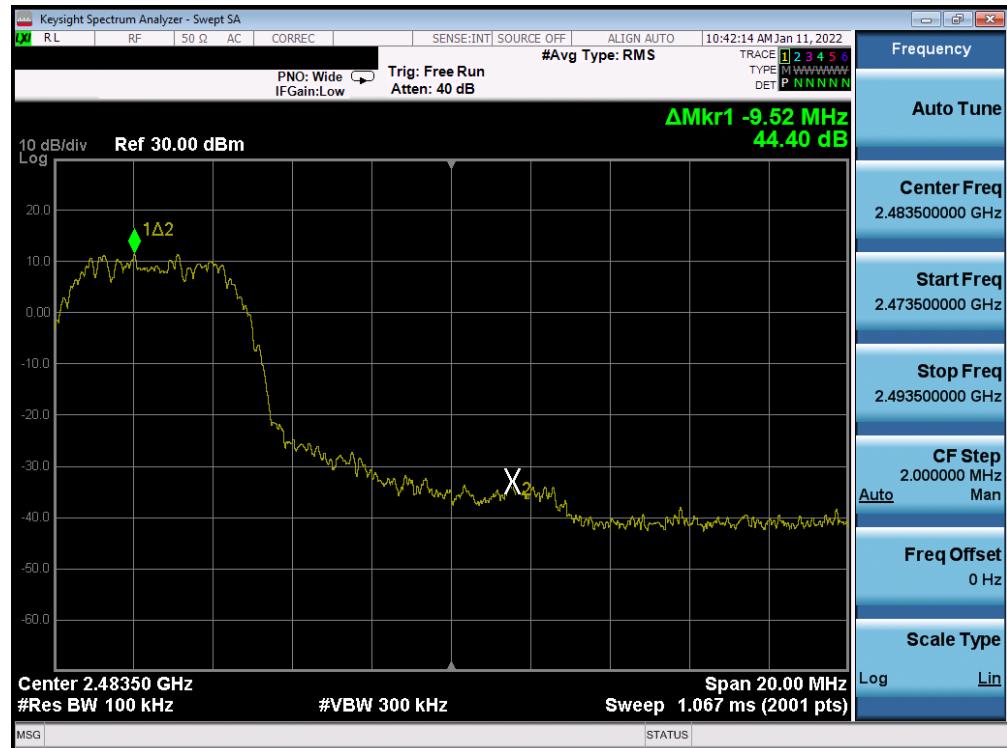




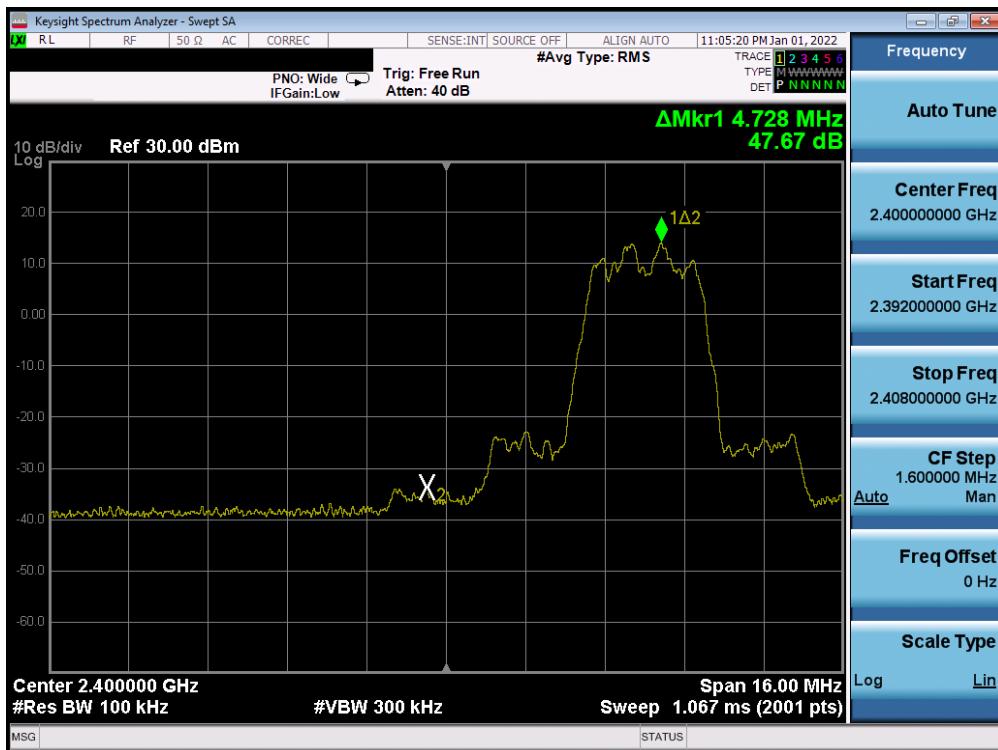
Plot 7-63. Band Edge Plot Antenna WF8 (Bluetooth (HDR8), ePA – Ch. 1)



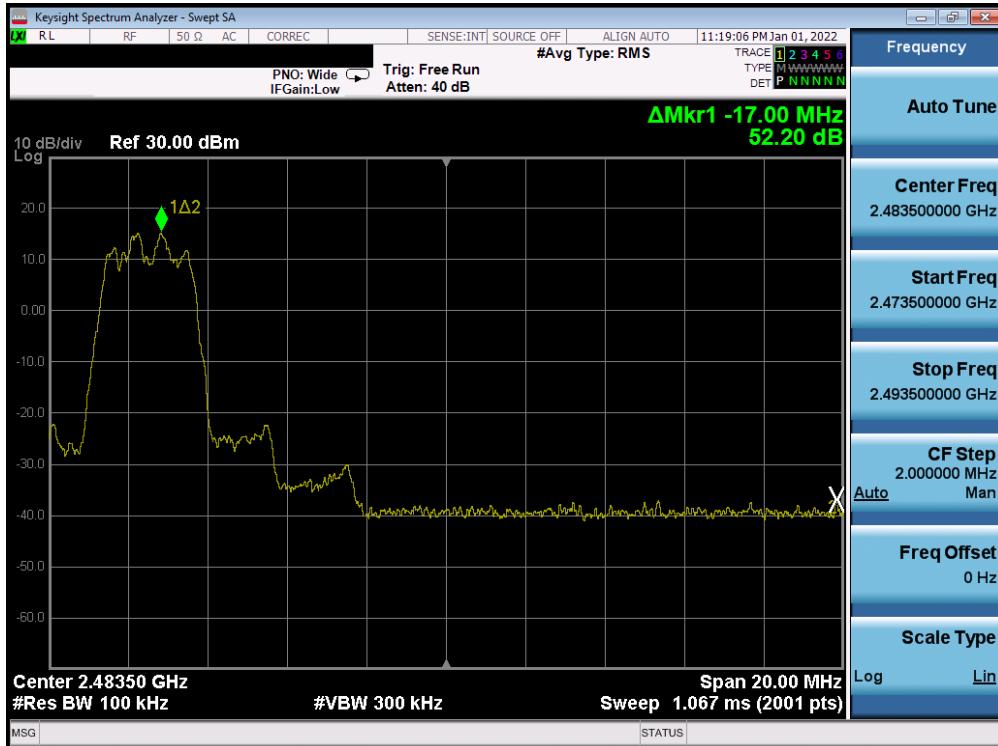
Plot 7-64. Band Edge Plot Antenna WF8 (Bluetooth (HDR8), ePA – Ch. 73)

FCC ID: BCGA2588 IC: 579C-A2588	PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2111150078-03.BCG	Test Dates: 12/02/2021-01/28/2022	EUT Type: Tablet Device	Page 60 of 104

Antenna WF7b

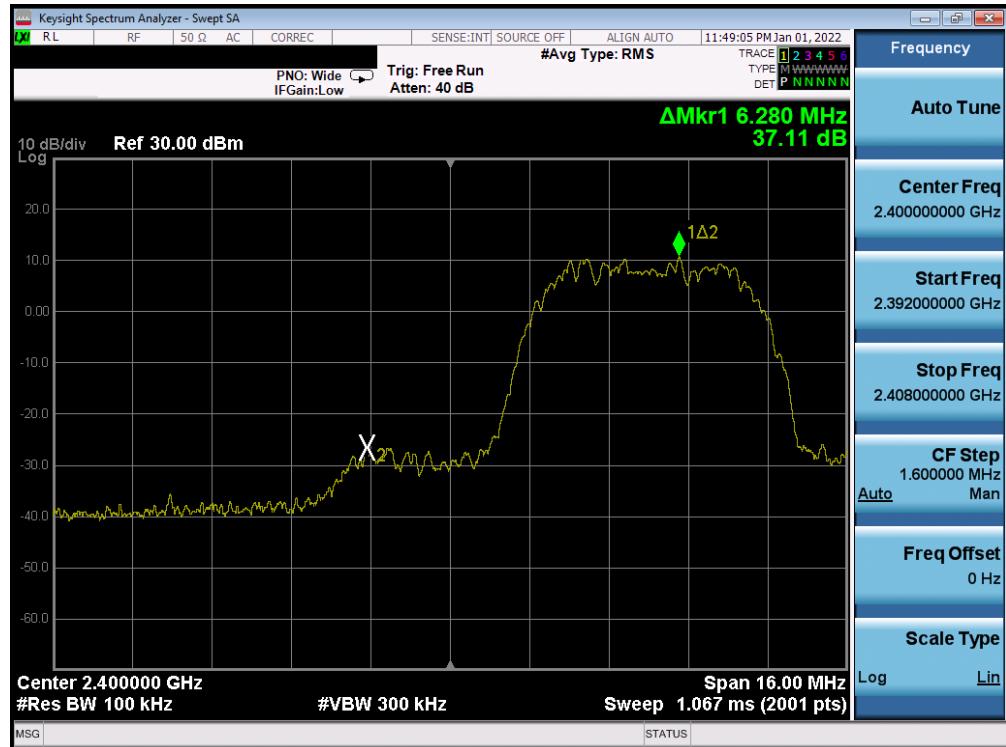


Plot 7-65. Band Edge Plot Antenna WF7b (Bluetooth (HDR4), ePA – Ch. 1)

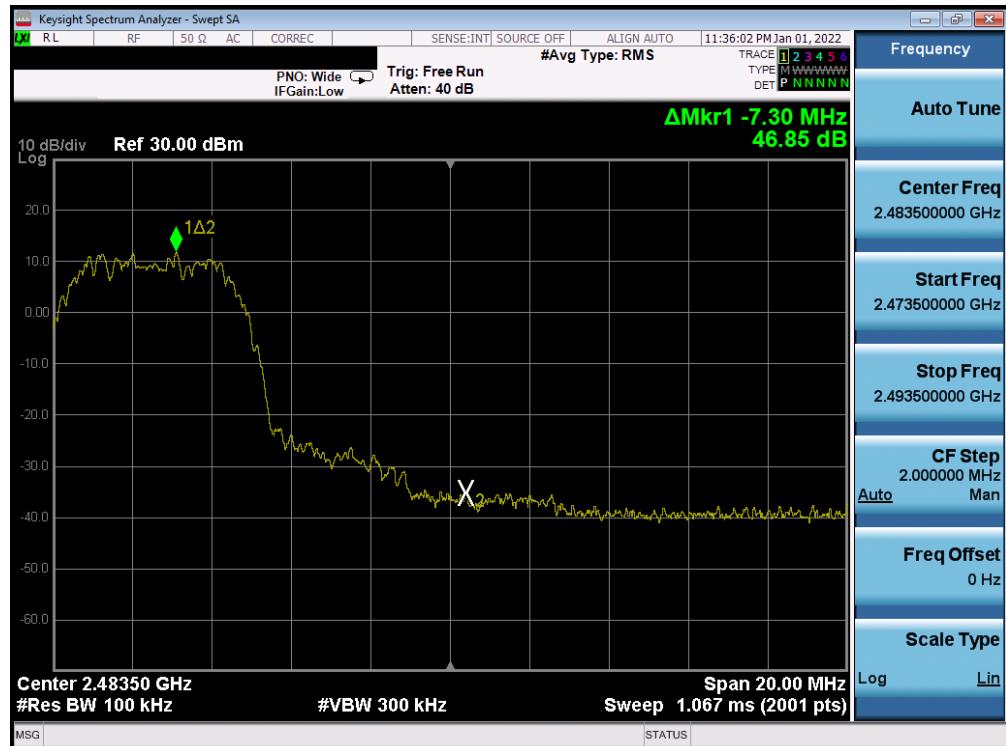


Plot 7-66. Band Edge Plot Antenna WF7b (Bluetooth (HDR4), ePA – Ch. 73)

FCC ID: BCGA2588 IC: 579C-A2588	 PCTEST® Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-67. Band Edge Plot Antenna WF7b (Bluetooth (HDR8), ePA – Ch. 1)



Plot 7-68. Band Edge Plot Antenna WF7b (Bluetooth (HDR8), ePA – Ch. 73)

FCC ID: BCGA2588 IC: 579C-A2588	PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2111150078-03.BCG	Test Dates: 12/02/2021-01/28/2022	EUT Type: Tablet Device	Page 62 of 104

7.6 Conducted Spurious Emissions

§15.247(d); RSS-247 [5.5]

Test Overview and Limit

For the following out of band conducted spurious emissions plots, the EUT was set to transmit at maximum power with the largest packet size available. The worst case spurious emissions were found in this configuration.

The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100kHz bandwidth per the procedure in Section 8.5 of KDB 558074 D01 v05r02 and Subclause 11.11 of ANSI C63.10-2013.

Test Procedure Used

ANSI C63.10-2013 – Subclause 11.11.3
 KDB 558074 D01 v05r02 – Section 8.5

Test Settings

1. Start frequency was set to 30MHz and stop frequency was set to 25GHz (separated into two plots per channel)
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = Peak
5. Trace mode = max hold
6. Sweep time = auto couple
7. The trace was allowed to stabilize

Test Setup

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



Figure 7-5. Test Instrument & Measurement Setup

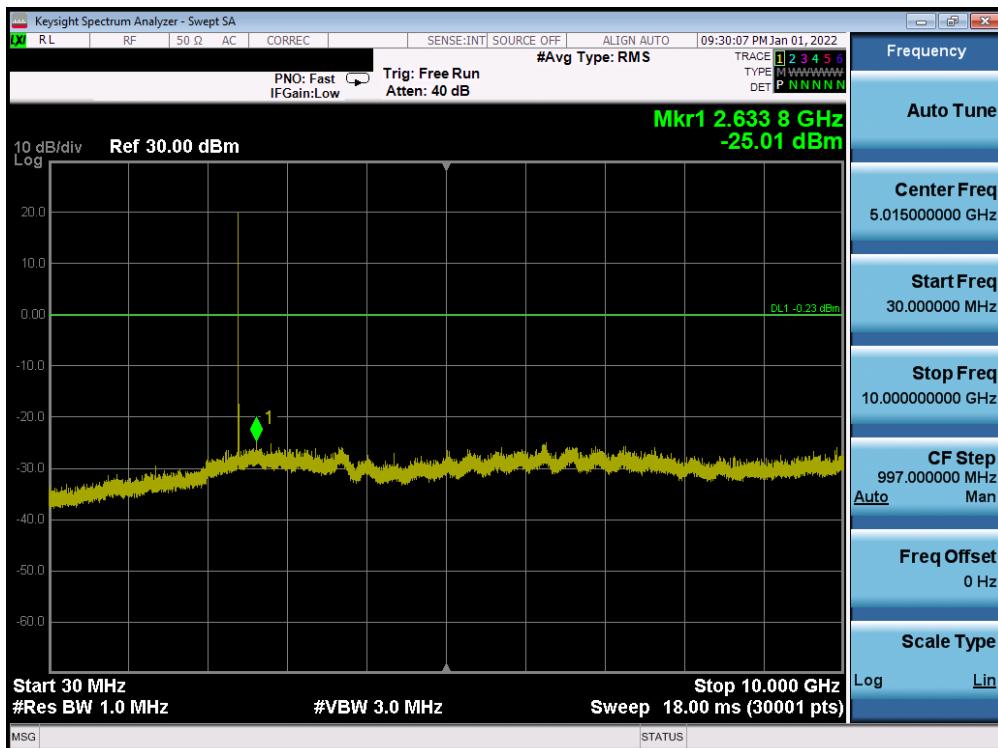
FCC ID: BCGA2588 IC: 579C-A2588	 PCTEST® Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2111150078-03.BCG	Test Dates: 12/02/2021-01/28/2022	EUT Type: Tablet Device	Page 63 of 104	

Test Notes

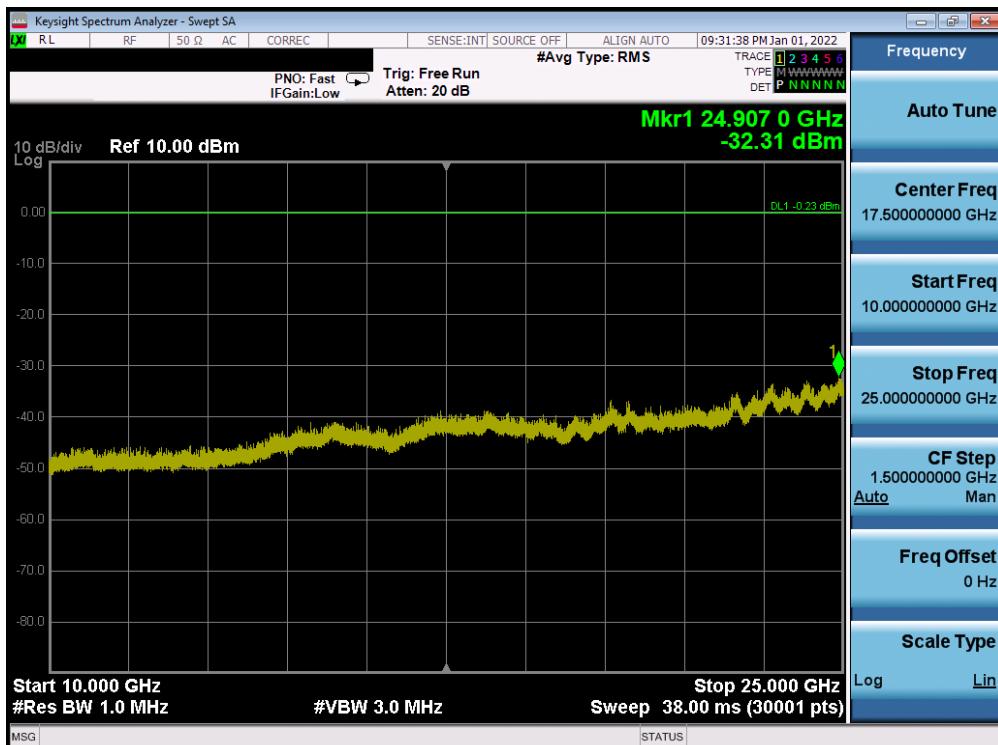
1. RBW was set to 1MHz rather than 100kHz in order to increase the measurement speed.
2. The display line shown in the following plots denotes the limit at 20dB below the fundamental emission level measured in a 100kHz bandwidth. However, since the traces in the following plots are measured with a 1MHz RBW, the display line may not necessarily appear to be 20dB below the level of the fundamental in a 1MHz bandwidth.
3. For plots showing conducted spurious emissions near the limit, the frequencies were investigated with a reduced RBW to ensure that no emissions were present.
4. All supported modulation, antenna (including TxBF mode) and power schemes have been tested on the unit and only worst case configuration is reported.

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Antenna WF8

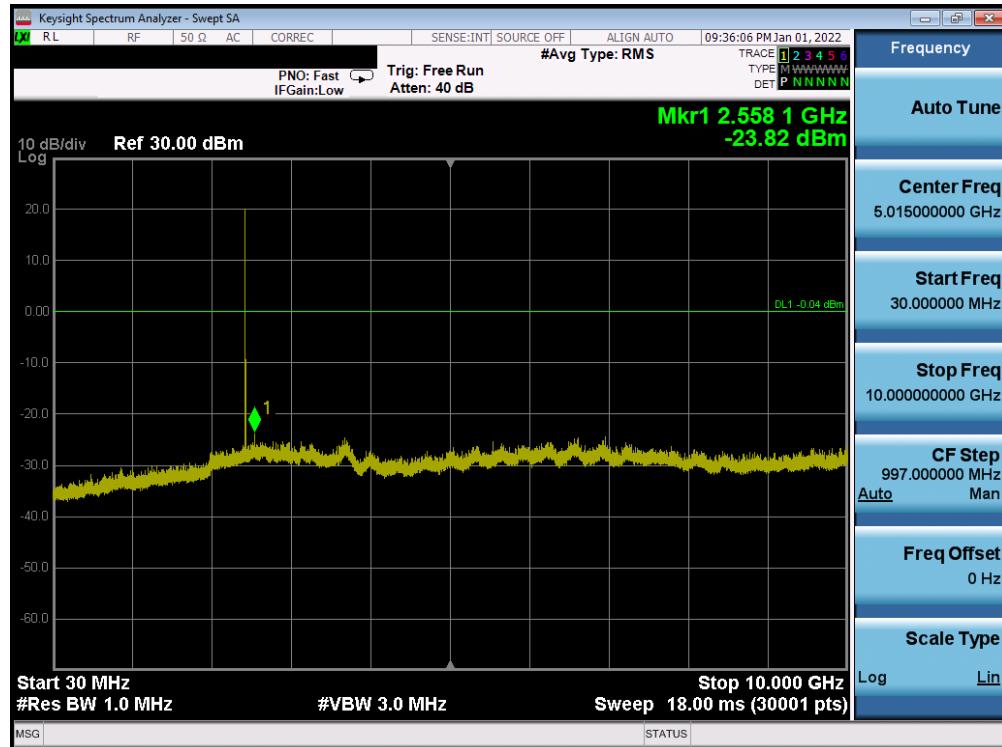


Plot 7-69. Conducted Spurious Plot Antenna WF8 (Bluetooth (HDR4), 4 Mbps, ePA – Ch. 1)

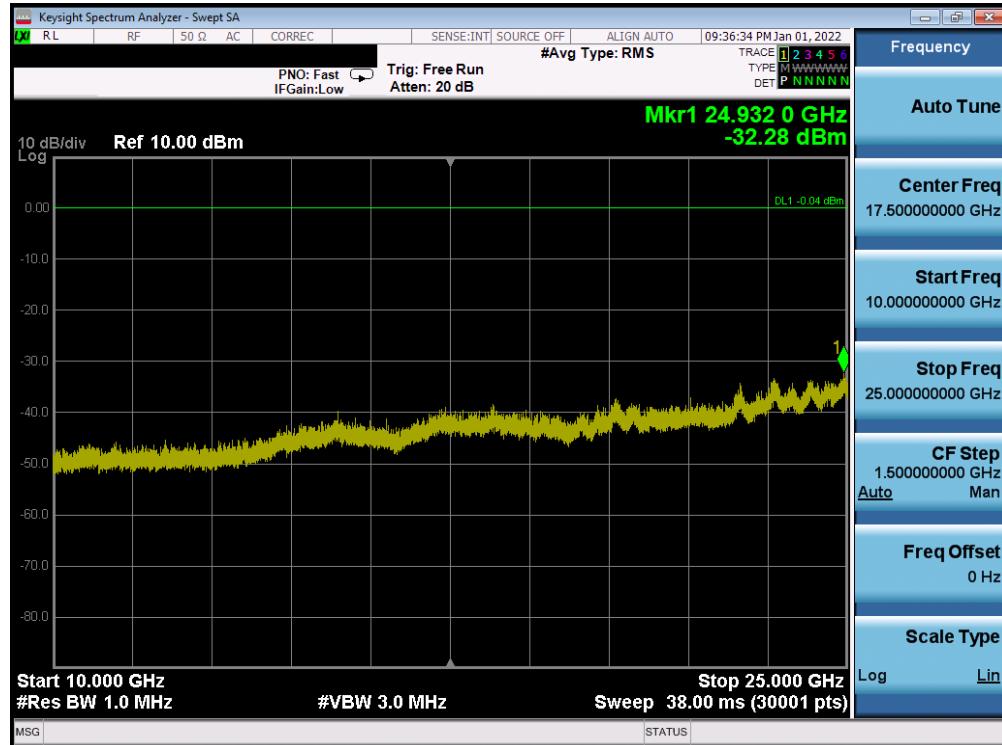


Plot 7-70. Conducted Spurious Plot Antenna WF8 (Bluetooth (HDR4), 4 Mbps, ePA – Ch. 1)

FCC ID: BCGA2588 IC: 579C-A2588	 PCTEST® Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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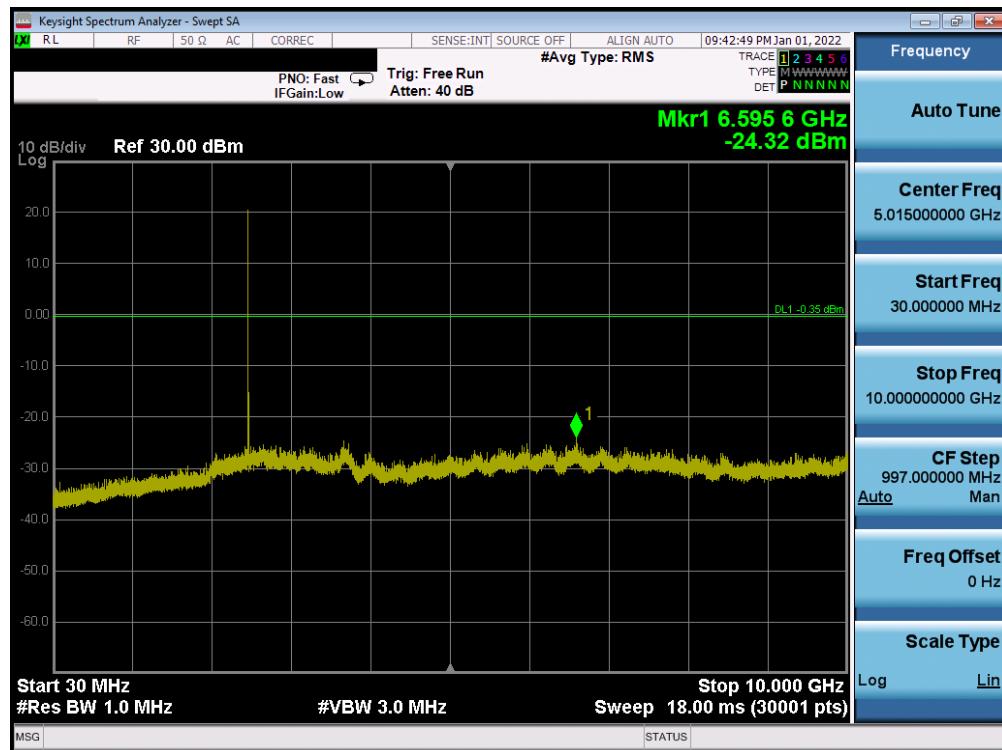


Plot 7-71. Conducted Spurious Plot Antenna WF8 (Bluetooth (HDR4), 4 Mbps, ePA – Ch. 38)

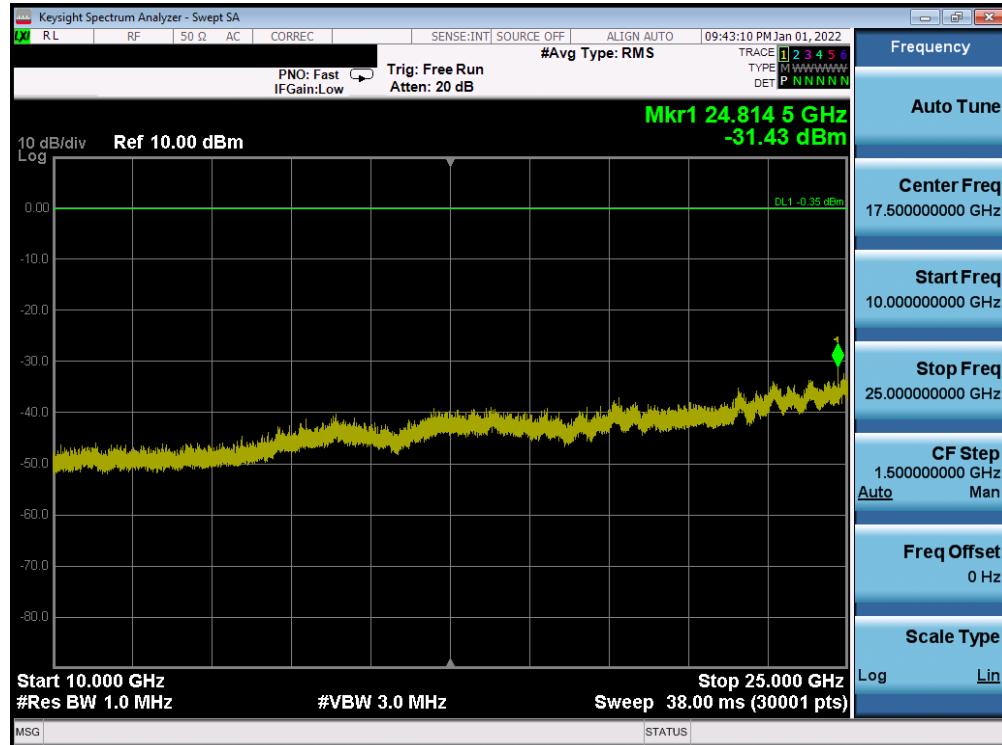


Plot 7-72. Conducted Spurious Plot Antenna WF8 (Bluetooth (HDR4), 4 Mbps, ePA – Ch. 38)

FCC ID: BCGA2588 IC: 579C-A2588	PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2111150078-03.BCG	Test Dates: 12/02/2021-01/28/2022	EUT Type: Tablet Device	Page 66 of 104



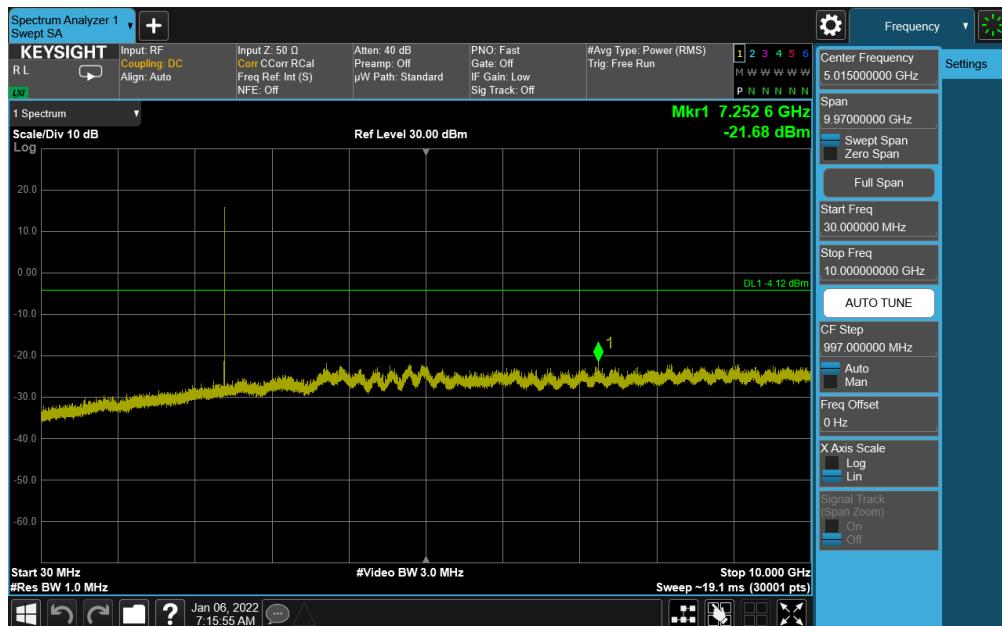
Plot 7-73. Conducted Spurious Plot Antenna WF8 (Bluetooth (HDR4), 4 Mbps, ePA – Ch. 73)



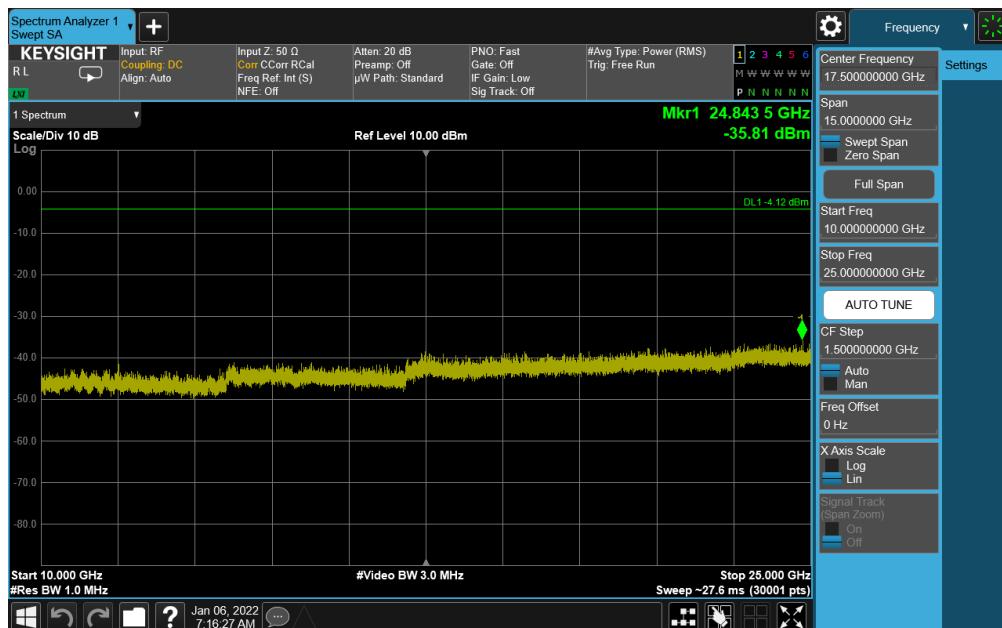
Plot 7-74. Conducted Spurious Plot Antenna WF8 (Bluetooth (HDR4), 4 Mbps, ePA – Ch. 73)

FCC ID: BCGA2588 IC: 579C-A2588	PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2111150078-03.BCG	Test Dates: 12/02/2021-01/28/2022	EUT Type: Tablet Device	Page 67 of 104

Antenna WF7b

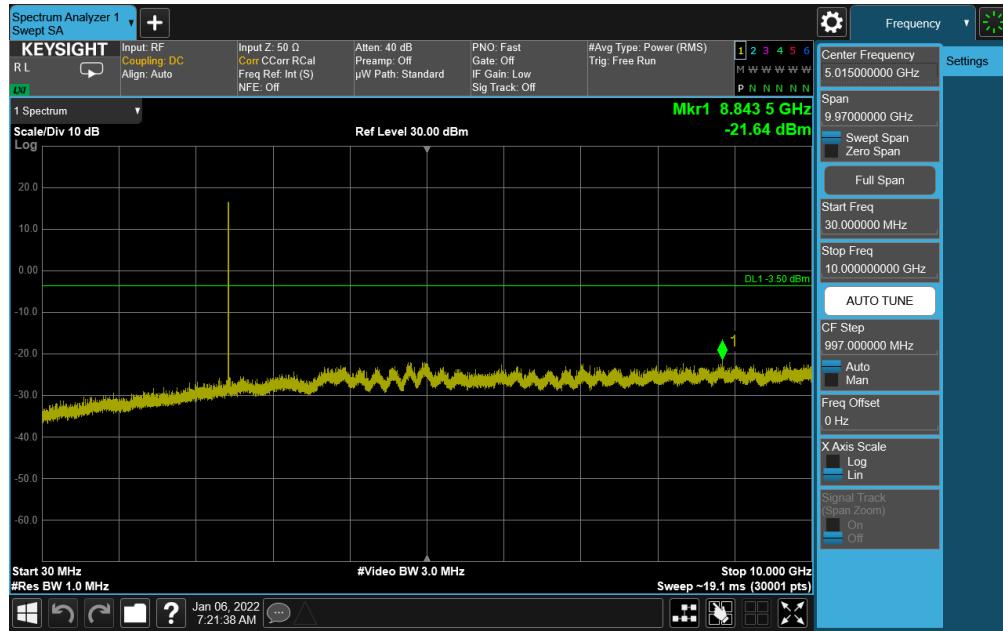


Plot 7-75. Conducted Spurious Plot Antenna WF7b (Bluetooth (HDR4), 4 Mbps, ePA – Ch. 1)

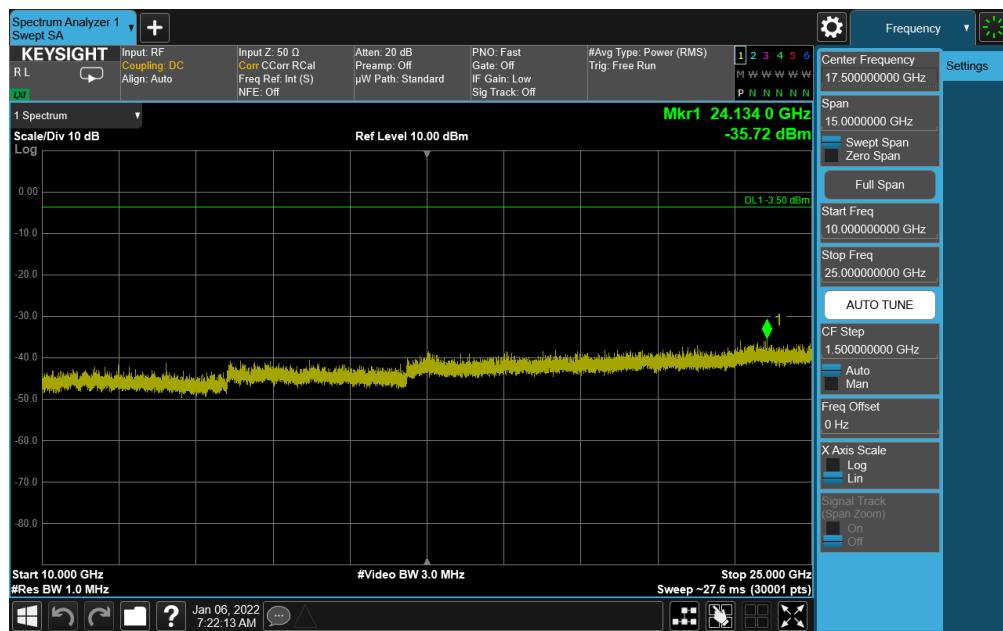


Plot 7-76. Conducted Spurious Plot Antenna WF7b (Bluetooth (HDR4), 4 Mbps, ePA – Ch. 1)

FCC ID: BCGA2588 IC: 579C-A2588	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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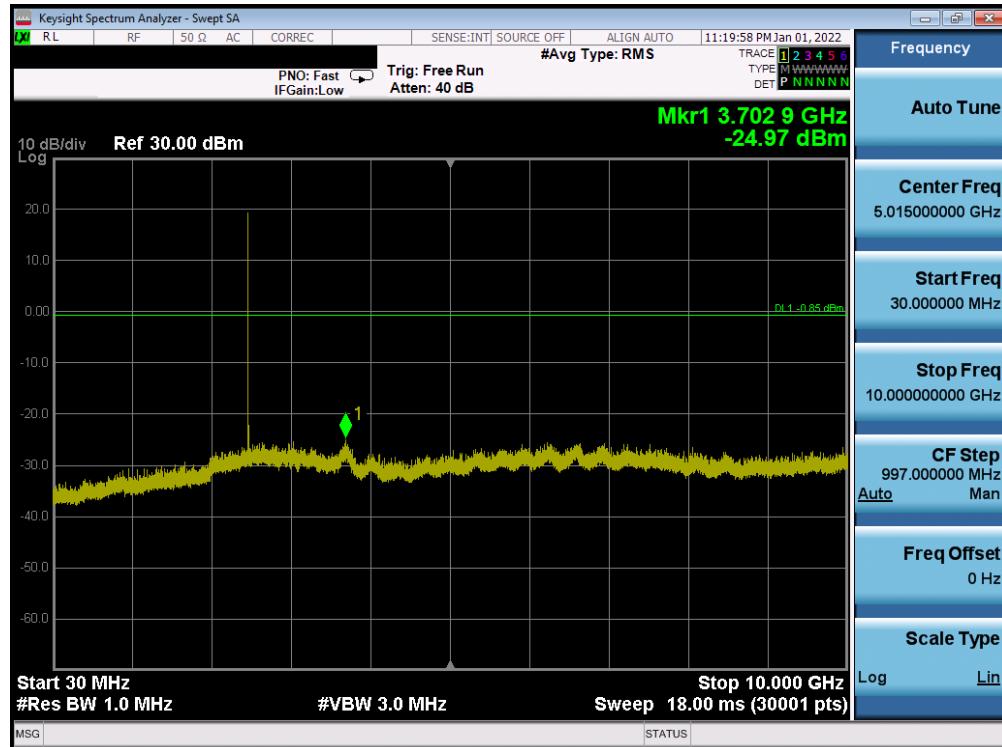


Plot 7-77. Conducted Spurious Plot Antenna WF7b (Bluetooth (HDR4), 4 Mbps, ePA – Ch. 38)

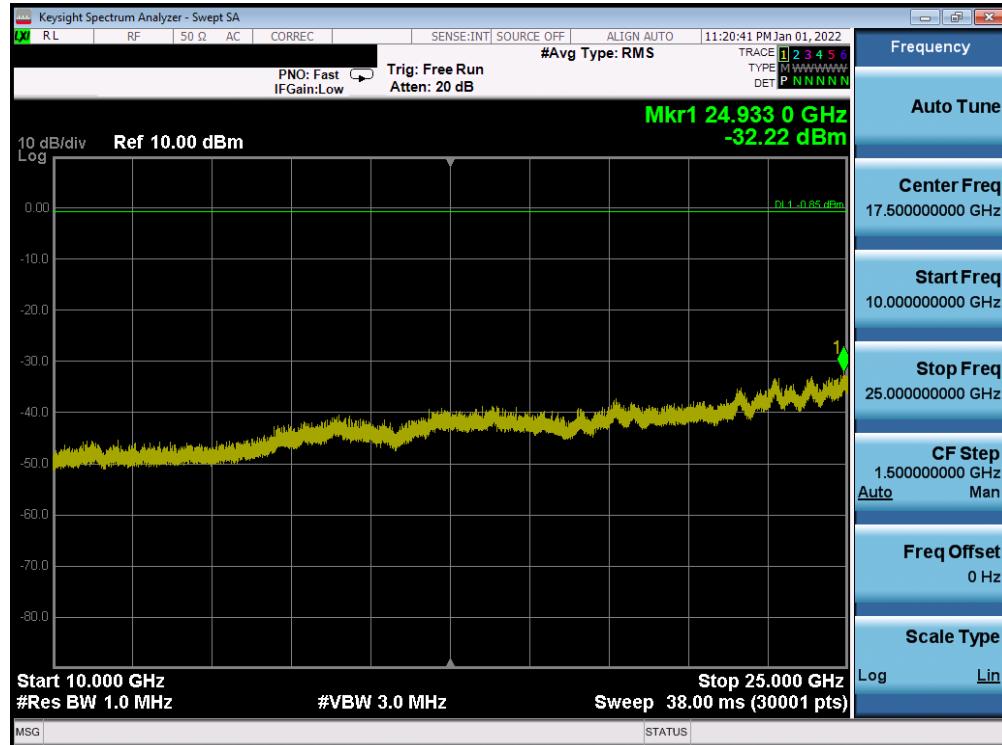


Plot 7-78. Conducted Spurious Plot Antenna WF7b (Bluetooth (HDR4), 4 Mbps, ePA – Ch. 38)

FCC ID: BCGA2588 IC: 579C-A2588	PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-79. Conducted Spurious Plot Antenna WF7b (Bluetooth (HDR4), 4 Mbps, ePA – Ch. 73)



Plot 7-80. Conducted Spurious Plot Antenna WF7b (Bluetooth (HDR4), 4 Mbps, ePA – Ch. 73)

FCC ID: BCGA2588 IC: 579C-A2588	PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2111150078-03.BCG	Test Dates: 12/02/2021-01/28/2022	EUT Type: Tablet Device	Page 70 of 104

7.7 Radiated Spurious Emissions – Above 1GHz

§15.205 §15.209 §15.247(d); RSS-Gen [8.9]

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at maximum power and at the appropriate frequencies. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 7 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-13 per Section 15.209 and RSS-Gen (8.9).

Frequency	Field Strength [μ V/m]	Measured Distance [Meters]
Above 960.0 MHz	500	3

Table 7-13. Radiated Limits

Test Procedures Used

ANSI C63.10-2013 – Subclause 6.6.4.3

KDB 558074 D01 v05r02 – Section 8.6, 8.7

Test Settings

Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = power average (RMS)
5. Number of measurement points = 1001 (Number of points must be $\geq 2 \times \text{span}/\text{RBW}$)
6. Sweep time = auto
7. Trace (RMS) averaging was performed over at least 100 traces

Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

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Test Setup

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

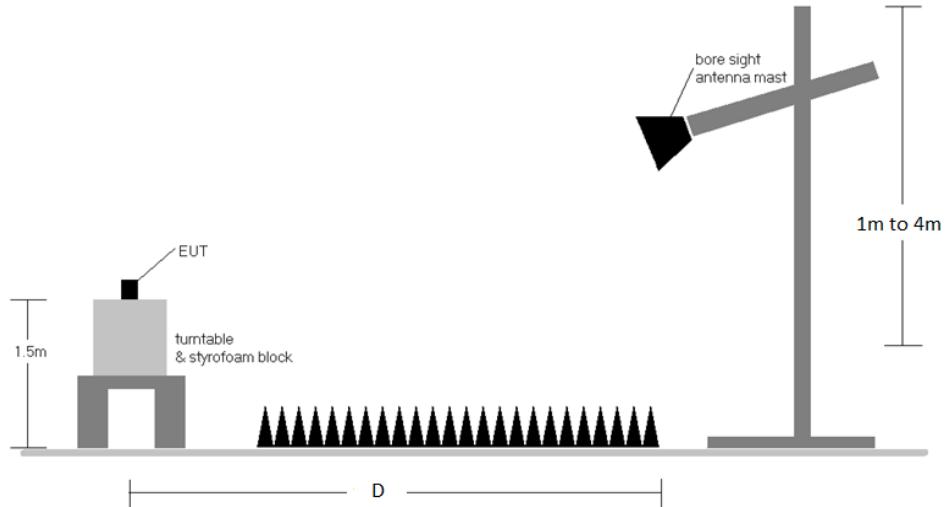


Figure 7-6. Radiated Test Setup >1GHz

Test Notes

1. The optional test procedures for antenna port conducted measurements of unwanted emissions per the guidance of KDB 558074 D01 v05r02 were not used to evaluate this device for compliance to radiated limits. All radiated spurious emissions levels were measured in a radiated test setup.
2. All emissions lying in restricted bands specified in §15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-13.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. This unit was tested with its standard battery.
5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken using linearly polarized horn antennas.
6. D is the measurement test distance and emissions 1-18GHz were measured at a 3 meters test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
7. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
8. All supported modulation, antenna (including TxBF mode) and power schemes have been tested on the unit and only worst case configuration is reported.

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Sample Calculations

Determining Spurious Emissions Levels

- Field Strength Level [$\text{dB}_{\mu\text{V/m}}$] = Analyzer Level [dBm] + 107 + AFCL [dB/m]
- AFCL [dB/m] = Antenna Factor [dB/m] + Cable Loss [dB] – Preamplifier Gain [dB]
- Margin [dB] = Field Strength Level [$\text{dB}_{\mu\text{V/m}}$] – Limit [$\text{dB}_{\mu\text{V/m}}$]

Radiated Band Edge Measurement Offset

- The amplitude offset shown in the radiated restricted band edge plots in Section 7.7.1 was calculated using the formula:

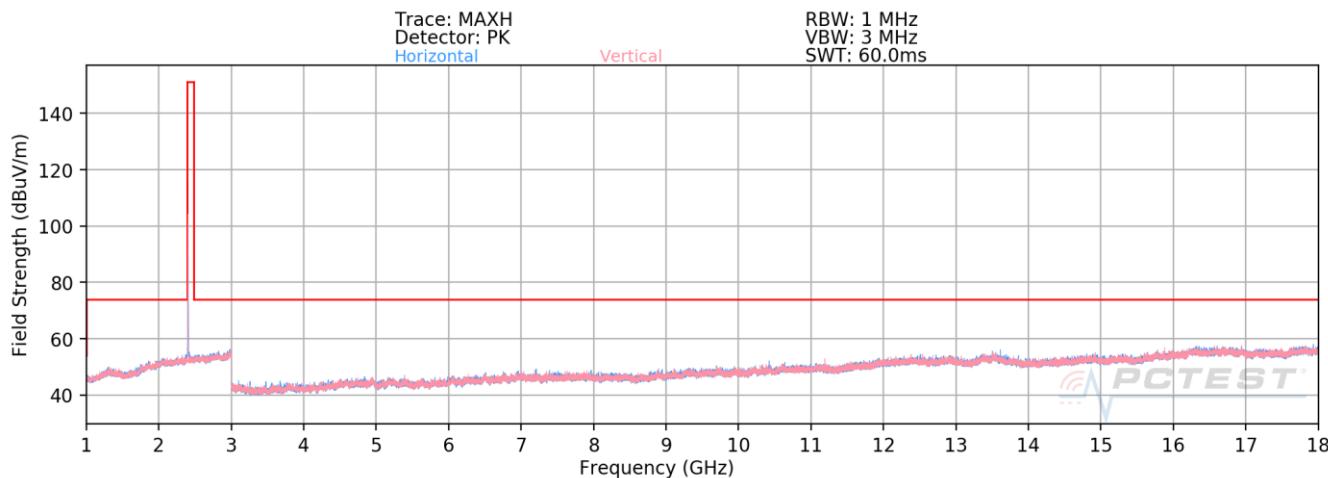
Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

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Radiated Spurious Emission Measurements (1 – 18GHz)

§15.205 §15.209 §15.247(d); RSS-Gen [8.9]

Antenna WF8



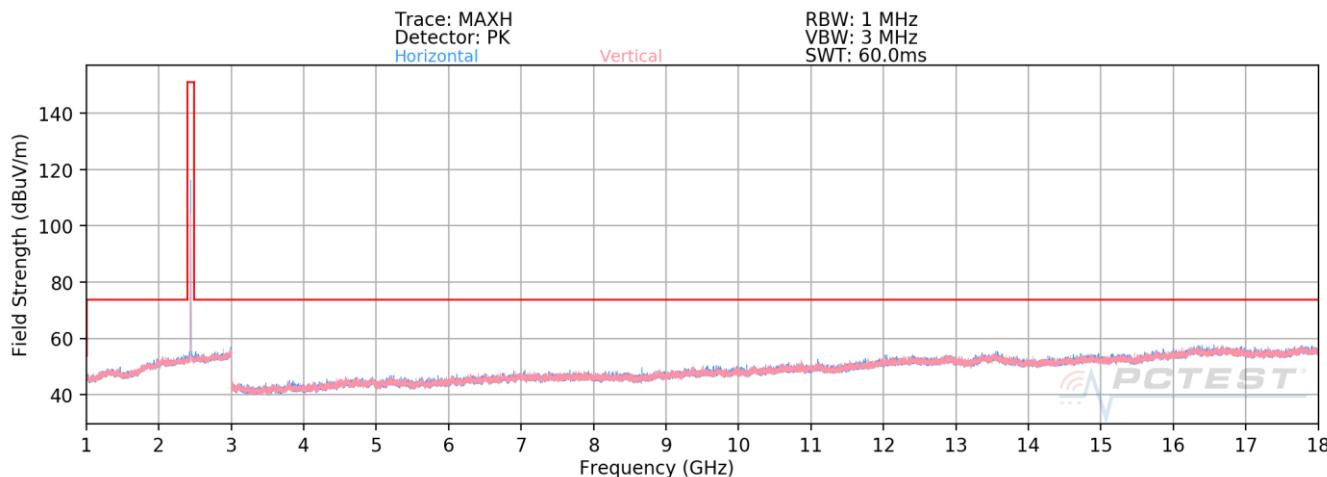
Plot 7-81. Radiated Spurious Emissions Above 1GHz Antenna WF8 (4Mbps, HDR4, ePA – Ch. 1)

Bluetooth Mode:	<u>HDR4</u>
Data Rate:	<u>4Mbps</u>
Power Scheme	<u>ePA</u>
Distance of Measurements:	<u>3 Meters</u>
Operating Frequency:	<u>2404MHz</u>
Channel:	<u>1</u>

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]
4808.00	Avg	V	-	-	-80.60	6.39	32.79	53.98	-21.19
4808.00	Peak	V	-	-	-69.36	6.39	44.03	73.98	-29.95
12020.00	Avg	V	-	-	-84.84	18.12	40.28	53.98	-13.70
12020.00	Peak	V	-	-	-73.63	18.12	51.49	73.98	-22.49

Table 7-14. Radiated Measurements Antenna WF8

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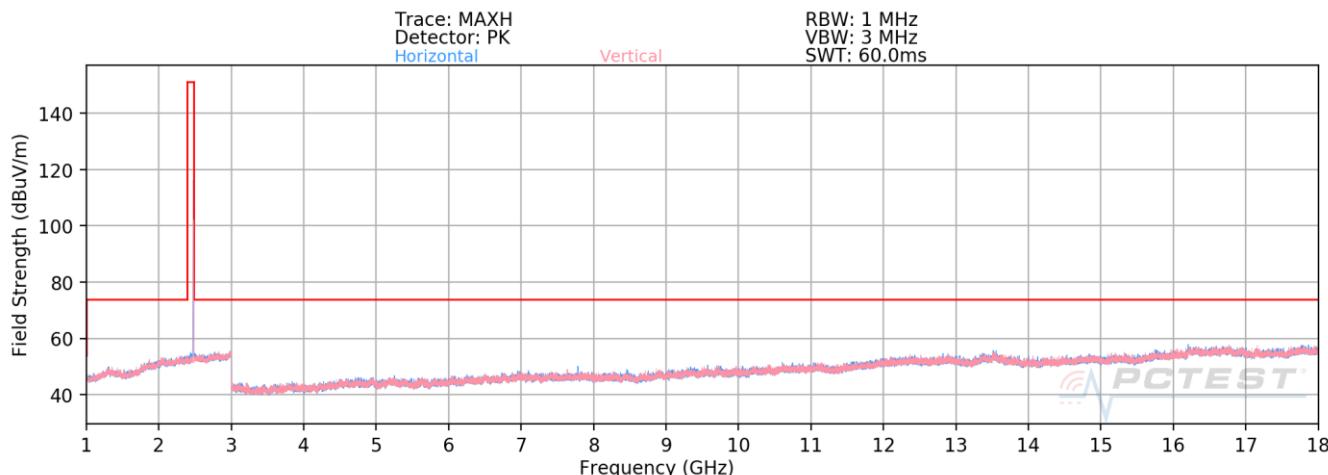
Plot 7-82. Radiated Spurious Emissions Above 1GHz Antenna WF8 (4Mbps, HDR4, ePA – Ch. 38)

Bluetooth Mode: HDR4
Data Rate: 4Mbps
Power Scheme ePA
Distance of Measurements: 3 Meters
Operating Frequency: 2441MHz
Channel: 38

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
4882.00	Avg	V	-	-	-80.84	6.98	33.14	53.98	-20.84
4882.00	Peak	V	-	-	-69.52	6.98	44.46	73.98	-29.52
7323.00	Avg	V	-	-	-81.37	10.38	36.01	53.98	-17.97
7323.00	Peak	V	-	-	-69.07	10.38	48.31	73.98	-25.67
12205.00	Avg	V	-	-	-84.69	17.66	39.97	53.98	-14.01
12205.00	Peak	V	-	-	-72.87	17.66	51.79	73.98	-22.19

Table 7-15. Radiated Measurements Antenna WF8

FCC ID: BCGA2588 IC: 579C-A2588	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
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Plot 7-83. Radiated Spurious Emissions Above 1GHz Antenna WF8 (4Mbps, HDR4, ePA – Ch. 73)

Bluetooth Mode: HDR4
Data Rate: 4Mbps
Power Scheme ePA
Distance of Measurements: 3 Meters
Operating Frequency: 2476MHz
Channel: 73

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
4952.00	Avg	V	-	-	-80.86	6.74	32.88	53.98	-21.10
4952.00	Peak	V	-	-	-69.52	6.74	44.22	73.98	-29.76
7428.00	Avg	V	-	-	-81.34	10.44	36.10	53.98	-17.88
7428.00	Peak	V	-	-	-70.17	10.44	47.27	73.98	-26.71
12380.00	Avg	V	-	-	-85.62	17.48	38.86	53.98	-15.12
12380.00	Peak	V	-	-	-74.23	17.48	50.25	73.98	-23.73

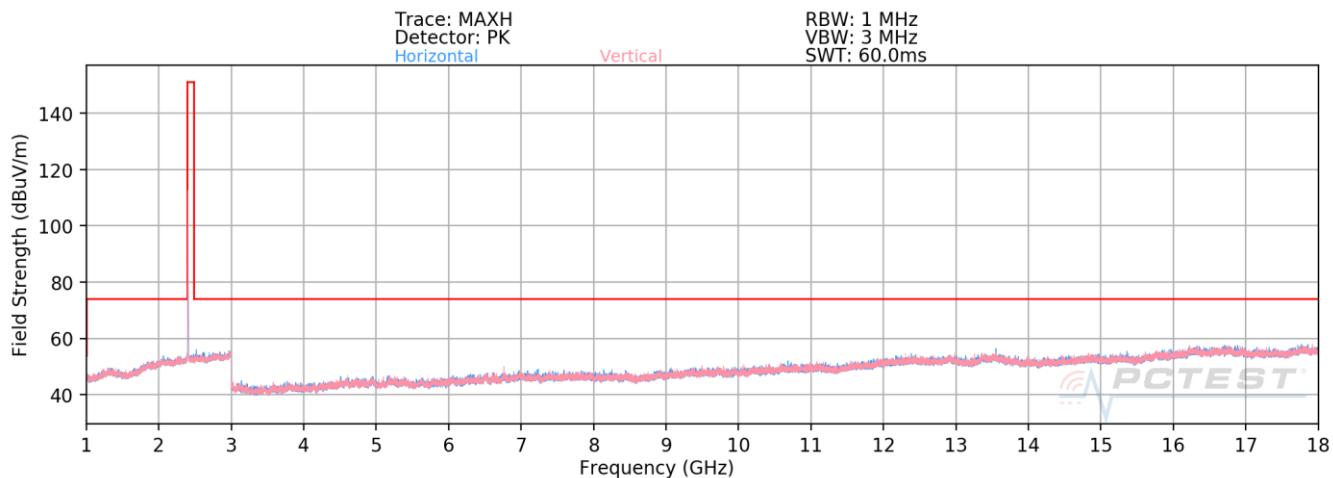
Table 7-16. Radiated Measurements Antenna WF8

FCC ID: BCGA2588 IC: 579C-A2588	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
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Radiated Spurious Emission Measurements (1 – 18GHz)

§15.205 §15.209 §15.247(d); RSS-Gen [8.9]

Antenna WF7b



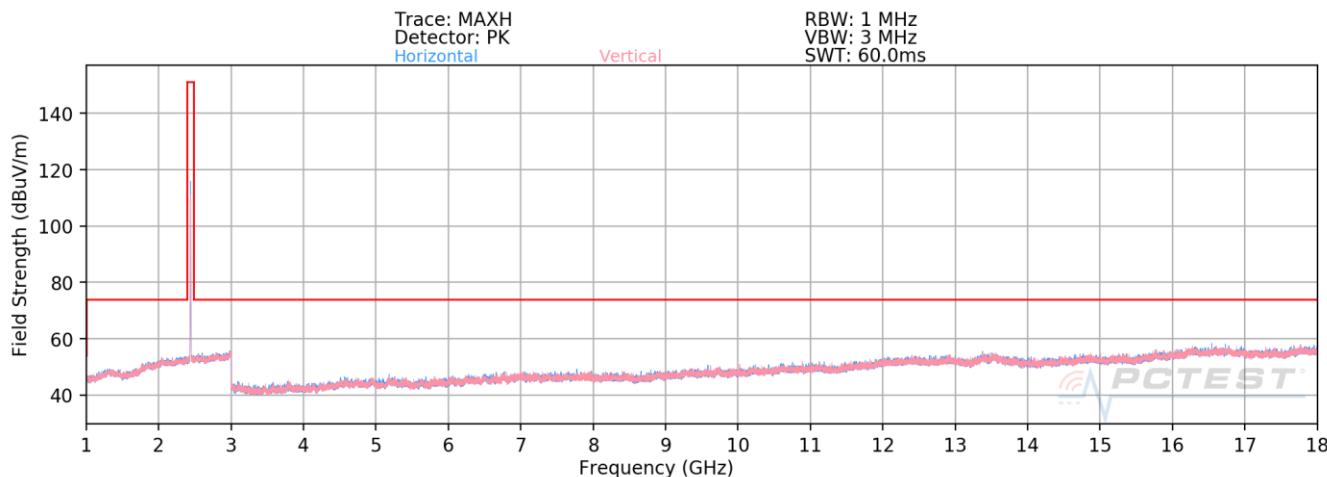
Plot 7-84. Radiated Spurious Emissions Above 1GHz Antenna WF7b (4Mbps, HDR4, ePA – Ch. 1)

Bluetooth Mode:	<u>HDR4</u>
Data Rate:	<u>4Mbps</u>
Power Scheme	<u>ePA</u>
Distance of Measurements:	<u>3 Meters</u>
Operating Frequency:	<u>2404MHz</u>
Channel:	<u>1</u>

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]
4808.00	Avg	V	-	-	-80.61	6.39	32.78	53.98	-21.20
4808.00	Peak	V	-	-	-69.36	6.39	44.03	73.98	-29.95
12020.00	Avg	V	-	-	-84.73	18.12	40.39	53.98	-13.59
12020.00	Peak	V	-	-	-73.48	18.12	51.64	73.98	-22.34

Table 7-17. Radiated Measurements Antenna WF7b

FCC ID: BCGA2588 IC: 579C-A2588	 PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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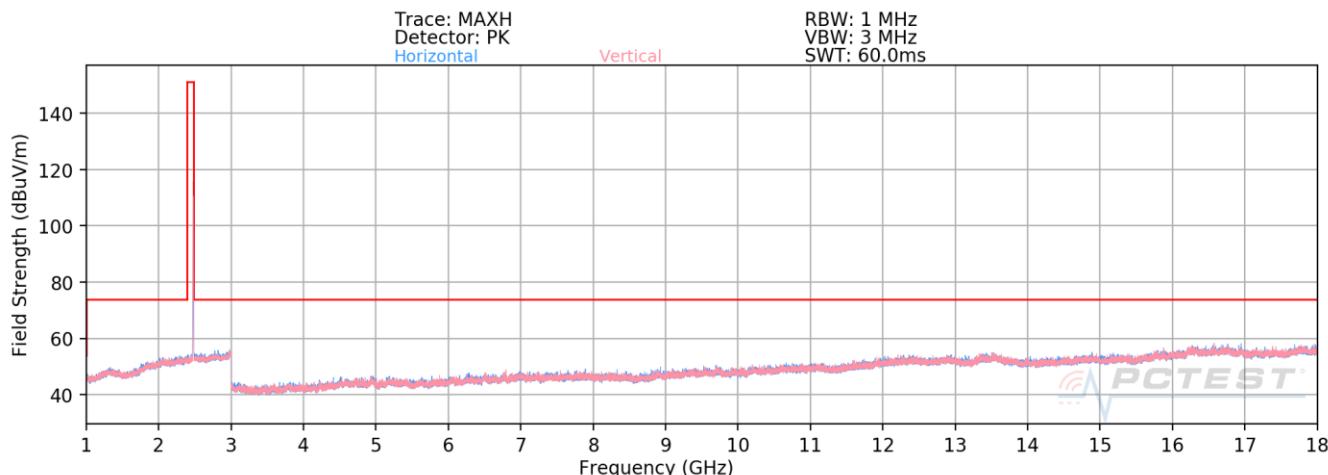
Plot 7-85. Radiated Spurious Emissions Above 1GHz Antenna WF7b (4Mbps, HDR4, ePA – Ch. 38)

Bluetooth Mode: HDR4
Data Rate: 4Mbps
Power Scheme ePA
Distance of Measurements: 3 Meters
Operating Frequency: 2441MHz
Channel: 38

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
4882.00	Avg	V	-	-	-80.86	6.98	33.12	53.98	-20.86
4882.00	Peak	V	-	-	-69.51	6.98	44.47	73.98	-29.51
7323.00	Avg	V	-	-	-81.37	10.38	36.01	53.98	-17.97
7323.00	Peak	V	-	-	-69.69	10.38	47.69	73.98	-26.29
12205.00	Avg	V	-	-	-84.57	17.66	40.09	53.98	-13.89
12205.00	Peak	V	-	-	-73.50	17.66	51.16	73.98	-22.82

Table 7-18. Radiated Measurements Antenna WF7b

FCC ID: BCGA2588 IC: 579C-A2588	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
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Plot 7-86. Radiated Spurious Emissions Above 1GHz Antenna WF7b (4Mbps, HDR4, ePA – Ch. 73)

Bluetooth Mode: HDR4
Data Rate: 4Mbps
Power Scheme ePA
Distance of Measurements: 3 Meters
Operating Frequency: 2476MHz
Channel: 73

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
4952.00	Avg	V	-	-	-80.85	6.74	32.89	53.98	-21.09
4952.00	Peak	V	-	-	-68.99	6.74	44.75	73.98	-29.23
7428.00	Avg	V	-	-	-81.58	10.44	35.86	53.98	-18.12
7428.00	Peak	V	-	-	-70.02	10.44	47.42	73.98	-26.56
12380.00	Avg	V	-	-	-85.41	17.48	39.07	53.98	-14.91
12380.00	Peak	V	-	-	-74.69	17.48	49.79	73.98	-24.19

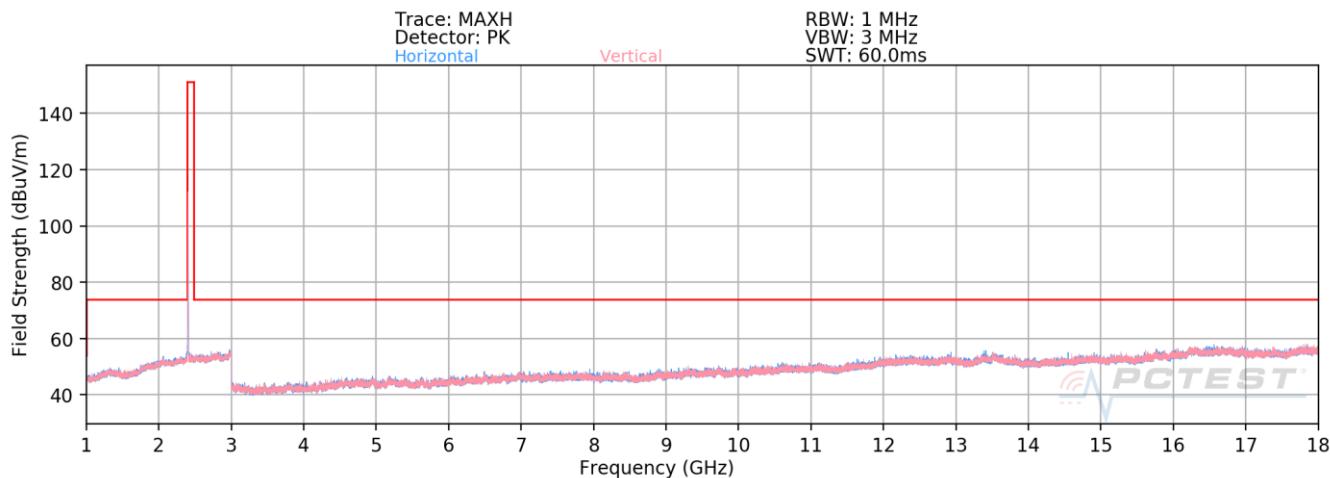
Table 7-19. Radiated Measurements Antenna WF7b

FCC ID: BCGA2588 IC: 579C-A2588	 PCTEST® Proud to be part of  MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1C2111150078-03.BCG	Test Dates: 12/02/2021-01/28/2022	EUT Type: Tablet Device	Page 79 of 104	

Radiated Spurious Emission Measurements (Above 1GHz)

§15.205 §15.209 §15.247(d); RSS-Gen [8.9]

TxBF



Plot 7-87. Radiated Spurious Emissions Above 1GHz TxBF (4Mbps, HDR4, ePA – Ch. 1)

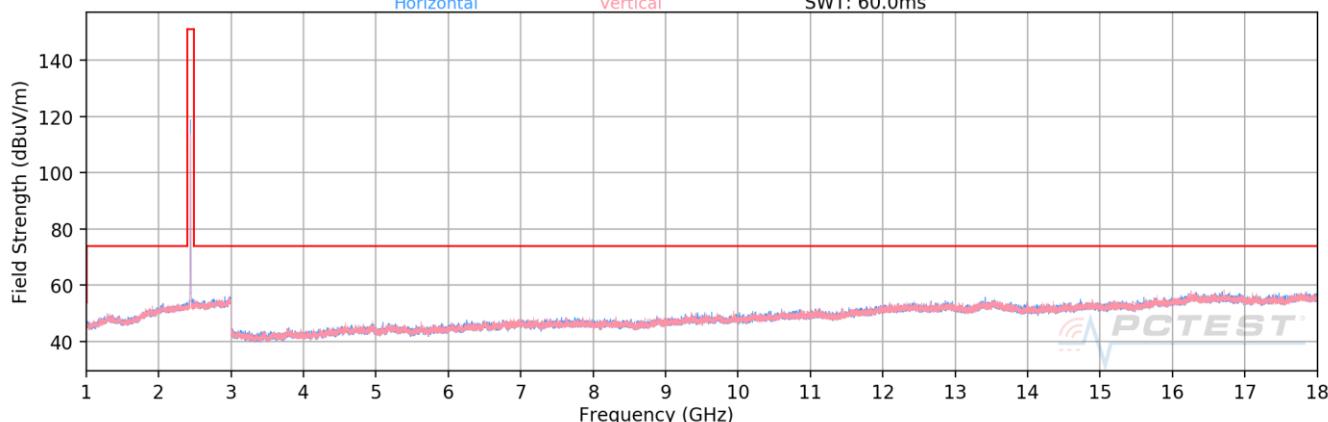
Bluetooth Mode:	HDR4
Data Rate:	4Mbps
Power Scheme	ePA
Distance of Measurements:	3 Meters
Operating Frequency:	2404MHz
Channel:	1

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]
4808.00	Avg	V	-	-	-80.31	6.39	33.08	53.98	-20.90
4808.00	Peak	V	-	-	-69.84	6.39	43.55	73.98	-30.43
12020.00	Avg	V	-	-	-84.61	18.12	40.51	53.98	-13.47
12020.00	Peak	V	-	-	-73.16	18.12	51.96	73.98	-22.02

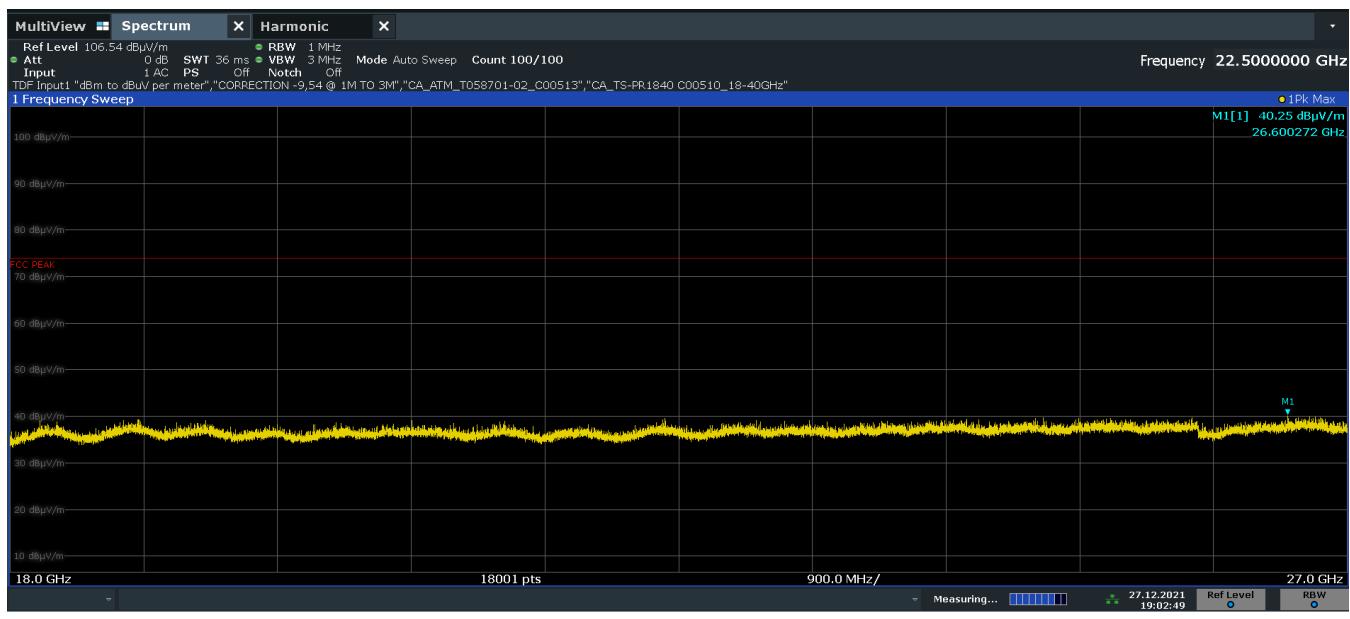
Table 7-20. Radiated Measurements TxBF

FCC ID: BCGA2588 IC: 579C-A2588	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1C211150078-03.BCG	Test Dates: 12/02/2021-01/28/2022	EUT Type: Tablet Device	Page 80 of 104	

Trace: MAXH
Detector: PK
Horizontal Vertical
RBW: 1 MHz
VBW: 3 MHz
SWT: 60.0ms

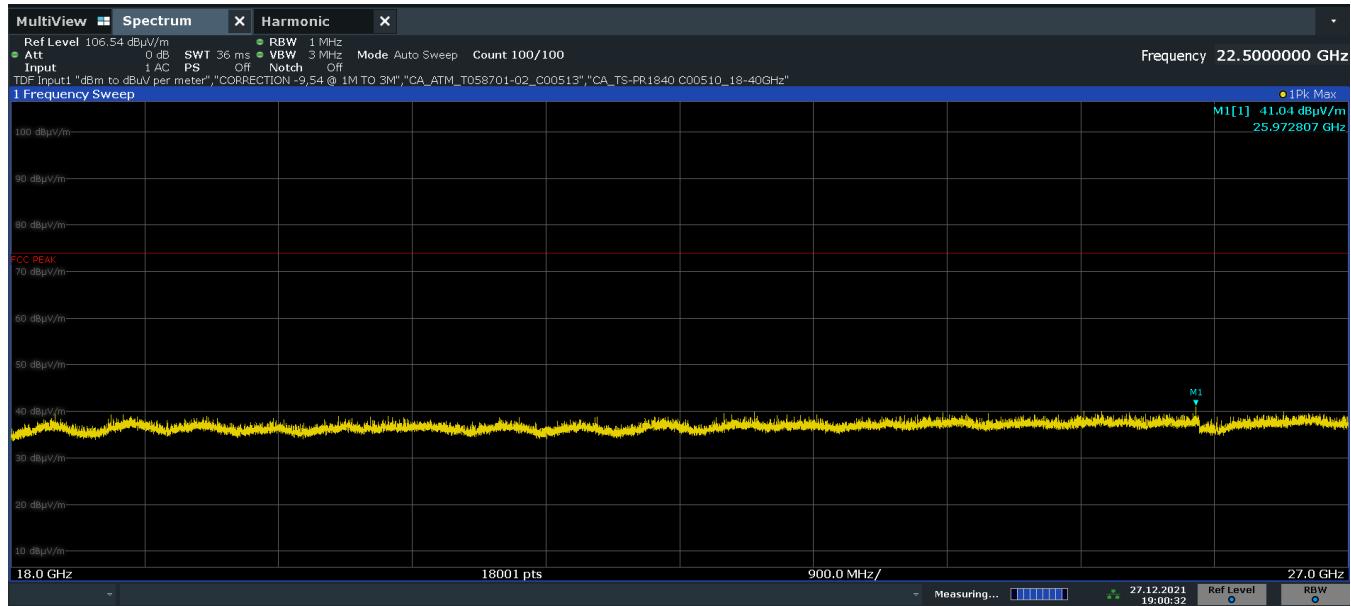


Plot 7-88. Radiated Spurious Emissions Above 1GHz TxBF (4Mbps, HDR4, ePA – Ch. 38)



Plot 7-89. Radiated Spurious Emissions Above 18GHz TxBF (4Mbps – Ch.38, ePA, Ant. Pol. H)

FCC ID: BCGA2588 IC: 579C-A2588	PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2111150078-03.BCG	Test Dates: 12/02/2021-01/28/2022	EUT Type: Tablet Device	Page 81 of 104



19:00:33 27.12.2021

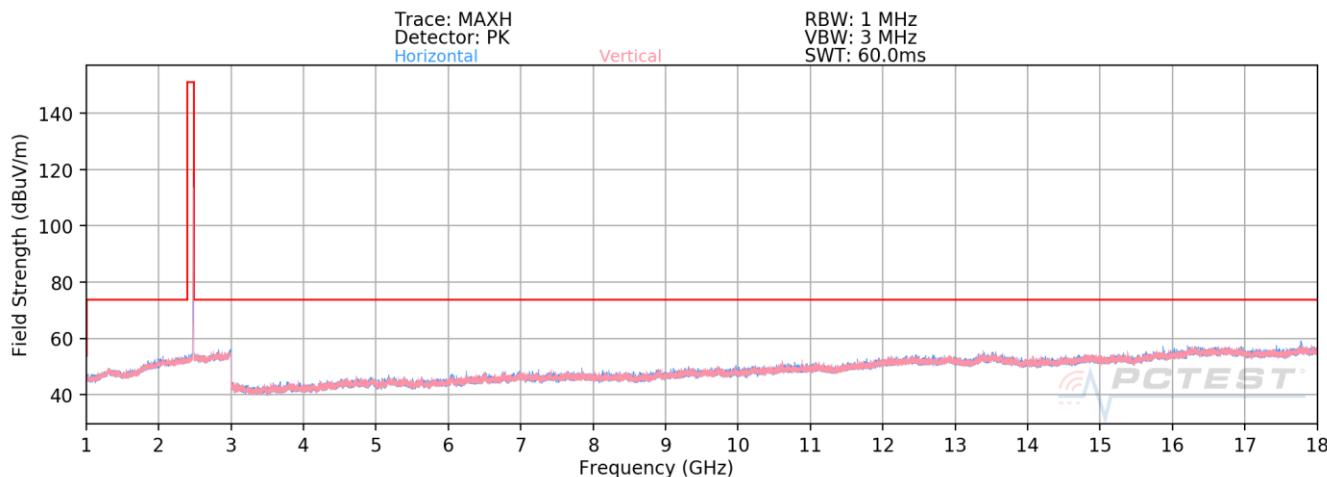
Plot 7-90. Radiated Spurious Emissions Above 18GHz TxBF (4Mbps – Ch.38, ePA, Ant. Pol. V)

Bluetooth Mode: HDR4
 Data Rate: 4Mbps
 Power Scheme ePA
 Distance of Measurements: 3 Meters
 Operating Frequency: 2441MHz
 Channel: 38

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
4882.00	Avg	V	-	-	-80.91	6.98	33.07	53.98	-20.91
4882.00	Peak	V	-	-	-69.90	6.98	44.08	73.98	-29.90
7323.00	Avg	V	257	222	-78.39	10.38	38.99	53.98	-14.99
7323.00	Peak	V	257	222	-68.47	10.38	48.91	73.98	-25.07
12205.00	Avg	V	-	-	-84.53	17.66	40.13	53.98	-13.85
12205.00	Peak	V	-	-	-72.57	17.66	52.09	73.98	-21.89

Table 7-21. Radiated Measurements TxBF

FCC ID: BCGA2588 IC: 579C-A2588	 PCTEST[®] Proud to be part of element			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C211150078-03.BCG	Test Dates: 12/02/2021-01/28/2022	EUT Type: Tablet Device			



Plot 7-91. Radiated Spurious Emissions Above 1GHz TxBF (4Mbps, HDR4, ePA – Ch. 73)

Bluetooth Mode: HDR4
Data Rate: 4Mbps
Power Scheme ePA
Distance of Measurements: 3 Meters
Operating Frequency: 2476MHz
Channel: 73

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
4952.00	Avg	V	-	-	-80.71	6.74	33.03	53.98	-20.95
4952.00	Peak	V	-	-	-69.14	6.74	44.60	73.98	-29.38
7428.00	Avg	V	258	199	-79.81	10.44	37.63	53.98	-16.35
7428.00	Peak	V	258	199	-69.50	10.44	47.94	73.98	-26.04
12380.00	Avg	V	-	-	-85.35	17.48	39.13	53.98	-14.85
12380.00	Peak	V	-	-	-73.75	17.48	50.73	73.98	-23.25

Table 7-22. Radiated Measurements TxBF

FCC ID: BCGA2588 IC: 579C-A2588	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1C2111150078-03.BCG	Test Dates: 12/02/2021-01/28/2022	EUT Type: Tablet Device	Page 83 of 104	

7.7.1 Radiated Restricted Band Edge Measurements

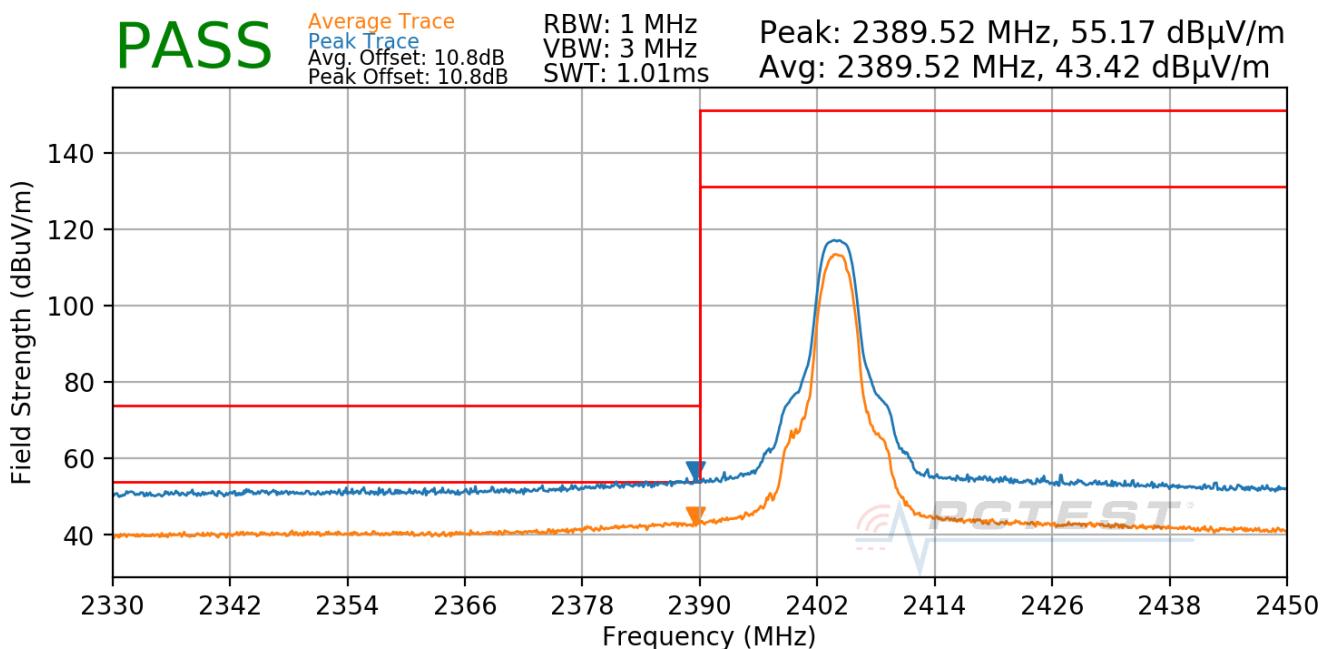
§15.205 §15.209; RSS-Gen [8.9]

Antenna WF8

The amplitude offset shown in the following plots for average measurements was calculated using the formula:

$$\text{Offset (dB)} = (\text{Antenna Factor} + \text{Cable Loss} + \text{Attenuator}) - \text{Preamplifier Gain}$$

Bluetooth Mode:	<u>HDR4</u>
Data Rate:	<u>4Mbps</u>
Power Scheme:	<u>ePA</u>
Measurement Distance:	<u>3 Meters</u>
Operating Frequency:	<u>2404MHz</u>
Channel:	<u>1</u>



Plot 7-92. Radiated Restricted Lower Band Edge Measurement Antenna WF8 (Average & Peak)

FCC ID: BCGA2588 IC: 579C-A2588	 PCTEST® Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2111150078-03.BCG	Test Dates: 12/02/2021-01/28/2022	EUT Type: Tablet Device		Page 84 of 104

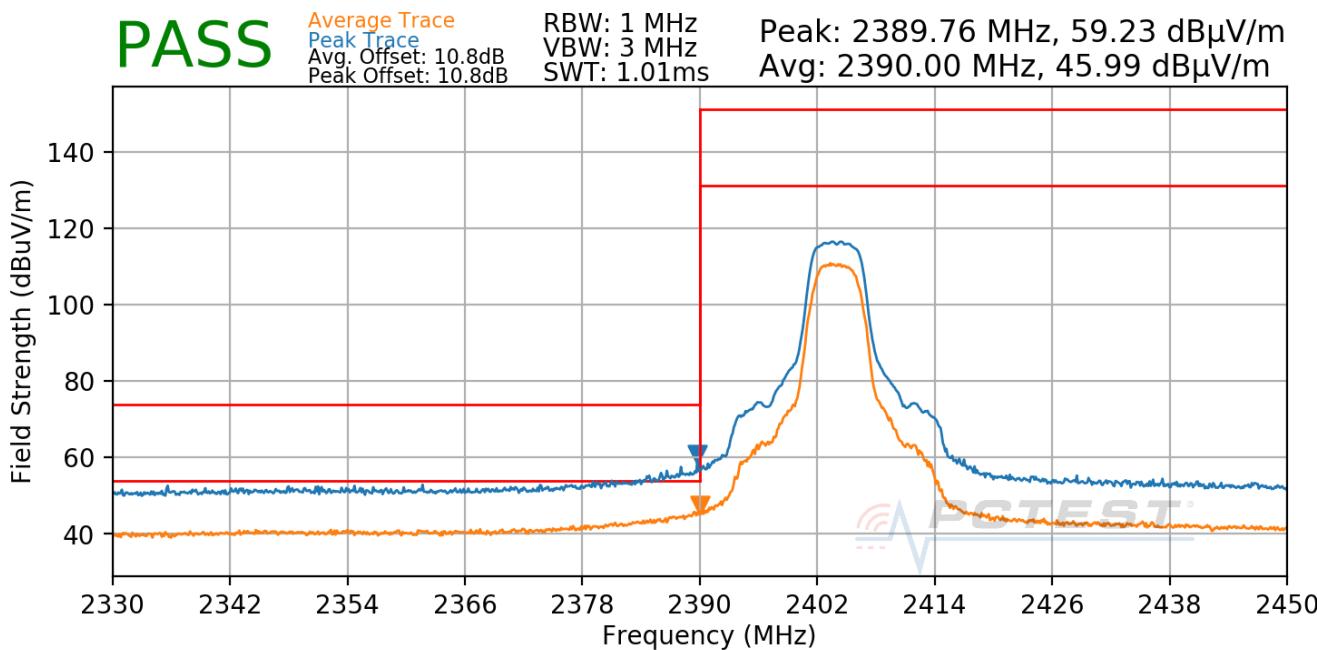
Radiated Restricted Band Edge Measurements

§15.205 §15.209; RSS-Gen [8.9]

The amplitude offset shown in the following plots for average measurements was calculated using the formula:

$$\text{Offset (dB)} = (\text{Antenna Factor} + \text{Cable Loss} + \text{Attenuator}) - \text{Preamplifier Gain}$$

Bluetooth Mode:	HDR8
Data Rate:	8Mbps
Power Scheme:	ePA
Measurement Distance:	3 Meters
Operating Frequency:	2404MHz
Channel:	1



Plot 7-93. Radiated Restricted Lower Band Edge Measurement Antenna WF8 (Average & Peak)

FCC ID: BCGA2588 IC: 579C-A2588	 PCTEST® Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2111150078-03.BCG	Test Dates: 12/02/2021-01/28/2022	EUT Type: Tablet Device	Page 85 of 104	

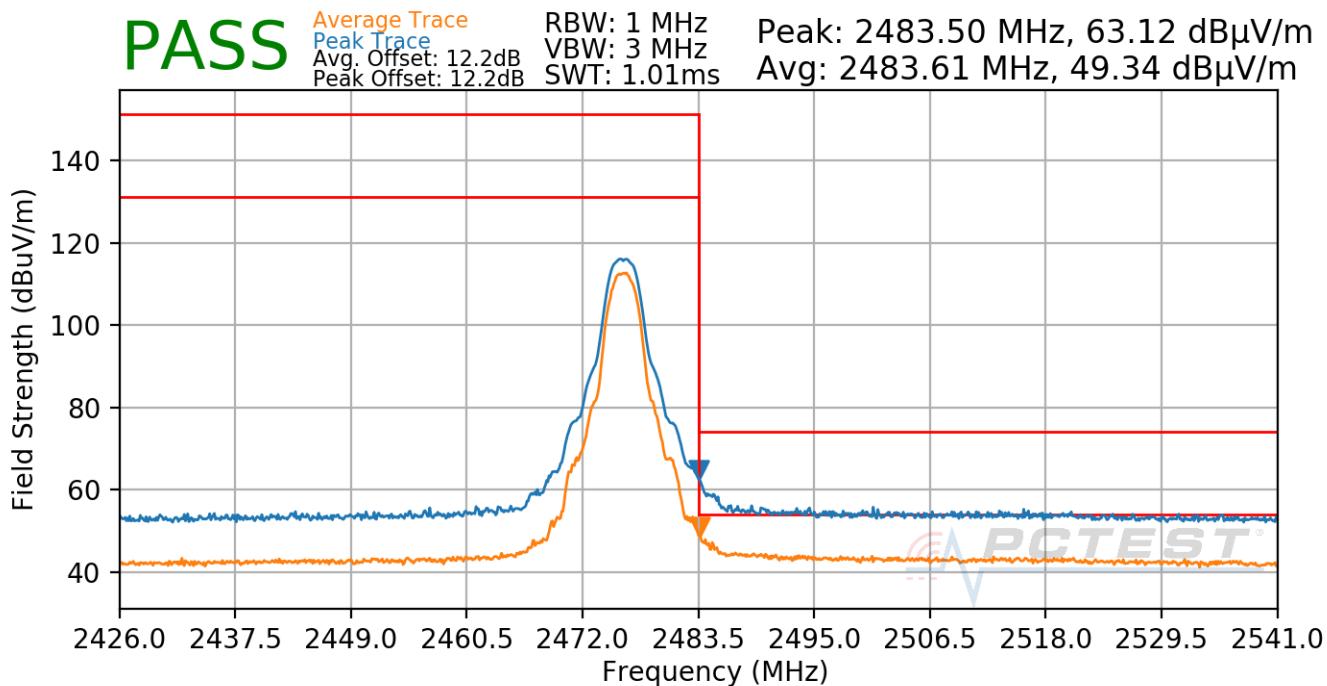
Radiated Restricted Band Edge Measurements

§15.205 §15.209; RSS-Gen [8.9]

The amplitude offset shown in the following plots for average measurements was calculated using the formula:

$$\text{Offset (dB)} = (\text{Antenna Factor} + \text{Cable Loss} + \text{Attenuator}) - \text{Preamplifier Gain}$$

Bluetooth Mode:	HDR4
Data Rate:	4Mbps
Power Scheme:	ePA
Measurement Distance:	3 Meters
Operating Frequency:	2476MHz
Channel:	73



Plot 7-94. Radiated Restricted Upper Band Edge Measurement Antenna WF8 (Average & Peak)

FCC ID: BCGA2588 IC: 579C-A2588	 PCTEST® Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2111150078-03.BCG	Test Dates: 12/02/2021-01/28/2022	EUT Type: Tablet Device	Page 86 of 104	

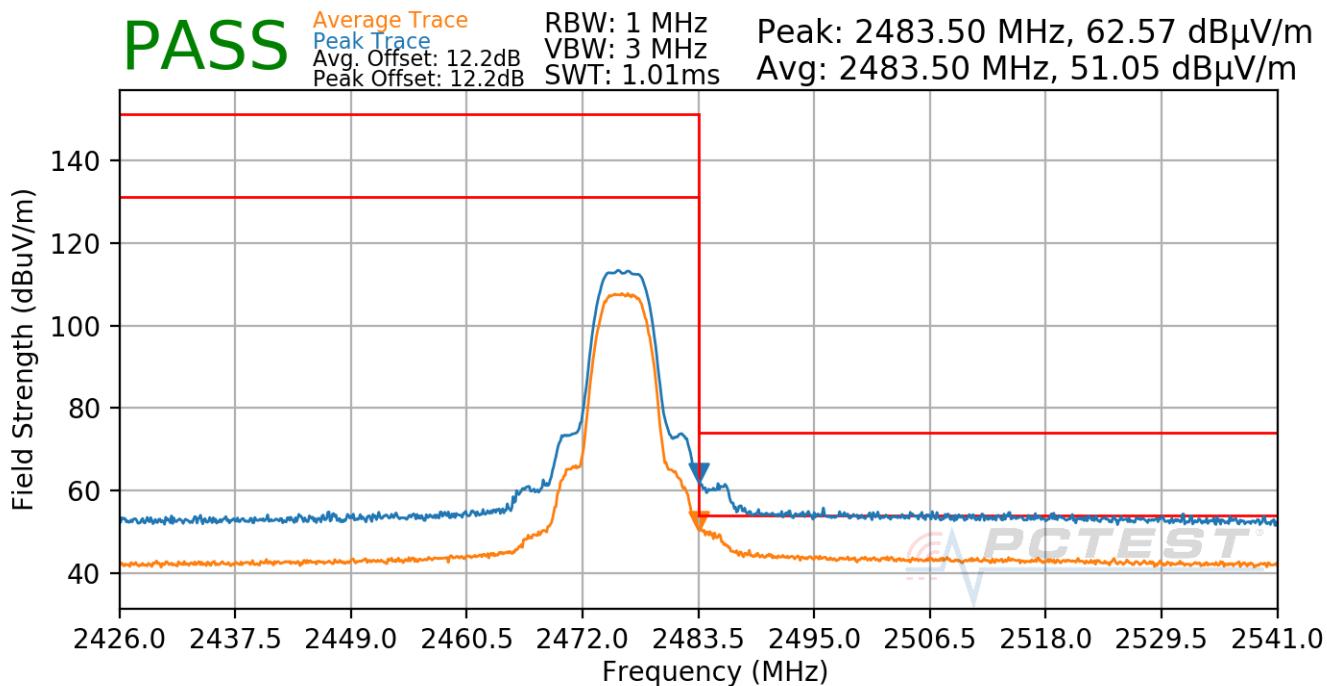
Radiated Restricted Band Edge Measurements

§15.205 §15.209; RSS-Gen [8.9]

The amplitude offset shown in the following plots for average measurements was calculated using the formula:

Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

Bluetooth Mode:	HDR8
Data Rate:	8Mbps
Power Scheme:	ePA
Measurement Distance:	3 Meters
Operating Frequency:	2476MHz
Channel:	73



Plot 7-95. Radiated Restricted Upper Band Edge Measurement Antenna WF8 (Average & Peak)

FCC ID: BCGA2588 IC: 579C-A2588	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2111150078-03.BCG	Test Dates: 12/02/2021-01/28/2022	EUT Type: Tablet Device	Page 87 of 104

Radiated Restricted Band Edge Measurements

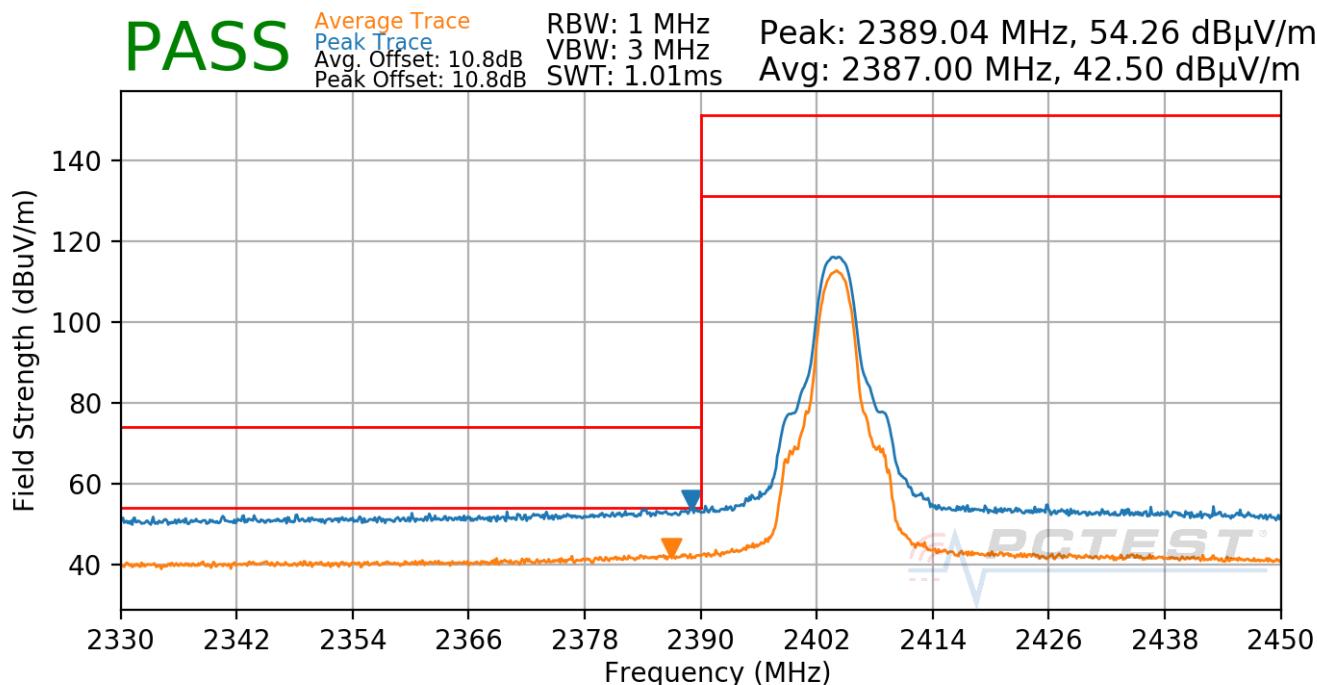
§15.205 §15.209; RSS-Gen [8.9]

Antenna WF7b

The amplitude offset shown in the following plots for average measurements was calculated using the formula:

$$\text{Offset (dB)} = (\text{Antenna Factor} + \text{Cable Loss} + \text{Attenuator}) - \text{Preamplifier Gain}$$

Bluetooth Mode:	<u>HDR4</u>
Data Rate:	<u>4Mbps</u>
Power Scheme:	<u>ePA</u>
Measurement Distance:	<u>3 Meters</u>
Operating Frequency:	<u>2404MHz</u>
Channel:	<u>1</u>



Plot 7-96. Radiated Restricted Lower Band Edge Measurement Antenna WF7b (Average & Peak)

FCC ID: BCGA2588 IC: 579C-A2588	 PCTEST® Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2111150078-03.BCG	Test Dates: 12/02/2021-01/28/2022	EUT Type: Tablet Device	Page 88 of 104	

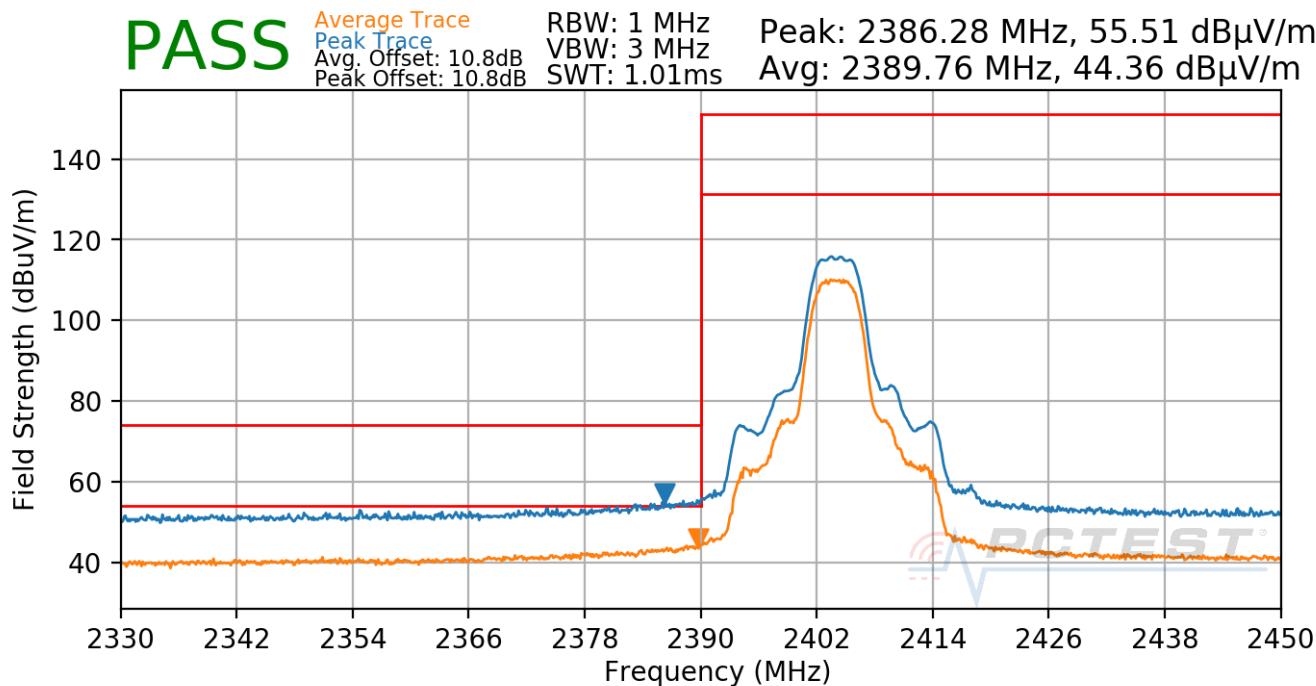
Radiated Restricted Band Edge Measurements

§15.205 §15.209; RSS-Gen [8.9]

The amplitude offset shown in the following plots for average measurements was calculated using the formula:

$$\text{Offset (dB)} = (\text{Antenna Factor} + \text{Cable Loss} + \text{Attenuator}) - \text{Preamplifier Gain}$$

Bluetooth Mode:	HDR8
Data Rate:	8Mbps
Power Scheme:	ePA
Measurement Distance:	3 Meters
Operating Frequency:	2404MHz
Channel:	1



Plot 7-97. Radiated Restricted Lower Band Edge Measurement Antenna WF7b (Average & Peak)

FCC ID: BCGA2588 IC: 579C-A2588	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2111150078-03.BCG	Test Dates: 12/02/2021-01/28/2022	EUT Type: Tablet Device	Page 89 of 104

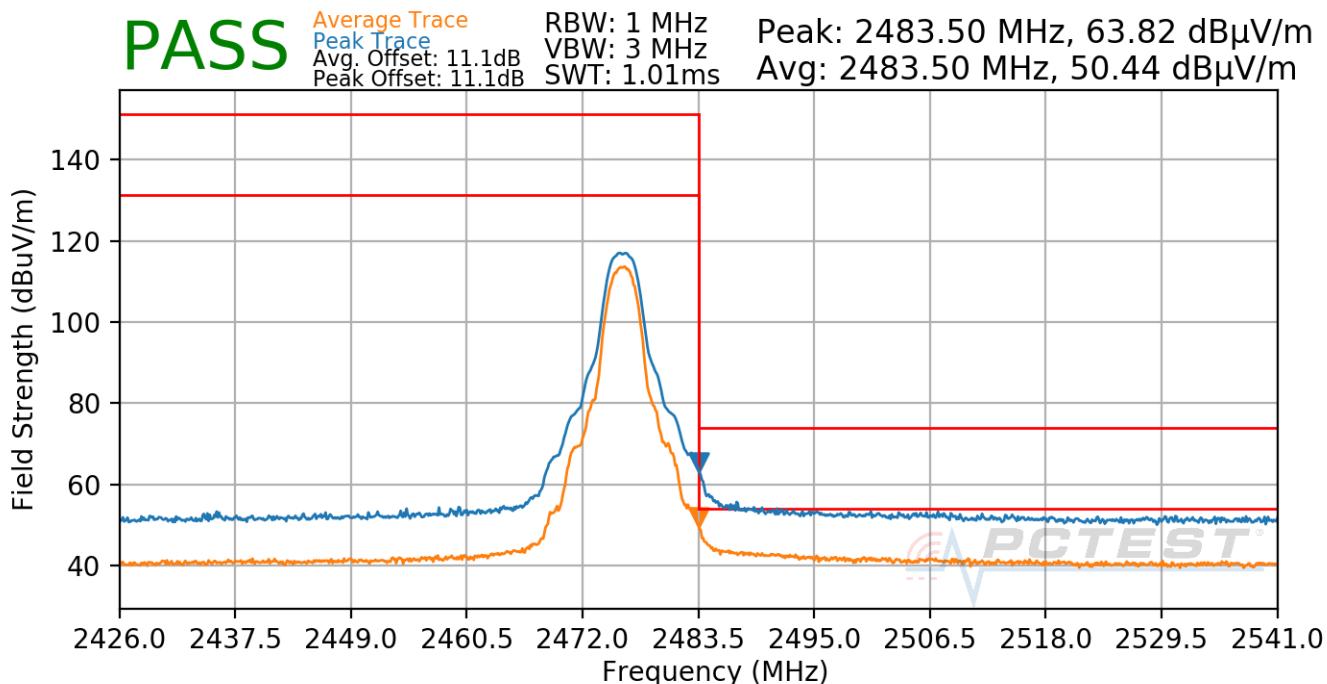
Radiated Restricted Band Edge Measurements

§15.205 §15.209; RSS-Gen [8.9]

The amplitude offset shown in the following plots for average measurements was calculated using the formula:

$$\text{Offset (dB)} = (\text{Antenna Factor} + \text{Cable Loss} + \text{Attenuator}) - \text{Preamplifier Gain}$$

Bluetooth Mode:	<u>HDR4</u>
Data Rate:	<u>4Mbps</u>
Power Scheme:	<u>ePA</u>
Measurement Distance:	<u>3 Meters</u>
Operating Frequency:	<u>2476MHz</u>
Channel:	<u>73</u>



Plot 7-98. Radiated Restricted Upper Band Edge Measurement Antenna WF7b (Average & Peak)

FCC ID: BCGA2588 IC: 579C-A2588	 PCTEST® Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2111150078-03.BCG	Test Dates: 12/02/2021-01/28/2022	EUT Type: Tablet Device		Page 90 of 104

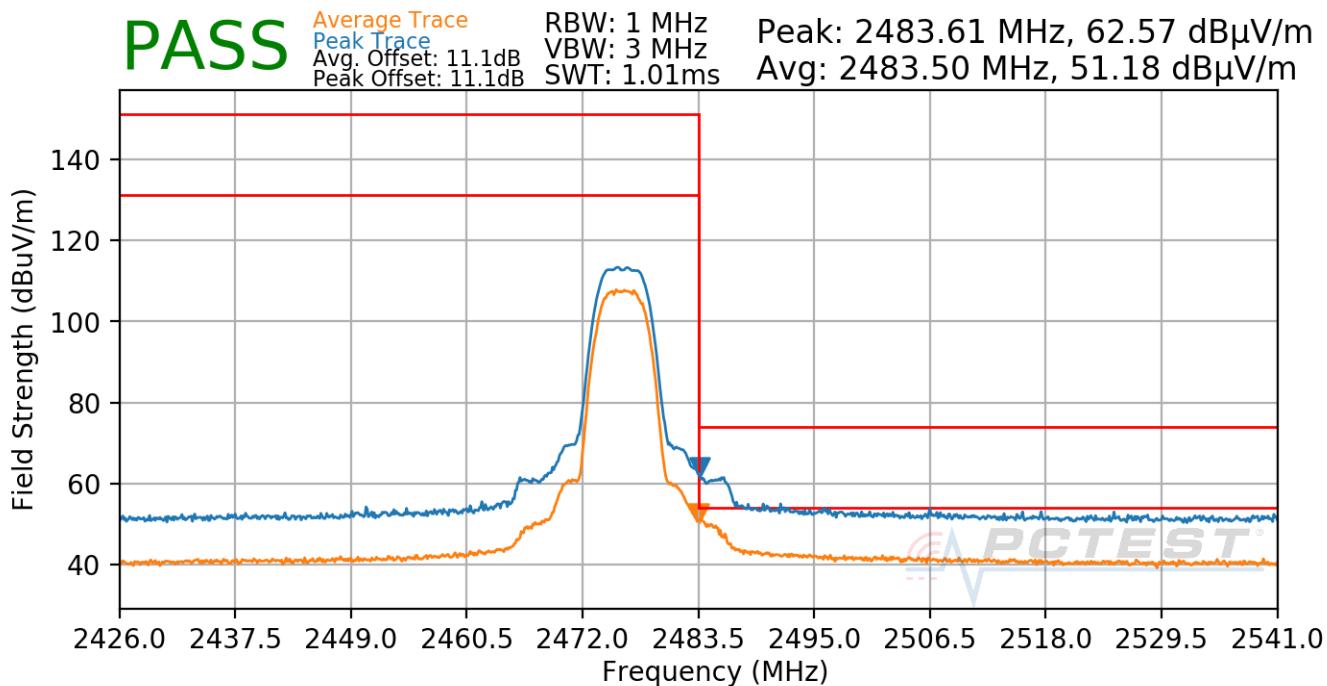
Radiated Restricted Band Edge Measurements

§15.205 §15.209; RSS-Gen [8.9]

The amplitude offset shown in the following plots for average measurements was calculated using the formula:

$$\text{Offset (dB)} = (\text{Antenna Factor} + \text{Cable Loss} + \text{Attenuator}) - \text{Preamplifier Gain}$$

Bluetooth Mode:	HDR8
Data Rate:	8Mbps
Power Scheme:	ePA
Measurement Distance:	3 Meters
Operating Frequency:	2476MHz
Channel:	73



Plot 7-99. Radiated Restricted Upper Band Edge Measurement Antenna WF7b (Average & Peak)

FCC ID: BCGA2588 IC: 579C-A2588	 PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2111150078-03.BCG	Test Dates: 12/02/2021-01/28/2022	EUT Type: Tablet Device	Page 91 of 104

Radiated Restricted Band Edge Measurements

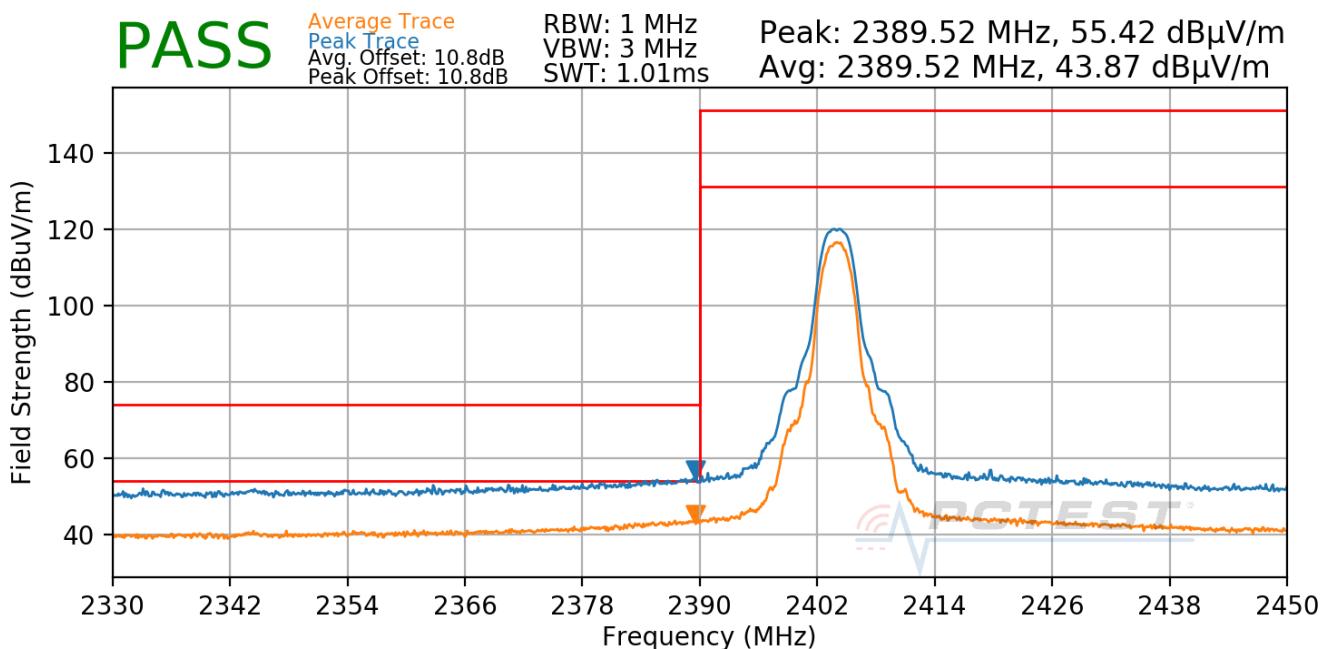
§15.205 §15.209; RSS-Gen [8.9]

TxBF

The amplitude offset shown in the following plots for average measurements was calculated using the formula:

$$\text{Offset (dB)} = (\text{Antenna Factor} + \text{Cable Loss} + \text{Attenuator}) - \text{Preamplifier Gain}$$

Bluetooth Mode:	<u>HDR4</u>
Data Rate:	<u>4Mbps</u>
Power Scheme:	<u>ePA</u>
Measurement Distance:	<u>3 Meters</u>
Operating Frequency:	<u>2404MHz</u>
Channel:	<u>1</u>



Plot 7-100. Radiated Restricted Lower Band Edge Measurement TxBF (Average & Peak)

FCC ID: BCGA2588 IC: 579C-A2588	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2111150078-03.BCG	Test Dates: 12/02/2021-01/28/2022	EUT Type: Tablet Device	Page 92 of 104

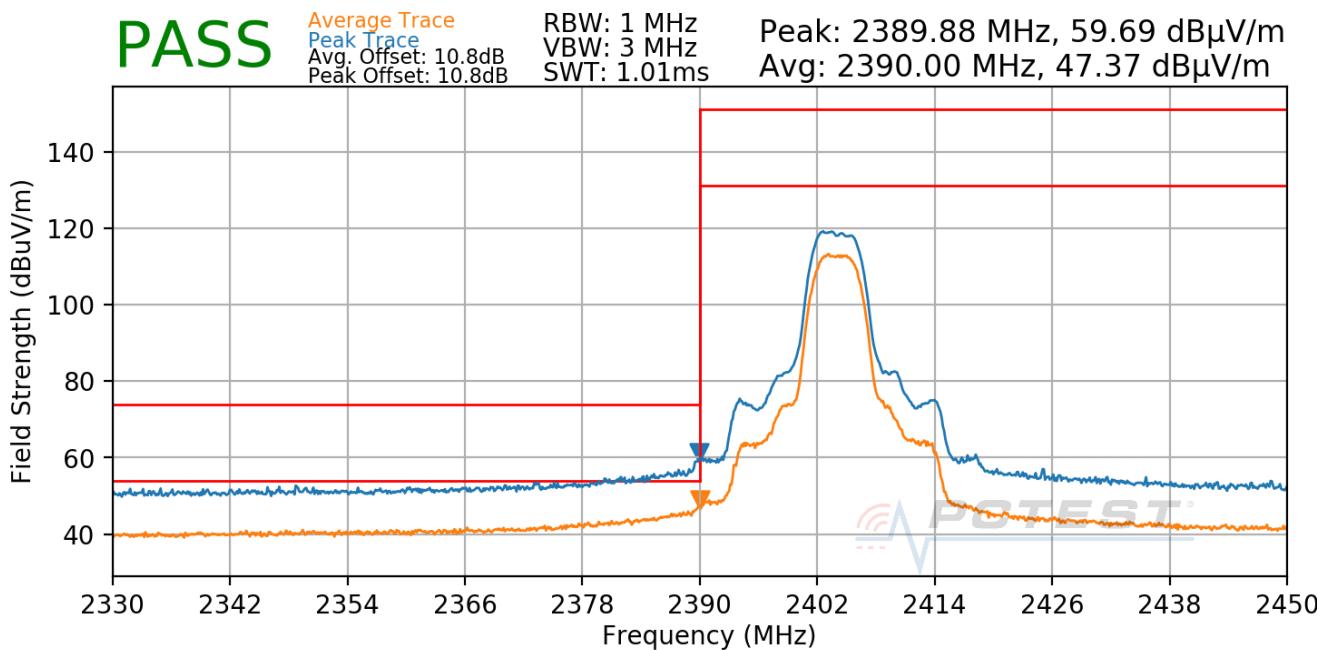
Radiated Restricted Band Edge Measurements

§15.205 §15.209; RSS-Gen [8.9]

The amplitude offset shown in the following plots for average measurements was calculated using the formula:

$$\text{Offset (dB)} = (\text{Antenna Factor} + \text{Cable Loss} + \text{Attenuator}) - \text{Preamplifier Gain}$$

Bluetooth Mode:	HDR8
Data Rate:	8Mbps
Power Scheme:	ePA
Measurement Distance:	3 Meters
Operating Frequency:	2404MHz
Channel:	1



Plot 7-101. Radiated Restricted Lower Band Edge Measurement TxBF (Average & Peak)

FCC ID: BCGA2588 IC: 579C-A2588	 PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2111150078-03.BCG	Test Dates: 12/02/2021-01/28/2022	EUT Type: Tablet Device	Page 93 of 104	

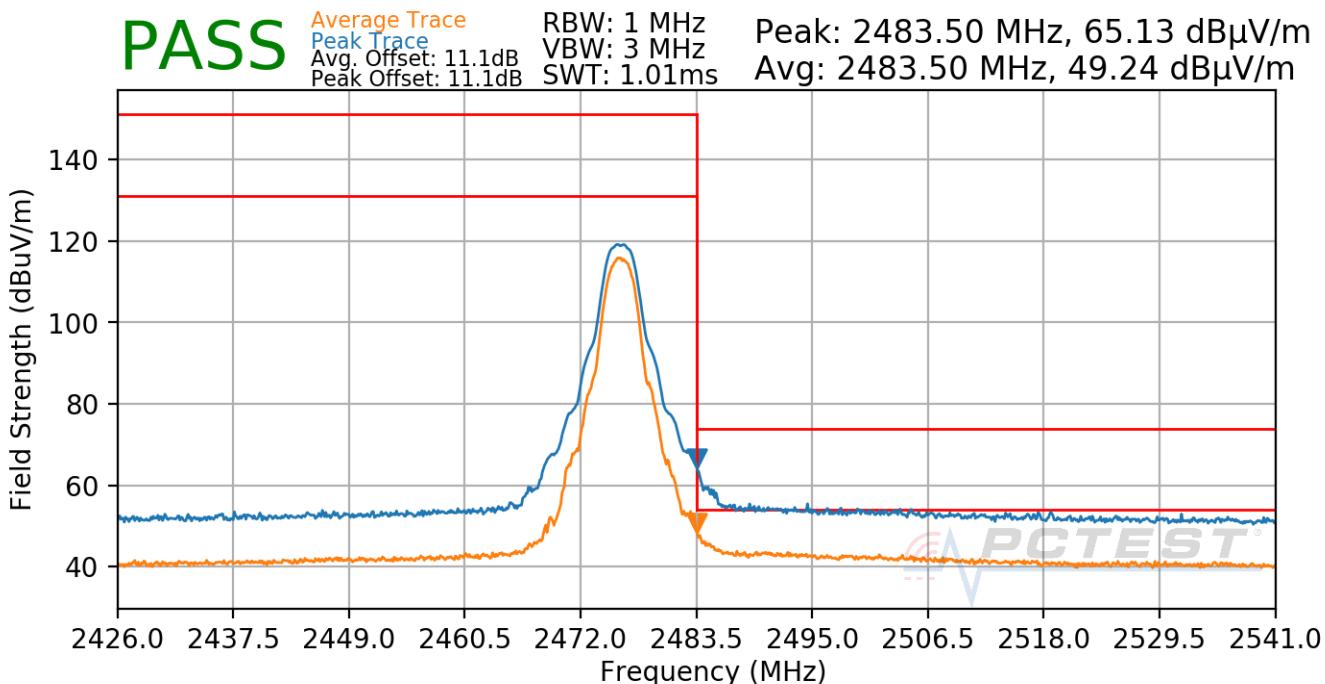
Radiated Restricted Band Edge Measurements

§15.205 §15.209; RSS-Gen [8.9]

The amplitude offset shown in the following plots for average measurements was calculated using the formula:

Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

Bluetooth Mode:	HDR4
Data Rate:	4Mbps
Power Scheme:	ePA
Measurement Distance:	3 Meters
Operating Frequency:	2476MHz
Channel:	73



Plot 7-102. Radiated Restricted Upper Band Edge Measurement TxBF (Average & Peak)

FCC ID: BCGA2588 IC: 579C-A2588	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2111150078-03.BCG	Test Dates: 12/02/2021-01/28/2022	EUT Type: Tablet Device	Page 94 of 104

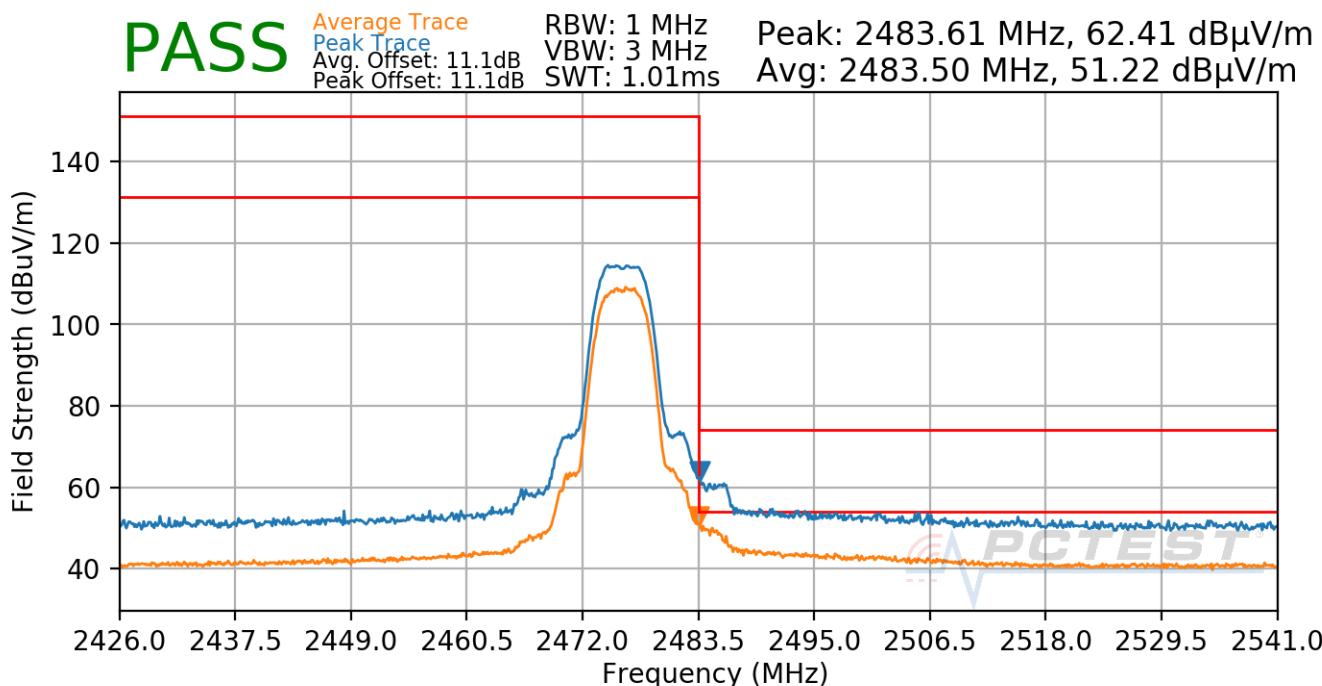
Radiated Restricted Band Edge Measurements

§15.205 §15.209; RSS-Gen [8.9]

The amplitude offset shown in the following plots for average measurements was calculated using the formula:

Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

Bluetooth Mode:	HDR8
Data Rate:	8Mbps
Power Scheme:	ePA
Measurement Distance:	3 Meters
Operating Frequency:	2476MHz
Channel:	73



Plot 7-103. Radiated Restricted Upper Band Edge Measurement TxBF (Average & Peak)

FCC ID: BCGA2588 IC: 579C-A2588	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2111150078-03.BCG	Test Dates: 12/02/2021-01/28/2022	EUT Type: Tablet Device	Page 95 of 104

7.8 Radiated Spurious Emissions – Below 1GHz

§15.209; RSS-Gen [8.9]

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 7 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-23 per Section 15.209 and RSS-Gen (8.9).

Frequency	Field Strength [μ V/m]	Measured Distance [Meters]
0.009 – 0.490 MHz	2400/F (kHz)	300
0.490 – 1.705 MHz	24000/F (kHz)	30
1.705 – 30.00 MHz	30	30
30.00 – 88.00 MHz	100	3
88.00 – 216.0 MHz	150	3
216.0 – 960.0 MHz	200	3
Above 960.0 MHz	500	3

Table 7-23. Radiated Limits

Test Procedures Used

ANSI C63.10-2013

Test Settings

Quasi-Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 120kHz (for emissions from 30MHz – 1GHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 120kHz (for emissions from 30MHz – 1GHz)
3. VBW = 300kHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

FCC ID: BCGA2588 IC: 579C-A2588	 PCTEST® <small>Proud to be part of element</small>		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2111150078-03.BCG	Test Dates: 12/02/2021-01/28/2022	EUT Type: Tablet Device		Page 96 of 104

Test Setup

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

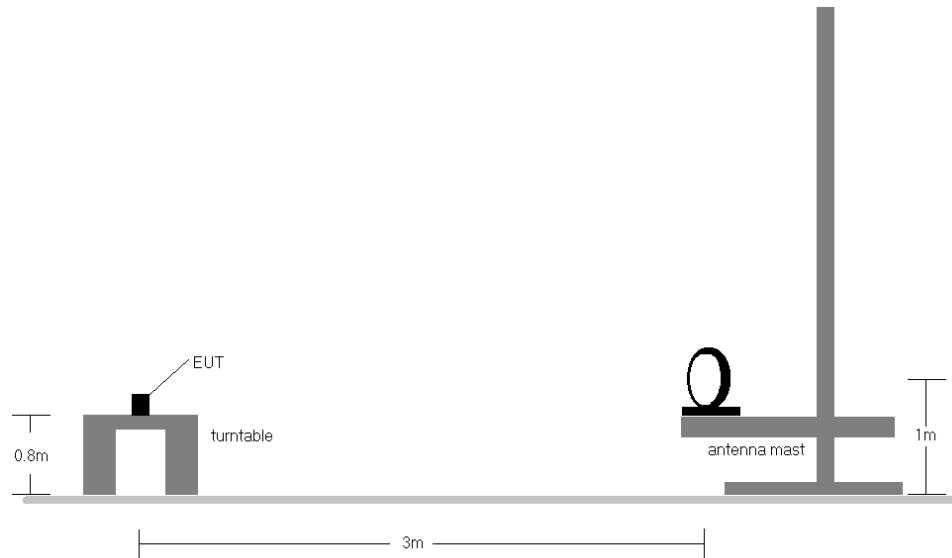


Figure 7-7. Radiated Test Setup < 30MHz

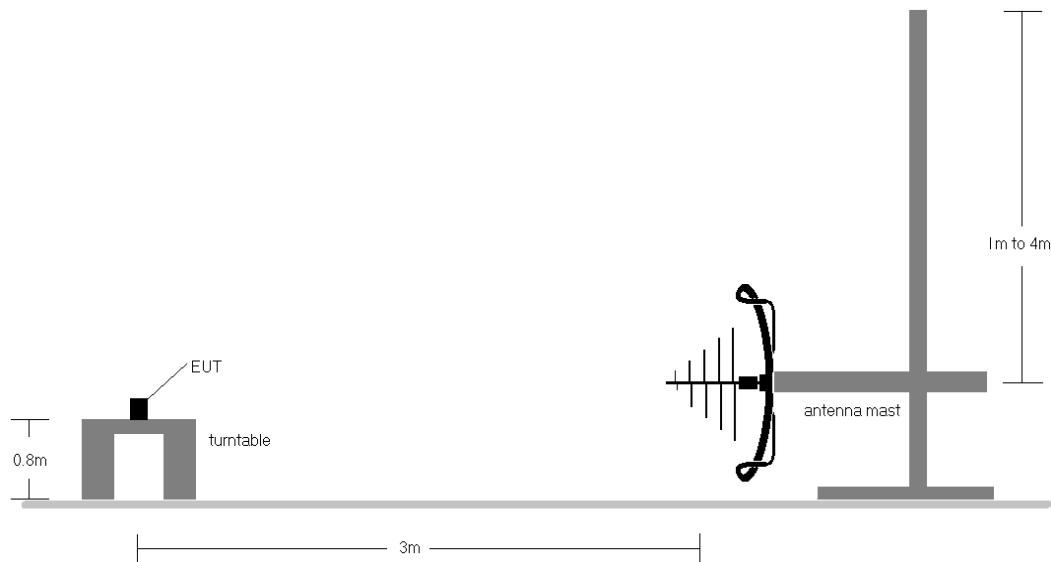


Figure 7-8. Radiated Test Setup < 1GHz

FCC ID: BCGA2588 IC: 579C-A2588	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Test Notes

1. All emissions lying in restricted bands specified in §15.205 and RSS-Gen(8.10) are below the limit shown in Table 7-23.
2. The broadband receive antenna is manipulated through vertical and horizontal polarizations during the tests. The EUT is manipulated through three orthogonal planes. For below 30MHz the loop antenna was positioned in 3 orthogonal planes (X front, Y side, Z top) to determine the orientation resulting in the worst case emissions.
3. This unit was tested with its standard battery.
4. The spectrum is investigated using a peak detector and final measurements are recorded using CISPR quasi peak detector on emissions that were within 6dB of the limit.
5. Emissions were measured at a 3 meter test distance.
6. Emissions are investigated while operating on the center channel of the mode, band, and modulation that produced the worst case results during the transmitter spurious emissions testing.
7. No spurious emissions were detected within 20dB of the limit below 30MHz.
8. The results recorded using the broadband antenna is known to correlate with the results obtained by using a tuned dipole with an acceptable degree of accuracy. The VSWR for the measurement antenna was found to be less than 2:1.
9. All supported modulation, antenna (including TxBF mode) and power schemes have been tested on the unit and only worst case configuration is reported.
10. Both configurations below were investigated, and the worst case has been reported.
 - a. EUT powered by AC/DC adaptor via USB-C cable with wire charger
 - b. EUT powered by host PC via USB-C cable with wire charger

Sample Calculations

Determining Spurious Emissions Levels

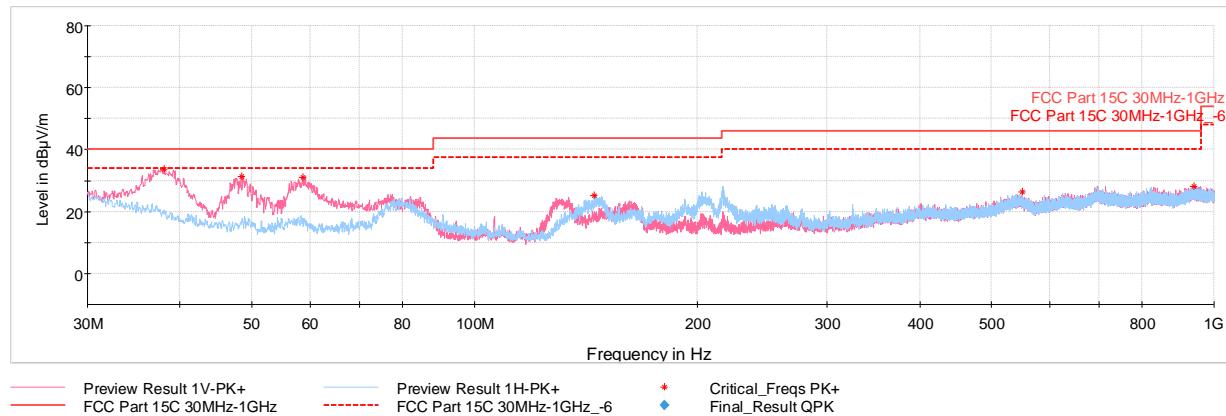
- Field Strength Level $[\text{dB}_{\mu\text{V/m}}]$ = Analyzer Level $[\text{dBm}]$ + 107 + AFCL $[\text{dB/m}]$
- AFCL $[\text{dB/m}]$ = Antenna Factor $[\text{dB/m}]$ + Cable Loss $[\text{dB}]$ – Preamplifier Gain $[\text{dB}]$
- Margin $[\text{dB}]$ = Field Strength Level $[\text{dB}_{\mu\text{V/m}}]$ – Limit $[\text{dB}_{\mu\text{V/m}}]$

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Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209; RSS-Gen [8.9]

TxBF



Plot 7-104. Radiated Spurious Emissions Below 1GHz TxBF (4Mbps, ePA – Ch.38 with AC/DC Adapter)

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Limit [dBμV/m]	Margin [dB]
38.05	Max Peak	V	100	222	-57.65	-15.71	40.00	-6.36
48.43	Max Peak	V	100	15	-55.48	-20.25	40.00	-8.73
58.62	Max Peak	V	200	195	-54.63	-21.25	40.00	-8.88
145.24	Max Peak	H	200	86	-64.24	-17.54	43.52	-18.30
550.70	Max Peak	V	100	168	-76.79	-3.78	46.02	-19.59
939.28	Max Peak	H	100	22	-79.15	0.13	46.02	-18.04

Table 7-24. Radiated Spurious Emissions Below 1GHz TxBF (4Mbps, ePA – Ch.38 with AC/DC Adapter)

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7.9 AC Line-Conducted Emissions Measurement

§15.207; RSS-Gen [8.8]

Test Overview and Limit

All AC line conducted spurious emissions are measured with a receiver connected to a grounded LISN while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for AC Line conducted spurious emissions. Only the conducted emissions of the configuration that produced the worst case emissions are reported in this section.

All conducted emissions must not exceed the limits shown in the table below, per Section 15.207 and RSS-Gen (8.8).

Frequency of emission (MHz)	Conducted Limit (dB μ V)	
	Quasi-peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 – 30	60	50

Table 7-25. Conducted Limits

*Decreases with the logarithm of the frequency.

Test Procedures Used

ANSI C63.10-2013 – Subclause 6.2

Test Settings

Quasi-Peak Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

Average Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = RMS
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

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Test Setup

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

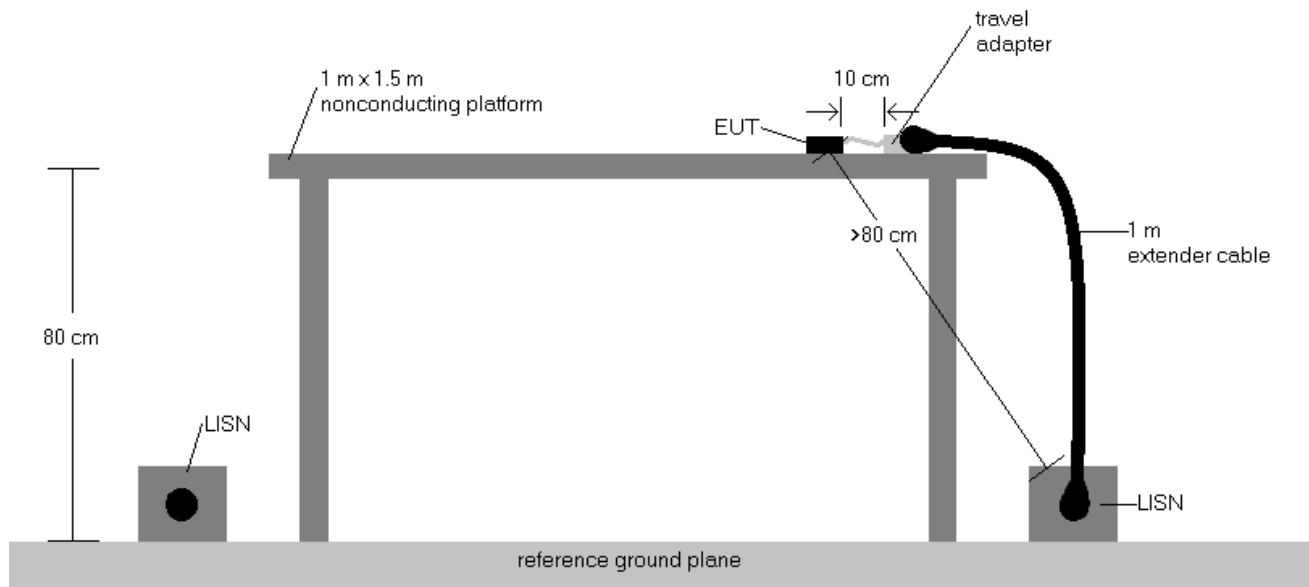
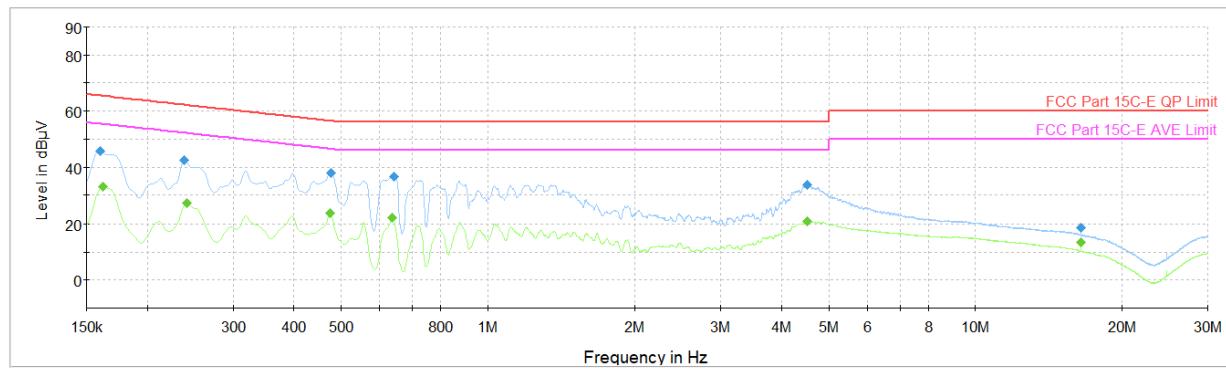


Figure 7-9. Test Instrument & Measurement Setup

Test Notes

1. All modes of operation were investigated and the worst-case emissions are reported. The emissions found were not affected by the choice of channel used during testing.
2. Both configurations below were investigated, and the worst case has been reported.
 - a. EUT powered by AC/DC adaptor via USB-C cable with wire charger
 - b. EUT powered by host PC via USB-C cable with wire charger
3. The limit for an intentional radiator from 150kHz to 30MHz are specified in Part 15.207 and RSS-Gen(8.8).
4. Corr. (dB) = Cable loss (dB) + LISN insertion factor (dB)
5. QP/AV Level (dB μ V) = QP/AV Analyzer/Receiver Level (dB μ V) + Correction Factor (dB)
6. Margin (dB) = QP/AV Level (dB μ V) - QP/AV Limit (dB μ V)
7. Traces shown in plot are made using quasi peak and average detectors.
8. Deviations to the Specifications: None.

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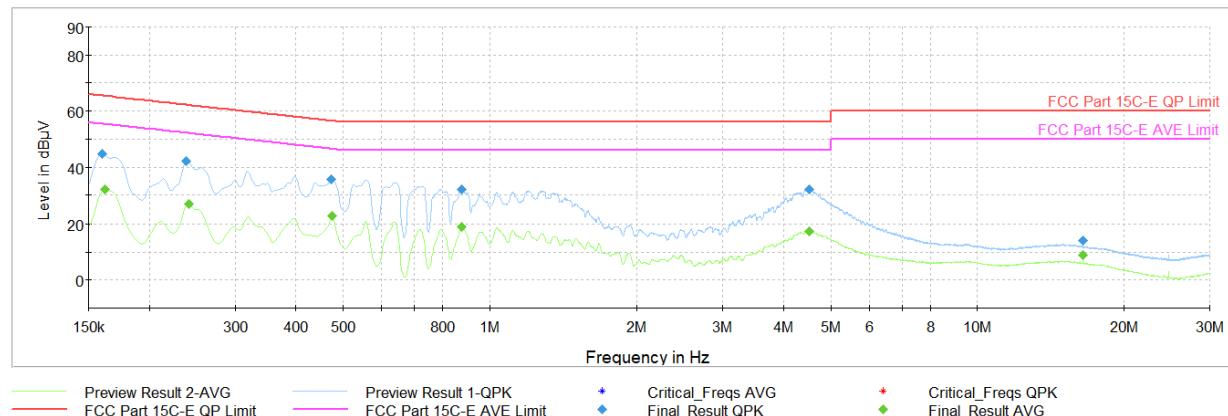


Plot 7-105. AC Line Conducted Plot with Bluetooth HDR TxBF (L1, 4Mbps ePA - Ch.38 with AC/DC Adapter)

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.160	FINAL	45.9	—	65.48	-19.63	L1	GND
0.162	FINAL	—	33.12	55.36	-22.24	L1	GND
0.239	FINAL	42.4	—	62.15	-19.79	L1	GND
0.241	FINAL	—	27.33	52.07	-24.74	L1	GND
0.475	FINAL	—	24.02	46.43	-22.41	L1	GND
0.477	FINAL	37.7	—	56.39	-18.67	L1	GND
0.637	FINAL	—	22.17	46.00	-23.83	L1	GND
0.641	FINAL	36.5	—	56.00	-19.47	L1	GND
4.505	FINAL	33.7	—	56.00	-22.34	L1	GND
4.511	FINAL	—	20.78	46.00	-25.22	L1	GND
16.486	FINAL	—	13.36	50.00	-36.64	L1	GND
16.486	FINAL	18.6	—	60.00	-41.39	L1	GND

Table 7-26. AC Line Conducted Data with Bluetooth HDR TxBF (L1, 4Mbps ePA - Ch.38 with AC/DC Adapter)

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Plot 7-106. AC Line Conducted Plot with Bluetooth HDR TxBF(N, 4Mbps ePA - Ch.38 with AC/DC Adapter)

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.160	FINAL	44.8	--	65.48	-20.69	N	GND
0.162	FINAL	--	32.12	55.36	-23.24	N	GND
0.239	FINAL	42.2	--	62.15	-19.98	N	GND
0.241	FINAL	--	27.16	52.07	-24.91	N	GND
0.473	FINAL	35.5	--	56.47	-21.02	N	GND
0.475	FINAL	--	22.76	46.43	-23.67	N	GND
0.875	FINAL	32.1	--	56.00	-23.88	N	GND
0.875	FINAL	--	18.88	46.00	-27.12	N	GND
4.505	FINAL	32.2	--	56.00	-23.84	N	GND
4.505	FINAL	--	17.22	46.00	-28.78	N	GND
16.495	FINAL	--	8.90	50.00	-41.10	N	GND
16.495	FINAL	14.2	--	60.00	-45.82	N	GND

Table 7-27. AC Line Conducted Data with Bluetooth HDR TxBF(N, 4Mbps ePA - Ch.38 with AC/DC Adapter)

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8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Apple Tablet Device** **FCC ID: BCGA2588 and IC: 579C-A2588** is in compliance with Part 15 Subpart C (15.247) of the FCC Rules and RSS-247 of the Innovation, Science and Economic Development Canada Rules.

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