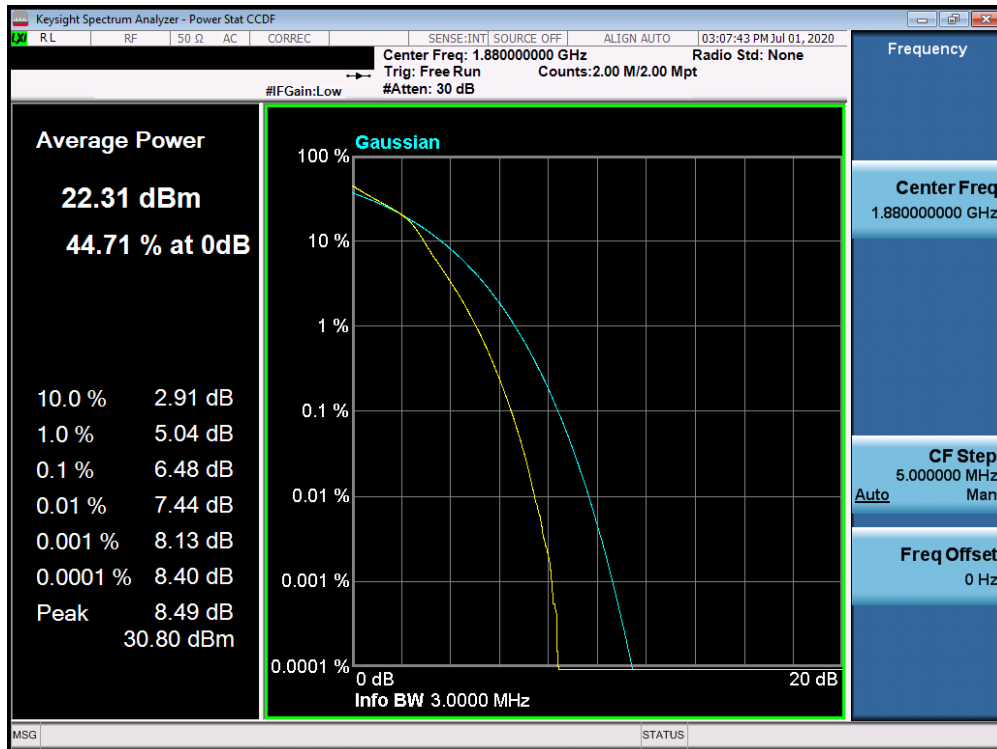


Plot 7-355. PAR Plot (Band 2 - 1.4MHz 64-QAM - Full RB Configuration)

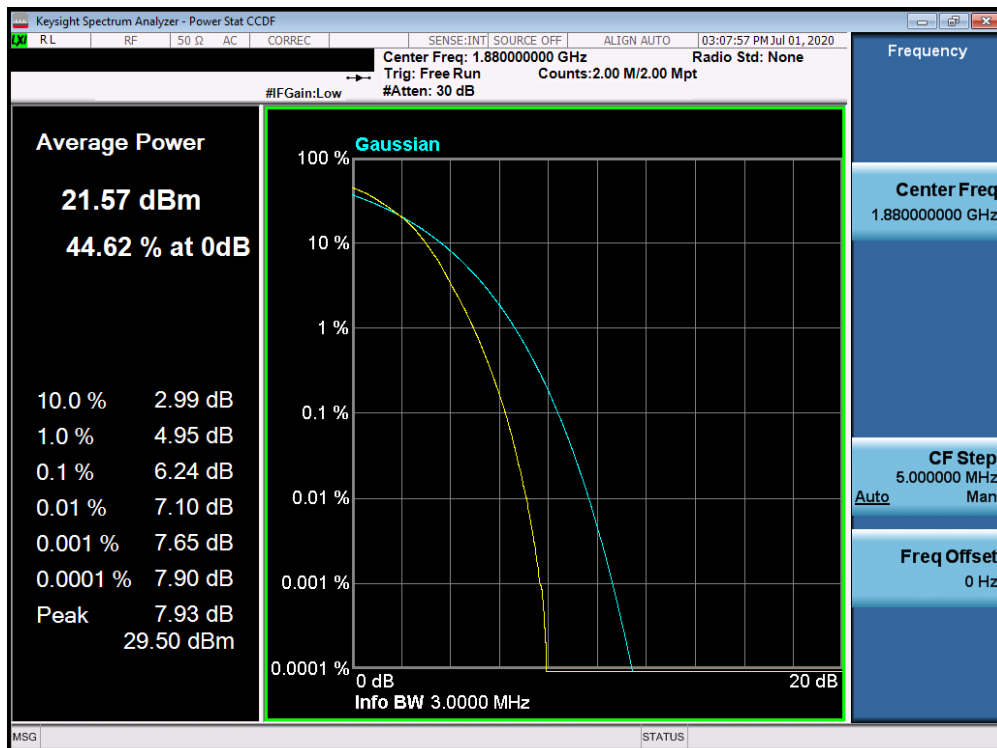


Plot 7-356. PAR Plot (Band 2 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2072	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 214 of 389

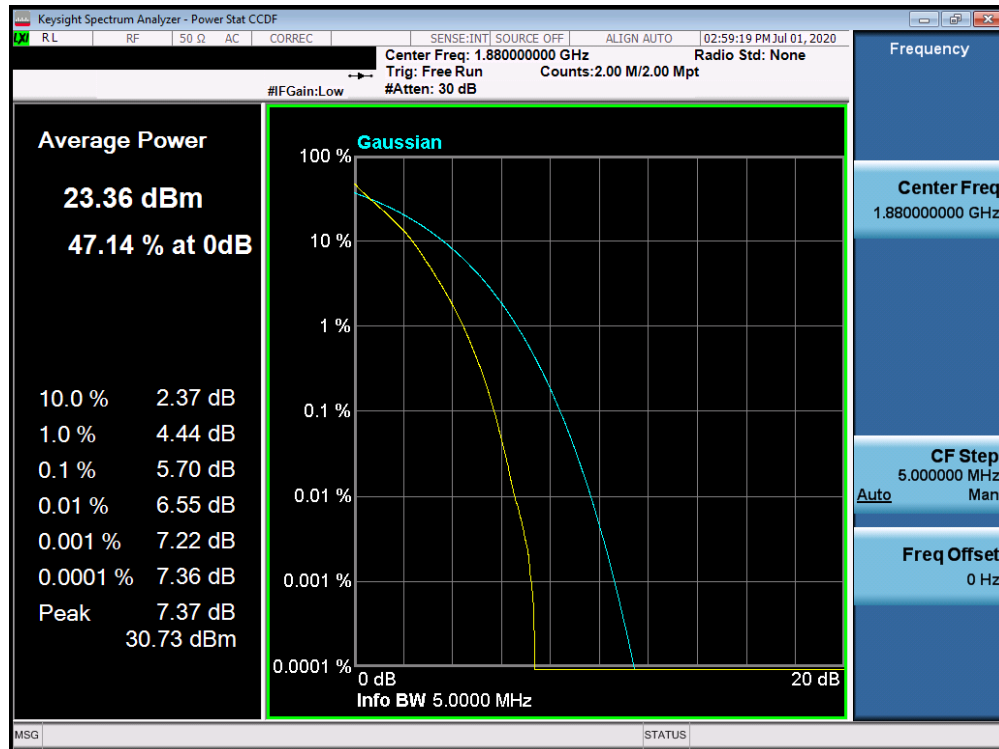


Plot 7-357. PAR Plot (Band 2 - 3.0MHz 16-QAM - Full RB Configuration)

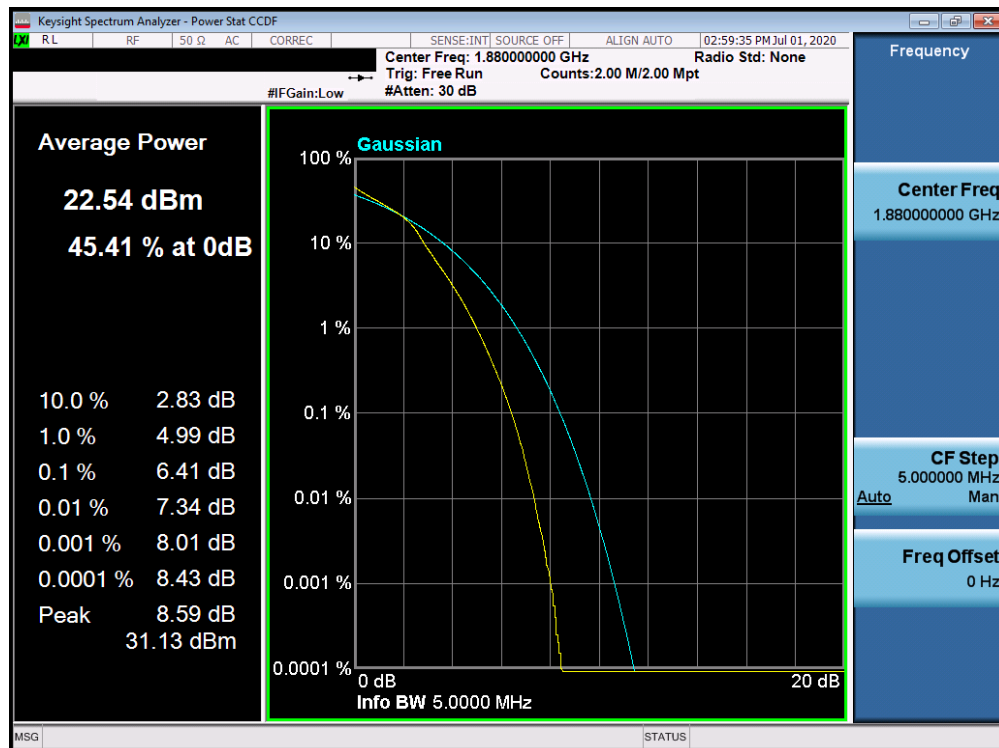


Plot 7-358. PAR Plot (Band 2 - 3.0MHz 64-QAM - Full RB Configuration)

FCC ID: BCGA2072	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 215 of 389

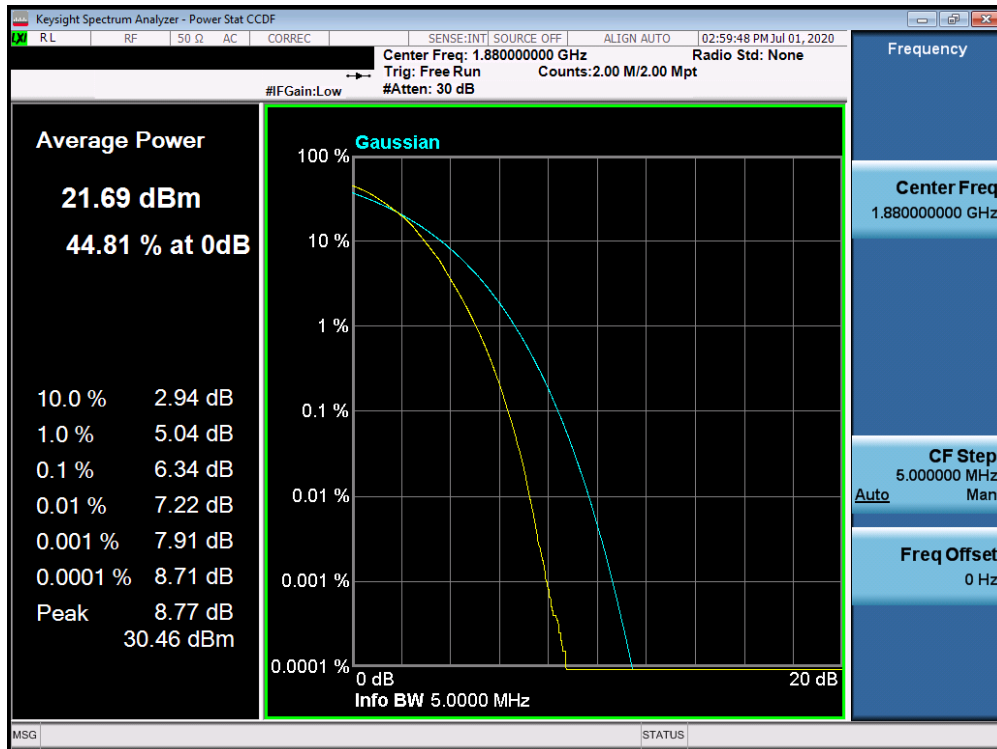


Plot 7-359. PAR Plot (Band 2 - 5.0MHz QPSK - Full RB Configuration)

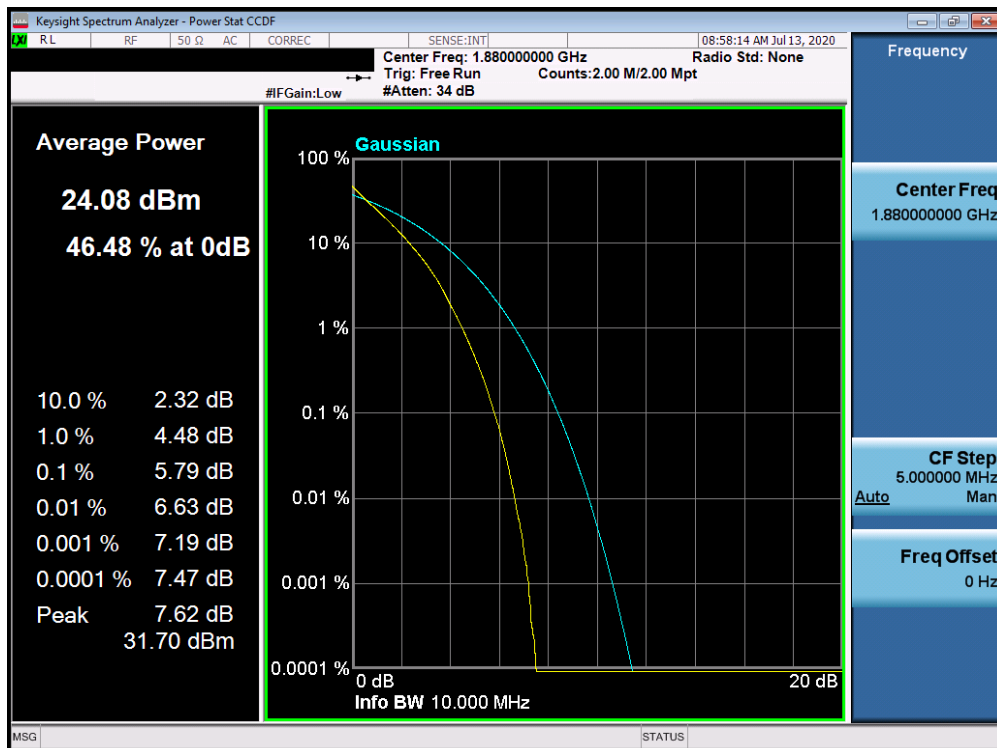


Plot 7-360. PAR Plot (Band 2 - 5.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCGA2072	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 216 of 389

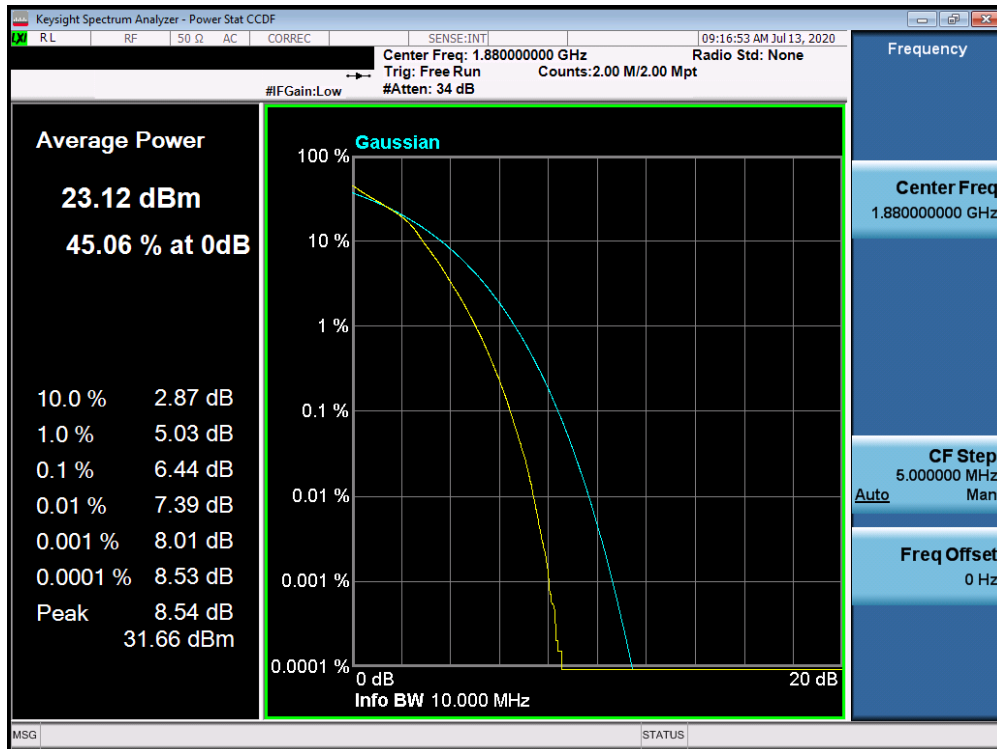


Plot 7-361. PAR Plot (Band 2 - 5.0MHz 64-QAM - Full RB Configuration)

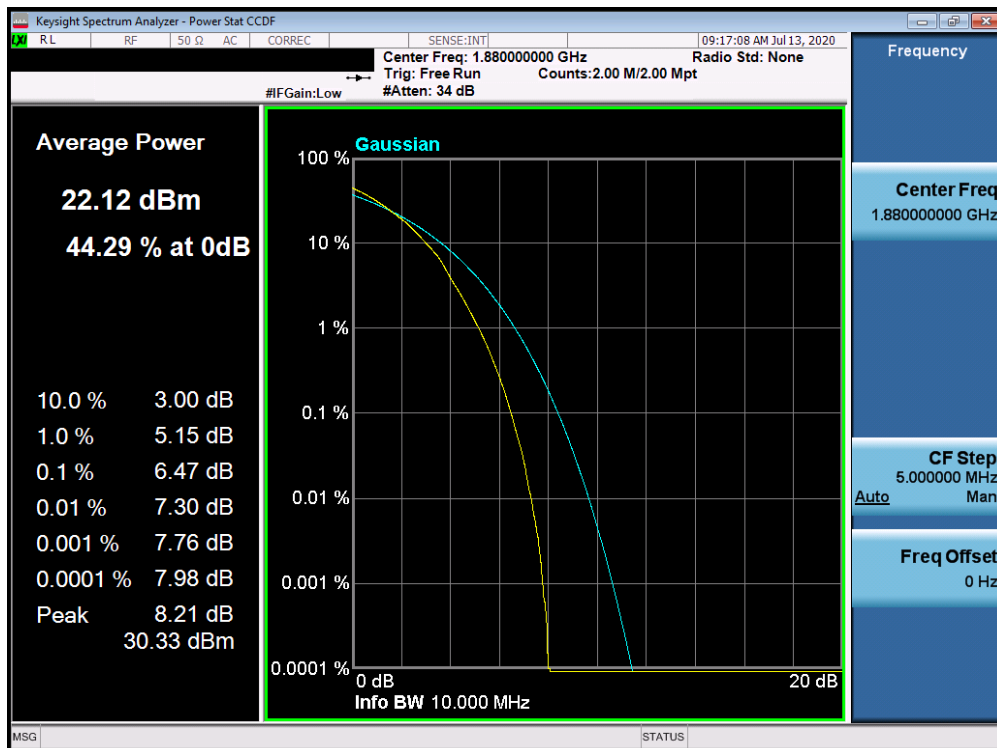


Plot 7-362. PAR Plot (Band 2 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2072	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 217 of 389

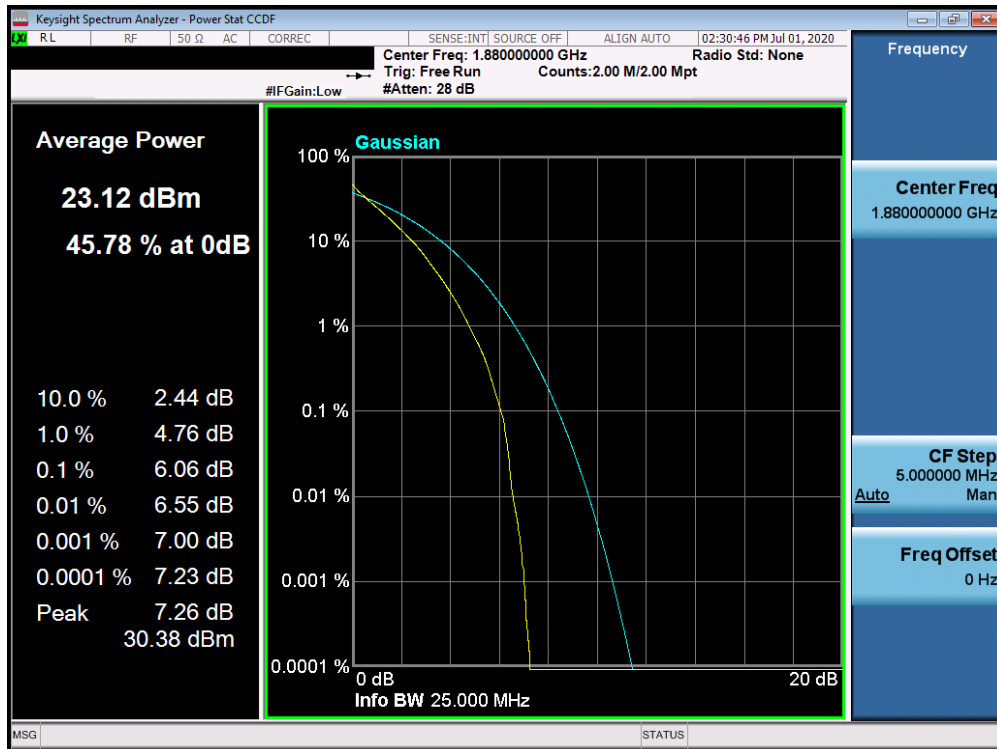


Plot 7-363. PAR Plot (Band 2 - 10.0MHz 16-QAM - Full RB Configuration)

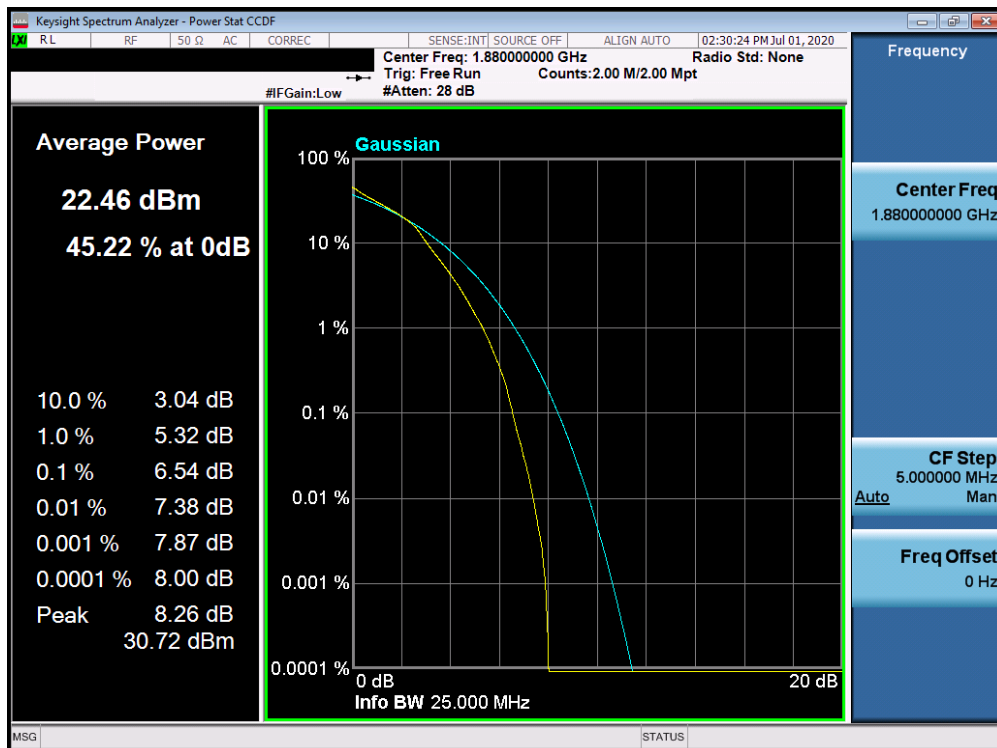


Plot 7-364. PAR Plot (Band 2 - 10.0MHz 64-QAM - Full RB Configuration)

FCC ID: BCGA2072	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 218 of 389

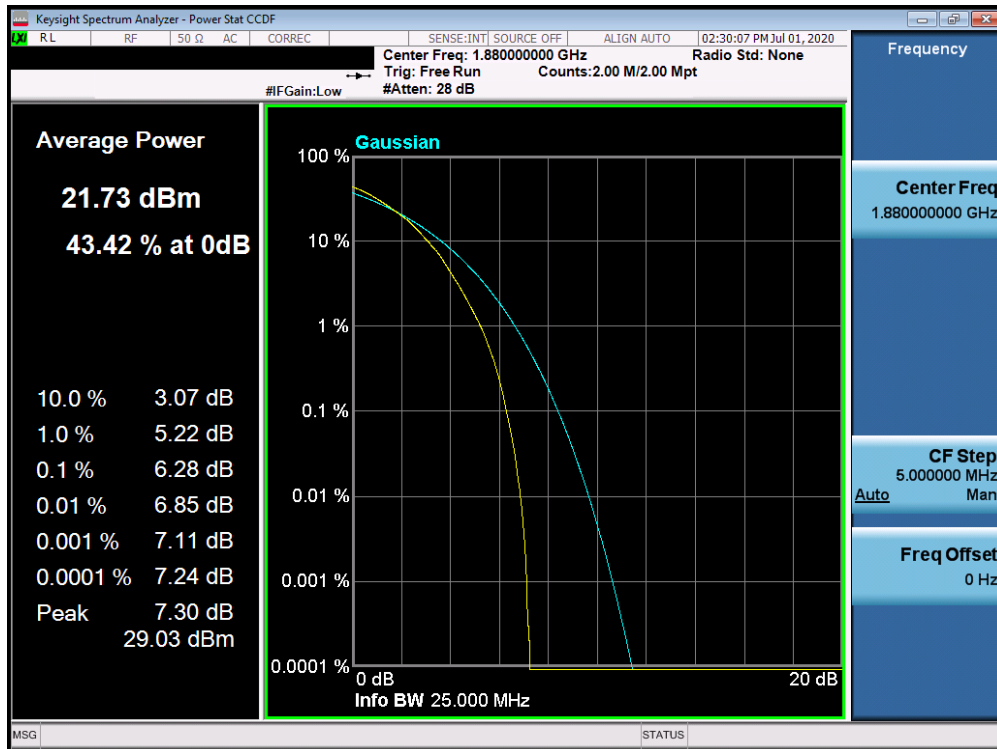


Plot 7-365. PAR Plot (Band 2 - 15.0MHz QPSK - Full RB Configuration)

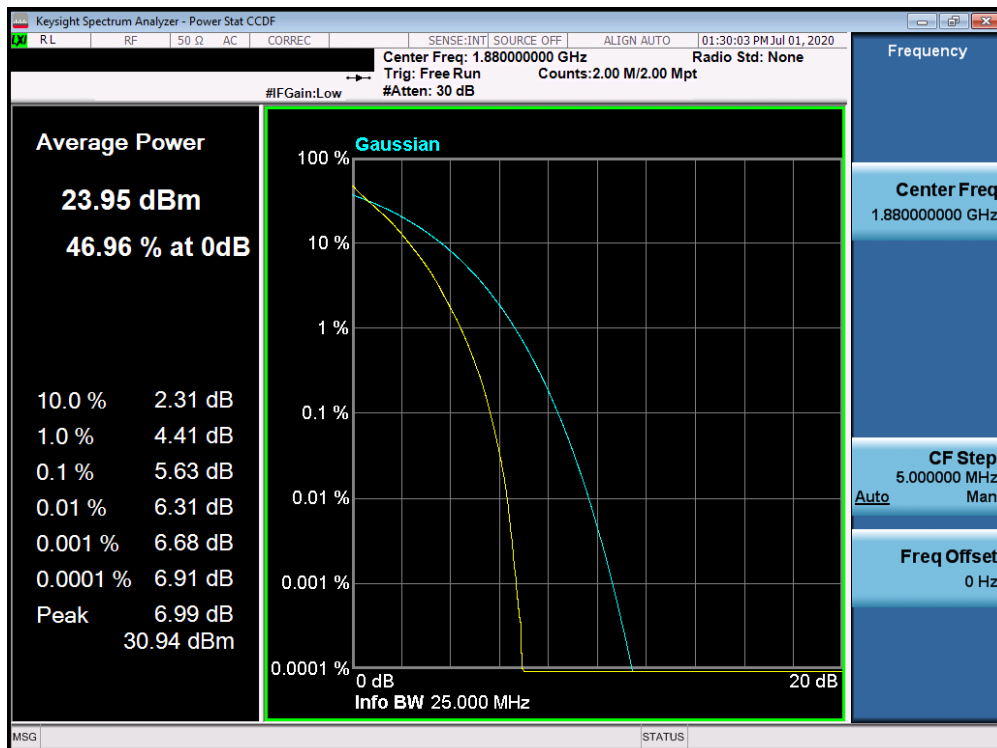


Plot 7-366. PAR Plot (Band 2 - 15.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCGA2072	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 219 of 389

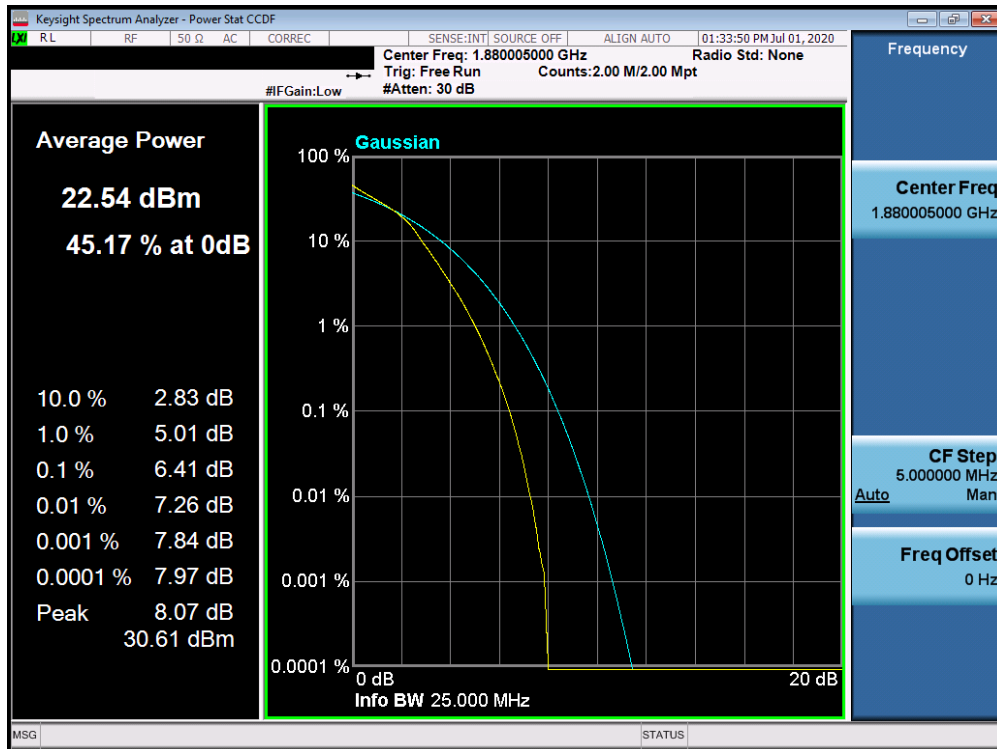


Plot 7-367. PAR Plot (Band 2 - 15.0MHz 64-QAM - Full RB Configuration)

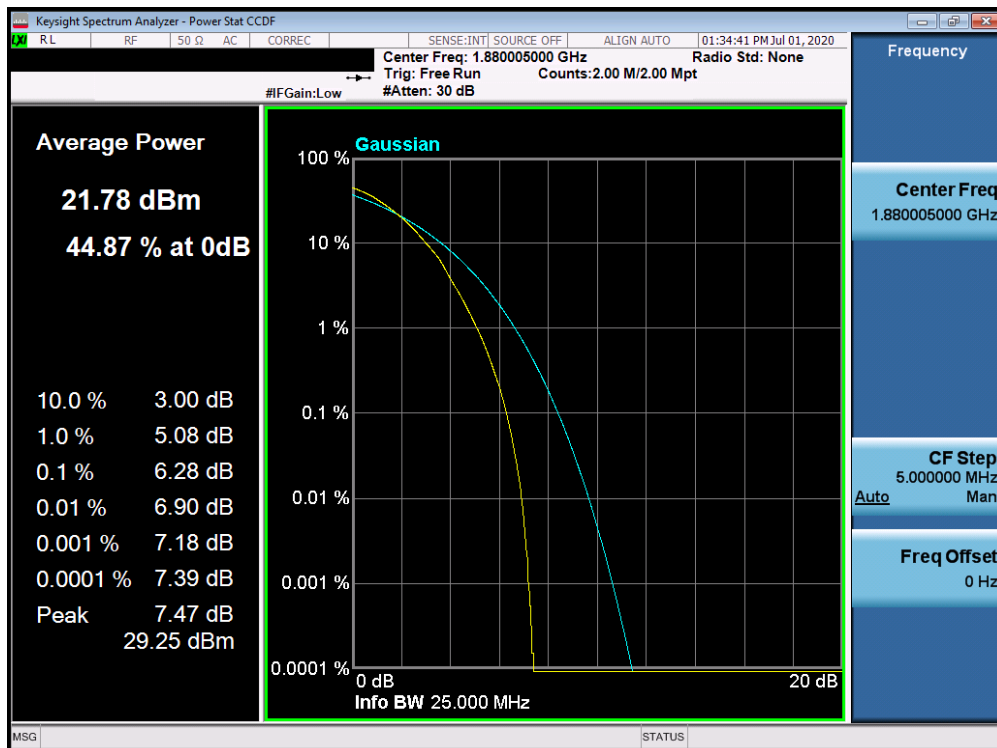


Plot 7-368. PAR Plot (Band 2 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2072	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 220 of 389



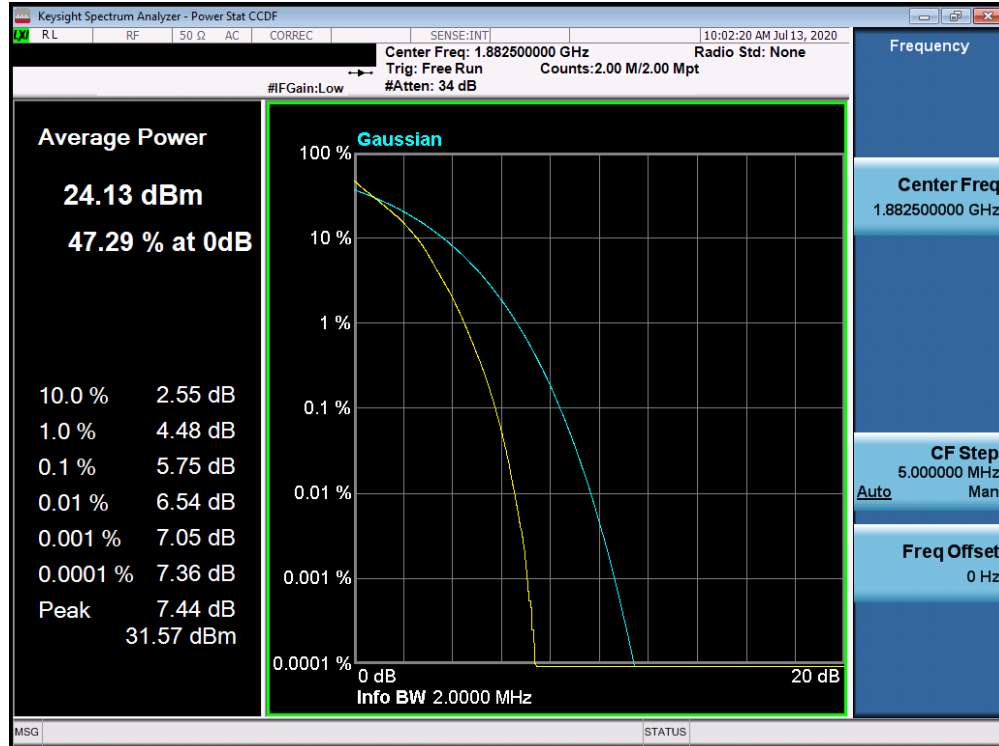
Plot 7-369. PAR Plot (Band 2 - 20.0MHz 16-QAM - Full RB Configuration)



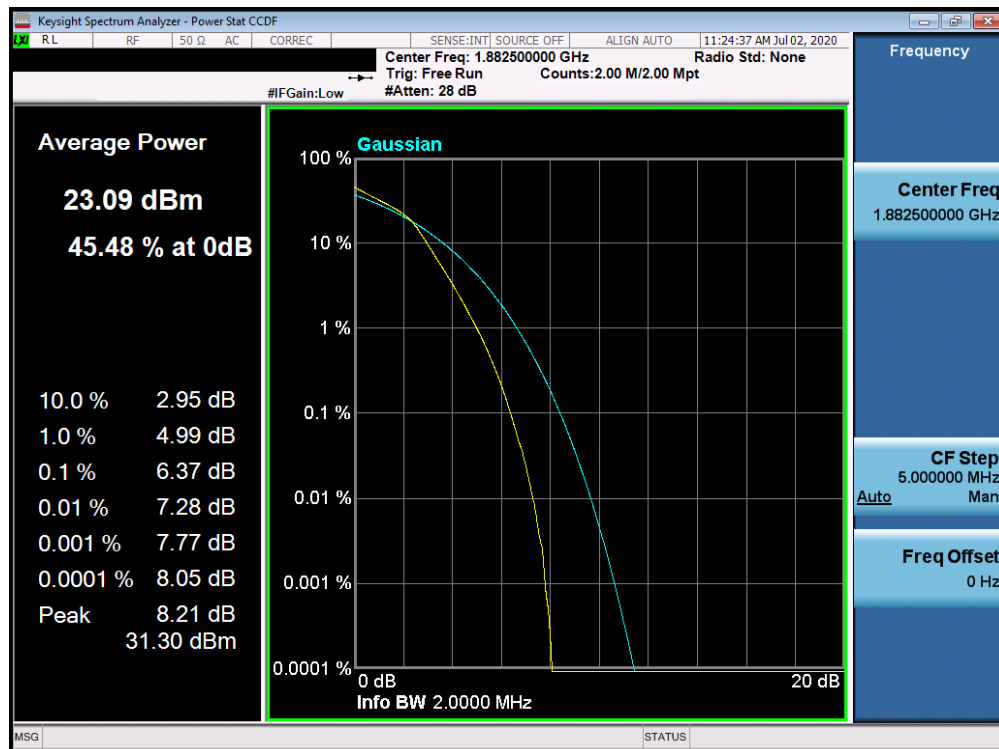
Plot 7-370. PAR Plot (Band 2 - 20.0MHz 64-QAM - Full RB Configuration)

FCC ID: BCGA2072	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 221 of 389

Band 25

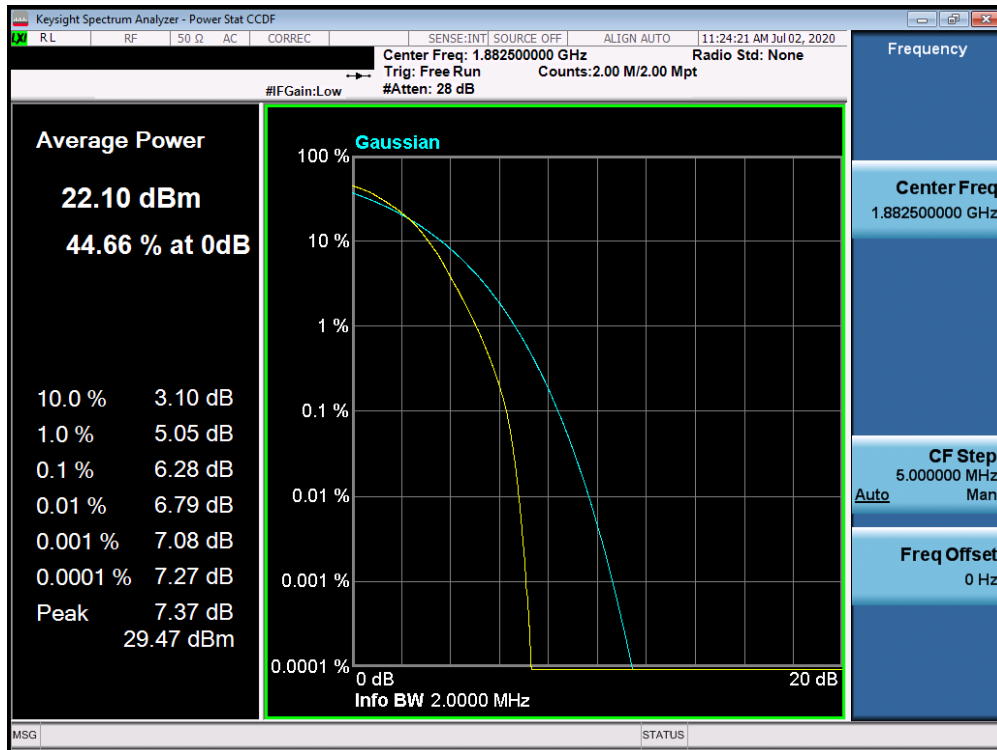


Plot 7-371. PAR Plot (Band 25 - 1.4MHz QPSK - Full RB Configuration)

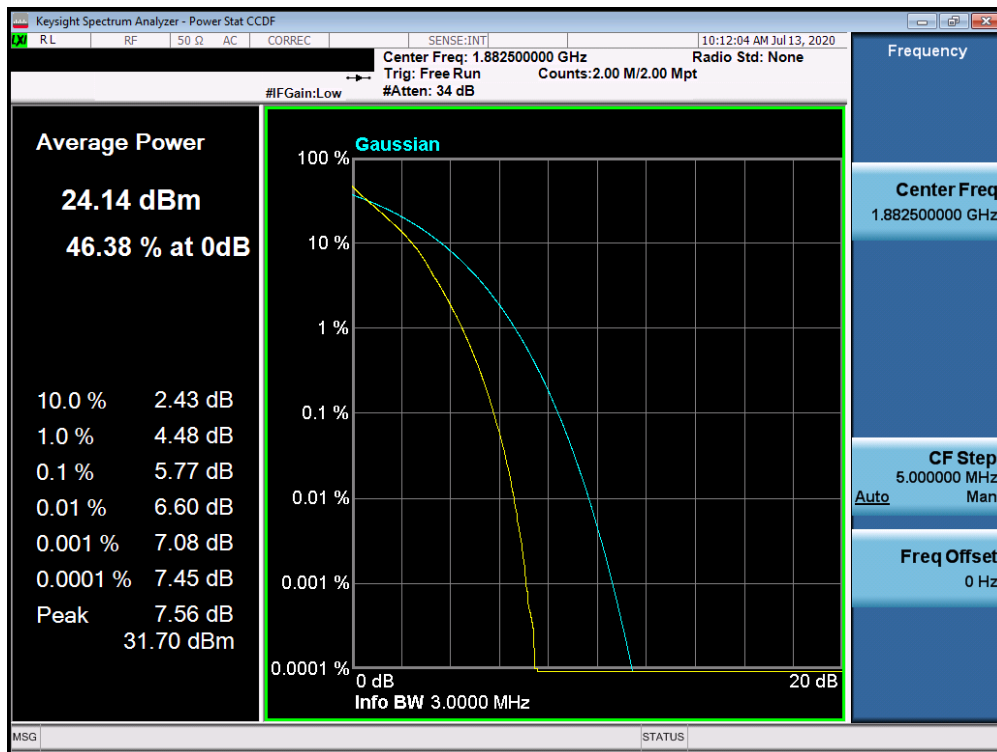


Plot 7-372. PAR Plot (Band 25 - 1.4MHz 16-QAM - Full RB Configuration)

FCC ID: BCGA2072	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 222 of 389

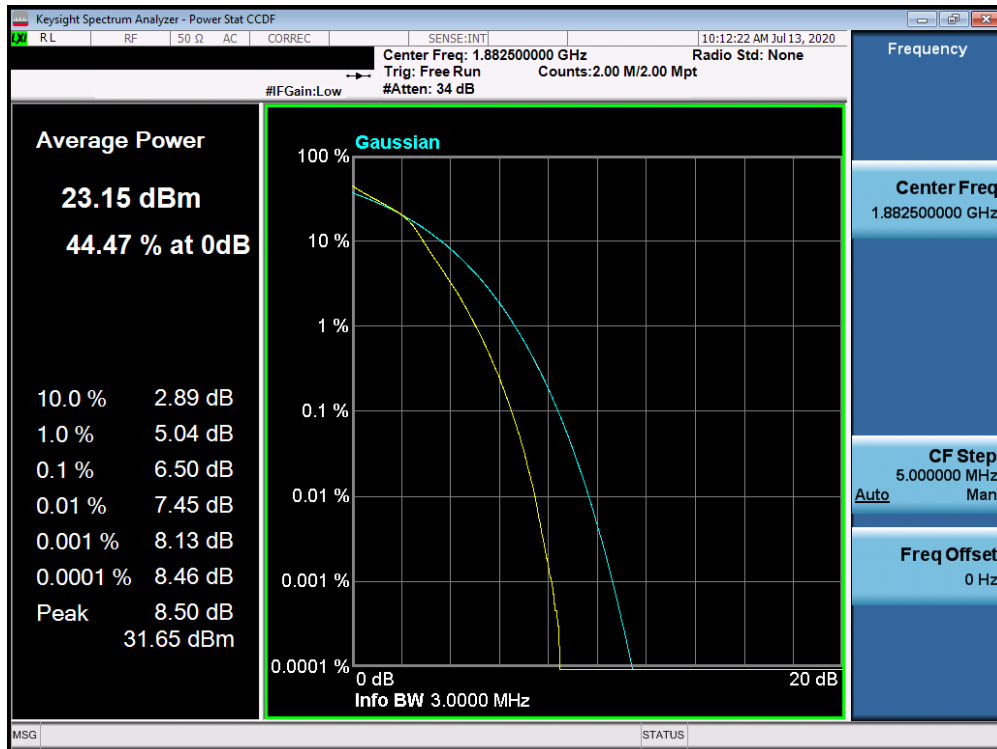


Plot 7-373. PAR Plot (Band 25 - 1.4MHz 64-QAM - Full RB Configuration)

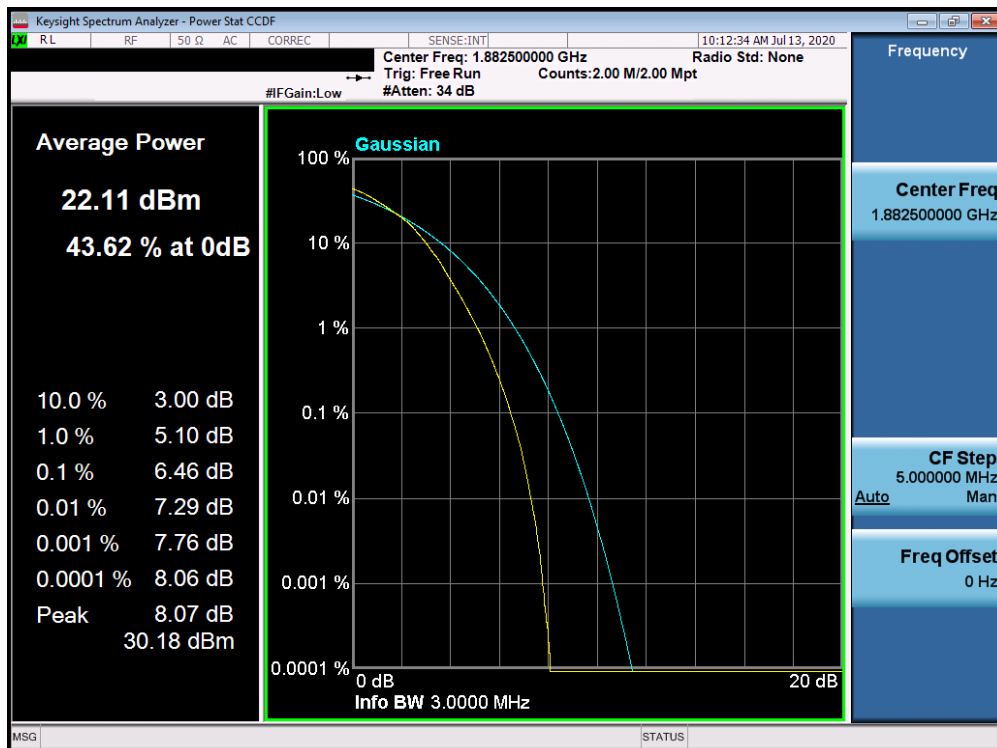


Plot 7-374. PAR Plot (Band 25 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2072	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 223 of 389

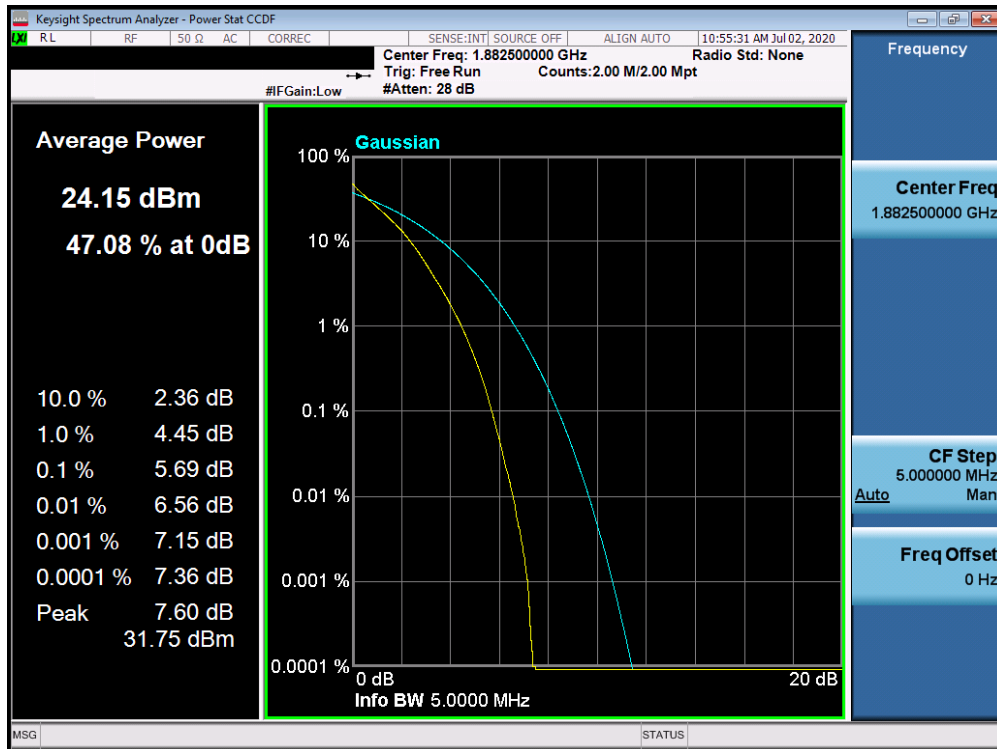


Plot 7-375. PAR Plot (Band 25 - 3.0MHz 16-QAM - Full RB Configuration)

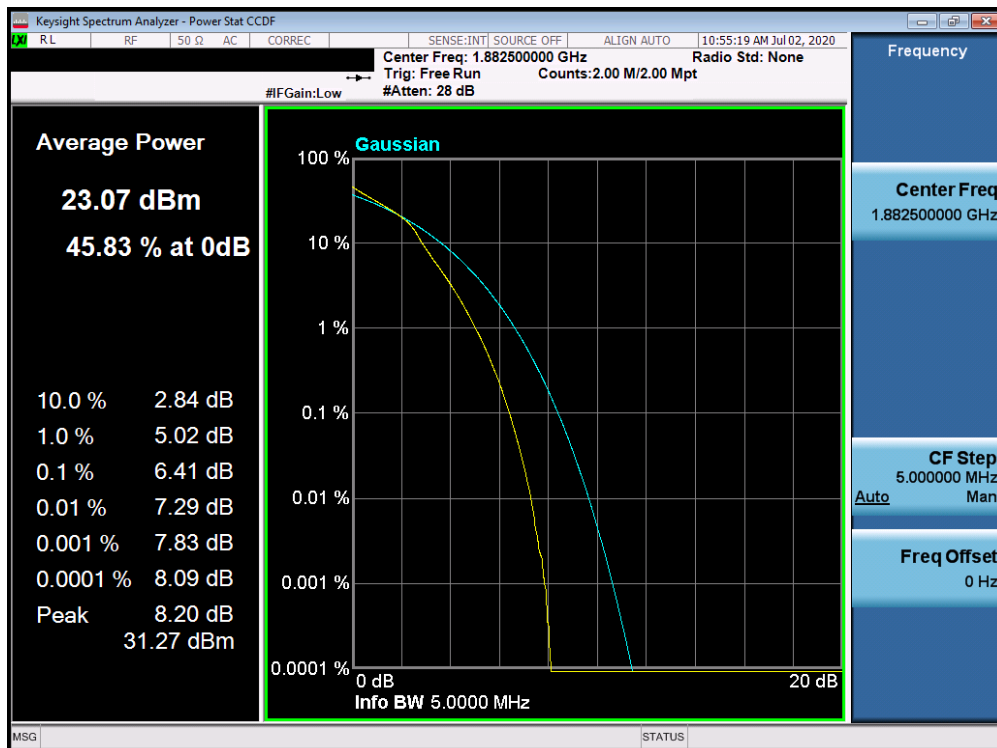


Plot 7-376. PAR Plot (Band 25 - 3.0MHz 64-QAM - Full RB Configuration)

FCC ID: BCGA2072	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 224 of 389

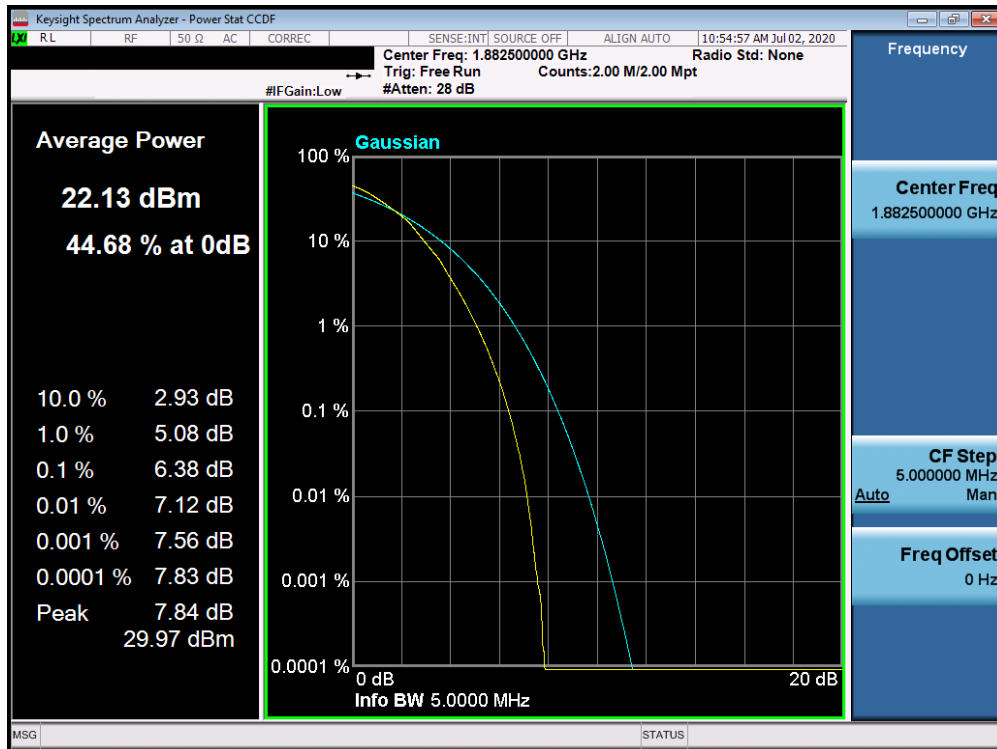


Plot 7-377. PAR Plot (Band 25 - 5.0MHz QPSK - Full RB Configuration)

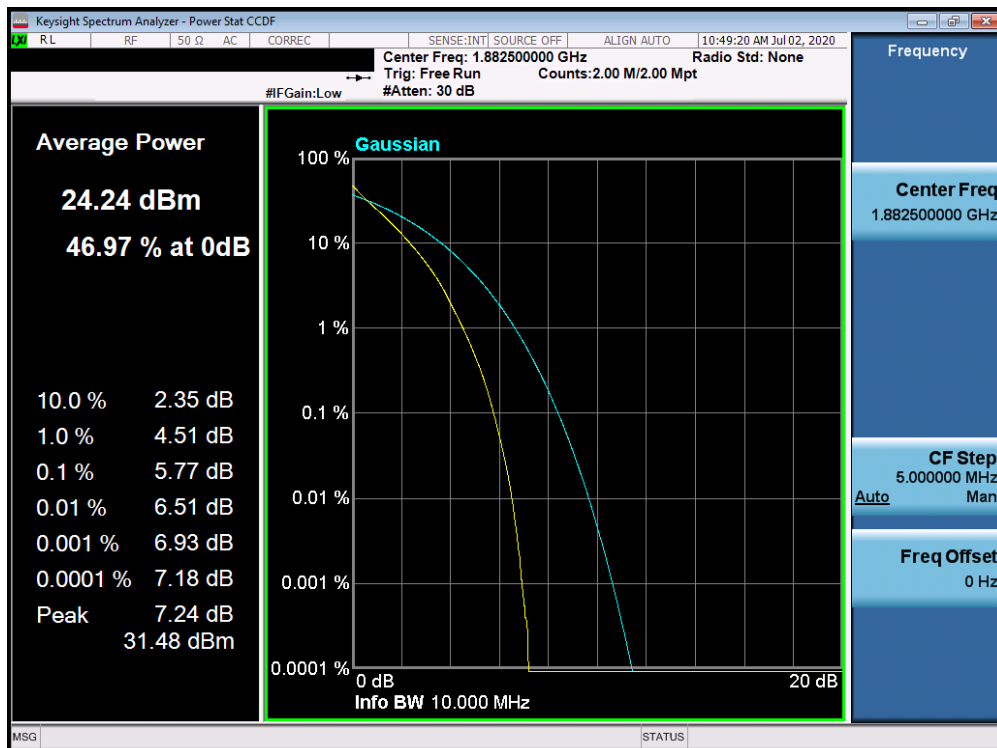


Plot 7-378. PAR Plot (Band 25 - 5.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCGA2072	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 225 of 389

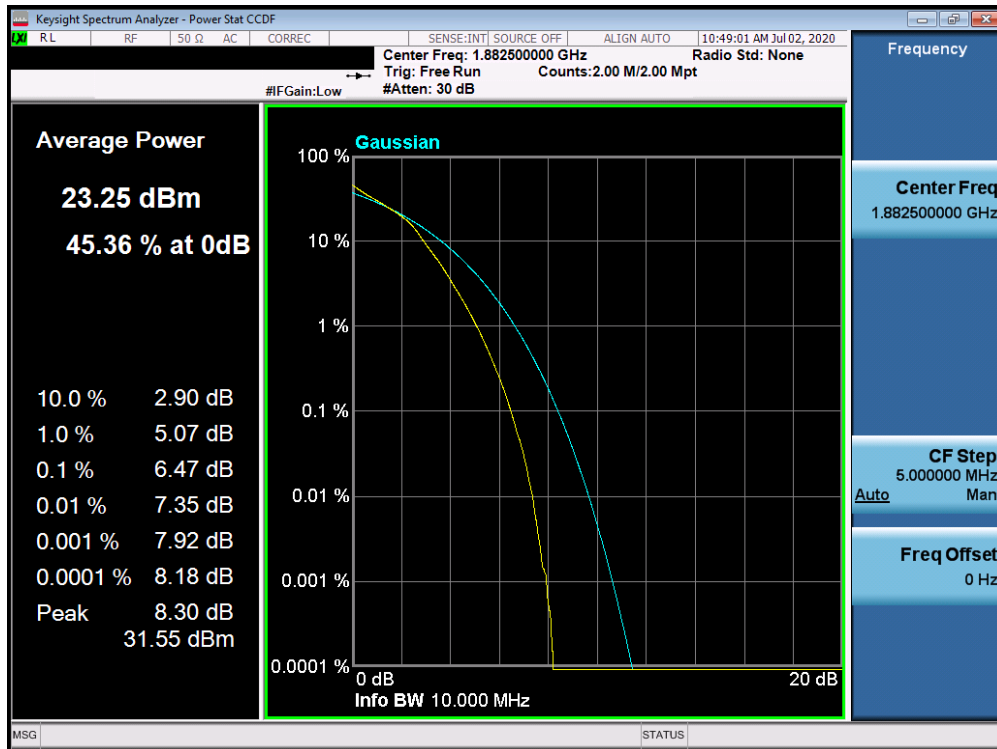


Plot 7-379. PAR Plot (Band 25 - 5.0MHz 64-QAM - Full RB Configuration)

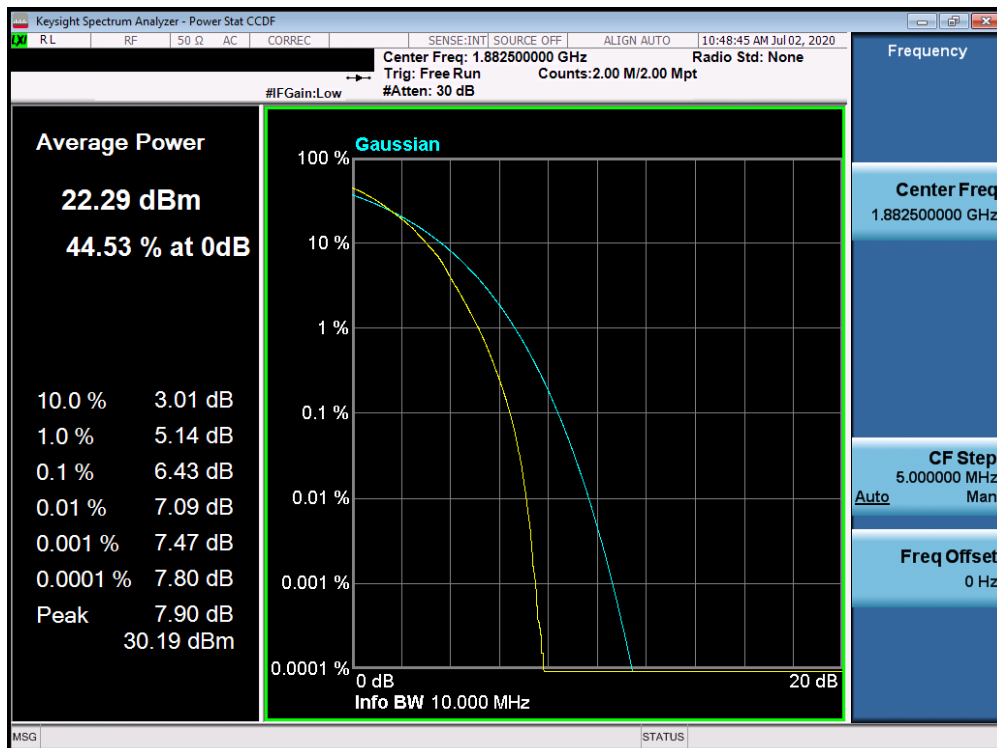


Plot 7-380. PAR Plot (Band 25 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2072	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 226 of 389

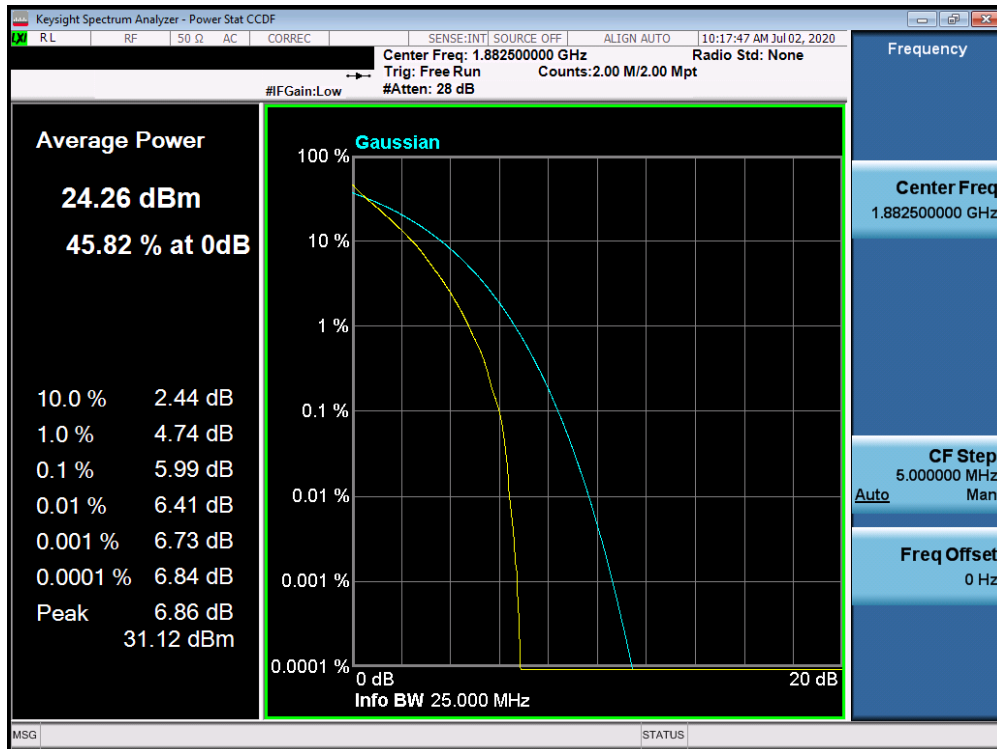


Plot 7-381. PAR Plot (Band 25 - 10.0MHz 16-QAM - Full RB Configuration)

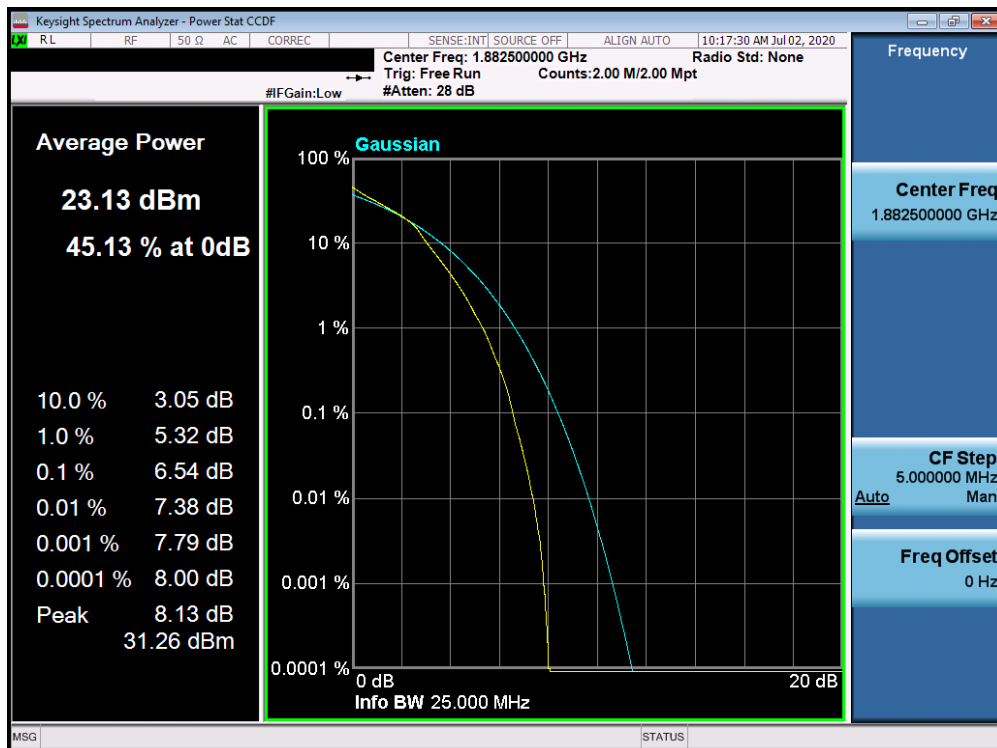


Plot 7-382. PAR Plot (Band 25 - 10.0MHz 64-QAM - Full RB Configuration)

FCC ID: BCGA2072	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 227 of 389

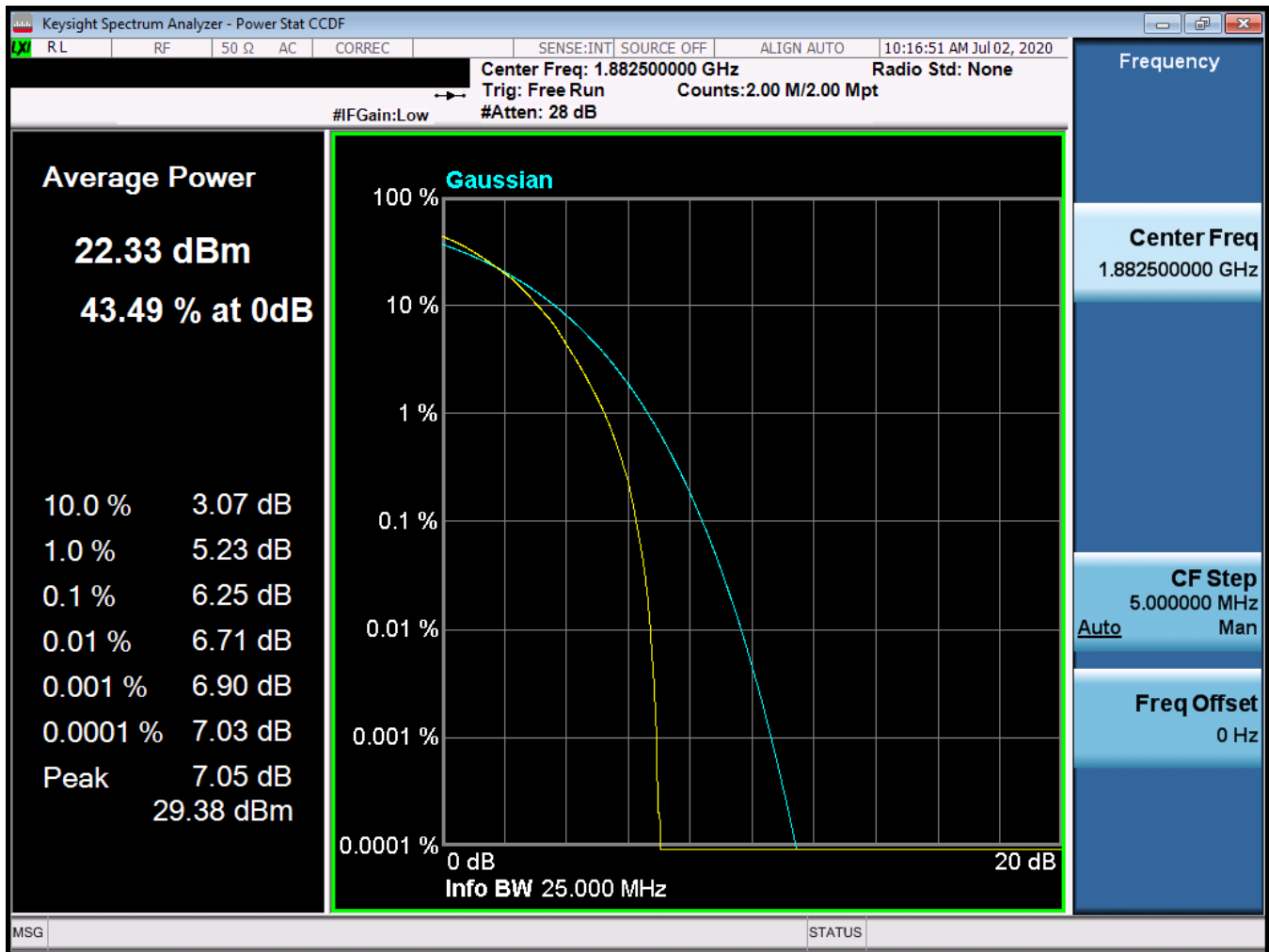


Plot 7-383. PAR Plot (Band 25 - 15.0MHz QPSK - Full RB Configuration)



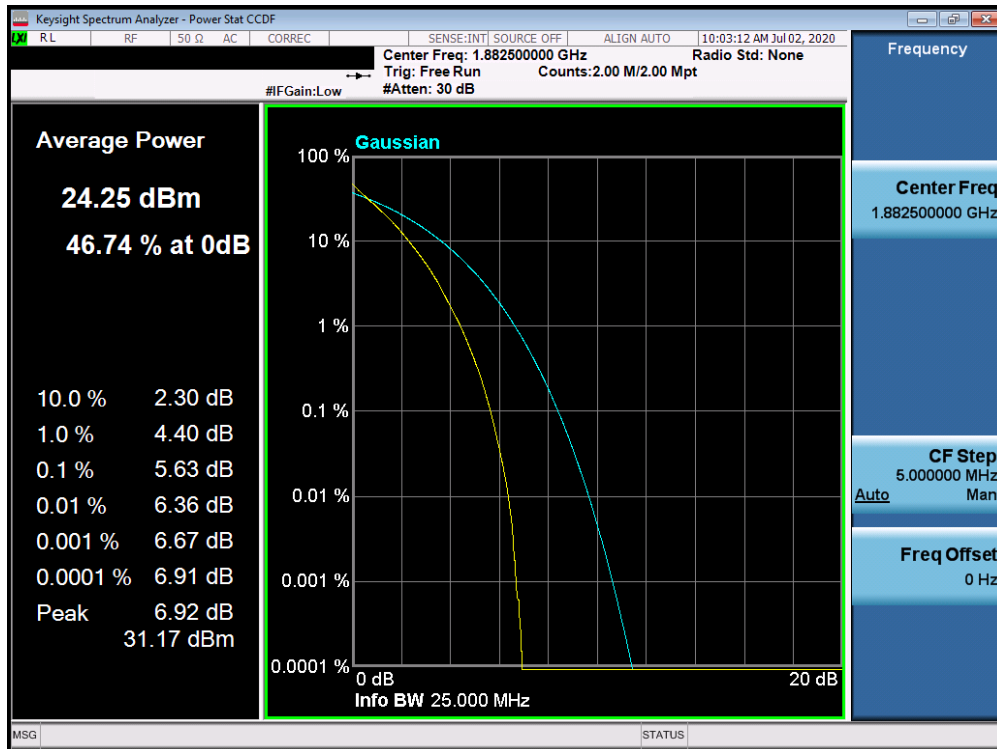
Plot 7-384. PAR Plot (Band 25 - 15.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCGA2072	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 228 of 389

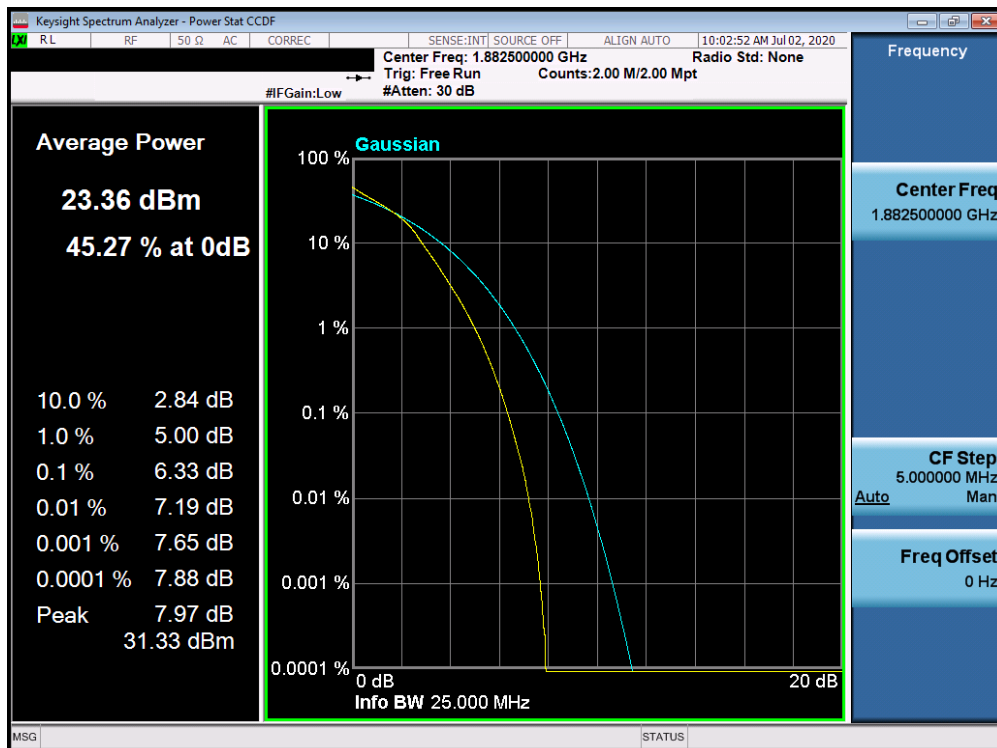


Plot 7-385. PAR Plot (Band 25 - 15.0MHz 64-QAM - Full RB Configuration)

FCC ID: BCGA2072	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 229 of 389

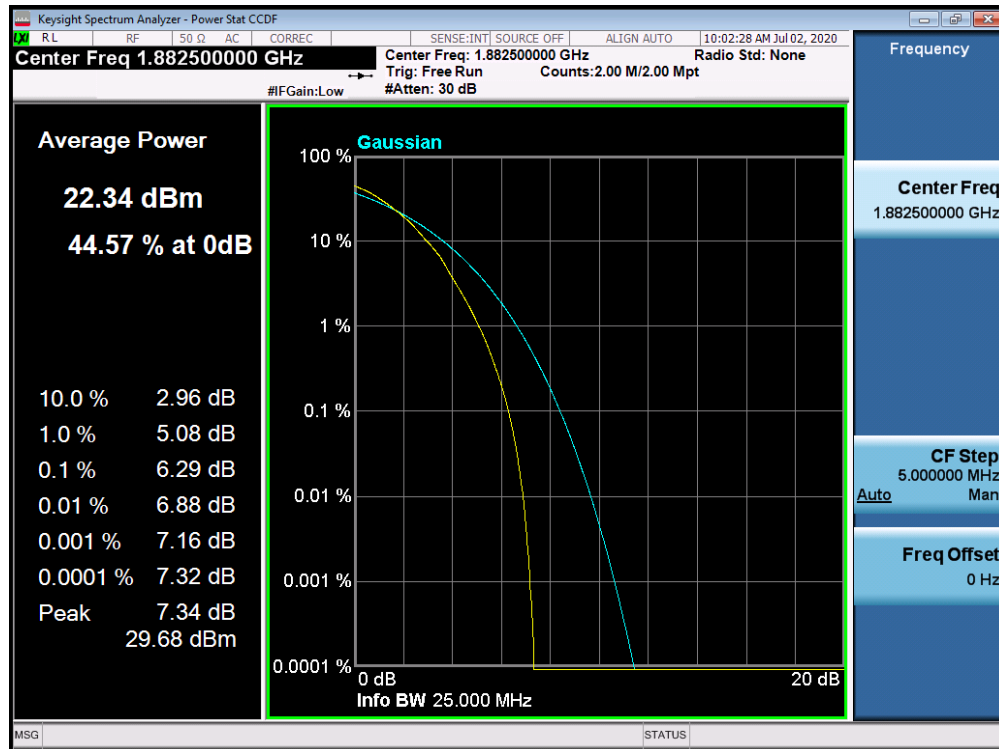


Plot 7-386. PAR Plot (Band 25 - 20.0MHz QPSK - Full RB Configuration)



Plot 7-387. PAR Plot (Band 25 - 20.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCGA2072	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 230 of 389



Plot 7-388. PAR Plot (Band 25 - 20.0MHz 64-QAM - Full RB Configuration)

FCC ID: BCGA2072	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 231 of 389

7.6 Additional Maximum Power Reduction (A-MPR) §2.1046

Test Overview

A-MPR is implemented in this device when operating at Power Class 2 in LTE Band 41 per the A-MPR specification in 3GPP TS 36.101. The conducted powers are shown herein to cover the different A-MPR levels specified in the standard. Conducted power measurements are performed to measure the average output power of the EUT. The averaging is to be performed only over duration of active transmissions at maximum output power level. The average measurements do not include averaging over periods when the transmitter is quiescent or when operating at reduced power level.

Test Procedure Used

KDB 971168 D01 v03

Test Setup

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



Figure 7-5. Conducted Power Measurement Setup

Test Notes

1. All ports were tested and only the worst case data were reported.
2. Following data were re-used from model A2324 per Data Re-use KDB guidance defined by the FCC.

FCC ID: BCGA2072	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 232 of 389

Test Case	NS	MCC	MNC	Channel BW [MHz]	Channel Number	Channel Frequency [MHz]	Modulation	RB Size	RB Offset	MPR [dB]	A-MPR [dB]	Measured Power [dBm]	Lowest Typical Power [dBm]	Delta [dB]
1	01	312	530	5	39675	2502.5	QPSK	1	0	0	≤ 3	26.36	22.5	3.86
							16-QAM			≤ 1		25.73	21.5	4.23
							64-QAM			≤ 2		24.83	20.5	4.33
2				5	39675	2502.5	QPSK	1	9	0	0	26.34	25.5	0.84
							16-QAM			≤ 1		25.77	24.5	1.27
							64-QAM			≤ 2		24.83	23.5	1.33
3				10	39700	2505	QPSK	1	0	0	≤ 5	26.27	20.5	5.77
							16-QAM	1	0	≤ 1		25.83	19.5	6.33
							64-QAM	1	0	≤ 2		24.77	18.5	6.27
4				10	39700	2505	QPSK	20	0	0	≤ 2	25.27	22.5	2.77
							16-QAM	20	0	≤ 1		24.31	21.5	2.81
							64-QAM	20	0	≤ 2		23.40	20.5	2.90
5				10	39700	2505	QPSK	50	0	0	≤ 3	25.22	21.5	3.72
							16-QAM	50	0	≤ 1		24.27	20.5	3.77
							64-QAM	50	0	≤ 2		23.25	19.5	3.75
6				10	39700	2505	QPSK	25	20	0	≤ 1	25.24	23.5	1.74
							16-QAM	25	20	≤ 1		24.29	22.5	1.79
							64-QAM	25	20	≤ 2		23.31	21.5	1.81
7				10	39700	2505	QPSK	1	36	0	0	26.16	25.5	0.66
							16-QAM	1	36	≤ 1		25.60	24.5	1.10
							64-QAM	1	36	≤ 2		24.67	23.5	1.17
8				15	39725	2507.5	QPSK	1	0	0	≤ 5	26.26	20.5	5.76
							16-QAM	1	0	≤ 1		25.83	19.5	6.33
							64-QAM	1	0	≤ 2		24.82	18.5	6.32
9				15	39725	2507.5	QPSK	20	0	0	≤ 2	25.27	22.5	2.77
							16-QAM	20	0	≤ 1		24.30	21.5	2.80
							64-QAM	20	0	≤ 2		23.41	20.5	2.91
10				15	39725	2507.5	QPSK	75	0	0	≤ 4	25.20	20.5	4.70
							16-QAM	75	0	≤ 1		24.27	19.5	4.77
							64-QAM	75	0	≤ 2		23.36	18.5	4.86
11				15	39725	2507.5	QPSK	50	15	0	≤ 3	25.21	21.5	3.71
							16-QAM	50	15	≤ 1		24.32	20.5	3.82
							64-QAM	50	15	≤ 2		23.32	19.5	3.82
12				15	39725	2507.5	QPSK	1	60	0	0	26.18	25.5	0.68
							16-QAM	1	60	≤ 1		25.81	24.5	1.31
							64-QAM	1	60	≤ 2		24.72	23.5	1.22
13				20	39750	2510	QPSK	1	0	0	≤ 5	26.23	20.5	5.73
							16-QAM	1	0	≤ 1		25.81	19.5	6.31
							64-QAM	1	0	≤ 2		24.79	18.5	6.29
14				20	39750	2510	QPSK	20	0	0	≤ 2	25.27	22.5	2.77
							16-QAM	20	0	≤ 1		24.34	21.5	2.84
							64-QAM	20	0	≤ 2		23.45	20.5	2.95
15				20	39750	2510	QPSK	100	0	0	≤ 4	25.23	20.5	4.73
							16-QAM	100	0	≤ 1		24.31	19.5	4.81
							64-QAM	100	0	≤ 2		23.33	18.5	4.83
16				20	39750	2510	QPSK	75	24	0	≤ 3	25.15	21.5	3.65
							16-QAM	75	24	≤ 1		24.24	20.5	3.74
							64-QAM	75	24	≤ 2		23.25	19.5	3.75
17				20	39750	2510	QPSK	1	77	0	0	26.13	25.5	0.63
							16-QAM	1	77	≤ 1		25.74	24.5	1.24
							64-QAM	1	77	≤ 2		24.67	23.5	1.17
18	01	311	490	5	39675	2502.5	QPSK	1	0	0	≤ 3	26.3	22.5	3.80
			16-QAM				≤ 1			25.89		21.5	4.39	
			64-QAM				≤ 2			24.92		20.5	4.42	
19	01	001	01	5	39675	2502.5	QPSK	1	0	0	0	26.32	25.5	0.82
			16-QAM				≤ 1			25.85		24.5	1.35	
			64-QAM				≤ 2			24.96		23.5	1.46	

Table 7-7. A-MPR Conducted Power Measurements

FCC ID: BCGA2072	 Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 233 of 389

7.7 Uplink Carrier Aggregation Conducted Measurements

§27.53(m)

Test Overview

The EUT is set up to transmit two contiguous LTE channels. The power level of both carriers and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates 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.

For Band 38/41, the minimum permissible attenuation level of any spurious emission is $55 + 10 \log_{10}(P_{[Watts]})$.

Test Procedure Used

KDB 971168 D01 v03r01 – Section 6.0

Test Settings

1. Start frequency was set to 30MHz and stop frequency was set to at least 10 * the fundamental frequency (separated into at least two plots per channel)
2. Detector = RMS
3. Trace mode = trace average for continuous emissions, max hold for pulse emissions
4. Sweep time = auto couple
5. The trace was allowed to stabilize
6. Please see test notes below for RBW and VBW settings

Test Setup

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

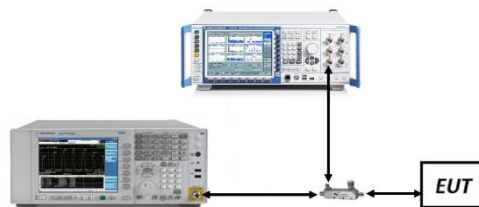


Figure 7-6. Test Instrument & Measurement Setup

FCC ID: BCGA2072	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 234 of 389

Test Notes

1. Uplink carrier aggregation is only supported in this EUT while operating in Power Class 3.
2. Conducted power and spurious emissions measurements were evaluated for the two contiguous channels using various combinations of RB size, RB offset, modulation, and channel bandwidth. Channel bandwidth data is shown in the tables below based only on the channel bandwidths that were supported in this device. The worst case (highest) powers were found while operating with QPSK modulation, as shown in the tables below, with both carriers set to transmit using 1RB.
3. Compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater for frequencies less than 1 GHz and 1 MHz or greater for frequencies greater than 1 GHz. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.
4. Uplink carrier aggregation inter-band emission was investigated and found to not be the worst case
5. Following data were re-used from model A2324 per Data Re-use KDB guidance defined by the FCC.

FCC ID: BCGA2072	 PCTEST Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Antenna 4

PCC						SCC						ULCA Tx.Power (dBm)
Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	
20450	829.0	10	QPSK	1	49	20549	838.9	10	QPSK	1	0	24.72
20525	836.5	10	QPSK	1	49	20597	843.7	5	QPSK	1	0	24.75
20600	844.0	10	QPSK	1	0	20501	834.1	10	QPSK	1	49	24.74

Table 7-8. Conducted Powers (B5 – PCC: RB Size 1 SCC: RB Size 1)

PCC						SCC						ULCA Tx.Power (dBm)
Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	
20450	829.0	10	QPSK	50	0	20549	838.9	10	QPSK	50	0	22.74
20450	829.0	10	16-QAM	50	0	20549	838.9	10	16-QAM	50	0	21.70
20450	829.0	10	64-QAM	50	0	20549	838.9	10	64-QAM	50	0	21.73

Table 7-9. Conducted Powers (B5 with Various Combinations for 10MHz Channel Bandwidth)

PCC						SCC						ULCA Tx.Power (dBm)
Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	
20850	2510.0	20	QPSK	1	99	21048	2529.8	20	QPSK	1	0	24.08
21100	2535.0	20	QPSK	1	99	21298	2554.8	20	QPSK	1	0	24.24
21350	2560	20	QPSK	1	0	21152	2540.2	20	QPSK	1	99	24.01

Table 7-10. Conducted Powers (B7 – PCC: RB Size 1 SCC: RB Size 1)

PCC						SCC						ULCA Tx.Power (dBm)
Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	
20850	2510.0	20	QPSK	100	0	21048	2529.8	20	QPSK	100	0	22.09
20850	2510.0	20	16-QAM	100	0	21048	2529.8	20	16-QAM	100	0	21.07
20850	2510.0	20	64-QAM	100	0	21048	2529.8	20	64-QAM	100	0	21.02

Table 7-11. Conducted Powers (B7 with Various Combinations for 20MHz Channel Bandwidth)

PCC						SCC						ULCA Tx.Power (dBm)
Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	
39750	2506.0	20	QPSK	1	99	39948	2525.8	20	QPSK	1	0	25.71
40620	2593.0	20	QPSK	1	99	40818	2612.8	20	QPSK	1	0	25.46
41490	2680.0	20	QPSK	1	0	41292	2660.2	20	QPSK	1	99	25.38

Table 7-12. Conducted Powers (B41 (PC2) – PCC: RB Size 1 SCC: RB Size 1)

PCC						SCC						ULCA Tx.Power (dBm)
Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	
39750	2506.0	20	QPSK	100	0	39948	2525.8	20	QPSK	100	0	23.79
39750	2506.0	20	16-QAM	100	0	39948	2525.8	20	16-QAM	100	0	22.80
39750	2506.0	20	64-QAM	100	0	39948	2525.8	20	64-QAM	100	0	22.81

Table 7-13. Conducted Powers (B41 (PC2) with Various Combinations for 20MHz Channel Bandwidth)

PCC						SCC						ULCA Tx.Power (dBm)
Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	
39750	2506.0	20	QPSK	1	99	39948	2525.8	20	QPSK	1	0	24.24
40620	2593.0	20	QPSK	1	99	40818	2612.8	20	QPSK	1	0	24.01
41490	2680.0	20	QPSK	1	0	41292	2660.2	20	QPSK	1	99	23.88

Table 7-14. Conducted Powers (B41 (PC3) – PCC: RB Size 1 SCC: RB Size 1)

PCC						SCC						ULCA Tx.Power (dBm)
Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	
39750	2506.0	20	QPSK	100	0	39948	2525.8	20	QPSK	100	0	22.35
39750	2506.0	20	16-QAM	100	0	39948	2525.8	20	16-QAM	100	0	21.34
39750	2506.0	20	64-QAM	100	0	39948	2525.8	20	64-QAM	100	0	21.35

Table 7-15. Conducted Powers (B41 (PC3) with Various Combinations for 20MHz Channel Bandwidth)

FCC ID: BCGA2072			MEASUREMENT REPORT (CERTIFICATION)				Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device		Page 236 of 389			

Antenna 3b

PCC						SCC						ULCA Tx.Power (dBm)
Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	
20450	829.0	10	QPSK	1	49	20549	838.9	10	QPSK	1	0	23.75
20525	836.5	10	QPSK	1	49	20597	843.7	5	QPSK	1	0	23.72
20600	844.0	10	QPSK	1	0	20501	834.1	10	QPSK	1	49	23.71

Table 7-16. Conducted Powers (B5 – PCC: RB Size 1 SCC: RB Size 1)

PCC						SCC						ULCA Tx.Power (dBm)
Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	
20450	829.0	10	QPSK	50	0	20549	838.9	10	QPSK	50	0	21.70
20450	829.0	10	16-QAM	50	0	20549	838.9	10	16-QAM	50	0	20.72
20450	829.0	10	64-QAM	50	0	20549	838.9	10	64-QAM	50	0	20.68

Table 7-17. Conducted Powers (B5 with Various Combinations for 10MHz Channel Bandwidth)

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Antenna 2a

PCC						SCC						ULCA Tx.Power (dBm)
Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	
20850	2510.0	20	QPSK	1	99	21048	2529.8	20	QPSK	1	0	23.15
21100	2535.0	20	QPSK	1	99	21298	2554.8	20	QPSK	1	0	23.21
21350	2560	20	QPSK	1	0	21152	2540.2	20	QPSK	1	99	23.18

Table 7-18. Conducted Powers (B7 – PCC: RB Size 1 SCC: RB Size 1)

PCC						SCC						ULCA Tx.Power (dBm)
Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	
20850	2510.0	20	QPSK	100	0	21048	2529.8	20	QPSK	100	0	21.22
20850	2510.0	20	16-QAM	100	0	21048	2529.8	20	16-QAM	100	0	20.24
20850	2510.0	20	64-QAM	100	0	21048	2529.8	20	64-QAM	100	0	20.21

Table 7-19. Conducted Powers (B7 with Various Combinations for 20MHz Channel Bandwidth)

PCC						SCC						ULCA Tx.Power (dBm)
Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	
39750	2506.0	20	QPSK	1	99	39948	2525.8	20	QPSK	1	0	25.24
40620	2593.0	20	QPSK	1	99	40818	2612.8	20	QPSK	1	0	25.13
41490	2680.0	20	QPSK	1	0	41292	2660.2	20	QPSK	1	99	25.01

Table 7-20. Conducted Powers (B41 (PC2) – PCC: RB Size 1 SCC: RB Size 1)

PCC						SCC						ULCA Tx.Power (dBm)
Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	
39750	2506.0	20	QPSK	100	0	39948	2525.8	20	QPSK	100	0	23.34
39750	2506.0	20	16-QAM	100	0	39948	2525.8	20	16-QAM	100	0	22.42
39750	2506.0	20	64-QAM	100	0	39948	2525.8	20	64-QAM	100	0	22.40

Table 7-21. Conducted Powers (B41 (PC2) with Various Combinations for 20MHz Channel Bandwidth)

PCC						SCC						ULCA Tx.Power (dBm)
Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	
39750	2506.0	20	QPSK	1	99	39948	2525.8	20	QPSK	1	0	23.21
40620	2593.0	20	QPSK	1	99	40818	2612.8	20	QPSK	1	0	23.16
41490	2680.0	20	QPSK	1	0	41292	2660.2	20	QPSK	1	99	22.96

Table 7-22. Conducted Powers (B41 (PC3) – PCC: RB Size 1 SCC: RB Size 1)

PCC						SCC						ULCA Tx.Power (dBm)
Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	
39750	2506.0	20	QPSK	100	0	39948	2525.8	20	QPSK	100	0	21.28
39750	2506.0	20	16-QAM	100	0	39948	2525.8	20	16-QAM	100	0	20.31
39750	2506.0	20	64-QAM	100	0	39948	2525.8	20	64-QAM	100	0	19.97

Table 7-23. Conducted Powers (B41 (PC3) with Various Combinations for 20MHz Channel Bandwidth)

FCC ID: BCGA2072			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device		Page 238 of 389

Antenna 1a

PCC						SCC						ULCA Tx.Power (dBm)
Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	
20850	2510.0	20	QPSK	1	99	21048	2529.8	20	QPSK	1	0	23.74
21100	2535.0	20	QPSK	1	99	21298	2554.8	20	QPSK	1	0	23.69
21350	2560	20	QPSK	1	0	21152	2540.2	20	QPSK	1	99	23.71

Table 7-24. Conducted Powers (B7 – PCC: RB Size 1 SCC: RB Size 1)

PCC						SCC						ULCA Tx.Power (dBm)
Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	
20850	2510.0	20	QPSK	100	0	21048	2529.8	20	QPSK	100	0	21.81
20850	2510.0	20	16-QAM	100	0	21048	2529.8	20	16-QAM	100	0	20.87
20850	2510.0	20	64-QAM	100	0	21048	2529.8	20	64-QAM	100	0	20.82

Table 7-25. Conducted Powers (B7 with Various Combinations for 20MHz Channel Bandwidth)

PCC						SCC						ULCA Tx.Power (dBm)
Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	
39750	2506.0	20	QPSK	1	99	39948	2525.8	20	QPSK	1	0	25.72
40620	2593.0	20	QPSK	1	99	40818	2612.8	20	QPSK	1	0	25.57
41490	2680.0	20	QPSK	1	0	41292	2660.2	20	QPSK	1	99	25.75

Table 7-26. Conducted Powers (B41 (PC2) – PCC: RB Size 1 SCC: RB Size 1)

PCC						SCC						ULCA Tx.Power (dBm)
Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	
39750	2506.0	20	QPSK	100	0	39948	2525.8	20	QPSK	100	0	23.72
39750	2506.0	20	16-QAM	100	0	39948	2525.8	20	16-QAM	100	0	22.69
39750	2506.0	20	64-QAM	100	0	39948	2525.8	20	64-QAM	100	0	22.74

Table 7-27. Conducted Powers (B41 (PC2) with Various Combinations for 20MHz Channel Bandwidth)

PCC						SCC						ULCA Tx.Power (dBm)
Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	
39750	2506.0	20	QPSK	1	99	39948	2525.8	20	QPSK	1	0	23.73
40620	2593.0	20	QPSK	1	99	40818	2612.8	20	QPSK	1	0	23.55
41490	2680.0	20	QPSK	1	0	41292	2660.2	20	QPSK	1	99	23.66

Table 7-28. Conducted Powers (B41 (PC3) – PCC: RB Size 1 SCC: RB Size 1)

PCC						SCC						ULCA Tx.Power (dBm)
Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	
39750	2506.0	20	QPSK	100	0	39948	2525.8	20	QPSK	100	0	21.51
39750	2506.0	20	16-QAM	100	0	39948	2525.8	20	16-QAM	100	0	20.56
39750	2506.0	20	64-QAM	100	0	39948	2525.8	20	64-QAM	100	0	20.54

Table 7-29. Conducted Powers (B41 (PC3) with Various Combinations for 20MHz Channel Bandwidth)

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Antenna 3a

PCC						SCC						ULCA Tx.Power (dBm)
Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	
20850	2510.0	20	QPSK	1	99	21048	2529.8	20	QPSK	1	0	23.00
21100	2535.0	20	QPSK	1	99	21298	2554.8	20	QPSK	1	0	22.85
21350	2560	20	QPSK	1	0	21152	2540.2	20	QPSK	1	99	22.95

Table 7-30. Conducted Powers (B7 – PCC: RB Size 1 SCC: RB Size 1)

PCC						SCC						ULCA Tx.Power (dBm)
Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	
20850	2510.0	20	QPSK	100	0	21048	2529.8	20	QPSK	100	0	20.92
20850	2510.0	20	16-QAM	100	0	21048	2529.8	20	16-QAM	100	0	19.91
20850	2510.0	20	64-QAM	100	0	21048	2529.8	20	64-QAM	100	0	19.88

Table 7-31. Conducted Powers (B7 with Various Combinations for 20MHz Channel Bandwidth)

PCC						SCC						ULCA Tx.Power (dBm)
Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	
39750	2506.0	20	QPSK	1	99	39948	2525.8	20	QPSK	1	0	25.00
40620	2593.0	20	QPSK	1	99	40818	2612.8	20	QPSK	1	0	24.96
41490	2680.0	20	QPSK	1	0	41292	2660.2	20	QPSK	1	99	24.78

Table 7-32. Conducted Powers (B41 (PC2) – PCC: RB Size 1 SCC: RB Size 1)

PCC						SCC						ULCA Tx.Power (dBm)
Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	
39750	2506.0	20	QPSK	100	0	39948	2525.8	20	QPSK	100	0	22.91
39750	2506.0	20	16-QAM	100	0	39948	2525.8	20	16-QAM	100	0	21.95
39750	2506.0	20	64-QAM	100	0	39948	2525.8	20	64-QAM	100	0	21.92

Table 7-33. Conducted Powers (B41 (PC2) with Various Combinations for 20MHz Channel Bandwidth)

PCC						SCC						ULCA Tx.Power (dBm)
Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	
39750	2506.0	20	QPSK	1	99	39948	2525.8	20	QPSK	1	0	22.97
40620	2593.0	20	QPSK	1	99	40818	2612.8	20	QPSK	1	0	23.00
41490	2680.0	20	QPSK	1	0	41292	2660.2	20	QPSK	1	99	22.94

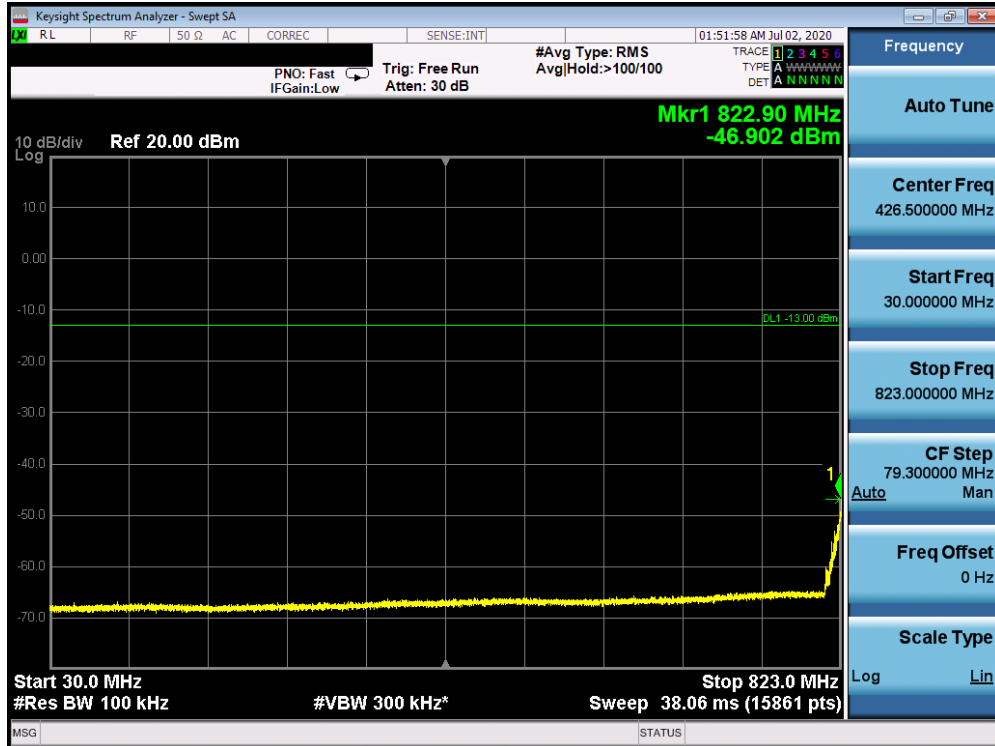
Table 7-34. Conducted Powers (B41 (PC3) – PCC: RB Size 1 SCC: RB Size 1)

PCC						SCC						ULCA Tx.Power (dBm)
Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	
39750	2506.0	20	QPSK	100	0	39948	2525.8	20	QPSK	100	0	21.00
39750	2506.0	20	16-QAM	100	0	39948	2525.8	20	16-QAM	100	0	19.99
39750	2506.0	20	64-QAM	100	0	39948	2525.8	20	64-QAM	100	0	19.99

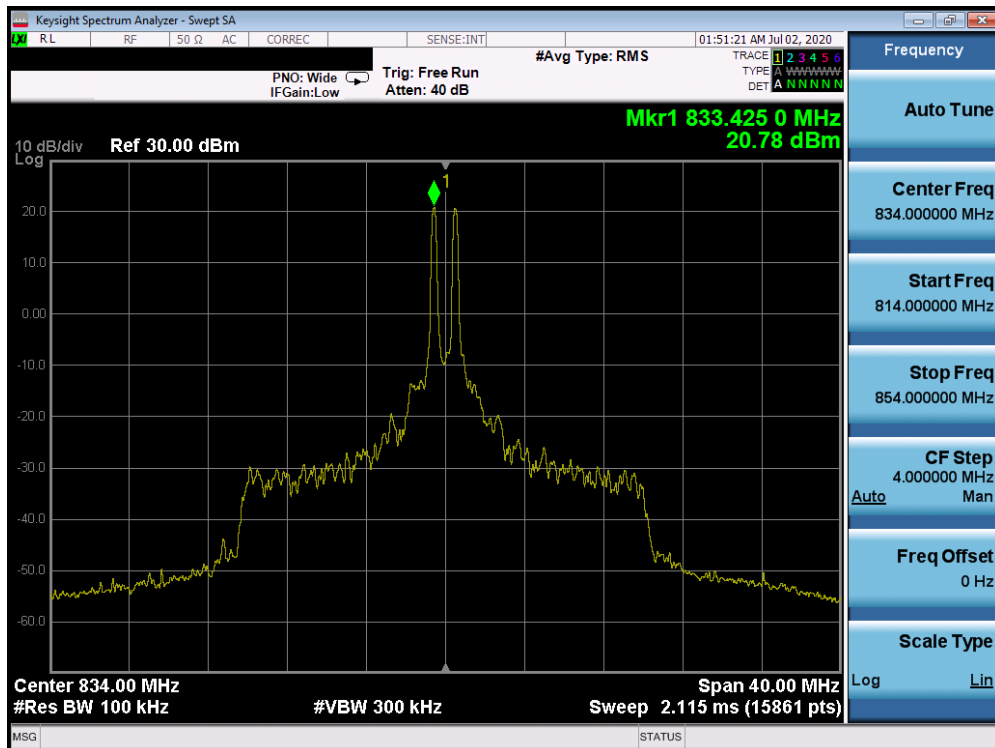
Table 7-35. Conducted Powers (B41 (PC3) with Various Combinations for 20MHz Channel Bandwidth)

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Band 5

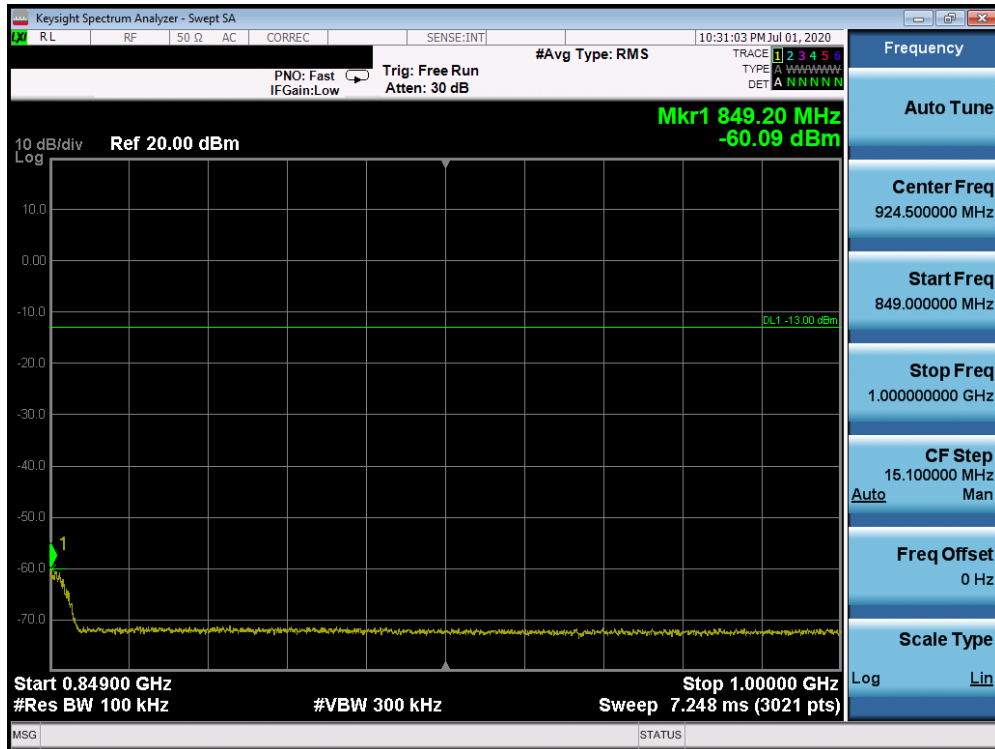


Plot 7-389. Conducted Spurious Plot (Band 5 – 10.0MHz QPSK – PCC 1/49 SCC 1/0 – Low Channel)

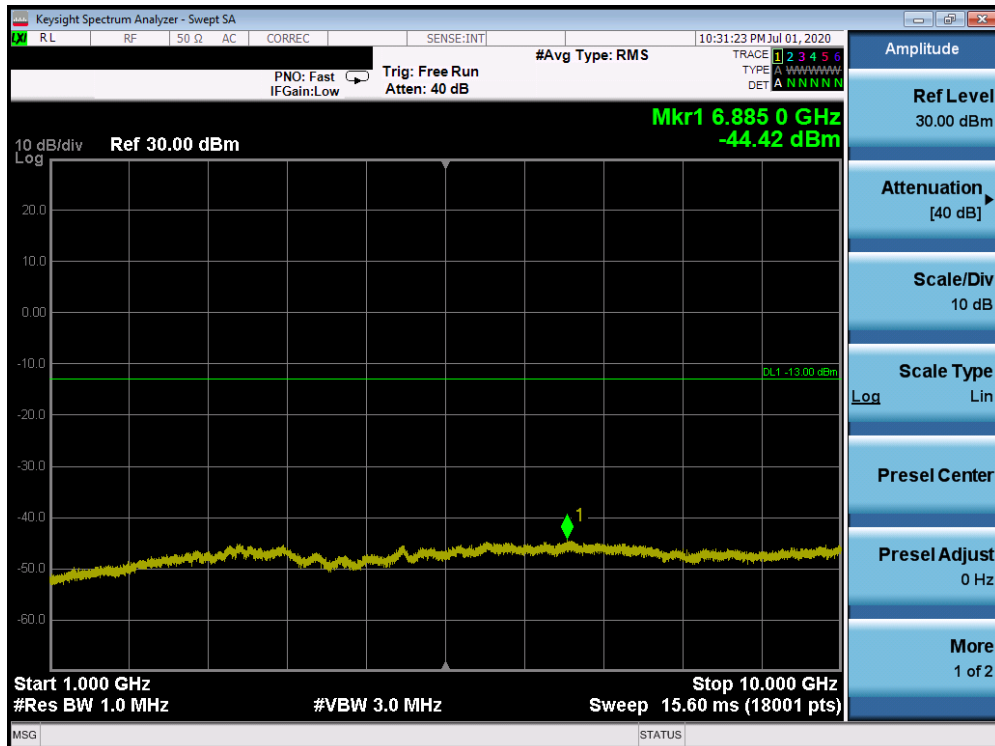


Plot 7-390. Conducted Spurious Plot (Band 5 – 10.0MHz QPSK – PCC 1/49 SCC 1/0 – Low Channel)

FCC ID: BCGA2072	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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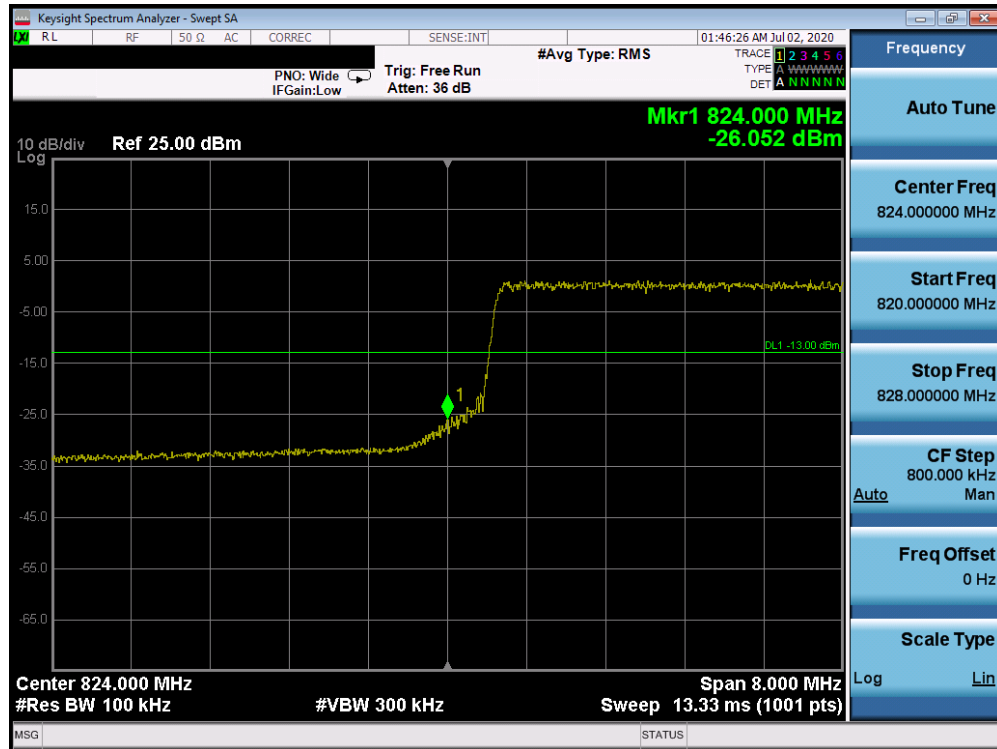


Plot 7-391. Conducted Spurious Plot (Band 5 – 10.0MHz QPSK – PCC 1/49 SCC 1/0 – Low Channel)



Plot 7-392. Conducted Spurious Plot (Band 5 – 10.0MHz QPSK – PCC 1/49 SCC 1/0 – Low Channel)

FCC ID: BCGA2072	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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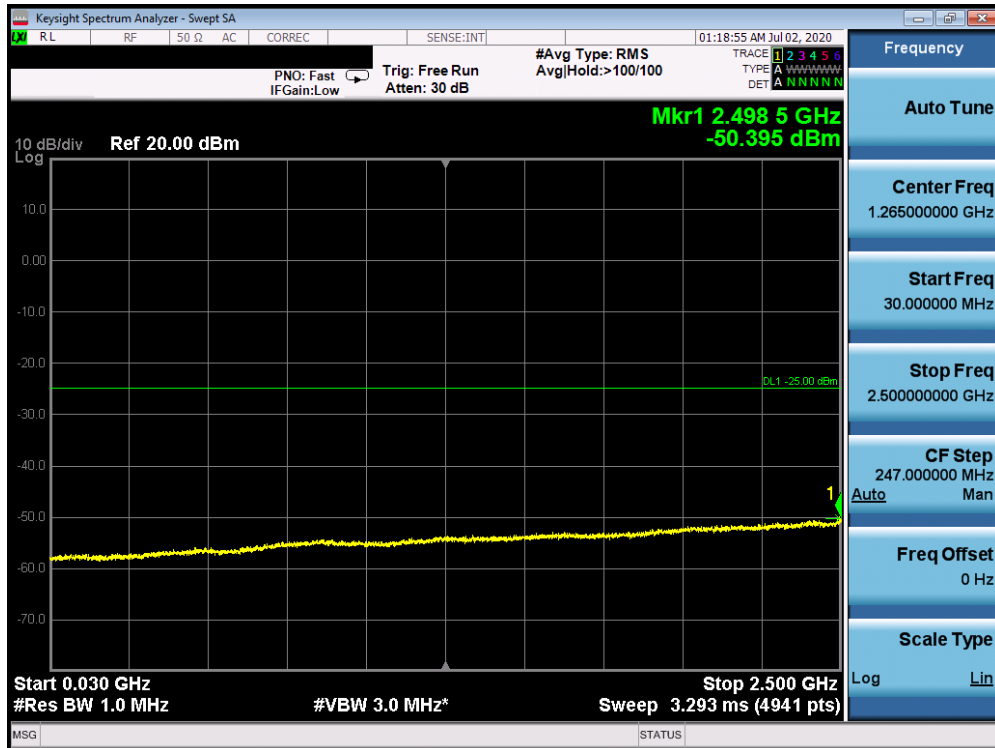
Plot 7-393. Lower ACP Plot (Band 5 QPSK – PCC:10 MHz SCC:10 MHz – Full RB)



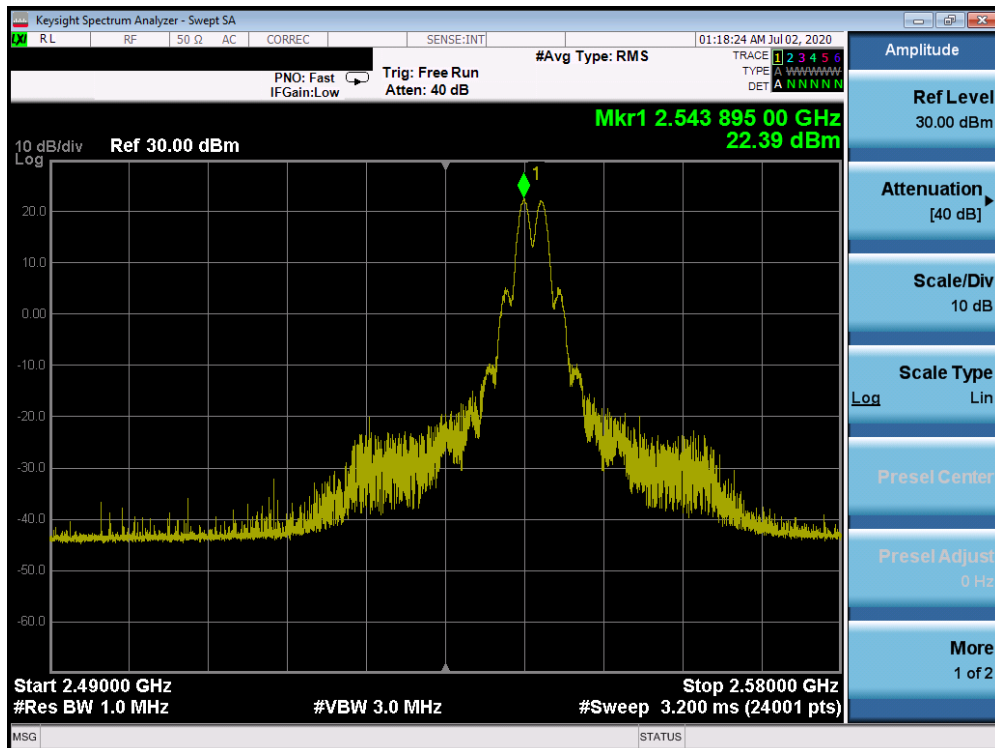
Plot 7-394. Upper ACP Plot (Band 5 QPSK – PCC:10 MHz SCC:10 MHz – Full RB)

FCC ID: BCGA2072	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Band 7



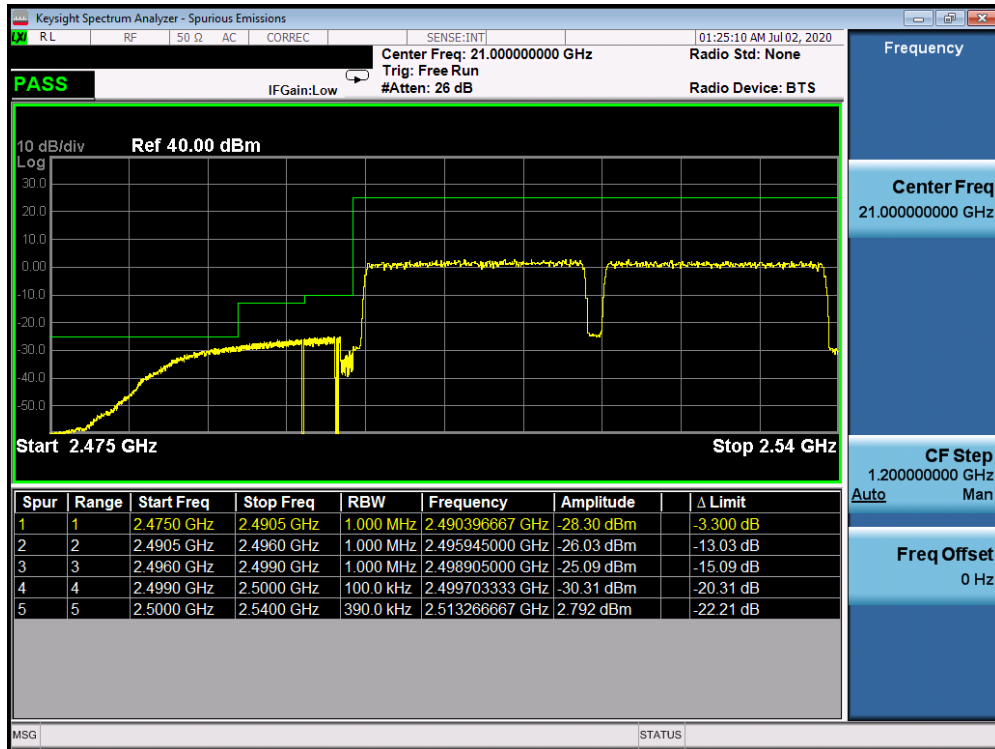
Plot 7-395. Conducted Spurious Plot (Band 7 – 20.0MHz QPSK – PCC 1/99 SCC 1/0 – Mid Channel)



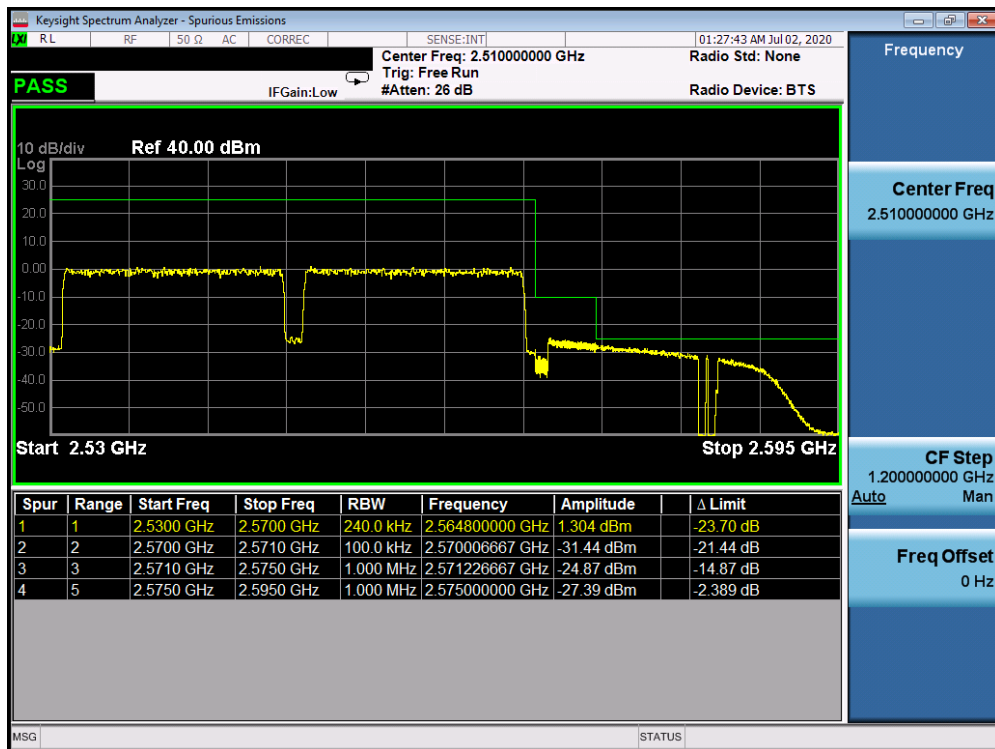
Plot 7-396. Conducted Spurious Plot (Band 7 – 20.0MHz QPSK – PCC 1/99 SCC 1/0 – Mid Channel)

FCC ID: BCGA2072	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 244 of 389



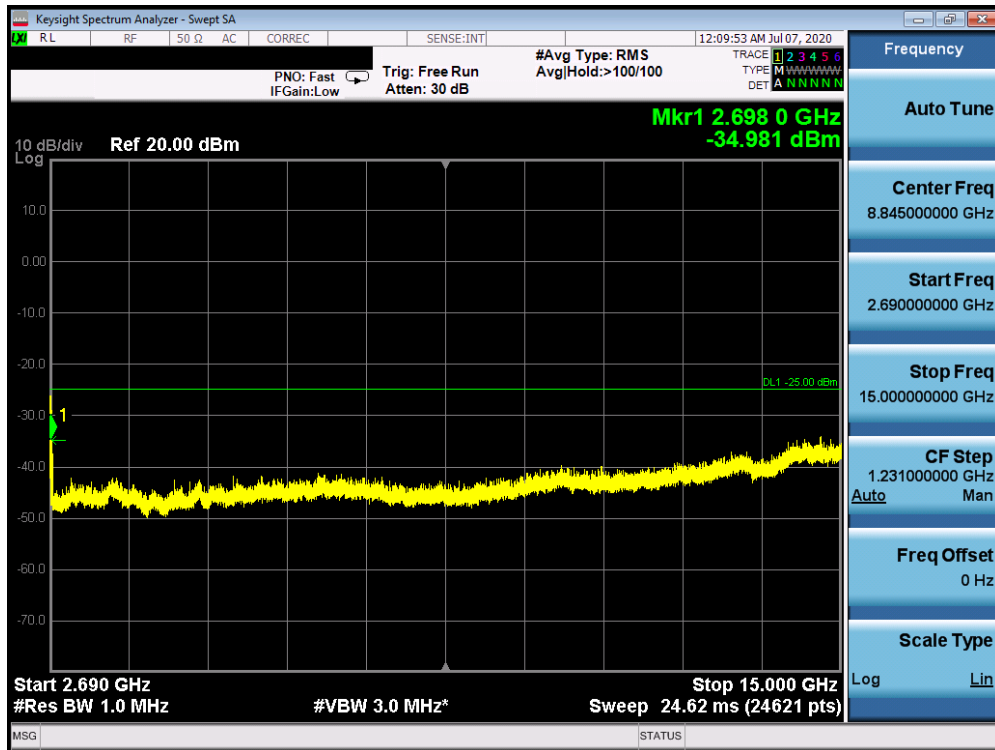


Plot 7-399. Lower ACP Plot (Band 7 QPSK – PCC:20 MHz SCC:20 MHz – Full RB)

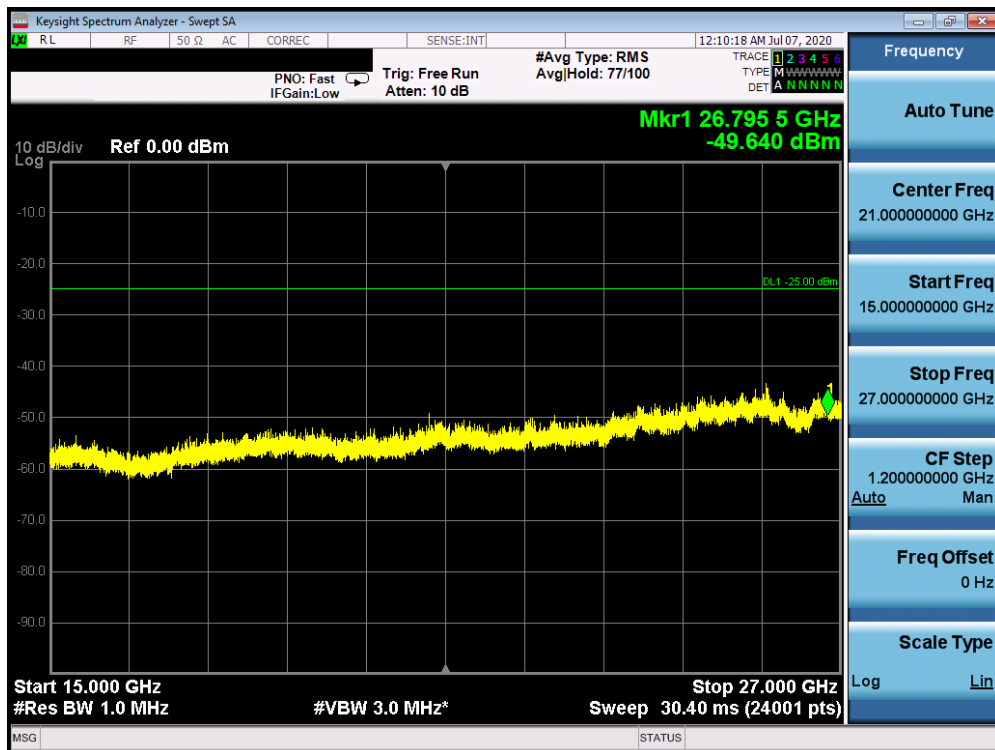


Plot 7-400. Upper ACP Plot (Band 7 QPSK – PCC:20 MHz SCC:20 MHz – Full RB)

FCC ID: BCGA2072	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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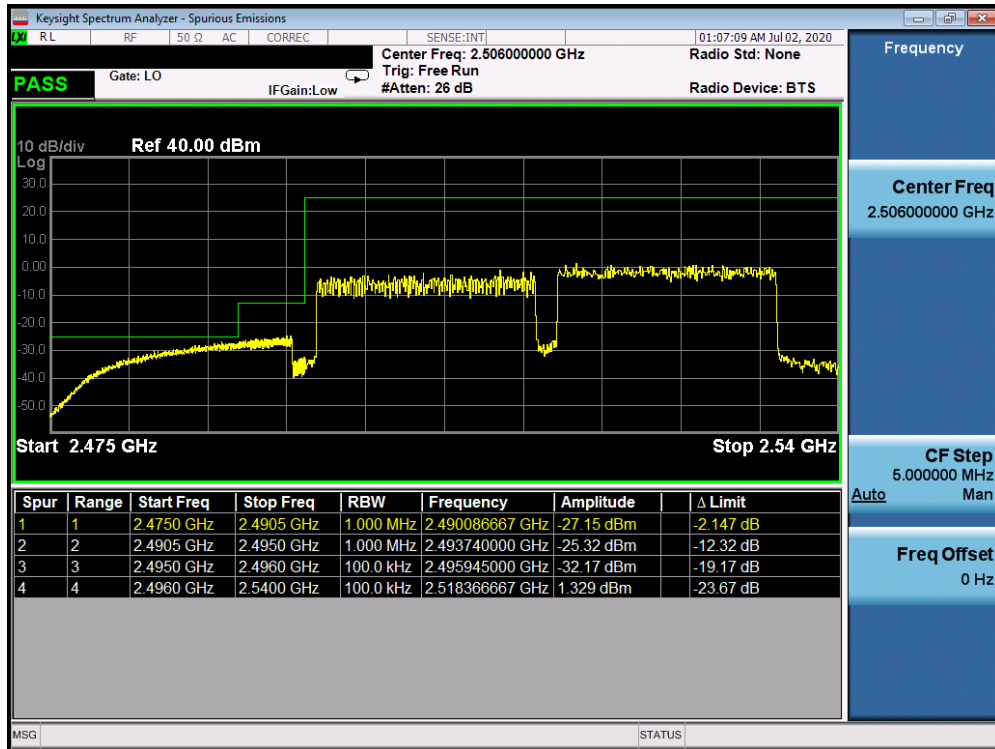


Plot 7-403. Conducted Spurious Plot (Band 41 – 20.0MHz QPSK – PCC 1/99 SCC 1/0 – Mid Channel)

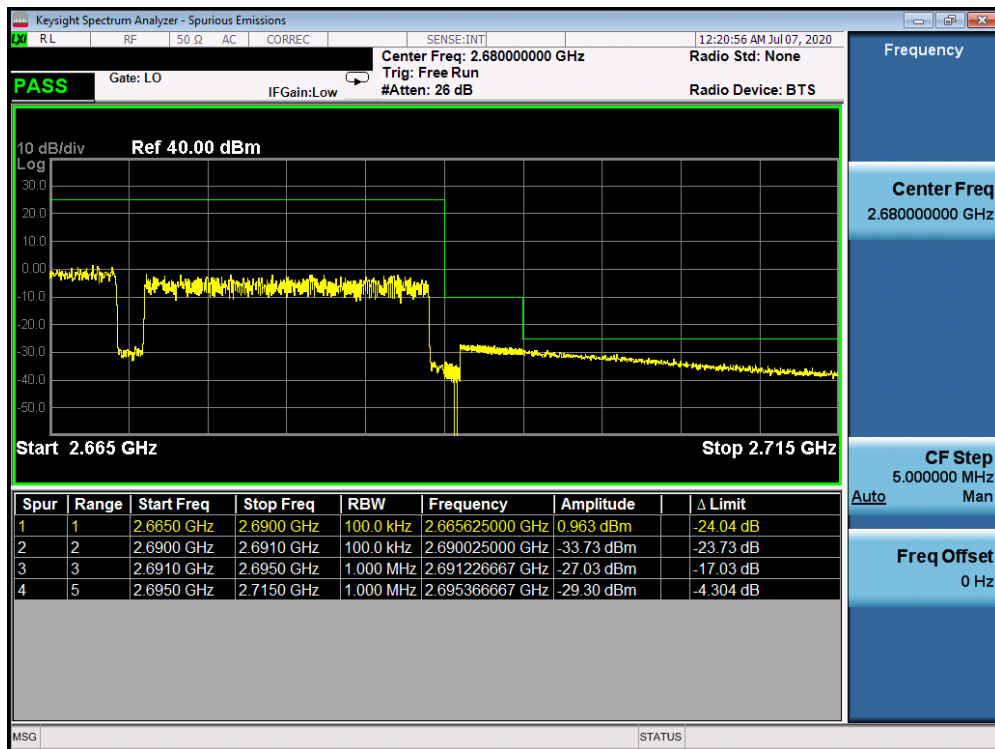


Plot 7-404. Conducted Spurious Plot (Band 41 – 20.0MHz QPSK – PCC 1/99 SCC 1/0 – Mid Channel)

FCC ID: BCGA2072	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-405. Lower ACP Plot (Band 41 QPSK – PCC:20 MHz SCC:20 MHz – Full RB)



Plot 7-406. Upper ACP Plot (Band 41 QPSK – PCC:20 MHz SCC:20 MHz – Full RB)

FCC ID: BCGA2072	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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7.8 Radiated Power (ERP/EIRP)

Test Overview

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

Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.2.1
ANSI C63.26-2015 – Section 5.2.5.5

Test Settings

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

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

Where:

ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as PMeas, typically dBW or dBm)

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

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

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

Test Setup

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



Figure 7-7. ERP/EIRP Measurement Setup

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. Following data were re-used from model A2324 per Data Re-use KDB guidance defined by the FCC.

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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7.8.1 Antenna 4 - ERP/EIRP

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
699.70	1.4	QPSK	1 / 0	25.34	-2.10	21.09	0.129	34.77	-13.68	23.24	0.211	36.99	-13.75
707.50	1.4	QPSK	1 / 5	25.47	-2.10	21.22	0.132	34.77	-13.55	23.37	0.217	36.99	-13.62
715.30	1.4	QPSK	1 / 2	25.50	-2.10	21.25	0.133	34.77	-13.52	23.40	0.219	36.99	-13.59
715.30	1.4	16-QAM	1 / 5	24.49	-2.10	20.24	0.106	34.77	-14.53	22.39	0.173	36.99	-14.60
715.30	1.4	64-QAM	1 / 2	23.71	-2.10	19.46	0.088	34.77	-15.31	21.61	0.145	36.99	-15.38
700.50	3	QPSK	1 / 0	25.28	-2.10	21.03	0.127	34.77	-13.74	23.18	0.208	36.99	-13.81
707.50	3	QPSK	1 / 14	25.50	-2.10	21.25	0.133	34.77	-13.52	23.40	0.219	36.99	-13.59
714.50	3	QPSK	1 / 7	25.45	-2.10	21.20	0.132	34.77	-13.57	23.35	0.216	36.99	-13.64
707.50	3	16-QAM	1 / 0	24.79	-2.10	20.54	0.113	34.77	-14.23	22.69	0.186	36.99	-14.30
707.50	3	64-QAM	1 / 14	23.77	-2.10	19.52	0.090	34.77	-15.25	21.67	0.147	36.99	-15.32
701.50	5	QPSK	1 / 0	25.37	-2.10	21.12	0.129	34.77	-13.65	23.27	0.212	36.99	-13.72
707.50	5	QPSK	1 / 24	25.50	-2.10	21.25	0.133	34.77	-13.52	23.40	0.219	36.99	-13.59
713.50	5	QPSK	1 / 0	25.18	-2.10	20.93	0.124	34.77	-13.84	23.08	0.203	36.99	-13.91
707.50	5	16-QAM	1 / 24	24.84	-2.10	20.59	0.115	34.77	-14.18	22.74	0.188	36.99	-14.25
707.50	5	64-QAM	1 / 24	23.63	-2.10	19.38	0.087	34.77	-15.39	21.53	0.142	36.99	-15.46
704.00	10	QPSK	1 / 49	25.41	-2.10	21.16	0.131	34.77	-13.61	23.31	0.214	36.99	-13.68
707.50	10	QPSK	1 / 49	25.50	-2.10	21.25	0.133	34.77	-13.52	23.40	0.219	36.99	-13.59
711.00	10	QPSK	1 / 25	25.43	-2.10	21.18	0.131	34.77	-13.59	23.33	0.215	36.99	-13.66
707.50	10	16-QAM	1 / 25	24.86	-2.10	20.61	0.115	34.77	-14.16	22.76	0.189	36.99	-14.23
707.50	10	64-QAM	1 / 49	23.73	-2.10	19.48	0.089	34.77	-15.29	21.63	0.146	36.99	-15.36

Table 7-36. Antenna 4 ERP/EIRP Data (Band 12)

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
706.50	5	QPSK	1 / 24	25.37	-2.10	21.12	0.129	34.77	-13.65	23.27	0.212	36.99	-13.72
710.00	5	QPSK	1 / 24	25.50	-2.10	21.25	0.133	34.77	-13.52	23.40	0.219	36.99	-13.59
713.50	5	QPSK	1 / 0	25.12	-2.10	20.87	0.122	34.77	-13.90	23.02	0.200	36.99	-13.97
710.00	5	16-QAM	1 / 24	24.77	-2.10	20.52	0.113	34.77	-14.25	22.67	0.185	36.99	-14.32
710.00	5	64-QAM	1 / 24	23.75	-2.10	19.50	0.089	34.77	-15.27	21.65	0.146	36.99	-15.34
709.00	10	QPSK	1 / 49	25.50	-2.10	21.25	0.133	34.77	-13.52	23.40	0.219	36.99	-13.59
710.00	10	QPSK	1 / 25	25.48	-2.10	21.23	0.133	34.77	-13.54	23.38	0.218	36.99	-13.61
711.00	10	QPSK	1 / 25	25.47	-2.10	21.22	0.132	34.77	-13.55	23.37	0.217	36.99	-13.62
709.00	10	16-QAM	1 / 49	25.02	-2.10	20.77	0.119	34.77	-14.00	22.92	0.196	36.99	-14.07
709.00	10	64-QAM	1 / 25	23.83	-2.10	19.58	0.091	34.77	-15.19	21.73	0.149	36.99	-15.26

Table 7-37. Antenna 4 ERP/EIRP Data (Band 17)

FCC ID: BCGA2072		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 251 of 389

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
779.50	5	QPSK	1 / 24	25.40	-2.10	21.15	0.130	34.77	-13.62	23.30	0.214	36.99	-13.69
782.00	5	QPSK	1 / 24	25.50	-2.10	21.25	0.133	34.77	-13.52	23.40	0.219	36.99	-13.59
784.50	5	QPSK	1 / 24	25.25	-2.10	21.00	0.126	34.77	-13.77	23.15	0.207	36.99	-13.84
782.00	5	16-QAM	1 / 24	24.73	-2.10	20.48	0.112	34.77	-14.29	22.63	0.183	36.99	-14.36
782.00	5	64-QAM	1 / 0	23.75	-2.10	19.50	0.089	34.77	-15.27	21.65	0.146	36.99	-15.34
782.00	10	QPSK	1 / 49	25.50	-2.10	21.25	0.133	34.77	-13.52	23.40	0.219	36.99	-13.59
782.00	10	16-QAM	1 / 0	25.06	-2.10	20.81	0.121	34.77	-13.96	22.96	0.198	36.99	-14.03
782.00	10	64-QAM	1 / 0	23.97	-2.10	19.72	0.094	34.77	-15.05	21.87	0.154	36.99	-15.12

Table 7-38. Antenna 4 ERP/EIRP Data (Band 13)

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
824.70	1.4	QPSK	1 / 0	25.24	-1.50	21.59	0.144	38.45	-16.86	23.74	0.237	40.61	-16.87
836.50	1.4	QPSK	1 / 5	25.28	-1.50	21.63	0.146	38.45	-16.82	23.78	0.239	40.61	-16.83
848.30	1.4	QPSK	1 / 5	25.50	-1.50	21.85	0.153	38.45	-16.60	24.00	0.251	40.61	-16.61
848.30	1.4	16-QAM	1 / 0	24.61	-1.50	20.96	0.125	38.45	-17.49	23.11	0.205	40.61	-17.50
848.30	1.4	64-QAM	1 / 0	23.86	-1.50	20.21	0.105	38.45	-18.24	22.36	0.172	40.61	-18.25
825.50	3	QPSK	1 / 0	25.46	-1.50	21.81	0.152	38.45	-16.64	23.96	0.249	40.61	-16.65
836.50	3	QPSK	1 / 7	25.50	-1.50	21.85	0.153	38.45	-16.60	24.00	0.251	40.61	-16.61
847.50	3	QPSK	1 / 14	25.28	-1.50	21.63	0.146	38.45	-16.82	23.78	0.239	40.61	-16.83
836.50	3	16-QAM	1 / 7	24.86	-1.50	21.21	0.132	38.45	-17.24	23.36	0.217	40.61	-17.25
836.50	3	64-QAM	1 / 0	23.67	-1.50	20.02	0.100	38.45	-18.43	22.17	0.165	40.61	-18.44
826.50	5	QPSK	1 / 0	25.50	-1.50	21.85	0.153	38.45	-16.60	24.00	0.251	40.61	-16.61
836.50	5	QPSK	1 / 24	25.42	-1.50	21.77	0.150	38.45	-16.68	23.92	0.247	40.61	-16.69
846.50	5	QPSK	1 / 24	25.26	-1.50	21.61	0.145	38.45	-16.84	23.76	0.238	40.61	-16.85
826.50	5	16-QAM	1 / 12	24.77	-1.50	21.12	0.129	38.45	-17.33	23.27	0.212	40.61	-17.34
826.50	5	64-QAM	1 / 0	23.73	-1.50	20.08	0.102	38.45	-18.37	22.23	0.167	40.61	-18.38
829.00	10	QPSK	1 / 0	25.50	-1.50	21.85	0.153	38.45	-16.60	24.00	0.251	40.61	-16.61
836.50	10	QPSK	1 / 49	25.31	-1.50	21.66	0.147	38.45	-16.79	23.81	0.240	40.61	-16.80
844.00	10	QPSK	1 / 49	25.50	-1.50	21.85	0.153	38.45	-16.60	24.00	0.251	40.61	-16.61
829.00	10	16-QAM	1 / 0	24.84	-1.50	21.19	0.132	38.45	-17.26	23.34	0.216	40.61	-17.27
829.00	10	64-QAM	1 / 0	23.78	-1.50	20.13	0.103	38.45	-18.32	22.28	0.169	40.61	-18.33

Table 7-39. Antenna 4 ERP/EIRP Data (Band 5)

FCC ID: BCGA2072	 PCTEST Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 252 of 389

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
824.70	1.4	QPSK	1 / 0	25.28	-1.50	21.63	0.146	38.45	-16.82	23.78	0.239	40.61	-16.83
836.50	1.4	QPSK	1 / 5	25.29	-1.50	21.64	0.146	38.45	-16.81	23.79	0.239	40.61	-16.82
848.30	1.4	QPSK	1 / 5	25.50	-1.50	21.85	0.153	38.45	-16.60	24.00	0.251	40.61	-16.61
848.30	1.4	16-QAM	1 / 5	24.57	-1.50	20.92	0.124	38.45	-17.53	23.07	0.203	40.61	-17.54
848.30	1.4	64-QAM	1 / 5	23.67	-1.50	20.02	0.100	38.45	-18.43	22.17	0.165	40.61	-18.44
825.50	3	QPSK	1 / 0	25.48	-1.50	21.83	0.152	38.45	-16.62	23.98	0.250	40.61	-16.63
836.50	3	QPSK	1 / 7	25.50	-1.50	21.85	0.153	38.45	-16.60	24.00	0.251	40.61	-16.61
847.50	3	QPSK	1 / 14	25.29	-1.50	21.64	0.146	38.45	-16.81	23.79	0.239	40.61	-16.82
836.50	3	16-QAM	1 / 7	24.98	-1.50	21.33	0.136	38.45	-17.12	23.48	0.223	40.61	-17.13
836.50	3	64-QAM	1 / 7	23.65	-1.50	20.00	0.100	38.45	-18.45	22.15	0.164	40.61	-18.46
826.50	5	QPSK	1 / 0	25.50	-1.50	21.85	0.153	38.45	-16.60	24.00	0.251	40.61	-16.61
836.50	5	QPSK	1 / 24	25.46	-1.50	21.81	0.152	38.45	-16.64	23.96	0.249	40.61	-16.65
846.50	5	QPSK	1 / 24	25.30	-1.50	21.65	0.146	38.45	-16.80	23.80	0.240	40.61	-16.81
826.50	5	16-QAM	1 / 0	24.95	-1.50	21.30	0.135	38.45	-17.15	23.45	0.221	40.61	-17.16
826.50	5	64-QAM	1 / 0	23.71	-1.50	20.06	0.101	38.45	-18.39	22.21	0.166	40.61	-18.40
829.00	10	QPSK	1 / 0	25.50	-1.50	21.85	0.153	38.45	-16.60	24.00	0.251	40.61	-16.61
836.50	10	QPSK	1 / 49	25.31	-1.50	21.66	0.147	38.45	-16.79	23.81	0.240	40.61	-16.80
844.00	10	QPSK	1 / 49	25.50	-1.50	21.85	0.153	38.45	-16.60	24.00	0.251	40.61	-16.61
829.00	10	16-QAM	1 / 0	24.68	-1.50	21.03	0.127	38.45	-17.42	23.18	0.208	40.61	-17.43
829.00	10	64-QAM	1 / 0	23.80	-1.50	20.15	0.104	38.45	-18.30	22.30	0.170	40.61	-18.31

Table 7-40. Antenna 4 ERP/EIRP Data (Band 26)

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 253 of 389

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1710.70	1.4	QPSK	1 / 0	24.50	0.60	25.10	0.324	30.00	-4.90
1732.50	1.4	QPSK	1 / 5	24.63	0.60	25.23	0.333	30.00	-4.77
1754.30	1.4	QPSK	1 / 5	24.75	0.60	25.35	0.343	30.00	-4.65
1754.30	1.4	16-QAM	1 / 5	23.81	0.60	24.41	0.276	30.00	-5.59
1754.30	1.4	64-QAM	1 / 5	23.11	0.60	23.71	0.235	30.00	-6.29
1711.50	3	QPSK	1 / 7	24.44	0.60	25.04	0.319	30.00	-4.96
1732.50	3	QPSK	1 / 7	24.59	0.60	25.19	0.330	30.00	-4.81
1753.50	3	QPSK	1 / 7	24.50	0.60	25.10	0.324	30.00	-4.90
1732.50	3	16-QAM	1 / 14	23.95	0.60	24.55	0.285	30.00	-5.45
1732.50	3	64-QAM	1 / 0	22.79	0.60	23.39	0.218	30.00	-6.61
1712.50	5	QPSK	1 / 0	24.64	0.60	25.24	0.334	30.00	-4.76
1732.50	5	QPSK	1 / 0	24.75	0.60	25.35	0.343	30.00	-4.65
1752.50	5	QPSK	1 / 24	24.61	0.60	25.21	0.332	30.00	-4.79
1732.50	5	16-QAM	1 / 24	24.06	0.60	24.66	0.292	30.00	-5.34
1732.50	5	64-QAM	1 / 0	22.96	0.60	23.56	0.227	30.00	-6.44
1715.00	10	QPSK	1 / 49	24.63	0.60	25.23	0.333	30.00	-4.77
1732.50	10	QPSK	1 / 49	24.71	0.60	25.31	0.340	30.00	-4.69
1750.00	10	QPSK	1 / 49	24.68	0.60	25.28	0.337	30.00	-4.72
1732.50	10	16-QAM	1 / 49	24.24	0.60	24.84	0.305	30.00	-5.16
1732.50	10	64-QAM	1 / 0	22.91	0.60	23.51	0.224	30.00	-6.49
1717.50	15	QPSK	1 / 74	24.75	0.60	25.35	0.343	30.00	-4.65
1732.50	15	QPSK	1 / 74	24.64	0.60	25.24	0.334	30.00	-4.76
1747.50	15	QPSK	1 / 74	24.66	0.60	25.26	0.336	30.00	-4.74
1717.50	15	16-QAM	1 / 74	23.92	0.60	24.52	0.283	30.00	-5.48
1717.50	15	64-QAM	1 / 74	22.93	0.60	23.53	0.225	30.00	-6.47
1720.00	20	QPSK	1 / 50	24.73	0.60	25.33	0.341	30.00	-4.67
1732.50	20	QPSK	1 / 99	24.57	0.60	25.17	0.329	30.00	-4.83
1745.00	20	QPSK	1 / 99	24.75	0.60	25.35	0.343	30.00	-4.65
1745.00	20	16-QAM	1 / 99	24.13	0.60	24.73	0.297	30.00	-5.27
1745.00	20	64-QAM	1 / 0	22.91	0.60	23.51	0.224	30.00	-6.49

Table 7-41. Antenna 4 EIRP Data (Band 4)

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1710.70	1.4	QPSK	1 / 0	24.50	0.60	25.10	0.324	30.00	-4.90
1745.00	1.4	QPSK	1 / 5	24.69	0.60	25.29	0.338	30.00	-4.71
1779.30	1.4	QPSK	1 / 5	24.75	0.60	25.35	0.343	30.00	-4.65
1779.30	1.4	16-QAM	1 / 2	23.85	0.60	24.45	0.279	30.00	-5.55
1779.30	1.4	64-QAM	1 / 2	23.11	0.60	23.71	0.235	30.00	-6.29
1711.50	3	QPSK	1 / 7	24.46	0.60	25.06	0.321	30.00	-4.94
1745.00	3	QPSK	1 / 14	24.68	0.60	25.28	0.337	30.00	-4.72
1778.50	3	QPSK	1 / 7	24.60	0.60	25.20	0.331	30.00	-4.80
1745.00	3	16-QAM	1 / 0	23.86	0.60	24.46	0.279	30.00	-5.54
1745.00	3	64-QAM	1 / 0	22.77	0.60	23.37	0.217	30.00	-6.63
1712.50	5	QPSK	1 / 0	24.62	0.60	25.22	0.333	30.00	-4.78
1745.00	5	QPSK	1 / 24	24.75	0.60	25.35	0.343	30.00	-4.65
1777.50	5	QPSK	1 / 24	24.65	0.60	25.25	0.335	30.00	-4.75
1745.00	5	16-QAM	1 / 24	24.14	0.60	24.74	0.298	30.00	-5.26
1745.00	5	64-QAM	1 / 0	22.97	0.60	23.57	0.228	30.00	-6.43
1715.00	10	QPSK	1 / 49	24.63	0.60	25.23	0.333	30.00	-4.77
1745.00	10	QPSK	1 / 49	24.72	0.60	25.32	0.340	30.00	-4.68
1775.00	10	QPSK	1 / 49	24.75	0.60	25.35	0.343	30.00	-4.65
1775.00	10	16-QAM	1 / 0	24.22	0.60	24.82	0.303	30.00	-5.18
1775.00	10	64-QAM	1 / 49	23.12	0.60	23.72	0.236	30.00	-6.28
1717.50	15	QPSK	1 / 74	24.75	0.60	25.35	0.343	30.00	-4.65
1745.00	15	QPSK	1 / 36	24.70	0.60	25.30	0.339	30.00	-4.70
1772.50	15	QPSK	1 / 0	24.74	0.60	25.34	0.342	30.00	-4.66
1717.50	15	16-QAM	1 / 36	23.80	0.60	24.40	0.275	30.00	-5.60
1717.50	15	64-QAM	1 / 74	22.97	0.60	23.57	0.228	30.00	-6.43
1720.00	20	QPSK	1 / 50	24.72	0.60	25.32	0.340	30.00	-4.68
1745.00	20	QPSK	1 / 0	24.60	0.60	25.20	0.331	30.00	-4.80
1770.00	20	QPSK	1 / 50	24.75	0.60	25.35	0.343	30.00	-4.65
1770.00	20	16-QAM	1 / 50	24.07	0.60	24.67	0.293	30.00	-5.33
1770.00	20	64-QAM	1 / 99	23.06	0.60	23.66	0.232	30.00	-6.34

Table 7-42. Antenna 4 EIRP Data (Band 66)

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 255 of 389

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1850.70	1.4	QPSK	1 / 5	24.56	-0.20	24.36	0.273	33.01	-8.65
1880.00	1.4	QPSK	1 / 0	24.44	-0.20	24.24	0.265	33.01	-8.77
1909.30	1.4	QPSK	1 / 5	24.32	-0.20	24.12	0.258	33.01	-8.89
1850.70	1.4	16-QAM	1 / 5	24.07	-0.20	23.87	0.244	33.01	-9.14
1850.70	1.4	64-QAM	1 / 0	22.93	-0.20	22.73	0.187	33.01	-10.28
1851.50	3	QPSK	1 / 7	24.54	-0.20	24.34	0.272	33.01	-8.67
1880.00	3	QPSK	1 / 7	24.33	-0.20	24.13	0.259	33.01	-8.88
1908.50	3	QPSK	1 / 0	24.59	-0.20	24.39	0.275	33.01	-8.62
1851.50	3	16-QAM	1 / 7	23.93	-0.20	23.73	0.236	33.01	-9.28
1851.50	3	64-QAM	1 / 0	22.91	-0.20	22.71	0.187	33.01	-10.30
1852.50	5	QPSK	1 / 0	24.72	-0.20	24.52	0.283	33.01	-8.49
1880.00	5	QPSK	1 / 0	24.62	-0.20	24.42	0.277	33.01	-8.59
1907.50	5	QPSK	1 / 0	24.26	-0.20	24.06	0.255	33.01	-8.95
1852.50	5	16-QAM	1 / 0	24.07	-0.20	23.87	0.244	33.01	-9.14
1852.50	5	64-QAM	1 / 0	22.98	-0.20	22.78	0.190	33.01	-10.23
1855.00	10	QPSK	1 / 0	24.71	-0.20	24.51	0.282	33.01	-8.50
1880.00	10	QPSK	1 / 0	24.46	-0.20	24.26	0.267	33.01	-8.75
1905.00	10	QPSK	1 / 25	24.46	-0.20	24.26	0.267	33.01	-8.75
1855.00	10	16-QAM	1 / 0	24.03	-0.20	23.83	0.242	33.01	-9.18
1855.00	10	64-QAM	1 / 0	22.96	-0.20	22.76	0.189	33.01	-10.25
1857.50	15	QPSK	1 / 0	24.75	-0.20	24.55	0.285	33.01	-8.46
1880.00	15	QPSK	1 / 74	24.46	-0.20	24.26	0.267	33.01	-8.75
1902.50	15	QPSK	1 / 0	24.57	-0.20	24.37	0.274	33.01	-8.64
1857.50	15	16-QAM	1 / 36	23.76	-0.20	23.56	0.227	33.01	-9.45
1857.50	15	64-QAM	1 / 36	22.93	-0.20	22.73	0.187	33.01	-10.28
1860.00	20	QPSK	1 / 0	24.75	-0.20	24.55	0.285	33.01	-8.46
1880.00	20	QPSK	1 / 99	24.48	-0.20	24.28	0.268	33.01	-8.73
1900.00	20	QPSK	1 / 0	24.71	-0.20	24.51	0.282	33.01	-8.50
1860.00	20	16-QAM	1 / 0	24.06	-0.20	23.86	0.243	33.01	-9.15
1860.00	20	64-QAM	1 / 0	22.87	-0.20	22.67	0.185	33.01	-10.34

Table 7-43. Antenna 4 EIRP Data (Band 2)

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 256 of 389

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1850.70	1.4	QPSK	1 / 5	24.61	-0.20	24.41	0.276	33.01	-8.60
1882.50	1.4	QPSK	1 / 5	24.37	-0.20	24.17	0.261	33.01	-8.84
1914.30	1.4	QPSK	1 / 5	24.44	-0.20	24.24	0.265	33.01	-8.77
1850.70	1.4	16-QAM	1 / 0	24.10	-0.20	23.90	0.245	33.01	-9.11
1850.70	1.4	64-QAM	1 / 5	23.07	-0.20	22.87	0.194	33.01	-10.14
1851.50	3	QPSK	1 / 7	24.55	-0.20	24.35	0.272	33.01	-8.66
1882.50	3	QPSK	1 / 7	24.38	-0.20	24.18	0.262	33.01	-8.83
1913.50	3	QPSK	1 / 14	24.61	-0.20	24.41	0.276	33.01	-8.60
1851.50	3	16-QAM	1 / 0	24.05	-0.20	23.85	0.243	33.01	-9.16
1851.50	3	64-QAM	1 / 7	22.99	-0.20	22.79	0.190	33.01	-10.22
1852.50	5	QPSK	1 / 12	24.67	-0.20	24.47	0.280	33.01	-8.54
1882.50	5	QPSK	1 / 24	24.57	-0.20	24.37	0.274	33.01	-8.64
1912.50	5	QPSK	1 / 12	24.66	-0.20	24.46	0.279	33.01	-8.55
1852.50	5	16-QAM	1 / 24	24.08	-0.20	23.88	0.244	33.01	-9.13
1852.50	5	64-QAM	1 / 12	23.00	-0.20	22.80	0.191	33.01	-10.21
1855.00	10	QPSK	1 / 0	24.73	-0.20	24.53	0.284	33.01	-8.48
1882.50	10	QPSK	1 / 49	24.50	-0.20	24.30	0.269	33.01	-8.71
1910.00	10	QPSK	1 / 0	24.39	-0.20	24.19	0.262	33.01	-8.82
1855.00	10	16-QAM	1 / 0	24.04	-0.20	23.84	0.242	33.01	-9.17
1855.00	10	64-QAM	1 / 0	22.96	-0.20	22.76	0.189	33.01	-10.25
1857.50	15	QPSK	1 / 0	24.75	-0.20	24.55	0.285	33.01	-8.46
1882.50	15	QPSK	1 / 74	24.50	-0.20	24.30	0.269	33.01	-8.71
1907.50	15	QPSK	1 / 0	24.38	-0.20	24.18	0.262	33.01	-8.83
1857.50	15	16-QAM	1 / 0	23.86	-0.20	23.66	0.232	33.01	-9.35
1857.50	15	64-QAM	1 / 0	22.97	-0.20	22.77	0.189	33.01	-10.24
1860.00	20	QPSK	1 / 0	24.75	-0.20	24.55	0.285	33.01	-8.46
1882.50	20	QPSK	1 / 99	24.53	-0.20	24.33	0.271	33.01	-8.68
1905.00	20	QPSK	1 / 0	24.71	-0.20	24.51	0.282	33.01	-8.50
1860.00	20	16-QAM	1 / 0	24.06	-0.20	23.86	0.243	33.01	-9.15
1860.00	20	64-QAM	1 / 0	22.87	-0.20	22.67	0.185	33.01	-10.34

Table 7-44. Antenna 4 EIRP Data (Band 25)

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 257 of 389

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
2307.50	5	QPSK	1 / 12	22.70	0.00	22.70	0.186	23.98	-1.28
2312.50	5	QPSK	1 / 12	22.64	0.00	22.64	0.184	23.98	-1.34
2312.50	5	16-QAM	1 / 12	22.02	0.00	22.02	0.159	23.98	-1.96
2312.50	5	64-QAM	1 / 12	21.14	0.00	21.14	0.130	23.98	-2.84
2310.00	10	QPSK	1 / 25	22.70	0.00	22.70	0.186	23.98	-1.28
2310.00	10	16-QAM	1 / 25	22.17	0.00	22.17	0.165	23.98	-1.81
2310.00	10	64-QAM	1 / 0	20.99	0.00	20.99	0.126	23.98	-2.99

Table 7-45. Antenna 4 EIRP Data (Band 30)

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device
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Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
2502.50	5	QPSK	1 / 12	25.00	0.10	25.10	0.324	33.01	-7.91
2535.00	5	QPSK	1 / 24	24.99	0.10	25.09	0.323	33.01	-7.92
2567.50	5	QPSK	1 / 0	24.57	0.10	24.67	0.293	33.01	-8.34
2502.50	5	16-QAM	1 / 0	24.44	0.10	24.54	0.284	33.01	-8.47
2502.50	5	64-QAM	1 / 12	23.11	0.10	23.21	0.209	33.01	-9.80
2505.00	10	QPSK	1 / 25	25.00	0.10	25.10	0.324	33.01	-7.91
2535.00	10	QPSK	1 / 0	24.92	0.10	25.02	0.318	33.01	-7.99
2565.00	10	QPSK	1 / 0	24.85	0.10	24.95	0.313	33.01	-8.06
2505.00	10	16-QAM	1 / 25	24.28	0.10	24.38	0.274	33.01	-8.63
2505.00	10	64-QAM	1 / 0	23.12	0.10	23.22	0.210	33.01	-9.79
2507.50	15	QPSK	1 / 36	25.00	0.10	25.10	0.324	33.01	-7.91
2535.00	15	QPSK	1 / 36	24.89	0.10	24.99	0.316	33.01	-8.02
2562.50	15	QPSK	1 / 36	24.93	0.10	25.03	0.318	33.01	-7.98
2507.50	15	16-QAM	1 / 0	24.21	0.10	24.31	0.270	33.01	-8.70
2507.50	15	64-QAM	1 / 36	23.14	0.10	23.24	0.211	33.01	-9.77
2510.00	20	QPSK	1 / 0	25.00	0.10	25.10	0.324	33.01	-7.91
2535.00	20	QPSK	1 / 99	24.95	0.10	25.05	0.320	33.01	-7.96
2560.00	20	QPSK	1 / 99	24.90	0.10	25.00	0.316	33.01	-8.01
2510.00	20	16-QAM	1 / 0	24.28	0.10	24.38	0.274	33.01	-8.63
2510.00	20	64-QAM	1 / 0	23.16	0.10	23.26	0.212	33.01	-9.75

Table 7-46. Antenna 4 EIRP Data (Band 7)

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 259 of 389

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
2498.50	5	QPSK	1 / 24	26.50	0.10	26.60	0.457	33.01	-6.41
2593.00	5	QPSK	1 / 0	26.33	0.10	26.43	0.440	33.01	-6.58
2687.50	5	QPSK	1 / 12	26.11	0.10	26.21	0.418	33.01	-6.80
2502.50	5	16-QAM	1 / 0	25.49	0.10	25.59	0.362	33.01	-7.42
2502.50	5	64-QAM	1 / 0	24.60	0.10	24.70	0.295	33.01	-8.31
2501.00	10	QPSK	1 / 25	26.50	0.10	26.60	0.457	33.01	-6.41
2593.00	10	QPSK	1 / 0	26.42	0.10	26.52	0.449	33.01	-6.49
2685.00	10	QPSK	1 / 49	26.31	0.10	26.41	0.438	33.01	-6.60
2593.00	10	16-QAM	1 / 0	25.46	0.10	25.56	0.360	33.01	-7.45
2593.00	10	64-QAM	1 / 0	24.29	0.10	24.39	0.275	33.01	-8.62
2503.50	15	QPSK	1 / 36	26.50	0.10	26.60	0.457	33.01	-6.41
2593.00	15	QPSK	1 / 74	26.48	0.10	26.58	0.455	33.01	-6.43
2682.50	15	QPSK	1 / 74	26.26	0.10	26.36	0.433	33.01	-6.65
2593.00	15	16-QAM	1 / 0	25.35	0.10	25.45	0.351	33.01	-7.56
2593.00	15	64-QAM	1 / 74	24.42	0.10	24.52	0.283	33.01	-8.49
2506.00	20	QPSK	1 / 99	26.48	0.10	26.58	0.455	33.01	-6.43
2593.00	20	QPSK	1 / 0	26.50	0.10	26.60	0.457	33.01	-6.41
2680.00	20	QPSK	1 / 99	26.32	0.10	26.42	0.439	33.01	-6.59
2593.00	20	16-QAM	1 / 0	25.63	0.10	25.73	0.374	33.01	-7.28
2593.00	20	64-QAM	1 / 0	24.50	0.10	24.60	0.288	33.01	-8.41

Table 7-47. Antenna 4 EIRP Data (Band 41 PC2)

FCC ID: BCGA2072	 Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 260 of 389

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
2498.50	5	QPSK	1 / 12	24.00	0.10	24.10	0.257	33.01	-8.91
2593.00	5	QPSK	1 / 0	24.27	0.10	24.37	0.274	33.01	-8.64
2687.50	5	QPSK	1 / 24	24.50	0.10	24.60	0.288	33.01	-8.41
2687.50	5	16-QAM	1 / 0	23.55	0.10	23.65	0.232	33.01	-9.36
2687.50	5	64-QAM	1 / 12	22.53	0.10	22.63	0.183	33.01	-10.38
2501.00	10	QPSK	1 / 25	24.00	0.10	24.10	0.257	33.01	-8.91
2593.00	10	QPSK	1 / 0	24.39	0.10	24.49	0.281	33.01	-8.52
2685.00	10	QPSK	1 / 0	24.47	0.10	24.57	0.286	33.01	-8.44
2685.00	10	16-QAM	1 / 0	23.73	0.10	23.83	0.242	33.01	-9.18
2685.00	10	64-QAM	1 / 0	22.55	0.10	22.65	0.184	33.01	-10.36
2503.50	15	QPSK	1 / 36	23.94	0.10	24.04	0.254	33.01	-8.97
2593.00	15	QPSK	1 / 0	24.46	0.10	24.56	0.286	33.01	-8.45
2682.50	15	QPSK	1 / 74	24.18	0.10	24.28	0.268	33.01	-8.73
2593.00	15	16-QAM	1 / 0	23.50	0.10	23.60	0.229	33.01	-9.41
2593.00	15	64-QAM	1 / 74	22.49	0.10	22.59	0.182	33.01	-10.42
2506.00	20	QPSK	1 / 50	23.99	0.10	24.09	0.256	33.01	-8.92
2593.00	20	QPSK	1 / 0	24.50	0.10	24.60	0.288	33.01	-8.41
2680.00	20	QPSK	1 / 99	24.33	0.10	24.43	0.277	33.01	-8.58
2593.00	20	16-QAM	1 / 0	23.57	0.10	23.67	0.233	33.01	-9.34
2593.00	20	64-QAM	1 / 99	22.40	0.10	22.50	0.178	33.01	-10.51

Table 7-48. Antenna 4 EIRP Data (Band 41 PC3)

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 261 of 389

7.8.2 Antenna 3b - ERP/EIRP

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
699.70	1.4	QPSK	1 / 0	24.71	-3.10	19.46	0.088	34.77	-15.31	21.61	0.145	36.99	-15.38
707.50	1.4	QPSK	1 / 5	24.62	-3.10	19.37	0.086	34.77	-15.40	21.52	0.142	36.99	-15.47
715.30	1.4	QPSK	1 / 5	24.75	-3.10	19.50	0.089	34.77	-15.27	21.65	0.146	36.99	-15.34
715.30	1.4	16-QAM	1 / 2	23.85	-3.10	18.60	0.072	34.77	-16.17	20.75	0.119	36.99	-16.24
715.30	1.4	64-QAM	1 / 0	23.02	-3.10	17.77	0.060	34.77	-17.00	19.92	0.098	36.99	-17.07
700.50	3	QPSK	1 / 0	24.67	-3.10	19.42	0.087	34.77	-15.35	21.57	0.144	36.99	-15.42
707.50	3	QPSK	1 / 7	24.64	-3.10	19.39	0.087	34.77	-15.38	21.54	0.143	36.99	-15.45
714.50	3	QPSK	1 / 7	24.53	-3.10	19.28	0.085	34.77	-15.49	21.43	0.139	36.99	-15.56
700.50	3	16-QAM	1 / 7	24.15	-3.10	18.90	0.078	34.77	-15.87	21.05	0.127	36.99	-15.94
700.50	3	64-QAM	1 / 0	23.04	-3.10	17.79	0.060	34.77	-16.98	19.94	0.099	36.99	-17.05
701.50	5	QPSK	1 / 0	24.75	-3.10	19.50	0.089	34.77	-15.27	21.65	0.146	36.99	-15.34
707.50	5	QPSK	1 / 12	24.64	-3.10	19.39	0.087	34.77	-15.38	21.54	0.143	36.99	-15.45
713.50	5	QPSK	1 / 24	24.54	-3.10	19.29	0.085	34.77	-15.48	21.44	0.139	36.99	-15.55
701.50	5	16-QAM	1 / 24	24.11	-3.10	18.86	0.077	34.77	-15.91	21.01	0.126	36.99	-15.98
701.50	5	64-QAM	1 / 0	22.97	-3.10	17.72	0.059	34.77	-17.05	19.87	0.097	36.99	-17.12
704.00	10	QPSK	1 / 0	24.72	-3.10	19.47	0.089	34.77	-15.30	21.62	0.145	36.99	-15.37
707.50	10	QPSK	1 / 0	24.58	-3.10	19.33	0.086	34.77	-15.44	21.48	0.141	36.99	-15.51
711.00	10	QPSK	1 / 49	24.67	-3.10	19.42	0.087	34.77	-15.35	21.57	0.144	36.99	-15.42
704.00	10	16-QAM	1 / 25	23.95	-3.10	18.70	0.074	34.77	-16.07	20.85	0.122	36.99	-16.14
704.00	10	64-QAM	1 / 0	22.95	-3.10	17.70	0.059	34.77	-17.07	19.85	0.097	36.99	-17.14

Table 7-49. Antenna 3b ERP/EIRP Data (Band 12)

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 262 of 389

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
706.50	5	QPSK	1 / 0	24.63	-3.10	19.38	0.087	34.77	-15.39	21.53	0.142	36.99	-15.46
710.00	5	QPSK	1 / 24	24.75	-3.10	19.50	0.089	34.77	-15.27	21.65	0.146	36.99	-15.34
713.50	5	QPSK	1 / 12	24.68	-3.10	19.43	0.088	34.77	-15.34	21.58	0.144	36.99	-15.41
710.00	5	16-QAM	1 / 24	24.07	-3.10	18.82	0.076	34.77	-15.95	20.97	0.125	36.99	-16.02
710.00	5	64-QAM	1 / 24	22.97	-3.10	17.72	0.059	34.77	-17.05	19.87	0.097	36.99	-17.12
709.00	10	QPSK	1 / 49	24.68	-3.10	19.43	0.088	34.77	-15.34	21.58	0.144	36.99	-15.41
710.00	10	QPSK	1 / 49	24.73	-3.10	19.48	0.089	34.77	-15.29	21.63	0.146	36.99	-15.36
711.00	10	QPSK	1 / 49	24.75	-3.10	19.50	0.089	34.77	-15.27	21.65	0.146	36.99	-15.34
711.00	10	16-QAM	1 / 49	24.29	-3.10	19.04	0.080	34.77	-15.73	21.19	0.132	36.99	-15.80
711.00	10	64-QAM	1 / 0	23.09	-3.10	17.84	0.061	34.77	-16.93	19.99	0.100	36.99	-17.00

Table 7-50. Antenna 3b ERP/EIRP Data (Band 17)

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
779.50	5	QPSK	1 / 12	24.62	-3.10	19.37	0.086	34.77	-15.40	21.52	0.142	36.99	-15.47
782.00	5	QPSK	1 / 0	24.75	-3.10	19.50	0.089	34.77	-15.27	21.65	0.146	36.99	-15.34
784.50	5	QPSK	1 / 12	24.62	-3.10	19.37	0.086	34.77	-15.40	21.52	0.142	36.99	-15.47
782.00	5	16-QAM	1 / 0	24.06	-3.10	18.81	0.076	34.77	-15.96	20.96	0.125	36.99	-16.03
782.00	5	64-QAM	1 / 0	22.93	-3.10	17.68	0.059	34.77	-17.09	19.83	0.096	36.99	-17.16
782.00	10	QPSK	1 / 25	24.75	-3.10	19.50	0.089	34.77	-15.27	21.65	0.146	36.99	-15.34
782.00	10	16-QAM	1 / 25	24.20	-3.10	18.95	0.079	34.77	-15.82	21.10	0.129	36.99	-15.89
782.00	10	64-QAM	1 / 0	23.12	-3.10	17.87	0.061	34.77	-16.90	20.02	0.100	36.99	-16.97

Table 7-51. Antenna 3b ERP/EIRP Data (Band 13)

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
824.70	1.4	QPSK	1 / 0	24.49	-1.60	20.74	0.119	38.45	-17.71	22.89	0.195	40.61	-17.72
836.50	1.4	QPSK	1 / 5	24.74	-1.60	20.99	0.126	38.45	-17.46	23.14	0.206	40.61	-17.47
848.30	1.4	QPSK	1 / 0	24.75	-1.60	21.00	0.126	38.45	-17.45	23.15	0.207	40.61	-17.46
848.30	1.4	16-QAM	1 / 0	23.95	-1.60	20.20	0.105	38.45	-18.25	22.35	0.172	40.61	-18.26
848.30	1.4	64-QAM	1 / 2	23.15	-1.60	19.40	0.087	38.45	-19.05	21.55	0.143	40.61	-19.06
825.50	3	QPSK	1 / 0	24.48	-1.60	20.73	0.118	38.45	-17.72	22.88	0.194	40.61	-17.73
836.50	3	QPSK	1 / 7	24.75	-1.60	21.00	0.126	38.45	-17.45	23.15	0.207	40.61	-17.46
847.50	3	QPSK	1 / 7	24.49	-1.60	20.74	0.119	38.45	-17.71	22.89	0.195	40.61	-17.72
836.50	3	16-QAM	1 / 14	24.22	-1.60	20.47	0.111	38.45	-17.98	22.62	0.183	40.61	-17.99
836.50	3	64-QAM	1 / 0	22.80	-1.60	19.05	0.080	38.45	-19.40	21.20	0.132	40.61	-19.41
826.50	5	QPSK	1 / 24	24.55	-1.60	20.80	0.120	38.45	-17.65	22.95	0.197	40.61	-17.66
836.50	5	QPSK	1 / 24	24.75	-1.60	21.00	0.126	38.45	-17.45	23.15	0.207	40.61	-17.46
846.50	5	QPSK	1 / 0	24.45	-1.60	20.70	0.117	38.45	-17.75	22.85	0.193	40.61	-17.76
836.50	5	16-QAM	1 / 0	24.03	-1.60	20.28	0.107	38.45	-18.17	22.43	0.175	40.61	-18.18
836.50	5	64-QAM	1 / 24	22.98	-1.60	19.23	0.084	38.45	-19.22	21.38	0.137	40.61	-19.23
829.00	10	QPSK	1 / 49	24.75	-1.60	21.00	0.126	38.45	-17.45	23.15	0.207	40.61	-17.46
836.50	10	QPSK	1 / 49	24.71	-1.60	20.96	0.125	38.45	-17.49	23.11	0.205	40.61	-17.50
844.00	10	QPSK	1 / 0	24.69	-1.60	20.94	0.124	38.45	-17.51	23.09	0.204	40.61	-17.52
829.00	10	16-QAM	1 / 25	24.09	-1.60	20.34	0.108	38.45	-18.11	22.49	0.177	40.61	-18.12
829.00	10	64-QAM	1 / 49	22.94	-1.60	19.19	0.083	38.45	-19.26	21.34	0.136	40.61	-19.27

Table 7-52. Antenna 3b ERP/EIRP Data (Band 5)

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 264 of 389

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
824.70	1.4	QPSK	1 / 0	24.52	-1.60	20.77	0.119	38.45	-17.68	22.92	0.196	40.61	-17.69
836.50	1.4	QPSK	1 / 5	24.75	-1.60	21.00	0.126	38.45	-17.45	23.15	0.207	40.61	-17.46
848.30	1.4	QPSK	1 / 0	24.75	-1.60	21.00	0.126	38.45	-17.45	23.15	0.207	40.61	-17.46
836.50	1.4	16-QAM	1 / 2	24.16	-1.60	20.41	0.110	38.45	-18.04	22.56	0.180	40.61	-18.05
836.50	1.4	64-QAM	1 / 5	23.00	-1.60	19.25	0.084	38.45	-19.20	21.40	0.138	40.61	-19.21
825.50	3	QPSK	1 / 0	24.48	-1.60	20.73	0.118	38.45	-17.72	22.88	0.194	40.61	-17.73
836.50	3	QPSK	1 / 7	24.75	-1.60	21.00	0.126	38.45	-17.45	23.15	0.207	40.61	-17.46
847.50	3	QPSK	1 / 7	24.48	-1.60	20.73	0.118	38.45	-17.72	22.88	0.194	40.61	-17.73
836.50	3	16-QAM	1 / 7	24.17	-1.60	20.42	0.110	38.45	-18.03	22.57	0.181	40.61	-18.04
836.50	3	64-QAM	1 / 0	22.87	-1.60	19.12	0.082	38.45	-19.33	21.27	0.134	40.61	-19.34
826.50	5	QPSK	1 / 24	24.54	-1.60	20.79	0.120	38.45	-17.66	22.94	0.197	40.61	-17.67
836.50	5	QPSK	1 / 24	24.75	-1.60	21.00	0.126	38.45	-17.45	23.15	0.207	40.61	-17.46
846.50	5	QPSK	1 / 0	24.49	-1.60	20.74	0.119	38.45	-17.71	22.89	0.195	40.61	-17.72
836.50	5	16-QAM	1 / 24	24.13	-1.60	20.38	0.109	38.45	-18.07	22.53	0.179	40.61	-18.08
836.50	5	64-QAM	1 / 24	22.99	-1.60	19.24	0.084	38.45	-19.21	21.39	0.138	40.61	-19.22
829.00	10	QPSK	1 / 49	24.74	-1.60	20.99	0.126	38.45	-17.46	23.14	0.206	40.61	-17.47
836.50	10	QPSK	1 / 49	24.75	-1.60	21.00	0.126	38.45	-17.45	23.15	0.207	40.61	-17.46
844.00	10	QPSK	1 / 0	24.74	-1.60	20.99	0.126	38.45	-17.46	23.14	0.206	40.61	-17.47
836.50	10	16-QAM	1 / 49	24.24	-1.60	20.49	0.112	38.45	-17.96	22.64	0.184	40.61	-17.97
836.50	10	64-QAM	1 / 49	23.00	-1.60	19.25	0.084	38.45	-19.20	21.40	0.138	40.61	-19.21

Table 7-53. Antenna 3b ERP/EIRP Data (Band 26)

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 265 of 389

7.8.3 Antenna 2a - EIRP

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1710.70	1.4	QPSK	1 / 5	23.87	-2.00	21.87	0.154	30.00	-8.13
1732.50	1.4	QPSK	1 / 0	23.94	-2.00	21.94	0.156	30.00	-8.06
1754.30	1.4	QPSK	1 / 0	24.00	-2.00	22.00	0.158	30.00	-8.00
1754.30	1.4	16-QAM	1 / 2	23.01	-2.00	21.01	0.126	30.00	-8.99
1754.30	1.4	64-QAM	1 / 0	22.18	-2.00	20.18	0.104	30.00	-9.82
1711.50	3	QPSK	1 / 7	23.95	-2.00	21.95	0.157	30.00	-8.05
1732.50	3	QPSK	1 / 7	24.00	-2.00	22.00	0.158	30.00	-8.00
1753.50	3	QPSK	1 / 0	23.91	-2.00	21.91	0.155	30.00	-8.09
1732.50	3	16-QAM	1 / 14	23.37	-2.00	21.37	0.137	30.00	-8.63
1732.50	3	64-QAM	1 / 7	22.14	-2.00	20.14	0.103	30.00	-9.86
1712.50	5	QPSK	1 / 24	23.95	-2.00	21.95	0.157	30.00	-8.05
1732.50	5	QPSK	1 / 24	24.00	-2.00	22.00	0.158	30.00	-8.00
1752.50	5	QPSK	1 / 12	23.79	-2.00	21.79	0.151	30.00	-8.21
1732.50	5	16-QAM	1 / 24	23.30	-2.00	21.30	0.135	30.00	-8.70
1732.50	5	64-QAM	1 / 24	22.25	-2.00	20.25	0.106	30.00	-9.75
1715.00	10	QPSK	1 / 49	23.97	-2.00	21.97	0.157	30.00	-8.03
1732.50	10	QPSK	1 / 49	24.00	-2.00	22.00	0.158	30.00	-8.00
1750.00	10	QPSK	1 / 0	23.91	-2.00	21.91	0.155	30.00	-8.09
1732.50	10	16-QAM	1 / 49	23.43	-2.00	21.43	0.139	30.00	-8.57
1732.50	10	64-QAM	1 / 49	22.28	-2.00	20.28	0.107	30.00	-9.72
1717.50	15	QPSK	1 / 74	24.00	-2.00	22.00	0.158	30.00	-8.00
1732.50	15	QPSK	1 / 0	23.79	-2.00	21.79	0.151	30.00	-8.21
1747.50	15	QPSK	1 / 36	23.70	-2.00	21.70	0.148	30.00	-8.30
1717.50	15	16-QAM	1 / 74	23.14	-2.00	21.14	0.130	30.00	-8.86
1717.50	15	64-QAM	1 / 36	22.30	-2.00	20.30	0.107	30.00	-9.70
1720.00	20	QPSK	1 / 50	23.72	-2.00	21.72	0.149	30.00	-8.28
1732.50	20	QPSK	1 / 0	24.00	-2.00	22.00	0.158	30.00	-8.00
1745.00	20	QPSK	1 / 0	23.90	-2.00	21.90	0.155	30.00	-8.10
1732.50	20	16-QAM	1 / 0	23.39	-2.00	21.39	0.138	30.00	-8.61
1732.50	20	64-QAM	1 / 50	22.29	-2.00	20.29	0.107	30.00	-9.71

Table 7-54. Antenna 2a EIRP Data (Band 4)

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 266 of 389

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1710.70	1.4	QPSK	1 / 5	23.91	-2.00	21.91	0.155	30.00	-8.09
1745.00	1.4	QPSK	1 / 2	24.00	-2.00	22.00	0.158	30.00	-8.00
1779.30	1.4	QPSK	1 / 5	23.94	-2.00	21.94	0.156	30.00	-8.06
1745.00	1.4	16-QAM	1 / 5	23.38	-2.00	21.38	0.137	30.00	-8.62
1745.00	1.4	64-QAM	1 / 5	22.03	-2.00	20.03	0.101	30.00	-9.97
1711.50	3	QPSK	1 / 7	23.94	-2.00	21.94	0.156	30.00	-8.06
1745.00	3	QPSK	1 / 7	24.00	-2.00	22.00	0.158	30.00	-8.00
1778.50	3	QPSK	1 / 7	23.73	-2.00	21.73	0.149	30.00	-8.27
1745.00	3	16-QAM	1 / 0	23.35	-2.00	21.35	0.136	30.00	-8.65
1745.00	3	64-QAM	1 / 14	22.33	-2.00	20.33	0.108	30.00	-9.67
1712.50	5	QPSK	1 / 24	23.95	-2.00	21.95	0.157	30.00	-8.05
1745.00	5	QPSK	1 / 0	24.00	-2.00	22.00	0.158	30.00	-8.00
1777.50	5	QPSK	1 / 24	23.71	-2.00	21.71	0.148	30.00	-8.29
1745.00	5	16-QAM	1 / 12	23.40	-2.00	21.40	0.138	30.00	-8.60
1745.00	5	64-QAM	1 / 24	22.15	-2.00	20.15	0.104	30.00	-9.85
1715.00	10	QPSK	1 / 25	24.00	-2.00	22.00	0.158	30.00	-8.00
1745.00	10	QPSK	1 / 25	23.95	-2.00	21.95	0.157	30.00	-8.05
1775.00	10	QPSK	1 / 49	23.84	-2.00	21.84	0.153	30.00	-8.16
1715.00	10	16-QAM	1 / 0	23.27	-2.00	21.27	0.134	30.00	-8.73
1715.00	10	64-QAM	1 / 25	22.31	-2.00	20.31	0.107	30.00	-9.69
1717.50	15	QPSK	1 / 74	24.00	-2.00	22.00	0.158	30.00	-8.00
1745.00	15	QPSK	1 / 36	23.79	-2.00	21.79	0.151	30.00	-8.21
1772.50	15	QPSK	1 / 74	23.64	-2.00	21.64	0.146	30.00	-8.36
1717.50	15	16-QAM	1 / 74	23.15	-2.00	21.15	0.130	30.00	-8.85
1717.50	15	64-QAM	1 / 74	22.30	-2.00	20.30	0.107	30.00	-9.70
1720.00	20	QPSK	1 / 99	24.00	-2.00	22.00	0.158	30.00	-8.00
1745.00	20	QPSK	1 / 0	23.80	-2.00	21.80	0.151	30.00	-8.20
1770.00	20	QPSK	1 / 99	23.84	-2.00	21.84	0.153	30.00	-8.16
1720.00	20	16-QAM	1 / 50	23.24	-2.00	21.24	0.133	30.00	-8.76
1720.00	20	64-QAM	1 / 50	22.07	-2.00	20.07	0.102	30.00	-9.93

Table 7-55. Antenna 2a EIRP Data (Band 66)

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 267 of 389

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1850.70	1.4	QPSK	1 / 0	23.91	-1.20	22.71	0.187	33.01	-10.30
1880.00	1.4	QPSK	1 / 5	23.92	-1.20	22.72	0.187	33.01	-10.29
1909.30	1.4	QPSK	1 / 2	24.00	-1.20	22.80	0.191	33.01	-10.21
1909.30	1.4	16-QAM	1 / 5	23.21	-1.20	22.01	0.159	33.01	-11.00
1909.30	1.4	64-QAM	1 / 5	22.42	-1.20	21.22	0.132	33.01	-11.79
1851.50	3	QPSK	1 / 0	23.87	-1.20	22.67	0.185	33.01	-10.34
1880.00	3	QPSK	1 / 7	23.95	-1.20	22.75	0.188	33.01	-10.26
1908.50	3	QPSK	1 / 7	23.79	-1.20	22.59	0.182	33.01	-10.42
1880.00	3	16-QAM	1 / 14	23.31	-1.20	22.11	0.163	33.01	-10.90
1880.00	3	64-QAM	1 / 0	22.22	-1.20	21.02	0.126	33.01	-11.99
1852.50	5	QPSK	1 / 12	24.00	-1.20	22.80	0.191	33.01	-10.21
1880.00	5	QPSK	1 / 24	24.00	-1.20	22.80	0.191	33.01	-10.21
1907.50	5	QPSK	1 / 0	23.90	-1.20	22.70	0.186	33.01	-10.31
1852.50	5	16-QAM	1 / 12	23.39	-1.20	22.19	0.166	33.01	-10.82
1852.50	5	64-QAM	1 / 0	22.23	-1.20	21.03	0.127	33.01	-11.98
1855.00	10	QPSK	1 / 0	23.94	-1.20	22.74	0.188	33.01	-10.27
1880.00	10	QPSK	1 / 49	23.96	-1.20	22.76	0.189	33.01	-10.25
1905.00	10	QPSK	1 / 0	24.00	-1.20	22.80	0.191	33.01	-10.21
1905.00	10	16-QAM	1 / 0	23.62	-1.20	22.42	0.175	33.01	-10.59
1905.00	10	64-QAM	1 / 25	22.27	-1.20	21.07	0.128	33.01	-11.94
1857.50	15	QPSK	1 / 0	24.00	-1.20	22.80	0.191	33.01	-10.21
1880.00	15	QPSK	1 / 74	23.99	-1.20	22.79	0.190	33.01	-10.22
1902.50	15	QPSK	1 / 0	23.94	-1.20	22.74	0.188	33.01	-10.27
1857.50	15	16-QAM	1 / 0	23.26	-1.20	22.06	0.161	33.01	-10.95
1857.50	15	64-QAM	1 / 0	22.34	-1.20	21.14	0.130	33.01	-11.87
1860.00	20	QPSK	1 / 0	23.93	-1.20	22.73	0.187	33.01	-10.28
1880.00	20	QPSK	1 / 99	23.96	-1.20	22.76	0.189	33.01	-10.25
1900.00	20	QPSK	1 / 50	24.00	-1.20	22.80	0.191	33.01	-10.21
1900.00	20	16-QAM	1 / 50	23.50	-1.20	22.30	0.170	33.01	-10.71
1900.00	20	64-QAM	1 / 50	22.41	-1.20	21.21	0.132	33.01	-11.80

Table 7-56. Antenna 2a EIRP Data (Band 2)

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 268 of 389

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1850.70	1.4	QPSK	1 / 2	23.87	-1.20	22.67	0.185	33.01	-10.34
1882.50	1.4	QPSK	1 / 0	23.96	-1.20	22.76	0.189	33.01	-10.25
1914.30	1.4	QPSK	1 / 5	24.00	-1.20	22.80	0.191	33.01	-10.21
1914.30	1.4	16-QAM	1 / 2	23.03	-1.20	21.83	0.152	33.01	-11.18
1914.30	1.4	64-QAM	1 / 5	22.35	-1.20	21.15	0.130	33.01	-11.86
1851.50	3	QPSK	1 / 7	23.85	-1.20	22.65	0.184	33.01	-10.36
1882.50	3	QPSK	1 / 7	23.92	-1.20	22.72	0.187	33.01	-10.29
1913.50	3	QPSK	1 / 14	24.00	-1.20	22.80	0.191	33.01	-10.21
1913.50	3	16-QAM	1 / 7	23.49	-1.20	22.29	0.169	33.01	-10.72
1913.50	3	64-QAM	1 / 7	22.36	-1.20	21.16	0.131	33.01	-11.85
1852.50	5	QPSK	1 / 12	23.99	-1.20	22.79	0.190	33.01	-10.22
1882.50	5	QPSK	1 / 0	23.88	-1.20	22.68	0.185	33.01	-10.33
1912.50	5	QPSK	1 / 24	24.00	-1.20	22.80	0.191	33.01	-10.21
1912.50	5	16-QAM	1 / 24	23.38	-1.20	22.18	0.165	33.01	-10.83
1912.50	5	64-QAM	1 / 0	22.48	-1.20	21.28	0.134	33.01	-11.73
1855.00	10	QPSK	1 / 49	23.89	-1.20	22.69	0.186	33.01	-10.32
1882.50	10	QPSK	1 / 25	23.93	-1.20	22.73	0.187	33.01	-10.28
1910.00	10	QPSK	1 / 49	24.00	-1.20	22.80	0.191	33.01	-10.21
1910.00	10	16-QAM	1 / 0	23.47	-1.20	22.27	0.169	33.01	-10.74
1910.00	10	64-QAM	1 / 0	22.30	-1.20	21.10	0.129	33.01	-11.91
1857.50	15	QPSK	1 / 0	23.95	-1.20	22.75	0.188	33.01	-10.26
1882.50	15	QPSK	1 / 74	23.99	-1.20	22.79	0.190	33.01	-10.22
1907.50	15	QPSK	1 / 74	24.00	-1.20	22.80	0.191	33.01	-10.21
1907.50	15	16-QAM	1 / 0	23.56	-1.20	22.36	0.172	33.01	-10.65
1907.50	15	64-QAM	1 / 74	22.29	-1.20	21.09	0.129	33.01	-11.92
1860.00	20	QPSK	1 / 50	23.88	-1.20	22.68	0.185	33.01	-10.33
1882.50	20	QPSK	1 / 99	23.98	-1.20	22.78	0.190	33.01	-10.23
1905.00	20	QPSK	1 / 99	24.00	-1.20	22.80	0.191	33.01	-10.21
1905.00	20	16-QAM	1 / 99	23.37	-1.20	22.17	0.165	33.01	-10.84
1905.00	20	64-QAM	1 / 99	22.25	-1.20	21.05	0.127	33.01	-11.96

Table 7-57. Antenna 2a EIRP Data (Band 25)

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 269 of 389

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
2307.50	5	QPSK	1 / 24	23.10	-0.70	22.40	0.174	23.98	-1.58
2312.50	5	QPSK	1 / 0	23.04	-0.70	22.34	0.171	23.98	-1.64
2312.50	5	16-QAM	1 / 0	22.46	-0.70	21.76	0.150	23.98	-2.22
2312.50	5	64-QAM	1 / 0	21.38	-0.70	20.68	0.117	23.98	-3.30
2310.00	10	QPSK	1 / 25	23.10	-0.70	22.40	0.174	23.98	-1.58
2310.00	10	16-QAM	1 / 0	22.53	-0.70	21.83	0.152	23.98	-2.15
2310.00	10	64-QAM	1 / 25	21.46	-0.70	20.76	0.119	23.98	-3.22

Table 7-58. Antenna 2a EIRP Data (Band 30)

FCC ID: BCGA2072	 PCTEST Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 270 of 389

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
2502.50	5	QPSK	1 / 0	23.58	0.90	24.48	0.281	33.01	-8.53
2535.00	5	QPSK	1 / 0	23.68	0.90	24.58	0.287	33.01	-8.43
2567.50	5	QPSK	1 / 24	23.75	0.90	24.65	0.292	33.01	-8.36
2567.50	5	16-QAM	1 / 24	23.18	0.90	24.08	0.256	33.01	-8.93
2567.50	5	64-QAM	1 / 12	22.27	0.90	23.17	0.207	33.01	-9.84
2505.00	10	QPSK	1 / 49	23.62	0.90	24.52	0.283	33.01	-8.49
2535.00	10	QPSK	1 / 0	23.59	0.90	24.49	0.281	33.01	-8.52
2565.00	10	QPSK	1 / 49	23.75	0.90	24.65	0.292	33.01	-8.36
2565.00	10	16-QAM	1 / 49	23.22	0.90	24.12	0.258	33.01	-8.89
2565.00	10	64-QAM	1 / 25	22.02	0.90	22.92	0.196	33.01	-10.09
2507.50	15	QPSK	1 / 74	23.73	0.90	24.63	0.290	33.01	-8.38
2535.00	15	QPSK	1 / 36	23.60	0.90	24.50	0.282	33.01	-8.51
2562.50	15	QPSK	1 / 74	23.75	0.90	24.65	0.292	33.01	-8.36
2562.50	15	16-QAM	1 / 74	23.26	0.90	24.16	0.261	33.01	-8.85
2562.50	15	64-QAM	1 / 0	22.11	0.90	23.01	0.200	33.01	-10.00
2510.00	20	QPSK	1 / 50	23.63	0.90	24.53	0.284	33.01	-8.48
2535.00	20	QPSK	1 / 0	23.60	0.90	24.50	0.282	33.01	-8.51
2560.00	20	QPSK	1 / 99	23.75	0.90	24.65	0.292	33.01	-8.36
2560.00	20	16-QAM	1 / 99	23.15	0.90	24.05	0.254	33.01	-8.96
2560.00	20	64-QAM	1 / 99	22.08	0.90	22.98	0.199	33.01	-10.03

Table 7-59. Antenna 2a EIRP Data (Band 7)

FCC ID: BCGA2072	 Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 271 of 389

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
2498.50	5	QPSK	1 / 12	26.25	0.90	27.15	0.519	33.01	-5.86
2593.00	5	QPSK	1 / 24	27.25	0.90	28.15	0.653	33.01	-4.86
2687.50	5	QPSK	1 / 0	27.17	0.90	28.07	0.641	33.01	-4.94
2593.00	5	16-QAM	1 / 12	26.53	0.90	27.43	0.553	33.01	-5.58
2593.00	5	64-QAM	1 / 12	25.34	0.90	26.24	0.421	33.01	-6.77
2501.00	10	QPSK	1 / 49	26.25	0.90	27.15	0.519	33.01	-5.86
2593.00	10	QPSK	1 / 25	27.25	0.90	28.15	0.653	33.01	-4.86
2685.00	10	QPSK	1 / 49	27.20	0.90	28.10	0.646	33.01	-4.91
2593.00	10	16-QAM	1 / 49	26.46	0.90	27.36	0.545	33.01	-5.65
2593.00	10	64-QAM	1 / 49	25.38	0.90	26.28	0.425	33.01	-6.73
2503.50	15	QPSK	1 / 74	26.25	0.90	27.15	0.519	33.01	-5.86
2593.00	15	QPSK	1 / 74	27.24	0.90	28.14	0.652	33.01	-4.87
2682.50	15	QPSK	1 / 36	27.24	0.90	28.14	0.652	33.01	-4.87
2593.00	15	16-QAM	1 / 0	26.54	0.90	27.44	0.555	33.01	-5.57
2593.00	15	64-QAM	1 / 0	25.41	0.90	26.31	0.428	33.01	-6.70
2506.00	20	QPSK	1 / 99	26.25	0.90	27.15	0.519	33.01	-5.86
2593.00	20	QPSK	1 / 0	27.11	0.90	28.01	0.632	33.01	-5.00
2680.00	20	QPSK	1 / 99	27.13	0.90	28.03	0.635	33.01	-4.98
2680.00	20	16-QAM	1 / 0	26.32	0.90	27.22	0.527	33.01	-5.79
2680.00	20	64-QAM	1 / 0	25.11	0.90	26.01	0.399	33.01	-7.00

Table 7-60. Antenna 2a EIRP Data (Band 41 PC2)

FCC ID: BCGA2072	 PCTEST Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 272 of 389

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
2498.50	5	QPSK	1 / 12	24.00	0.90	24.90	0.309	33.01	-8.11
2593.00	5	QPSK	1 / 0	24.00	0.90	24.90	0.309	33.01	-8.11
2687.50	5	QPSK	1 / 0	23.95	0.90	24.85	0.305	33.01	-8.16
2593.00	5	16-QAM	1 / 0	23.37	0.90	24.27	0.267	33.01	-8.74
2593.00	5	64-QAM	1 / 12	21.97	0.90	22.87	0.194	33.01	-10.14
2501.00	10	QPSK	1 / 49	24.00	0.90	24.90	0.309	33.01	-8.11
2593.00	10	QPSK	1 / 25	24.00	0.90	24.90	0.309	33.01	-8.11
2685.00	10	QPSK	1 / 0	24.00	0.90	24.90	0.309	33.01	-8.11
2593.00	10	16-QAM	1 / 25	23.15	0.90	24.05	0.254	33.01	-8.96
2593.00	10	64-QAM	1 / 25	22.06	0.90	22.96	0.198	33.01	-10.05
2503.50	15	QPSK	1 / 74	24.00	0.90	24.90	0.309	33.01	-8.11
2593.00	15	QPSK	1 / 0	23.86	0.90	24.76	0.299	33.01	-8.25
2682.50	15	QPSK	1 / 0	23.98	0.90	24.88	0.308	33.01	-8.13
2682.50	15	16-QAM	1 / 0	23.30	0.90	24.20	0.263	33.01	-8.81
2682.50	15	64-QAM	1 / 74	22.43	0.90	23.33	0.215	33.01	-9.68
2506.00	20	QPSK	1 / 99	24.00	0.90	24.90	0.309	33.01	-8.11
2593.00	20	QPSK	1 / 50	23.99	0.90	24.89	0.308	33.01	-8.12
2680.00	20	QPSK	1 / 99	24.00	0.90	24.90	0.309	33.01	-8.11
2680.00	20	16-QAM	1 / 50	23.54	0.90	24.44	0.278	33.01	-8.57
2680.00	20	64-QAM	1 / 99	22.54	0.90	23.44	0.221	33.01	-9.57

Table 7-61. Antenna 2a EIRP Data (Band 41 PC3)

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 273 of 389

7.8.4 Antenna 1a - EIRP

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1710.70	1.4	QPSK	1 / 5	24.50	0.50	25.00	0.316	30.00	-5.00
1732.50	1.4	QPSK	1 / 5	24.50	0.50	25.00	0.316	30.00	-5.00
1754.30	1.4	QPSK	1 / 2	24.50	0.50	25.00	0.316	30.00	-5.00
1710.70	1.4	16-QAM	1 / 2	23.83	0.50	24.33	0.271	30.00	-5.67
1710.70	1.4	64-QAM	1 / 5	22.91	0.50	23.41	0.219	30.00	-6.59
1711.50	3	QPSK	1 / 7	24.49	0.50	24.99	0.316	30.00	-5.01
1732.50	3	QPSK	1 / 7	24.50	0.50	25.00	0.316	30.00	-5.00
1753.50	3	QPSK	1 / 7	24.29	0.50	24.79	0.301	30.00	-5.21
1732.50	3	16-QAM	1 / 14	23.87	0.50	24.37	0.274	30.00	-5.63
1732.50	3	64-QAM	1 / 14	22.58	0.50	23.08	0.203	30.00	-6.92
1712.50	5	QPSK	1 / 24	24.39	0.50	24.89	0.308	30.00	-5.11
1732.50	5	QPSK	1 / 0	24.50	0.50	25.00	0.316	30.00	-5.00
1752.50	5	QPSK	1 / 0	24.45	0.50	24.95	0.313	30.00	-5.05
1732.50	5	16-QAM	1 / 0	23.87	0.50	24.37	0.274	30.00	-5.63
1732.50	5	64-QAM	1 / 24	22.79	0.50	23.29	0.213	30.00	-6.71
1715.00	10	QPSK	1 / 49	24.49	0.50	24.99	0.316	30.00	-5.01
1732.50	10	QPSK	1 / 0	24.50	0.50	25.00	0.316	30.00	-5.00
1750.00	10	QPSK	1 / 49	24.47	0.50	24.97	0.314	30.00	-5.03
1732.50	10	16-QAM	1 / 0	23.98	0.50	24.48	0.281	30.00	-5.52
1732.50	10	64-QAM	1 / 0	22.72	0.50	23.22	0.210	30.00	-6.78
1717.50	15	QPSK	1 / 74	24.50	0.50	25.00	0.316	30.00	-5.00
1732.50	15	QPSK	1 / 0	24.32	0.50	24.82	0.303	30.00	-5.18
1747.50	15	QPSK	1 / 74	24.48	0.50	24.98	0.315	30.00	-5.02
1717.50	15	16-QAM	1 / 74	23.56	0.50	24.06	0.255	30.00	-5.94
1717.50	15	64-QAM	1 / 74	22.65	0.50	23.15	0.207	30.00	-6.85
1720.00	20	QPSK	1 / 99	24.50	0.50	25.00	0.316	30.00	-5.00
1732.50	20	QPSK	1 / 0	24.49	0.50	24.99	0.316	30.00	-5.01
1745.00	20	QPSK	1 / 50	24.45	0.50	24.95	0.313	30.00	-5.05
1720.00	20	16-QAM	1 / 50	23.84	0.50	24.34	0.272	30.00	-5.66
1720.00	20	64-QAM	1 / 0	22.70	0.50	23.20	0.209	30.00	-6.80

Table 7-62. Antenna 1a EIRP Data (Band 4)

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 274 of 389

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1710.70	1.4	QPSK	1 / 5	24.48	0.50	24.98	0.315	30.00	-5.02
1745.00	1.4	QPSK	1 / 5	24.39	0.50	24.89	0.308	30.00	-5.11
1779.30	1.4	QPSK	1 / 0	24.50	0.50	25.00	0.316	30.00	-5.00
1779.30	1.4	16-QAM	1 / 0	23.55	0.50	24.05	0.254	30.00	-5.95
1779.30	1.4	64-QAM	1 / 5	22.76	0.50	23.26	0.212	30.00	-6.74
1711.50	3	QPSK	1 / 7	24.49	0.50	24.99	0.316	30.00	-5.01
1745.00	3	QPSK	1 / 7	24.50	0.50	25.00	0.316	30.00	-5.00
1778.50	3	QPSK	1 / 14	24.46	0.50	24.96	0.313	30.00	-5.04
1745.00	3	16-QAM	1 / 7	23.87	0.50	24.37	0.274	30.00	-5.63
1745.00	3	64-QAM	1 / 14	22.72	0.50	23.22	0.210	30.00	-6.78
1712.50	5	QPSK	1 / 24	24.41	0.50	24.91	0.310	30.00	-5.09
1745.00	5	QPSK	1 / 24	24.50	0.50	25.00	0.316	30.00	-5.00
1777.50	5	QPSK	1 / 12	24.50	0.50	25.00	0.316	30.00	-5.00
1745.00	5	16-QAM	1 / 24	23.88	0.50	24.38	0.274	30.00	-5.62
1745.00	5	64-QAM	1 / 24	22.78	0.50	23.28	0.213	30.00	-6.72
1715.00	10	QPSK	1 / 0	24.47	0.50	24.97	0.314	30.00	-5.03
1745.00	10	QPSK	1 / 0	24.50	0.50	25.00	0.316	30.00	-5.00
1775.00	10	QPSK	1 / 0	24.49	0.50	24.99	0.316	30.00	-5.01
1745.00	10	16-QAM	1 / 0	23.99	0.50	24.49	0.281	30.00	-5.51
1745.00	10	64-QAM	1 / 49	22.80	0.50	23.30	0.214	30.00	-6.70
1717.50	15	QPSK	1 / 74	24.50	0.50	25.00	0.316	30.00	-5.00
1745.00	15	QPSK	1 / 74	24.50	0.50	25.00	0.316	30.00	-5.00
1772.50	15	QPSK	1 / 36	24.49	0.50	24.99	0.316	30.00	-5.01
1717.50	15	16-QAM	1 / 74	23.63	0.50	24.13	0.259	30.00	-5.87
1717.50	15	64-QAM	1 / 0	22.73	0.50	23.23	0.210	30.00	-6.77
1720.00	20	QPSK	1 / 99	24.50	0.50	25.00	0.316	30.00	-5.00
1745.00	20	QPSK	1 / 50	24.45	0.50	24.95	0.313	30.00	-5.05
1770.00	20	QPSK	1 / 99	24.50	0.50	25.00	0.316	30.00	-5.00
1720.00	20	16-QAM	1 / 99	23.77	0.50	24.27	0.267	30.00	-5.73
1720.00	20	64-QAM	1 / 0	22.47	0.50	22.97	0.198	30.00	-7.03

Table 7-63. Antenna 1a EIRP Data (Band 66)

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 275 of 389

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1850.70	1.4	QPSK	1 / 0	24.42	0.80	25.22	0.333	33.01	-7.79
1880.00	1.4	QPSK	1 / 5	24.50	0.80	25.30	0.339	33.01	-7.71
1909.30	1.4	QPSK	1 / 5	24.44	0.80	25.24	0.334	33.01	-7.77
1880.00	1.4	16-QAM	1 / 2	23.90	0.80	24.70	0.295	33.01	-8.31
1880.00	1.4	64-QAM	1 / 5	22.81	0.80	23.61	0.230	33.01	-9.40
1851.50	3	QPSK	1 / 7	24.40	0.80	25.20	0.331	33.01	-7.81
1880.00	3	QPSK	1 / 7	24.50	0.80	25.30	0.339	33.01	-7.71
1908.50	3	QPSK	1 / 7	24.15	0.80	24.95	0.313	33.01	-8.06
1880.00	3	16-QAM	1 / 14	23.87	0.80	24.67	0.293	33.01	-8.34
1880.00	3	64-QAM	1 / 0	22.76	0.80	23.56	0.227	33.01	-9.45
1852.50	5	QPSK	1 / 0	24.36	0.80	25.16	0.328	33.01	-7.85
1880.00	5	QPSK	1 / 24	24.50	0.80	25.30	0.339	33.01	-7.71
1907.50	5	QPSK	1 / 0	24.40	0.80	25.20	0.331	33.01	-7.81
1880.00	5	16-QAM	1 / 24	23.80	0.80	24.60	0.288	33.01	-8.41
1880.00	5	64-QAM	1 / 0	22.73	0.80	23.53	0.225	33.01	-9.48
1855.00	10	QPSK	1 / 0	24.50	0.80	25.30	0.339	33.01	-7.71
1880.00	10	QPSK	1 / 25	24.49	0.80	25.29	0.338	33.01	-7.72
1905.00	10	QPSK	1 / 25	24.47	0.80	25.27	0.337	33.01	-7.74
1855.00	10	16-QAM	1 / 25	23.75	0.80	24.55	0.285	33.01	-8.46
1855.00	10	64-QAM	1 / 0	22.78	0.80	23.58	0.228	33.01	-9.43
1857.50	15	QPSK	1 / 0	24.50	0.80	25.30	0.339	33.01	-7.71
1880.00	15	QPSK	1 / 74	24.36	0.80	25.16	0.328	33.01	-7.85
1902.50	15	QPSK	1 / 0	24.35	0.80	25.15	0.327	33.01	-7.86
1857.50	15	16-QAM	1 / 0	23.63	0.80	24.43	0.277	33.01	-8.58
1857.50	15	64-QAM	1 / 74	22.70	0.80	23.50	0.224	33.01	-9.51
1860.00	20	QPSK	1 / 0	24.45	0.80	25.25	0.335	33.01	-7.76
1880.00	20	QPSK	1 / 99	24.50	0.80	25.30	0.339	33.01	-7.71
1900.00	20	QPSK	1 / 0	24.29	0.80	25.09	0.323	33.01	-7.92
1880.00	20	16-QAM	1 / 99	23.69	0.80	24.49	0.281	33.01	-8.52
1880.00	20	64-QAM	1 / 50	22.61	0.80	23.41	0.219	33.01	-9.60

Table 7-64. Antenna 1a EIRP Data (Band 2)

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 276 of 389

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1850.70	1.4	QPSK	1 / 0	24.41	0.80	25.21	0.332	33.01	-7.80
1882.50	1.4	QPSK	1 / 5	24.50	0.80	25.30	0.339	33.01	-7.71
1914.30	1.4	QPSK	1 / 0	24.50	0.80	25.30	0.339	33.01	-7.71
1882.50	1.4	16-QAM	1 / 2	23.86	0.80	24.66	0.292	33.01	-8.35
1882.50	1.4	64-QAM	1 / 2	23.02	0.80	23.82	0.241	33.01	-9.19
1851.50	3	QPSK	1 / 0	24.41	0.80	25.21	0.332	33.01	-7.80
1882.50	3	QPSK	1 / 7	24.50	0.80	25.30	0.339	33.01	-7.71
1913.50	3	QPSK	1 / 7	24.27	0.80	25.07	0.321	33.01	-7.94
1882.50	3	16-QAM	1 / 7	23.88	0.80	24.68	0.294	33.01	-8.33
1882.50	3	64-QAM	1 / 14	22.66	0.80	23.46	0.222	33.01	-9.55
1852.50	5	QPSK	1 / 12	24.42	0.80	25.22	0.333	33.01	-7.79
1882.50	5	QPSK	1 / 0	24.50	0.80	25.30	0.339	33.01	-7.71
1912.50	5	QPSK	1 / 24	24.37	0.80	25.17	0.329	33.01	-7.84
1882.50	5	16-QAM	1 / 12	23.80	0.80	24.60	0.288	33.01	-8.41
1882.50	5	64-QAM	1 / 24	22.80	0.80	23.60	0.229	33.01	-9.41
1855.00	10	QPSK	1 / 0	24.50	0.80	25.30	0.339	33.01	-7.71
1882.50	10	QPSK	1 / 49	24.50	0.80	25.30	0.339	33.01	-7.71
1910.00	10	QPSK	1 / 49	24.49	0.80	25.29	0.338	33.01	-7.72
1855.00	10	16-QAM	1 / 0	23.86	0.80	24.66	0.292	33.01	-8.35
1855.00	10	64-QAM	1 / 0	22.79	0.80	23.59	0.229	33.01	-9.42
1857.50	15	QPSK	1 / 0	24.50	0.80	25.30	0.339	33.01	-7.71
1882.50	15	QPSK	1 / 74	24.43	0.80	25.23	0.333	33.01	-7.78
1907.50	15	QPSK	1 / 74	24.39	0.80	25.19	0.330	33.01	-7.82
1857.50	15	16-QAM	1 / 0	23.74	0.80	24.54	0.284	33.01	-8.47
1857.50	15	64-QAM	1 / 0	22.79	0.80	23.59	0.229	33.01	-9.42
1860.00	20	QPSK	1 / 0	24.41	0.80	25.21	0.332	33.01	-7.80
1882.50	20	QPSK	1 / 0	24.50	0.80	25.30	0.339	33.01	-7.71
1905.00	20	QPSK	1 / 0	24.50	0.80	25.30	0.339	33.01	-7.71
1882.50	20	16-QAM	1 / 0	23.96	0.80	24.76	0.299	33.01	-8.25
1882.50	20	64-QAM	1 / 0	23.18	0.80	23.98	0.250	33.01	-9.03

Table 7-65. Antenna 1a EIRP Data (Band 25)

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 277 of 389

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
2307.50	5	QPSK	1 / 0	22.50	0.50	23.00	0.200	23.98	-0.98
2312.50	5	QPSK	1 / 0	22.41	0.50	22.91	0.195	23.98	-1.07
2312.50	5	16-QAM	1 / 0	21.88	0.50	22.38	0.173	23.98	-1.60
2312.50	5	64-QAM	1 / 12	21.01	0.50	21.51	0.142	23.98	-2.47
2310.00	10	QPSK	1 / 0	22.50	0.50	23.00	0.200	23.98	-0.98
2310.00	10	16-QAM	1 / 0	22.01	0.50	22.51	0.178	23.98	-1.47
2310.00	10	64-QAM	1 / 0	20.96	0.50	21.46	0.140	23.98	-2.52

Table 7-66. Antenna 1a EIRP Data (Band 30)

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 278 of 389

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
2502.50	5	QPSK	1 / 24	24.25	1.00	25.25	0.335	33.01	-7.76
2535.00	5	QPSK	1 / 0	24.17	1.00	25.17	0.329	33.01	-7.84
2567.50	5	QPSK	1 / 24	23.95	1.00	24.95	0.313	33.01	-8.06
2502.50	5	16-QAM	1 / 12	23.50	1.00	24.50	0.282	33.01	-8.51
2502.50	5	64-QAM	1 / 24	22.46	1.00	23.46	0.222	33.01	-9.55
2505.00	10	QPSK	1 / 49	24.25	1.00	25.25	0.335	33.01	-7.76
2535.00	10	QPSK	1 / 0	23.97	1.00	24.97	0.314	33.01	-8.04
2565.00	10	QPSK	1 / 25	24.08	1.00	25.08	0.322	33.01	-7.93
2505.00	10	16-QAM	1 / 49	23.59	1.00	24.59	0.288	33.01	-8.42
2505.00	10	64-QAM	1 / 49	22.42	1.00	23.42	0.220	33.01	-9.59
2507.50	15	QPSK	1 / 36	24.25	1.00	25.25	0.335	33.01	-7.76
2535.00	15	QPSK	1 / 36	23.90	1.00	24.90	0.309	33.01	-8.11
2562.50	15	QPSK	1 / 74	24.00	1.00	25.00	0.316	33.01	-8.01
2507.50	15	16-QAM	1 / 74	23.25	1.00	24.25	0.266	33.01	-8.76
2507.50	15	64-QAM	1 / 36	22.41	1.00	23.41	0.219	33.01	-9.60
2510.00	20	QPSK	1 / 99	24.20	1.00	25.20	0.331	33.01	-7.81
2535.00	20	QPSK	1 / 0	23.81	1.00	24.81	0.303	33.01	-8.20
2560.00	20	QPSK	1 / 99	24.25	1.00	25.25	0.335	33.01	-7.76
2560.00	20	16-QAM	1 / 50	23.49	1.00	24.49	0.281	33.01	-8.52
2560.00	20	64-QAM	1 / 50	22.45	1.00	23.45	0.221	33.01	-9.56

Table 7-67. Antenna 1a EIRP Data (Band 7)

FCC ID: BCGA2072	 Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 279 of 389

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
2498.50	5	QPSK	1 / 24	25.73	1.00	26.73	0.471	33.01	-6.28
2593.00	5	QPSK	1 / 0	26.88	1.00	27.88	0.614	33.01	-5.13
2687.50	5	QPSK	1 / 0	27.00	1.00	28.00	0.631	33.01	-5.01
2687.50	5	16-QAM	1 / 0	26.51	1.00	27.51	0.564	33.01	-5.50
2687.50	5	64-QAM	1 / 0	25.60	1.00	26.60	0.457	33.01	-6.41
2501.00	10	QPSK	1 / 49	25.75	1.00	26.75	0.473	33.01	-6.26
2593.00	10	QPSK	1 / 49	26.72	1.00	27.72	0.592	33.01	-5.29
2685.00	10	QPSK	1 / 0	27.00	1.00	28.00	0.631	33.01	-5.01
2685.00	10	16-QAM	1 / 0	26.41	1.00	27.41	0.551	33.01	-5.60
2685.00	10	64-QAM	1 / 0	25.58	1.00	26.58	0.455	33.01	-6.43
2503.50	15	QPSK	1 / 74	25.71	1.00	26.71	0.469	33.01	-6.30
2593.00	15	QPSK	1 / 74	26.86	1.00	27.86	0.611	33.01	-5.15
2682.50	15	QPSK	1 / 0	27.00	1.00	28.00	0.631	33.01	-5.01
2682.50	15	16-QAM	1 / 0	26.55	1.00	27.55	0.569	33.01	-5.46
2682.50	15	64-QAM	1 / 36	25.47	1.00	26.47	0.444	33.01	-6.54
2506.00	20	QPSK	1 / 99	25.64	1.00	26.64	0.461	33.01	-6.37
2593.00	20	QPSK	1 / 99	26.60	1.00	27.60	0.575	33.01	-5.41
2680.00	20	QPSK	1 / 0	27.00	1.00	28.00	0.631	33.01	-5.01
2680.00	20	16-QAM	1 / 99	26.32	1.00	27.32	0.540	33.01	-5.69
2680.00	20	64-QAM	1 / 0	25.42	1.00	26.42	0.439	33.01	-6.59

Table 7-68. Antenna 1a EIRP Data (Band 41 PC2)

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 280 of 389

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
2498.50	5	QPSK	1 / 24	23.33	1.00	24.33	0.271	33.01	-8.68
2593.00	5	QPSK	1 / 0	24.18	1.00	25.18	0.330	33.01	-7.83
2687.50	5	QPSK	1 / 0	24.25	1.00	25.25	0.335	33.01	-7.76
2687.50	5	16-QAM	1 / 0	23.33	1.00	24.33	0.271	33.01	-8.68
2687.50	5	64-QAM	1 / 12	22.34	1.00	23.34	0.216	33.01	-9.67
2501.00	10	QPSK	1 / 25	23.50	1.00	24.50	0.282	33.01	-8.51
2593.00	10	QPSK	1 / 49	24.12	1.00	25.12	0.325	33.01	-7.89
2685.00	10	QPSK	1 / 0	24.25	1.00	25.25	0.335	33.01	-7.76
2685.00	10	16-QAM	1 / 0	23.56	1.00	24.56	0.286	33.01	-8.45
2685.00	10	64-QAM	1 / 0	22.60	1.00	23.60	0.229	33.01	-9.41
2503.50	15	QPSK	1 / 36	23.42	1.00	24.42	0.277	33.01	-8.59
2593.00	15	QPSK	1 / 36	24.25	1.00	25.25	0.335	33.01	-7.76
2682.50	15	QPSK	1 / 0	24.25	1.00	25.25	0.335	33.01	-7.76
2593.00	15	16-QAM	1 / 0	23.29	1.00	24.29	0.269	33.01	-8.72
2593.00	15	64-QAM	1 / 36	22.51	1.00	23.51	0.224	33.01	-9.50
2506.00	20	QPSK	1 / 50	23.47	1.00	24.47	0.280	33.01	-8.54
2593.00	20	QPSK	1 / 50	24.24	1.00	25.24	0.334	33.01	-7.77
2680.00	20	QPSK	1 / 0	24.25	1.00	25.25	0.335	33.01	-7.76
2680.00	20	16-QAM	1 / 99	23.27	1.00	24.27	0.267	33.01	-8.74
2680.00	20	64-QAM	1 / 0	22.41	1.00	23.41	0.219	33.01	-9.60

Table 7-69. Antenna 1a EIRP Data (Band 41 PC3)

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 281 of 389

7.8.5 Antenna 3a - EIRP

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1710.70	1.4	QPSK	1 / 0	23.35	-3.10	20.25	0.106	30.00	-9.75
1732.50	1.4	QPSK	1 / 5	23.54	-3.10	20.44	0.111	30.00	-9.56
1754.30	1.4	QPSK	1 / 0	23.39	-3.10	20.29	0.107	30.00	-9.71
1732.50	1.4	16-QAM	1 / 2	22.35	-3.10	19.25	0.084	30.00	-10.75
1732.50	1.4	64-QAM	1 / 5	21.26	-3.10	18.16	0.065	30.00	-11.84
1711.50	3	QPSK	1 / 0	23.31	-3.10	20.21	0.105	30.00	-9.79
1732.50	3	QPSK	1 / 7	23.52	-3.10	20.42	0.110	30.00	-9.58
1753.50	3	QPSK	1 / 7	23.15	-3.10	20.05	0.101	30.00	-9.95
1732.50	3	16-QAM	1 / 7	22.24	-3.10	19.14	0.082	30.00	-10.86
1732.50	3	64-QAM	1 / 7	21.27	-3.10	18.17	0.066	30.00	-11.83
1712.50	5	QPSK	1 / 24	23.56	-3.10	20.46	0.111	30.00	-9.54
1732.50	5	QPSK	1 / 24	23.68	-3.10	20.58	0.114	30.00	-9.42
1752.50	5	QPSK	1 / 0	23.29	-3.10	20.19	0.104	30.00	-9.81
1732.50	5	16-QAM	1 / 24	22.53	-3.10	19.43	0.088	30.00	-10.57
1732.50	5	64-QAM	1 / 0	21.25	-3.10	18.15	0.065	30.00	-11.85
1715.00	10	QPSK	1 / 25	23.53	-3.10	20.43	0.110	30.00	-9.57
1732.50	10	QPSK	1 / 0	23.57	-3.10	20.47	0.111	30.00	-9.53
1750.00	10	QPSK	1 / 0	23.45	-3.10	20.35	0.108	30.00	-9.65
1732.50	10	16-QAM	1 / 0	22.43	-3.10	19.33	0.086	30.00	-10.67
1732.50	10	64-QAM	1 / 0	21.35	-3.10	18.25	0.067	30.00	-11.75
1717.50	15	QPSK	1 / 74	23.75	-3.10	20.65	0.116	30.00	-9.35
1732.50	15	QPSK	1 / 36	23.58	-3.10	20.48	0.112	30.00	-9.52
1747.50	15	QPSK	1 / 0	23.49	-3.10	20.39	0.109	30.00	-9.61
1732.50	15	16-QAM	1 / 36	22.37	-3.10	19.27	0.085	30.00	-10.73
1732.50	15	64-QAM	1 / 36	21.28	-3.10	18.18	0.066	30.00	-11.82
1720.00	20	QPSK	1 / 99	23.74	-3.10	20.64	0.116	30.00	-9.36
1732.50	20	QPSK	1 / 0	23.75	-3.10	20.65	0.116	30.00	-9.35
1745.00	20	QPSK	1 / 0	23.49	-3.10	20.39	0.109	30.00	-9.61
1720.00	20	16-QAM	1 / 99	22.42	-3.10	19.32	0.086	30.00	-10.68
1720.00	20	64-QAM	1 / 99	21.44	-3.10	18.34	0.068	30.00	-11.66

Table 7-70. Antenna 3a EIRP Data (Band 4)

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 282 of 389

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1710.70	1.4	QPSK	1 / 2	23.57	-3.10	20.47	0.111	30.00	-9.53
1745.00	1.4	QPSK	1 / 0	23.67	-3.10	20.57	0.114	30.00	-9.43
1779.30	1.4	QPSK	1 / 0	23.65	-3.10	20.55	0.114	30.00	-9.45
1745.00	1.4	16-QAM	1 / 5	22.52	-3.10	19.42	0.087	30.00	-10.58
1745.00	1.4	64-QAM	1 / 0	21.50	-3.10	18.40	0.069	30.00	-11.60
1711.50	3	QPSK	1 / 7	23.56	-3.10	20.46	0.111	30.00	-9.54
1745.00	3	QPSK	1 / 7	23.65	-3.10	20.55	0.114	30.00	-9.45
1778.50	3	QPSK	1 / 0	23.34	-3.10	20.24	0.106	30.00	-9.76
1745.00	3	16-QAM	1 / 7	22.51	-3.10	19.41	0.087	30.00	-10.59
1745.00	3	64-QAM	1 / 7	21.33	-3.10	18.23	0.067	30.00	-11.77
1712.50	5	QPSK	1 / 24	23.74	-3.10	20.64	0.116	30.00	-9.36
1745.00	5	QPSK	1 / 0	23.75	-3.10	20.65	0.116	30.00	-9.35
1777.50	5	QPSK	1 / 24	23.42	-3.10	20.32	0.108	30.00	-9.68
1745.00	5	16-QAM	1 / 0	22.64	-3.10	19.54	0.090	30.00	-10.46
1745.00	5	64-QAM	1 / 12	21.52	-3.10	18.42	0.070	30.00	-11.58
1715.00	10	QPSK	1 / 25	23.74	-3.10	20.64	0.116	30.00	-9.36
1745.00	10	QPSK	1 / 0	23.71	-3.10	20.61	0.115	30.00	-9.39
1775.00	10	QPSK	1 / 49	23.57	-3.10	20.47	0.111	30.00	-9.53
1745.00	10	16-QAM	1 / 0	22.75	-3.10	19.65	0.092	30.00	-10.35
1745.00	10	64-QAM	1 / 0	21.46	-3.10	18.36	0.069	30.00	-11.64
1717.50	15	QPSK	1 / 74	23.75	-3.10	20.65	0.116	30.00	-9.35
1745.00	15	QPSK	1 / 36	23.69	-3.10	20.59	0.115	30.00	-9.41
1772.50	15	QPSK	1 / 74	23.56	-3.10	20.46	0.111	30.00	-9.54
1745.00	15	16-QAM	1 / 36	22.54	-3.10	19.44	0.088	30.00	-10.56
1745.00	15	64-QAM	1 / 74	21.47	-3.10	18.37	0.069	30.00	-11.63
1720.00	20	QPSK	1 / 99	23.75	-3.10	20.65	0.116	30.00	-9.35
1745.00	20	QPSK	1 / 0	23.69	-3.10	20.59	0.115	30.00	-9.41
1770.00	20	QPSK	1 / 99	23.69	-3.10	20.59	0.115	30.00	-9.41
1745.00	20	16-QAM	1 / 0	22.52	-3.10	19.42	0.087	30.00	-10.58
1745.00	20	64-QAM	1 / 0	21.75	-3.10	18.65	0.073	30.00	-11.35

Table 7-71. Antenna 3a EIRP Data (Band 66)

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 283 of 389

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1850.70	1.4	QPSK	1 / 0	23.61	-4.10	19.51	0.089	33.01	-13.50
1880.00	1.4	QPSK	1 / 5	23.49	-4.10	19.39	0.087	33.01	-13.62
1909.30	1.4	QPSK	1 / 5	23.52	-4.10	19.42	0.087	33.01	-13.59
1850.70	1.4	16-QAM	1 / 5	22.42	-4.10	18.32	0.068	33.01	-14.69
1850.70	1.4	64-QAM	1 / 2	21.40	-4.10	17.30	0.054	33.01	-15.71
1851.50	3	QPSK	1 / 7	23.56	-4.10	19.46	0.088	33.01	-13.55
1880.00	3	QPSK	1 / 7	23.48	-4.10	19.38	0.087	33.01	-13.63
1908.50	3	QPSK	1 / 0	23.24	-4.10	19.14	0.082	33.01	-13.87
1851.50	3	16-QAM	1 / 0	22.48	-4.10	18.38	0.069	33.01	-14.63
1851.50	3	64-QAM	1 / 14	21.46	-4.10	17.36	0.054	33.01	-15.65
1852.50	5	QPSK	1 / 0	23.75	-4.10	19.65	0.092	33.01	-13.36
1880.00	5	QPSK	1 / 24	23.69	-4.10	19.59	0.091	33.01	-13.42
1907.50	5	QPSK	1 / 0	23.46	-4.10	19.36	0.086	33.01	-13.65
1852.50	5	16-QAM	1 / 12	22.56	-4.10	18.46	0.070	33.01	-14.55
1852.50	5	64-QAM	1 / 0	21.60	-4.10	17.50	0.056	33.01	-15.51
1855.00	10	QPSK	1 / 0	23.71	-4.10	19.61	0.091	33.01	-13.40
1880.00	10	QPSK	1 / 49	23.57	-4.10	19.47	0.089	33.01	-13.54
1905.00	10	QPSK	1 / 0	23.70	-4.10	19.60	0.091	33.01	-13.41
1905.00	10	16-QAM	1 / 0	22.72	-4.10	18.62	0.073	33.01	-14.39
1905.00	10	64-QAM	1 / 0	21.60	-4.10	17.50	0.056	33.01	-15.51
1857.50	15	QPSK	1 / 0	23.75	-4.10	19.65	0.092	33.01	-13.36
1880.00	15	QPSK	1 / 74	23.51	-4.10	19.41	0.087	33.01	-13.60
1902.50	15	QPSK	1 / 0	23.62	-4.10	19.52	0.090	33.01	-13.49
1902.50	15	16-QAM	1 / 0	22.72	-4.10	18.62	0.073	33.01	-14.39
1902.50	15	64-QAM	1 / 0	21.44	-4.10	17.34	0.054	33.01	-15.67
1860.00	20	QPSK	1 / 0	23.70	-4.10	19.60	0.091	33.01	-13.41
1880.00	20	QPSK	1 / 99	23.54	-4.10	19.44	0.088	33.01	-13.57
1900.00	20	QPSK	1 / 50	23.75	-4.10	19.65	0.092	33.01	-13.36
1900.00	20	16-QAM	1 / 50	22.64	-4.10	18.54	0.071	33.01	-14.47
1900.00	20	64-QAM	1 / 50	21.56	-4.10	17.46	0.056	33.01	-15.55

Table 7-72. Antenna 3a EIRP Data (Band 2)

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 284 of 389

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1850.70	1.4	QPSK	1 / 0	23.44	-4.10	19.34	0.086	33.01	-13.67
1882.50	1.4	QPSK	1 / 0	23.33	-4.10	19.23	0.084	33.01	-13.78
1914.30	1.4	QPSK	1 / 5	23.72	-4.10	19.62	0.092	33.01	-13.39
1882.50	1.4	16-QAM	1 / 5	22.33	-4.10	18.23	0.067	33.01	-14.78
1882.50	1.4	64-QAM	1 / 5	21.07	-4.10	16.97	0.050	33.01	-16.04
1851.50	3	QPSK	1 / 7	23.41	-4.10	19.31	0.085	33.01	-13.70
1882.50	3	QPSK	1 / 7	23.29	-4.10	19.19	0.083	33.01	-13.82
1913.50	3	QPSK	1 / 14	23.46	-4.10	19.36	0.086	33.01	-13.65
1913.50	3	16-QAM	1 / 14	22.48	-4.10	18.38	0.069	33.01	-14.63
1913.50	3	64-QAM	1 / 14	21.43	-4.10	17.33	0.054	33.01	-15.68
1852.50	5	QPSK	1 / 0	23.61	-4.10	19.51	0.089	33.01	-13.50
1882.50	5	QPSK	1 / 0	23.47	-4.10	19.37	0.086	33.01	-13.64
1912.50	5	QPSK	1 / 24	23.60	-4.10	19.50	0.089	33.01	-13.51
1852.50	5	16-QAM	1 / 0	22.51	-4.10	18.41	0.069	33.01	-14.60
1852.50	5	64-QAM	1 / 0	21.38	-4.10	17.28	0.053	33.01	-15.73
1855.00	10	QPSK	1 / 0	23.50	-4.10	19.40	0.087	33.01	-13.61
1882.50	10	QPSK	1 / 49	23.40	-4.10	19.30	0.085	33.01	-13.71
1910.00	10	QPSK	1 / 49	23.57	-4.10	19.47	0.089	33.01	-13.54
1910.00	10	16-QAM	1 / 49	22.49	-4.10	18.39	0.069	33.01	-14.62
1910.00	10	64-QAM	1 / 49	21.38	-4.10	17.28	0.053	33.01	-15.73
1857.50	15	QPSK	1 / 0	23.63	-4.10	19.53	0.090	33.01	-13.48
1882.50	15	QPSK	1 / 36	23.34	-4.10	19.24	0.084	33.01	-13.77
1907.50	15	QPSK	1 / 74	23.53	-4.10	19.43	0.088	33.01	-13.58
1907.50	15	16-QAM	1 / 0	22.50	-4.10	18.40	0.069	33.01	-14.61
1907.50	15	64-QAM	1 / 74	21.39	-4.10	17.29	0.054	33.01	-15.72
1860.00	20	QPSK	1 / 0	23.63	-4.10	19.53	0.090	33.01	-13.48
1882.50	20	QPSK	1 / 99	23.35	-4.10	19.25	0.084	33.01	-13.76
1905.00	20	QPSK	1 / 99	23.75	-4.10	19.65	0.092	33.01	-13.36
1905.00	20	16-QAM	1 / 0	22.48	-4.10	18.38	0.069	33.01	-14.63
1905.00	20	64-QAM	1 / 99	21.55	-4.10	17.45	0.056	33.01	-15.56

Table 7-73. Antenna 3a EIRP Data (Band 25)

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 285 of 389

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
2307.50	5	QPSK	25 / 0	23.31	-3.30	20.01	0.100	23.98	-3.97
2312.50	5	QPSK	1 / 0	23.50	-3.30	20.20	0.105	23.98	-3.78
2312.50	5	16-QAM	1 / 0	22.74	-3.30	19.44	0.088	23.98	-4.54
2312.50	5	64-QAM	1 / 12	21.55	-3.30	18.25	0.067	23.98	-5.73
2310.00	10	QPSK	1 / 25	23.50	-3.30	20.20	0.105	23.98	-3.78
2310.00	10	16-QAM	1 / 49	22.83	-3.30	19.53	0.090	23.98	-4.45
2310.00	10	64-QAM	1 / 25	21.79	-3.30	18.49	0.071	23.98	-5.49

Table 7-74. Antenna 3a EIRP Data (Band 30)

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 286 of 389

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
2502.50	5	QPSK	1 / 24	23.30	-1.70	21.60	0.145	33.01	-11.41
2535.00	5	QPSK	1 / 0	23.23	-1.70	21.53	0.142	33.01	-11.48
2567.50	5	QPSK	1 / 0	23.50	-1.70	21.80	0.151	33.01	-11.21
2567.50	5	16-QAM	1 / 24	22.64	-1.70	20.94	0.124	33.01	-12.07
2567.50	5	64-QAM	1 / 0	21.63	-1.70	19.93	0.098	33.01	-13.08
2505.00	10	QPSK	1 / 49	23.50	-1.70	21.80	0.151	33.01	-11.21
2535.00	10	QPSK	1 / 0	23.30	-1.70	21.60	0.145	33.01	-11.41
2565.00	10	QPSK	1 / 0	23.44	-1.70	21.74	0.149	33.01	-11.27
2505.00	10	16-QAM	1 / 25	22.71	-1.70	21.01	0.126	33.01	-12.00
2505.00	10	64-QAM	1 / 49	21.59	-1.70	19.89	0.097	33.01	-13.12
2507.50	15	QPSK	1 / 74	23.45	-1.70	21.75	0.150	33.01	-11.26
2535.00	15	QPSK	1 / 0	23.29	-1.70	21.59	0.144	33.01	-11.42
2562.50	15	QPSK	1 / 36	23.44	-1.70	21.74	0.149	33.01	-11.27
2507.50	15	16-QAM	1 / 74	22.75	-1.70	21.05	0.127	33.01	-11.96
2507.50	15	64-QAM	1 / 0	21.70	-1.70	20.00	0.100	33.01	-13.01
2510.00	20	QPSK	1 / 99	23.50	-1.70	21.80	0.151	33.01	-11.21
2535.00	20	QPSK	1 / 0	23.42	-1.70	21.72	0.149	33.01	-11.29
2560.00	20	QPSK	1 / 99	23.47	-1.70	21.77	0.150	33.01	-11.24
2510.00	20	16-QAM	1 / 99	22.66	-1.70	20.96	0.125	33.01	-12.05
2510.00	20	64-QAM	1 / 50	21.74	-1.70	20.04	0.101	33.01	-12.97

Table 7-75. Antenna 3a EIRP Data (Band 7)

FCC ID: BCGA2072	 Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 287 of 389

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
2498.50	5	QPSK	1 / 12	24.99	-1.70	23.29	0.213	33.01	-9.72
2593.00	5	QPSK	1 / 0	26.36	-1.70	24.66	0.292	33.01	-8.35
2687.50	5	QPSK	1 / 0	26.43	-1.70	24.73	0.297	33.01	-8.28
2687.50	5	16-QAM	1 / 0	25.88	-1.70	24.18	0.262	33.01	-8.83
2687.50	5	64-QAM	1 / 24	24.95	-1.70	23.25	0.211	33.01	-9.76
2501.00	10	QPSK	1 / 49	24.88	-1.70	23.18	0.208	33.01	-9.83
2593.00	10	QPSK	1 / 49	26.37	-1.70	24.67	0.293	33.01	-8.34
2685.00	10	QPSK	1 / 0	26.37	-1.70	24.67	0.293	33.01	-8.34
2593.00	10	16-QAM	1 / 0	26.08	-1.70	24.38	0.274	33.01	-8.63
2593.00	10	64-QAM	1 / 0	24.89	-1.70	23.19	0.208	33.01	-9.82
2503.50	15	QPSK	1 / 74	25.00	-1.70	23.30	0.214	33.01	-9.71
2593.00	15	QPSK	1 / 36	26.49	-1.70	24.79	0.301	33.01	-8.22
2682.50	15	QPSK	1 / 0	26.26	-1.70	24.56	0.286	33.01	-8.45
2593.00	15	16-QAM	1 / 36	25.79	-1.70	24.09	0.256	33.01	-8.92
2593.00	15	64-QAM	1 / 36	24.73	-1.70	23.03	0.201	33.01	-9.98
2506.00	20	QPSK	1 / 99	25.00	-1.70	23.30	0.214	33.01	-9.71
2593.00	20	QPSK	1 / 0	26.50	-1.70	24.80	0.302	33.01	-8.21
2680.00	20	QPSK	1 / 99	26.48	-1.70	24.78	0.301	33.01	-8.23
2593.00	20	16-QAM	1 / 99	26.03	-1.70	24.33	0.271	33.01	-8.68
2593.00	20	64-QAM	1 / 99	24.88	-1.70	23.18	0.208	33.01	-9.83

Table 7-76. Antenna 3a EIRP Data (Band 41 PC2)

FCC ID: BCGA2072	 PCTEST Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 288 of 389

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
2498.50	5	QPSK	1 / 24	23.50	-1.70	21.80	0.151	33.01	-11.21
2593.00	5	QPSK	1 / 24	23.50	-1.70	21.80	0.151	33.01	-11.21
2687.50	5	QPSK	1 / 24	23.26	-1.70	21.56	0.143	33.01	-11.45
2593.00	5	16-QAM	1 / 24	22.83	-1.70	21.13	0.130	33.01	-11.88
2593.00	5	64-QAM	1 / 24	21.62	-1.70	19.92	0.098	33.01	-13.09
2501.00	10	QPSK	1 / 49	23.50	-1.70	21.80	0.151	33.01	-11.21
2593.00	10	QPSK	1 / 0	23.03	-1.70	21.33	0.136	33.01	-11.68
2685.00	10	QPSK	1 / 49	23.17	-1.70	21.47	0.140	33.01	-11.54
2685.00	10	16-QAM	1 / 49	22.71	-1.70	21.01	0.126	33.01	-12.00
2685.00	10	64-QAM	1 / 49	21.54	-1.70	19.84	0.096	33.01	-13.17
2503.50	15	QPSK	1 / 74	23.50	-1.70	21.80	0.151	33.01	-11.21
2593.00	15	QPSK	1 / 36	23.50	-1.70	21.80	0.151	33.01	-11.21
2682.50	15	QPSK	1 / 74	23.15	-1.70	21.45	0.140	33.01	-11.56
2593.00	15	16-QAM	1 / 36	22.74	-1.70	21.04	0.127	33.01	-11.97
2593.00	15	64-QAM	1 / 36	21.64	-1.70	19.94	0.099	33.01	-13.07
2506.00	20	QPSK	1 / 99	23.38	-1.70	21.68	0.147	33.01	-11.33
2593.00	20	QPSK	1 / 0	23.50	-1.70	21.80	0.151	33.01	-11.21
2680.00	20	QPSK	1 / 99	23.42	-1.70	21.72	0.149	33.01	-11.29
2593.00	20	16-QAM	1 / 50	22.98	-1.70	21.28	0.134	33.01	-11.73
2593.00	20	64-QAM	1 / 0	22.01	-1.70	20.31	0.107	33.01	-12.70

Table 7-77. Antenna 3a EIRP Data (Band 41 PC3)

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 289 of 389

7.9 Radiated Spurious Emissions

Test Overview

Radiated spurious emissions measurements are performed using the substitution method described in ANSI C63.26-2015 and TIA-603-E-2016 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using vertically and horizontally polarized tuned dipole antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas.

Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.8

ANSI C63.26-2015

TIA-603-E-2016 – Section 2.2.12

Test Settings

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

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 290 of 389

Test Setup

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

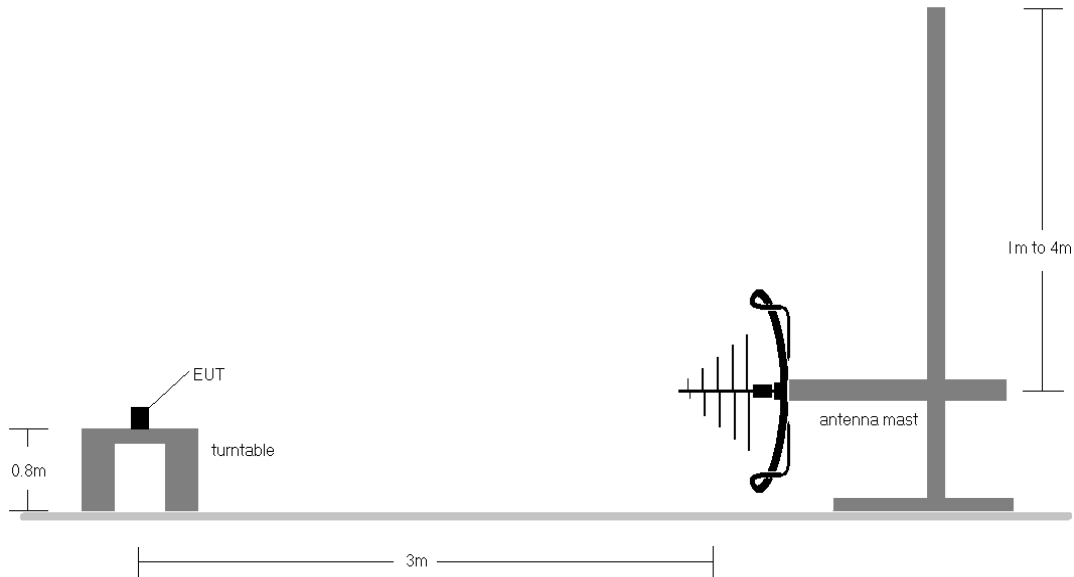


Figure 7-8. Test Instrument & Measurement Setup < 1GHz

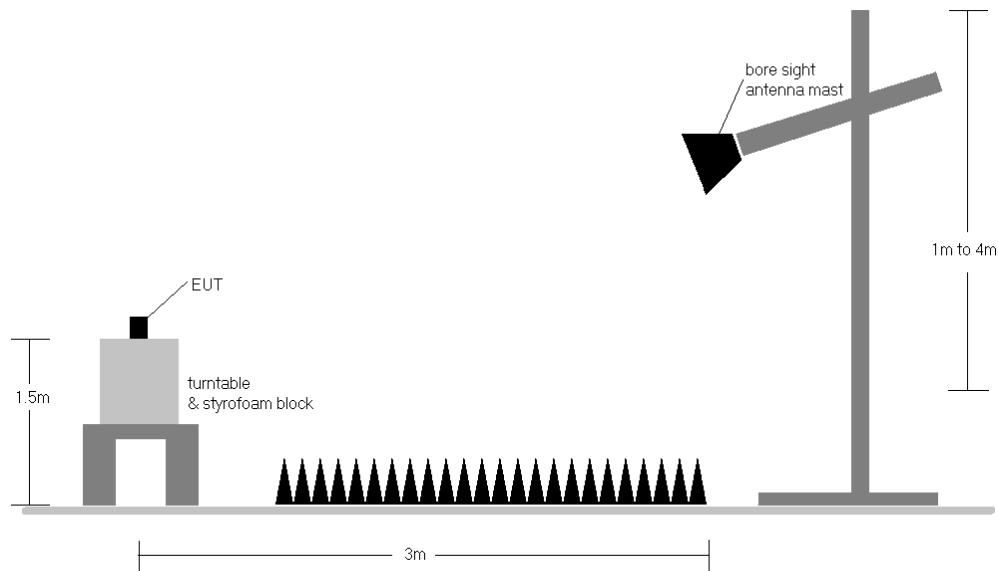


Figure 7-9. Test Instrument & Measurement Setup > 1GHz

FCC ID: BCGA2072	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 291 of 389

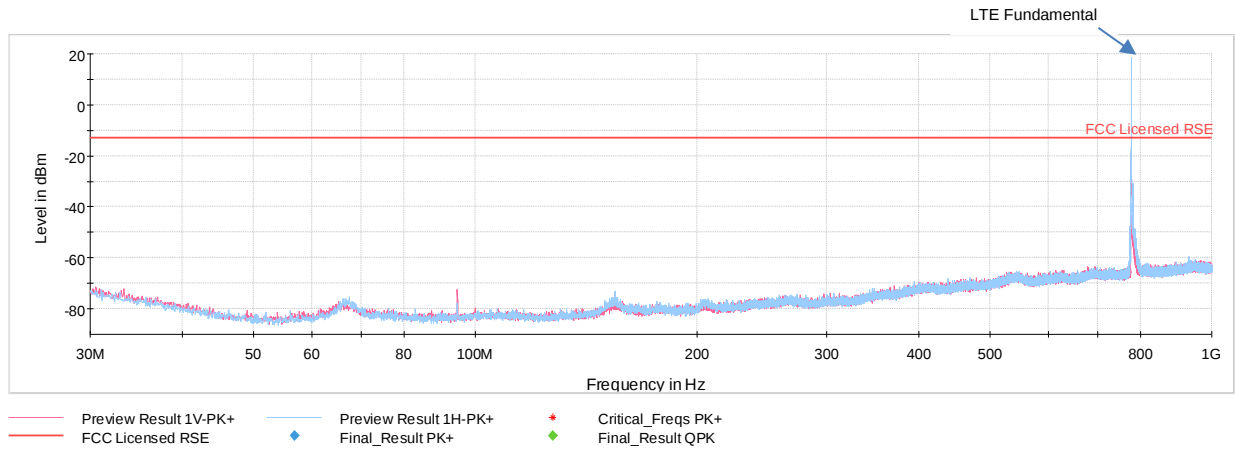
Test Notes

- 1) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with modulations, offsets and channel bandwidth configurations in this section. 1RB config was found and reported as a worst case RB size.
- 2) This unit was tested with its standard battery.
- 3) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 4) 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.
- 5) The "-" shown in the following RSE tables are used to denote a noise floor measurement.
- 6) No significant emissions were found for below 1GHz and Above 18GHz measurement.
- 7) For LTE Band 30 pre-scans above 1GHz, the RBW is set to 1MHz and VBW to 30kHz. For final measurements above 1GHz, the RBW is set to 1MHz and VBW to 3MHz when measuring with an RMS detector and trace averaging.
- 8) Spot-check testing of the following data was performed and confirmed to be within guidance per Data Re-use KDB defined by the FCC.

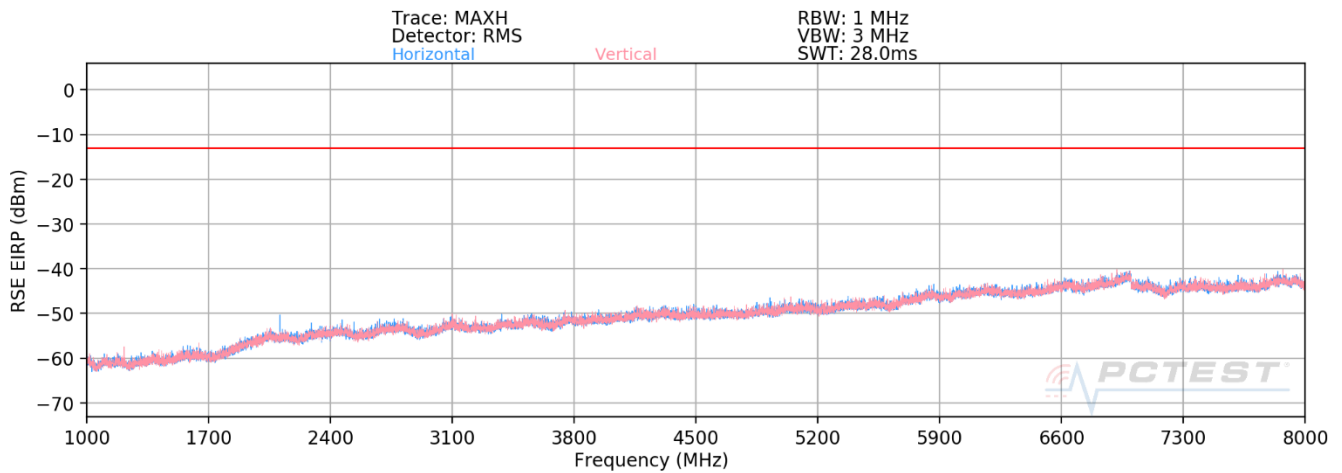
FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device
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7.9.1 Antenna 4 Radiated Spurious Emissions Measurements

Band 12/17



Plot 7-407. Radiated Spurious Emissions below 1GHz (Band 12/17)



Plot 7-408. Radiated Spurious Emissions above 1GHz (Band 12/17)

FCC ID: BCGA2072	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 293 of 389

OPERATING FREQUENCY: 704.00 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1408.00	H	330	345	-70.11	3.20	-66.91	-53.9
2112.00	H	247	189	-62.11	3.13	-58.99	-46.0
2816.00	H	-	-	-67.09	5.31	-61.77	-48.8
3520.00	H	-	-	-67.85	6.80	-61.04	-48.0
4224.00	H	-	-	-68.70	8.03	-60.67	-47.7

Table 7-78. Radiated Spurious Data (Band 12/17 - Low Channel)

OPERATING FREQUENCY: 707.50 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1415.00	H	191	184	-69.13	3.26	-65.87	-52.9
2122.50	H	308	241	-59.29	3.18	-56.11	-43.1
2830.00	H	-	-	-67.32	5.30	-62.02	-49.0
3537.50	H	-	-	-68.09	6.80	-61.30	-48.3
4245.00	H	-	-	-68.64	8.05	-60.58	-47.6

Table 7-79. Radiated Spurious Data (Band 12/17 - Mid Channel)

FCC ID: BCGA2072	 PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 294 of 389

OPERATING FREQUENCY: 711.00 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1422.00	H	153	247	-68.77	3.35	-65.42	-52.4
2133.00	H	29	153	-56.12	3.23	-52.89	-39.9
2844.00	H	-	-	-67.51	5.37	-62.14	-49.1
3555.00	H	132	327	-67.57	6.81	-60.76	-47.8
4266.00	H	-	-	-68.83	8.05	-60.78	-47.8
4977.00	H	-	-	-67.88	8.83	-59.04	-46.0
5688.00	H	-	-	-67.27	9.35	-57.92	-44.9

Table 7-80. Radiated Spurious Data (Band 12/17 - High Channel)

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 295 of 389