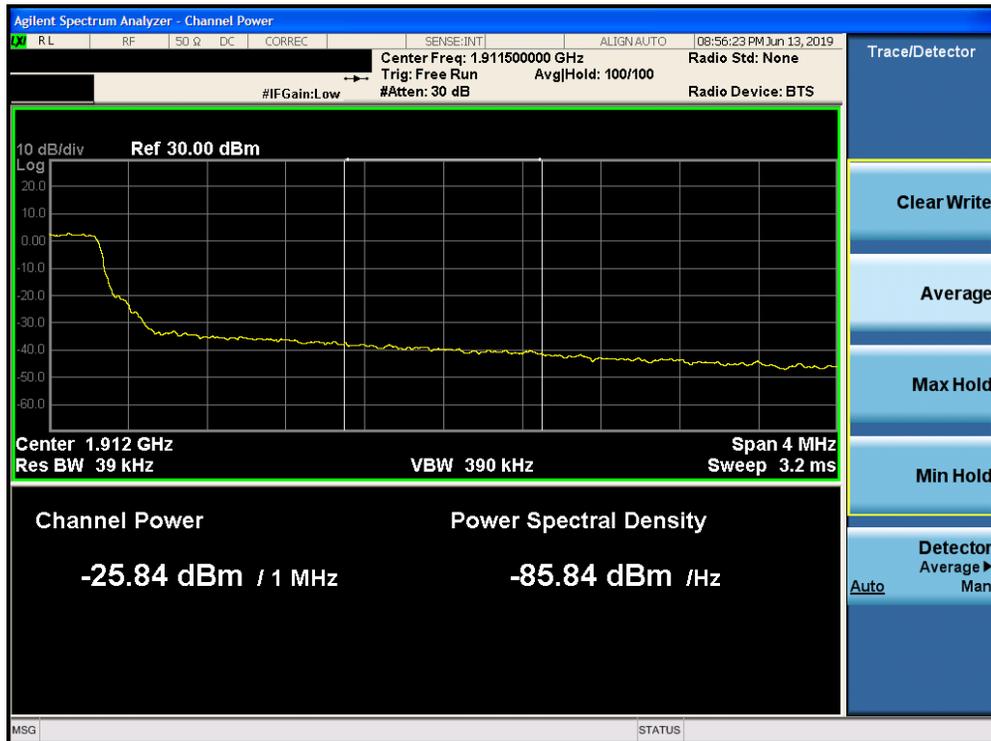


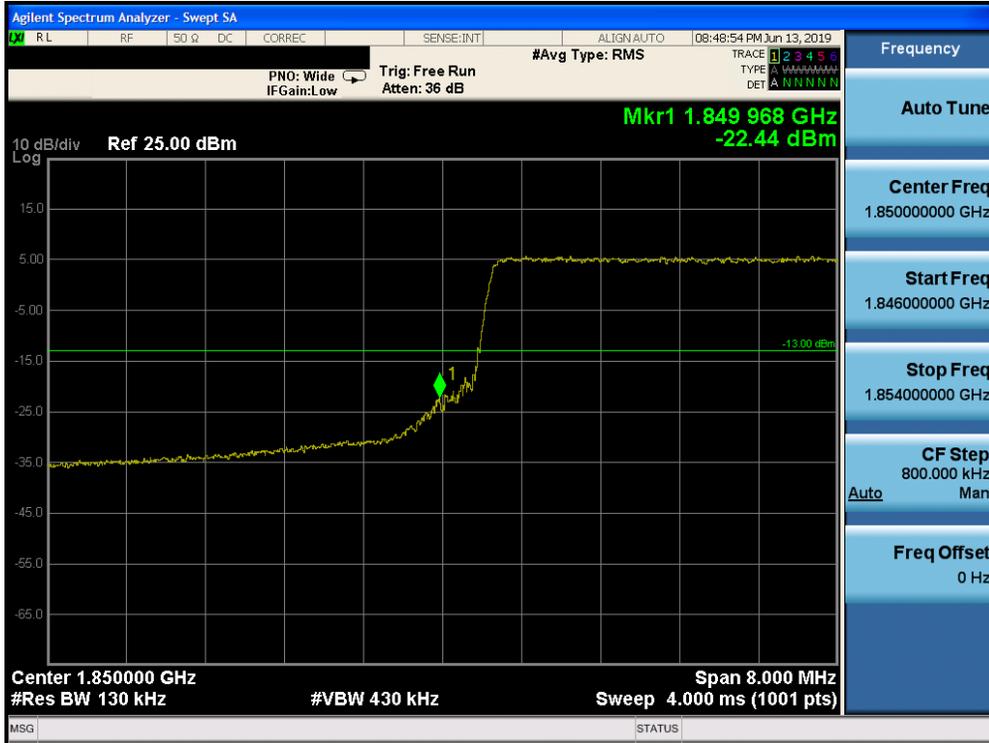


Plot 7-238. Upper Band Edge Plot (Band 2 - 5.0MHz QPSK - Full RB Configuration)

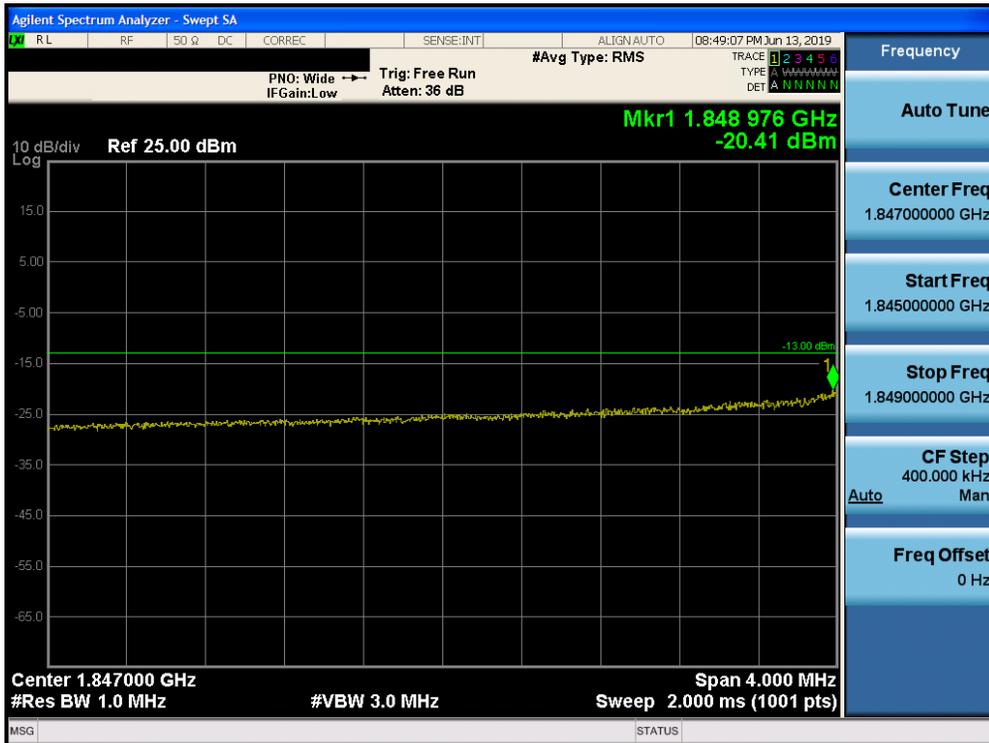


Plot 7-239. Upper Extended Band Edge Plot (Band 2 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: BCG-A2095	PCTEST ENGINEERING LABORATORY, INC.		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-240. Lower Band Edge Plot (Band 2 - 10.0MHz QPSK - Full RB Configuration)



Plot 7-241. Lower Extended Band Edge Plot (Band 2 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: BCG-A2095	PCTEST ENGINEERING LABORATORY, INC.		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1905130010-03.BCG	Test Dates: 05/01/2019 - 08/15/2019	EUT Type: Watch		Page 149 of 235

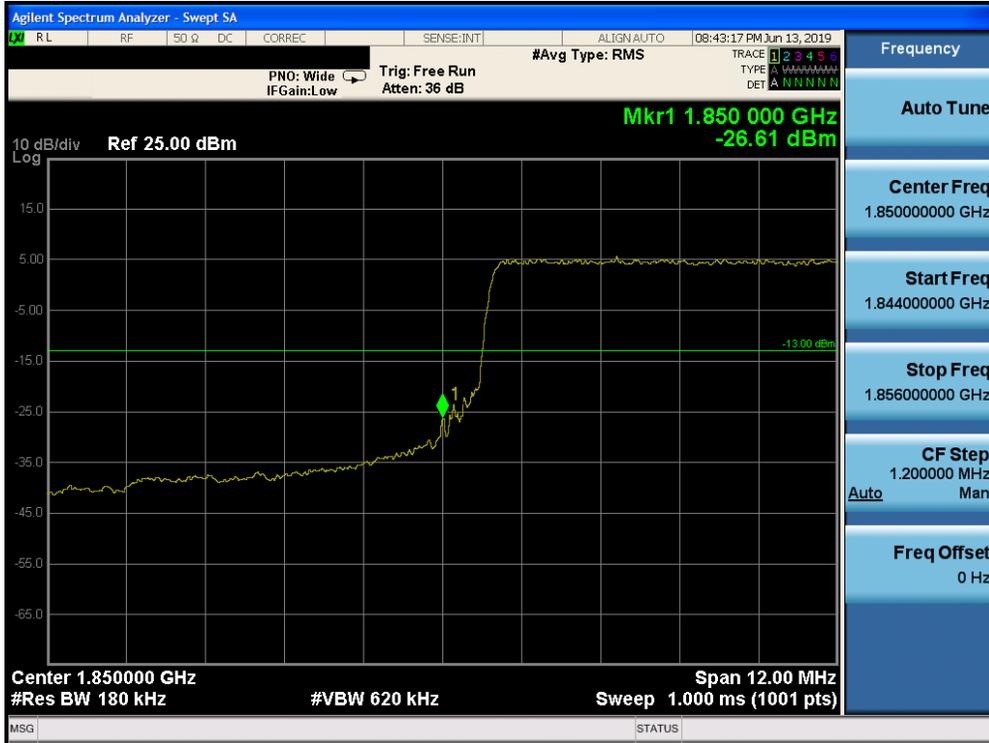


Plot 7-242. Upper Band Edge Plot (Band 2 - 10.0MHz QPSK - Full RB Configuration)

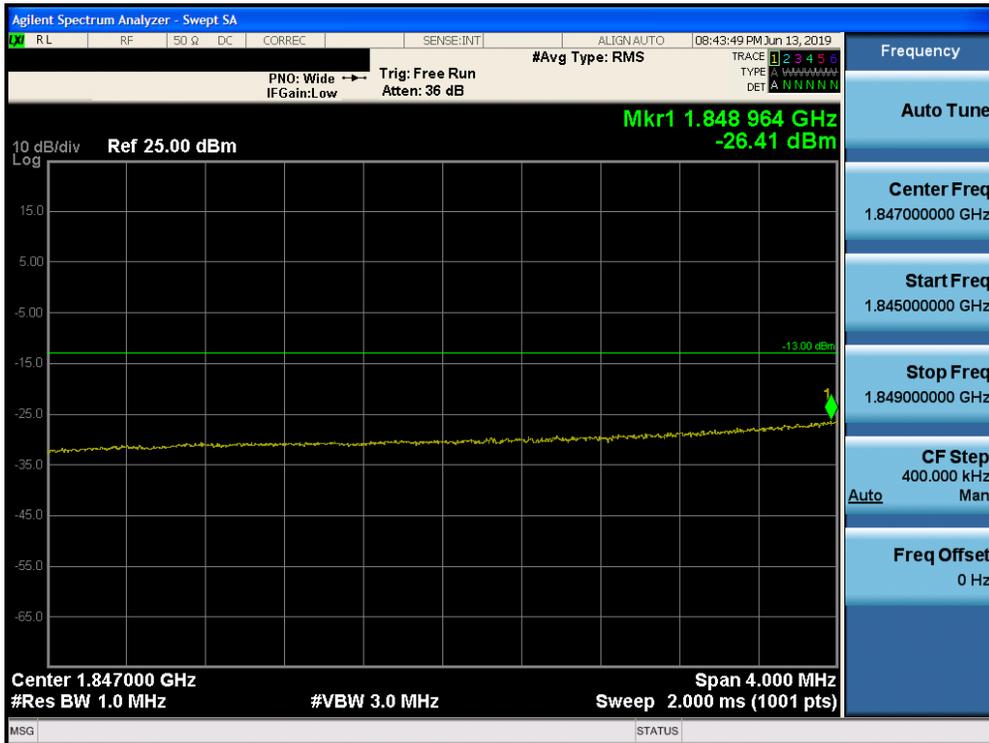


Plot 7-243. Upper Extended Band Edge Plot (Band 2 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: BCG-A2095	PCTEST ENGINEERING LABORATORY, INC.		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1905130010-03.BCG	Test Dates: 05/01/2019 - 08/15/2019	EUT Type: Watch		Page 150 of 235



Plot 7-244. Lower Band Edge Plot (Band 2 - 15.0MHz QPSK - Full RB Configuration)



Plot 7-245. Lower Extended Band Edge Plot (Band 2 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: BCG-A2095	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1905130010-03.BCG	Test Dates: 05/01/2019 - 08/15/2019	EUT Type: Watch	Page 151 of 235

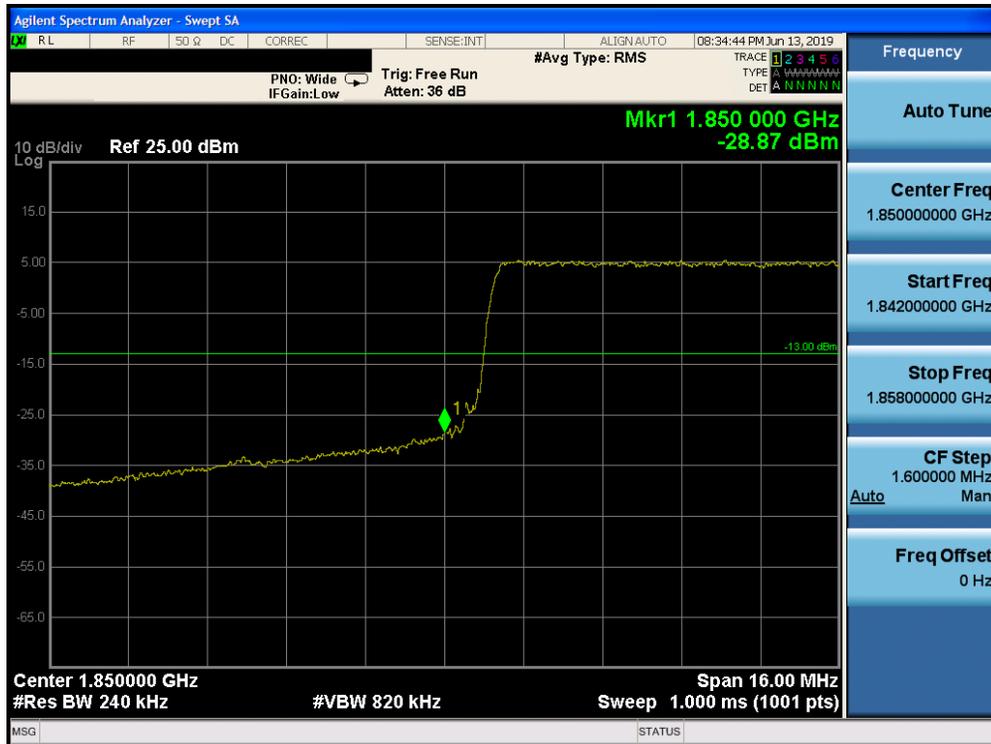


Plot 7-246. Upper Band Edge Plot (Band 2 - 15.0MHz QPSK - Full RB Configuration)

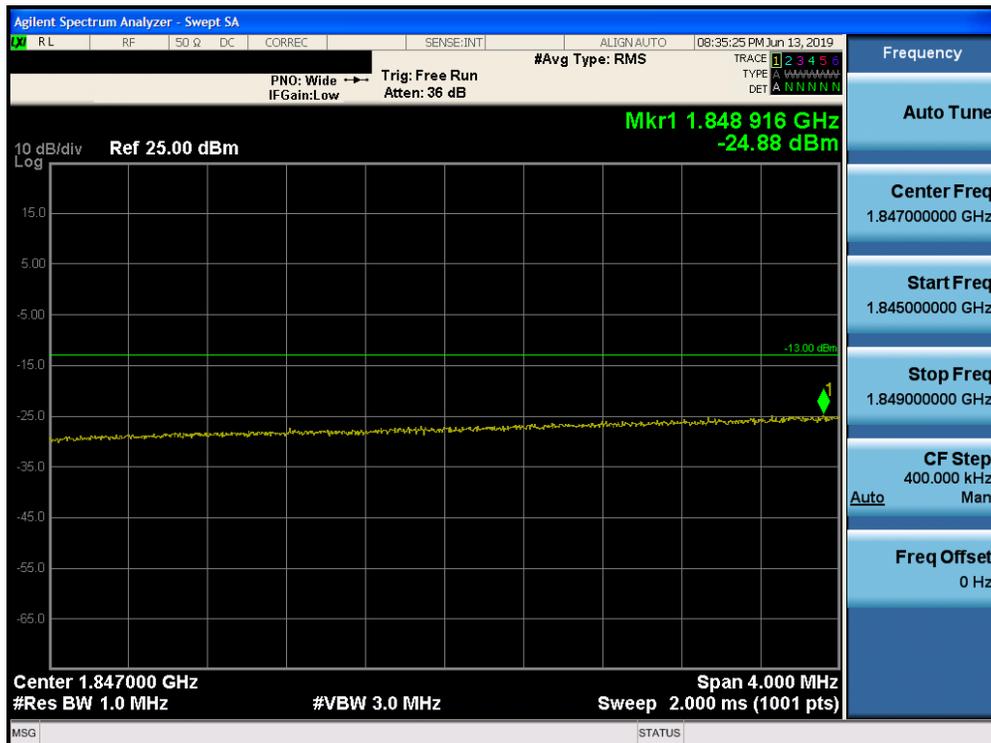


Plot 7-247. Upper Extended Band Edge Plot (Band 2 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: BCG-A2095		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1905130010-03.BCG	Test Dates: 05/01/2019 - 08/15/2019	EUT Type: Watch	Page 152 of 235



Plot 7-248. Lower Band Edge Plot (Band 2 - 20.0MHz QPSK - Full RB Configuration)



Plot 7-249. Lower Extended Band Edge Plot (Band 2 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: BCG-A2095	PCTEST ENGINEERING LABORATORY, INC.		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1905130010-03.BCG	Test Dates: 05/01/2019 - 08/15/2019	EUT Type: Watch		Page 153 of 235



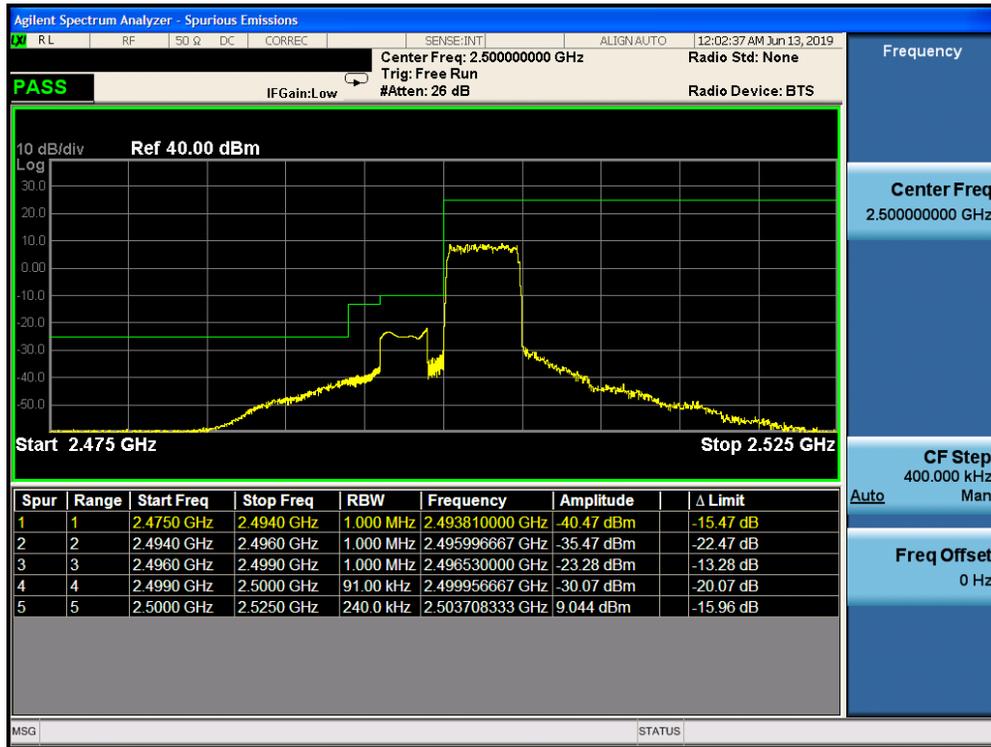
Plot 7-250. Upper Band Edge Plot (Band 2 - 20.0MHz QPSK - Full RB Configuration)



Plot 7-251. Upper Extended Band Edge Plot (Band 2 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: BCG-A2095		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1905130010-03.BCG	Test Dates: 05/01/2019 - 08/15/2019	EUT Type: Watch	Page 154 of 235

Band 7

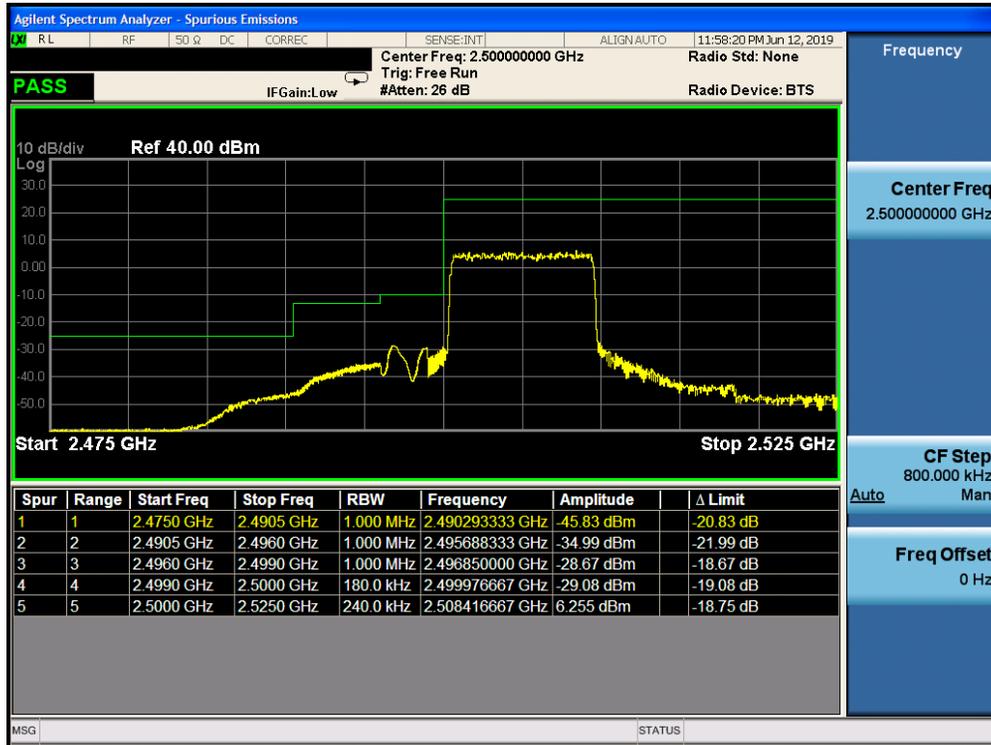


Plot 7-252. Lower ACP Plot (Band 7 - 5.0MHz QPSK - Full RB Configuration)



Plot 7-253. Upper ACP Plot (Band 7 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: BCG-A2095		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1905130010-03.BCG	Test Dates: 05/01/2019 - 08/15/2019	EUT Type: Watch	Page 155 of 235

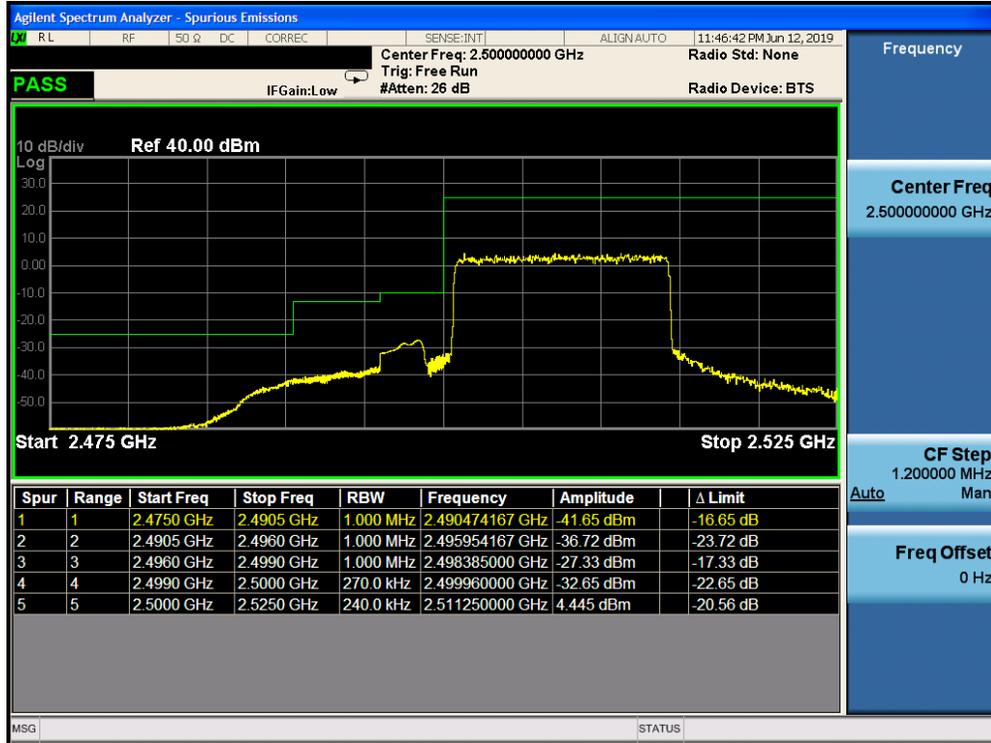


Plot 7-254. Lower ACP Plot (Band 7 - 10.0MHz QPSK - Full RB Configuration)

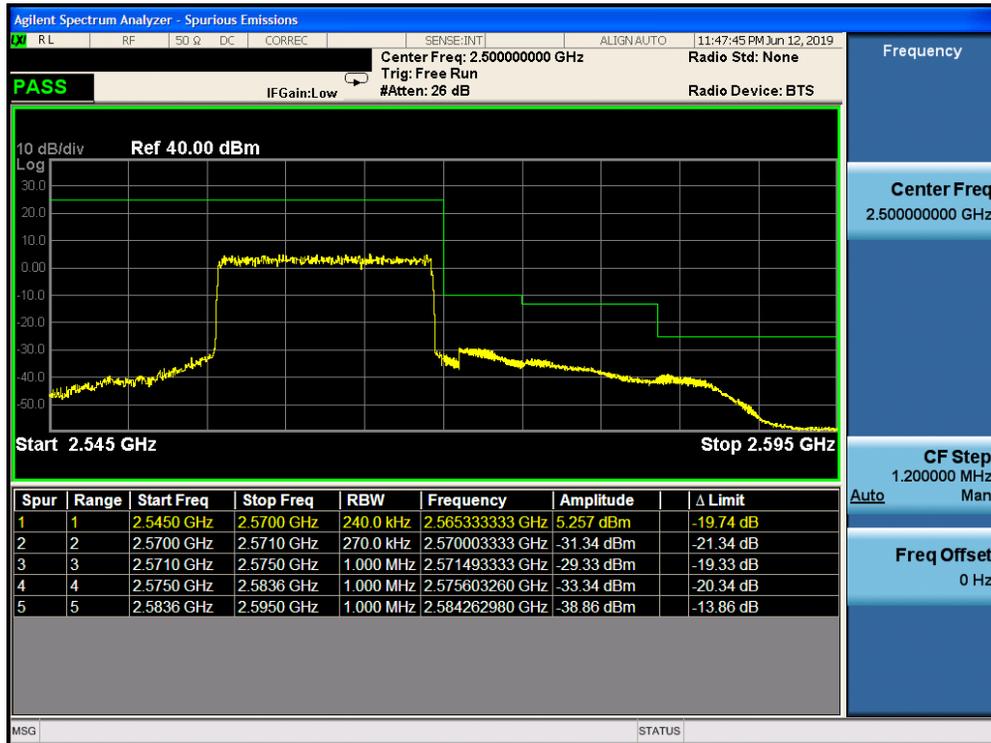


Plot 7-255. Upper ACP Plot (Band 7 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: BCG-A2095		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1905130010-03.BCG	Test Dates: 05/01/2019 - 08/15/2019	EUT Type: Watch	Page 156 of 235

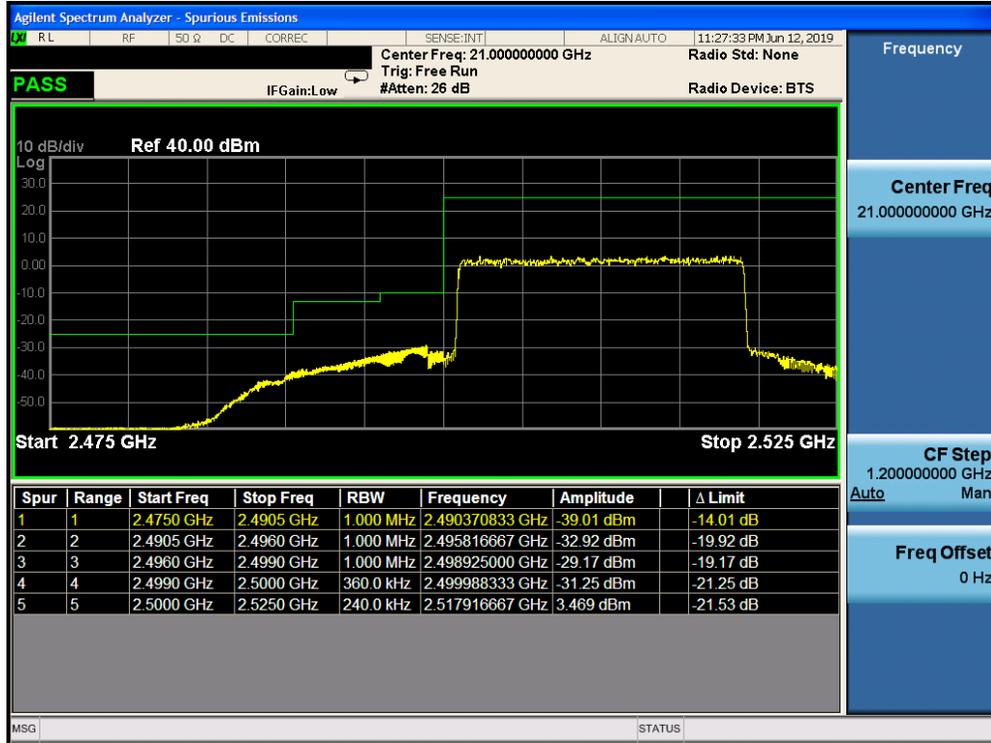


Plot 7-256. Lower ACP Plot (Band 7 - 15.0MHz QPSK - Full RB Configuration)

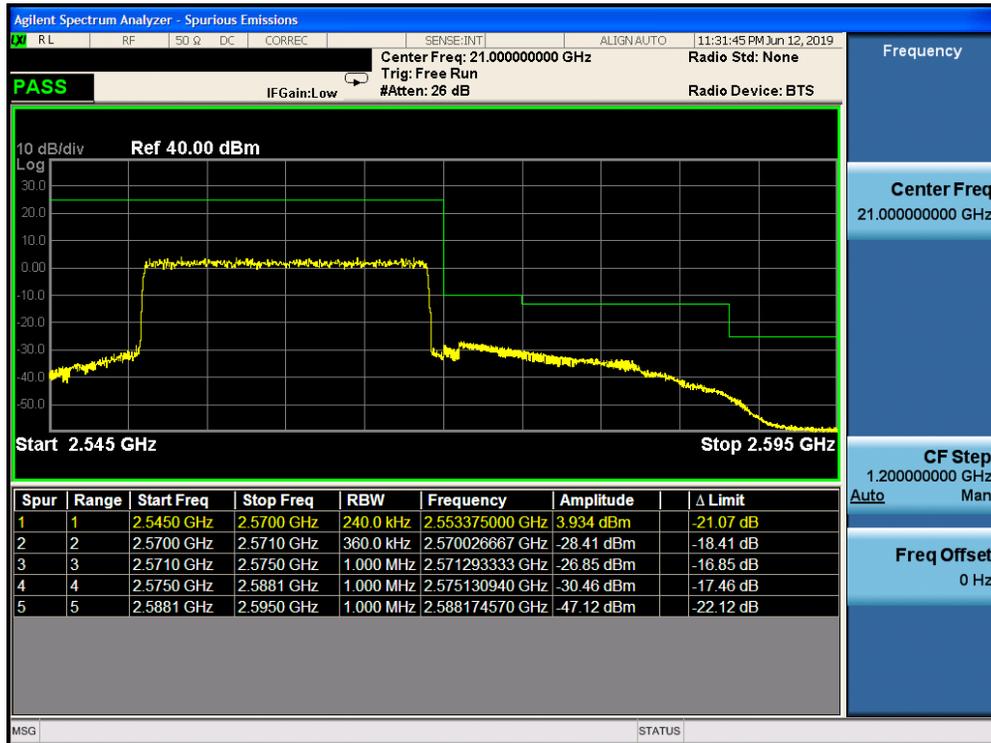


Plot 7-257. Upper ACP Plot (Band 7 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: BCG-A2095		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1905130010-03.BCG	Test Dates: 05/01/2019 - 08/15/2019	EUT Type: Watch	Page 157 of 235



Plot 7-258. Lower ACP Plot (Band 7 - 20.0MHz QPSK - Full RB Configuration)



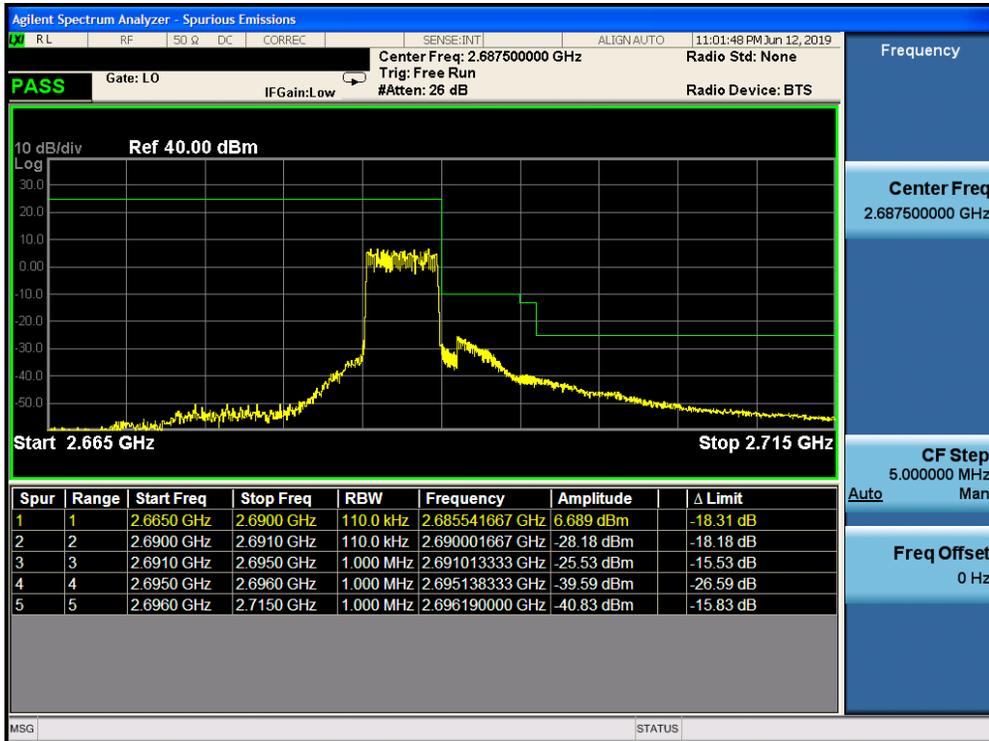
Plot 7-259. Upper ACP Plot (Band 7 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: BCG-A2095		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1905130010-03.BCG	Test Dates: 05/01/2019 - 08/15/2019	EUT Type: Watch	Page 158 of 235

Band 41



Plot 7-260. Lower ACP Plot (Band 41 - 5.0MHz QPSK - Full RB Configuration)



Plot 7-261. Upper ACP Plot (Band 41 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: BCG-A2095		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1905130010-03.BCG	Test Dates: 05/01/2019 - 08/15/2019	EUT Type: Watch	Page 159 of 235

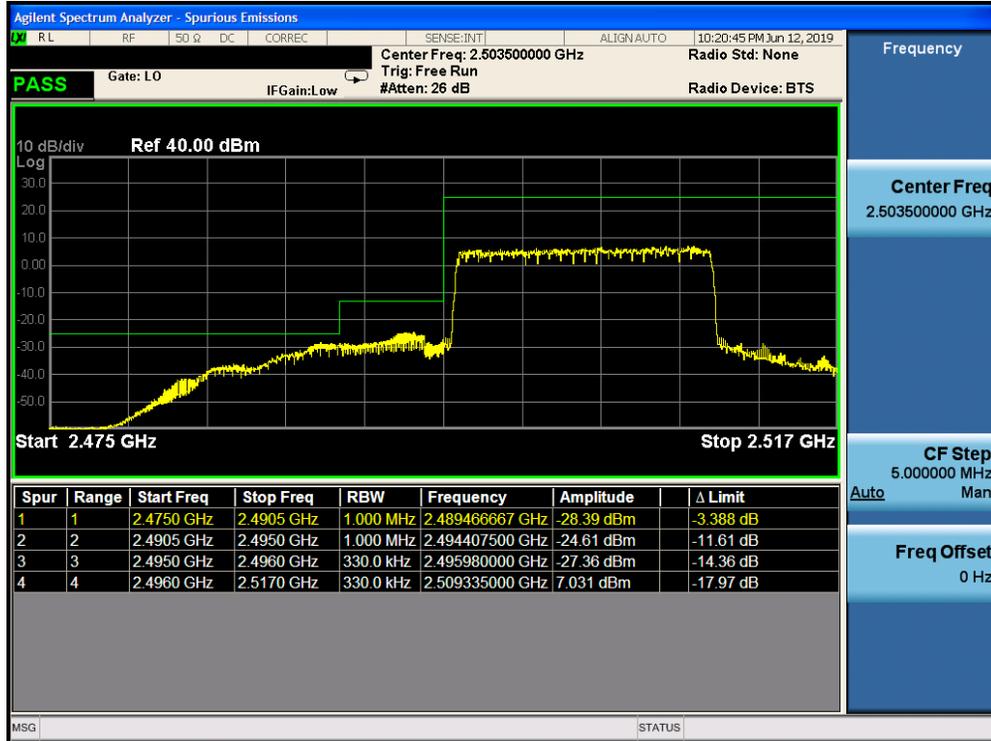


Plot 7-262. Lower ACP Plot (Band 41 - 10.0MHz QPSK - Full RB Configuration)



Plot 7-263. Upper ACP Plot (Band 41 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: BCG-A2095		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1905130010-03.BCG	Test Dates: 05/01/2019 - 08/15/2019	EUT Type: Watch	Page 160 of 235

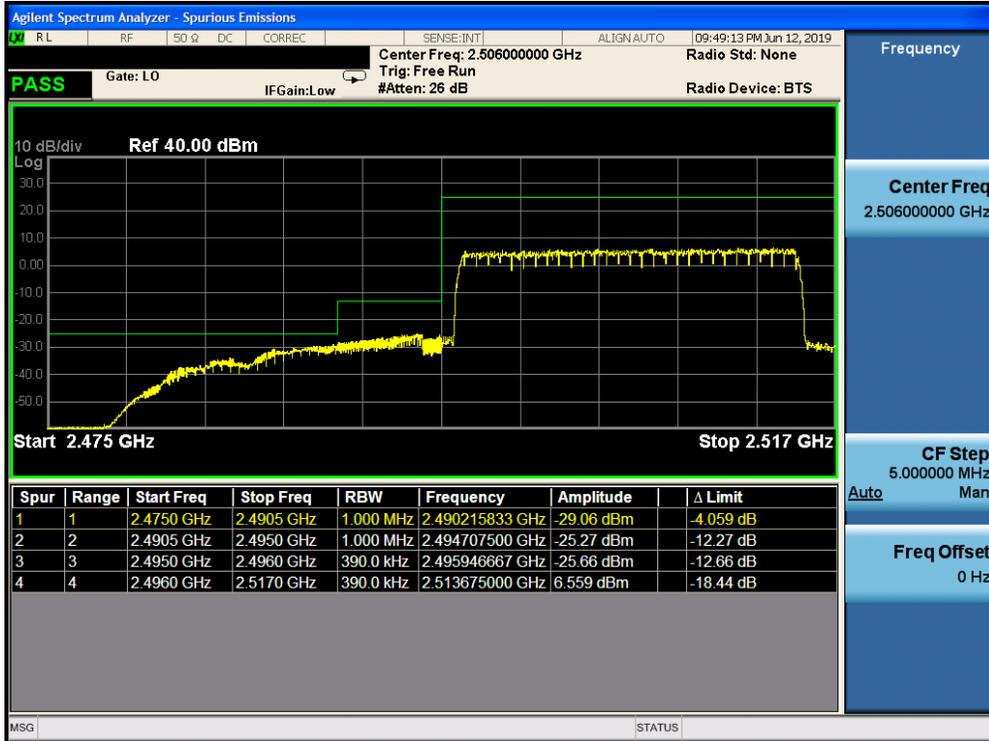


Plot 7-264. Lower ACP Plot (Band 41 - 15.0MHz QPSK - Full RB Configuration)

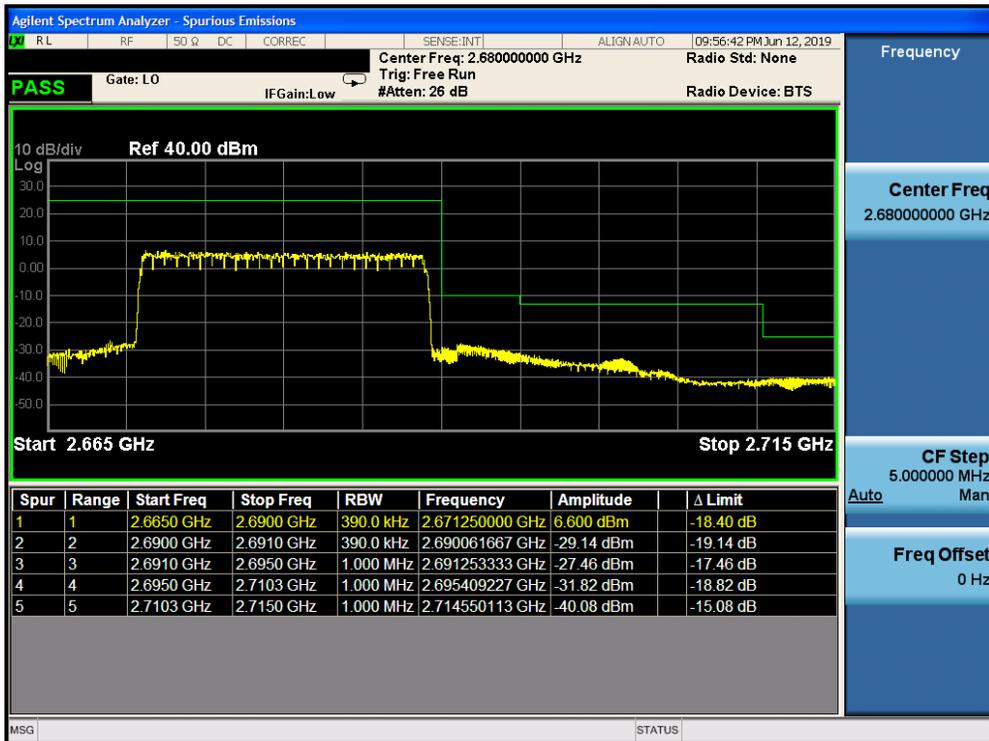


Plot 7-265. Upper ACP Plot (Band 41 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: BCG-A2095		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1905130010-03.BCG	Test Dates: 05/01/2019 - 08/15/2019	EUT Type: Watch	Page 161 of 235



Plot 7-266. Lower ACP Plot (Band 41 - 20.0MHz QPSK - Full RB Configuration)



Plot 7-267. Upper ACP Plot (Band 41 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: BCG-A2095		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1905130010-03.BCG	Test Dates: 05/01/2019 - 08/15/2019	EUT Type: Watch	Page 162 of 235

7.5 Peak-Average Ratio

Test Overview

A peak to average ratio measurement is performed at the conducted port of the EUT. The spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth. The CCDF curve shows how much time the peak waveform spends at or above a given average power level. The percent of time the signal spends at or above the level defines the probability for that particular power level.

Test Procedure Used

KDB 971168 D01 v03r01 – Section 5.7.1

Test Settings

1. The signal analyzer’s CCDF measurement profile is enabled
2. Frequency = carrier center frequency
3. Measurement BW \geq OBW or specified reference bandwidth
4. The signal analyzer was set to collect one million samples to generate the CCDF curve
5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms. For burst transmissions, the spectrum analyzer is set to use an internal “RF Burst” trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the “on time” of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power

Test Setup

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

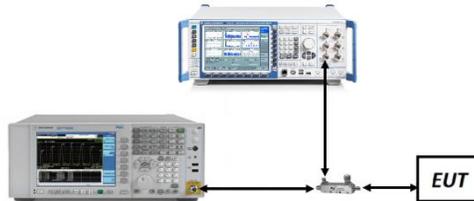


Figure 7-4. Test Instrument & Measurement Setup

Test Notes

None.

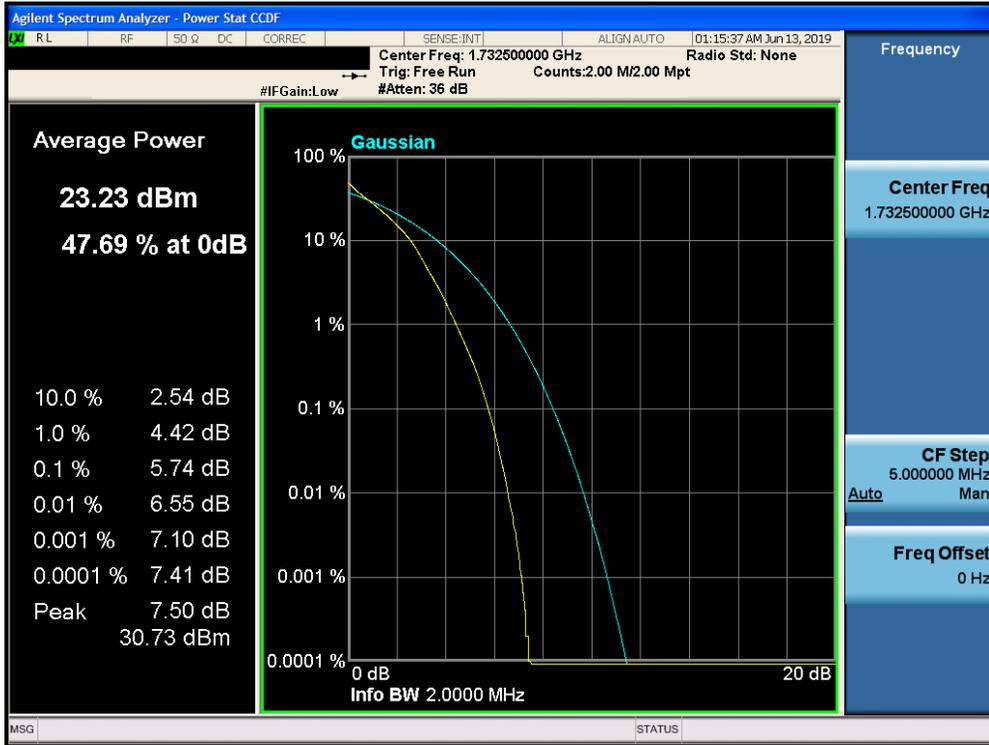
FCC ID: BCG-A2095	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1905130010-03.BCG	Test Dates: 05/01/2019 - 08/15/2019	EUT Type: Watch	Page 163 of 235

Mode	BW (MHz)	Modulation	Average Power [dBm]	PAR at 0.1% [dB]	Limit [dB]	Margin [dB]
LTE Band 4	1.4	QPSK	23.23	5.74	13	-7.26
LTE Band 4	1.4	16QAM	22.56	6.39	13	-6.61
LTE Band 4	3	QPSK	23.26	5.79	13	-7.21
LTE Band 4	3	16QAM	22.53	6.45	13	-6.55
LTE Band 4	5	QPSK	23.27	5.80	13	-7.20
LTE Band 4	5	16QAM	22.51	6.35	13	-6.65
LTE Band 4	10	QPSK	23.21	5.72	13	-7.28
LTE Band 4	10	16QAM	22.51	6.31	13	-6.69
LTE Band 4	15	QPSK	23.25	5.92	13	-7.08
LTE Band 4	15	16QAM	22.47	6.30	13	-6.70
LTE Band 4	20	QPSK	23.32	5.65	13	-7.35
LTE Band 4	20	16QAM	22.36	6.33	13	-6.67
LTE Band 66	1.4	QPSK	23.36	5.78	13	-7.22
LTE Band 66	1.4	16QAM	22.60	6.42	13	-6.58
LTE Band 66	3	QPSK	23.36	5.84	13	-7.16
LTE Band 66	3	16QAM	22.54	6.50	13	-6.50
LTE Band 66	5	QPSK	23.36	5.87	13	-7.13
LTE Band 66	5	16QAM	22.56	6.44	13	-6.56
LTE Band 66	10	QPSK	23.36	5.73	13	-7.27
LTE Band 66	10	16QAM	22.62	6.34	13	-6.66
LTE Band 66	15	QPSK	23.39	6.05	13	-6.95
LTE Band 66	15	16QAM	22.64	6.34	13	-6.66
LTE Band 66	20	QPSK	23.51	5.69	13	-7.31
LTE Band 66	20	16QAM	22.59	6.35	13	-6.65
LTE Band 2	1.4	QPSK	23.10	5.76	13	-7.24
LTE Band 2	1.4	16QAM	22.34	6.42	13	-6.58
LTE Band 2	3	QPSK	23.14	5.84	13	-7.16
LTE Band 2	3	16QAM	22.27	6.52	13	-6.48
LTE Band 2	5	QPSK	23.16	5.86	13	-7.14
LTE Band 2	5	16QAM	22.30	6.46	13	-6.54
LTE Band 2	10	QPSK	23.09	5.68	13	-7.32
LTE Band 2	10	16QAM	22.30	6.27	13	-6.73
LTE Band 2	15	QPSK	23.07	6.07	13	-6.93
LTE Band 2	15	16QAM	22.33	6.30	13	-6.70
LTE Band 2	20	QPSK	23.41	5.79	13	-7.21
LTE Band 2	20	16QAM	22.38	6.25	13	-6.75
LTE Band 25	1.4	QPSK	23.10	5.76	13	-7.24
LTE Band 25	1.4	16QAM	22.40	6.44	13	-6.56
LTE Band 25	3	QPSK	23.08	5.84	13	-7.16
LTE Band 25	3	16QAM	22.21	6.52	13	-6.48
LTE Band 25	5	QPSK	22.97	5.89	13	-7.11
LTE Band 25	5	16QAM	22.30	6.44	13	-6.56
LTE Band 25	10	QPSK	22.96	5.72	13	-7.28
LTE Band 25	10	16QAM	22.33	6.34	13	-6.66
LTE Band 25	15	QPSK	23.03	6.07	13	-6.93
LTE Band 25	15	16QAM	22.17	6.33	13	-6.67
LTE Band 25	20	QPSK	23.22	5.81	13	-7.19
LTE Band 25	20	16QAM	22.22	6.24	13	-6.76

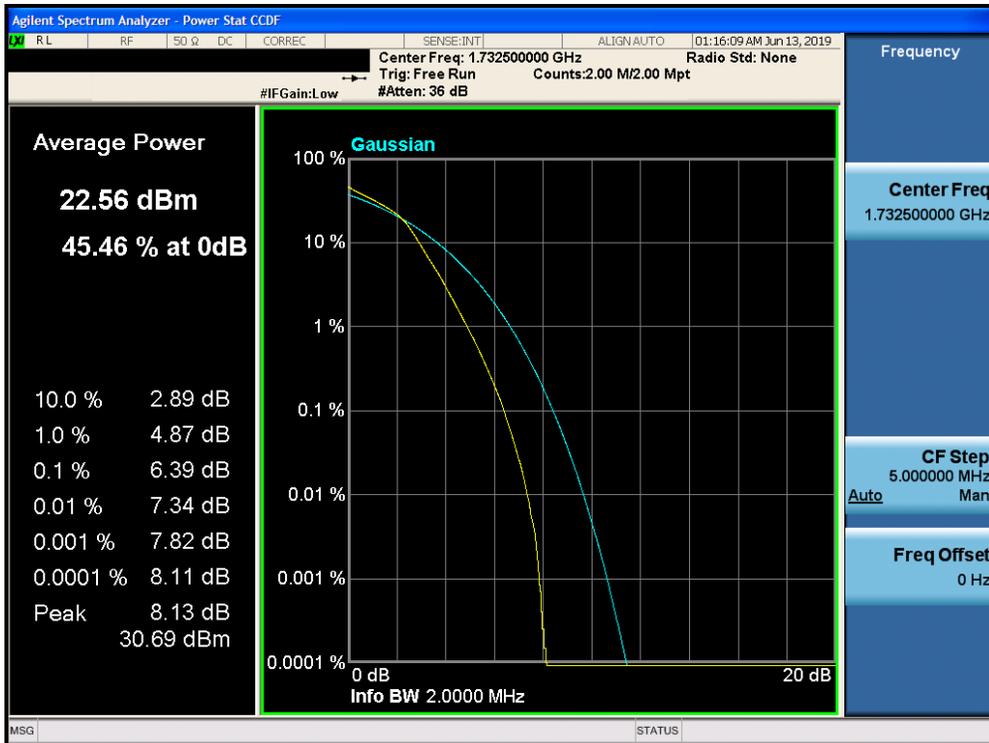
Table 7-6. PAR Results (Mid Bands)

FCC ID: BCG-A2095			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Band 4

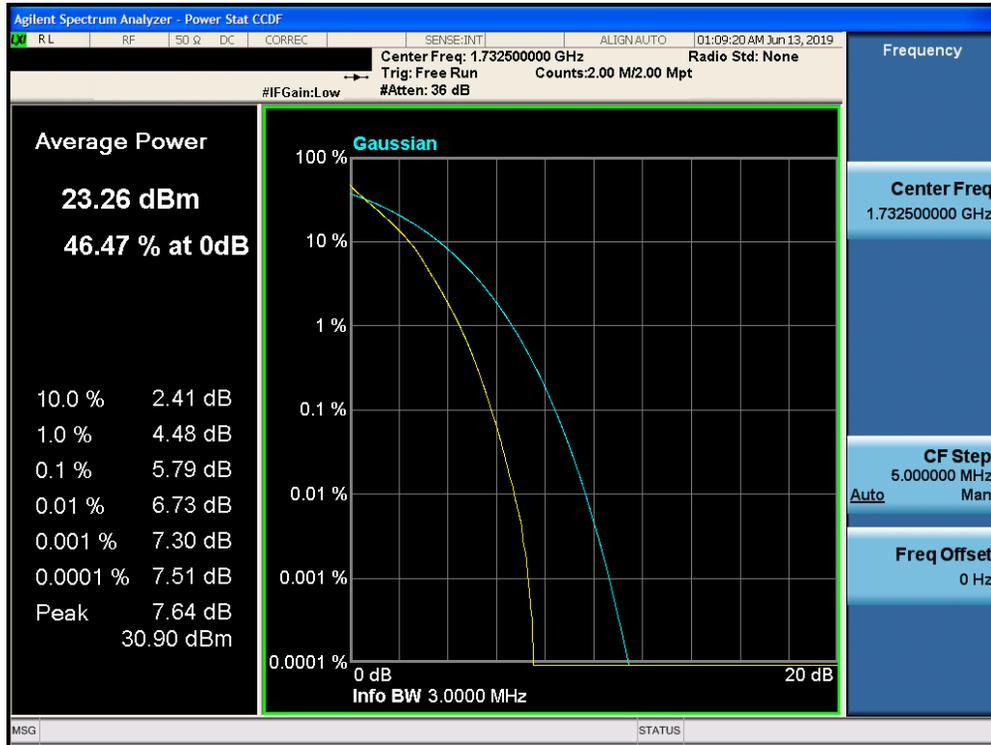


Plot 7-268. PAR Plot (Band 4 - 1.4.0MHz QPSK - Full RB Configuration)

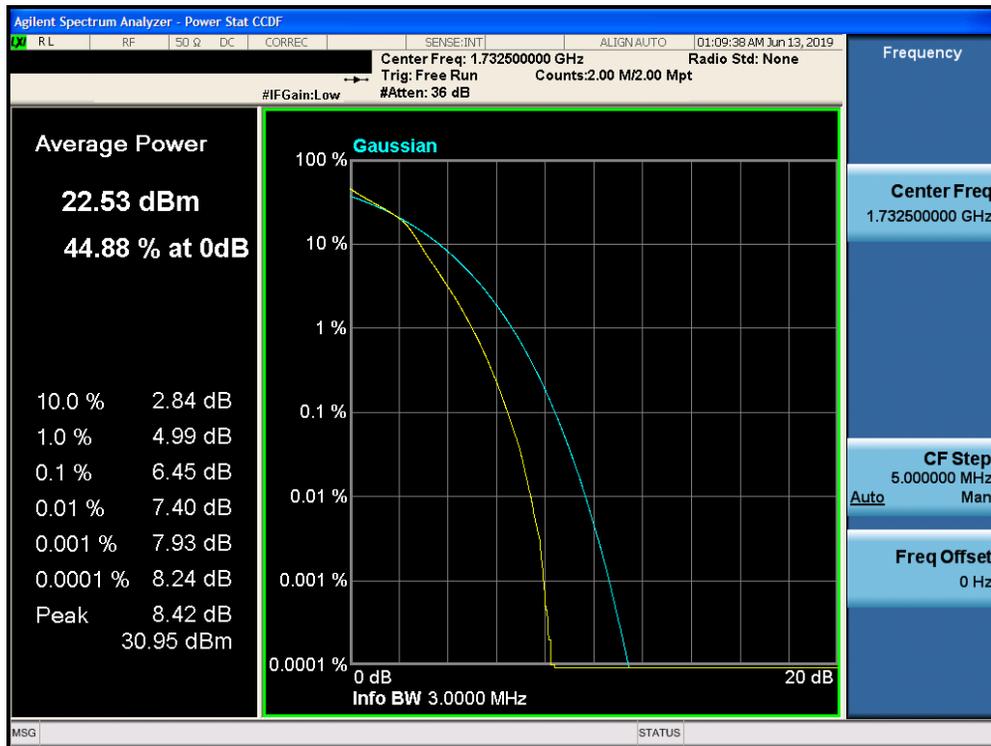


Plot 7-269. PAR Plot (Band 4 - 1.4.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A2095		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1905130010-03.BCG	Test Dates: 05/01/2019 - 08/15/2019	EUT Type: Watch	Page 165 of 235

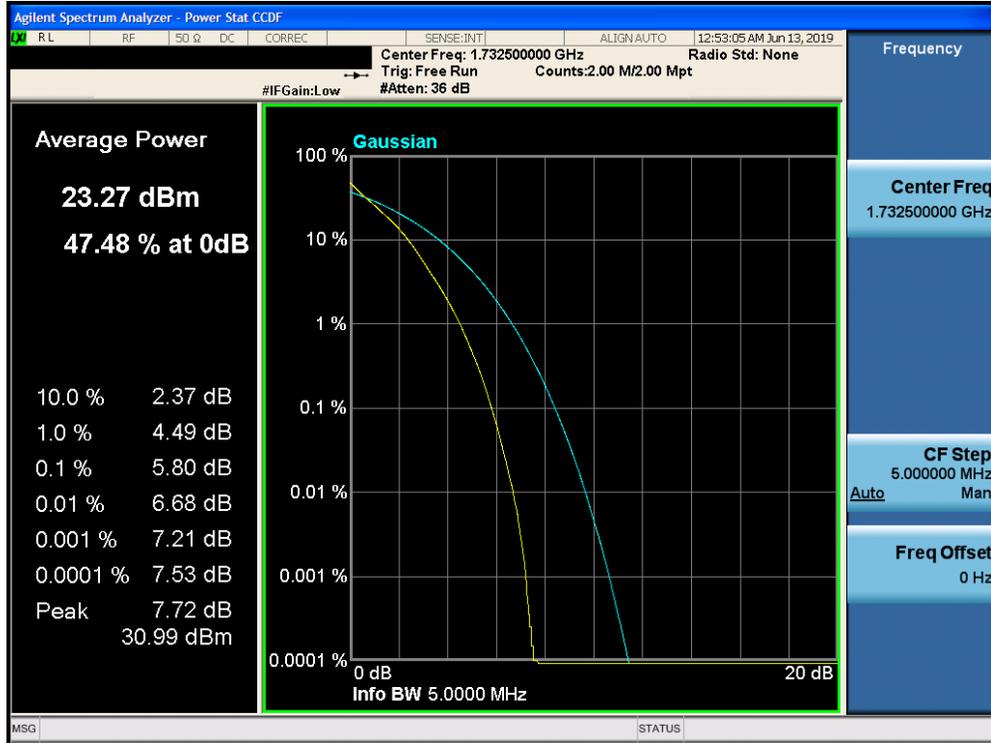


Plot 7-270. PAR Plot (Band 4 - 3.0MHz QPSK - Full RB Configuration)

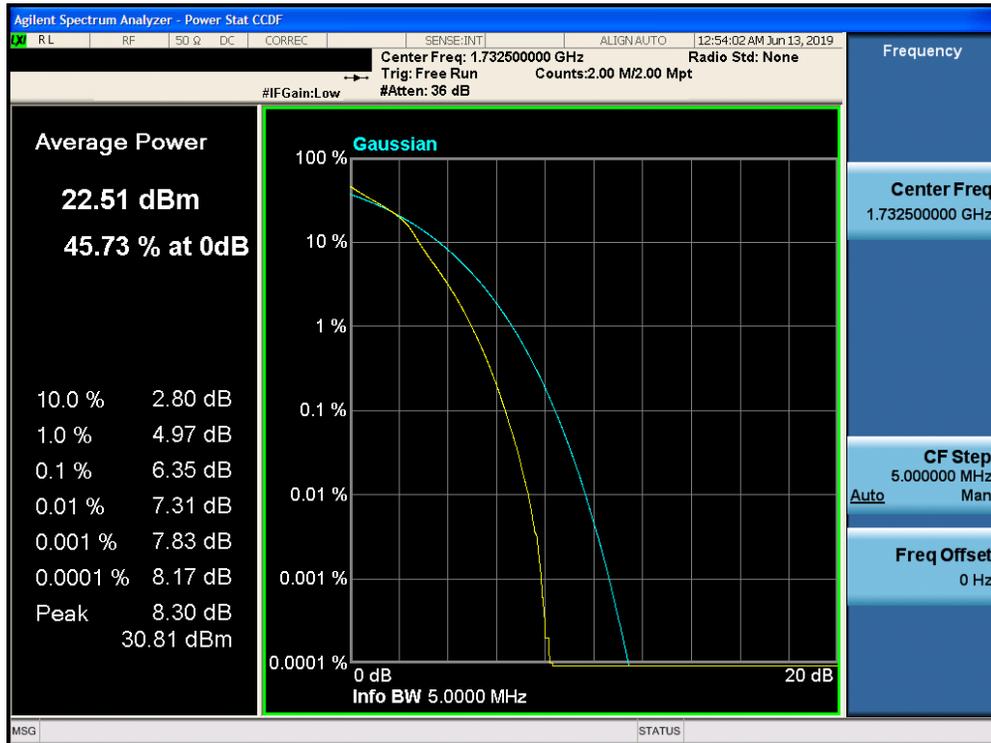


Plot 7-271. PAR Plot (Band 4 - 3.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A2095		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1905130010-03.BCG	Test Dates: 05/01/2019 - 08/15/2019	EUT Type: Watch	Page 166 of 235

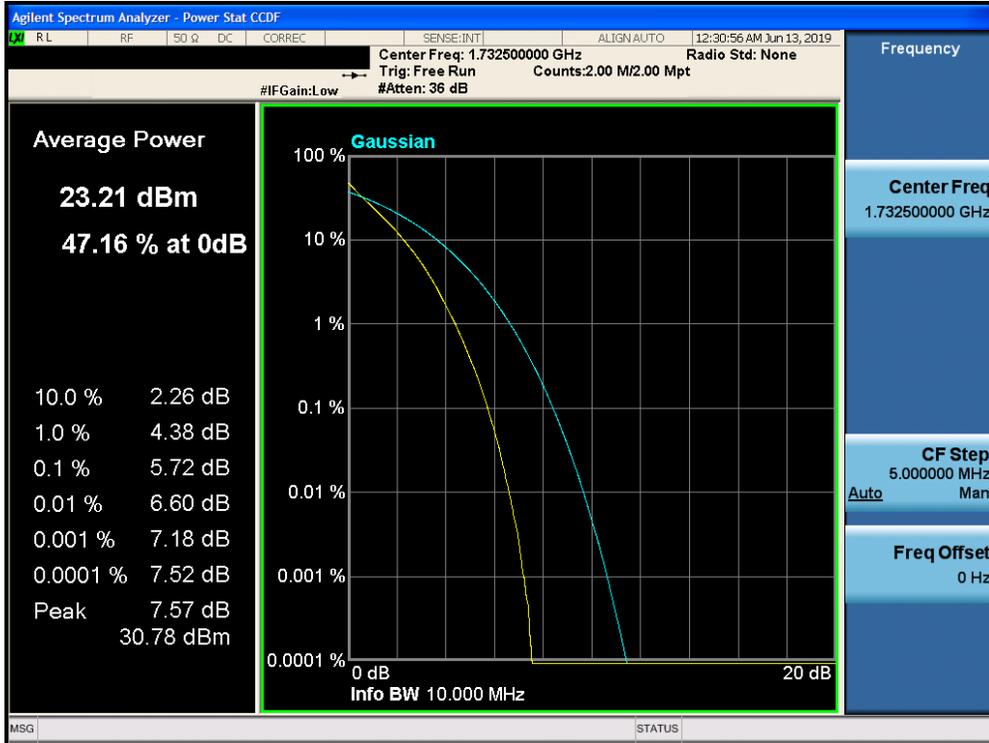


Plot 7-272. PAR Plot (Band 4 - 5.0MHz QPSK - Full RB Configuration)

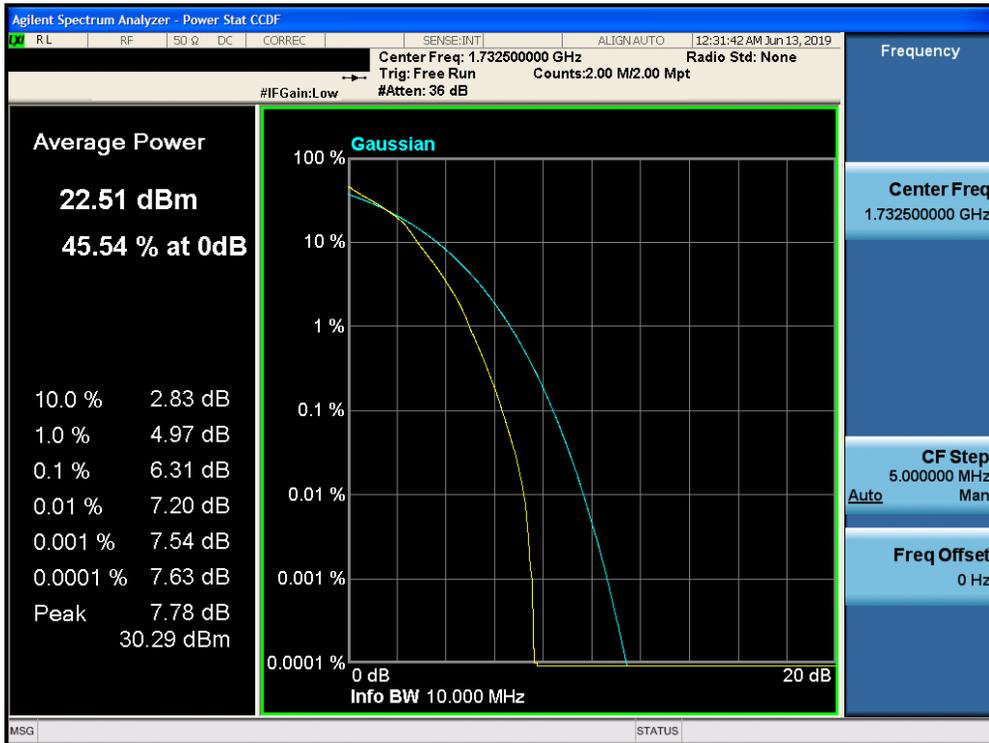


Plot 7-273. PAR Plot (Band 4 - 5.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A2095		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1905130010-03.BCG	Test Dates: 05/01/2019 - 08/15/2019	EUT Type: Watch	Page 167 of 235

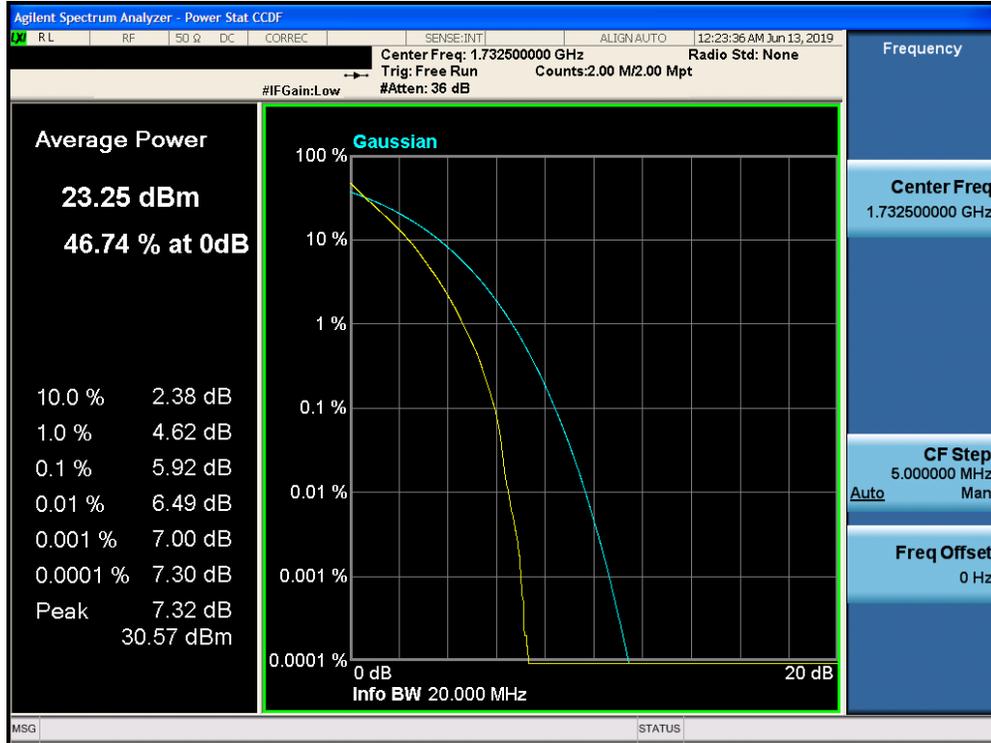


Plot 7-274. PAR Plot (Band 4 - 10.0MHz QPSK - Full RB Configuration)

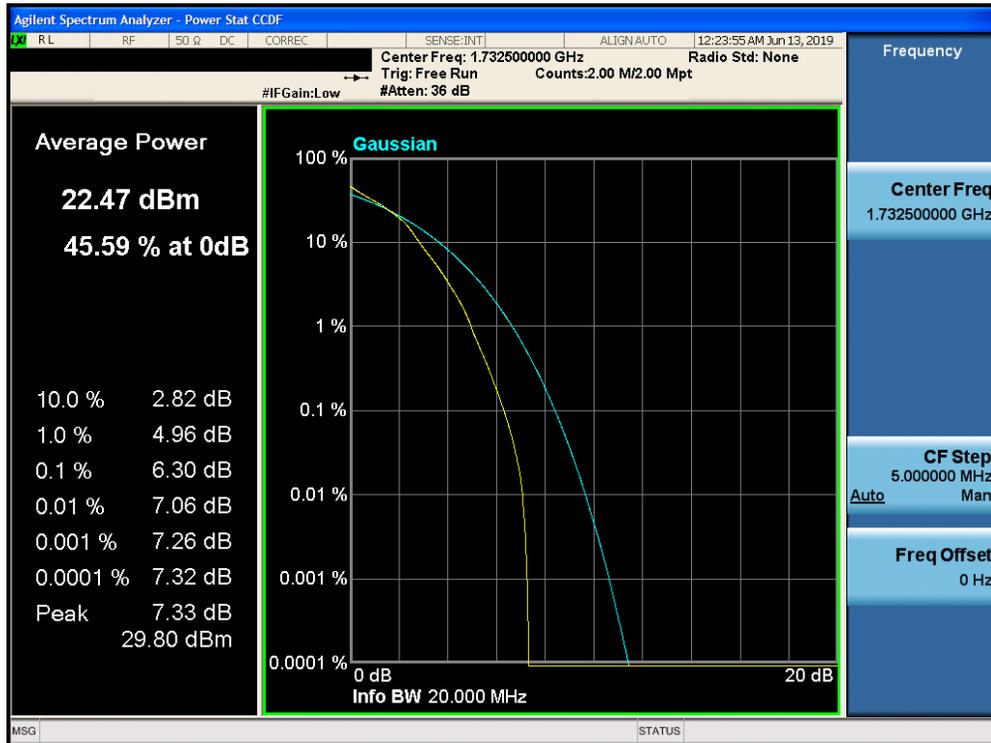


Plot 7-275. PAR Plot (Band 4 - 10.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A2095		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1905130010-03.BCG	Test Dates: 05/01/2019 - 08/15/2019	EUT Type: Watch	Page 168 of 235

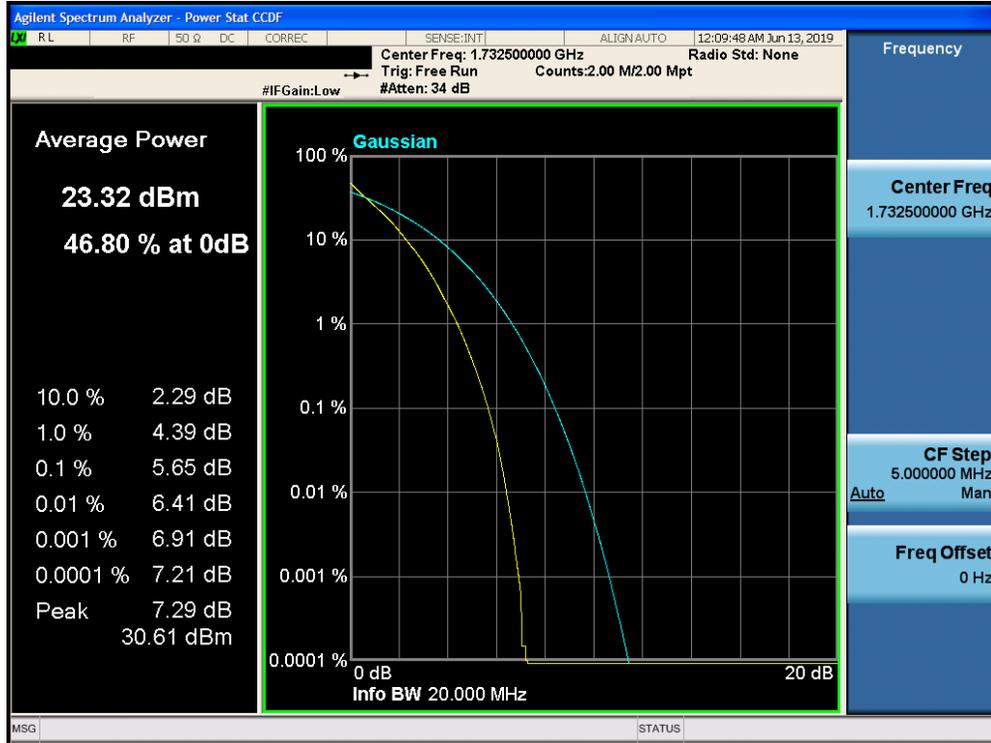


Plot 7-276. PAR Plot (Band 4 - 15.0MHz QPSK - Full RB Configuration)

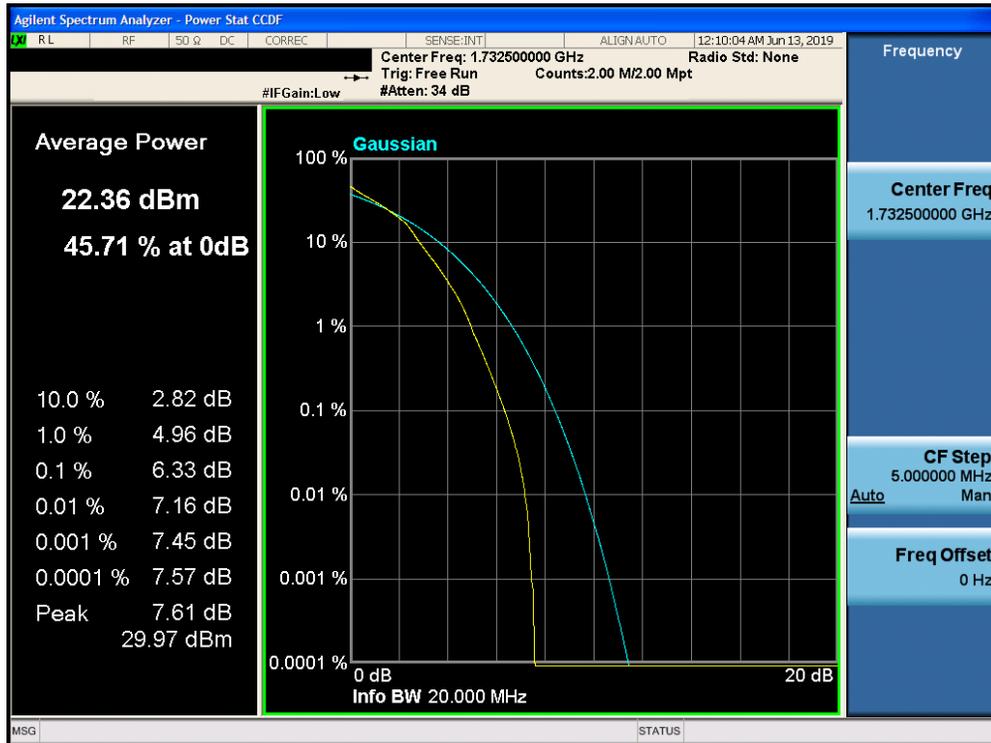


Plot 7-277. PAR Plot (Band 4 - 15.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A2095		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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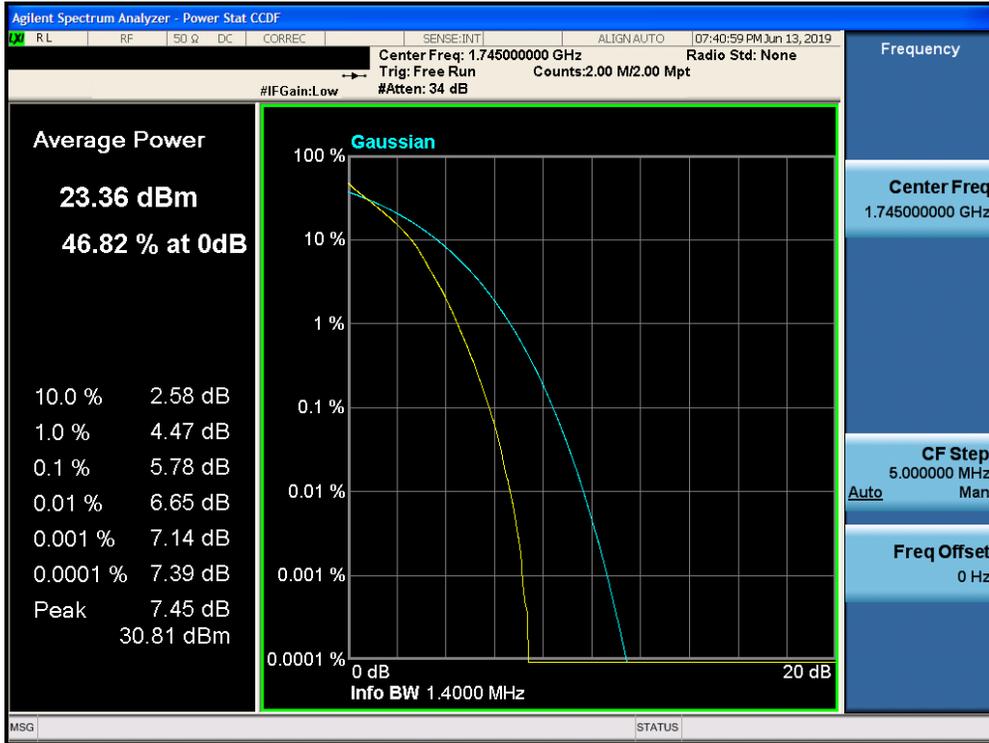
Plot 7-278. PAR Plot (Band 4 - 20.0MHz QPSK - Full RB Configuration)



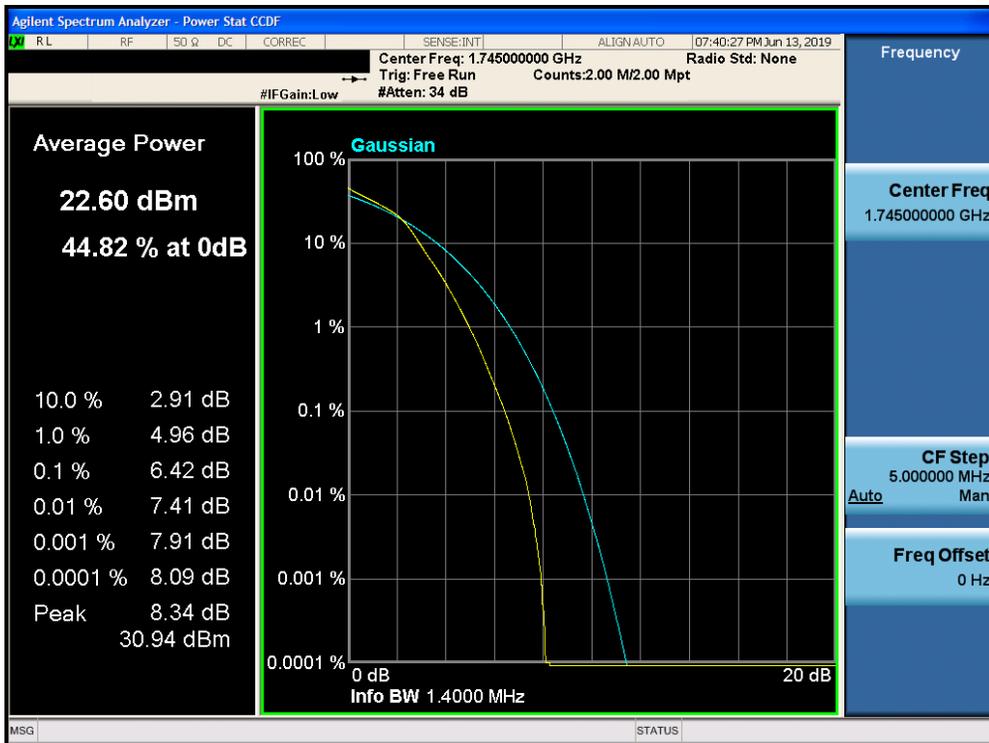
Plot 7-279. PAR Plot (Band 4 - 20.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A2095		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1905130010-03.BCG	Test Dates: 05/01/2019 - 08/15/2019	EUT Type: Watch	Page 170 of 235

Band 66

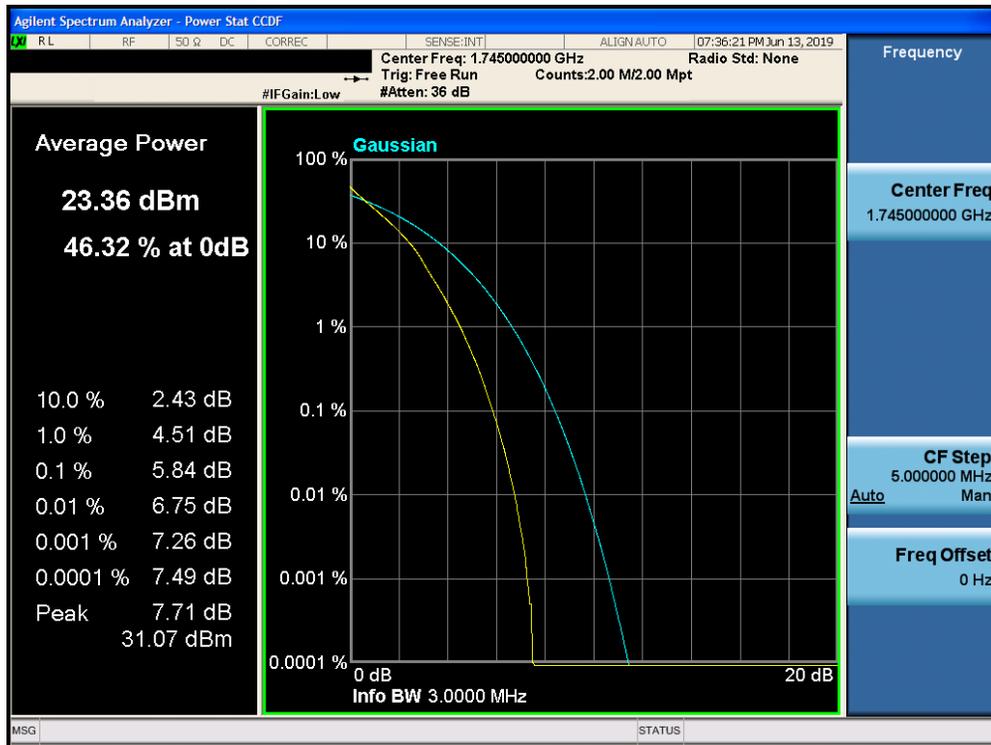


Plot 7-280. PAR Plot (Band 66 - 1.4.0MHz QPSK - Full RB Configuration)

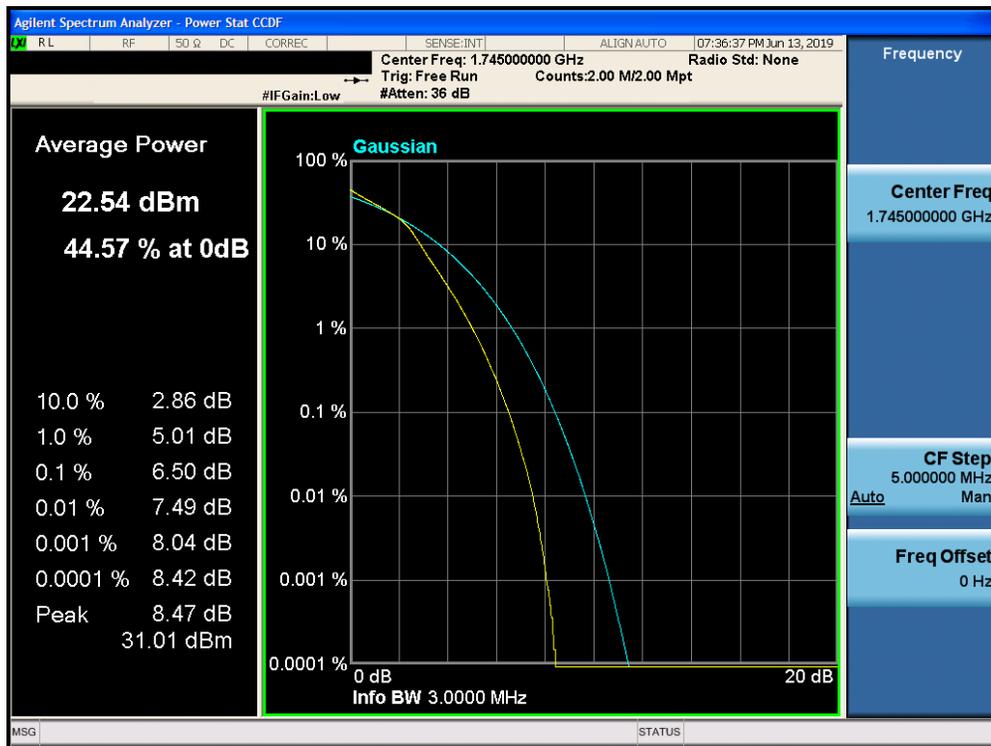


Plot 7-281. PAR Plot (Band 66 - 1.4.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A2095		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1905130010-03.BCG	Test Dates: 05/01/2019 - 08/15/2019	EUT Type: Watch	Page 171 of 235

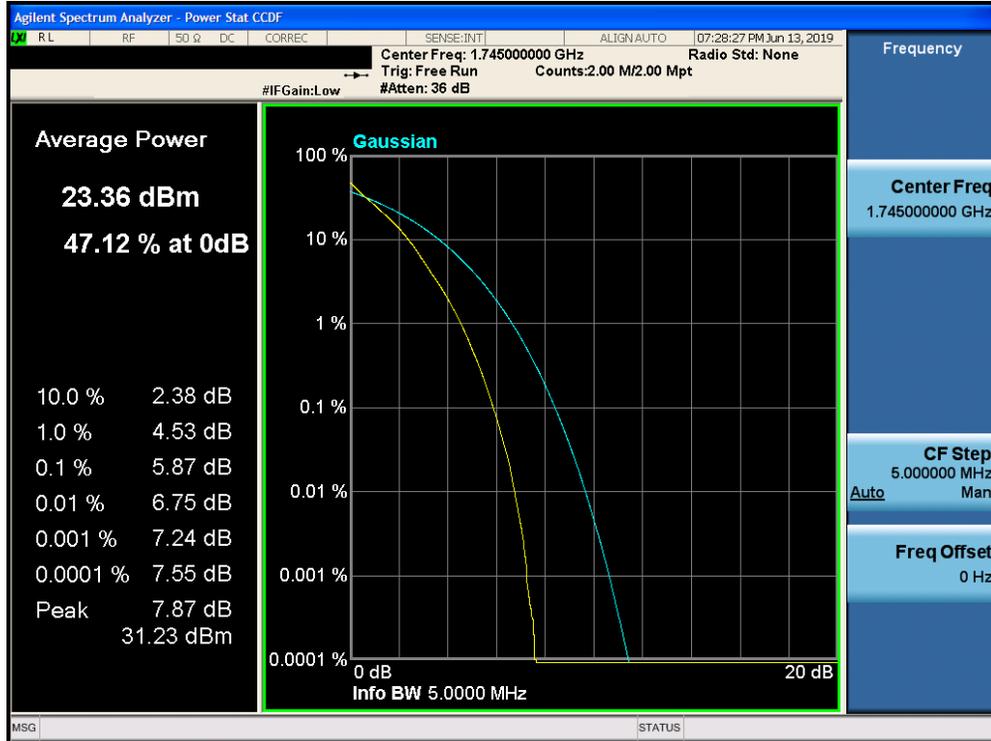


Plot 7-282. PAR Plot (Band 66 - 3.0MHz QPSK - Full RB Configuration)

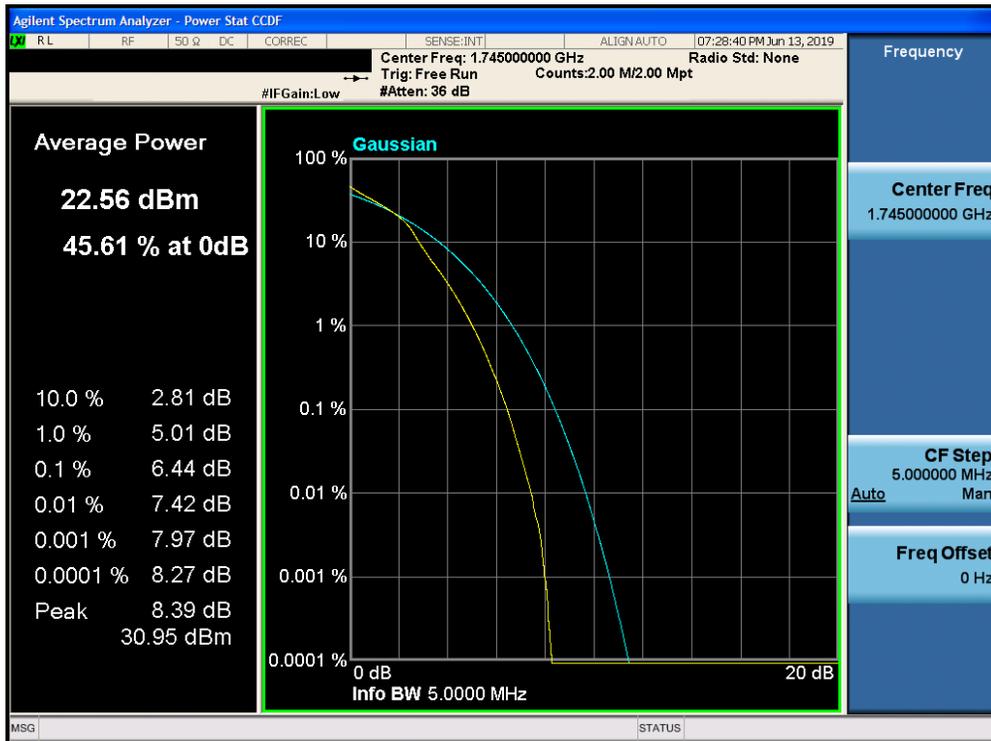


Plot 7-283. PAR Plot (Band 66 - 3.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A2095		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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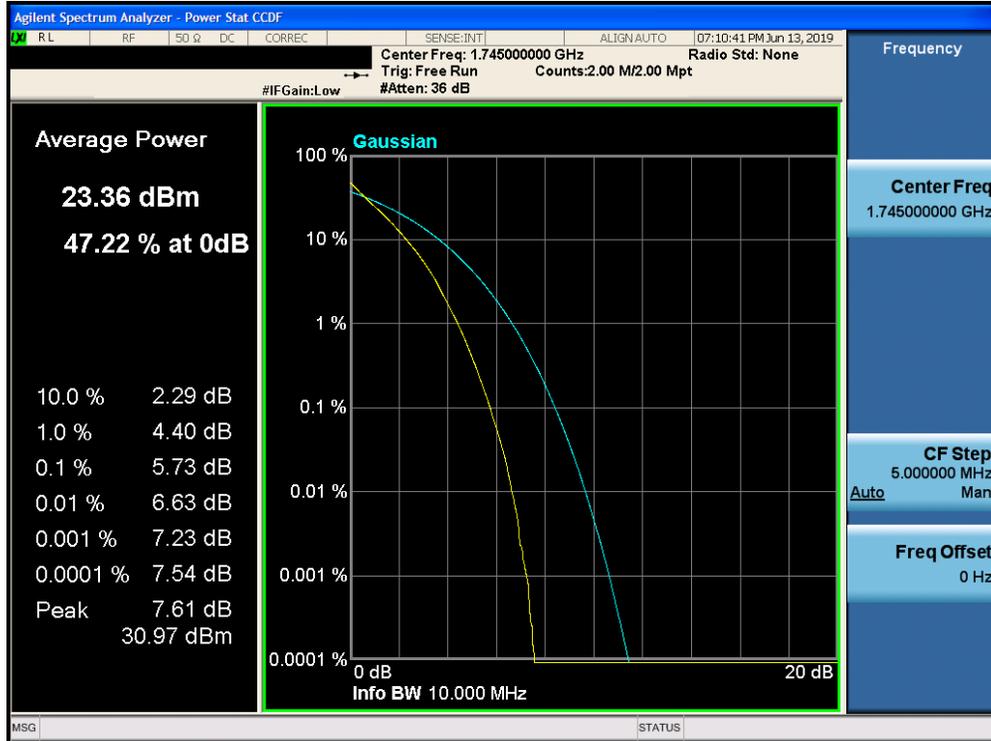


Plot 7-284. PAR Plot (Band 66 - 5.0MHz QPSK - Full RB Configuration)

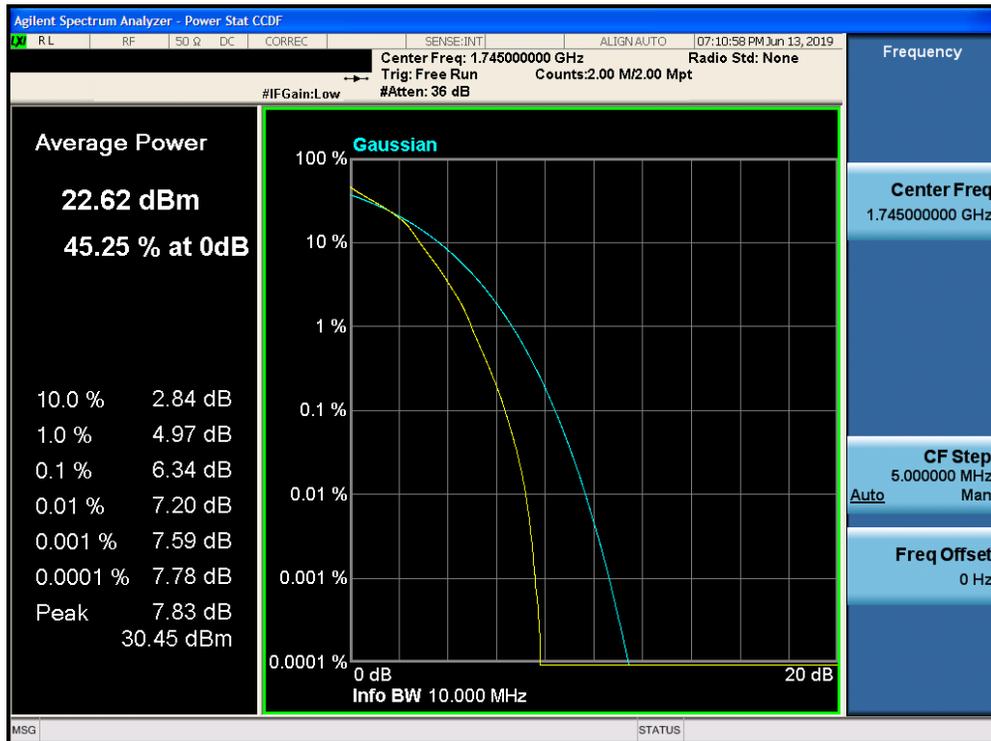


Plot 7-285. PAR Plot (Band 66 - 5.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A2095		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1905130010-03.BCG	Test Dates: 05/01/2019 - 08/15/2019	EUT Type: Watch	Page 173 of 235

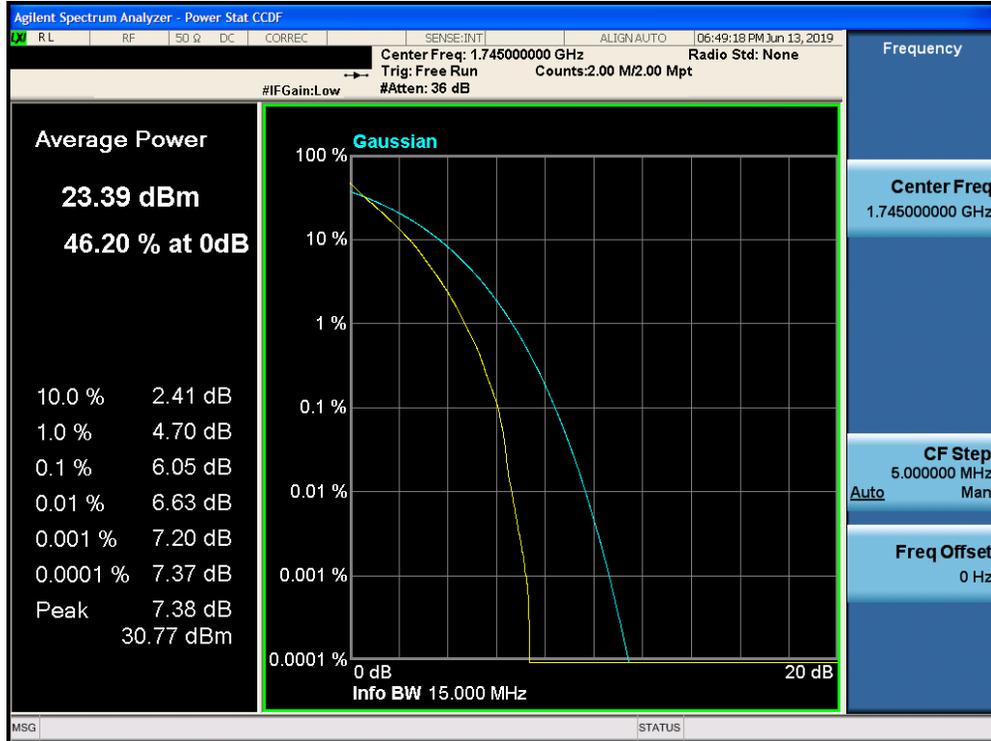


Plot 7-286. PAR Plot (Band 66 - 10.0MHz QPSK - Full RB Configuration)

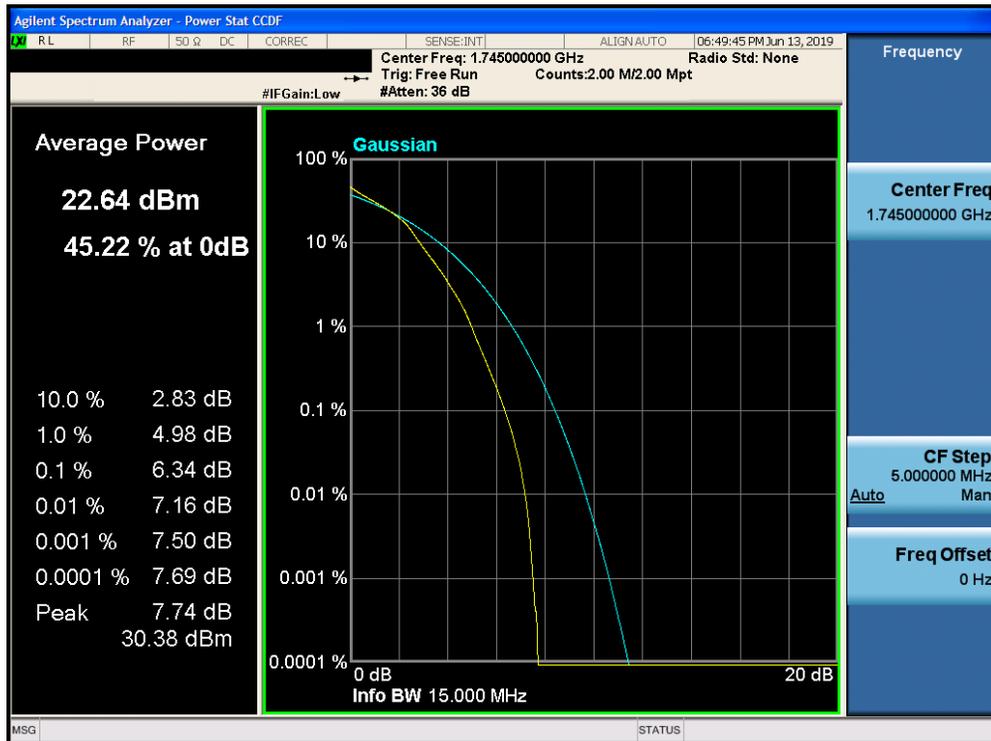


Plot 7-287. PAR Plot (Band 66 - 10.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A2095		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1905130010-03.BCG	Test Dates: 05/01/2019 - 08/15/2019	EUT Type: Watch	Page 174 of 235

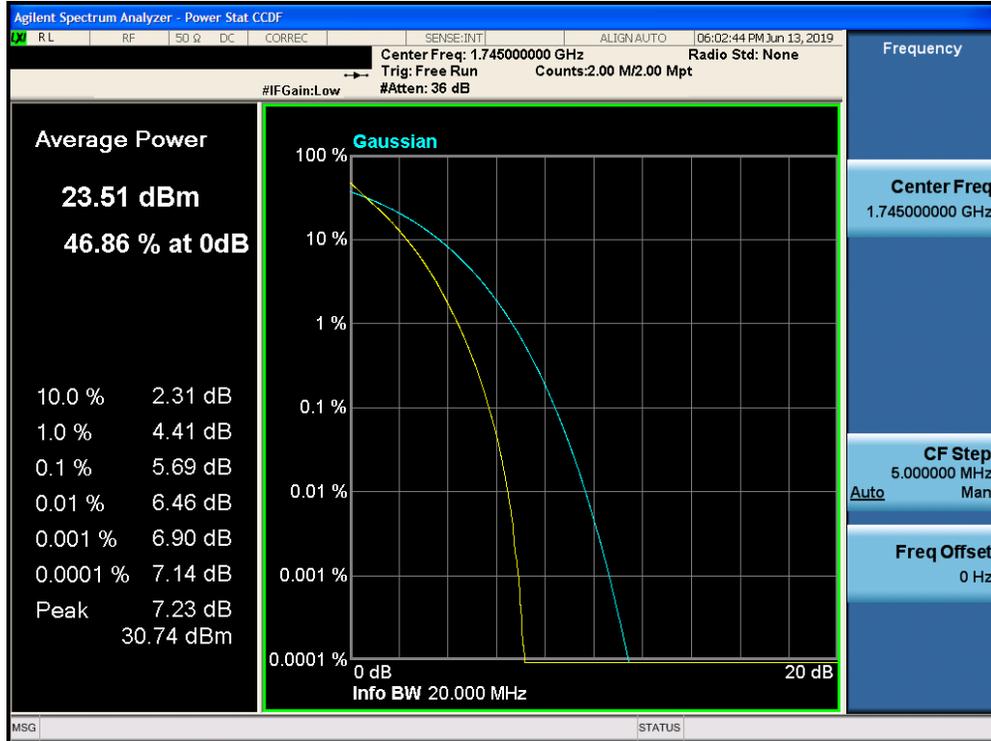


Plot 7-288. PAR Plot (Band 66 - 15.0MHz QPSK - Full RB Configuration)

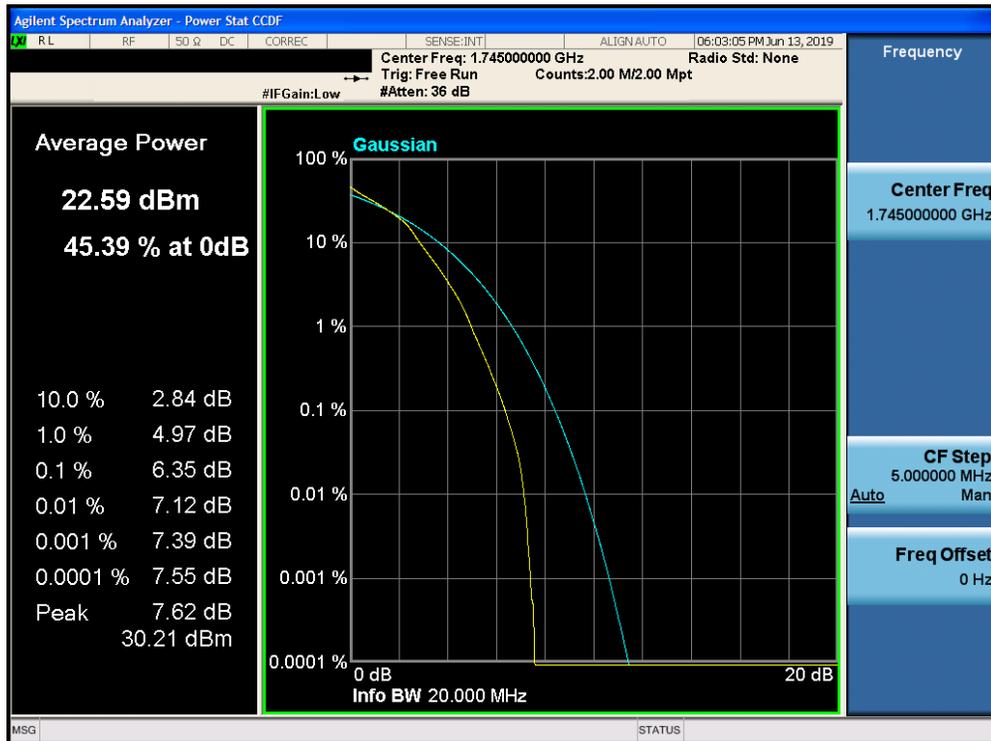


Plot 7-289. PAR Plot (Band 66 - 15.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A2095		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1905130010-03.BCG	Test Dates: 05/01/2019 - 08/15/2019	EUT Type: Watch	Page 175 of 235



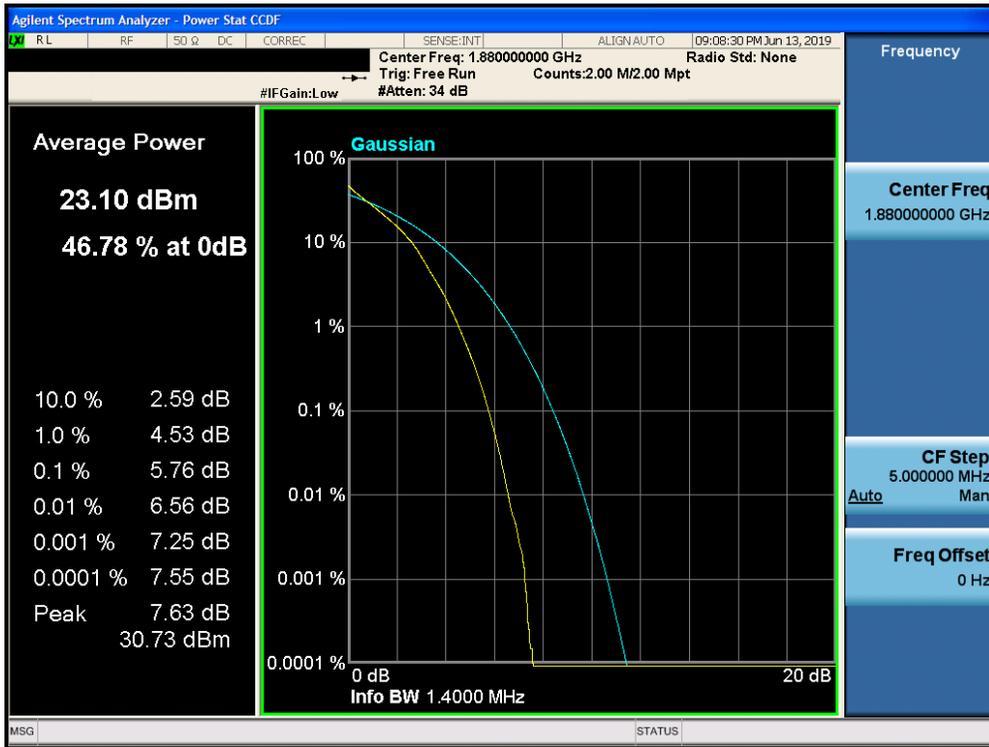
Plot 7-290. PAR Plot (Band 66 - 20.0MHz QPSK - Full RB Configuration)



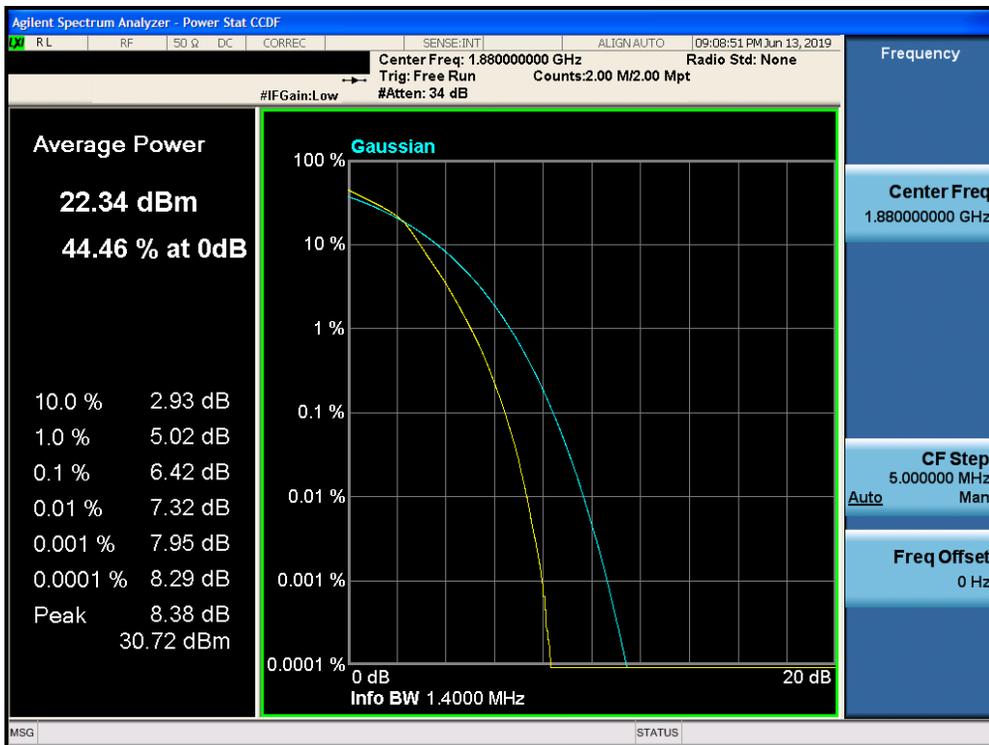
Plot 7-291. PAR Plot (Band 66 - 20.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A2095		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1905130010-03.BCG	Test Dates: 05/01/2019 - 08/15/2019	EUT Type: Watch	Page 176 of 235

Band 2

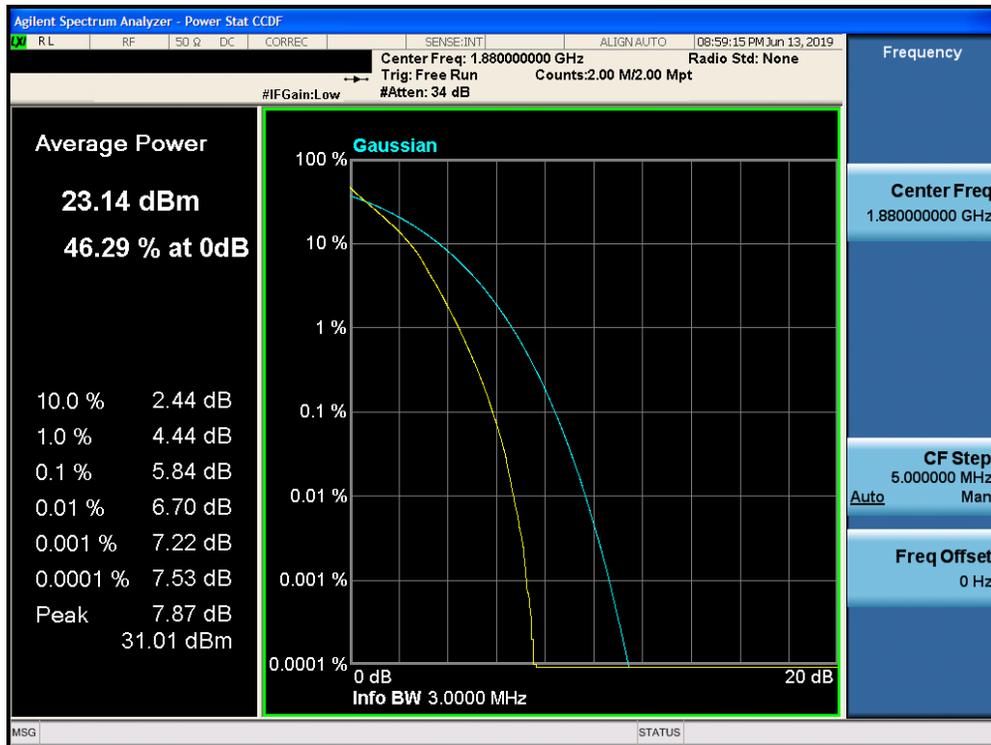


Plot 7-292. PAR Plot (Band 2 - 1.4.0MHz QPSK - Full RB Configuration)

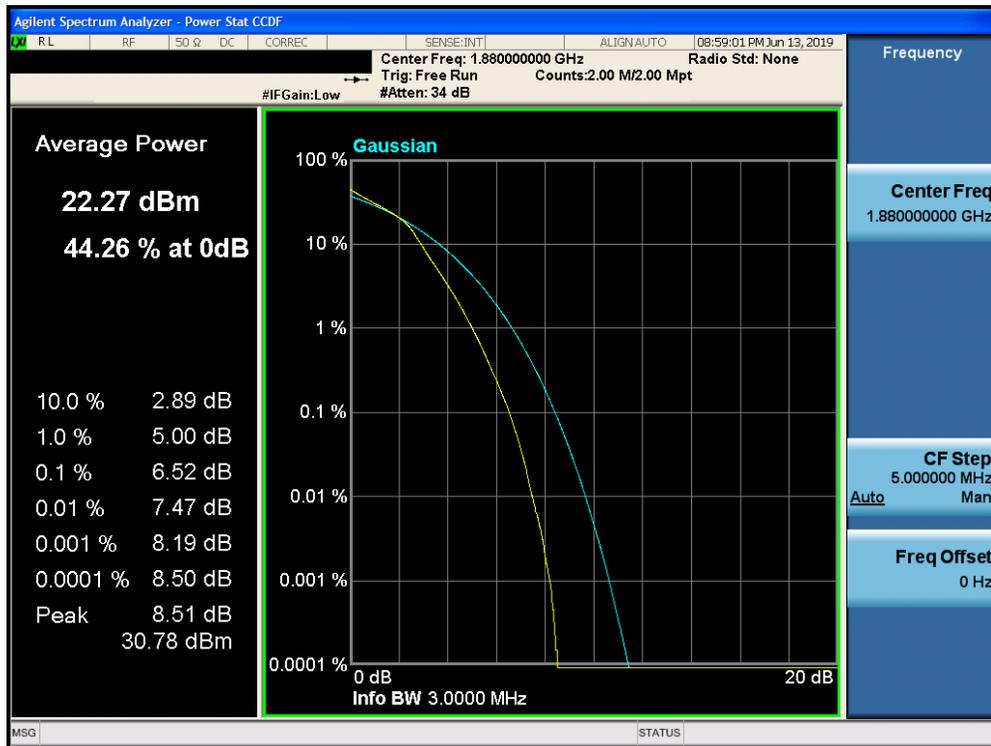


Plot 7-293. PAR Plot (Band 2 - 1.4.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A2095	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1905130010-03.BCG	Test Dates: 05/01/2019 - 08/15/2019	EUT Type: Watch	Page 177 of 235

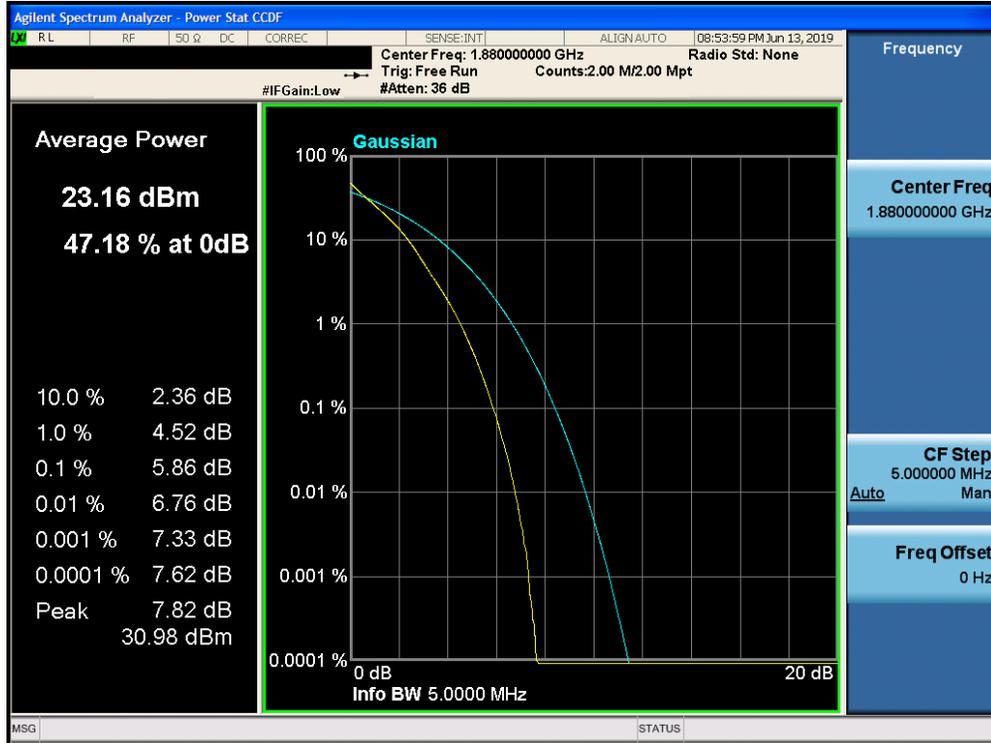


Plot 7-294. PAR Plot (Band 2 - 3.0MHz QPSK - Full RB Configuration)

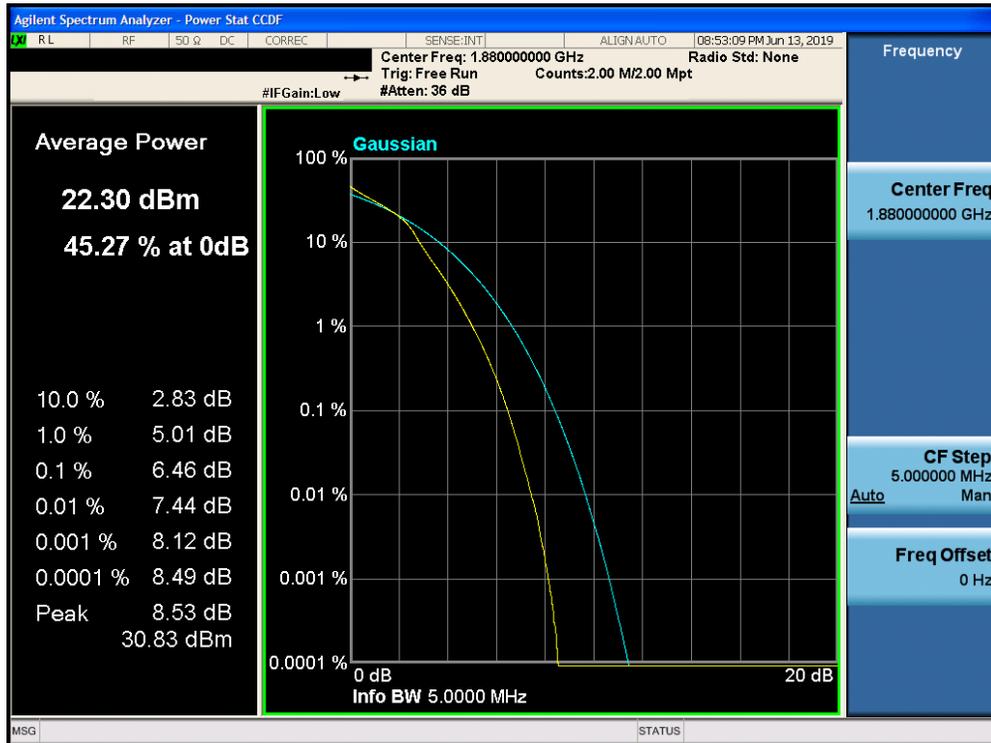


Plot 7-295. PAR Plot (Band 2 - 3.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A2095			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1905130010-03.BCG	Test Dates: 05/01/2019 - 08/15/2019	EUT Type: Watch		Page 178 of 235

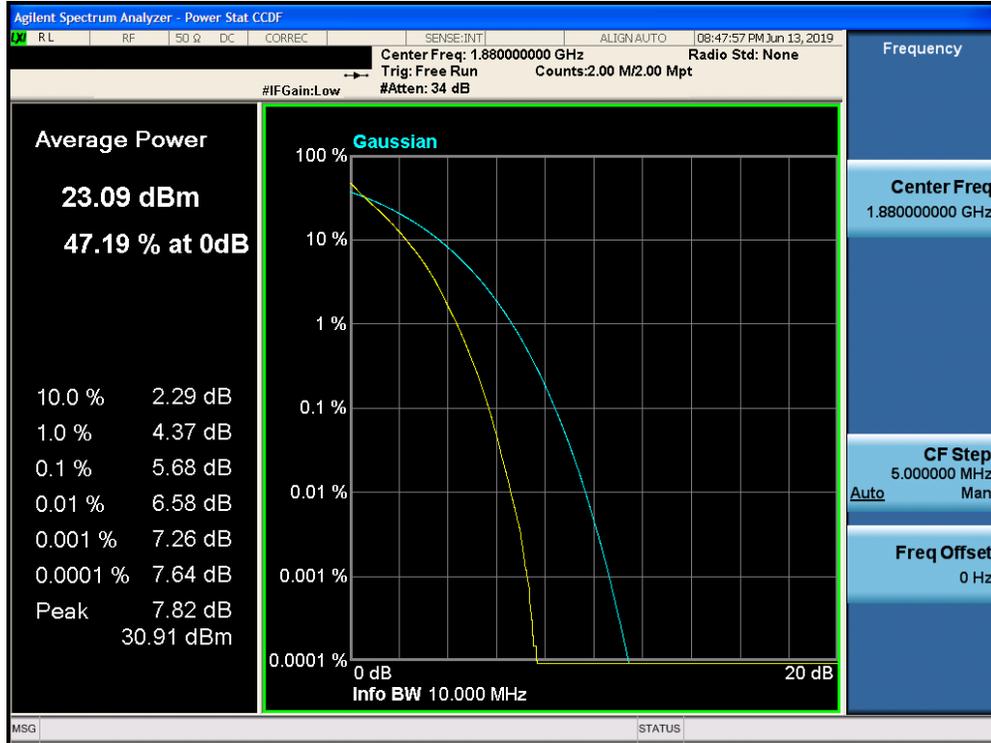


Plot 7-296. PAR Plot (Band 2 - 5.0MHz QPSK - Full RB Configuration)

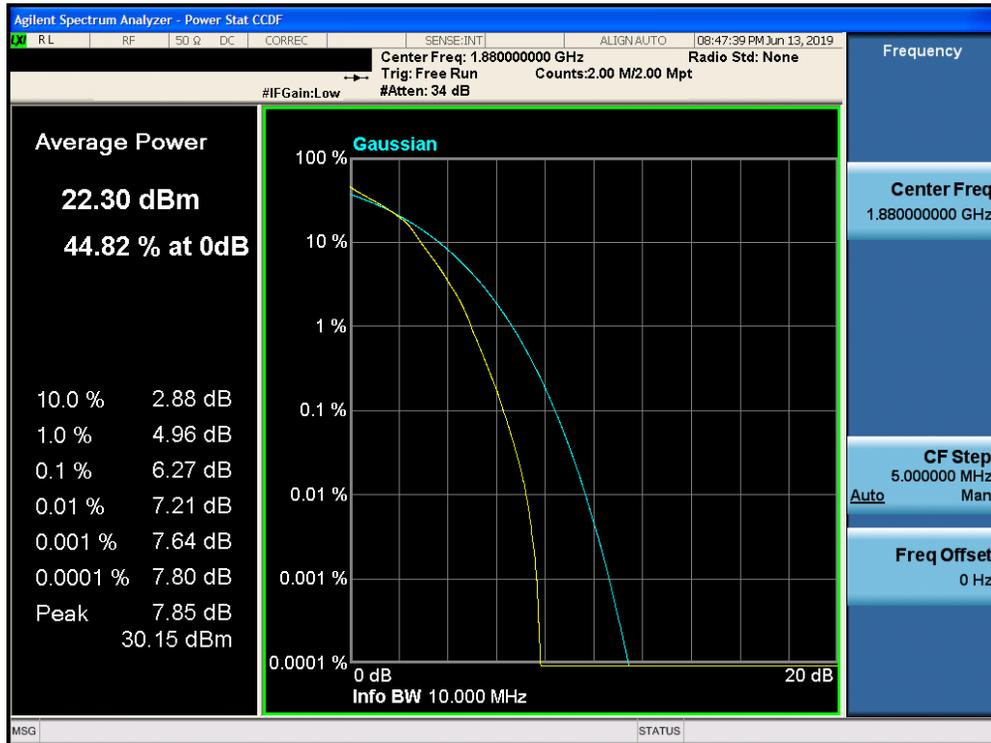


Plot 7-297. PAR Plot (Band 2 - 5.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A2095		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1905130010-03.BCG	Test Dates: 05/01/2019 - 08/15/2019	EUT Type: Watch	Page 179 of 235

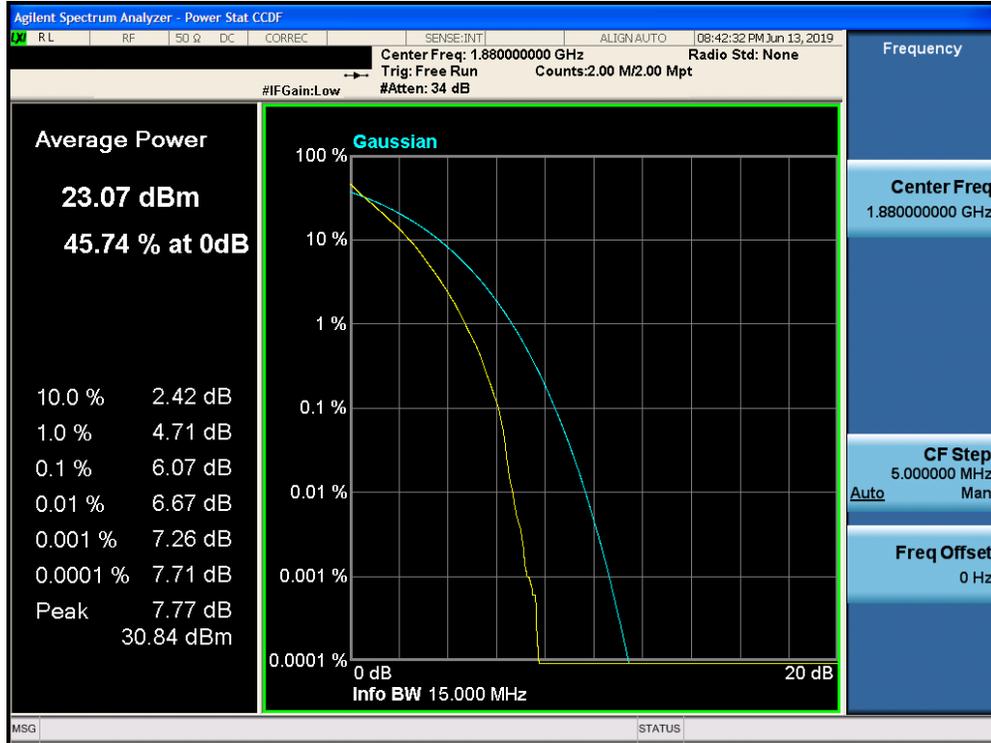


Plot 7-298. PAR Plot (Band 2 - 10.0MHz QPSK - Full RB Configuration)

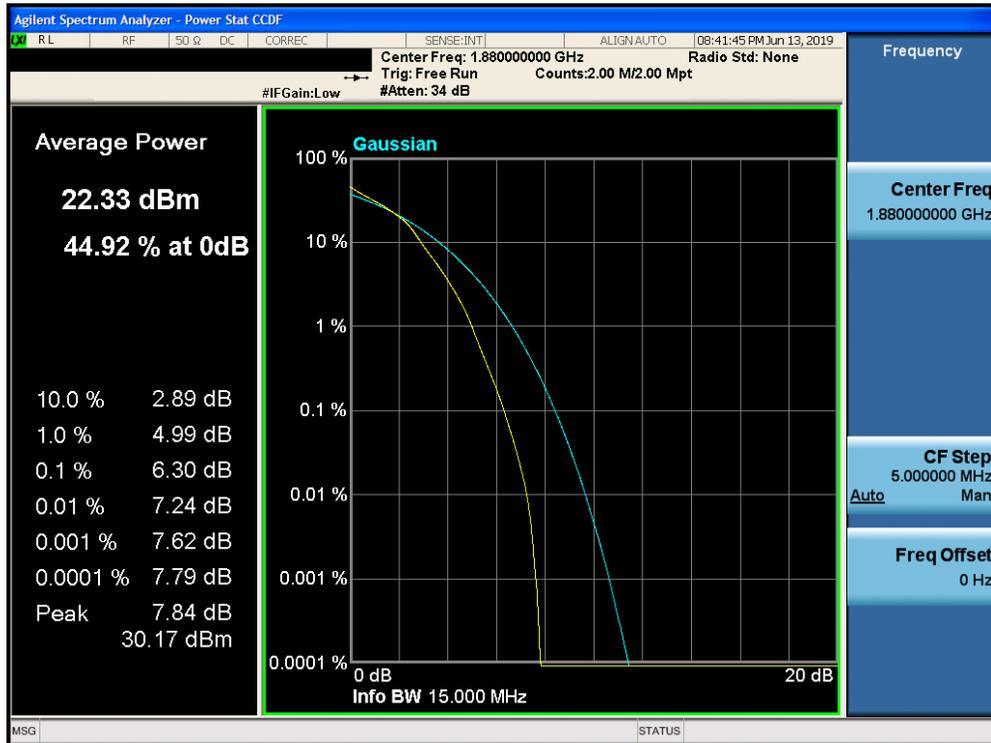


Plot 7-299. PAR Plot (Band 2 - 10.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A2095			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1905130010-03.BCG	Test Dates: 05/01/2019 - 08/15/2019	EUT Type: Watch		Page 180 of 235

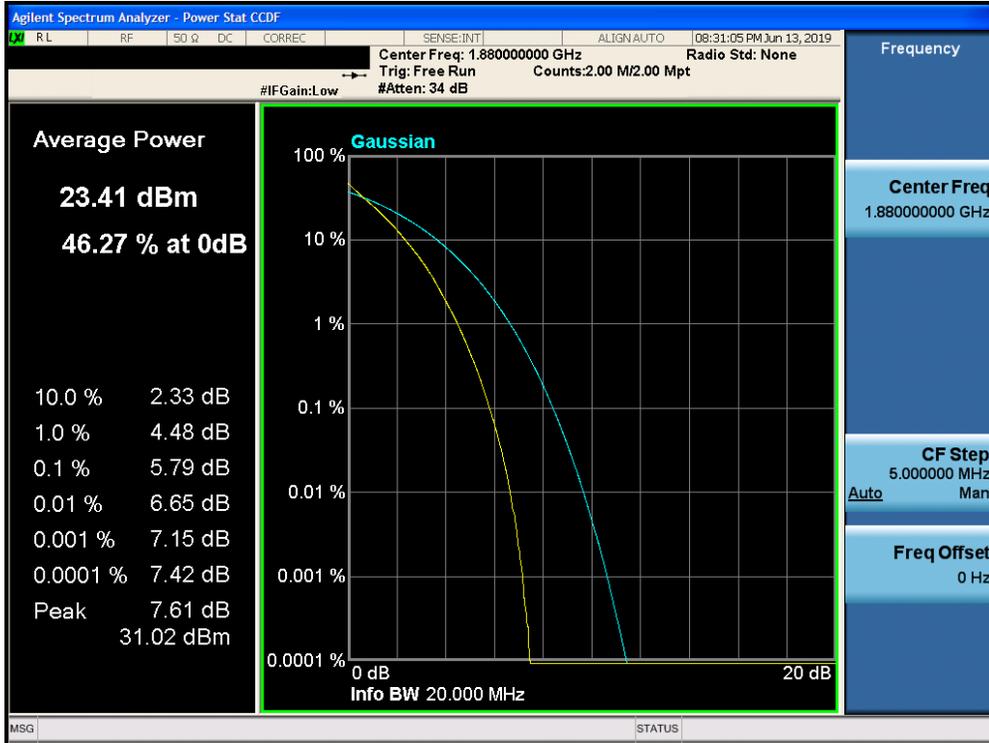


Plot 7-300. PAR Plot (Band 2 - 15.0MHz QPSK - Full RB Configuration)

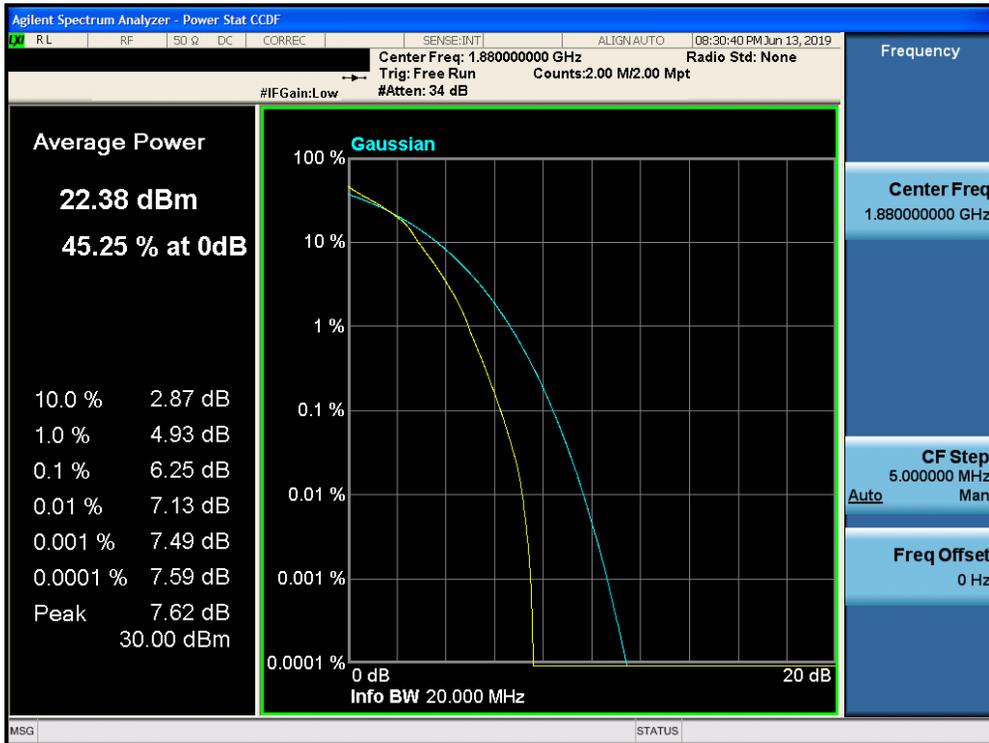


Plot 7-301. PAR Plot (Band 2 - 15.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A2095		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-302. PAR Plot (Band 2 - 20.0MHz QPSK - Full RB Configuration)



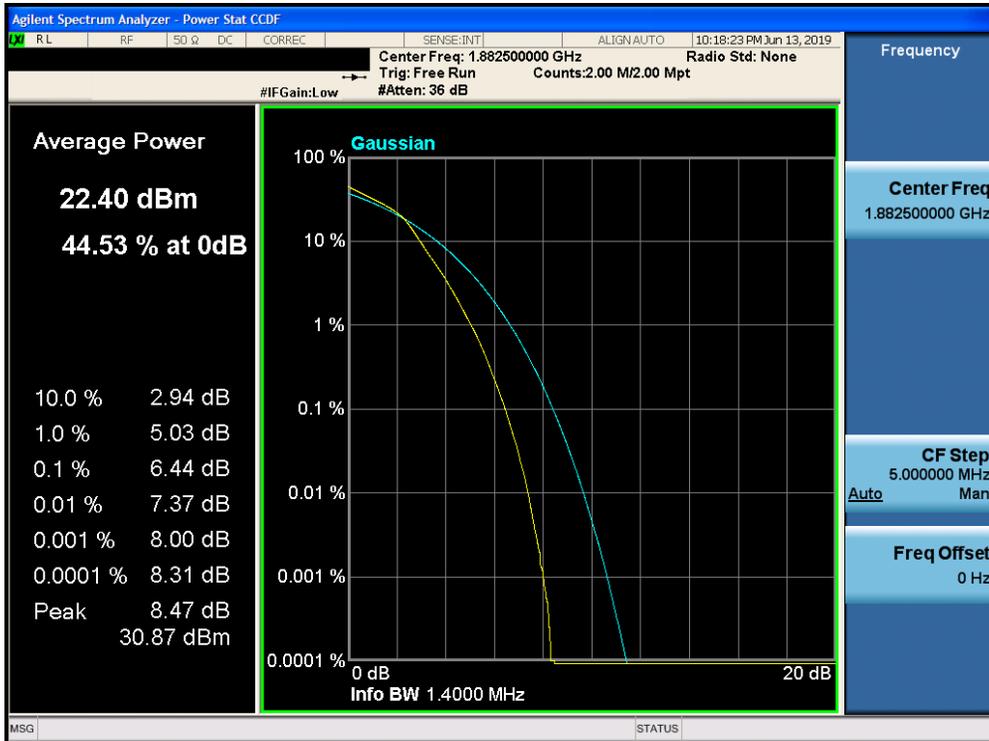
Plot 7-303. PAR Plot (Band 2 - 20.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A2095		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Band 25

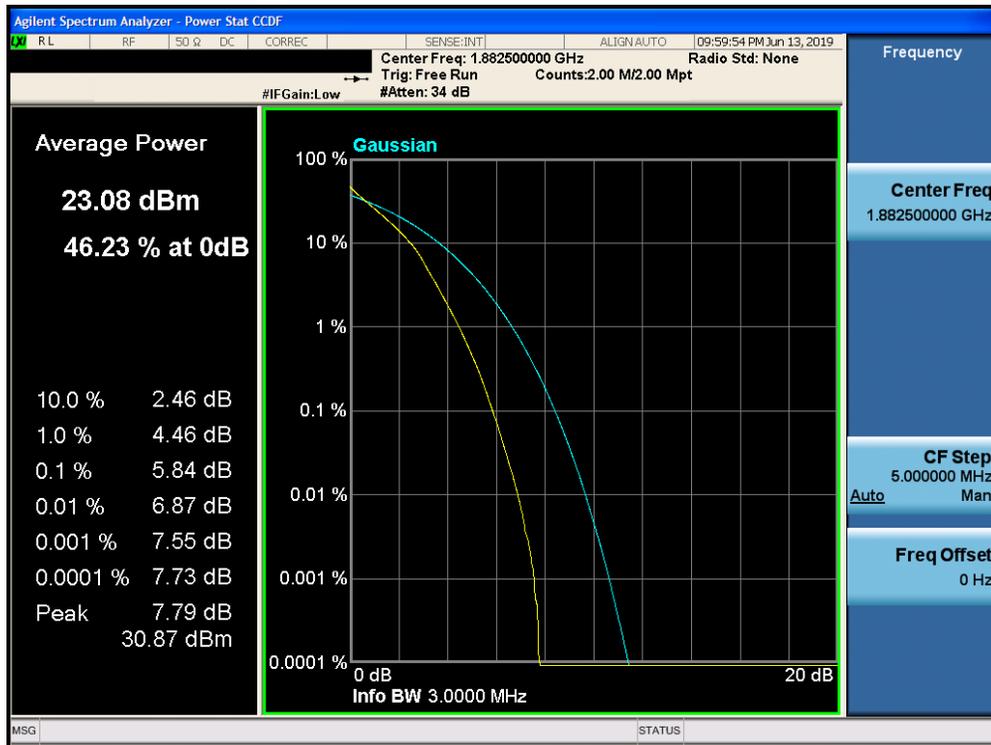


Plot 7-304. PAR Plot (Band 25 - 1.4.0MHz QPSK - Full RB Configuration)

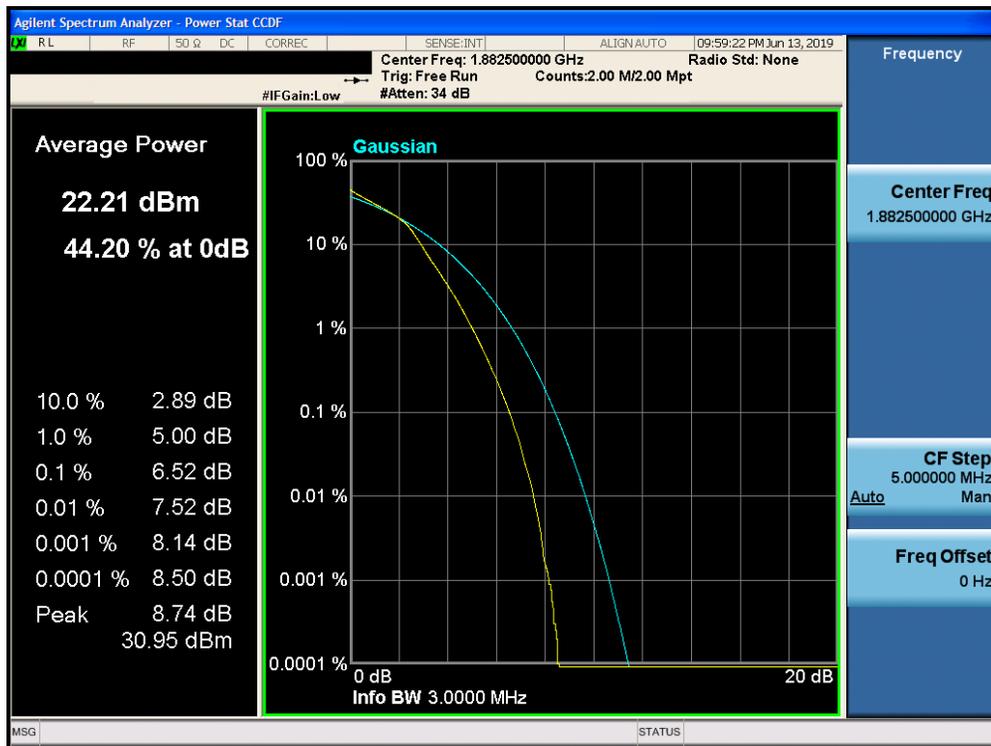


Plot 7-305. PAR Plot (Band 25 - 1.4.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A2095		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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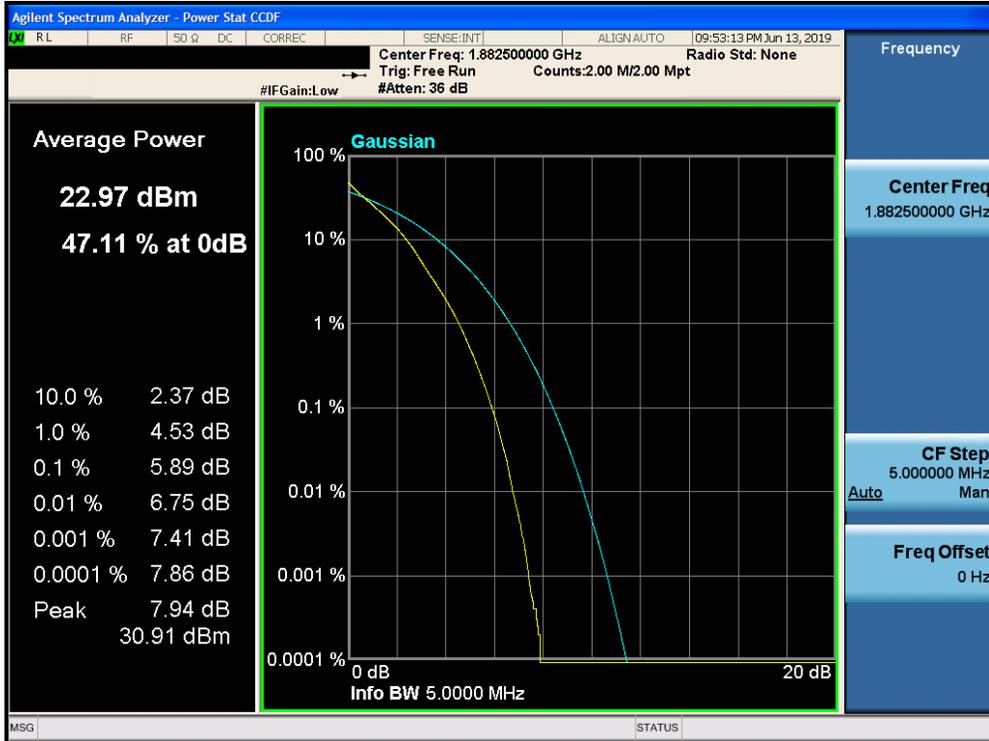


Plot 7-306. PAR Plot (Band 25 - 3.0MHz QPSK - Full RB Configuration)

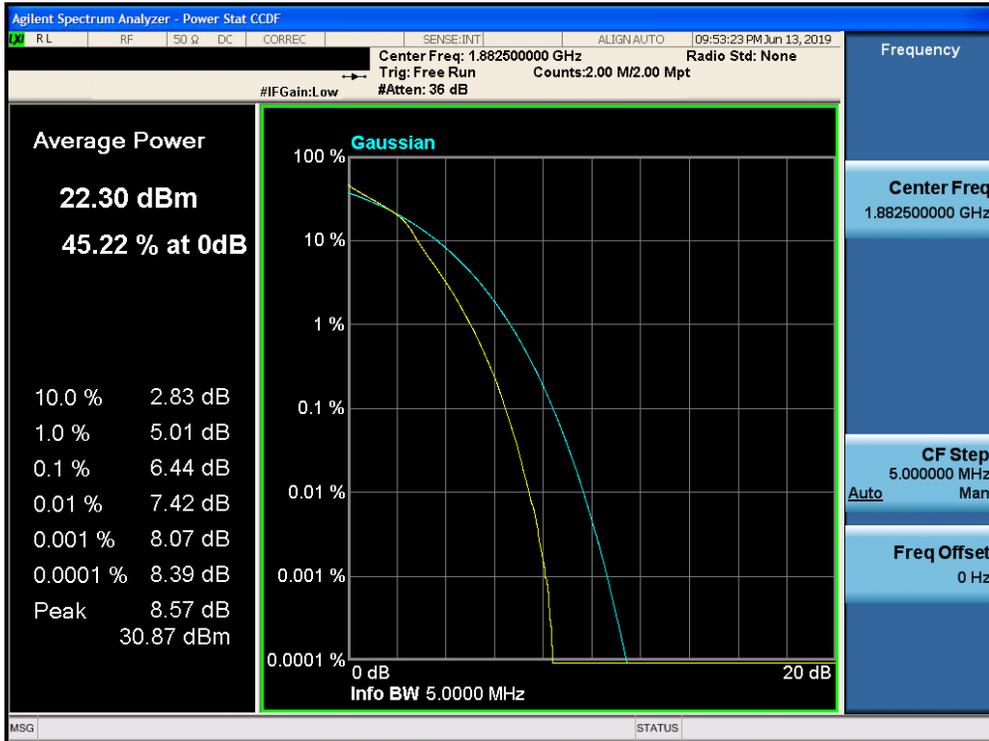


Plot 7-307. PAR Plot (Band 25 - 3.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A2095		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1905130010-03.BCG	Test Dates: 05/01/2019 - 08/15/2019	EUT Type: Watch	Page 184 of 235

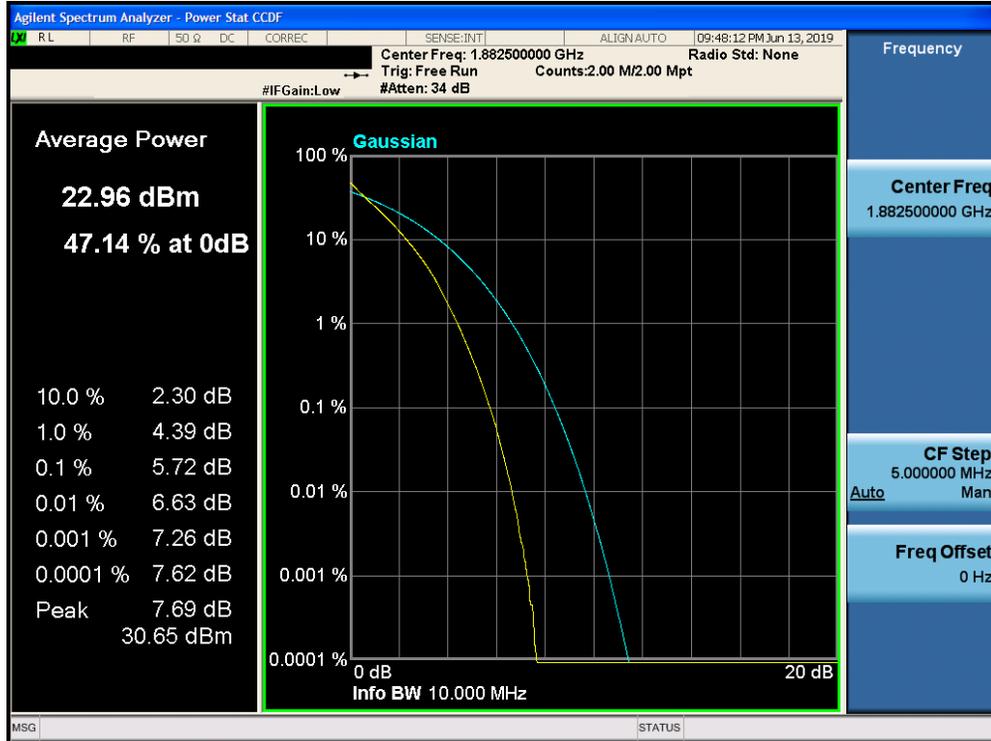


Plot 7-308. PAR Plot (Band 25 - 5.0MHz QPSK - Full RB Configuration)

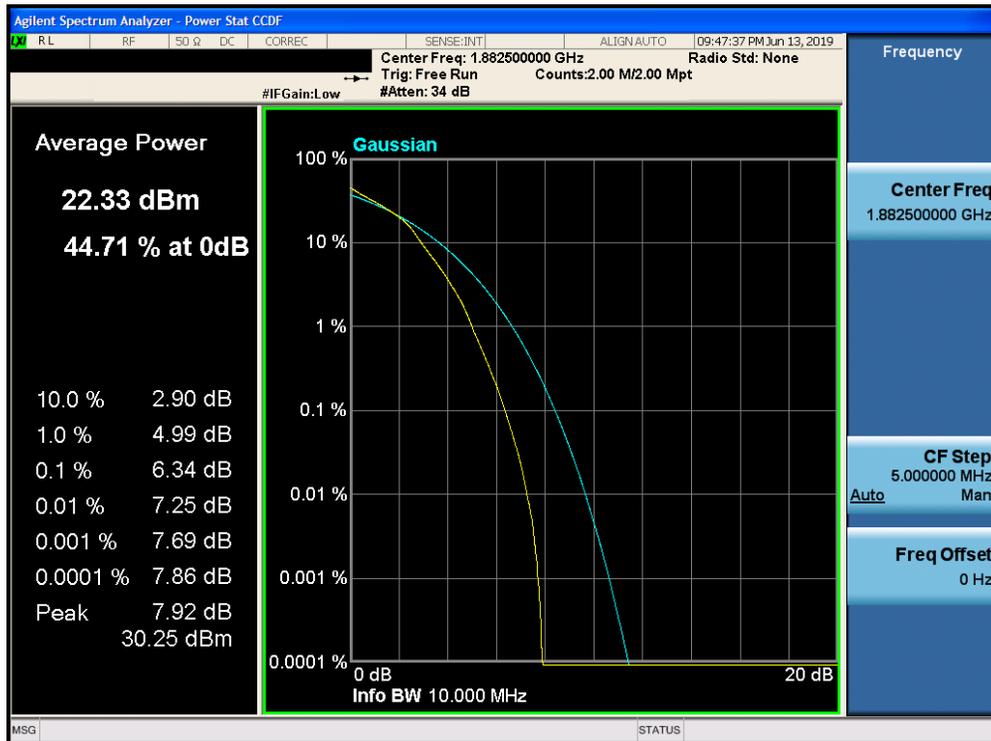


Plot 7-309. PAR Plot (Band 25 - 5.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A2095	PCTEST ENGINEERING LABORATORY, INC.		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1905130010-03.BCG	Test Dates: 05/01/2019 - 08/15/2019	EUT Type: Watch		Page 185 of 235

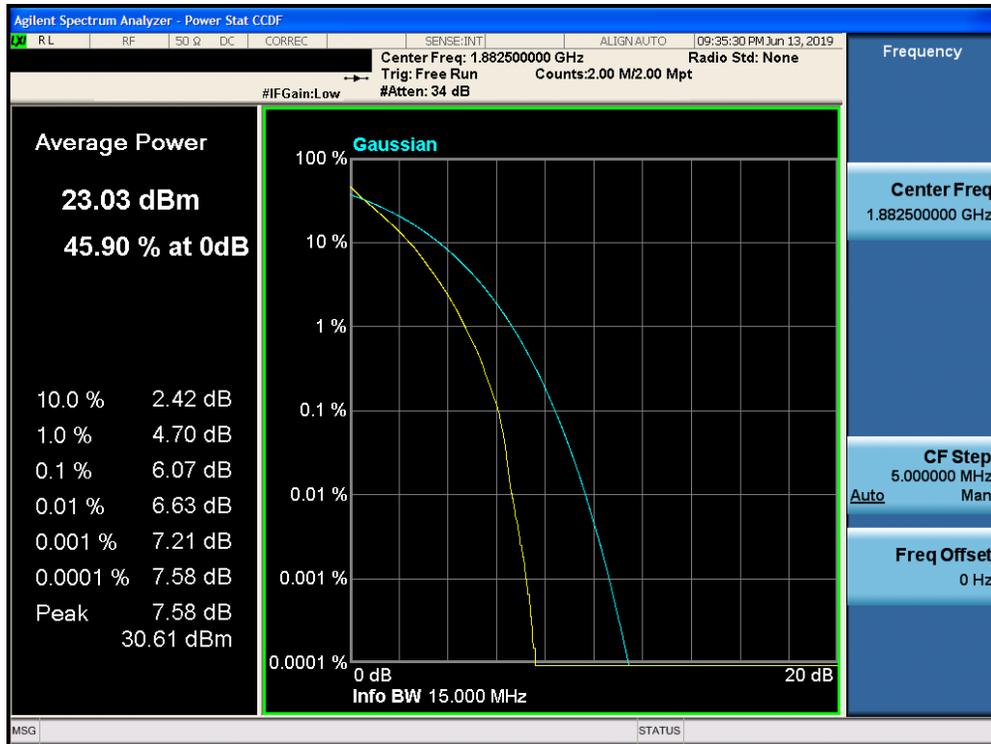


Plot 7-310. PAR Plot (Band 25 - 10.0MHz QPSK - Full RB Configuration)

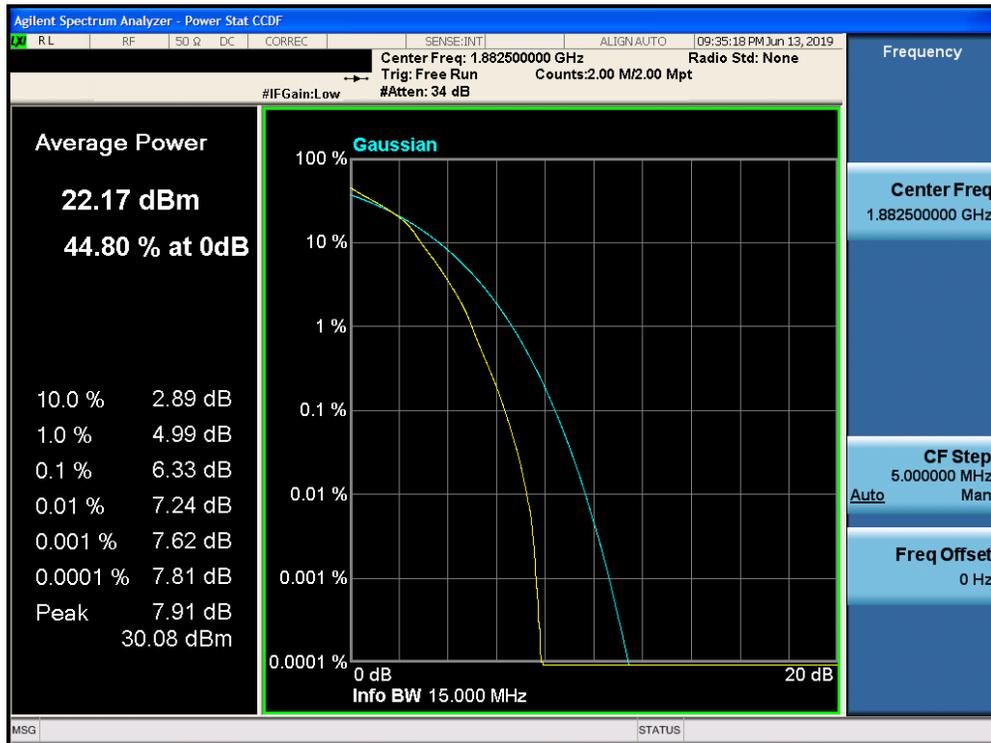


Plot 7-311. PAR Plot (Band 25 - 10.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A2095		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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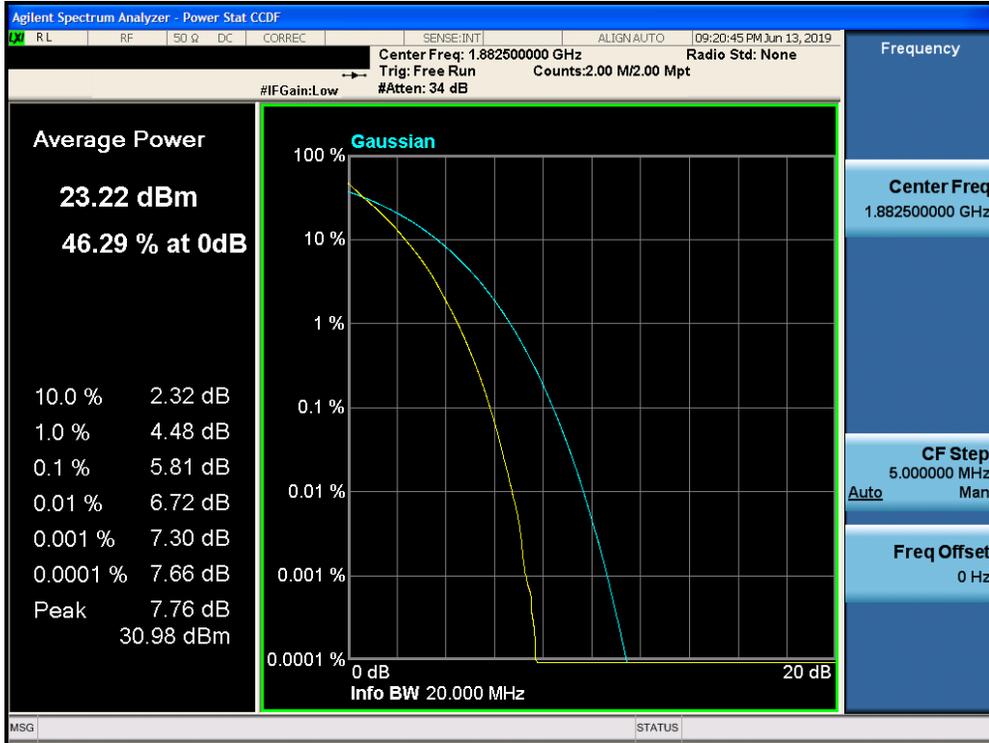


Plot 7-312. PAR Plot (Band 25 - 15.0MHz QPSK - Full RB Configuration)

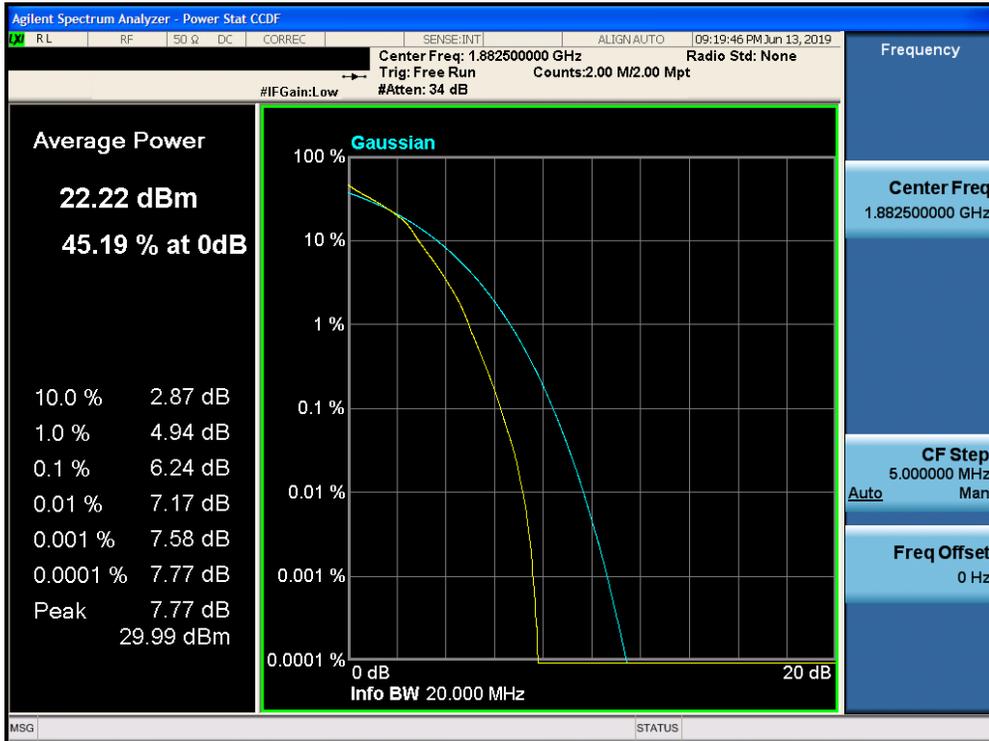


Plot 7-313. PAR Plot (Band 25 - 15.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A2095		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-314. PAR Plot (Band 25 - 20.0MHz QPSK - Full RB Configuration)



Plot 7-315. PAR Plot (Band 25 - 20.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A2095		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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7.6 Radiated Power (ERP/EIRP)

Test Overview

Effective Radiated Power (ERP) and Equivalent Isotropic Radiated Power (EIRP) measurements are performed using the substitution method described in ANSI/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. 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

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 7-5. ERP/EIRP Measurement Setup

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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 the EUT positioning, 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.

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Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [mW]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [mW]	EIRP Limit [dBm]	Margin [dB]
699.70	1.4	QPSK	3 / 2	24.76	-28.50	-5.89	0.258	34.77	-40.66	-3.74	0.423	36.99	-40.73
707.50	1.4	QPSK	3 / 2	25.00	-28.50	-5.65	0.272	34.77	-40.42	-3.50	0.447	36.99	-40.49
715.30	1.4	QPSK	1 / 5	24.95	-28.50	-5.70	0.269	34.77	-40.47	-3.55	0.441	36.99	-40.54
707.50	1.4	16-QAM	1 / 0	24.29	-28.50	-6.36	0.231	34.77	-41.13	-4.21	0.379	36.99	-41.20
700.50	3	QPSK	1 / 14	24.61	-28.50	-6.04	0.249	34.77	-40.81	-3.89	0.408	36.99	-40.88
707.50	3	QPSK	1 / 0	24.90	-28.50	-5.75	0.266	34.77	-40.52	-3.60	0.436	36.99	-40.59
714.50	3	QPSK	1 / 14	24.76	-28.50	-5.89	0.257	34.77	-40.66	-3.74	0.422	36.99	-40.73
707.50	3	16-QAM	1 / 0	24.24	-28.50	-6.41	0.228	34.77	-41.18	-4.26	0.375	36.99	-41.25
701.50	5	QPSK	1 / 24	24.83	-28.50	-5.82	0.262	34.77	-40.59	-3.67	0.429	36.99	-40.66
707.50	5	QPSK	1 / 0	24.87	-28.50	-5.78	0.264	34.77	-40.55	-3.63	0.434	36.99	-40.62
713.50	5	QPSK	1 / 24	24.72	-28.50	-5.93	0.255	34.77	-40.71	-3.78	0.418	36.99	-40.77
713.50	5	16-QAM	1 / 24	24.25	-28.50	-6.40	0.229	34.77	-41.17	-4.25	0.376	36.99	-41.24
704.00	10	QPSK	1 / 49	24.86	-28.50	-5.79	0.264	34.77	-40.56	-3.64	0.433	36.99	-40.63
707.50	10	QPSK	1 / 0	24.88	-28.50	-5.77	0.265	34.77	-40.54	-3.62	0.434	36.99	-40.61
711.00	10	QPSK	1 / 0	24.98	-28.50	-5.67	0.271	34.77	-40.44	-3.52	0.444	36.99	-40.51
711.00	10	16-QAM	1 / 0	24.33	-28.50	-6.32	0.233	34.77	-41.09	-4.17	0.383	36.99	-41.16

Table 7-7. ERP Data (Band 12)

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [mW]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [mW]	EIRP Limit [dBm]	Margin [dB]
706.50	5	QPSK	1 / 0	25.00	-28.50	-5.65	0.272	34.77	-40.42	-3.50	0.446	36.99	-40.49
710.00	5	QPSK	1 / 0	24.96	-28.50	-5.69	0.270	34.77	-40.47	-3.54	0.442	36.99	-40.53
713.50	5	QPSK	1 / 24	24.90	-28.50	-5.75	0.266	34.77	-40.52	-3.60	0.437	36.99	-40.59
713.50	5	16-QAM	1 / 24	24.39	-28.50	-6.26	0.237	34.77	-41.03	-4.11	0.388	36.99	-41.10
709.00	10	QPSK	1 / 0	24.79	-28.50	-5.86	0.259	34.77	-40.63	-3.71	0.426	36.99	-40.70
710.00	10	QPSK	1 / 0	25.00	-28.50	-5.65	0.272	34.77	-40.42	-3.50	0.447	36.99	-40.49
711.00	10	QPSK	1 / 49	24.73	-28.50	-5.92	0.256	34.77	-40.69	-3.77	0.420	36.99	-40.76
710.00	10	16-QAM	1 / 0	24.26	-28.50	-6.39	0.229	34.77	-41.16	-4.24	0.376	36.99	-41.23

Table 7-8. ERP Data (Band 17)

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [mW]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [mW]	EIRP Limit [dBm]	Margin [dB]
779.50	5	QPSK	1 / 0	24.99	-26.40	-3.56	0.440	34.77	-38.34	-1.41	0.722	36.99	-38.40
782.00	5	QPSK	1 / 24	24.91	-26.40	-3.64	0.432	34.77	-38.41	-1.49	0.709	36.99	-38.48
784.50	5	QPSK	1 / 0	24.74	-26.40	-3.81	0.416	34.77	-38.58	-1.66	0.683	36.99	-38.65
784.50	5	16-QAM	1 / 0	24.25	-26.40	-4.30	0.372	34.77	-39.07	-2.15	0.610	36.99	-39.14
782.00	10	QPSK	1 / 0	25.00	-26.40	-3.55	0.442	34.77	-38.32	-1.40	0.724	36.99	-38.39
782.00	10	16-QAM	1 / 0	24.29	-26.40	-4.26	0.375	34.77	-39.03	-2.11	0.615	36.99	-39.10

Table 7-9. ERP Data (Band 13)

FCC ID: BCG-A2095			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 [mW]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [mW]	EIRP Limit [dBm]	Margin [dB]
824.70	1.4	QPSK	1 / 5	24.96	-26.10	-3.29	0.469	38.45	-41.74	-1.14	0.769	40.61	-41.75
836.50	1.4	QPSK	1 / 0	25.00	-26.10	-3.25	0.474	38.45	-41.70	-1.10	0.777	40.61	-41.70
848.30	1.4	QPSK	1 / 5	24.82	-26.10	-3.43	0.454	38.45	-41.88	-1.28	0.744	40.61	-41.89
848.30	1.4	16-QAM	1 / 0	24.21	-26.10	-4.04	0.395	38.45	-42.49	-1.89	0.648	40.61	-42.49
825.50	3	QPSK	1 / 14	24.61	-26.10	-3.64	0.432	38.45	-42.09	-1.49	0.709	40.61	-42.10
836.50	3	QPSK	1 / 0	24.80	-26.10	-3.45	0.452	38.45	-41.90	-1.30	0.741	40.61	-41.91
847.50	3	QPSK	1 / 14	24.70	-26.10	-3.55	0.441	38.45	-42.00	-1.40	0.724	40.61	-42.01
825.50	3	16-QAM	1 / 0	24.06	-26.10	-4.19	0.381	38.45	-42.64	-2.04	0.625	40.61	-42.65
826.50	5	QPSK	1 / 0	24.84	-26.10	-3.41	0.456	38.45	-41.86	-1.26	0.748	40.61	-41.87
836.50	5	QPSK	1 / 0	24.75	-26.10	-3.50	0.447	38.45	-41.95	-1.35	0.734	40.61	-41.95
846.50	5	QPSK	1 / 24	24.76	-26.10	-3.49	0.448	38.45	-41.94	-1.34	0.735	40.61	-41.95
846.50	5	16-QAM	1 / 24	24.20	-26.10	-4.05	0.394	38.45	-42.50	-1.90	0.646	40.61	-42.51
829.00	10	QPSK	1 / 49	24.84	-26.10	-3.41	0.457	38.45	-41.86	-1.26	0.749	40.61	-41.86
836.50	10	QPSK	1 / 0	24.84	-26.10	-3.41	0.456	38.45	-41.86	-1.26	0.748	40.61	-41.87
844.00	10	QPSK	1 / 0	24.80	-26.10	-3.45	0.452	38.45	-41.90	-1.30	0.741	40.61	-41.91
844.00	10	16-QAM	1 / 0	24.22	-26.10	-4.03	0.396	38.45	-42.48	-1.88	0.649	40.61	-42.48

Table 7-10. ERP Data (Band 5)

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [mW]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [mW]	EIRP Limit [dBm]	Margin [dB]
824.70	1.4	QPSK	3 / 2	24.88	-26.10	-3.37	0.460	38.45	-41.82	-1.22	0.755	40.61	-41.83
836.50	1.4	QPSK	1 / 0	24.77	-26.10	-3.48	0.449	38.45	-41.93	-1.33	0.736	40.61	-41.94
848.30	1.4	QPSK	1 / 5	24.78	-26.10	-3.47	0.450	38.45	-41.92	-1.32	0.738	40.61	-41.93
836.50	1.4	16-QAM	1 / 0	24.26	-26.10	-3.99	0.399	38.45	-42.44	-1.84	0.655	40.61	-42.45
825.50	3	QPSK	1 / 0	24.70	-26.10	-3.55	0.442	38.45	-42.00	-1.40	0.724	40.61	-42.01
836.50	3	QPSK	1 / 0	24.72	-26.10	-3.53	0.444	38.45	-41.98	-1.38	0.728	40.61	-41.99
847.50	3	QPSK	1 / 14	24.71	-26.10	-3.54	0.443	38.45	-41.99	-1.39	0.726	40.61	-42.00
847.50	3	16-QAM	1 / 14	24.30	-26.10	-3.95	0.403	38.45	-42.40	-1.80	0.661	40.61	-42.41
826.50	5	QPSK	1 / 24	24.60	-26.10	-3.65	0.432	38.45	-42.10	-1.50	0.708	40.61	-42.11
836.50	5	QPSK	1 / 0	24.70	-26.10	-3.55	0.442	38.45	-42.00	-1.40	0.724	40.61	-42.01
846.50	5	QPSK	1 / 24	24.71	-26.10	-3.54	0.443	38.45	-41.99	-1.39	0.726	40.61	-42.00
826.50	5	16-QAM	1 / 24	24.17	-26.10	-4.08	0.391	38.45	-42.53	-1.93	0.641	40.61	-42.54
829.00	10	QPSK	1 / 49	24.80	-26.10	-3.45	0.452	38.45	-41.90	-1.30	0.741	40.61	-41.91
836.50	10	QPSK	1 / 0	24.86	-26.10	-3.39	0.458	38.45	-41.84	-1.24	0.752	40.61	-41.85
844.00	10	QPSK	1 / 49	24.88	-26.10	-3.37	0.460	38.45	-41.82	-1.22	0.755	40.61	-41.83
829.00	10	16-QAM	1 / 27	24.30	-26.10	-3.95	0.403	38.45	-42.40	-1.80	0.661	40.61	-42.41

Table 7-11. ERP Data (Band 26)

FCC ID: BCG-A2095			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1905130010-03.BCG	Test Dates: 05/01/2019 - 08/15/2019	EUT Type: Watch	Page 192 of 235	

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [mW]	EIRP Limit [dBm]	Margin [dB]
1710.70	1.4	QPSK	3 / 2	24.00	-12.70	11.30	13.490	30.00	-18.70
1732.50	1.4	QPSK	1 / 0	24.00	-12.70	11.30	13.490	30.00	-18.70
1754.30	1.4	QPSK	1 / 5	24.00	-12.70	11.30	13.490	30.00	-18.70
1732.50	1.4	16-QAM	1 / 0	23.72	-12.70	11.02	12.647	30.00	-18.98
1711.50	3	QPSK	1 / 0	23.93	-12.70	11.23	13.274	30.00	-18.77
1732.50	3	QPSK	1 / 0	24.00	-12.70	11.30	13.490	30.00	-18.70
1753.50	3	QPSK	1 / 14	24.00	-12.70	11.30	13.490	30.00	-18.70
1753.50	3	16-QAM	1 / 0	23.68	-12.70	10.98	12.531	30.00	-19.02
1712.50	5	QPSK	1 / 0	24.00	-12.70	11.30	13.490	30.00	-18.70
1732.50	5	QPSK	1 / 0	24.00	-12.70	11.30	13.490	30.00	-18.70
1752.50	5	QPSK	1 / 24	24.00	-12.70	11.30	13.490	30.00	-18.70
1732.50	5	16-QAM	1 / 24	23.78	-12.70	11.08	12.823	30.00	-18.92
1715.00	10	QPSK	1 / 0	23.91	-12.70	11.21	13.213	30.00	-18.79
1732.50	10	QPSK	1 / 49	24.00	-12.70	11.30	13.490	30.00	-18.70
1750.00	10	QPSK	1 / 49	23.93	-12.70	11.23	13.274	30.00	-18.77
1732.50	10	16-QAM	1 / 0	23.73	-12.70	11.03	12.677	30.00	-18.97
1717.50	15	QPSK	36 / 18	23.85	-12.70	11.15	13.032	30.00	-18.85
1732.50	15	QPSK	1 / 74	23.99	-12.70	11.29	13.459	30.00	-18.71
1747.50	15	QPSK	1 / 74	23.76	-12.70	11.06	12.764	30.00	-18.94
1747.50	15	16-QAM	1 / 0	23.56	-12.70	10.86	12.190	30.00	-19.14
1720.00	20	QPSK	1 / 99	23.94	-12.70	11.24	13.305	30.00	-18.76
1732.50	20	QPSK	1 / 0	24.00	-12.70	11.30	13.490	30.00	-18.70
1745.00	20	QPSK	1 / 0	24.00	-12.70	11.30	13.490	30.00	-18.70
1732.50	20	16-QAM	1 / 0	23.61	-12.70	10.91	12.331	30.00	-19.09

Table 7-12. EIRP Data (Band 4)

FCC ID: BCG-A2095			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1905130010-03.BCG	Test Dates: 05/01/2019 - 08/15/2019	EUT Type: Watch	Page 193 of 235	

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [mW]	EIRP Limit [dBm]	Margin [dB]
1710.70	1.4	QPSK	3 / 2	23.86	-12.70	11.16	13.062	30.00	-18.84
1745.00	1.4	QPSK	1 / 5	24.00	-12.70	11.30	13.490	30.00	-18.70
1779.30	1.4	QPSK	3 / 2	24.00	-12.70	11.30	13.490	30.00	-18.70
1779.30	1.4	16-QAM	1 / 0	23.62	-12.70	10.92	12.359	30.00	-19.08
1711.50	3	QPSK	1 / 0	23.94	-12.70	11.24	13.305	30.00	-18.76
1745.00	3	QPSK	1 / 0	24.00	-12.70	11.30	13.490	30.00	-18.70
1778.50	3	QPSK	1 / 0	23.99	-12.70	11.29	13.459	30.00	-18.71
1778.50	3	16-QAM	1 / 0	23.61	-12.70	10.91	12.331	30.00	-19.09
1712.50	5	QPSK	1 / 0	23.98	-12.70	11.28	13.428	30.00	-18.72
1745.00	5	QPSK	1 / 0	23.97	-12.70	11.27	13.397	30.00	-18.73
1777.50	5	QPSK	1 / 24	24.00	-12.70	11.30	13.490	30.00	-18.70
1777.50	5	16-QAM	1 / 24	23.66	-12.70	10.96	12.474	30.00	-19.04
1715.00	10	QPSK	1 / 0	24.00	-12.70	11.30	13.490	30.00	-18.70
1745.00	10	QPSK	1 / 0	23.87	-12.70	11.17	13.092	30.00	-18.83
1775.00	10	QPSK	1 / 0	23.85	-12.70	11.15	13.032	30.00	-18.85
1775.00	10	16-QAM	1 / 0	23.66	-12.70	10.96	12.474	30.00	-19.04
1717.50	15	QPSK	1 / 0	23.79	-12.70	11.09	12.853	30.00	-18.91
1745.00	15	QPSK	1 / 0	24.00	-12.70	11.30	13.490	30.00	-18.70
1772.50	15	QPSK	1 / 0	23.91	-12.70	11.21	13.213	30.00	-18.79
1772.50	15	16-QAM	1 / 0	23.65	-12.70	10.95	12.445	30.00	-19.05
1720.00	20	QPSK	1 / 99	23.91	-12.70	11.21	13.213	30.00	-18.79
1745.00	20	QPSK	1 / 0	23.83	-12.70	11.13	12.972	30.00	-18.87
1770.00	20	QPSK	1 / 99	23.91	-12.70	11.21	13.213	30.00	-18.79
1770.00	20	16-QAM	1 / 0	23.63	-12.70	10.93	12.388	30.00	-19.07

Table 7-13. EIRP Data (Band 66)

FCC ID: BCG-A2095			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1905130010-03.BCG	Test Dates: 05/01/2019 - 08/15/2019	EUT Type: Watch	Page 194 of 235	

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [mW]	EIRP Limit [dBm]	Margin [dB]
1850.70	1.4	QPSK	1 / 0	23.99	-12.10	11.89	15.467	33.01	-21.12
1880.00	1.4	QPSK	1 / 5	23.71	-12.10	11.61	14.480	33.01	-21.40
1909.30	1.4	QPSK	1 / 5	23.65	-12.10	11.55	14.302	33.01	-21.46
1909.30	1.4	16-QAM	1 / 5	22.86	-12.10	10.76	11.916	33.01	-22.25
1851.50	3	QPSK	1 / 0	23.81	-12.10	11.71	14.819	33.01	-21.30
1880.00	3	QPSK	1 / 14	23.87	-12.10	11.77	15.018	33.01	-21.24
1908.50	3	QPSK	1 / 14	23.80	-12.10	11.70	14.775	33.01	-21.32
1880.00	3	16-QAM	1 / 14	23.17	-12.10	11.07	12.782	33.01	-21.94
1852.50	5	QPSK	1 / 0	23.89	-12.10	11.79	15.090	33.01	-21.22
1880.00	5	QPSK	1 / 24	23.80	-12.10	11.70	14.798	33.01	-21.31
1907.50	5	QPSK	1 / 24	23.78	-12.10	11.68	14.719	33.01	-21.33
1907.50	5	16-QAM	1 / 24	23.18	-12.10	11.08	12.827	33.01	-21.93
1855.00	10	QPSK	1 / 27	23.87	-12.10	11.77	15.034	33.01	-21.24
1880.00	10	QPSK	1 / 0	23.94	-12.10	11.84	15.289	33.01	-21.17
1905.00	10	QPSK	1 / 27	23.88	-12.10	11.78	15.071	33.01	-21.23
1880.00	10	16-QAM	1 / 0	23.19	-12.10	11.09	12.863	33.01	-21.92
1857.50	15	QPSK	1 / 27	23.83	-12.10	11.73	14.886	33.01	-21.28
1880.00	15	QPSK	1 / 0	23.76	-12.10	11.66	14.641	33.01	-21.35
1902.50	15	QPSK	1 / 0	23.80	-12.10	11.70	14.799	33.01	-21.31
1902.50	15	16-QAM	1 / 27	23.17	-12.10	11.07	12.807	33.01	-21.94
1860.00	20	QPSK	1 / 27	23.59	-12.10	11.49	14.080	33.01	-21.52
1880.00	20	QPSK	1 / 0	23.83	-12.10	11.73	14.909	33.01	-21.28
1900.00	20	QPSK	1 / 0	23.85	-12.10	11.75	14.973	33.01	-21.26
1900.00	20	16-QAM	1 / 27	23.18	-12.10	11.08	12.832	33.01	-21.93

Table 7-14. EIRP Data (Band 2)

FCC ID: BCG-A2095			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1905130010-03.BCG	Test Dates: 05/01/2019 - 08/15/2019	EUT Type: Watch	Page 195 of 235	

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [mW]	EIRP Limit [dBm]	Margin [dB]
1850.70	1.4	QPSK	1 / 0	23.69	-12.10	11.59	14.428	33.01	-21.42
1882.50	1.4	QPSK	1 / 0	23.91	-12.10	11.81	15.182	33.01	-21.20
1914.30	1.4	QPSK	1 / 0	24.00	-12.10	11.90	15.488	33.01	-21.11
1914.30	1.4	16-QAM	1 / 0	23.29	-12.10	11.19	13.152	33.01	-21.82
1851.50	3	QPSK	1 / 0	23.57	-12.10	11.47	14.042	33.01	-21.54
1882.50	3	QPSK	1 / 0	23.83	-12.10	11.73	14.883	33.01	-21.28
1913.50	3	QPSK	1 / 0	23.93	-12.10	11.83	15.230	33.01	-21.18
1913.50	3	16-QAM	1 / 0	23.31	-12.10	11.21	13.203	33.01	-21.80
1852.50	5	QPSK	1 / 0	23.63	-12.10	11.53	14.232	33.01	-21.48
1882.50	5	QPSK	1 / 0	23.87	-12.10	11.77	15.039	33.01	-21.24
1912.50	5	QPSK	1 / 0	23.88	-12.10	11.78	15.065	33.01	-21.23
1912.50	5	16-QAM	1 / 0	23.46	-12.10	11.36	13.668	33.01	-21.65
1855.00	10	QPSK	1 / 27	23.65	-12.10	11.55	14.275	33.01	-21.46
1882.50	10	QPSK	1 / 27	23.87	-12.10	11.77	15.025	33.01	-21.24
1910.00	10	QPSK	1 / 27	23.79	-12.10	11.69	14.768	33.01	-21.32
1910.00	10	16-QAM	1 / 27	23.25	-12.10	11.15	13.032	33.01	-21.86
1857.50	15	QPSK	1 / 27	23.73	-12.10	11.63	14.538	33.01	-21.39
1882.50	15	QPSK	1 / 27	23.79	-12.10	11.69	14.754	33.01	-21.32
1907.50	15	QPSK	1 / 0	23.80	-12.10	11.70	14.798	33.01	-21.31
1907.50	15	16-QAM	1 / 0	23.25	-12.10	11.15	13.030	33.01	-21.86
1860.00	20	QPSK	1 / 27	23.51	-12.10	11.41	13.837	33.01	-21.60
1882.50	20	QPSK	1 / 27	23.80	-12.10	11.70	14.796	33.01	-21.31
1905.00	20	QPSK	1 / 0	23.98	-12.10	11.88	15.415	33.01	-21.13
1905.00	20	16-QAM	1 / 27	23.34	-12.10	11.24	13.293	33.01	-21.77

Table 7-15. EIRP Data (Band 25)

FCC ID: BCG-A2095			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1905130010-03.BCG	Test Dates: 05/01/2019 - 08/15/2019	EUT Type: Watch	Page 196 of 235	

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [mW]	EIRP Limit [dBm]	Margin [dB]
2502.50	5	QPSK	1 / 0	23.47	-10.00	13.47	22.233	33.01	-19.54
2535.00	5	QPSK	1 / 24	23.35	-10.00	13.35	21.627	33.01	-19.66
2567.50	5	QPSK	1 / 0	23.30	-10.00	13.30	21.380	33.01	-19.71
2502.50	5	16-QAM	1 / 24	22.65	-10.00	12.65	18.408	33.01	-20.36
2505.00	10	QPSK	1 / 0	23.36	-10.00	13.36	21.677	33.01	-19.65
2535.00	10	QPSK	1 / 0	23.36	-10.00	13.36	21.677	33.01	-19.65
2565.00	10	QPSK	1 / 27	23.25	-10.00	13.25	21.135	33.01	-19.76
2505.00	10	16-QAM	1 / 0	22.68	-10.00	12.68	18.535	33.01	-20.33
2507.50	15	QPSK	1 / 0	23.34	-10.00	13.34	21.577	33.01	-19.67
2535.00	15	QPSK	1 / 0	23.26	-10.00	13.26	21.184	33.01	-19.75
2562.50	15	QPSK	1 / 27	23.49	-10.00	13.49	22.336	33.01	-19.52
2507.50	15	16-QAM	1 / 0	22.72	-10.00	12.72	18.707	33.01	-20.29
2510.00	20	QPSK	1 / 0	23.31	-10.00	13.31	21.429	33.01	-19.70
2535.00	20	QPSK	1 / 0	23.17	-10.00	13.17	20.749	33.01	-19.84
2560.00	20	QPSK	1 / 27	23.27	-10.00	13.27	21.232	33.01	-19.74
2510.00	20	16-QAM	1 / 0	22.69	-10.00	12.69	18.578	33.01	-20.32

Table 7-16. EIRP Data (Band 7)

FCC ID: BCG-A2095			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1905130010-03.BCG	Test Dates: 05/01/2019 - 08/15/2019	EUT Type: Watch	Page 197 of 235	

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [mW]	EIRP Limit [dBm]	Margin [dB]
2498.50	5	QPSK	1 / 24	23.47	-10.00	13.47	22.233	33.01	-19.54
2593.00	5	QPSK	1 / 0	23.36	-10.00	13.36	21.677	33.01	-19.65
2687.50	5	QPSK	1 / 0	23.31	-10.00	13.31	21.429	33.01	-19.70
2498.50	5	16-QAM	1 / 24	22.69	-10.00	12.69	18.578	33.01	-20.32
2501.00	10	QPSK	1 / 27	23.49	-10.00	13.49	22.336	33.01	-19.52
2593.00	10	QPSK	1 / 0	23.33	-10.00	13.33	21.528	33.01	-19.68
2685.00	10	QPSK	1 / 0	23.50	-10.00	13.50	22.387	33.01	-19.51
2501.00	10	16-QAM	1 / 27	22.76	-10.00	12.76	18.880	33.01	-20.25
2503.50	15	QPSK	1 / 27	23.42	-10.00	13.42	21.979	33.01	-19.59
2593.00	15	QPSK	1 / 0	23.29	-10.00	13.29	21.330	33.01	-19.72
2682.50	15	QPSK	1 / 0	23.33	-10.00	13.33	21.528	33.01	-19.68
2503.50	15	16-QAM	1 / 0	22.52	-10.00	12.52	17.865	33.01	-20.49
2506.00	20	QPSK	1 / 27	23.49	-10.00	13.49	22.336	33.01	-19.52
2593.00	20	QPSK	1 / 0	23.12	-10.00	13.12	20.512	33.01	-19.89
2680.00	20	QPSK	1 / 27	23.47	-10.00	13.47	22.233	33.01	-19.54
2506.00	20	16-QAM	1 / 27	22.57	-10.00	12.57	18.072	33.01	-20.44

Table 7-17. EIRP Data (Band 41)

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7.7 Radiated Spurious Emissions Measurements

Test Overview

Radiated spurious emissions measurements are performed using the substitution method described in ANSI/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/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: BCG-A2095	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Test Setup

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

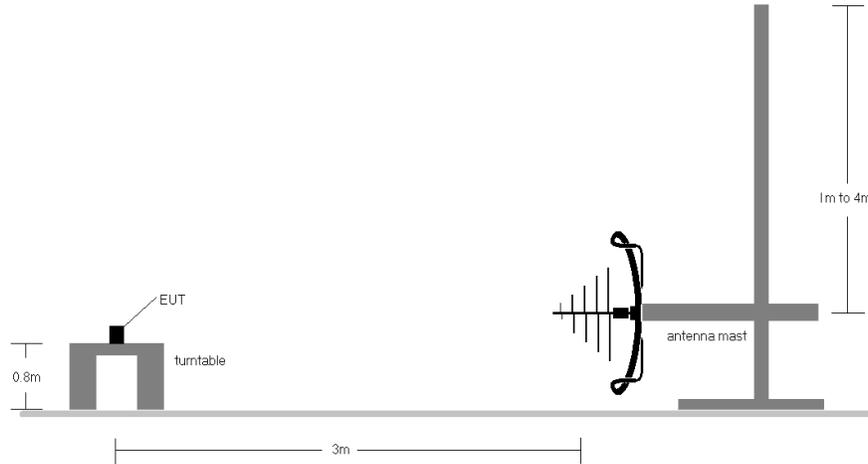


Figure 7-6. Test Instrument & Measurement Setup < 1GHz

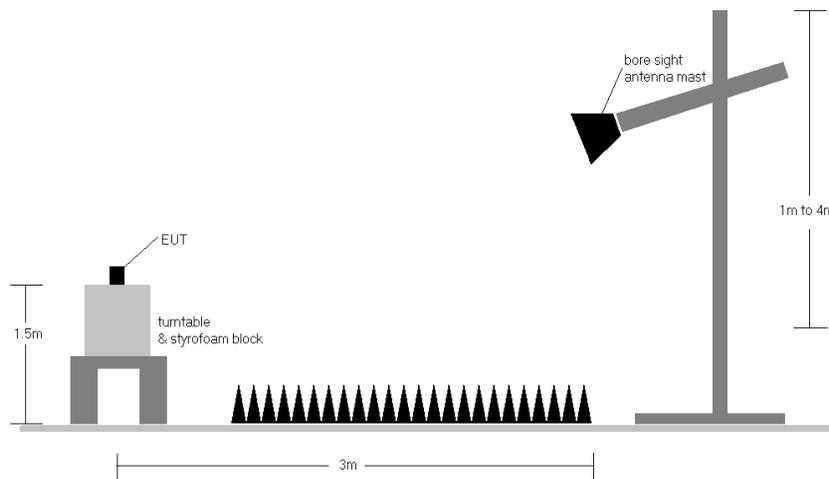


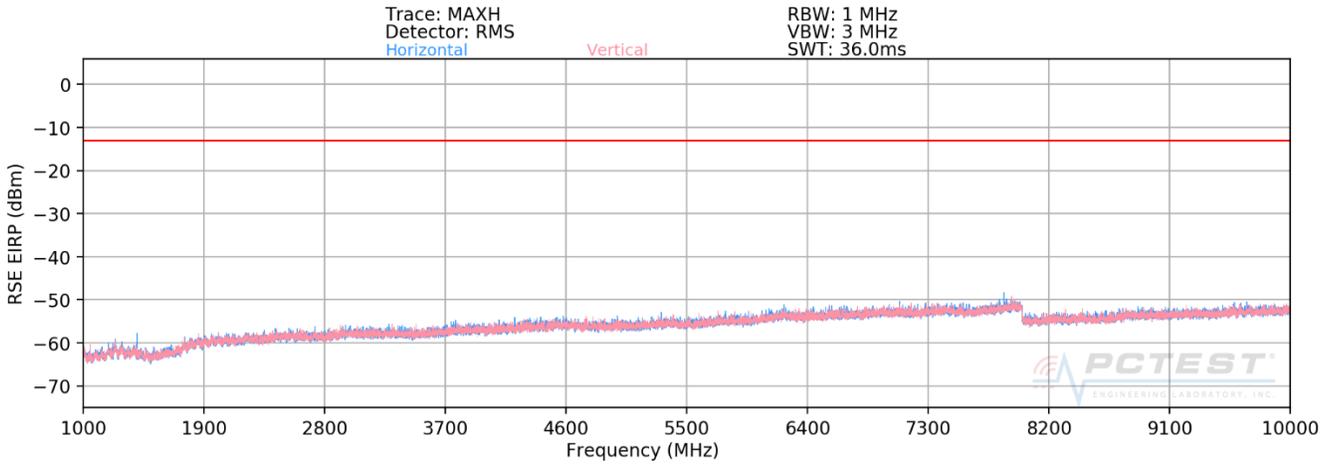
Figure 7-7. Test Instrument & Measurement Setup > 1GHz

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 the EUT positioning, 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 spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 4) Emissions below 18GHz were measured at a 3 meter 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) Below 1GHz Pre-scan plot shows no significant emissions.

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Band 12/17



Plot 7-316. Radiated Spurious Plot above 1GHz (Band 12/17)

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]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1408.00	H	112	293	-68.18	4.75	-63.43	-50.4
2112.00	H	-	-	-70.07	5.30	-64.77	-51.8
2816.00	H	-	-	-71.21	7.12	-64.09	-51.1
3520.00	H	-	-	-71.83	8.31	-63.52	-50.5

Table 7-18. Radiated Spurious Data (Band 12/17 – Low Channel)

FCC ID: BCG-A2095	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1905130010-03.BCG	Test Dates: 05/01/2019 - 08/15/2019	EUT Type: Watch	Page 201 of 235

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]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1415.00	H	111	245	-68.65	4.87	-63.78	-50.8
2122.50	H	-	-	-70.00	5.37	-64.63	-51.6
2830.00	H	-	-	-71.33	7.23	-64.10	-51.1
3537.50	H	-	-	-71.88	8.31	-63.56	-50.6

Table 7-19. Radiated Spurious Data (Band 12/17 – Mid Channel)

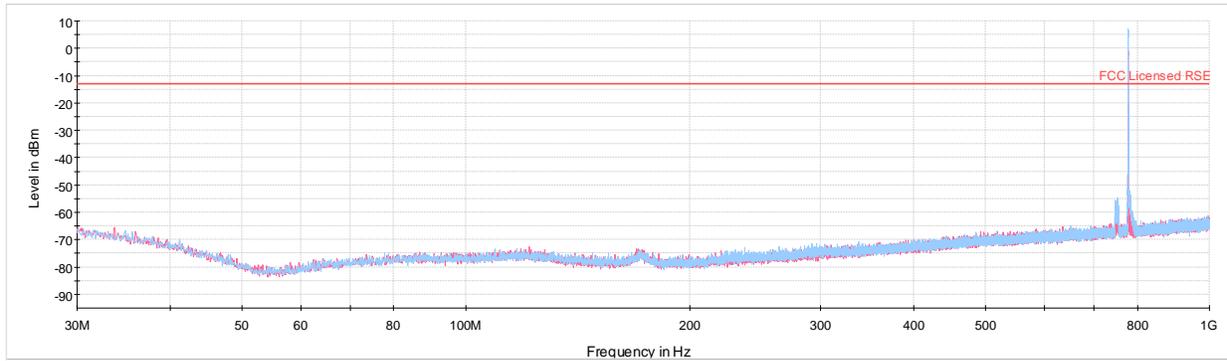
OPERATING FREQUENCY: 711.00 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1422.00	H	108	217	-69.51	5.00	-64.51	-51.5
2133.00	H	-	-	-70.49	5.47	-65.02	-52.0
2844.00	H	-	-	-71.33	7.27	-64.06	-51.1
3555.00	H	-	-	-71.35	8.32	-63.03	-50.0

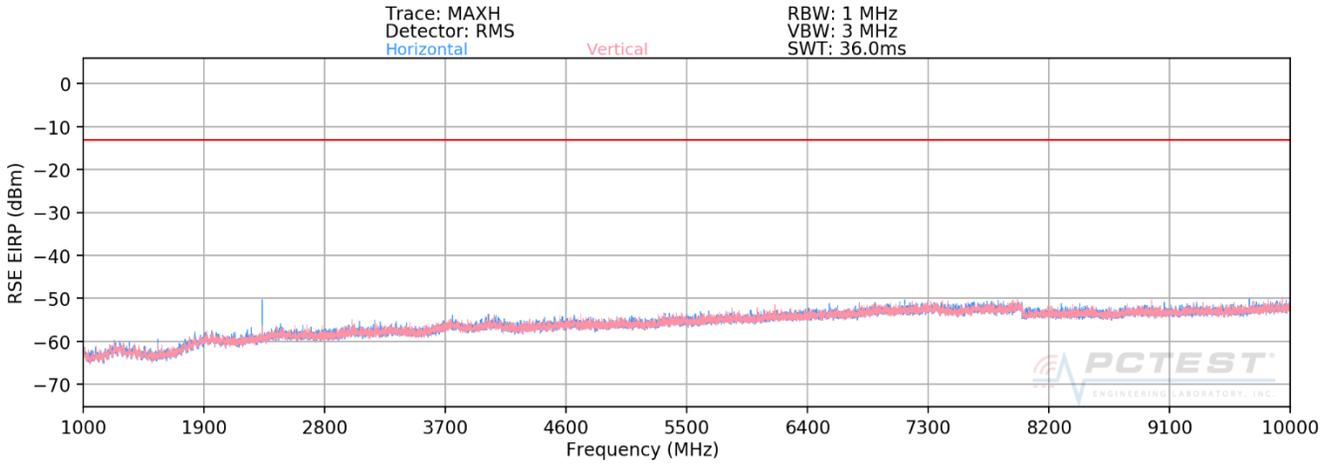
Table 7-20. Radiated Spurious Data (Band 12/17 – High Channel)

FCC ID: BCG-A2095			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Band 13



Plot 7-317. Radiated Spurious Plot below 1GHz (Band 13)



Plot 7-318. Radiated Spurious Plot above 1GHz (Band 13)

FCC ID: BCG-A2095	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1905130010-03.BCG	Test Dates: 05/01/2019 - 08/15/2019	EUT Type: Watch	Page 203 of 235

OPERATING FREQUENCY: 779.50 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 5.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
2338.50	H	162	188	-67.51	6.02	-61.49	-48.5
3118.00	H	-	-	-70.85	7.22	-63.63	-50.6
3897.50	H	-	-	-71.47	8.60	-62.87	-49.9
4677.00	H	-	-	-70.75	9.29	-61.46	-48.5

Table 7-21. Radiated Spurious Data (Band 13 – Low Channel)

OPERATING FREQUENCY: 782.00 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]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
2346.00	H	137	179	-63.65	7.24	-56.42	-43.4
3128.00	H	-	-	-70.83	8.63	-62.20	-49.2
3910.00	H	-	-	-70.91	9.36	-61.55	-48.5
4692.00	H	-	-	-71.84	10.53	-61.32	-48.3

Table 7-22. Radiated Spurious Data (Band 13 – Mid Channel)

FCC ID: BCG-A2095			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1905130010-03.BCG	Test Dates: 05/01/2019 - 08/15/2019	EUT Type: Watch		Page 204 of 235

OPERATING FREQUENCY: 784.50 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 5.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
2353.50	H	135	194	-65.17	6.01	-59.16	-46.2
3138.00	H	-	-	-70.79	7.25	-63.54	-50.5
3922.50	H	-	-	-71.54	8.66	-62.88	-49.9
4707.00	H	-	-	-71.16	9.42	-61.73	-48.7

Table 7-23. Radiated Spurious Data (Band 13 – High Channel)

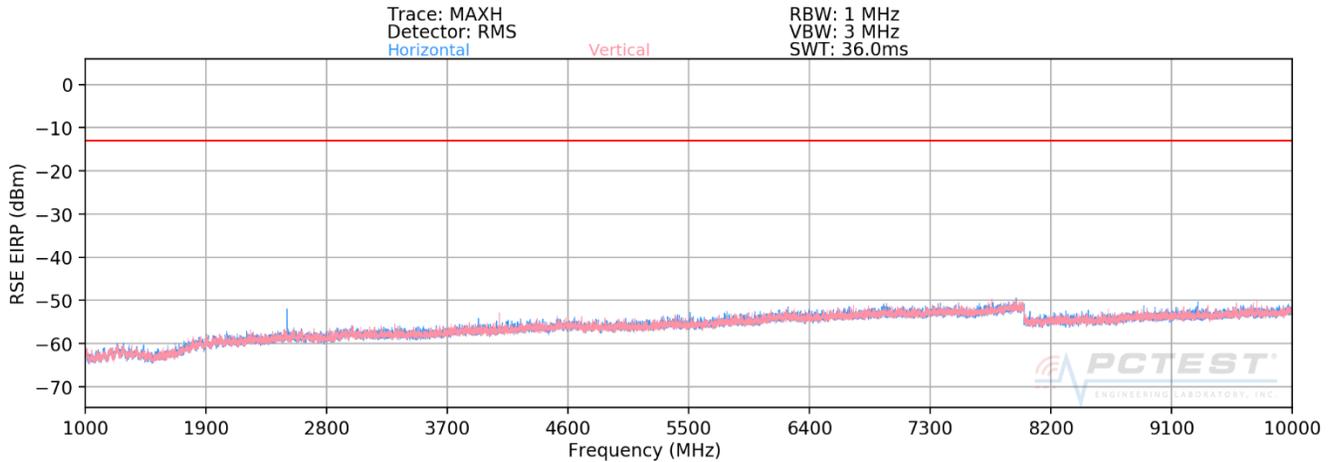
MODULATION SIGNAL: QPSK
 BANDWIDTH: 5.00 MHz
 DISTANCE: 3 meters
 NARROWBAND EMISSION LIMIT: -50 dBm
 WIDEBAND EMISSION LIMIT: -40 dBm/MHz

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1559.00	H	136	155	-71.61	6.09	-65.52	-25.5
1564.00	H	110	206	-69.31	6.12	-63.19	-23.2
1569.00	H	135	218	-67.61	6.14	-61.47	-21.5

Table 7-24. Radiated Spurious Data (Band 13 – 1559-1610MHz Band)

FCC ID: BCG-A2095			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Band 26/5



Plot 7-319. Radiated Spurious Plot above 1GHz (Band 26/5)

OPERATING FREQUENCY: 829.00 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]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1658.00	H	150	311	-71.15	5.83	-65.32	-52.3
2487.00	H	163	181	-67.18	5.89	-61.29	-48.3
3316.00	H	-	-	-71.82	7.73	-64.09	-51.1
4145.00	H	-	-	-71.48	8.78	-62.69	-49.7
4974.00	H	-	-	-71.72	9.98	-61.75	-48.7

Table 7-25. Radiated Spurious Data (Band 26/5 – Low Channel)

FCC ID: BCG-A2095	PCTEST ENGINEERING LABORATORY, INC.		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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OPERATING FREQUENCY: 836.50 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]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1673.00	H	116	344	-70.90	5.94	-64.96	-52.0
2509.50	H	152	170	-66.66	6.04	-60.62	-47.6
3346.00	H	-	-	-71.45	7.89	-63.56	-50.6
4182.50	H	-	-	-71.16	8.88	-62.28	-49.3
5019.00	H	-	-	-71.26	10.06	-61.20	-48.2

Table 7-26. Radiated Spurious Data (Band 26/5 – Mid Channel)

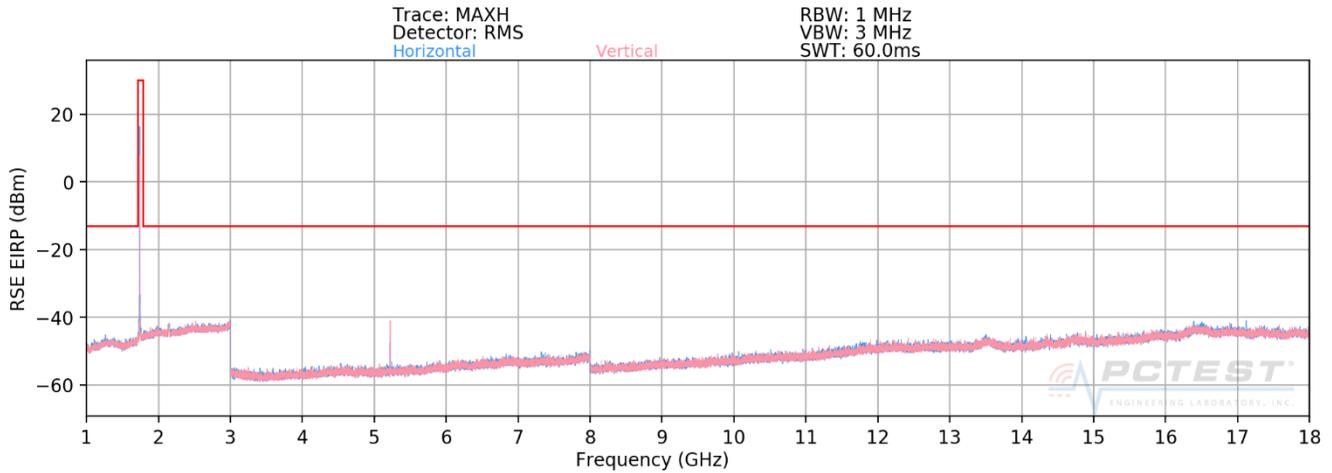
OPERATING FREQUENCY: 844.00 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1688.00	H	170	2280	-70.46	5.87	-64.59	-51.6
2532.00	H	148	19	-65.56	6.16	-59.40	-46.4
3376.00	H	-	-	-71.35	8.09	-63.26	-50.3
4220.00	H	-	-	-71.01	8.88	-62.13	-49.1
5064.00	H	-	-	-71.92	10.11	-61.81	-48.8

Table 7-27. Radiated Spurious Data (Band 26/5 – High Channel)

FCC ID: BCG-A2095			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Band 66/4



Plot 7-320. Radiated Spurious Plot above 1GHz (Band 66/4)

OPERATING FREQUENCY: 1720.00 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3440.00	V	-	-	-70.28	8.27	-62.01	-49.0
5160.00	V	108	136	-67.75	10.21	-57.55	-44.5
6880.00	V	-	-	-70.82	11.45	-59.37	-46.4
8600.00	V	-	-	-73.63	13.16	-60.47	-47.5
10320.00	V	-	-	-71.25	13.18	-58.07	-45.1

Table 7-28. Radiated Spurious Data (Band 66/4 – Low Channel)

FCC ID: BCG-A2095	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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OPERATING FREQUENCY: 1745.00 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3490.00	V	-	-	-72.07	8.30	-63.77	-50.8
5235.00	V	103	118	-61.27	10.29	-50.97	-38.0
6980.00	V	-	-	-71.23	11.59	-59.64	-46.6
8725.00	V	-	-	-73.32	13.22	-60.10	-47.1
10470.00	V	-	-	-71.01	13.19	-57.82	-44.8

Table 7-29. Radiated Spurious Data (Band 66/4 – Mid Channel)

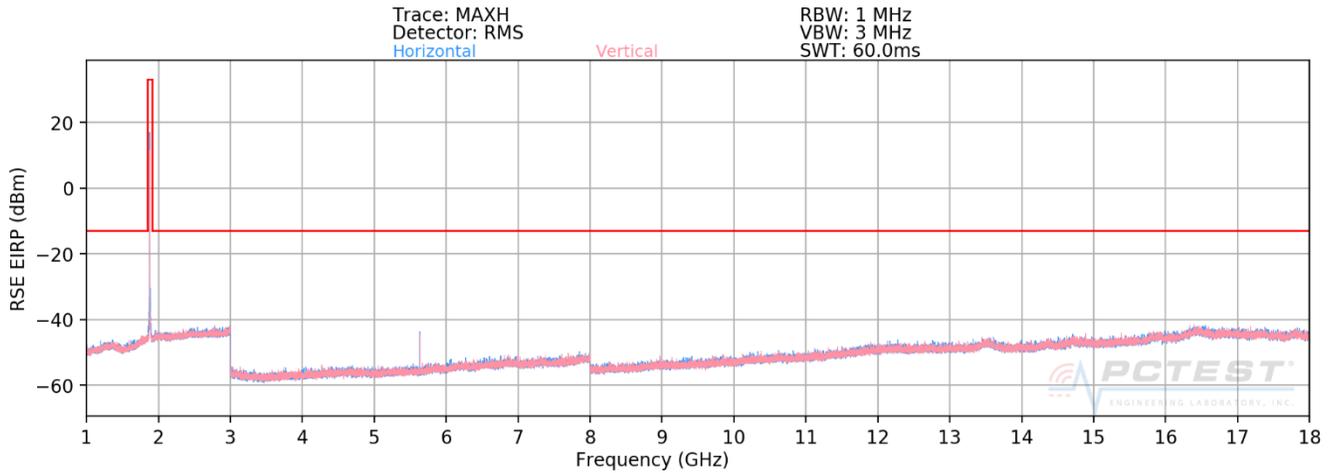
OPERATING FREQUENCY: 1770.00 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3540.00	V	-	-	-71.31	8.32	-62.99	-50.0
5310.00	V	105	133	-66.46	10.29	-56.17	-43.2
7080.00	V	-	-	-71.24	11.69	-59.55	-46.6
8850.00	V	-	-	-73.13	13.21	-59.92	-46.9
10620.00	V	-	-	-70.35	13.14	-57.21	-44.2

Table 7-30. Radiated Spurious Data (Band 66/4 – High Channel)

FCC ID: BCG-A2095		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Band 25/2



Plot 7-321. Radiated Spurious Plot above 1GHz (Band 25/2)

OPERATING FREQUENCY: 1860.00 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3720.00	V	-	-	-71.00	8.41	-62.58	-49.6
5580.00	V	106	129	-63.55	10.66	-52.89	-39.9
7440.00	V	-	-	-71.58	12.02	-59.56	-46.6
9300.00	V	-	-	-72.83	13.39	-59.44	-46.4
11160.00	V	-	-	-70.02	13.19	-56.84	-43.8

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

FCC ID: BCG-A2095			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1905130010-03.BCG	Test Dates: 05/01/2019 - 08/15/2019	EUT Type: Watch		Page 210 of 235

OPERATING FREQUENCY: 1882.50 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3765.00	V	-	-	-70.81	8.34	-62.48	-49.5
5647.50	V	104	138	-56.79	10.72	-46.06	-33.1
7530.00	V	-	-	-71.25	12.13	-59.12	-46.1
9412.50	V	-	-	-62.83	13.37	-49.46	-36.5
11295.00	V	-	-	-60.78	13.17	-47.60	-34.6

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

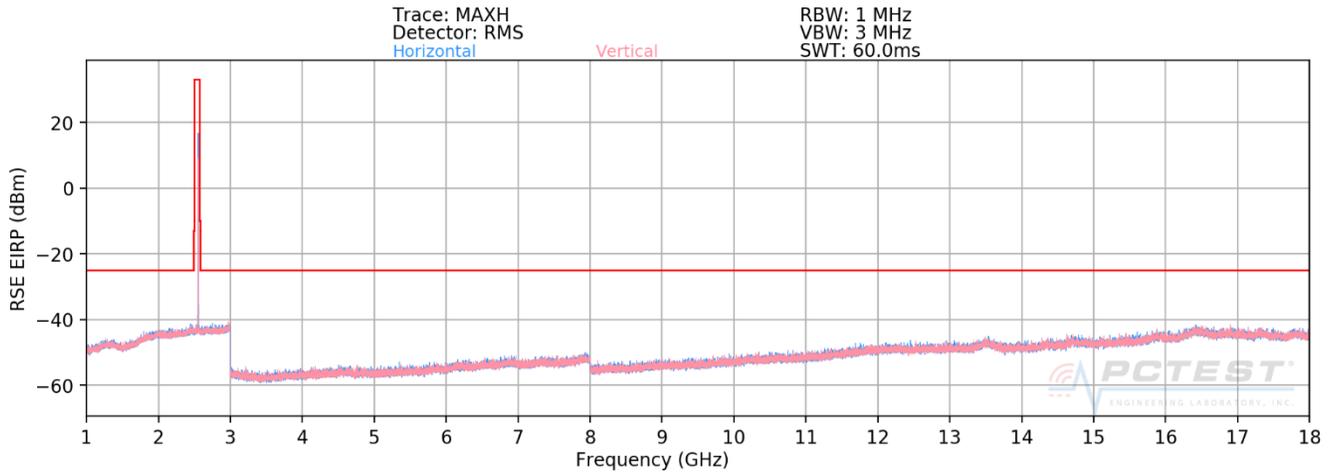
OPERATING FREQUENCY: 1905.00 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3810.00	V	-	-	-70.77	8.30	-62.47	-49.5
5715.00	V	-	-	-71.98	10.82	-61.16	-48.2
7620.00	V	-	-	-71.64	12.31	-59.33	-46.3

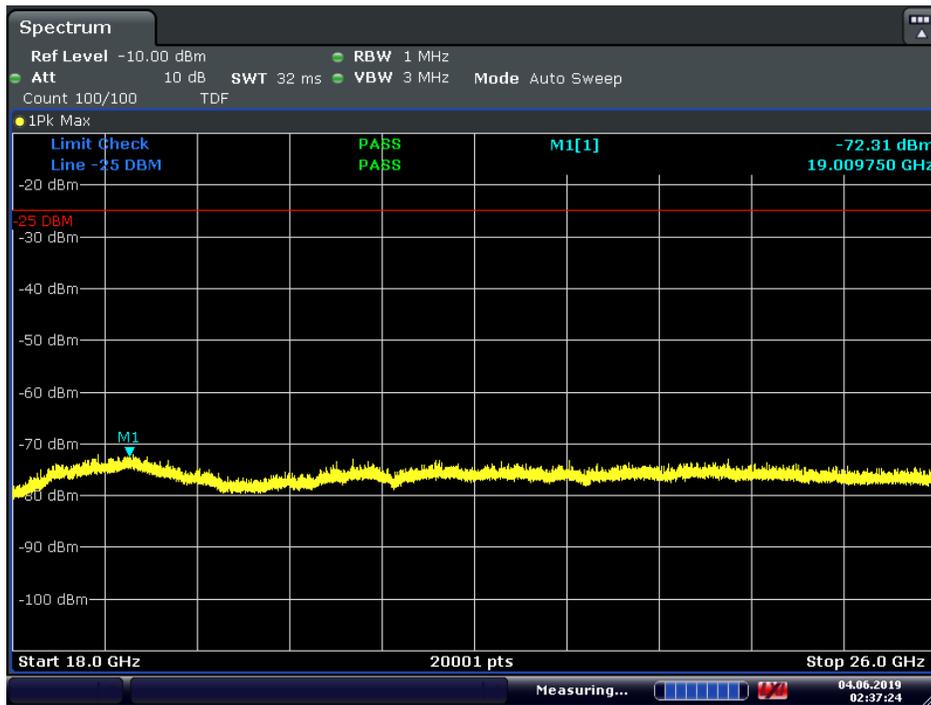
Table 7-33. Radiated Spurious Data (Band 25/2 – High Channel)

FCC ID: BCG-A2095			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Band 7

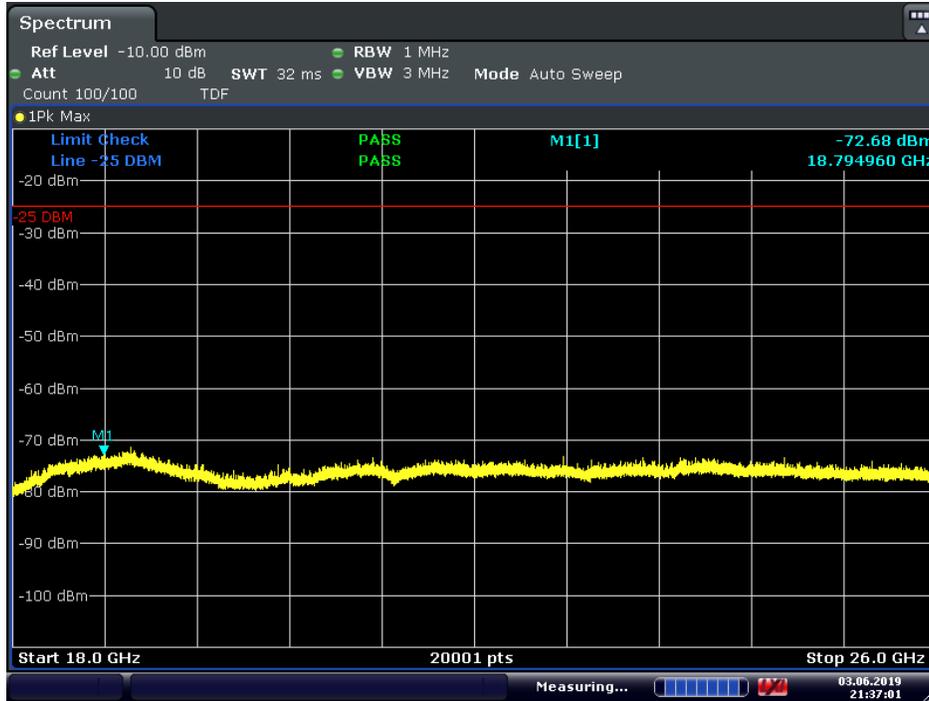


Plot 7-322. Radiated Spurious Plot 1GHz - 18GHz (Band 7)



Plot 7-323. Radiated Spurious Plot 18GHz – 26.5GHz (Band 7, Pol H)

FCC ID: BCG-A2095	PCTEST ENGINEERING LABORATORY, INC.		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1905130010-03.BCG	Test Dates: 05/01/2019 - 08/15/2019	EUT Type: Watch		Page 212 of 235



Plot 7-324. Radiated Spurious Plot 18GHz – 26.5GHz (Band 7, Pol V)

OPERATING FREQUENCY: 2510.00 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -25 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5020.00	V	-	-	-70.20	10.07	-60.13	-35.1
7530.00	V	-	-	-68.49	12.13	-56.36	-31.4
10040.00	V	-	-	-68.27	13.21	-55.06	-30.1

Table 7-34. Radiated Spurious Data (Band 7 – Low Channel)

FCC ID: BCG-A2095			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1905130010-03.BCG	Test Dates: 05/01/2019 - 08/15/2019	EUT Type: Watch		Page 213 of 235

OPERATING FREQUENCY: 2535.00 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -25 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5070.00	V	-	-	-71.74	10.12	-61.62	-36.6
7605.00	V	-	-	-71.47	12.30	-59.17	-34.2
10140.00	V	-	-	-71.12	13.19	-57.93	-32.9

Table 7-35. Radiated Spurious Data (Band 7 – Mid Channel)

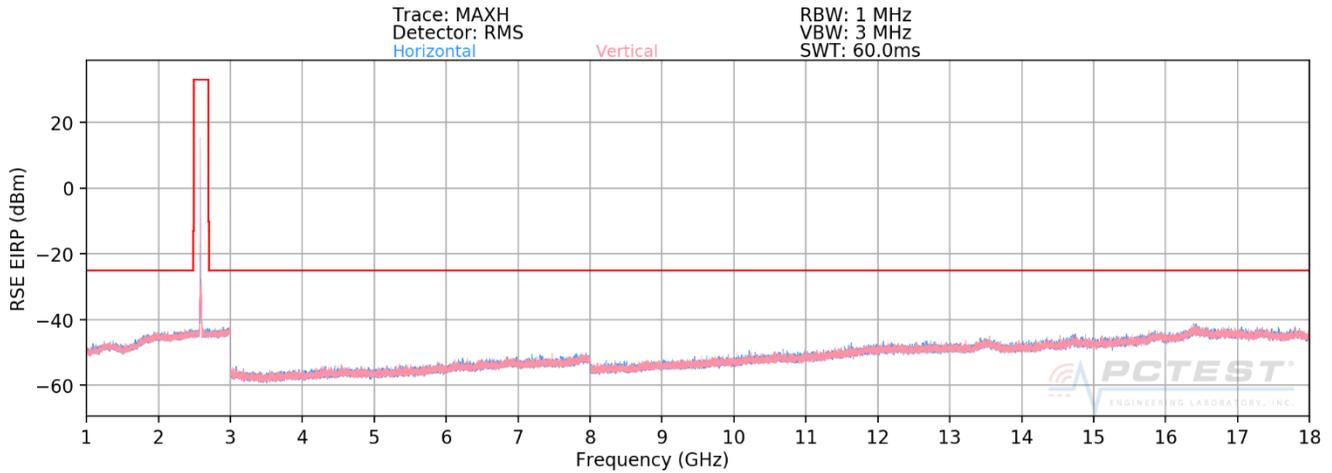
OPERATING FREQUENCY: 2560.00 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -25 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5120.00	V	111	54	-69.18	10.16	-59.02	-34.0
7680.00	V	103	43	-63.70	12.28	-51.42	-26.4
10240.00	V	-	-	-71.01	13.14	-57.87	-32.9
12800.00	V	-	-	-68.58	13.19	-55.39	-30.4
15360.00	V	-	-	-68.31	14.11	-54.20	-29.2

Table 7-36. Radiated Spurious Data (Band 7 – High Channel)

FCC ID: BCG-A2095			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Band 41



Plot 7-325. Radiated Spurious Plot 1GHz - 18GHz (Band 41)

OPERATING FREQUENCY: 2506.00 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -25 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5012.00	V	-	-	-62.33	10.07	-52.26	-27.3
7518.00	V	-	-	-62.27	12.12	-50.15	-25.1
10024.00	V	-	-	-62.62	13.22	-49.40	-24.4

Table 7-37. Radiated Spurious Data (Band 41 – Low Channel)

FCC ID: BCG-A2095			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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OPERATING FREQUENCY: 2593.00 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -25 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5186.00	V	-	-	-62.38	10.26	-52.12	-27.1
7779.00	V	-	-	-64.14	12.30	-51.84	-26.8
10372.00	V	-	-	-64.82	13.20	-51.62	-26.6

Table 7-38. Radiated Spurious Data (Band 41 – Mid Channel)

OPERATING FREQUENCY: 2680.00 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -25 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5360.00	V	-	-	-62.16	10.34	-51.82	-26.8
8040.00	V	-	-	-64.52	12.51	-52.01	-27.0
10720.00	V	-	-	-61.61	13.13	-48.48	-23.5

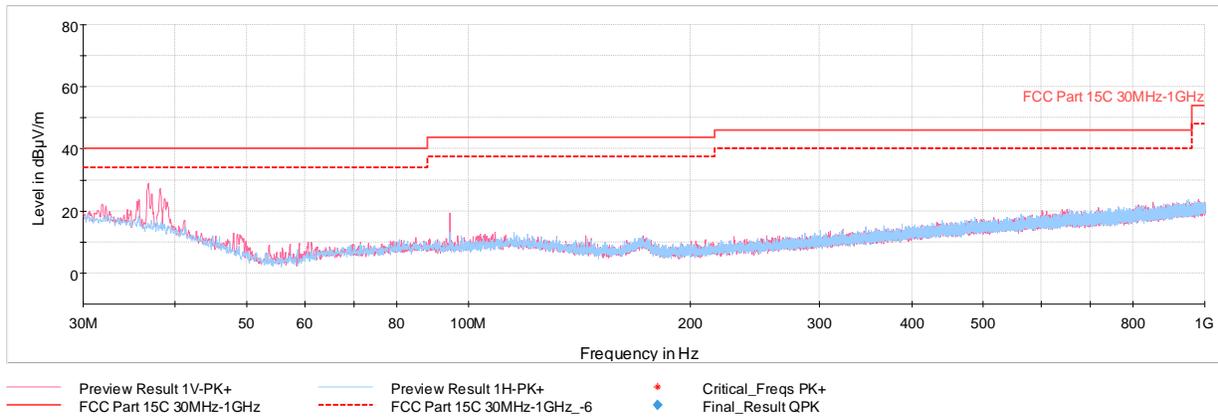
Table 7-39. Radiated Spurious Data (Band 41 – High Channel)

FCC ID: BCG-A2095			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Simultaneous Tx Radiated Spurious Measurements

Description	Bluetooth	LTE
Antenna	FCM	FCM
Channel	0	26365
Operating Frequency (MHz)	2402	1882.5
Mode/Modulation	GFSK/ePA	QPSK/1RB/20MHz

Table 7-40. Worst Case Simultaneous Transmission Config

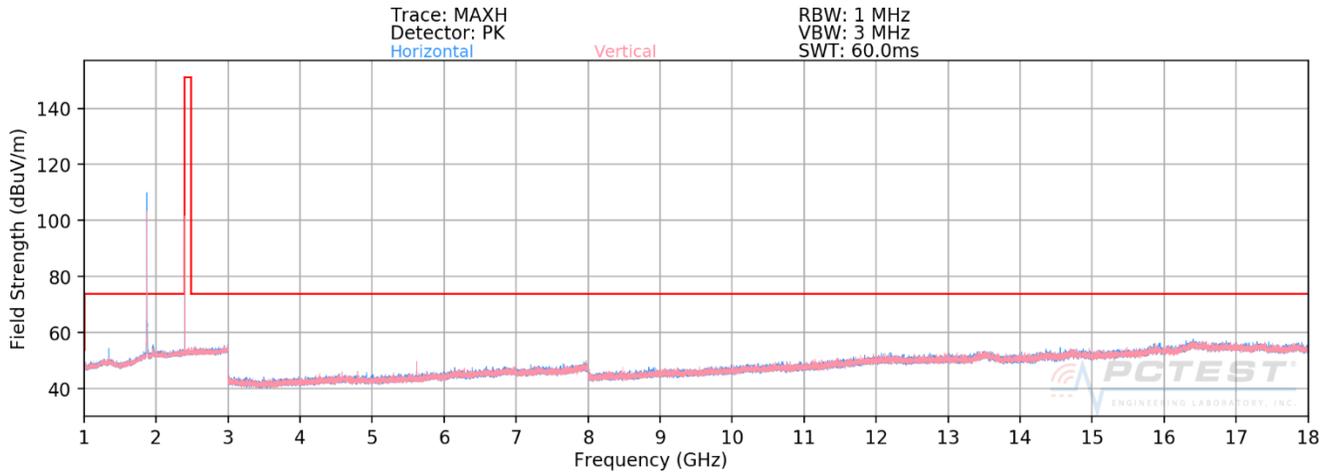


Plot 7-326. Radiated Spurious Plot Below 1GHz

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
36.79	Max Peak	V	100	294	-65.24	-12.90	28.86	40.00	-11.14
38.15	Max Peak	V	100	11	-66.22	-13.50	27.28	40.00	-12.72
48.09	Max Peak	V	100	200	-74.71	-20.15	12.14	40.00	-27.86
94.46	Max Peak	V	100	305	-69.46	-18.15	19.39	43.52	-24.13
144.32	Max Peak	V	100	15	-76.26	-18.88	11.86	43.52	-31.66
229.72	Max Peak	V	100	305	-78.07	-17.36	11.57	46.02	-34.45

Table 7-41. Radiated Spurious Measurements Below 1GHz

FCC ID: BCG-A2095			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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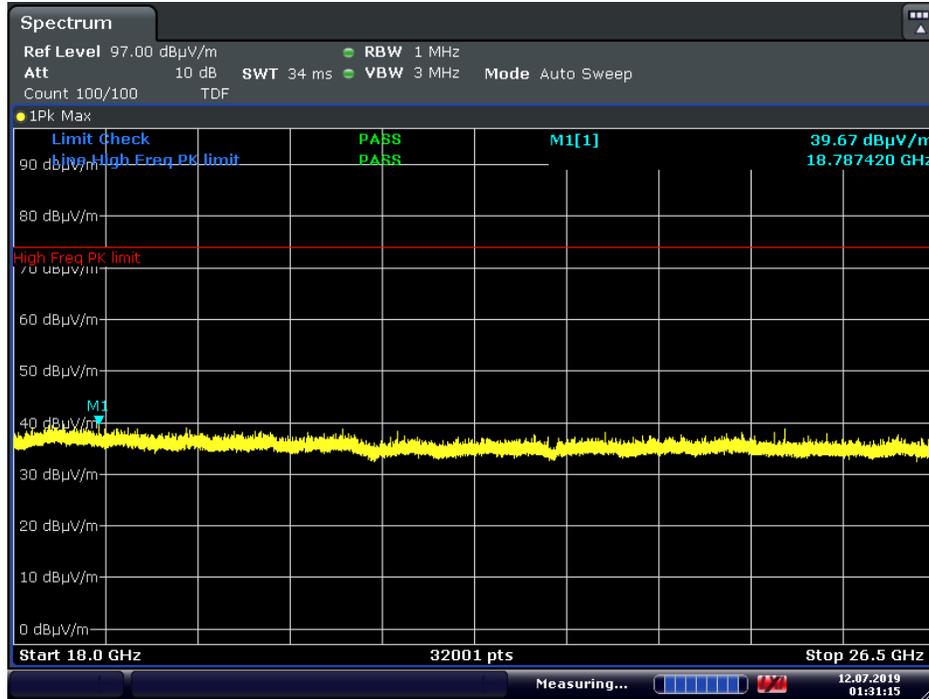


Plot 7-327. Radiated Spurious Plot Above 1GHz

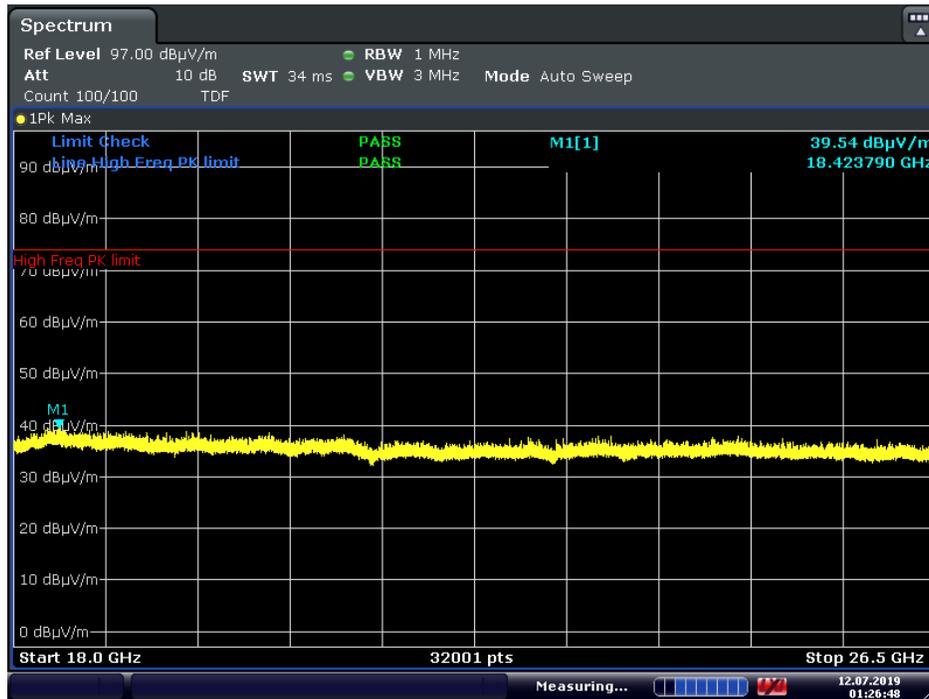
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3765.00	V	-	-	-70.63	8.48	-62.15	-13.00	-49.2
5647.50	V	105	132	-65.20	10.69	-54.51	-13.00	-41.5
7530.00	V	-	-	-70.76	11.99	-58.77	-13.00	-45.8
2921.50	V	-	-	-57.98	7.06	-50.92	-13.00	-37.9
1363.00	H	119	128	-48.67	3.44	-45.23	-13.00	-32.2

Table 7-42. Radiated Spurious Measurements Above 1GHz

FCC ID: BCG-A2095			MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Plot 7-328. Radiated Spurious Plot Above 18GHz (Ant. Pol. H)



Plot 7-329. Radiated Spurious Plot Above 18GHz (Ant. Pol. V)

FCC ID: BCG-A2095	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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7.8 Frequency Stability / Temperature Variation

Test Overview and Limit

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

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

For Part 22, the frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ (± 2.5 ppm) of the center frequency. For Part 24, Part 27, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Test Procedure Used

ANSI/TIA-603-E-2016

Test Settings

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

Test Setup



Figure 7-8. Test Instrument & Measurement Setup

Test Notes

None

FCC ID: BCG-A2095	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Band 12/17 Frequency Stability Measurements

OPERATING FREQUENCY: 707,500,000 Hz
 CHANNEL: 23790
 REFERENCE VOLTAGE: 3.80 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	707,500,005	5	0.0000008
100 %		- 20	707,500,005	5	0.0000006
100 %		- 10	707,500,005	5	0.0000007
100 %		0	707,500,005	5	0.0000007
100 %		+ 10	707,500,005	5	0.0000007
100 %		+ 20	707,500,005	5	0.0000007
100 %		+ 30	707,500,006	6	0.0000009
100 %		+ 40	707,500,006	6	0.0000009
100 %		+ 50	707,500,006	6	0.0000008
BATT. ENDPOINT		3.40	+ 20	707,500,006	6

Table 7-43. Frequency Stability Data (Band 12/17)

Note:

Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

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Band 12/17 Frequency Stability Measurements

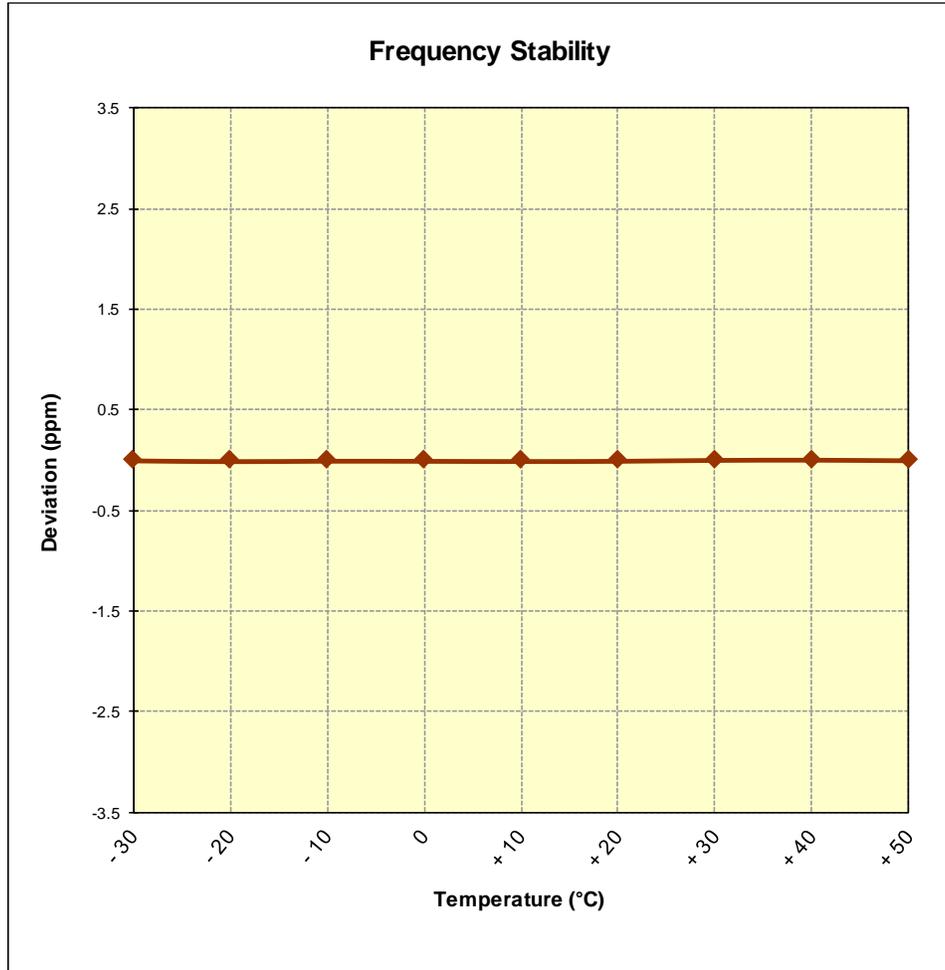


Figure 7-9. Frequency Stability Graph (Band 12/17)

FCC ID: BCG-A2095	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Band 13 Frequency Stability Measurements

OPERATING FREQUENCY: 782,000,000 Hz
 CHANNEL: 23230
 REFERENCE VOLTAGE: 3.80 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	782,000,007	7	0.0000009
100 %		- 20	782,000,006	6	0.0000007
100 %		- 10	782,000,006	6	0.0000007
100 %		0	782,000,005	5	0.0000006
100 %		+ 10	782,000,007	7	0.0000008
100 %		+ 20	782,000,007	7	0.0000009
100 %		+ 30	782,000,007	7	0.0000009
100 %		+ 40	782,000,008	8	0.0000010
100 %		+ 50	782,000,008	8	0.0000010
BATT. ENDPOINT		3.40	+ 20	782,000,007	7

Table 7-44. Frequency Stability Data (Band 13)

Note:

Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

FCC ID: BCG-A2095	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Band 13 Frequency Stability Measurements

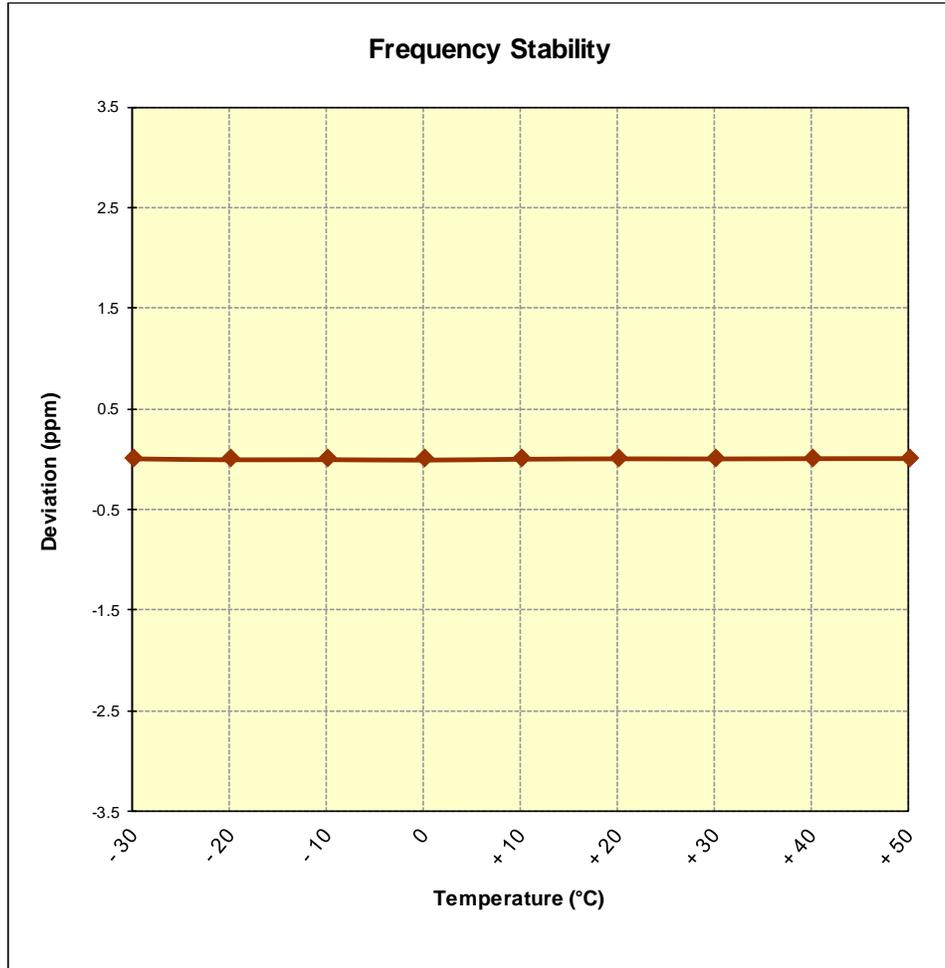


Figure 7-10. Frequency Stability Graph (Band 13)

FCC ID: BCG-A2095	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Band 26/5 Frequency Stability Measurements

OPERATING FREQUENCY: 836,500,000 Hz
 CHANNEL: 20525
 REFERENCE VOLTAGE: 3.80 VDC
 DEVIATION LIMIT: ± 0.00025 % or 2.5 ppm

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	836,500,006	6	0.0000007
100 %		- 20	836,500,004	4	0.0000005
100 %		- 10	836,500,005	5	0.0000006
100 %		0	836,500,004	4	0.0000005
100 %		+ 10	836,500,005	5	0.0000006
100 %		+ 20	836,500,006	6	0.0000007
100 %		+ 30	836,499,993	-7	-0.0000008
100 %		+ 40	836,500,005	5	0.0000007
100 %		+ 50	836,500,005	5	0.0000006
BATT. ENDPOINT		3.40	+ 20	836,500,005	5

Table 7-45. Frequency Stability Data (Band 26/5)

FCC ID: BCG-A2095	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Band 26/5 Frequency Stability Measurements

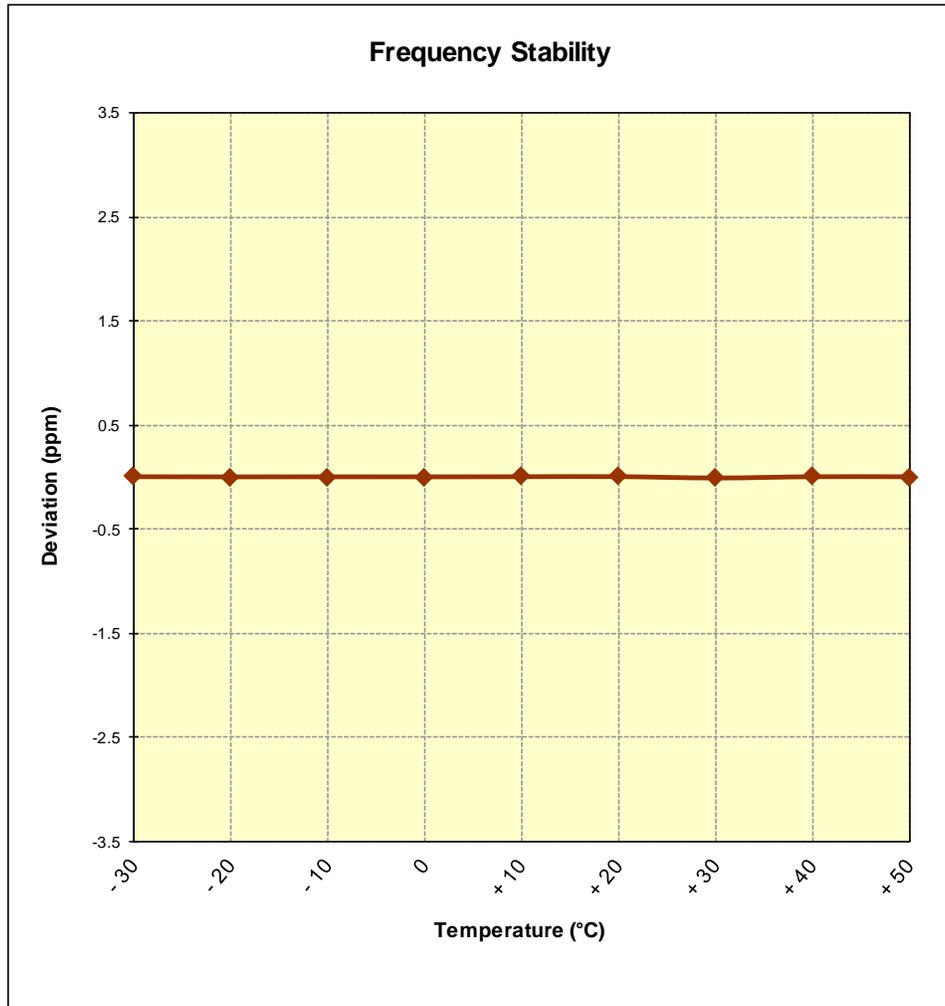


Figure 7-11. Frequency Stability Graph (Band 26/5)

FCC ID: BCG-A2095	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1905130010-03.BCG	Test Dates: 05/01/2019 - 08/15/2019	EUT Type: Watch	Page 226 of 235

Band 66/4 Frequency Stability Measurements

OPERATING FREQUENCY: 1,745,000,000 Hz
 CHANNEL: 132322
 REFERENCE VOLTAGE: 3.80 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	1,745,000,006	6	0.0000004
100 %		- 20	1,744,999,993	-7	-0.0000004
100 %		- 10	1,744,999,994	-6	-0.0000003
100 %		0	1,745,000,007	7	0.0000004
100 %		+ 10	1,745,000,008	8	0.0000005
100 %		+ 20	1,745,000,009	9	0.0000005
100 %		+ 30	1,745,000,012	12	0.0000007
100 %		+ 40	1,745,000,010	10	0.0000006
100 %		+ 50	1,745,000,011	11	0.0000006
BATT. ENDPOINT		3.40	+ 20	1,745,000,007	7

Table 7-46. Frequency Stability Data (Band 66/4)

Note:

Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

FCC ID: BCG-A2095	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Band 66/4 Frequency Stability Measurements

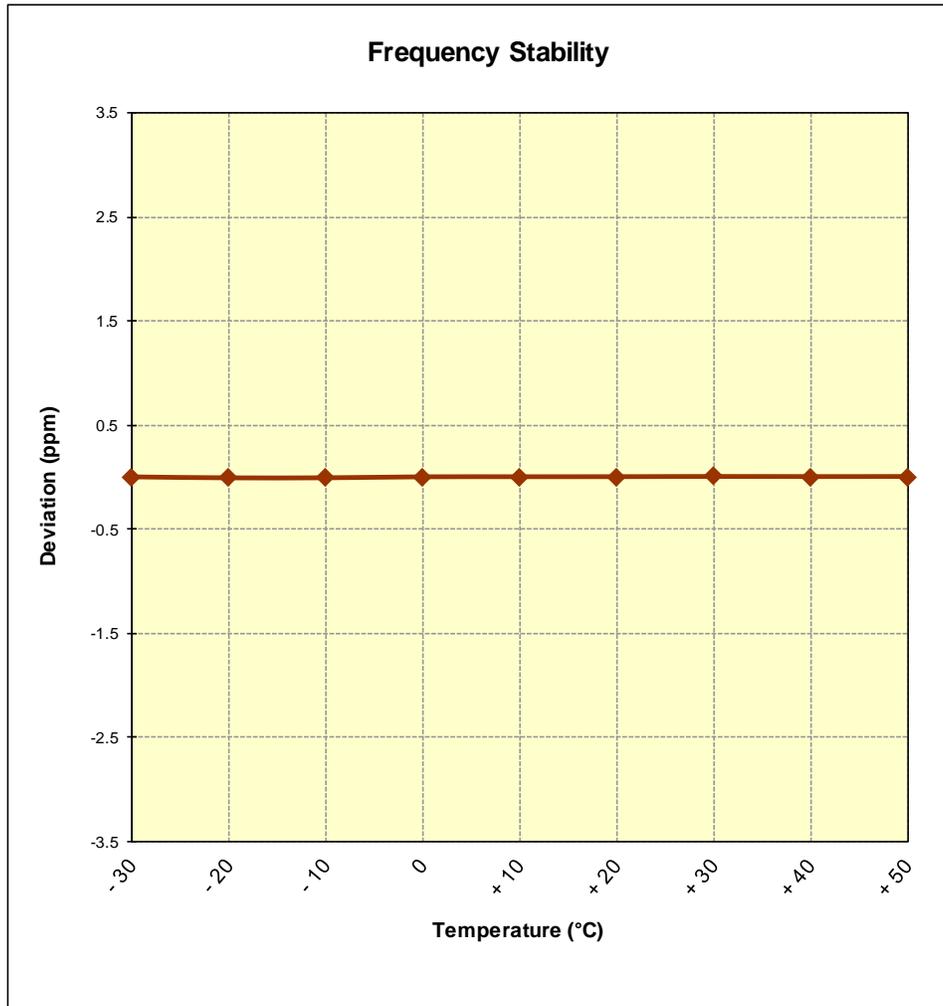


Figure 7-12. Frequency Stability Graph (Band 66/4)

FCC ID: BCG-A2095	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Band 25/2 Frequency Stability Measurements

OPERATING FREQUENCY: 1,882,500,000 Hz
 CHANNEL: 26365
 REFERENCE VOLTAGE: 3.80 VDC
 DEVIATION LIMIT: ± 0.00025 % or 2.5 ppm

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	1,882,500,007	7	0.0000004
100 %		- 20	1,882,500,009	9	0.0000005
100 %		- 10	1,882,500,008	8	0.0000004
100 %		0	1,882,500,007	7	0.0000004
100 %		+ 10	1,882,500,008	8	0.0000004
100 %		+ 20	1,882,500,009	9	0.0000005
100 %		+ 30	1,882,500,012	12	0.0000006
100 %		+ 40	1,882,500,012	12	0.0000007
100 %		+ 50	1,882,500,014	14	0.0000007
BATT. ENDPOINT		3.40	+ 20	1,882,500,009	9

Table 7-47. Frequency Stability Data (Band 25/2)

FCC ID: BCG-A2095	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1905130010-03.BCG	Test Dates: 05/01/2019 - 08/15/2019	EUT Type: Watch	Page 229 of 235

Band 25/2 Frequency Stability Measurements

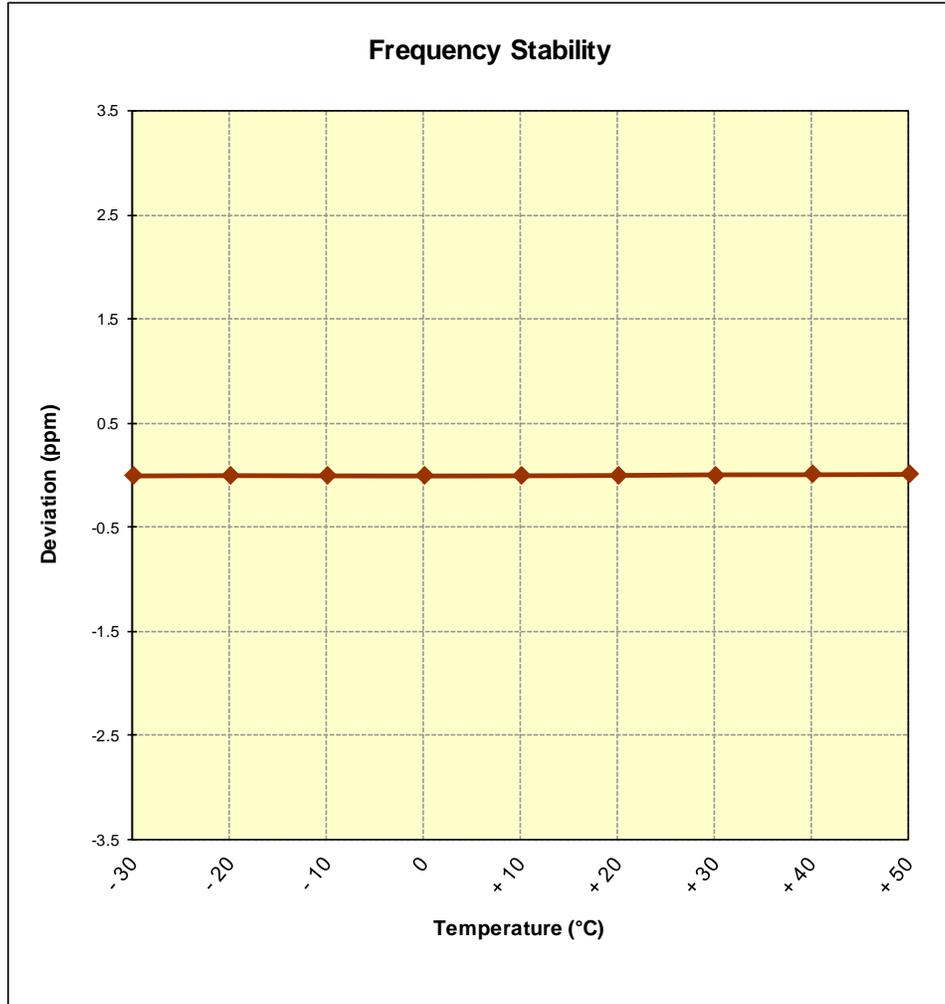


Figure 7-13. Frequency Stability Graph (Band 25/2)

FCC ID: BCG-A2095	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Band 7 Frequency Stability Measurements

OPERATING FREQUENCY: 2,535,000,000 Hz
 CHANNEL: 21100
 REFERENCE VOLTAGE: 3.80 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	2,535,000,012	12	0.0000005
100 %		- 20	2,535,000,012	12	0.0000005
100 %		- 10	2,535,000,013	13	0.0000005
100 %		0	2,535,000,011	11	0.0000004
100 %		+ 10	2,535,000,012	12	0.0000005
100 %		+ 20	2,535,000,016	16	0.0000006
100 %		+ 30	2,535,000,017	17	0.0000007
100 %		+ 40	2,535,000,016	16	0.0000006
100 %		+ 50	2,535,000,018	18	0.0000007
BATT. ENDPOINT	3.40	+ 20	2,535,000,020	20	0.0000008

Table 7-48. Frequency Stability Data (Band 7)

Note:

Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

FCC ID: BCG-A2095	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Band 7 Frequency Stability Measurements

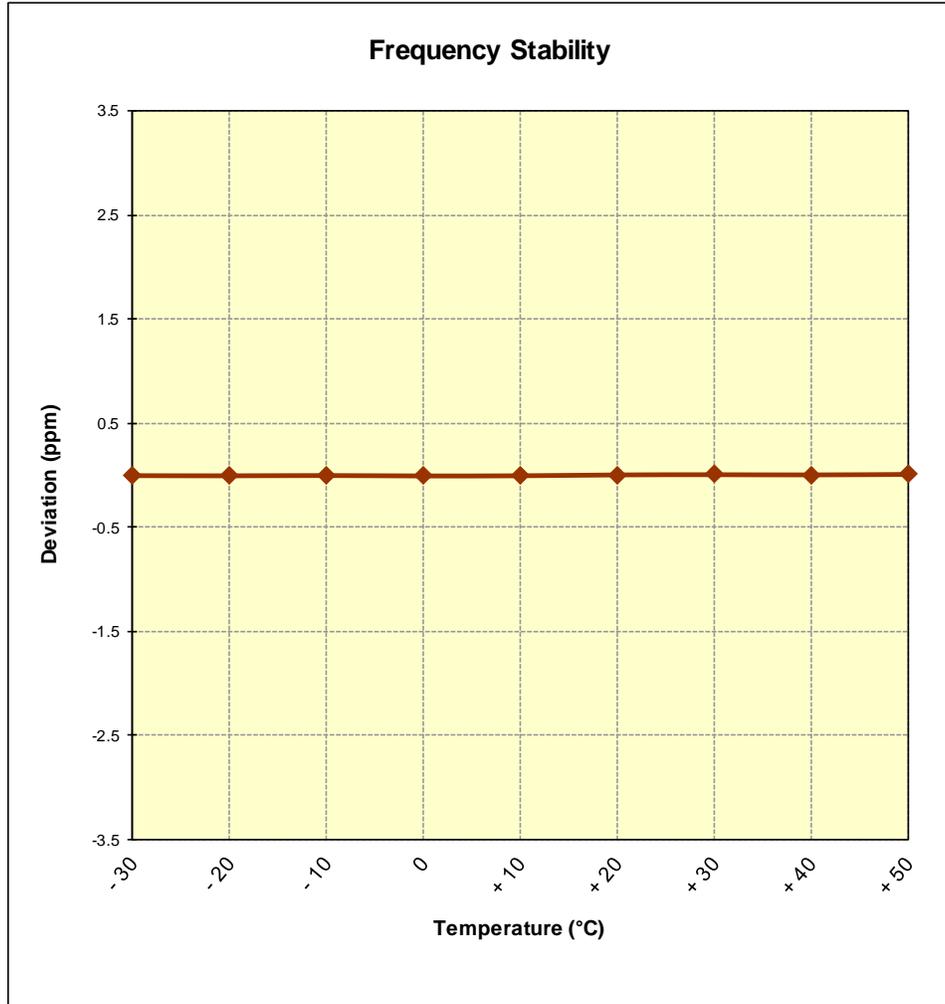


Figure 7-14. Frequency Stability Graph (Band 7)

FCC ID: BCG-A2095	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Band 41 Frequency Stability Measurements

OPERATING FREQUENCY:	2,593,000,000	Hz
CHANNEL:	40620	
REFERENCE VOLTAGE:	3.80	VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	2,593,000,023	23	0.0000009
100 %		- 20	2,593,000,023	23	0.0000009
100 %		- 10	2,593,000,021	21	0.0000008
100 %		0	2,593,000,022	22	0.0000009
100 %		+ 10	2,593,000,023	23	0.0000009
100 %		+ 20	2,593,000,056	56	0.0000021
100 %		+ 30	2,593,000,061	61	0.0000023
100 %		+ 40	2,593,000,064	64	0.0000025
100 %		+ 50	2,593,000,064	64	0.0000025
BATT. ENDPOINT		3.40	+ 20	2,593,000,062	62

Table 7-49. Frequency Stability Data (Band 41)

Note:

Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

FCC ID: BCG-A2095		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Band 41 Frequency Stability Measurements

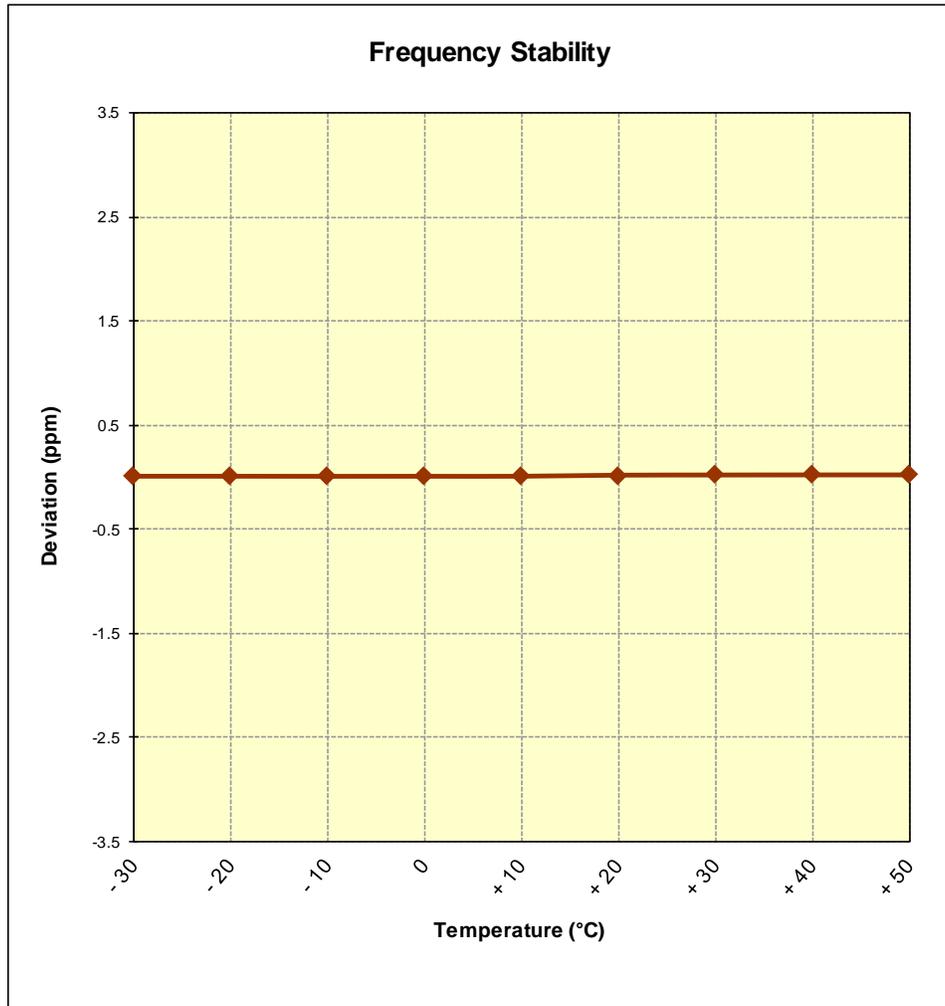


Figure 7-15. Frequency Stability Graph (Band 41)

FCC ID: BCG-A2095	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Apple Watch FCC ID: BCG-A2095** complies with all the requirements of Part 22, 24, & 27 of the FCC Rules for LTE operation only.

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Test Report S/N: 1C1905130010-03.BCG	Test Dates: 05/01/2019 - 08/15/2019	EUT Type: Watch	Page 235 of 235