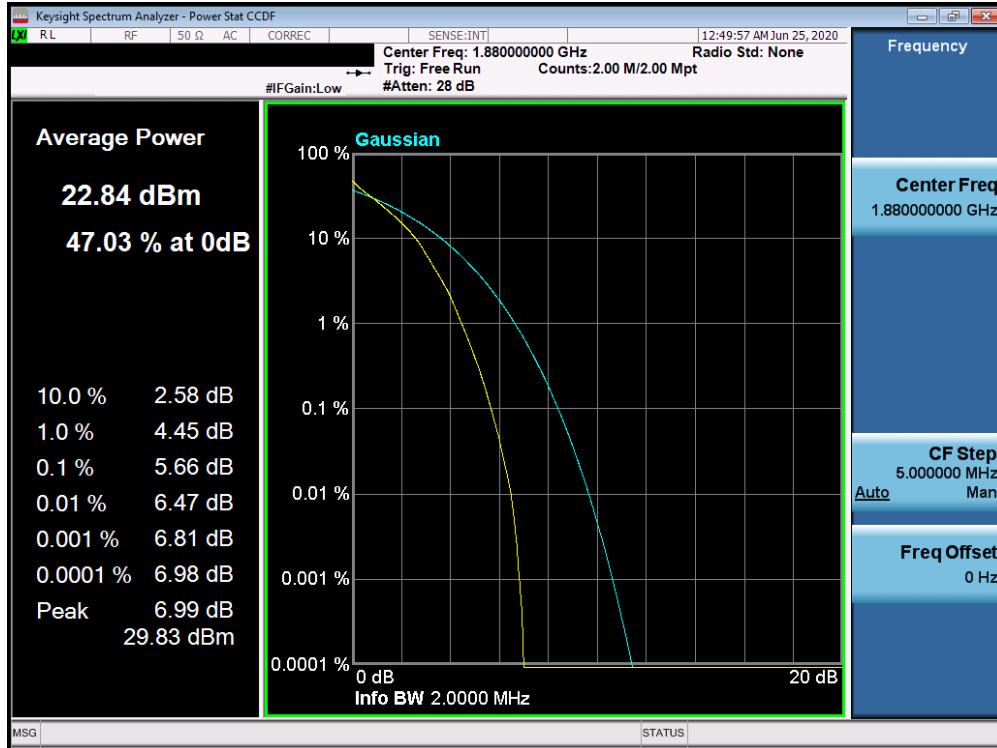
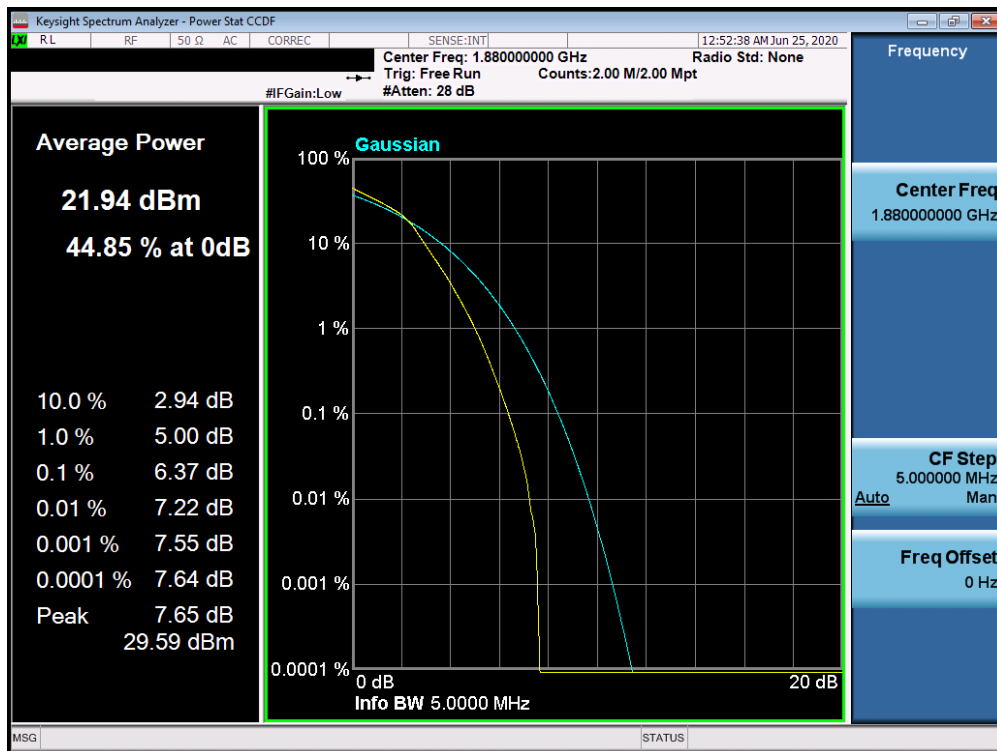


Band 2

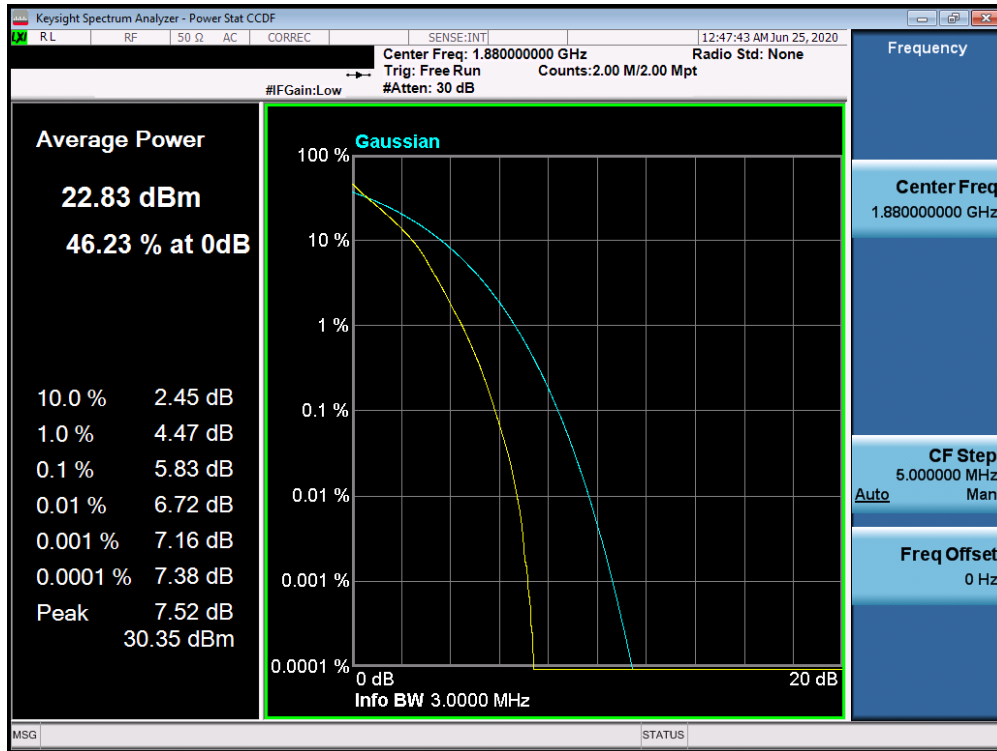


Plot 7-296. PAR Plot (Band 2 - 1.4MHz QPSK - Full RB Configuration)

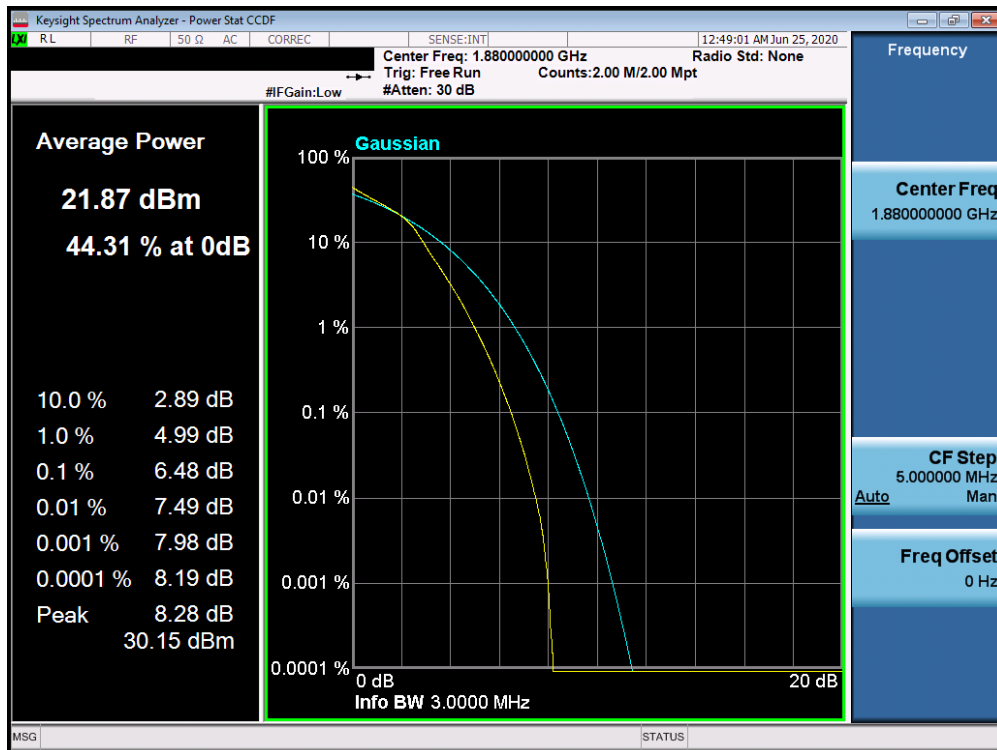


Plot 7-297. PAR Plot (Band 2 - 1.4MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A2353	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270023-03.BCG	Test Dates: 06/12/2020-08/20/2020	EUT Type: Watch	Page 176 of 238

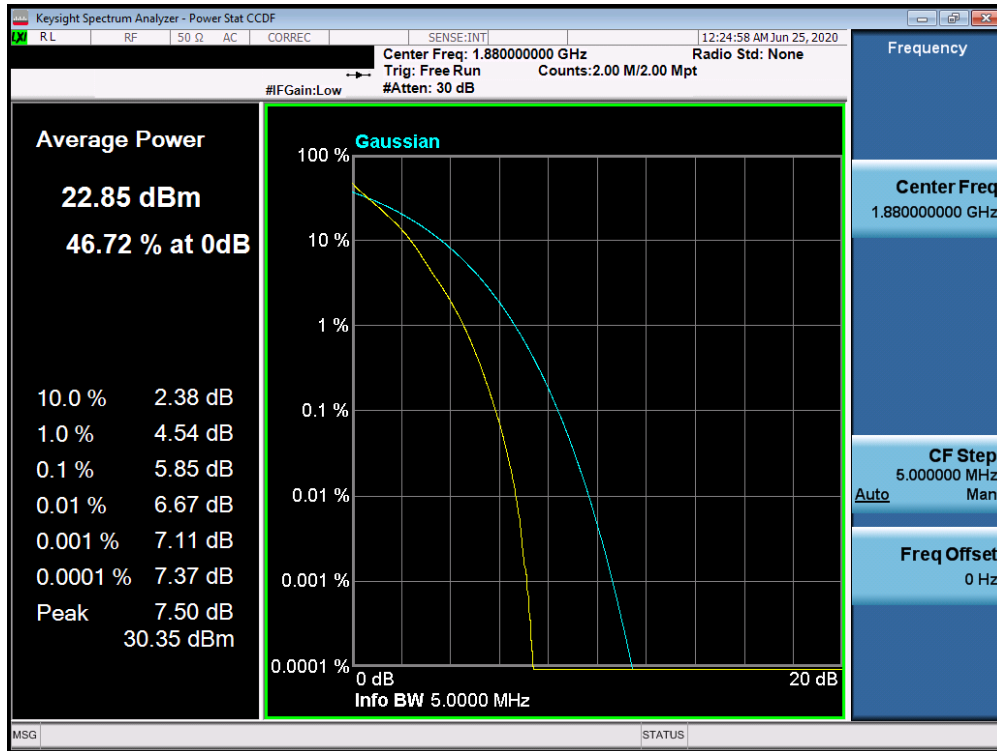


Plot 7-298. PAR Plot (Band 2 - 3.0MHz QPSK - Full RB Configuration)

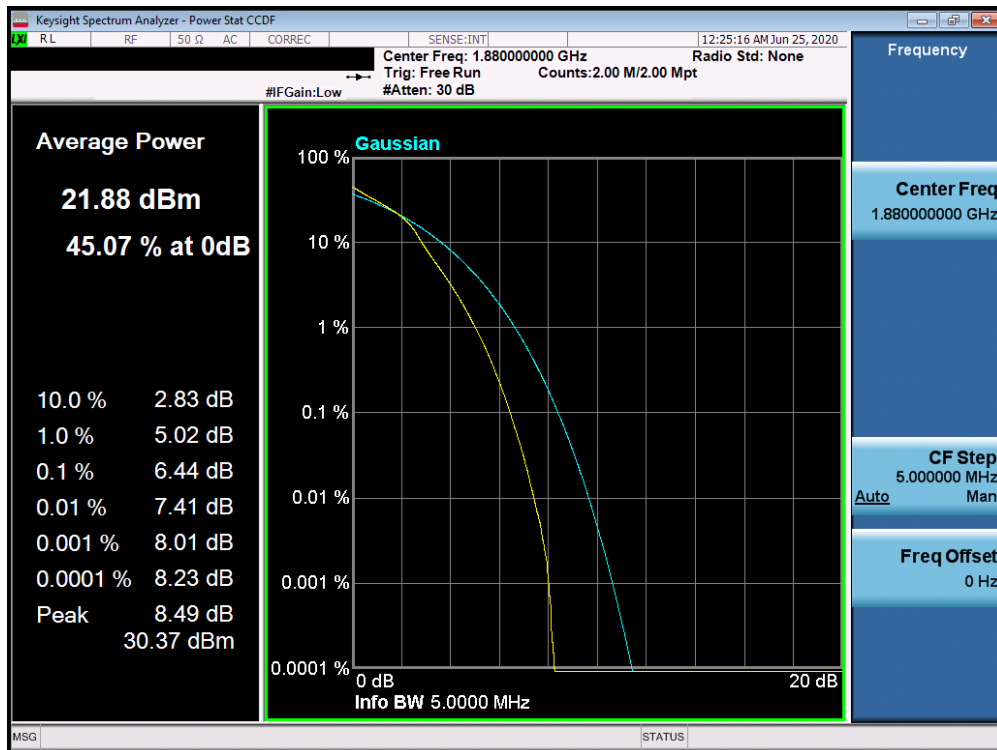


Plot 7-299. PAR Plot (Band 2 - 3.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A2353	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270023-03.BCG	Test Dates: 06/12/2020-08/20/2020	EUT Type: Watch	Page 177 of 238

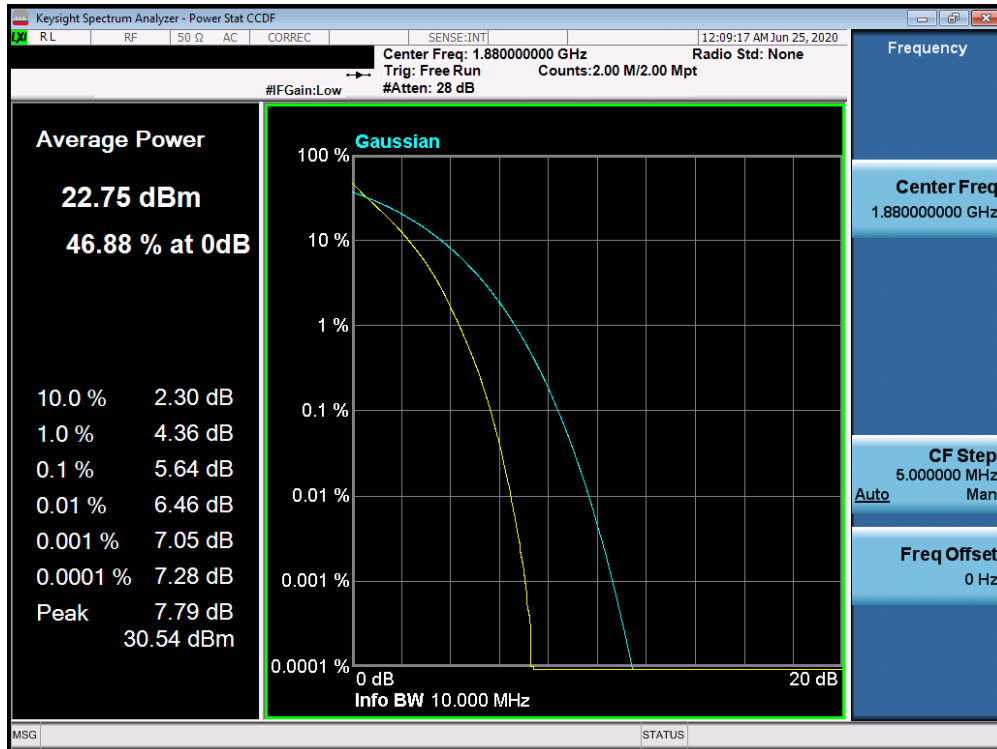


Plot 7-300. PAR Plot (Band 2 - 5.0MHz QPSK - Full RB Configuration)

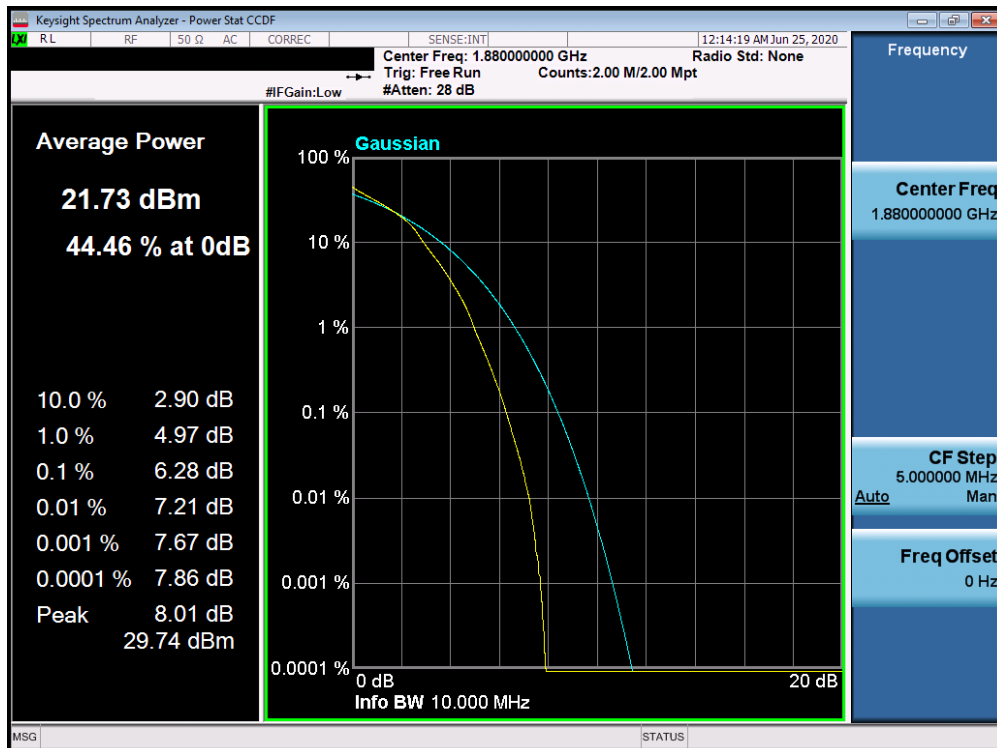


Plot 7-301. PAR Plot (Band 2 - 5.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A2353	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270023-03.BCG	Test Dates: 06/12/2020-08/20/2020	EUT Type: Watch	Page 178 of 238

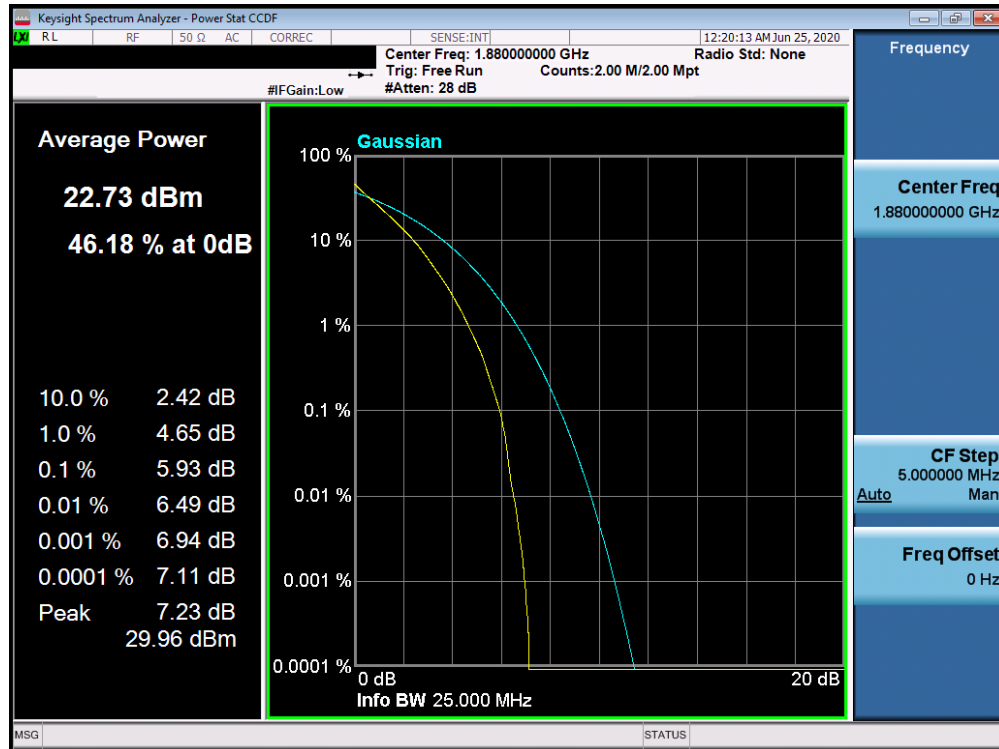


Plot 7-302. PAR Plot (Band 2 - 10.0MHz QPSK - Full RB Configuration)

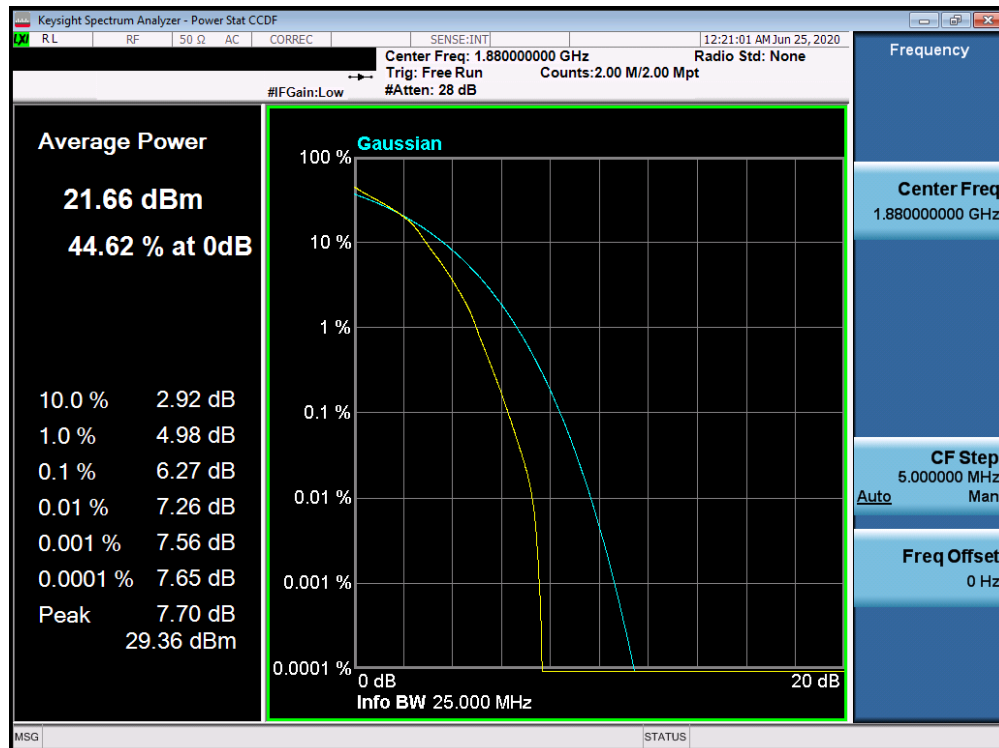


Plot 7-303. PAR Plot (Band 2 - 10.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A2353	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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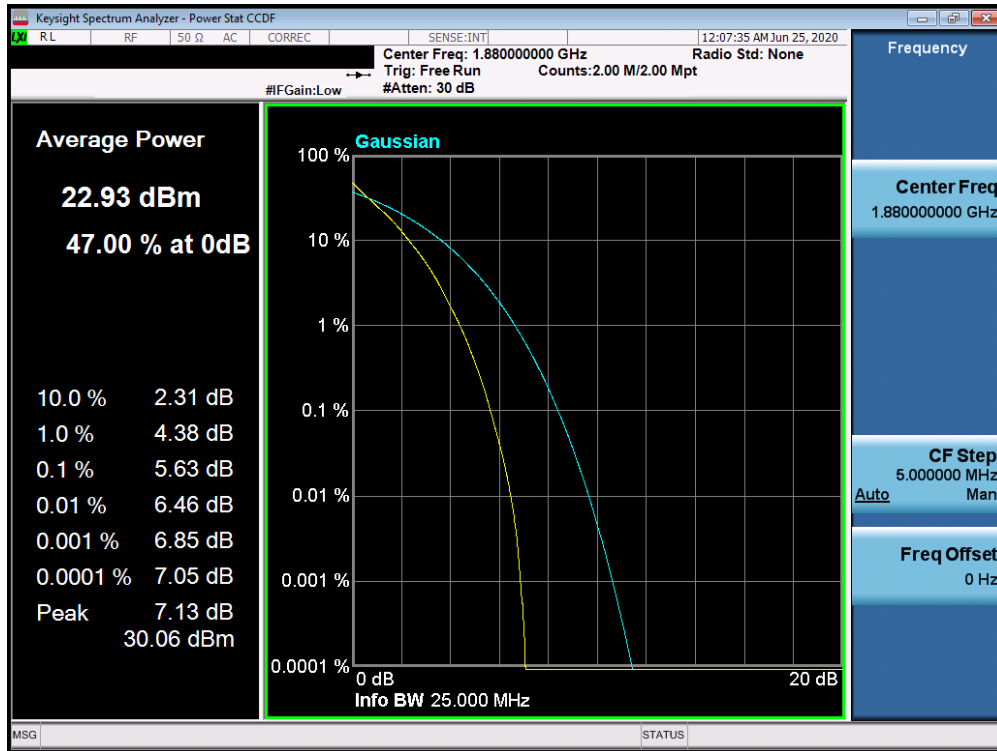


Plot 7-304. PAR Plot (Band 2 - 15.0MHz QPSK - Full RB Configuration)

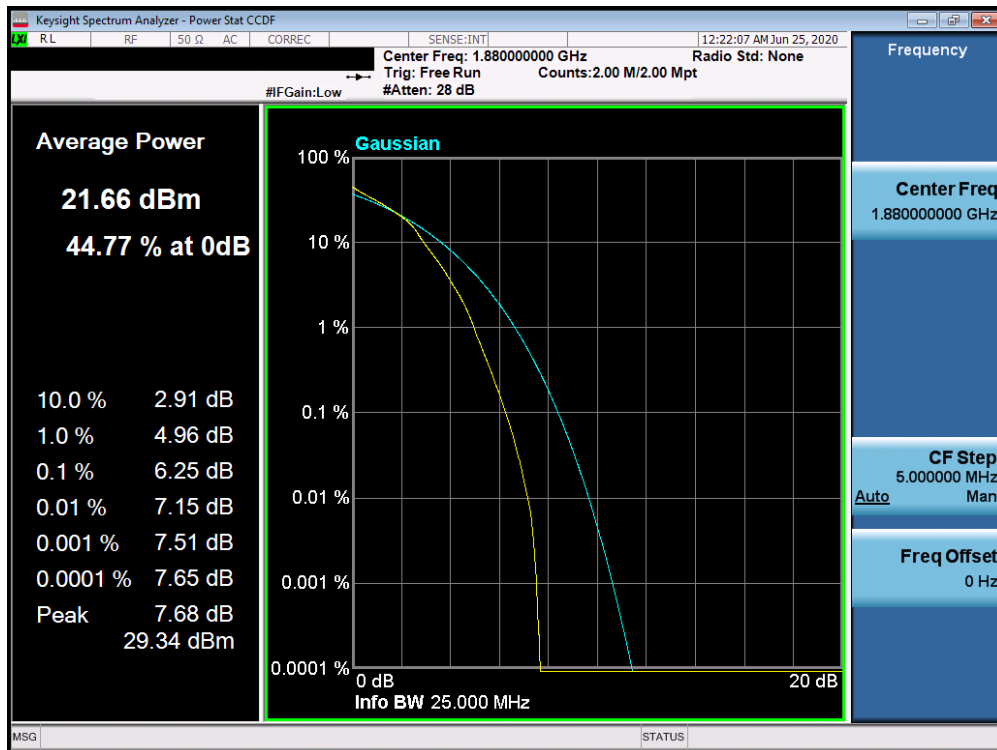


Plot 7-305. PAR Plot (Band 2 - 15.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A2353	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270023-03.BCG	Test Dates: 06/12/2020-08/20/2020	EUT Type: Watch	Page 180 of 238



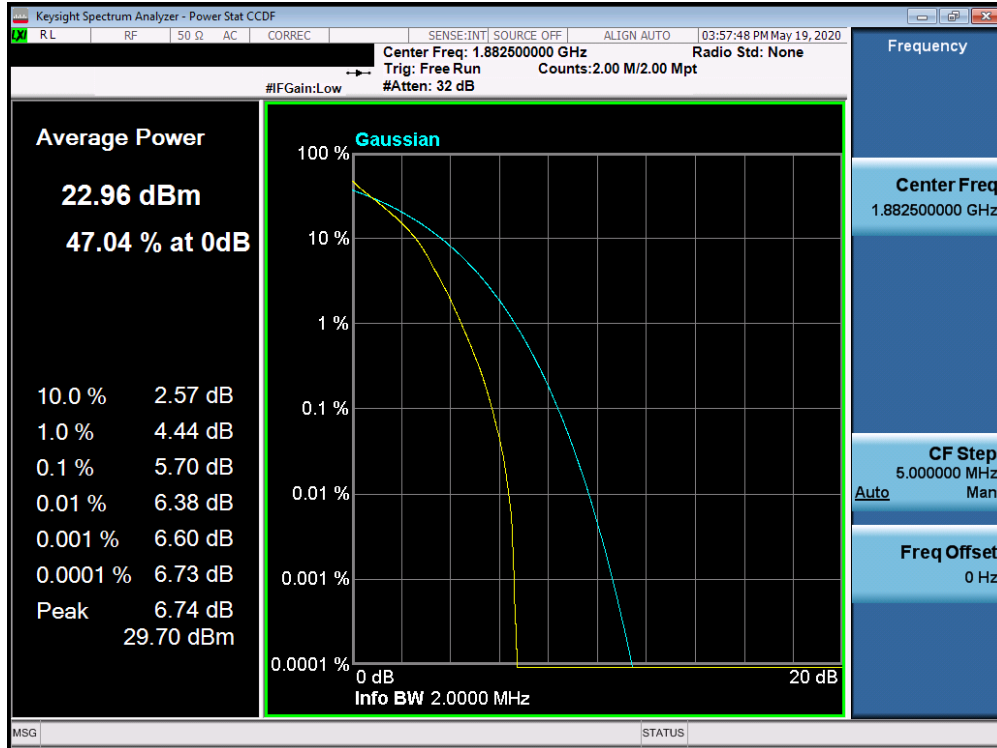
Plot 7-306. PAR Plot (Band 2 - 20.0MHz QPSK - Full RB Configuration)



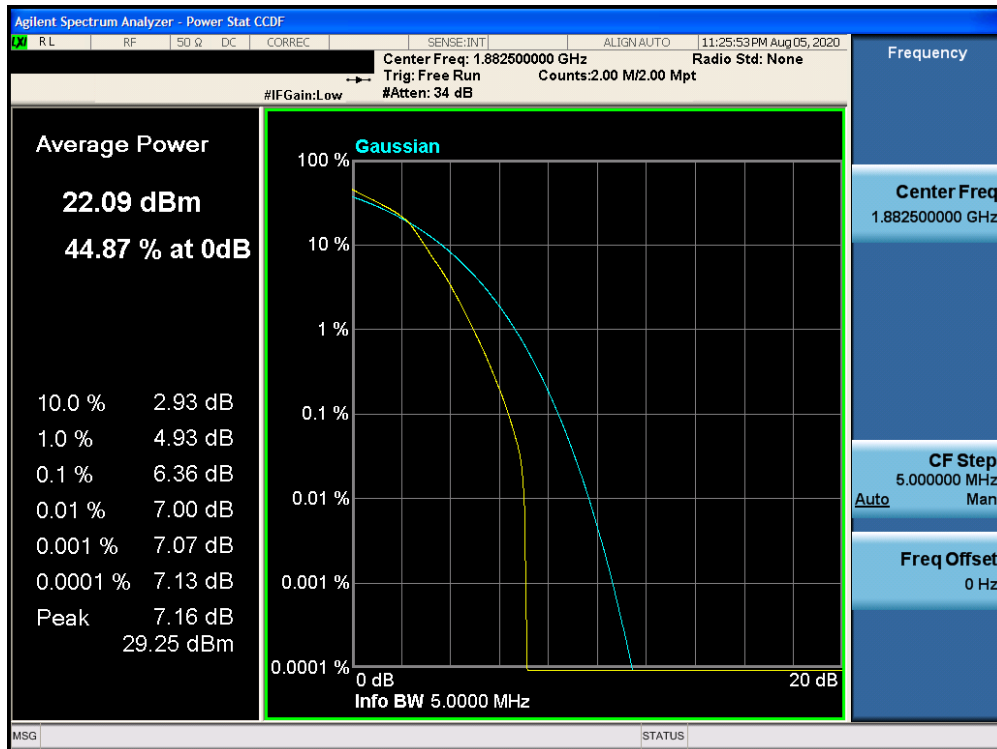
Plot 7-307. PAR Plot (Band 2 - 20.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A2353	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Band 25

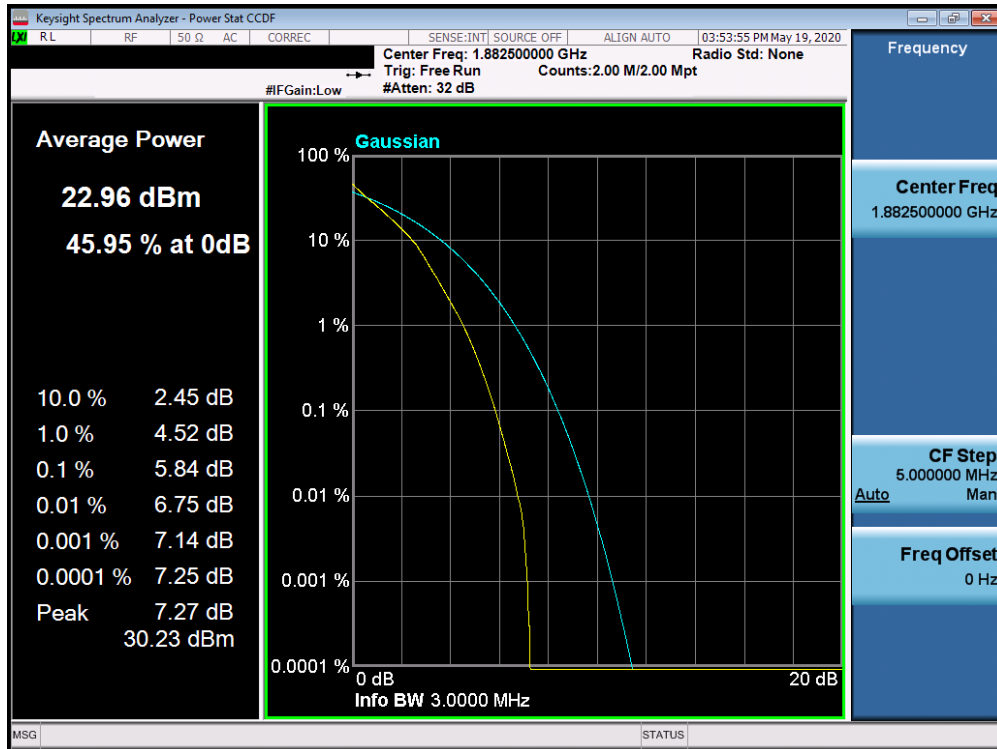


Plot 7-308. PAR Plot (Band 25 - 1.4MHz QPSK - Full RB Configuration)

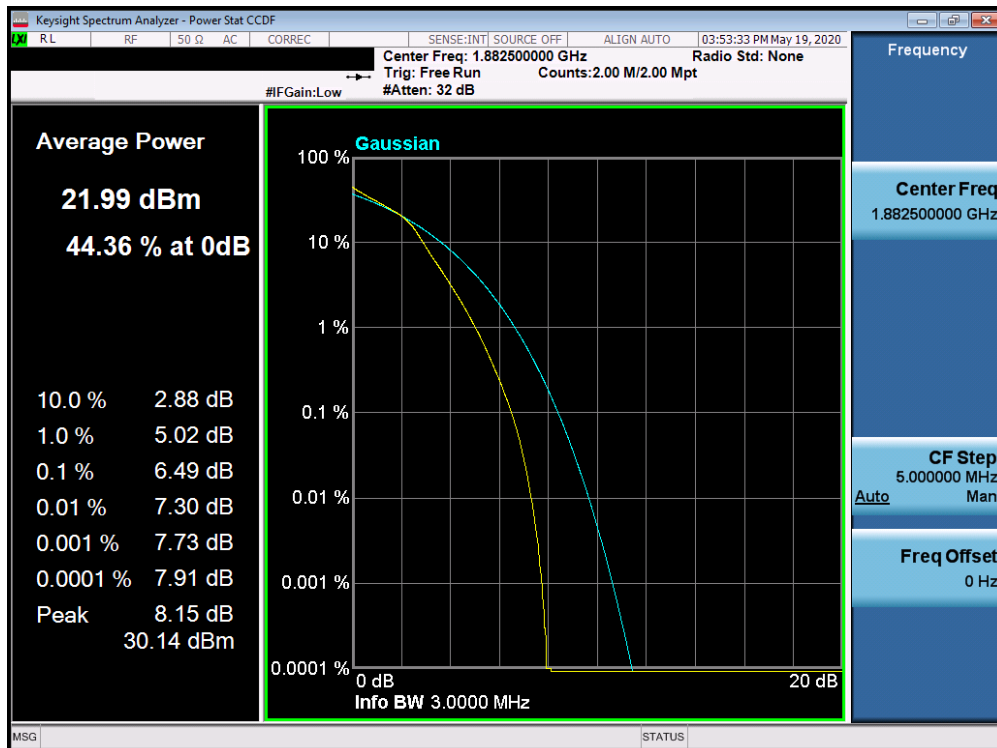


Plot 7-309. PAR Plot (Band 25 - 1.4MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A2353	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270023-03.BCG	Test Dates: 06/12/2020-08/20/2020	EUT Type: Watch	Page 182 of 238

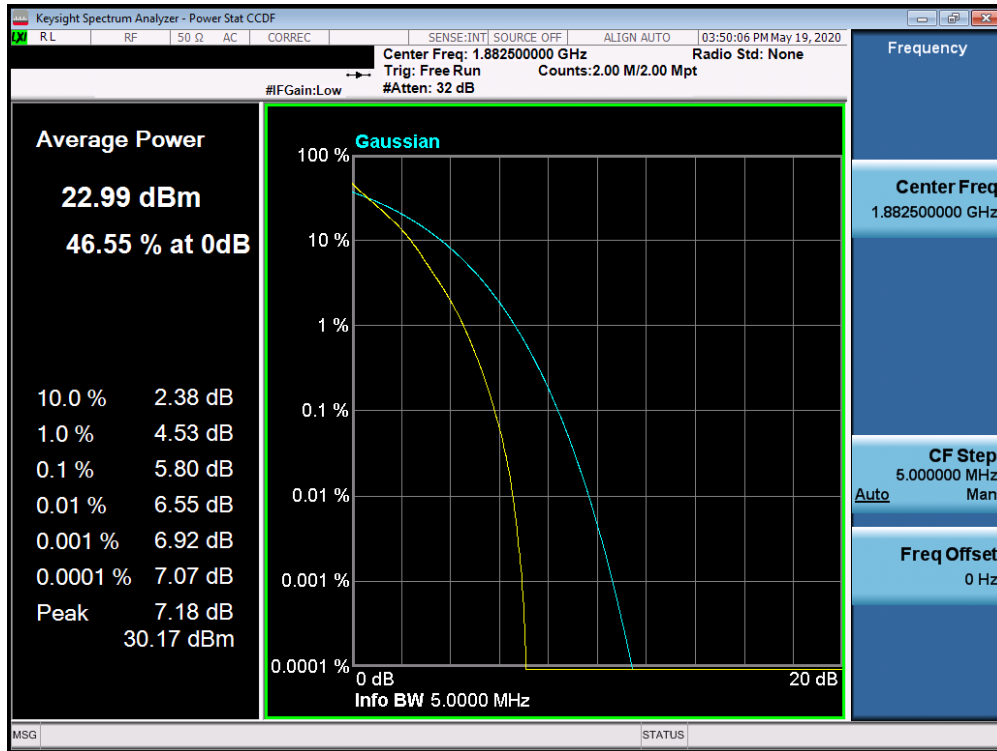


Plot 7-310. PAR Plot (Band 25 - 3.0MHz QPSK - Full RB Configuration)

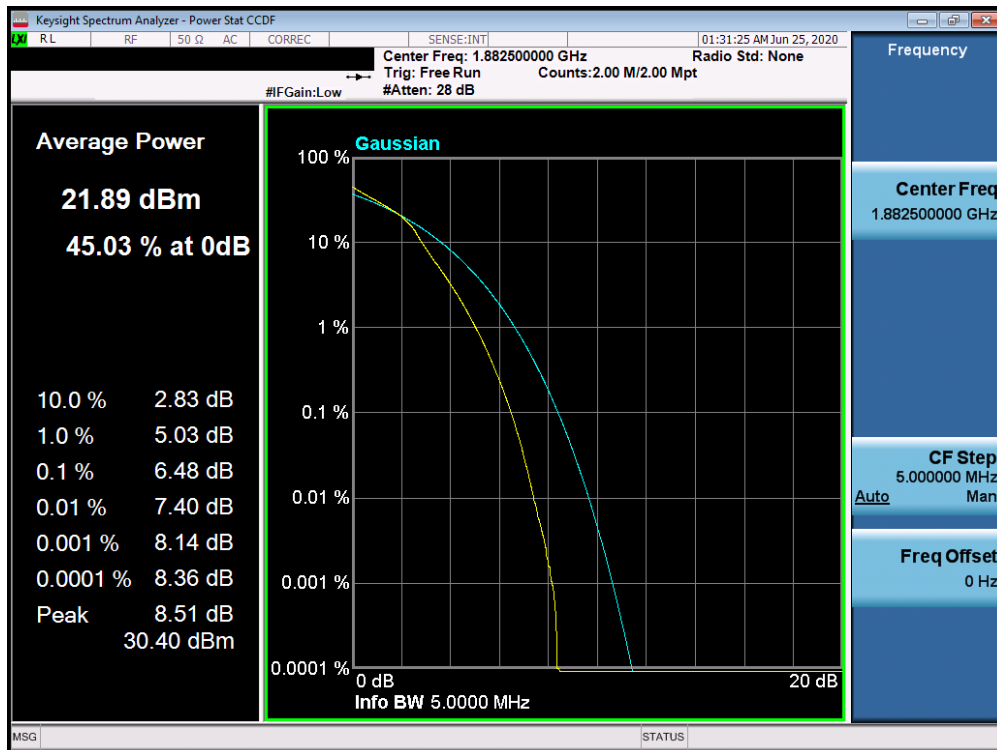


Plot 7-311. PAR Plot (Band 25 - 3.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A2353	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270023-03.BCG	Test Dates: 06/12/2020-08/20/2020	EUT Type: Watch	Page 183 of 238

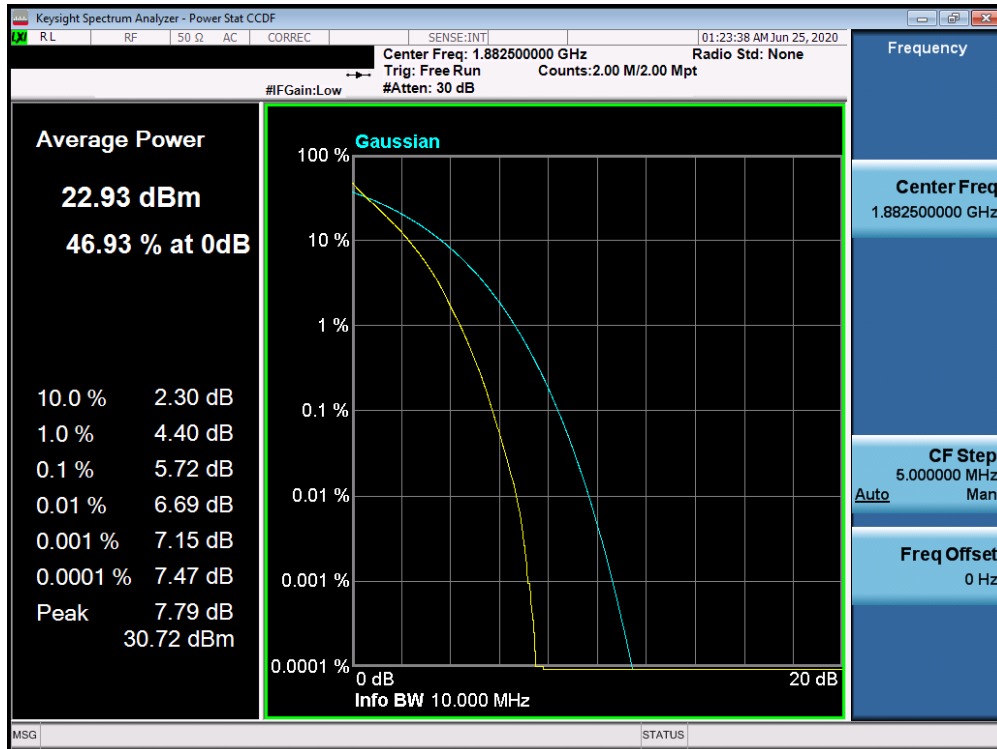


Plot 7-312. PAR Plot (Band 25 - 5.0MHz QPSK - Full RB Configuration)

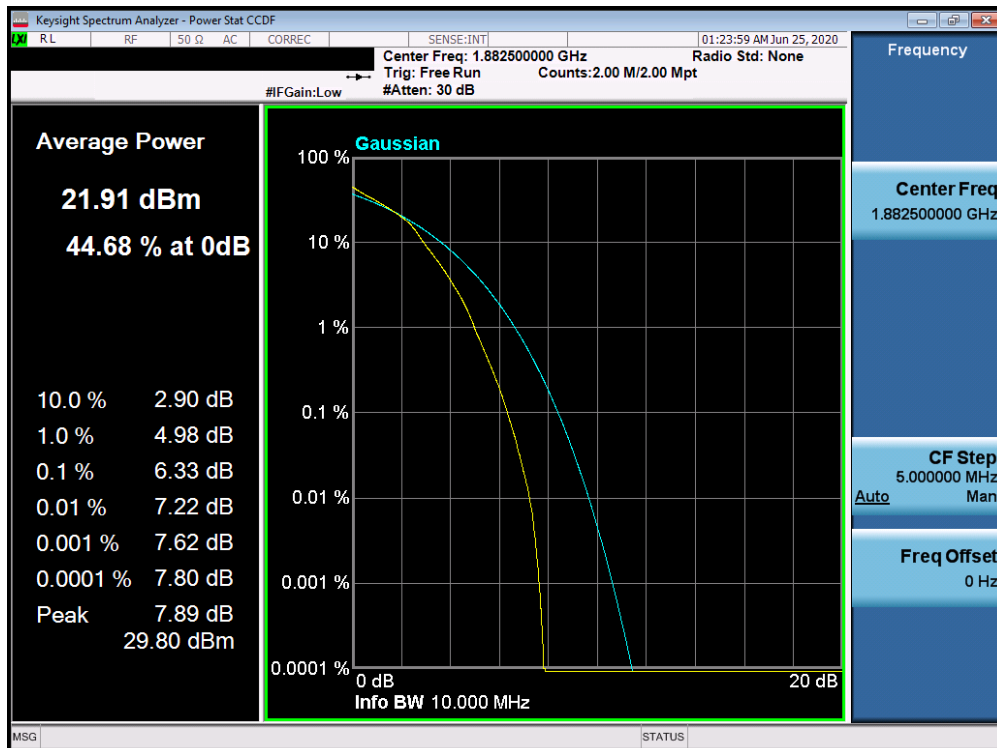


Plot 7-313. PAR Plot (Band 25 - 5.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A2353	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270023-03.BCG	Test Dates: 06/12/2020-08/20/2020	EUT Type: Watch	Page 184 of 238

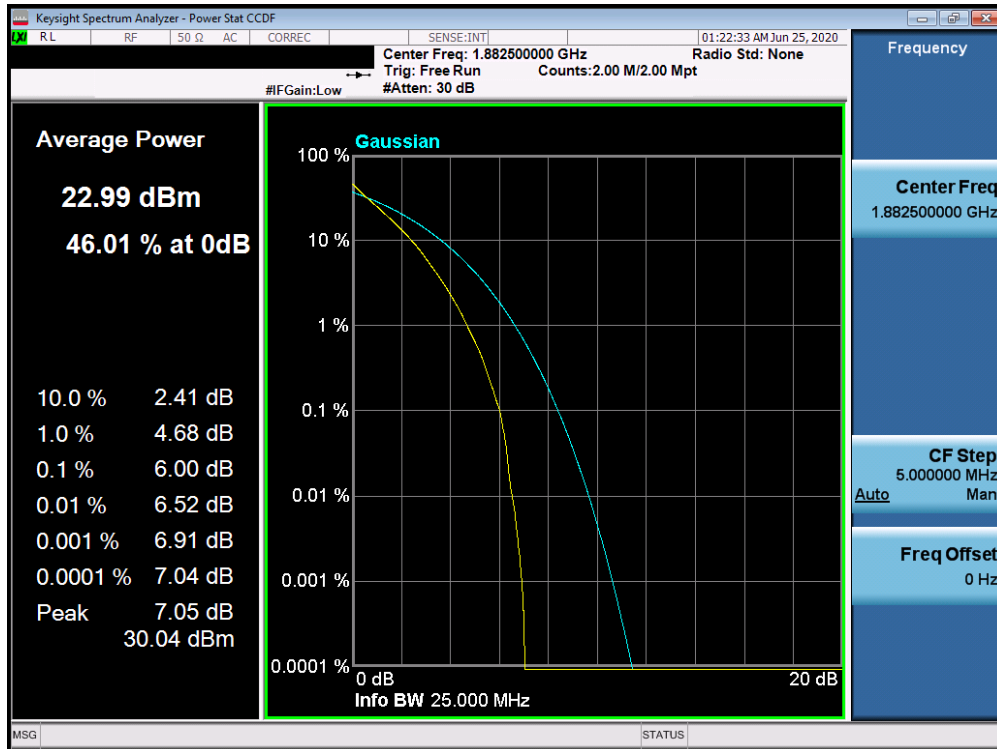


Plot 7-314. PAR Plot (Band 25 - 10.0MHz QPSK - Full RB Configuration)

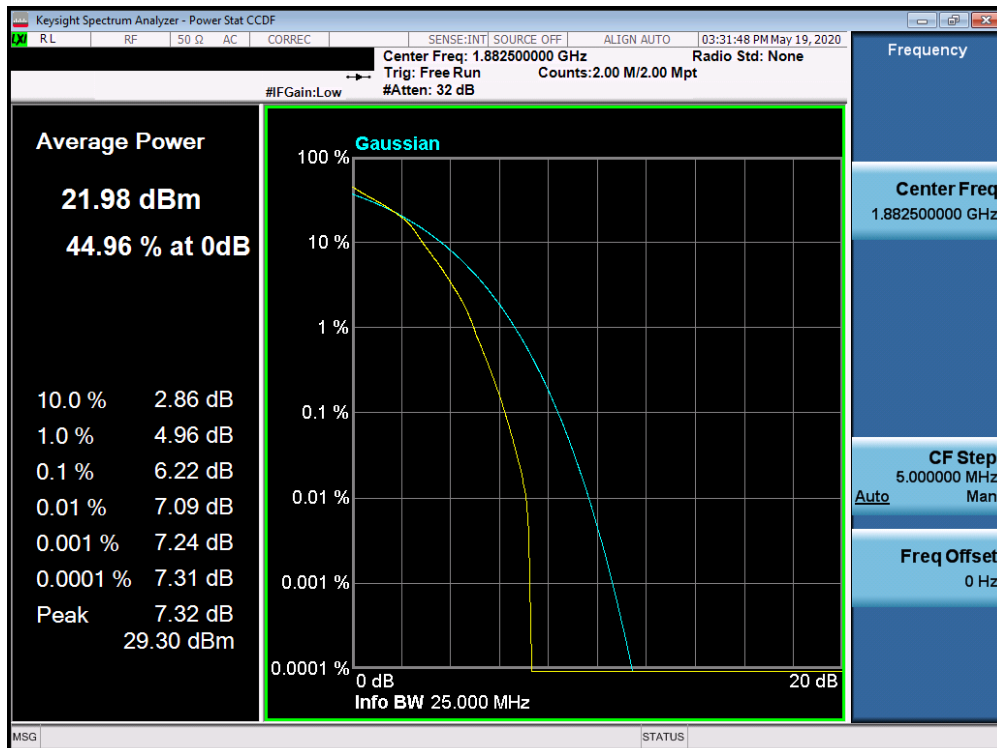


Plot 7-315. PAR Plot (Band 25 - 10.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A2353	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270023-03.BCG	Test Dates: 06/12/2020-08/20/2020	EUT Type: Watch	Page 185 of 238

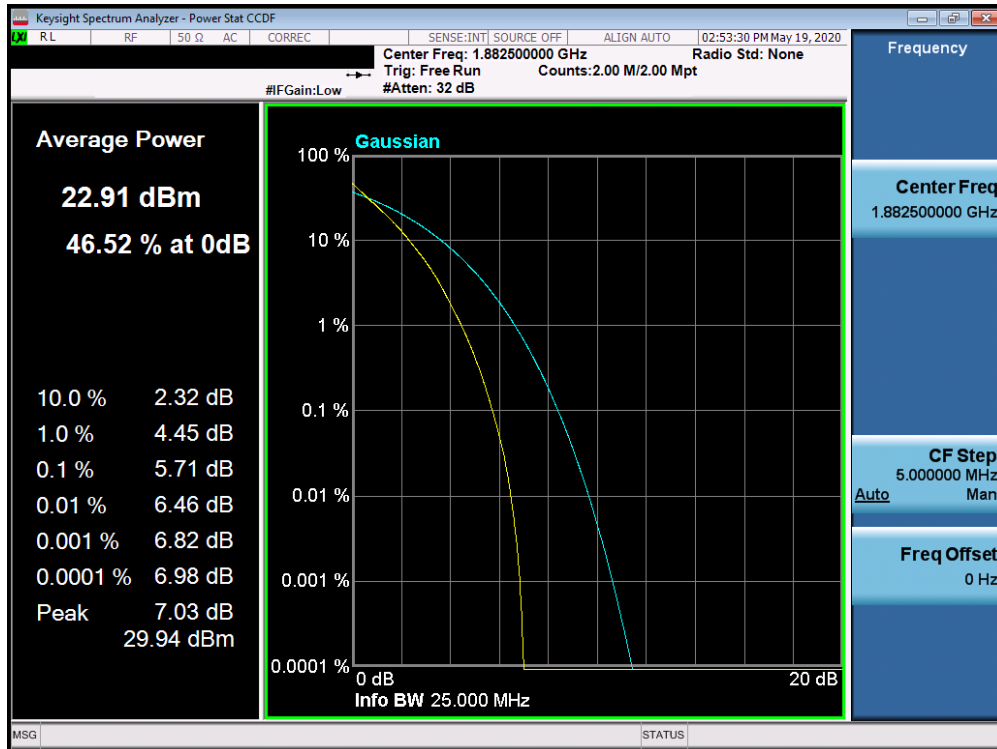


Plot 7-316. PAR Plot (Band 25 - 15.0MHz QPSK - Full RB Configuration)

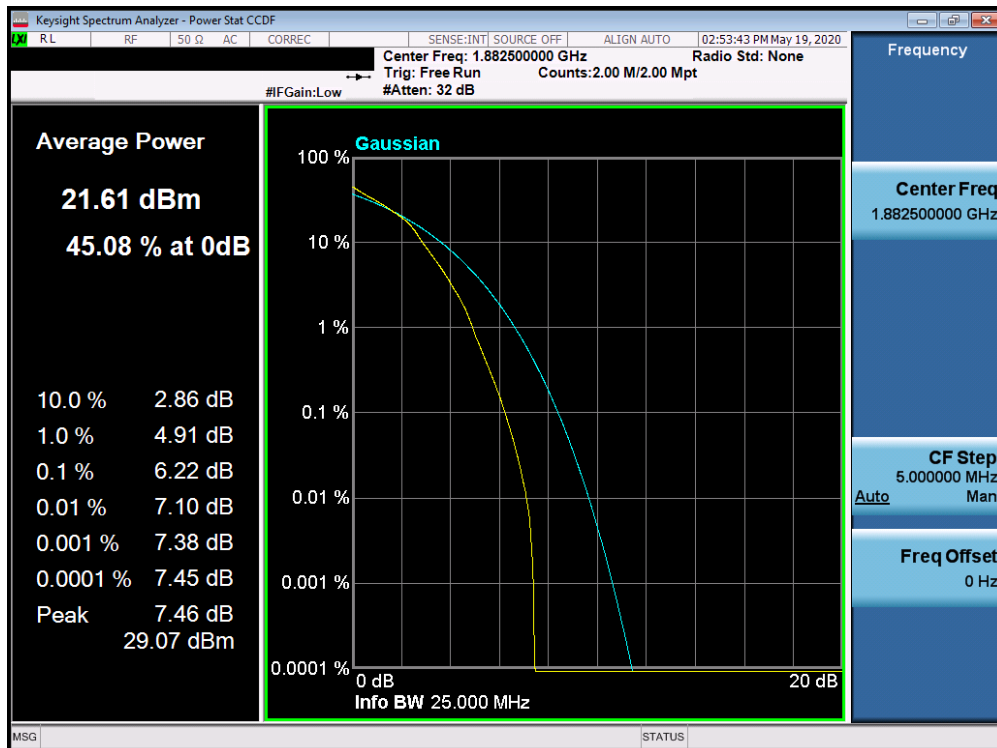


Plot 7-317. PAR Plot (Band 25 - 15.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A2353	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270023-03.BCG	Test Dates: 06/12/2020-08/20/2020	EUT Type: Watch	Page 186 of 238



Plot 7-318. PAR Plot (Band 25 - 20.0MHz QPSK - Full RB Configuration)



Plot 7-319. PAR Plot (Band 25 - 20.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A2353	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270023-03.BCG	Test Dates: 06/12/2020-08/20/2020	EUT Type: Watch	Page 187 of 238

7.6 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 7-5. 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) This device only supports 27RBs or less for 16-QAM uplink.

FCC ID: BCG-A2353	PCTEST Proud to be part of element	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]
699.70	1.4	QPSK	1 / 0	24.69	-31.00	-8.46	0.143	34.77	-43.23	-6.31	0.234	36.99	-43.30
707.50	1.4	QPSK	1 / 5	24.85	-31.00	-8.30	0.148	34.77	-43.07	-6.15	0.243	36.99	-43.14
715.30	1.4	QPSK	1 / 0	24.94	-31.00	-8.21	0.151	34.77	-42.98	-6.06	0.248	36.99	-43.05
707.50	1.4	16-QAM	1 / 0	24.54	-31.00	-8.61	0.138	34.77	-43.38	-6.46	0.226	36.99	-43.45
700.50	3	QPSK	1 / 14	24.68	-31.00	-8.47	0.142	34.77	-43.24	-6.32	0.233	36.99	-43.31
707.50	3	QPSK	1 / 7	24.85	-31.00	-8.30	0.148	34.77	-43.07	-6.15	0.243	36.99	-43.14
714.50	3	QPSK	1 / 7	24.79	-31.00	-8.36	0.146	34.77	-43.13	-6.21	0.239	36.99	-43.20
707.50	3	16-QAM	1 / 0	24.34	-31.00	-8.81	0.132	34.77	-43.58	-6.66	0.216	36.99	-43.65
701.50	5	QPSK	1 / 24	24.98	-31.00	-8.17	0.152	34.77	-42.94	-6.02	0.250	36.99	-43.01
707.50	5	QPSK	1 / 0	25.00	-31.00	-8.15	0.153	34.77	-42.92	-6.00	0.251	36.99	-42.99
713.50	5	QPSK	1 / 12	24.78	-31.00	-8.37	0.146	34.77	-43.14	-6.22	0.239	36.99	-43.21
707.50	5	16-QAM	1 / 0	24.24	-31.00	-8.91	0.129	34.77	-43.68	-6.76	0.211	36.99	-43.75
704.00	10	QPSK	1 / 49	24.84	-31.00	-8.31	0.148	34.77	-43.08	-6.16	0.242	36.99	-43.15
707.50	10	QPSK	1 / 49	24.93	-31.00	-8.22	0.151	34.77	-42.99	-6.07	0.247	36.99	-43.06
711.00	10	QPSK	1 / 0	24.72	-31.00	-8.43	0.144	34.77	-43.20	-6.28	0.236	36.99	-43.27
707.50	10	16-QAM	1 / 13	24.28	-31.00	-8.87	0.130	34.77	-43.64	-6.72	0.213	36.99	-43.71

Table 7-7. ERP/EIRP 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 / 12	24.98	-31.00	-8.17	0.152	34.77	-42.94	-6.02	0.250	36.99	-43.01
710.00	5	QPSK	1 / 24	25.00	-31.00	-8.15	0.153	34.77	-42.92	-6.00	0.251	36.99	-42.99
713.50	5	QPSK	1 / 12	24.79	-31.00	-8.36	0.146	34.77	-43.13	-6.21	0.239	36.99	-43.20
706.50	5	16-QAM	1 / 0	24.38	-31.00	-8.77	0.133	34.77	-43.54	-6.62	0.218	36.99	-43.61
709.00	10	QPSK	1 / 49	24.92	-31.00	-8.23	0.150	34.77	-43.00	-6.08	0.247	36.99	-43.07
710.00	10	QPSK	1 / 49	25.00	-31.00	-8.15	0.153	34.77	-42.92	-6.00	0.251	36.99	-42.99
711.00	10	QPSK	1 / 0	24.78	-31.00	-8.37	0.146	34.77	-43.14	-6.22	0.239	36.99	-43.21
710.00	10	16-QAM	1 / 0	24.45	-31.00	-8.70	0.135	34.77	-43.47	-6.55	0.221	36.99	-43.54

Table 7-8. ERP/EIRP Data (Band 17)

FCC ID: BCG-A2353		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]
779.50	5	QPSK	1 / 12	25.00	-29.40	-6.55	0.221	34.77	-41.32	-4.40	0.363	36.99	-41.39
782.00	5	QPSK	1 / 24	24.99	-29.40	-6.56	0.221	34.77	-41.33	-4.41	0.362	36.99	-41.40
784.50	5	QPSK	1 / 24	24.80	-29.40	-6.75	0.211	34.77	-41.52	-4.60	0.347	36.99	-41.59
782.00	5	16-QAM	1 / 24	24.34	-29.40	-7.21	0.190	34.77	-41.98	-5.06	0.312	36.99	-42.05
782.00	10	QPSK	1 / 49	24.89	-29.40	-6.66	0.216	34.77	-41.43	-4.51	0.354	36.99	-41.50
782.00	10	16-QAM	1 / 27	24.42	-29.40	-7.13	0.194	34.77	-41.90	-4.98	0.318	36.99	-41.97

Table 7-9. ERP/EIRP Data (Band 13)

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	24.82	-29.30	-6.63	0.217	38.45	-45.08	-4.48	0.356	40.61	-45.09
836.50	1.4	QPSK	1 / 0	24.79	-29.30	-6.66	0.216	38.45	-45.11	-4.51	0.354	40.61	-45.12
848.30	1.4	QPSK	1 / 0	24.86	-29.30	-6.59	0.219	38.45	-45.04	-4.44	0.360	40.61	-45.05
836.50	1.4	16-QAM	1 / 2	24.28	-29.30	-7.17	0.192	38.45	-45.62	-5.02	0.315	40.61	-45.63
825.50	3	QPSK	1 / 7	24.79	-29.30	-6.66	0.216	38.45	-45.11	-4.51	0.354	40.61	-45.12
836.50	3	QPSK	1 / 7	24.79	-29.30	-6.66	0.216	38.45	-45.11	-4.51	0.354	40.61	-45.12
847.50	3	QPSK	1 / 7	24.71	-29.30	-6.74	0.212	38.45	-45.19	-4.59	0.348	40.61	-45.20
847.50	3	16-QAM	1 / 0	24.35	-29.30	-7.10	0.195	38.45	-45.55	-4.95	0.320	40.61	-45.56
826.50	5	QPSK	1 / 24	24.97	-29.30	-6.48	0.225	38.45	-44.93	-4.33	0.369	40.61	-44.94
836.50	5	QPSK	1 / 24	24.95	-29.30	-6.50	0.224	38.45	-44.95	-4.35	0.367	40.61	-44.96
846.50	5	QPSK	1 / 0	24.79	-29.30	-6.66	0.216	38.45	-45.11	-4.51	0.354	40.61	-45.12
826.50	5	16-QAM	1 / 12	24.38	-29.30	-7.07	0.196	38.45	-45.52	-4.92	0.322	40.61	-45.53
829.00	10	QPSK	1 / 49	24.86	-29.30	-6.59	0.219	38.45	-45.04	-4.44	0.360	40.61	-45.05
836.50	10	QPSK	1 / 49	24.81	-29.30	-6.64	0.217	38.45	-45.09	-4.49	0.356	40.61	-45.10
844.00	10	QPSK	1 / 25	24.82	-29.30	-6.63	0.217	38.45	-45.08	-4.48	0.356	40.61	-45.09
844.00	10	16-QAM	1 / 13	24.46	-29.30	-6.99	0.200	38.45	-45.44	-4.84	0.328	40.61	-45.45

Table 7-10. ERP/EIRP Data (Band 5)

FCC ID: BCG-A2353	 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	24.93	-29.30	-6.52	0.223	38.45	-44.97	-4.37	0.366	40.61	-44.98
836.50	1.4	QPSK	1 / 5	24.93	-29.30	-6.52	0.223	38.45	-44.97	-4.37	0.366	40.61	-44.98
848.30	1.4	QPSK	1 / 0	25.00	-29.30	-6.45	0.226	38.45	-44.90	-4.30	0.372	40.61	-44.91
836.50	1.4	16-QAM	1 / 2	24.39	-29.30	-7.06	0.197	38.45	-45.51	-4.91	0.323	40.61	-45.52
825.50	3	QPSK	1 / 7	24.98	-29.30	-6.47	0.225	38.45	-44.92	-4.32	0.370	40.61	-44.93
836.50	3	QPSK	1 / 7	25.00	-29.30	-6.45	0.226	38.45	-44.90	-4.30	0.372	40.61	-44.91
847.50	3	QPSK	1 / 7	24.96	-29.30	-6.49	0.224	38.45	-44.94	-4.34	0.368	40.61	-44.95
847.50	3	16-QAM	1 / 7	24.46	-29.30	-6.99	0.200	38.45	-45.44	-4.84	0.328	40.61	-45.45
826.50	5	QPSK	1 / 24	25.00	-29.30	-6.45	0.226	38.45	-44.90	-4.30	0.372	40.61	-44.91
836.50	5	QPSK	1 / 0	24.98	-29.30	-6.47	0.225	38.45	-44.92	-4.32	0.370	40.61	-44.93
846.50	5	QPSK	1 / 0	24.85	-29.30	-6.60	0.219	38.45	-45.05	-4.45	0.359	40.61	-45.06
826.50	5	16-QAM	1 / 12	24.37	-29.30	-7.08	0.196	38.45	-45.53	-4.93	0.321	40.61	-45.54
829.00	10	QPSK	1 / 49	25.00	-29.30	-6.45	0.226	38.45	-44.90	-4.30	0.372	40.61	-44.91
836.50	10	QPSK	1 / 0	24.97	-29.30	-6.48	0.225	38.45	-44.93	-4.33	0.369	40.61	-44.94
844.00	10	QPSK	1 / 25	24.95	-29.30	-6.50	0.224	38.45	-44.95	-4.35	0.367	40.61	-44.96
836.50	10	16-QAM	1 / 27	24.56	-29.30	-6.89	0.205	38.45	-45.34	-4.74	0.336	40.61	-45.35

Table 7-11. ERP/EIRP Data (Band 26)

FCC ID: BCG-A2353	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270023-03.BCG	Test Dates: 06/12/2020-08/20/2020	EUT Type: Watch	Page 191 of 238

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	1 / 0	23.93	-10.70	13.23	21.038	30.00	-16.77
1732.50	1.4	QPSK	1 / 0	23.95	-10.70	13.25	21.135	30.00	-16.75
1754.30	1.4	QPSK	1 / 0	23.95	-10.70	13.25	21.135	30.00	-16.75
1732.50	1.4	16-QAM	1 / 2	23.55	-10.70	12.85	19.275	30.00	-17.15
1711.50	3	QPSK	1 / 14	23.95	-10.70	13.25	21.135	30.00	-16.75
1732.50	3	QPSK	1 / 7	23.93	-10.70	13.23	21.038	30.00	-16.77
1753.50	3	QPSK	1 / 7	23.82	-10.70	13.12	20.512	30.00	-16.88
1732.50	3	16-QAM	1 / 7	23.68	-10.70	12.98	19.861	30.00	-17.02
1712.50	5	QPSK	1 / 0	24.00	-10.70	13.30	21.380	30.00	-16.70
1732.50	5	QPSK	1 / 0	23.99	-10.70	13.29	21.330	30.00	-16.71
1752.50	5	QPSK	1 / 0	23.80	-10.70	13.10	20.417	30.00	-16.90
1732.50	5	16-QAM	1 / 12	23.62	-10.70	12.92	19.588	30.00	-17.08
1715.00	10	QPSK	1 / 49	23.90	-10.70	13.20	20.893	30.00	-16.80
1732.50	10	QPSK	1 / 0	23.90	-10.70	13.20	20.893	30.00	-16.80
1750.00	10	QPSK	1 / 0	23.78	-10.70	13.08	20.324	30.00	-16.92
1732.50	10	16-QAM	1 / 0	23.59	-10.70	12.89	19.454	30.00	-17.11
1717.50	15	QPSK	1 / 36	24.00	-10.70	13.30	21.380	30.00	-16.70
1732.50	15	QPSK	1 / 0	23.77	-10.70	13.07	20.277	30.00	-16.93
1747.50	15	QPSK	1 / 0	23.71	-10.70	13.01	19.999	30.00	-16.99
1732.50	15	16-QAM	1 / 13	23.60	-10.70	12.90	19.498	30.00	-17.10
1720.00	20	QPSK	1 / 50	23.83	-10.70	13.13	20.559	30.00	-16.87
1732.50	20	QPSK	1 / 0	23.98	-10.70	13.28	21.281	30.00	-16.72
1745.00	20	QPSK	1 / 0	23.86	-10.70	13.16	20.701	30.00	-16.84
1720.00	20	16-QAM	1 / 13	23.57	-10.70	12.87	19.364	30.00	-17.13

Table 7-12. EIRP Data (Band 4)

FCC ID: BCG-A2353	 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270023-03.BCG	Test Dates: 06/12/2020-08/20/2020	EUT Type: Watch
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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	1 / 0	23.94	-10.70	13.24	21.086	30.00	-16.76
1745.00	1.4	QPSK	1 / 0	23.93	-10.70	13.23	21.038	30.00	-16.77
1779.30	1.4	QPSK	1 / 0	23.99	-10.70	13.29	21.330	30.00	-16.71
1745.00	1.4	16-QAM	1 / 5	23.46	-10.70	12.76	18.880	30.00	-17.24
1711.50	3	QPSK	1 / 14	23.93	-10.70	13.23	21.038	30.00	-16.77
1745.00	3	QPSK	1 / 7	23.90	-10.70	13.20	20.893	30.00	-16.80
1778.50	3	QPSK	1 / 7	23.85	-10.70	13.15	20.654	30.00	-16.85
1778.50	3	16-QAM	1 / 7	23.43	-10.70	12.73	18.750	30.00	-17.27
1712.50	5	QPSK	1 / 0	24.00	-10.70	13.30	21.380	30.00	-16.70
1745.00	5	QPSK	1 / 0	23.94	-10.70	13.24	21.086	30.00	-16.76
1777.50	5	QPSK	1 / 0	23.80	-10.70	13.10	20.417	30.00	-16.90
1712.50	5	16-QAM	1 / 24	23.62	-10.70	12.92	19.588	30.00	-17.08
1715.00	10	QPSK	1 / 49	23.91	-10.70	13.21	20.941	30.00	-16.79
1745.00	10	QPSK	1 / 0	23.81	-10.70	13.11	20.464	30.00	-16.89
1775.00	10	QPSK	1 / 0	23.78	-10.70	13.08	20.324	30.00	-16.92
1775.00	10	16-QAM	1 / 27	23.49	-10.70	12.79	19.011	30.00	-17.21
1717.50	15	QPSK	1 / 36	24.00	-10.70	13.30	21.380	30.00	-16.70
1745.00	15	QPSK	1 / 36	23.75	-10.70	13.05	20.184	30.00	-16.95
1772.50	15	QPSK	1 / 36	23.67	-10.70	12.97	19.815	30.00	-17.03
1745.00	15	16-QAM	1 / 13	23.33	-10.70	12.63	18.323	30.00	-17.37
1720.00	20	QPSK	1 / 50	24.00	-10.70	13.30	21.380	30.00	-16.70
1745.00	20	QPSK	1 / 50	23.70	-10.70	13.00	19.953	30.00	-17.00
1770.00	20	QPSK	1 / 0	23.90	-10.70	13.20	20.893	30.00	-16.80
1720.00	20	16-QAM	1 / 27	23.44	-10.70	12.74	18.793	30.00	-17.26

Table 7-13. EIRP Data (Band 66)

FCC ID: BCG-A2353	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270023-03.BCG	Test Dates: 06/12/2020-08/20/2020	EUT Type: Watch	Page 193 of 238

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 / 5	23.95	-9.90	14.05	25.410	33.01	-18.96
1880.00	1.4	QPSK	1 / 2	24.00	-9.90	14.10	25.704	33.01	-18.91
1909.30	1.4	QPSK	1 / 0	24.00	-9.90	14.10	25.704	33.01	-18.91
1880.00	1.4	16-QAM	1 / 2	23.52	-9.90	13.62	23.014	33.01	-19.39
1851.50	3	QPSK	1 / 7	23.96	-9.90	14.06	25.468	33.01	-18.95
1880.00	3	QPSK	1 / 7	24.00	-9.90	14.10	25.704	33.01	-18.91
1908.50	3	QPSK	1 / 7	23.97	-9.90	14.07	25.527	33.01	-18.94
1880.00	3	16-QAM	1 / 7	23.50	-9.90	13.60	22.909	33.01	-19.41
1852.50	5	QPSK	1 / 24	24.00	-9.90	14.10	25.704	33.01	-18.91
1880.00	5	QPSK	1 / 24	24.00	-9.90	14.10	25.704	33.01	-18.91
1907.50	5	QPSK	1 / 12	24.00	-9.90	14.10	25.704	33.01	-18.91
1880.00	5	16-QAM	1 / 12	23.32	-9.90	13.42	21.979	33.01	-19.59
1855.00	10	QPSK	1 / 0	24.00	-9.90	14.10	25.704	33.01	-18.91
1880.00	10	QPSK	1 / 0	24.00	-9.90	14.10	25.704	33.01	-18.91
1905.00	10	QPSK	1 / 0	23.98	-9.90	14.08	25.586	33.01	-18.93
1905.00	10	16-QAM	1 / 13	23.57	-9.90	13.67	23.281	33.01	-19.34
1857.50	15	QPSK	1 / 74	24.00	-9.90	14.10	25.704	33.01	-18.91
1880.00	15	QPSK	1 / 36	24.00	-9.90	14.10	25.704	33.01	-18.91
1902.50	15	QPSK	1 / 74	23.95	-9.90	14.05	25.410	33.01	-18.96
1902.50	15	16-QAM	1 / 13	23.60	-9.90	13.70	23.442	33.01	-19.31
1860.00	20	QPSK	1 / 99	23.97	-9.90	14.07	25.527	33.01	-18.94
1880.00	20	QPSK	1 / 0	23.93	-9.90	14.03	25.293	33.01	-18.98
1900.00	20	QPSK	1 / 99	24.00	-9.90	14.10	25.704	33.01	-18.91
1880.00	20	16-QAM	1 / 13	23.44	-9.90	13.54	22.594	33.01	-19.47

Table 7-14. EIRP Data (Band 2)

FCC ID: BCG-A2353	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270023-03.BCG	Test Dates: 06/12/2020-08/20/2020	EUT Type: Watch	Page 194 of 238

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 / 5	23.97	-9.90	14.07	25.527	33.01	-18.94
1882.50	1.4	QPSK	1 / 0	24.00	-9.90	14.10	25.704	33.01	-18.91
1914.30	1.4	QPSK	1 / 2	23.98	-9.90	14.08	25.586	33.01	-18.93
1882.50	1.4	16-QAM	1 / 2	23.45	-9.90	13.55	22.646	33.01	-19.46
1851.50	3	QPSK	1 / 7	23.96	-9.90	14.06	25.468	33.01	-18.95
1882.50	3	QPSK	1 / 7	24.00	-9.90	14.10	25.704	33.01	-18.91
1913.50	3	QPSK	1 / 0	23.91	-9.90	14.01	25.177	33.01	-19.00
1882.50	3	16-QAM	1 / 7	23.49	-9.90	13.59	22.856	33.01	-19.42
1852.50	5	QPSK	1 / 24	24.00	-9.90	14.10	25.704	33.01	-18.91
1882.50	5	QPSK	1 / 12	23.97	-9.90	14.07	25.527	33.01	-18.94
1912.50	5	QPSK	1 / 0	23.97	-9.90	14.07	25.527	33.01	-18.94
1852.50	5	16-QAM	1 / 0	23.37	-9.90	13.47	22.233	33.01	-19.54
1855.00	10	QPSK	1 / 0	23.96	-9.90	14.06	25.468	33.01	-18.95
1882.50	10	QPSK	1 / 25	24.00	-9.90	14.10	25.704	33.01	-18.91
1910.00	10	QPSK	1 / 0	23.98	-9.90	14.08	25.586	33.01	-18.93
1882.50	10	16-QAM	1 / 27	23.52	-9.90	13.62	23.014	33.01	-19.39
1857.50	15	QPSK	1 / 74	24.00	-9.90	14.10	25.704	33.01	-18.91
1882.50	15	QPSK	1 / 74	23.88	-9.90	13.98	25.003	33.01	-19.03
1907.50	15	QPSK	1 / 0	23.93	-9.90	14.03	25.293	33.01	-18.98
1907.50	15	16-QAM	1 / 0	23.33	-9.90	13.43	22.029	33.01	-19.58
1860.00	20	QPSK	1 / 99	23.98	-9.90	14.08	25.586	33.01	-18.93
1882.50	20	QPSK	1 / 99	24.00	-9.90	14.10	25.704	33.01	-18.91
1905.00	20	QPSK	1 / 50	23.94	-9.90	14.04	25.351	33.01	-18.97
1905.00	20	16-QAM	1 / 13	23.39	-9.90	13.49	22.336	33.01	-19.52

Table 7-15. EIRP Data (Band 25)

FCC ID: BCG-A2353	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270023-03.BCG	Test Dates: 06/12/2020-08/20/2020	EUT Type: Watch	Page 195 of 238

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 / 24	23.50	-6.90	16.60	45.709	33.01	-16.41
2535.00	5	QPSK	1 / 24	23.20	-6.90	16.30	42.658	33.01	-16.71
2567.50	5	QPSK	1 / 24	23.32	-6.90	16.42	43.853	33.01	-16.59
2502.50	5	16-QAM	1 / 12	23.00	-6.90	16.10	40.738	33.01	-16.91
2505.00	10	QPSK	1 / 0	23.40	-6.90	16.50	44.668	33.01	-16.51
2535.00	10	QPSK	1 / 49	23.14	-6.90	16.24	42.073	33.01	-16.77
2565.00	10	QPSK	1 / 49	23.26	-6.90	16.36	43.251	33.01	-16.65
2565.00	10	16-QAM	1 / 27	22.80	-6.90	15.90	38.905	33.01	-17.11
2507.50	15	QPSK	1 / 0	23.50	-6.90	16.60	45.709	33.01	-16.41
2535.00	15	QPSK	1 / 74	23.16	-6.90	16.26	42.267	33.01	-16.75
2562.50	15	QPSK	1 / 74	23.19	-6.90	16.29	42.560	33.01	-16.72
2562.50	15	16-QAM	1 / 27	22.77	-6.90	15.87	38.637	33.01	-17.14
2510.00	20	QPSK	1 / 0	23.50	-6.90	16.60	45.709	33.01	-16.41
2535.00	20	QPSK	1 / 99	23.14	-6.90	16.24	42.073	33.01	-16.77
2560.00	20	QPSK	1 / 99	23.43	-6.90	16.53	44.978	33.01	-16.48
2510.00	20	16-QAM	1 / 0	22.81	-6.90	15.91	38.994	33.01	-17.10

Table 7-16. EIRP Data (Band 7)

FCC ID: BCG-A2353		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270023-03.BCG	Test Dates: 06/12/2020-08/20/2020	EUT Type: Watch	Page 196 of 238

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	23.50	-6.90	16.60	45.709	33.01	-16.41
2593.00	5	QPSK	1 / 24	23.24	-6.90	16.34	43.053	33.01	-16.67
2687.50	5	QPSK	1 / 24	23.36	-6.90	16.46	44.259	33.01	-16.55
2687.50	5	16-QAM	1 / 24	22.49	-6.90	15.59	36.224	33.01	-17.42
2501.00	10	QPSK	1 / 25	23.48	-6.90	16.58	45.499	33.01	-16.43
2593.00	10	QPSK	1 / 49	23.27	-6.90	16.37	43.351	33.01	-16.64
2685.00	10	QPSK	1 / 25	23.50	-6.90	16.60	45.709	33.01	-16.41
2501.00	10	16-QAM	1 / 0	22.67	-6.90	15.77	37.757	33.01	-17.24
2503.50	15	QPSK	1 / 36	23.40	-6.90	16.50	44.668	33.01	-16.51
2593.00	15	QPSK	1 / 74	23.25	-6.90	16.35	43.152	33.01	-16.66
2682.50	15	QPSK	1 / 74	23.50	-6.90	16.60	45.709	33.01	-16.41
2682.50	15	16-QAM	1 / 0	22.47	-6.90	15.57	36.058	33.01	-17.44
2506.00	20	QPSK	1 / 50	23.39	-6.90	16.49	44.566	33.01	-16.52
2593.00	20	QPSK	1 / 99	23.36	-6.90	16.46	44.259	33.01	-16.55
2680.00	20	QPSK	1 / 99	23.32	-6.90	16.42	43.853	33.01	-16.59
2680.00	20	16-QAM	1 / 27	22.59	-6.90	15.69	37.068	33.01	-17.32

Table 7-17. EIRP Data (Band 41)

FCC ID: BCG-A2353	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270023-03.BCG	Test Dates: 06/12/2020-08/20/2020	EUT Type: Watch	Page 197 of 238

7.7 Radiated Spurious Emissions

Test Overview

Radiated spurious emissions measurements are performed using the substitution method described in ANSI C63.26-2015/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

TIA-603-E-2016 – Section 2.2.12

ANSI C63.26-2015

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-A2353	 PCTEST Proud to be part of 	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.

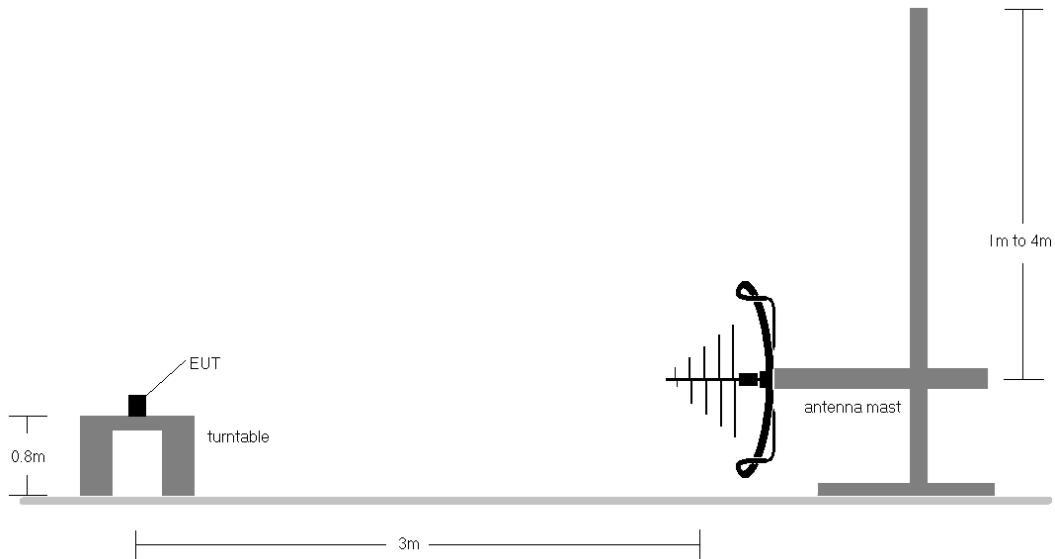


Figure 7-6. Radiated Measurement Setup < 1GHz

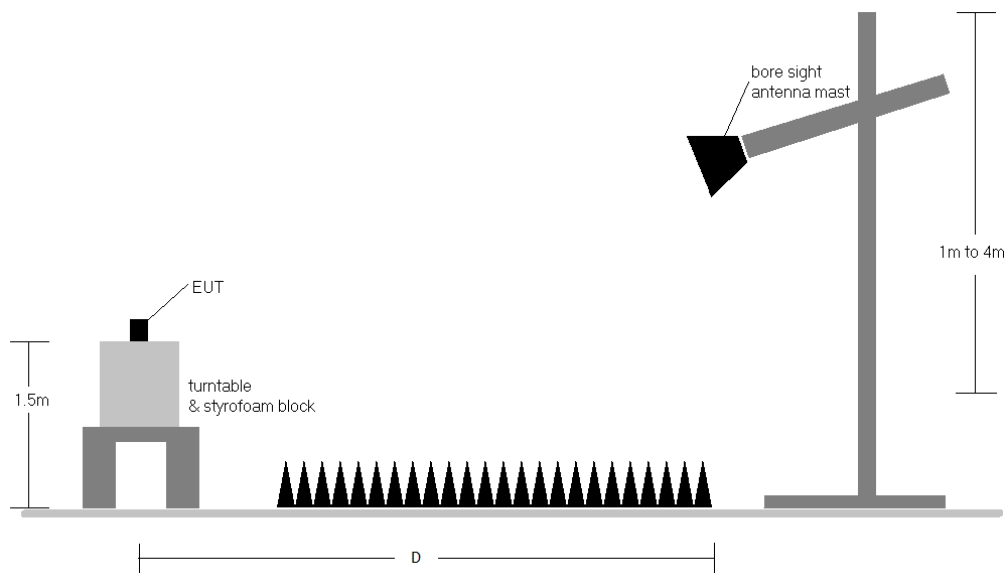


Figure 7-7. Radiated Measurement Setup > 1GHz

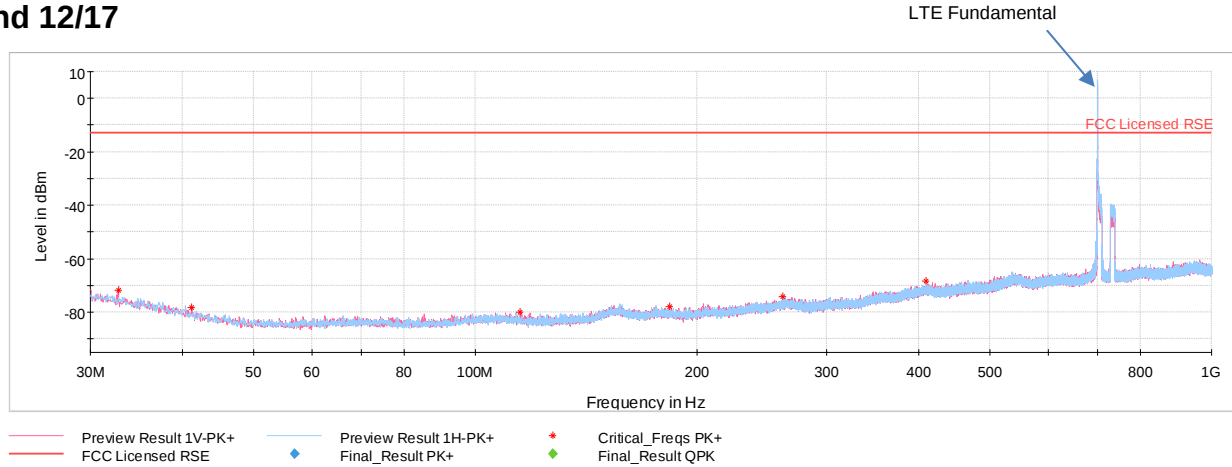
FCC ID: BCG-A2353	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270023-03.BCG	Test Dates: 06/12/2020-08/20/2020	EUT Type: Watch	Page 199 of 238

Test Notes

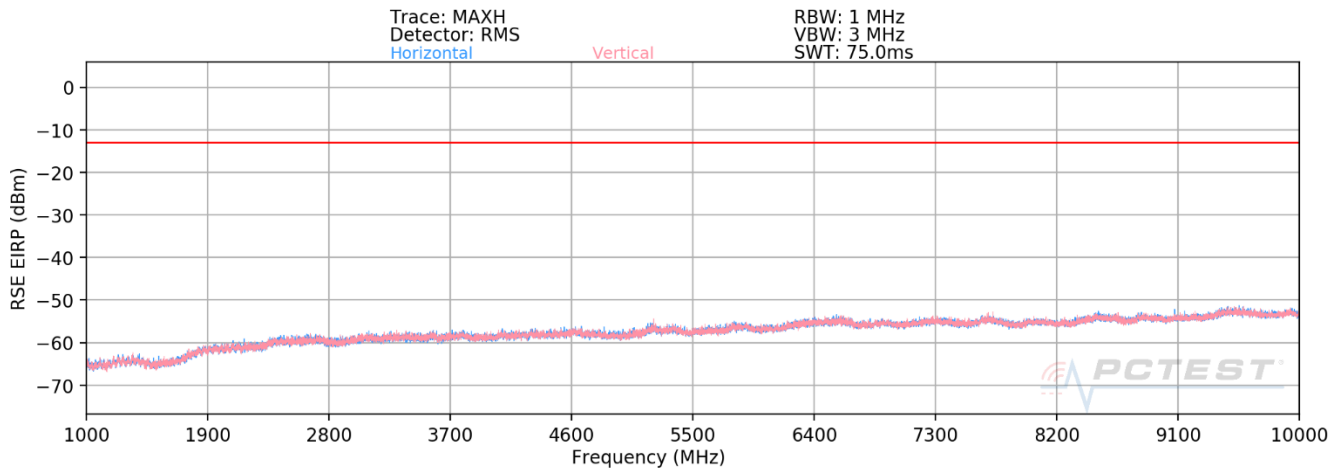
- 1) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below. QPSK/10MHz/1RB was found and reported as worst case configuration for low bands and QPSK/20MHz/1RB was found and reported as worst case configuration for mid/high bands.
- 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 3 meter distance for 1GHz – 18GHz measurements and 1 meter distance for above 18GHz 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) The intermodulation emissions were tested against the less stringent limit across all rule parts applicable to simultaneous transmitters.

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Band 12/17



Plot 7-320. Radiated Spurious Emissions below 1GHz (Band 12/17)



Plot 7-321. Radiated Spurious Emissions above 1GHz (Band 12/17)

FCC ID: BCG-A2353	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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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	V	272	347	-71.80	3.79	-68.01	-55.0
2112.00	V	-	-	-68.57	3.59	-64.98	-52.0
2816.00	V	-	-	-69.62	5.39	-64.24	-51.2
3520.00	V	-	-	-70.20	7.01	-63.20	-50.2

Table 7-18. 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	V	278	99	-72.08	3.89	-68.19	-55.2
2122.50	V	-	-	-69.69	3.69	-66.00	-53.0
2830.00	V	-	-	-69.87	5.45	-64.42	-51.4
3537.50	V	-	-	-69.89	6.98	-62.91	-49.9

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

FCC ID: BCG-A2353	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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OPERATING FREQUENCY: 711.00 MHz

MODULATION SIGNAL: QPSK

BANDWIDTH: 10.0 MHz

DISTANCE: 3 meters

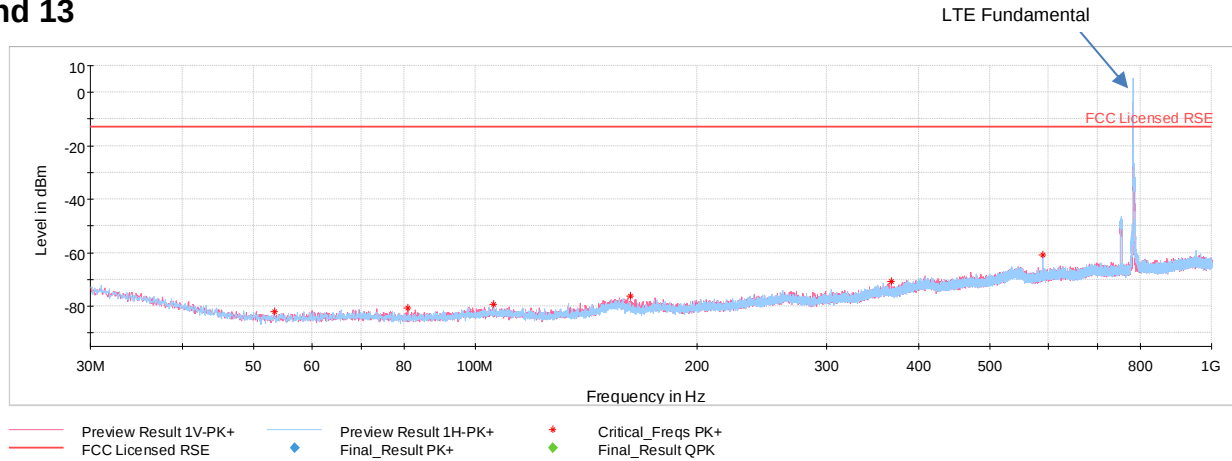
LIMIT: -13 dBm

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	V	123	83	-72.20	3.99	-68.21	-55.2
2133.00	V	-	-	-69.04	3.76	-65.28	-52.3
2844.00	V	-	-	-69.92	5.60	-64.32	-51.3
3555.00	V	-	-	-69.75	6.97	-62.78	-49.8

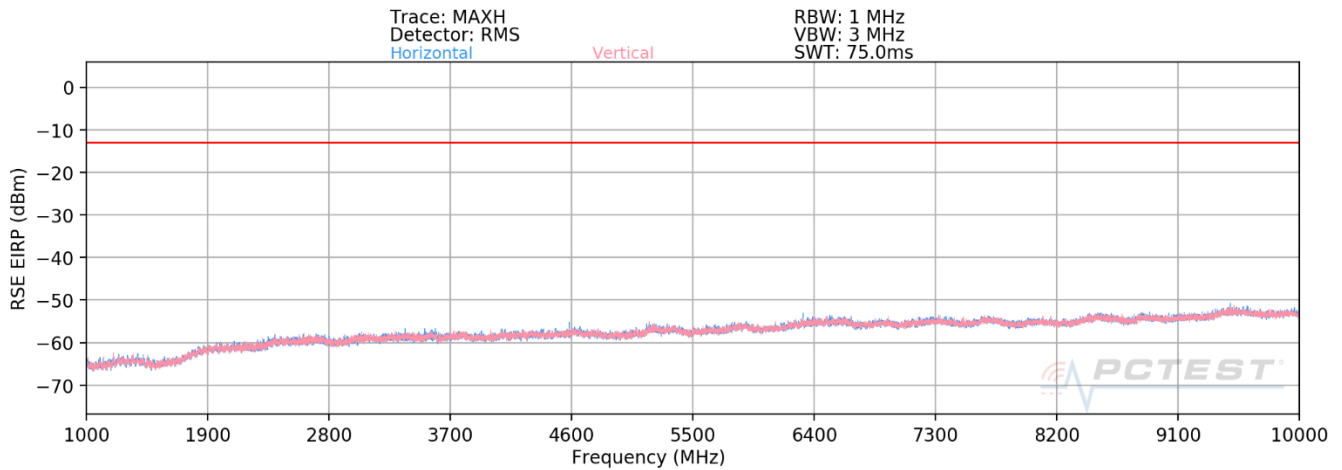
Table 7-20. Radiated Spurious Data (Band 12/17 – High Channel)

FCC ID: BCG-A2353	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Band 13



Plot 7-322. Radiated Spurious Emissions below 1GHz (Band 13)



Plot 7-323. Radiated Spurious Emissions above 1GHz (Band 13)

FCC ID: BCG-A2353	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270023-03.BCG	Test Dates: 06/12/2020-08/20/2020	EUT Type: Watch	Page 204 of 238

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]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
2338.50	V	-	-	-70.03	4.05	-65.98	-53.0
3118.00	V	-	-	-71.55	6.28	-65.27	-52.3
3897.50	V	-	-	-71.18	7.74	-63.44	-50.4

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]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
2346.00	V	-	-	-69.83	4.10	-65.73	-52.7
3128.00	V	-	-	-71.43	6.30	-65.13	-52.1
3910.00	V	-	-	-71.24	7.75	-63.48	-50.5

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

FCC ID: BCG-A2353	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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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]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
2353.50	V	312	347	-68.08	4.15	-63.93	-50.9
3138.00	V	-	-	-69.73	6.33	-63.40	-50.4
3922.50	V	-	-	-69.59	7.78	-61.81	-48.8
4707.00	V	-	-	-70.44	8.50	-61.94	-48.9

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

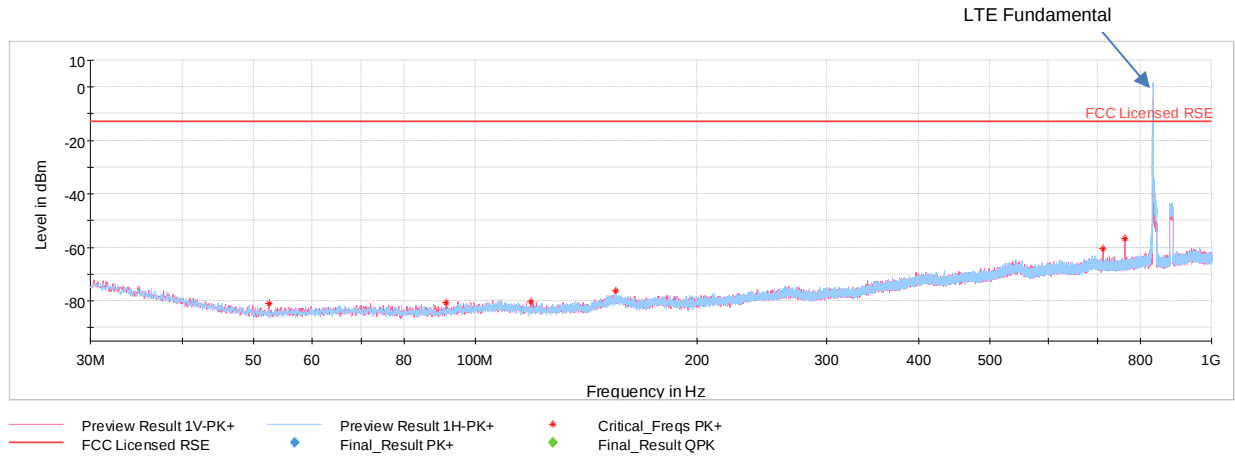
WIDEBAND EMISSION LIMIT: -40 dBm/MHz

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1559.00	V	-	-	-74.90	4.44	-70.46	-30.5
1564.00	V	-	-	-74.56	4.44	-70.12	-30.1
1569.00	V	-	-	-74.57	4.44	-70.13	-30.1

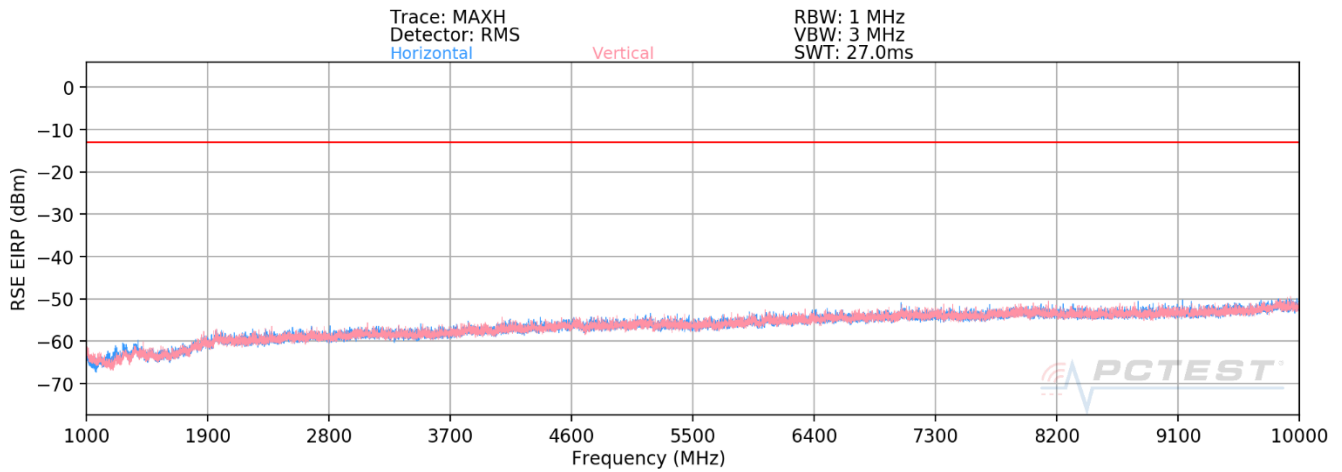
Table 7-24. Radiated Spurious Data (Band 13 – 1559-1610MHz Band)

FCC ID: BCG-A2353	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Band 26/5



Plot 7-324. Radiated Spurious Emissions below 1GHz (Band 26/5)



Plot 7-325. Radiated Spurious Emissions above 1GHz (Band 26/5)

FCC ID: BCG-A2353	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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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]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1658.00	V	-	-	-73.94	4.75	-69.19	-56.2
2487.00	V	-	-	-69.42	4.37	-65.05	-52.0
3316.00	V	-	-	-70.97	6.66	-64.31	-51.3

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

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]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1673.00	V	135	169	-72.25	4.71	-67.54	-54.5
2509.50	V	-	-	-69.27	4.38	-64.89	-51.9
3346.00	V	-	-	-71.07	6.70	-64.37	-51.4
4182.50	V	-	-	-70.89	8.07	-62.81	-49.8

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

FCC ID: BCG-A2353	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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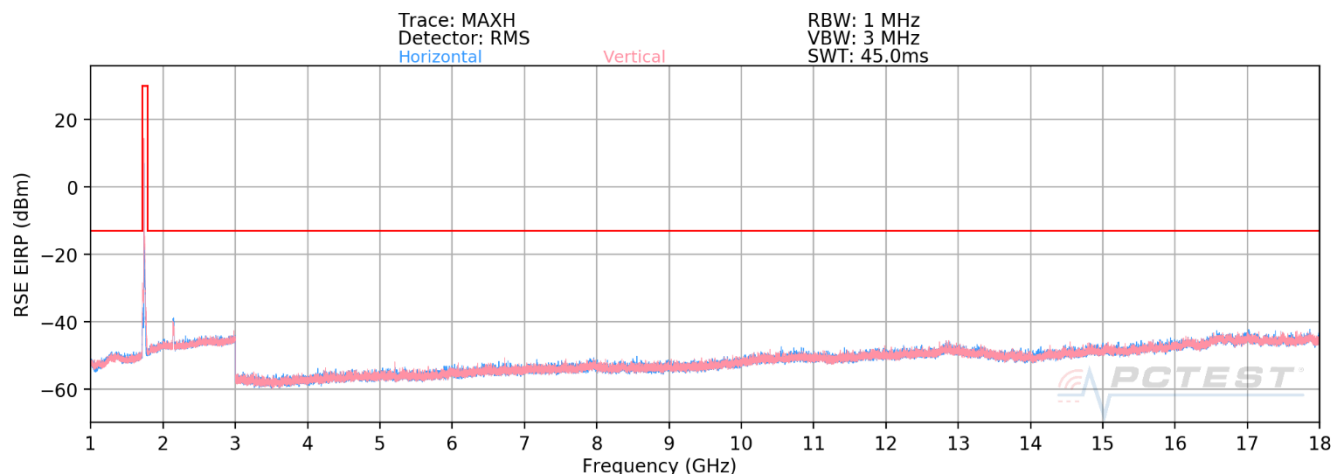
OPERATING FREQUENCY: 844.00 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1688.00	V	-	-	-73.36	4.68	-68.68	-55.7
2532.00	V	-	-	-69.24	4.46	-64.78	-51.8
3376.00	V	-	-	-71.30	6.78	-64.52	-51.5

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

FCC ID: BCG-A2353	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Band 66/4



Plot 7-326. Radiated Spurious Emissions 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]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3440.00	V	-	-	-70.58	6.93	-63.65	-50.7
5160.00	V	118	7	-69.65	9.13	-60.52	-47.5
6880.00	V	-	-	-70.77	9.86	-60.91	-47.9
8600.00	V	-	-	-70.13	10.01	-60.12	-47.1
10320.00	V	-	-	-69.30	9.76	-59.55	-46.5

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

FCC ID: BCG-A2353	PCTEST Proud to be part of element	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]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3490.00	V	-	-	-70.99	7.02	-63.97	-51.0
5235.00	H	396	128	-66.01	9.24	-56.77	-43.8
6980.00	V	-	-	-70.21	9.83	-60.38	-47.4
8725.00	V	-	-	-70.41	10.03	-60.39	-47.4
10470.00	V	-	-	-67.21	9.74	-57.47	-44.5

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

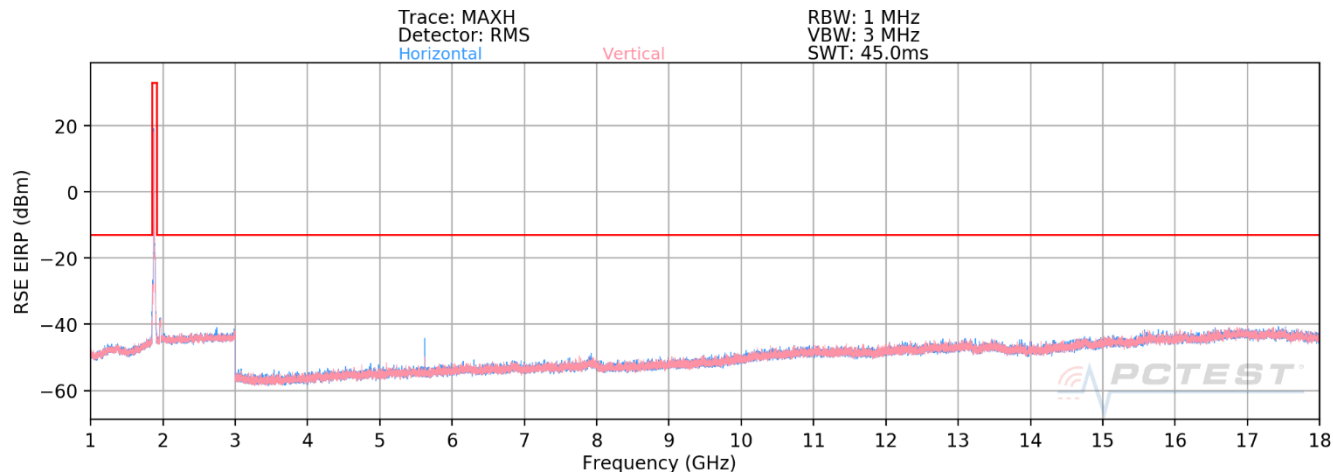
LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3540.00	V	-	-	-70.71	6.98	-63.73	-50.7
5310.00	V	105	106	-67.34	9.24	-58.09	-45.1
7080.00	V	-	-	-70.46	9.86	-60.59	-47.6
8850.00	V	-	-	-69.47	10.05	-59.42	-46.4
10620.00	V	-	-	-67.20	9.70	-57.50	-44.5

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

FCC ID: BCG-A2353	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Band 25/2



Plot 7-327. Radiated Spurious Emissions 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]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3720.00	H	-	-	-69.58	7.36	-62.21	-49.2
5580.00	H	112	60	-59.06	9.38	-49.67	-36.7
7440.00	H	-	-	-67.04	9.45	-57.58	-44.6
9300.00	H	-	-	-64.78	9.62	-55.16	-42.2
11160.00	H	-	-	-63.07	9.79	-53.28	-40.3

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

FCC ID: BCG-A2353	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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OPERATING FREQUENCY: 1882.50 MHz

MODULATION SIGNAL: QPSK

BANDWIDTH: 20.0 MHz

DISTANCE: 3 meters

-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]
3765.00	V	-	-	-63.70	7.55	-63.70	-50.7
5647.50	V	249	241	-48.67	9.48	-48.67	-35.7
7530.00	V	-	-	-60.45	9.54	-60.45	-47.5
9412.50	V	-	-	-59.65	9.73	-59.65	-46.6
11295.00	V	-	-	-57.65	9.89	-57.65	-44.6

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

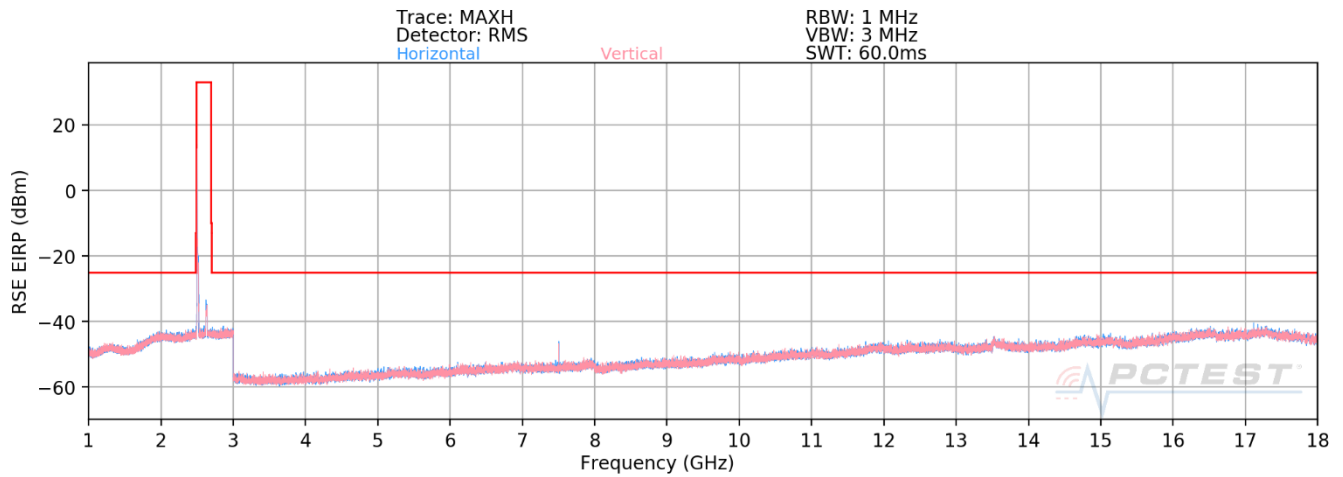
LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3810.00	V	-	-	-69.82	7.55	-62.26	-49.3
5715.00	V	102	288	-62.05	9.48	-52.57	-39.6
7620.00	V	-	-	-66.97	9.54	-57.43	-44.4
9525.00	V	-	-	-64.48	9.73	-54.75	-41.7
11430.00	V	-	-	-62.88	9.89	-52.99	-40.0

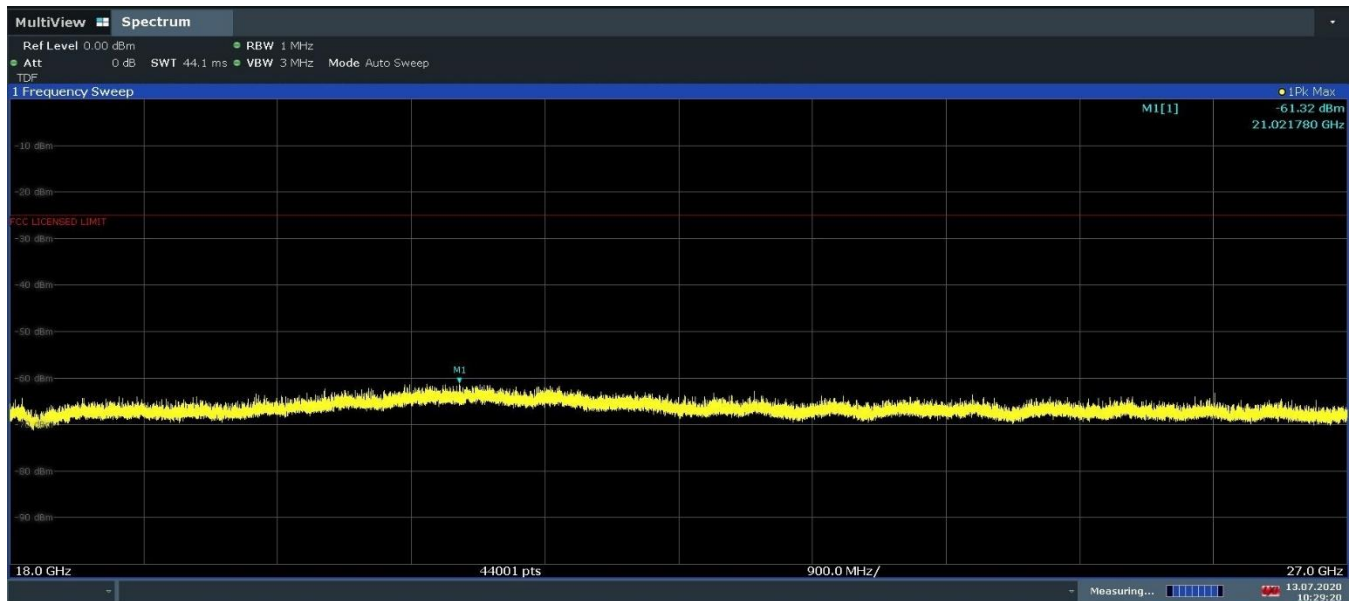
Table 7-33. Radiated Spurious Data (Band 25/2 – High Channel)

FCC ID: BCG-A2353	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Band 7

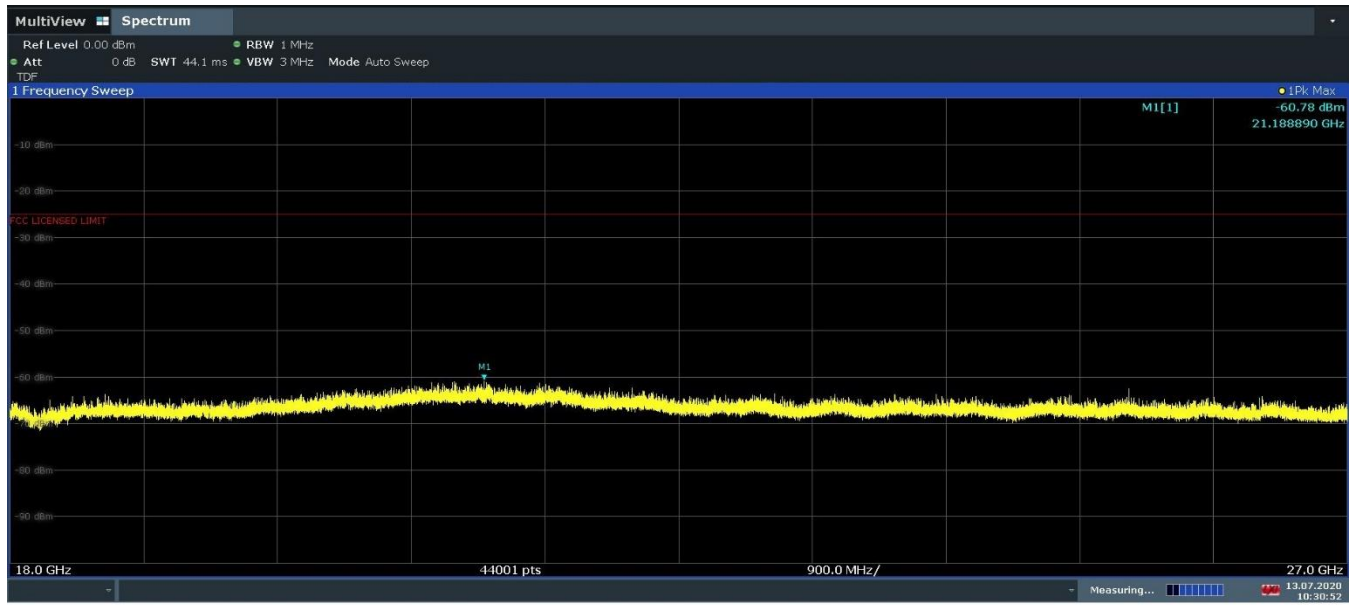


Plot 7-328. Radiated Spurious Emissions 1GHz - 18GHz (Band 7)



Plot 7-329. Radiated Spurious Emissions 18GHz – 27GHz (Band 7, Pol. H)

FCC ID: BCG-A2353	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270023-03.BCG	Test Dates: 06/12/2020-08/20/2020	EUT Type: Watch	Page 214 of 238



10:30:53 13.07.2020

Plot 7-330. Radiated Spurious Emissions 18GHz – 27GHz (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]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5020.00	H	115	285	-70.12	8.76	-61.35	-36.4
7530.00	H	246	112	-67.16	9.47	-57.68	-32.7
10040.00	H	239	262	-65.83	9.67	-56.16	-31.2
12550.00	H	-	-	-63.58	9.56	-54.02	-29.0
15060.00	H	-	-	-63.61	9.17	-54.45	-29.4

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

FCC ID: BCG-A2353	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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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]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5070.00	H	-	-	-71.22	8.88	-62.33	-37.3
7605.00	H	322	203	-65.74	9.53	-56.21	-31.2
10140.00	H	-	-	-66.69	9.75	-56.95	-31.9
12675.00	H	-	-	-63.83	9.43	-54.41	-29.4
15210.00	H	-	-	-63.07	9.11	-53.96	-29.0

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

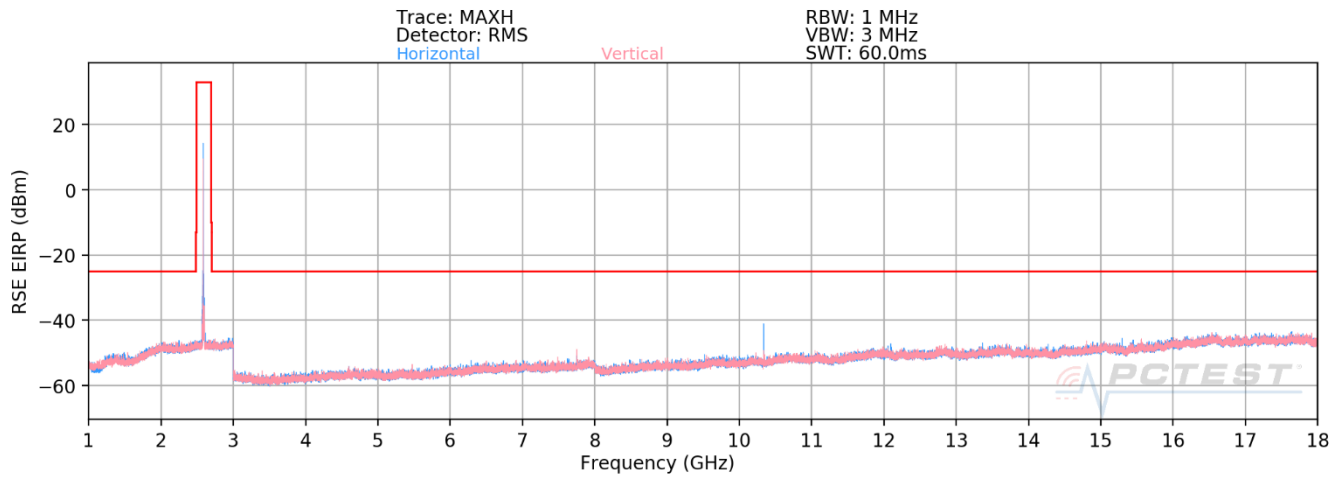
OPERATING FREQUENCY: 2560.00 MHz
MODULATION SIGNAL: QPSK
BANDWIDTH: 20.0 MHz
DISTANCE: 3 meters
LIMIT: -25 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5120.00	H	-	-	-71.39	9.00	-62.39	-37.4
7680.00	H	263	218	-66.69	9.58	-57.11	-32.1
10240.00	H	285	278	-61.60	9.73	-51.87	-26.9
12800.00	H	-	-	-63.34	9.36	-53.98	-29.0
15360.00	H	-	-	-62.17	8.97	-53.20	-28.2

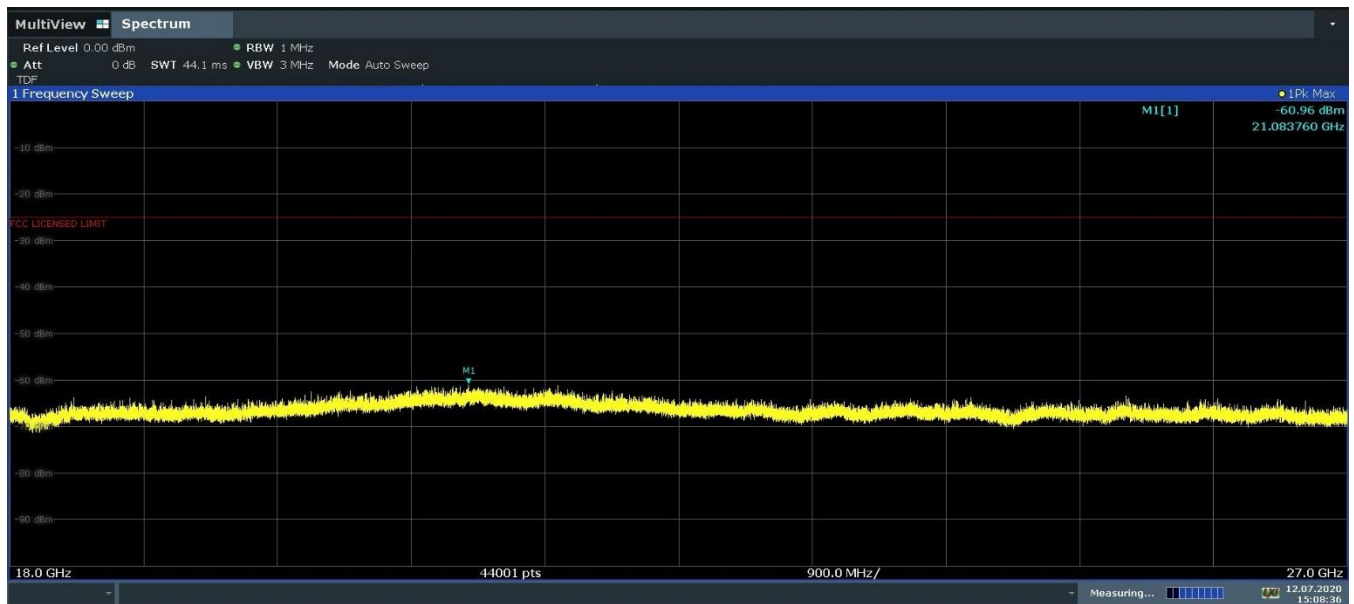
Table 7-36. Radiated Spurious Data (Band 7 – High Channel)

FCC ID: BCG-A2353	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Band 41

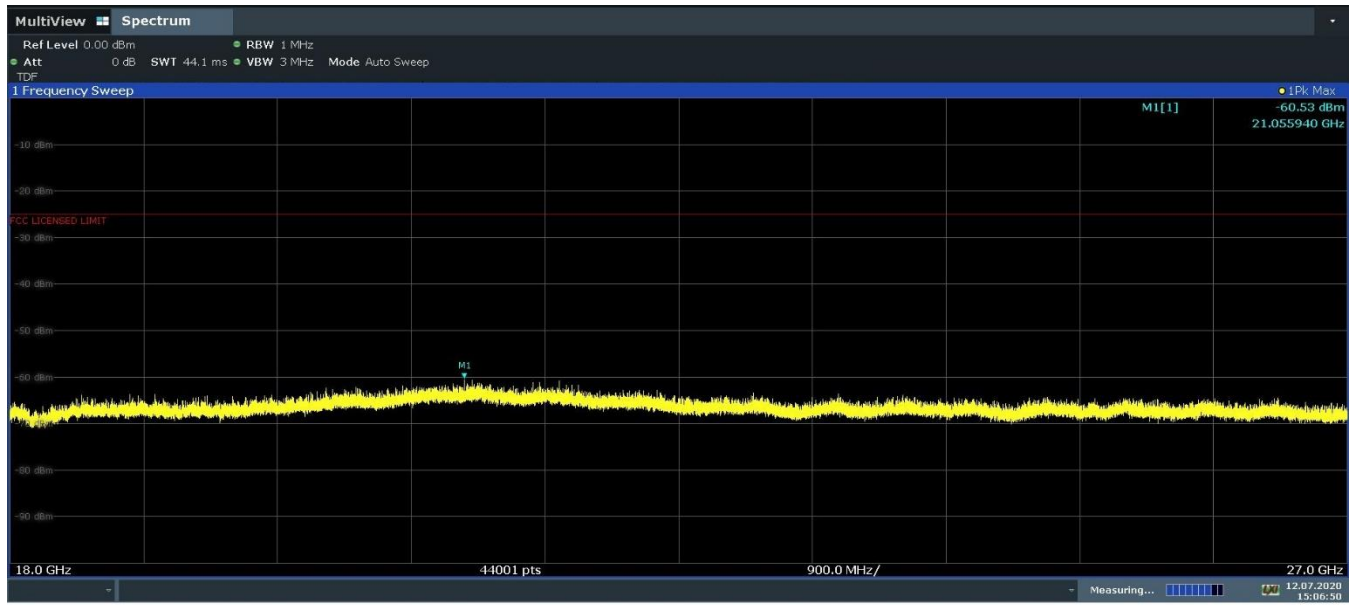


Plot 7-331. Radiated Spurious Emissions 1GHz - 18GHz (Band 41)



Plot 7-332. Radiated Spurious Emissions 18GHz – 27GHz (Band 41, Pol. H)

FCC ID: BCG-A2353	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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15:06:50 12.07.2020

Plot 7-333. Radiated Spurious Emissions 18GHz – 27GHz (Band 41, Pol. V)

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]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5012.00	H	333	167	-61.17	8.74	-52.43	-27.4
7518.00	H	173	260	-52.19	9.49	-42.70	-17.7
10024.00	H	141	267	-54.72	9.67	-45.05	-20.1
12530.00	H	-	-	-54.11	9.56	-44.54	-19.5
15036.00	H	-	-	-52.11	9.17	-42.93	-17.9

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

FCC ID: BCG-A2353	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270023-03.BCG	Test Dates: 06/12/2020-08/20/2020	EUT Type: Watch	Page 218 of 238

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]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5186.00	H	-	-	-61.98	9.21	-52.77	-27.8
7779.00	V	241	9	-54.58	9.62	-44.96	-20.0
10372.00	H	249	165	-49.90	9.75	-40.15	-15.1
12965.00	H	-	-	-55.98	9.37	-46.61	-21.6
15558.00	H	-	-	-54.59	9.00	-45.59	-20.6

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]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5360.00	H	205	10	-60.89	9.22	-51.67	-26.7
8040.00	H	103	210	-52.71	9.70	-43.01	-18.0
10720.00	H	190	285	-55.47	9.72	-45.75	-20.7
13400.00	H	-	-	-54.91	9.31	-45.59	-20.6

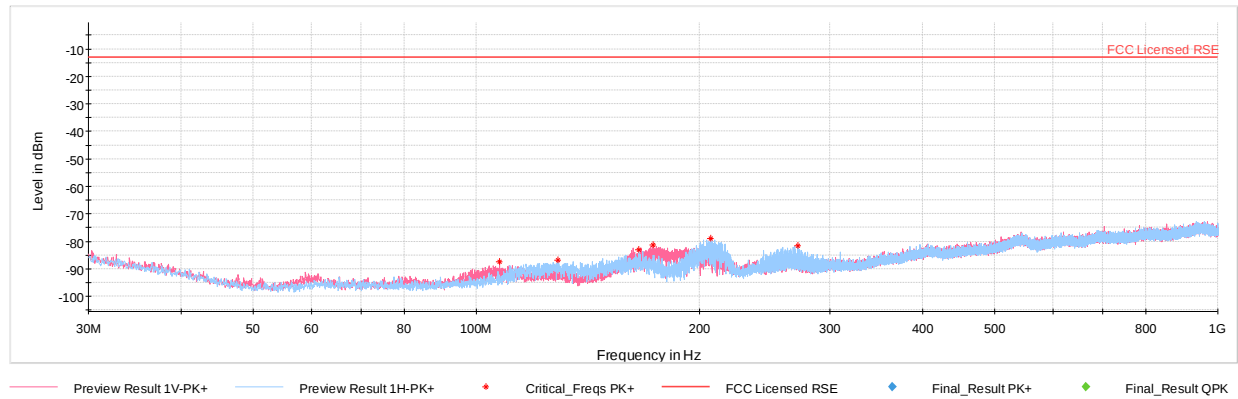
Table 7-39. Radiated Spurious Data (Band 41 – High Channel)

FCC ID: BCG-A2353	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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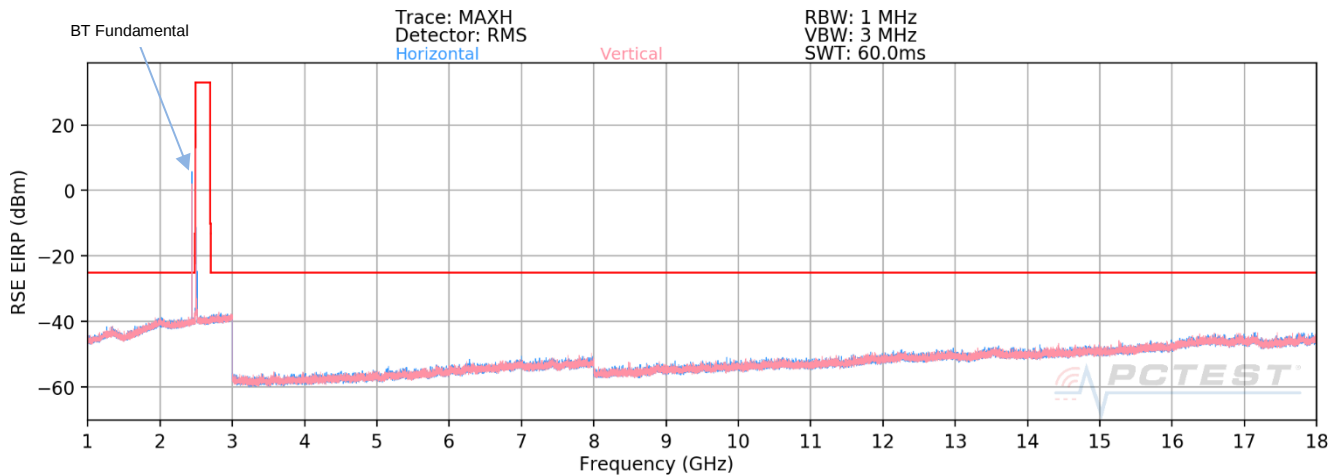
7.7.1 Simultaneous Tx Radiated Spurious Emissions Measurements

Description	Bluetooth	LTE (Band 41)
Antenna	FCM	FCM
Channel	39	39750
Operating Frequency (MHz)	2441	2506
Mode/Modulation	GFSK ePA	QPSK/1RB/20MHz

Table 7-40. Worst Case Simultaneous Transmission Configuration



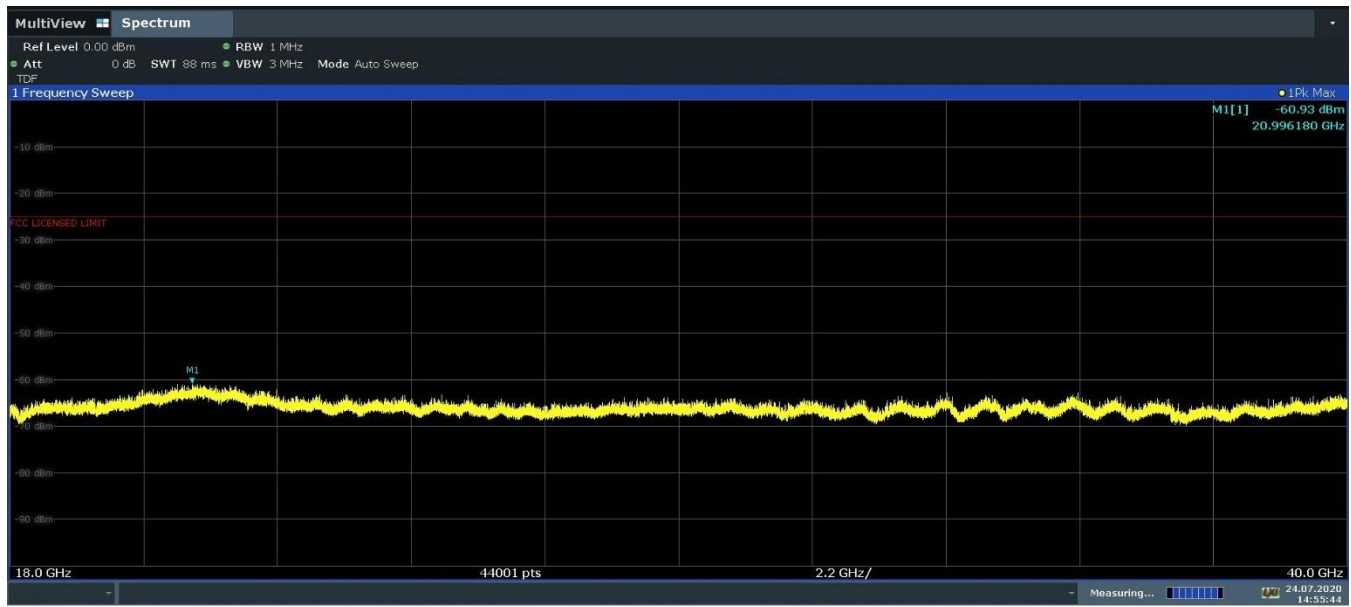
Plot 7-334. Radiated Spurious Emissions – Simultaneous Transmission 30MHz – 1GHz



Plot 7-335. Radiated Spurious Emissions – Simultaneous Transmission 1GHz – 18GHz

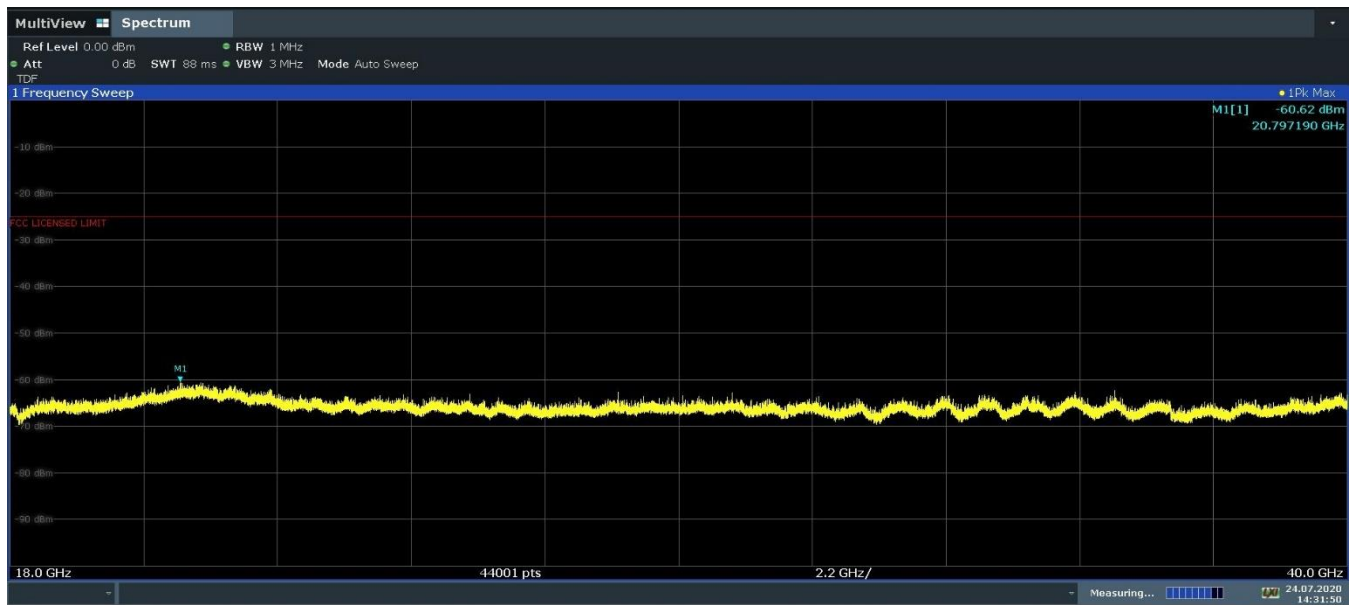
Note: Only the LTE B41 limit was shown in the plot above. The other fundamental is BT.

FCC ID: BCG-A2353	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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14:55:44 24.07.2020

Plot 7-336. Radiated Spurious Emissions – Simultaneous Transmission 18GHz – 40GHz (Pol. H)



14:31:51 24.07.2020

Plot 7-337. Radiated Spurious Emissions – Simultaneous Transmission 18GHz – 40GHz (Pol. V)

FCC ID: BCG-A2353	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270023-03.BCG	Test Dates: 06/12/2020-08/20/2020	EUT Type: Watch	Page 221 of 238

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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]
4882.00	Avg	H	-	-	-81.61	13.39	38.78	53.98	-15.20
4882.00	Peak	H	-	-	-70.66	13.39	49.73	73.98	-24.25
7323.00	Avg	H	261	320	-74.79	16.48	48.69	53.98	-5.29
7323.00	Peak	H	261	320	-67.69	16.48	55.79	73.98	-18.19
12205.00	Avg	H	-	-	-85.12	22.54	44.42	53.98	-9.56
12205.00	Peak	H	-	-	-74.26	22.54	55.28	73.98	-18.70

Table 7-41. BT Harmonics Emissions Measurements in Simultaneous Transmission Mode

Frequency [MHz]	Detector	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]	Limit [dBm]	Margin [dB]
5012.00	Avg	H	-	-	-57.81	10.02	-47.78	-25.0	-22.8
7518.00	Avg	H	-	-	-56.54	12.00	-44.55	-25.0	-19.5
10024.00	Avg	H	-	-	-57.91	13.04	-44.87	-25.0	-19.9
12530.00	Avg	H	-	-	-55.40	13.22	-42.18	-25.0	-17.2
2376.00	Avg	H	164	311	-46.82	6.16	-40.66	-25.0	-15.7

Table 7-42. LTE Harmonics and Intermodulations Emissions Measurements in Simultaneous Transmission Mode

FCC ID: BCG-A2353	 PCTEST Proud to be part of 	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 C63.26-2015/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 C63.26 2015

TIA-603-E-2016

Test Settings

- The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
- 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.
- 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

The EUT was connected via an RF cable to a wideband radio communication tester with the EUT placed inside an environmental chamber.



Figure 7-8. Test Instrument & Measurement Setup

Test Notes

None

FCC ID: BCG-A2353	PCTEST Proud to be part of element	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	707,500,001	1.1	0.0000002
100 %		- 20	707,500,001	1.3	0.0000002
100 %		- 10	707,500,001	1.4	0.0000002
100 %		0	707,500,001	1.5	0.0000002
100 %		+ 10	707,500,001	0.9	0.0000001
100 %		+ 20	707,500,001	1.1	0.0000002
100 %		+ 30	707,500,001	1.1	0.0000002
100 %		+ 40	707,500,001	1.2	0.0000002
100 %		+ 50	707,500,002	1.9	0.0000003
BATT. ENDPOINT	3.40	+ 20	707,500,001	1.2	0.0000002

Table 7-43. Frequency Stability Data (Band 12/17 – 10MHz QPSK – Full RB Configuration)

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-A2353		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Band 12/17 Frequency Stability Measurements

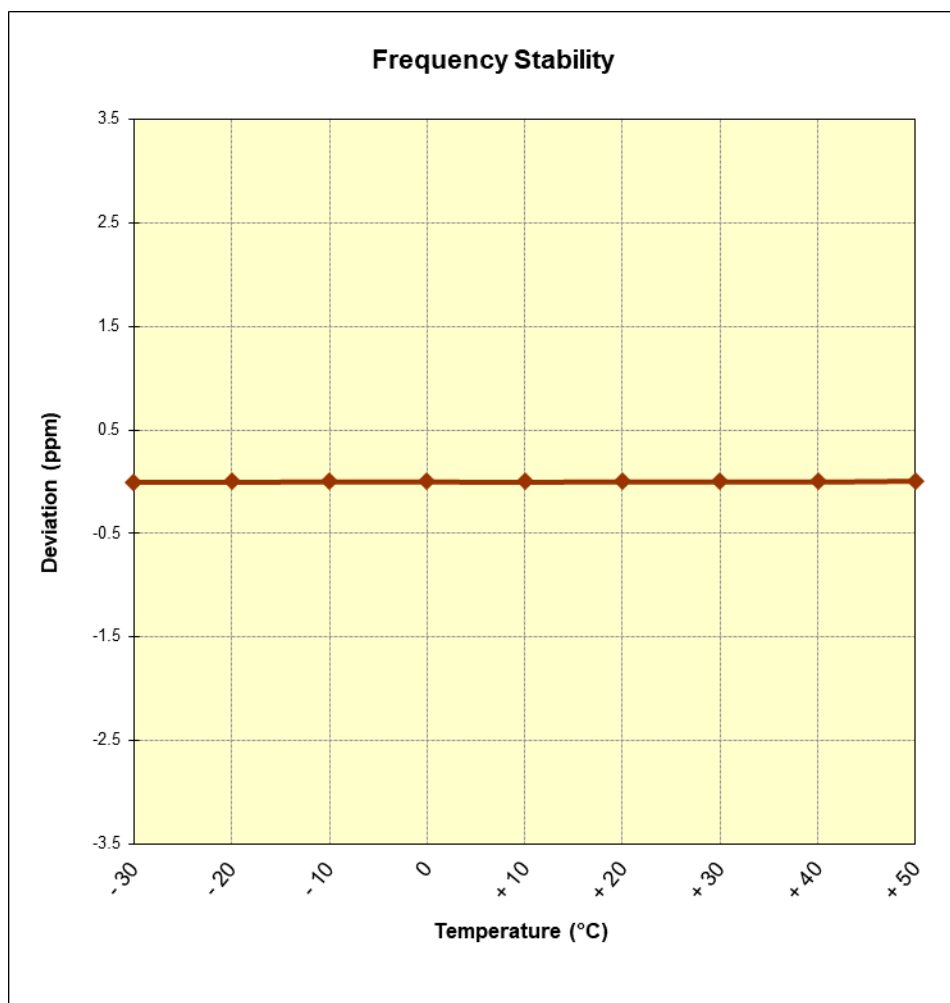


Figure 7-9. Frequency Stability Graph (Band 12/17 – 10MHz QPSK – Full RB Configuration)

FCC ID: BCG-A2353	 PCTEST Proud to be part of 	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	782,000,002	2.0	0.0000003
100 %		- 20	782,000,002	1.6	0.0000002
100 %		- 10	782,000,002	2.1	0.0000003
100 %		0	782,000,002	1.9	0.0000002
100 %		+ 10	782,000,002	2.0	0.0000003
100 %		+ 20	782,000,002	2.0	0.0000003
100 %		+ 30	782,000,002	1.6	0.0000002
100 %		+ 40	782,000,001	1.2	0.0000002
100 %		+ 50	782,000,003	2.6	0.0000003
BATT. ENDPOINT	3.40	+ 20	782,000,002	1.9	0.0000002

Table 7-44. Frequency Stability Data (Band 13 – 10MHz QPSK – Full RB Configuration)

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-A2353		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Band 13 Frequency Stability Measurements

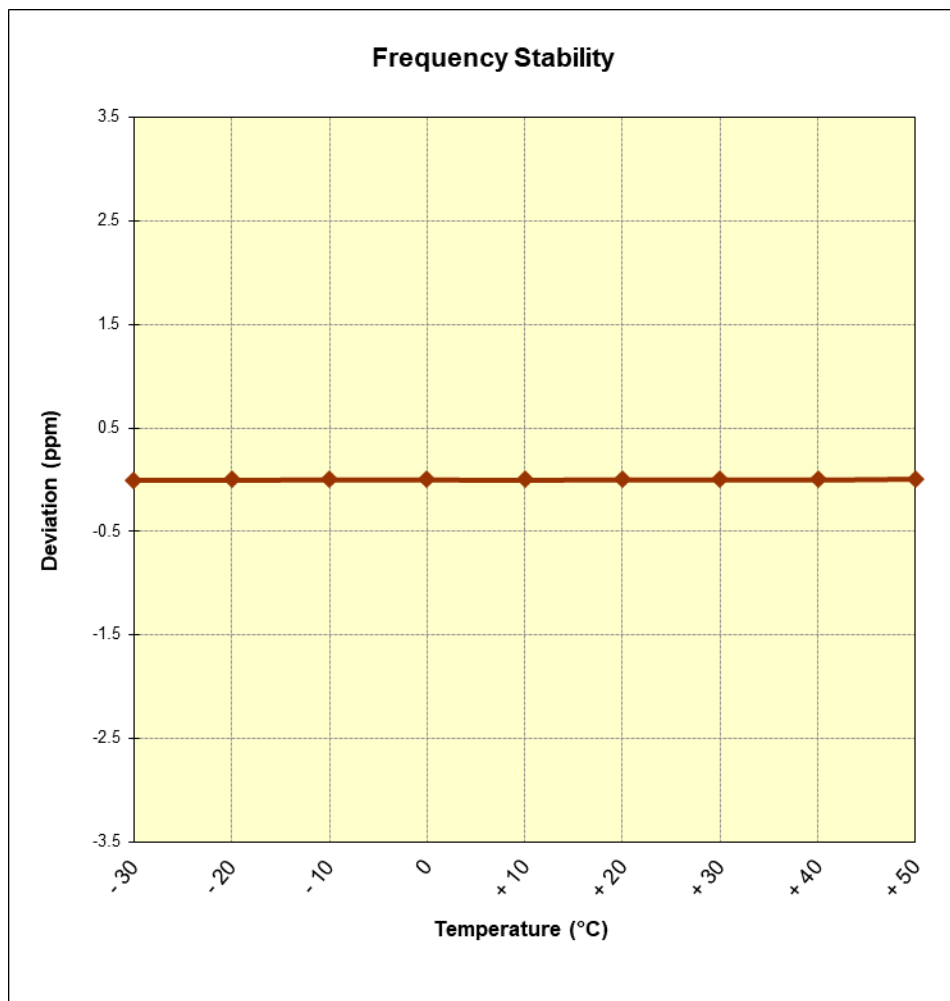


Figure 7-10. Frequency Stability Graph (Band 13 – 10MHz QPSK – Full RB Configuration)

FCC ID: BCG-A2353	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Band 26/5 Frequency Stability Measurements

OPERATING FREQUENCY: 836,500,000 Hz
CHANNEL: 26865
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	836,500,001	0.5	0.00000006
100 %		- 20	836,500,000	0.3	0.00000003
100 %		- 10	836,500,000	0.1	0.00000002
100 %		0	836,500,000	0.1	0.00000001
100 %		+ 10	836,500,000	0.1	0.00000001
100 %		+ 20	836,500,000	0.3	0.00000003
100 %		+ 30	836,500,000	0.4	0.00000004
100 %		+ 40	836,500,001	0.5	0.00000006
100 %		+ 50	836,500,001	0.6	0.00000008
BATT. ENDPOINT		+ 20	836,500,001	0.9	0.00000010

Table 7-45. Frequency Stability Data (Band 26/5 – 10MHz QPSK – Full RB Configuration)

FCC ID: BCG-A2353	 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Band 26/5 Frequency Stability Measurements

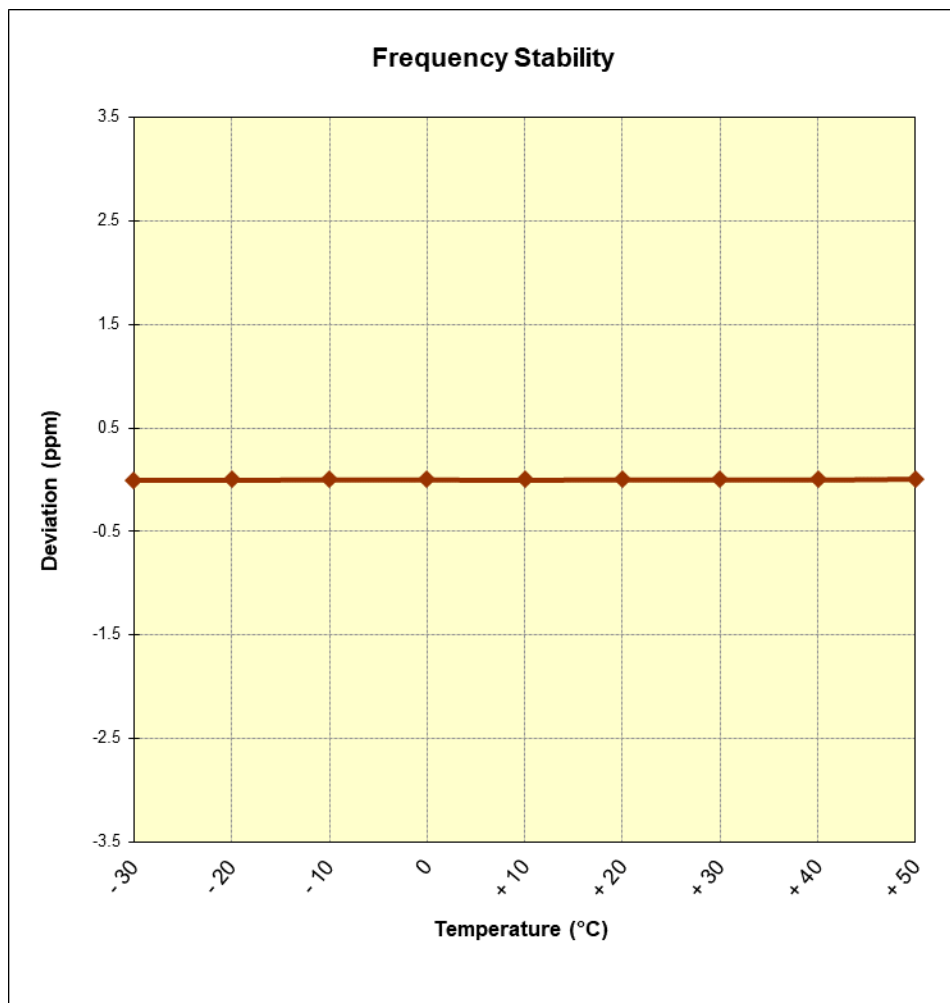


Figure 7-11. Frequency Stability Graph (Band 26/5 – 10MHz QPSK – Full RB Configuration)

FCC ID: BCG-A2353	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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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	1,744,999,999	-1.0	-0.00000006
100 %		- 20	1,744,999,999	-0.6	-0.00000004
100 %		- 10	1,745,000,000	-0.4	-0.00000002
100 %		0	1,745,000,000	-0.3	-0.00000002
100 %		+ 10	1,744,999,999	-0.7	-0.00000004
100 %		+ 20	1,745,000,000	-0.2	-0.00000001
100 %		+ 30	1,745,000,000	-0.1	-0.00000001
100 %		+ 40	1,745,000,000	-0.4	-0.00000002
100 %		+ 50	1,745,000,001	0.9	0.00000005
BATT. ENDPOINT	3.40	+ 20	1,745,000,001	0.8	0.00000004

Table 7-46. Frequency Stability Data (Band 66/4 – 20MHz QPSK – Full RB Configuration)

FCC ID: BCG-A2353		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270023-03.BCG	Test Dates: 06/12/2020-08/20/2020	EUT Type: Watch	Page 230 of 238

Band 66/4 Frequency Stability Measurements

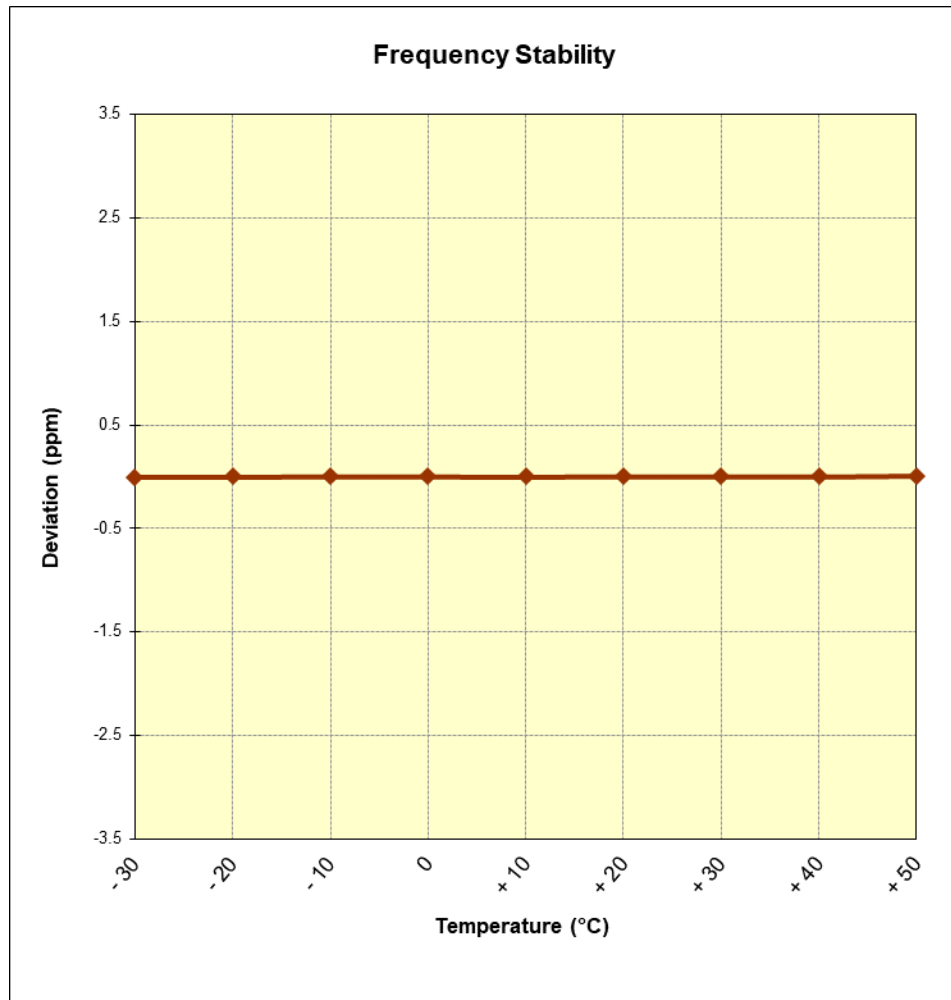


Figure 7-12. Frequency Stability Graph (Band 66/4 – 20MHz QPSK – Full RB Configuration)

FCC ID: BCG-A2353	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270023-03.BCG	Test Dates: 06/12/2020-08/20/2020	EUT Type: Watch	Page 231 of 238

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	1,882,500,000	0.2	0.00000001
100 %		- 20	1,882,500,000	0.3	0.00000002
100 %		- 10	1,882,500,000	0.1	0.00000001
100 %		0	1,882,500,000	-0.2	-0.00000001
100 %		+ 10	1,882,500,000	-0.4	-0.00000002
100 %		+ 20	1,882,500,000	0.1	0.00000001
100 %		+ 30	1,882,500,000	-0.4	-0.00000002
100 %		+ 40	1,882,500,000	0.3	0.00000002
100 %		+ 50	1,882,500,001	0.9	0.00000005
BATT. ENDPOINT	3.40	+ 20	1,882,500,001	0.8	0.00000004

Table 7-47. Frequency Stability Data (Band 25/2 – 20MHz QPSK – Full RB Configuration)

FCC ID: BCG-A2353		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270023-03.BCG	Test Dates: 06/12/2020-08/20/2020	EUT Type: Watch		Page 232 of 238

Band 25/2 Frequency Stability Measurements

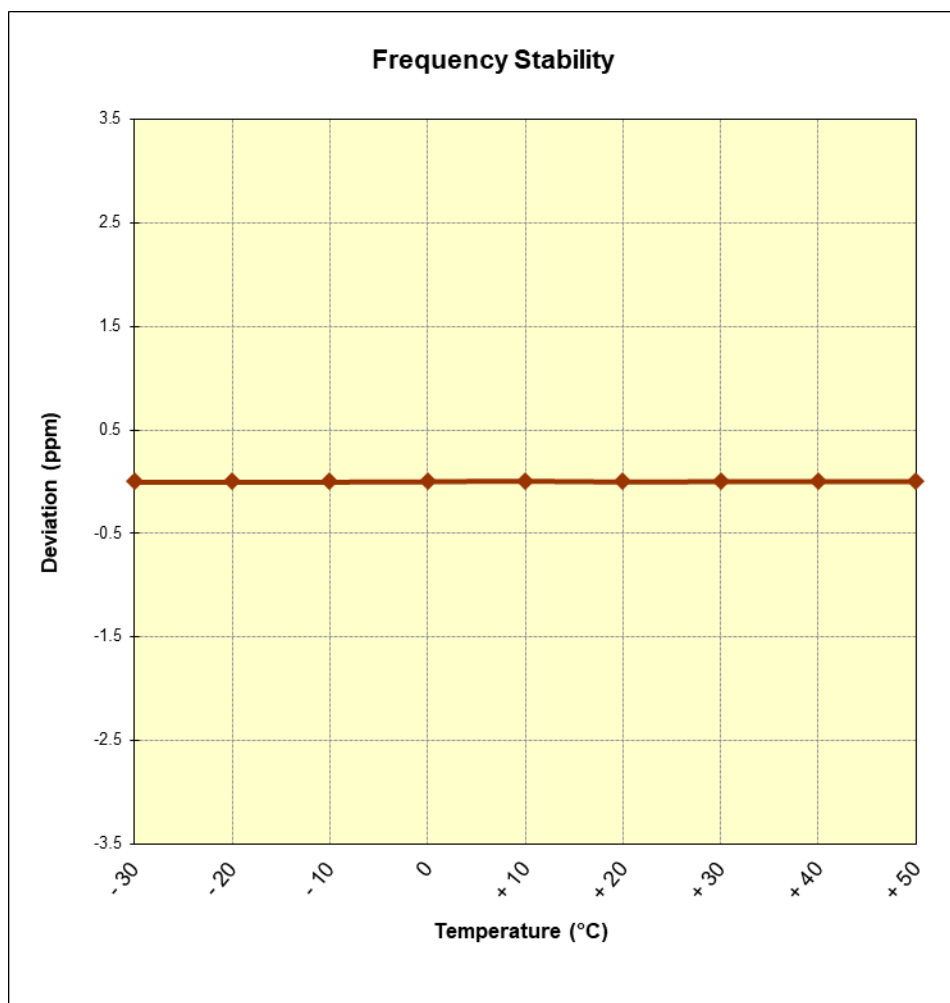


Figure 7-13. Frequency Stability Graph (Band 25/2 – 20MHz QPSK – Full RB Configuration)

FCC ID: BCG-A2353	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270023-03.BCG	Test Dates: 06/12/2020-08/20/2020	EUT Type: Watch	Page 233 of 238

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	2,535,000,001	1.0	0.00000004
100 %		- 20	2,535,000,001	1.4	0.00000006
100 %		- 10	2,535,000,001	1.3	0.00000005
100 %		0	2,535,000,002	1.8	0.00000007
100 %		+ 10	2,535,000,002	2.5	0.00000010
100 %		+ 20	2,535,000,001	1.5	0.00000006
100 %		+ 30	2,535,000,002	2.0	0.00000008
100 %		+ 40	2,535,000,002	2.0	0.00000008
100 %		+ 50	2,535,000,002	2.0	0.00000008
BATT. ENDPOINT	3.40	+ 20	2,535,000,002	1.6	0.00000006

Table 7-48. Frequency Stability Data (Band 7 – 20MHz QPSK – Full RB Configuration)

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-A2353	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270023-03.BCG	Test Dates: 06/12/2020-08/20/2020	EUT Type: Watch	Page 234 of 238

Band 7 Frequency Stability Measurements

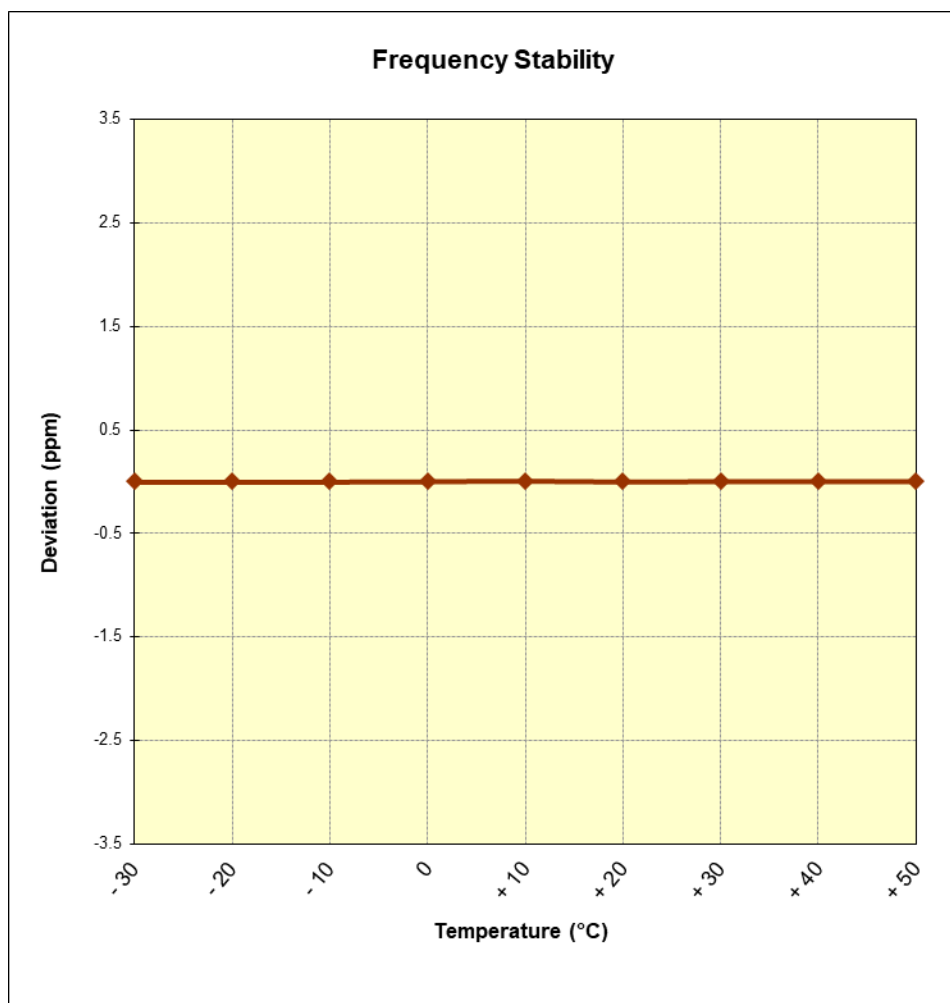


Figure 7-14. Frequency Stability Graph (Band 7 – 20MHz QPSK – Full RB Configuration)

FCC ID: BCG-A2353	 PCTEST Proud to be part of 	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	2,593,000,009	9.4	0.0000004
100 %		- 20	2,593,000,010	10.4	0.0000004
100 %		- 10	2,593,000,009	9.0	0.0000003
100 %		0	2,593,000,010	9.9	0.0000004
100 %		+ 10	2,593,000,010	9.9	0.0000004
100 %		+ 20	2,593,000,009	8.9	0.0000003
100 %		+ 30	2,593,000,010	9.7	0.0000004
100 %		+ 40	2,593,000,005	4.9	0.0000002
100 %		+ 50	2,593,000,004	4.0	0.0000002
BATT. ENDPOINT	3.40	+ 20	2,593,000,004	4.1	0.0000002

Table 7-49. Frequency Stability Data (Band 41 – 20MHz QPSK – Full RB Configuration)

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-A2353		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Band 41 Frequency Stability Measurements

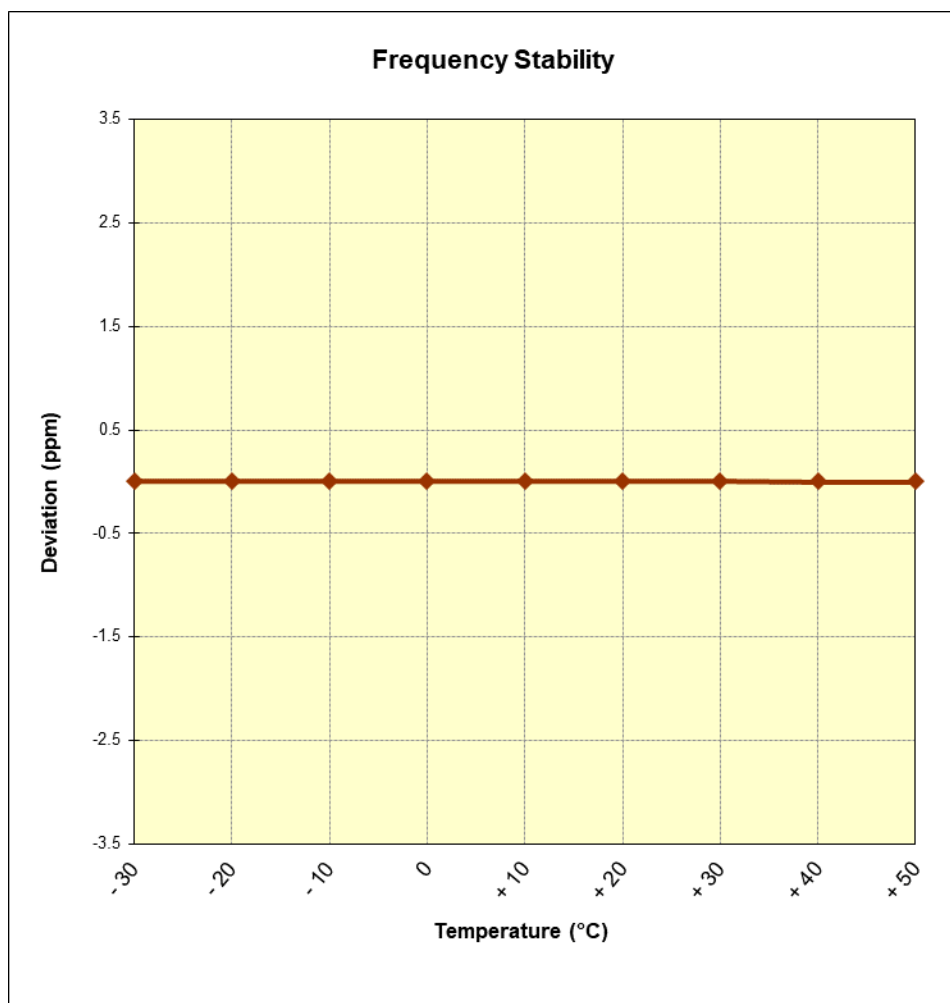


Figure 7-15. Frequency Stability Graph (Band 41 – 20MHz QPSK – Full RB Configuration)

FCC ID: BCG-A2353	PCTEST Proud to be part of element	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-A2353** complies with all the requirements of Part 22, 24, & 27 of the FCC Rules for LTE operation only.

FCC ID: BCG-A2353	 PCTEST Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270023-03.BCG	Test Dates: 06/12/2020-08/20/2020	EUT Type: Watch	Page 238 of 238