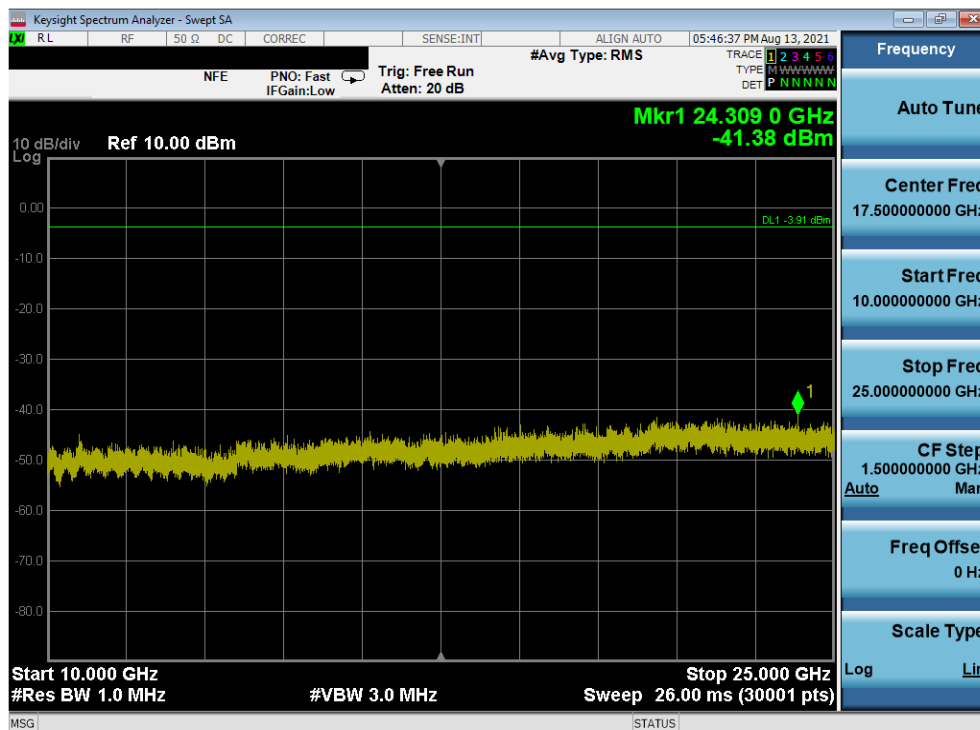
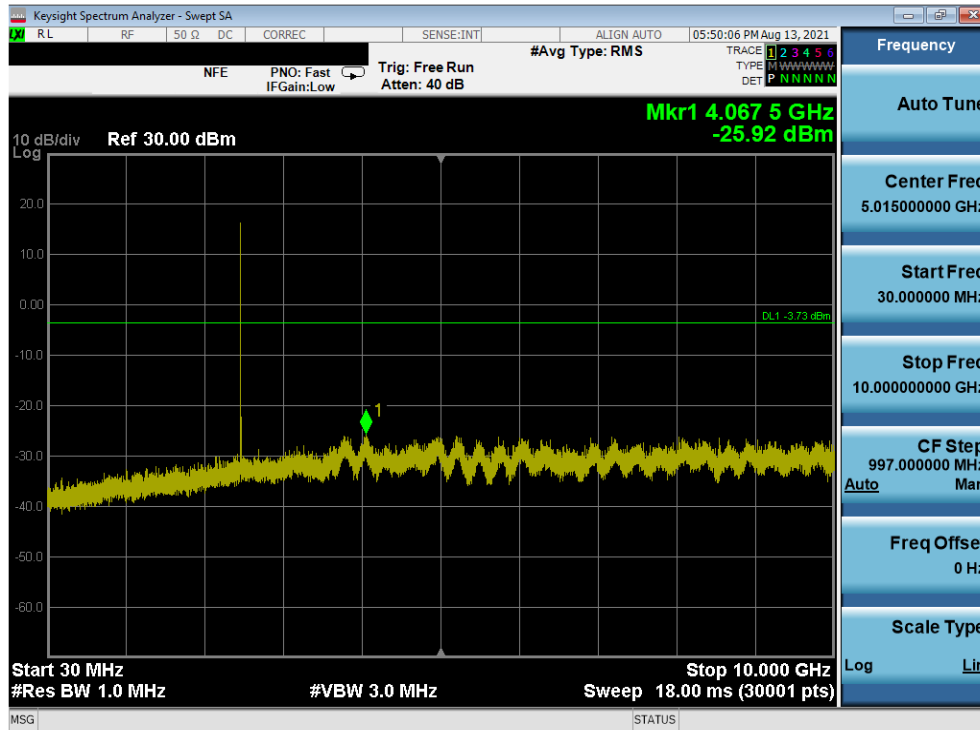


Plot 7-71. Conducted Spurious Plot Antenna 3a (Bluetooth (HDR4), 4 Mbps, ePA – Ch. 38)

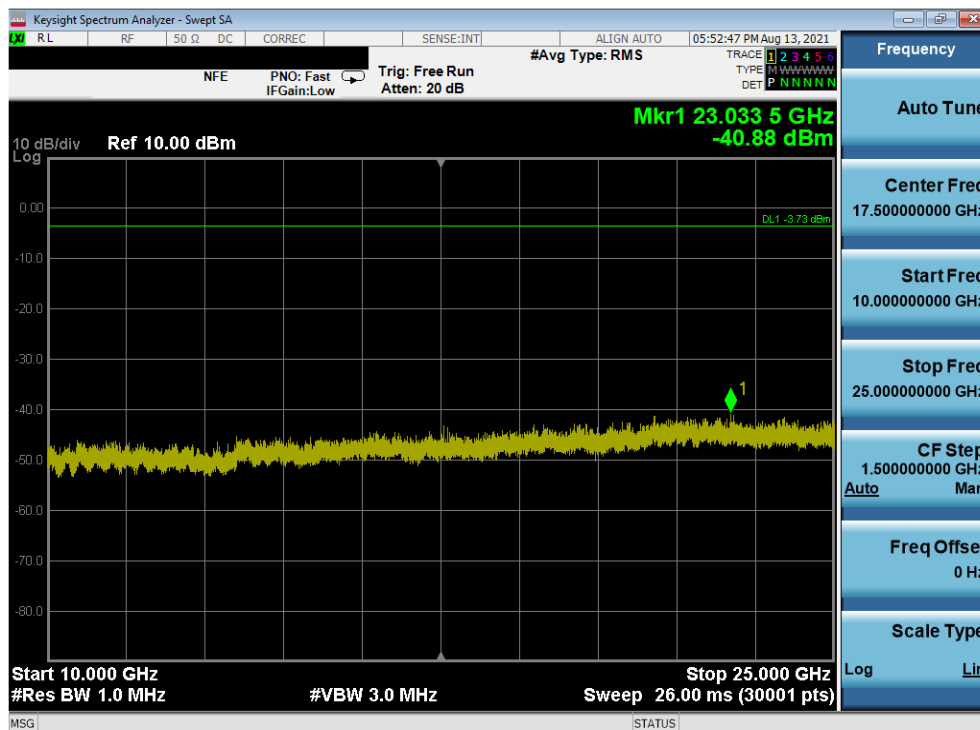


Plot 7-72. Conducted Spurious Plot Antenna 3a (Bluetooth (HDR4), 4 Mbps, ePA – Ch. 38)

FCC ID: BCGA2568 IC: 579C-A2568	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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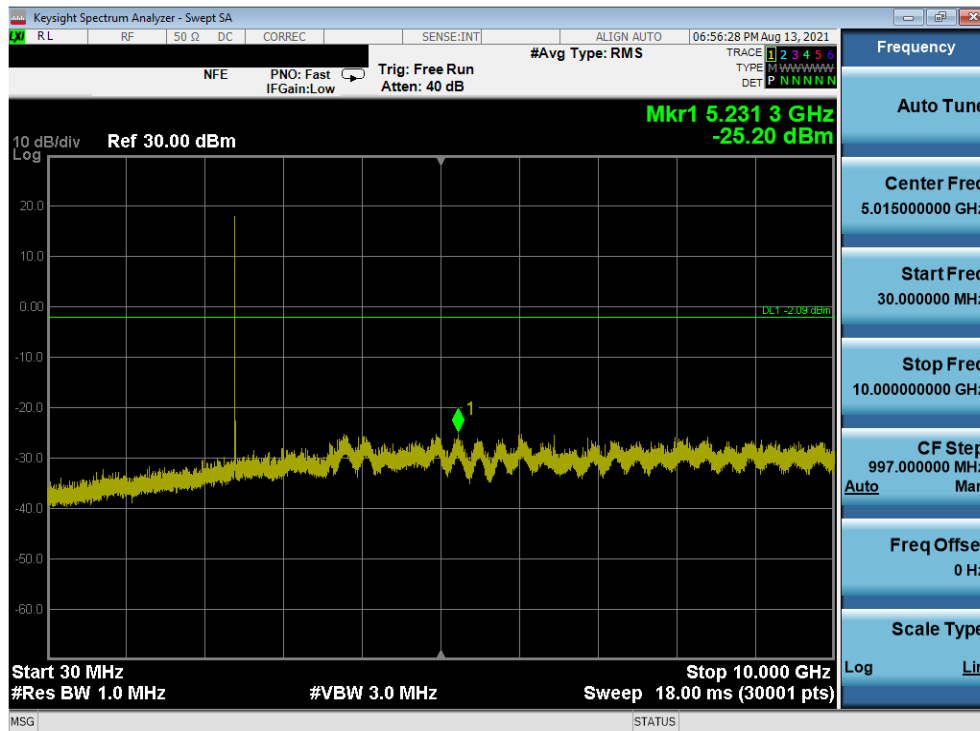
Plot 7-73. Conducted Spurious Plot Antenna 3a (Bluetooth (HDR4), 4 Mbps, ePA – Ch. 73)



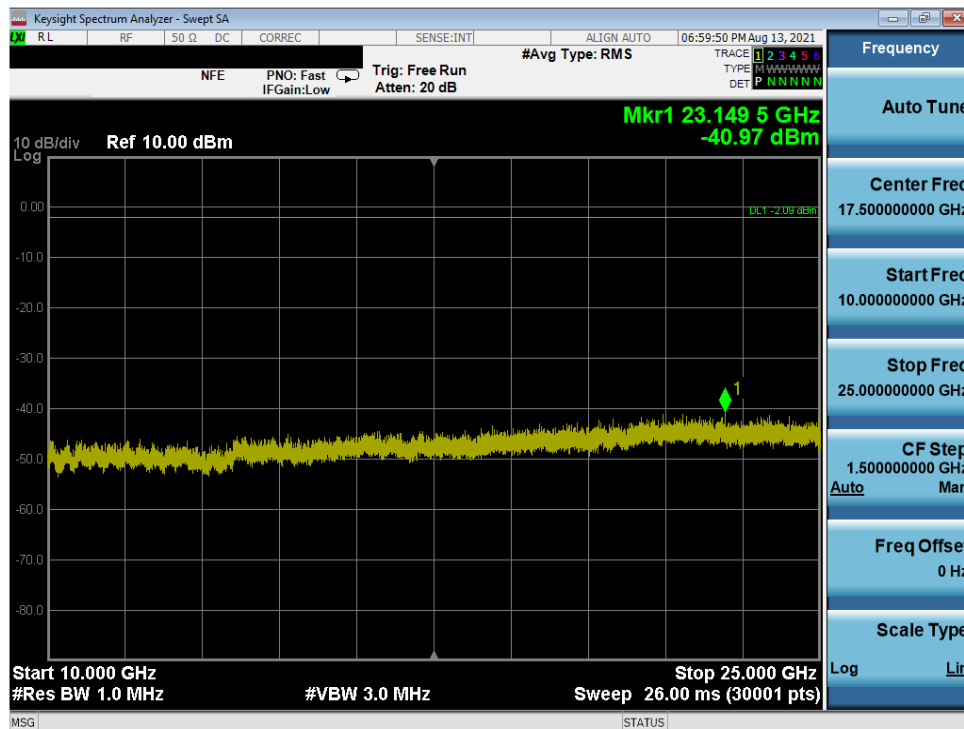
Plot 7-74. Conducted Spurious Plot Antenna 3a (Bluetooth (HDR4), 4 Mbps, ePA – Ch. 73)

FCC ID: BCGA2568 IC: 579C-A2568	 Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080049-10.BCG	Test Dates: 6/2/2021 - 8/19/2021	EUT Type: Tablet Device	Page 67 of 104


Antenna 1a

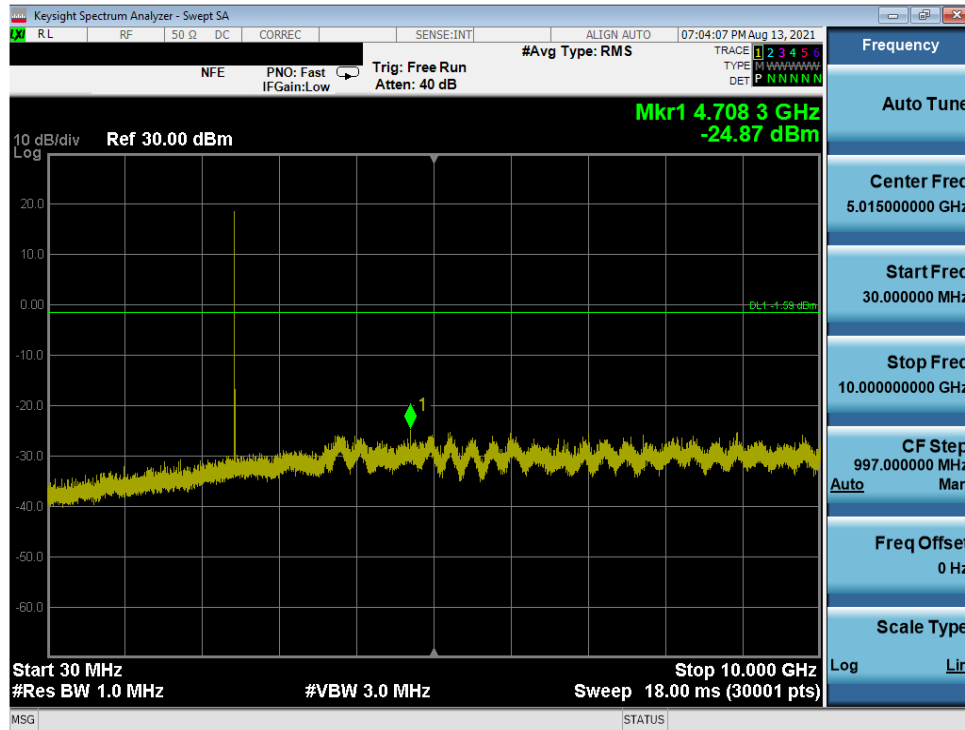


Plot 7-75. Conducted Spurious Plot Antenna 1a (Bluetooth (HDR4), 4 Mbps, ePA – Ch. 1)

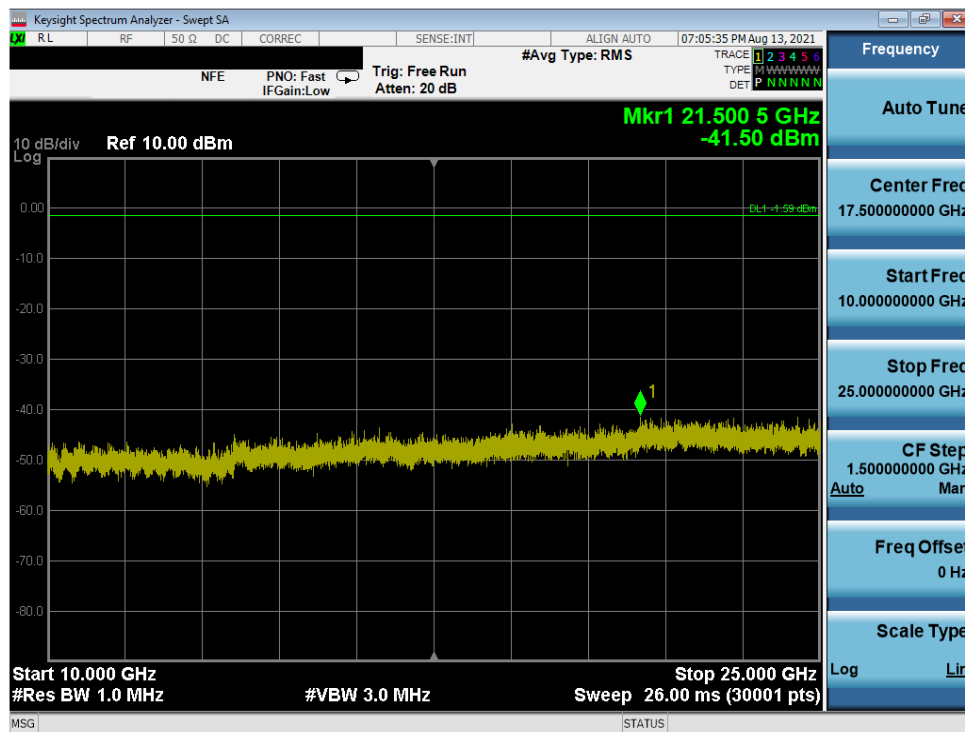


Plot 7-76. Conducted Spurious Plot Antenna 1a (Bluetooth (HDR4), 4 Mbps, ePA – Ch. 1)

FCC ID: BCGA2568 IC: 579C-A2568	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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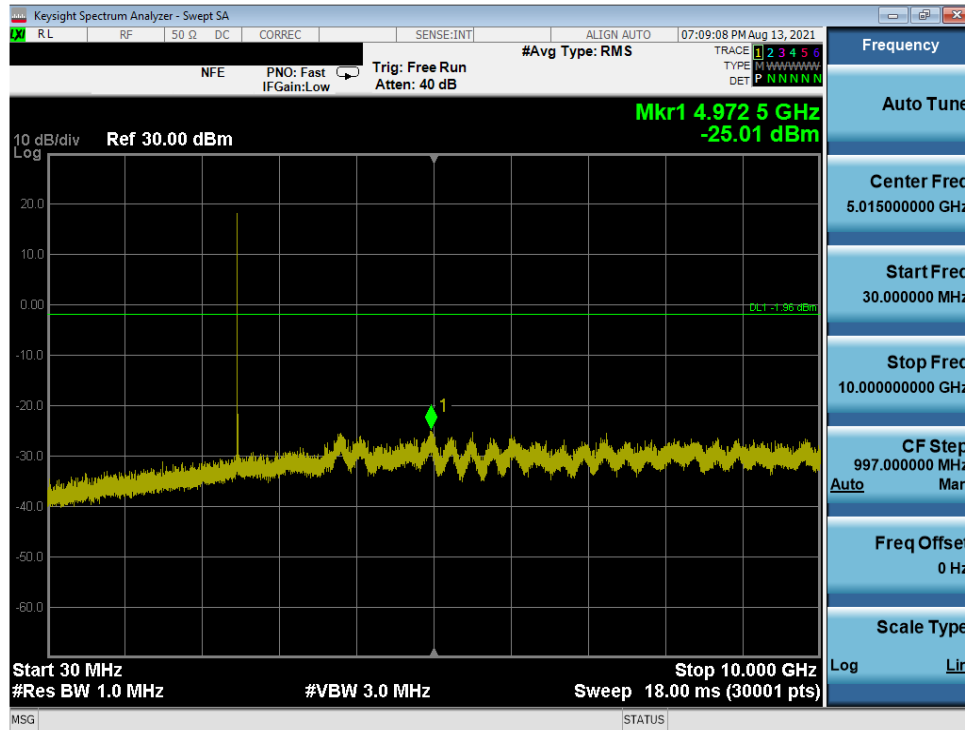


Plot 7-77. Conducted Spurious Plot Antenna 1a (Bluetooth (HDR4), 4 Mbps, ePA – Ch. 38)

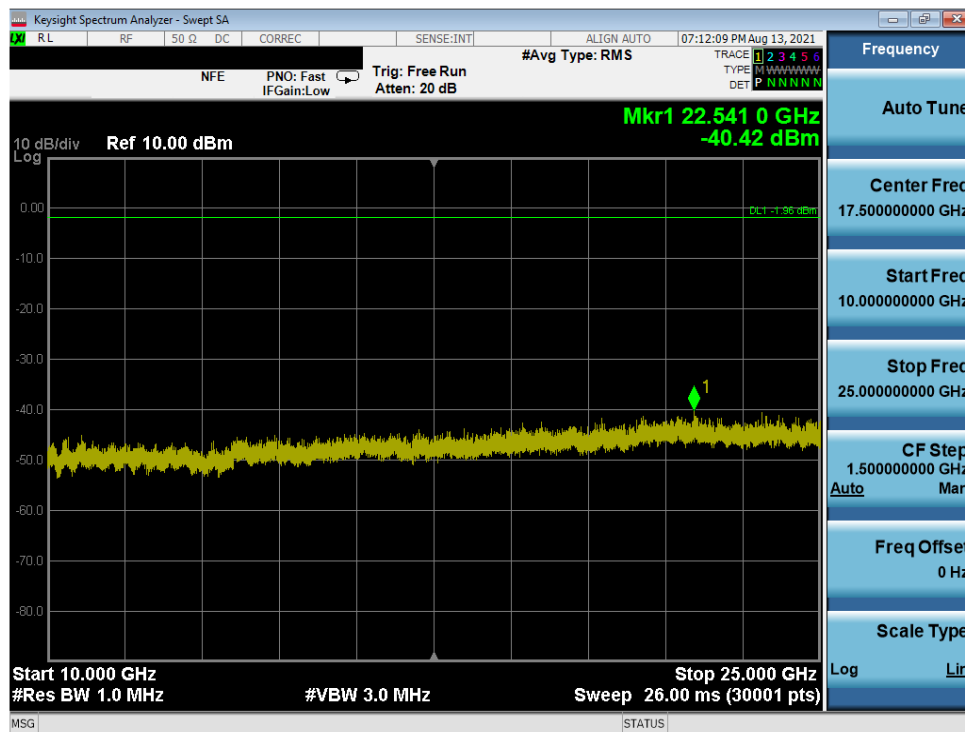


Plot 7-78. Conducted Spurious Plot Antenna 1a (Bluetooth (HDR4), 4 Mbps, ePA – Ch. 38)

FCC ID: BCGA2568 IC: 579C-A2568	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Plot 7-79. Conducted Spurious Plot Antenna 1a (Bluetooth (HDR4), 4 Mbps, ePA – Ch. 73)



Plot 7-80. Conducted Spurious Plot Antenna 1a (Bluetooth (HDR4), 4 Mbps, ePA – Ch. 73)

FCC ID: BCGA2568 IC: 579C-A2568	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2106080049-10.BCG	Test Dates: 6/2/2021 - 8/19/2021	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 [μV/m]	Measured Distance [Meters]
Above 960.0 MHz	500	3

Table 7-13. Radiated Limits

Test Procedures Used

ANSI C63.10-2013 – Section 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 $\geq 2 \times \text{span/RBW}$)
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.

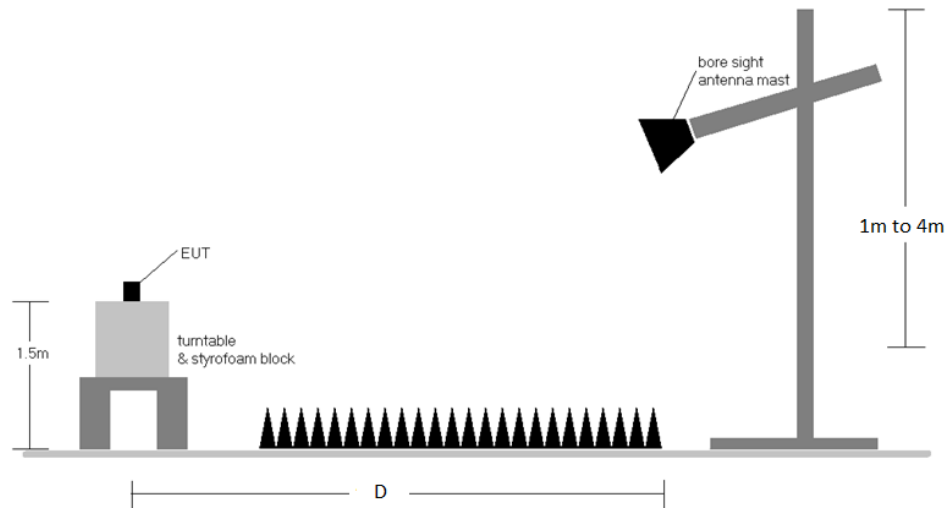


Figure 7-6. Radiated Test Setup >1GHz

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

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:

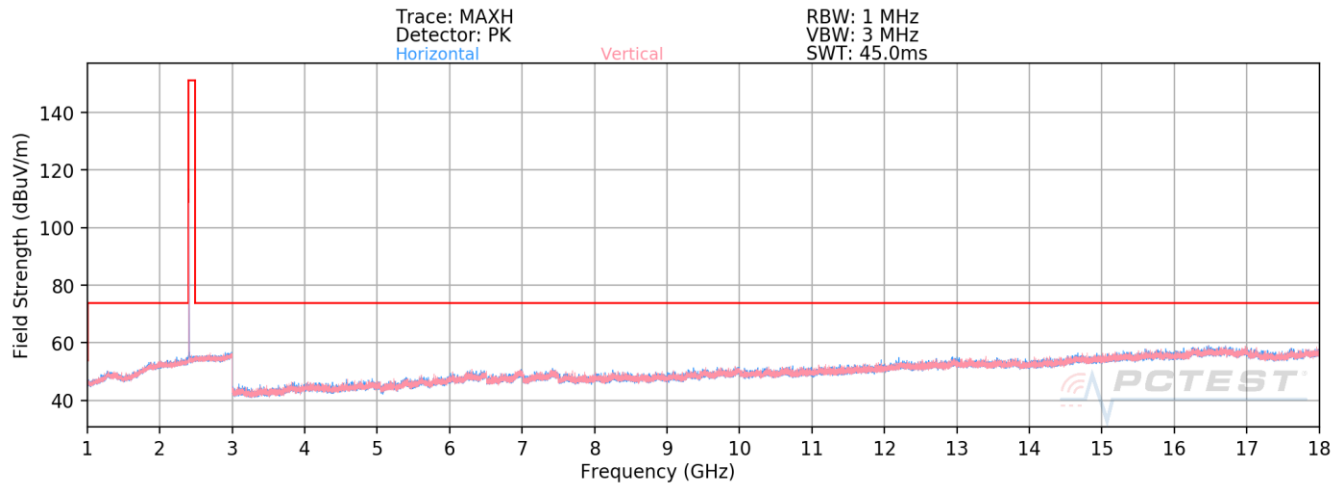
$$\text{Offset (dB)} = (\text{Antenna Factor} + \text{Cable Loss} + \text{Attenuator}) - \text{Preamplifier Gain}$$

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Radiated Spurious Emission Measurements (1 – 18GHz)

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

Antenna 3a



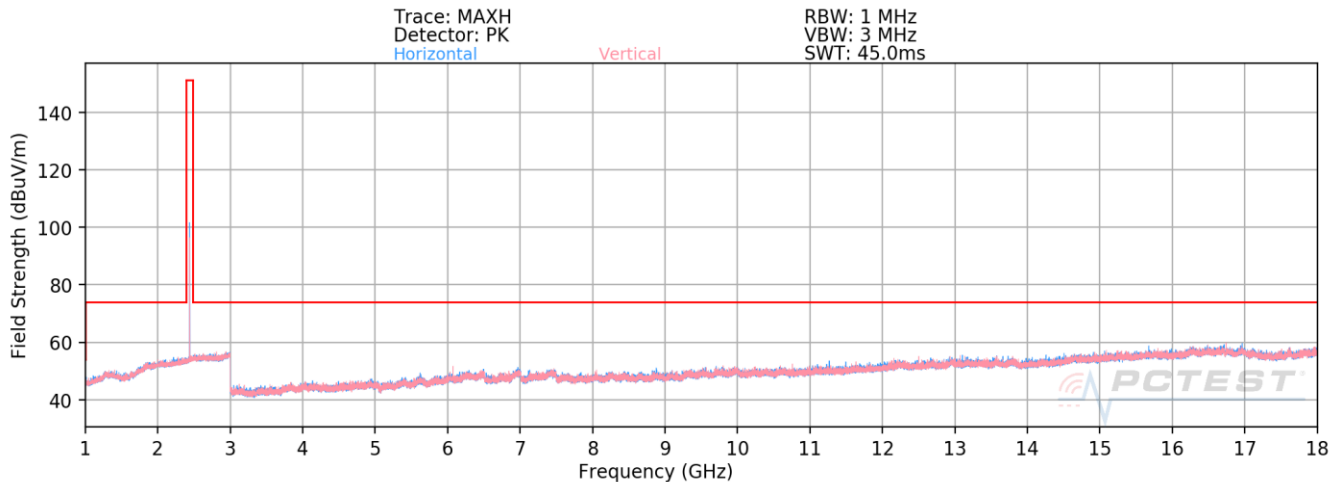
Plot 7-81. Radiated Spurious Emissions Above 1GHz Antenna 3a (4Mbps, HDR4, ePA – Ch. 1)

Bluetooth Mode: HDR4
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 [dBuV/m]	Limit [dBuV/m]	Margin [dB]
4808.00	Avg	H	-	-	-81.46	8.28	33.82	53.98	-20.16
4808.00	Peak	H	-	-	-70.09	8.28	45.19	73.98	-28.79
12020.00	Avg	H	-	-	-84.45	17.26	39.81	53.98	-14.17
12020.00	Peak	H	-	-	-72.22	17.26	52.04	73.98	-21.94

Table 7-14. Radiated Measurements Antenna 3a

FCC ID: BCGA2568 IC: 579C-A2568	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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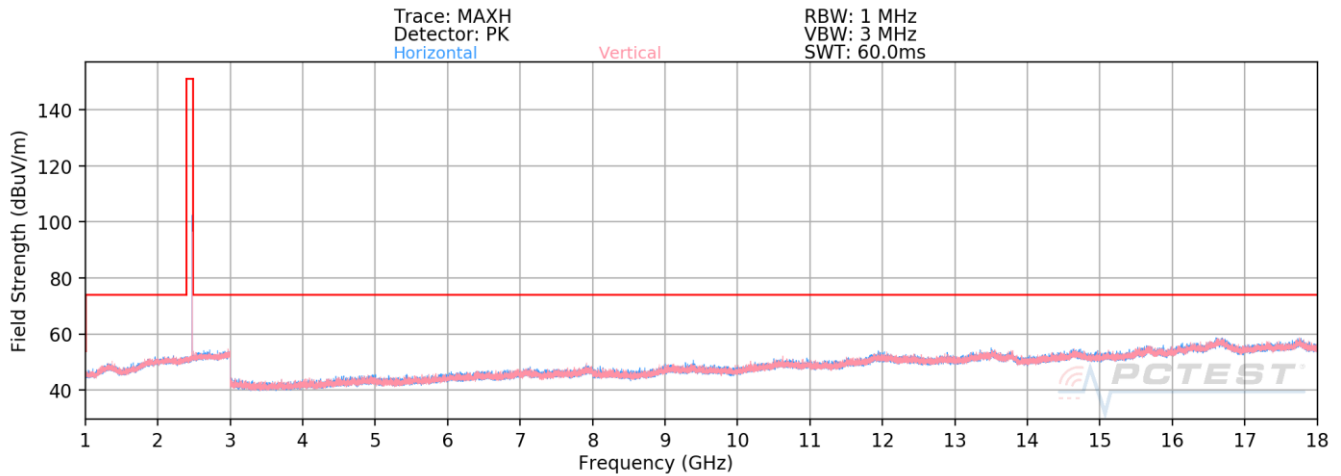
Plot 7-82. Radiated Spurious Emissions Above 1GHz Antenna 3a (4Mbps, HDR4, ePA – Ch. 38)

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

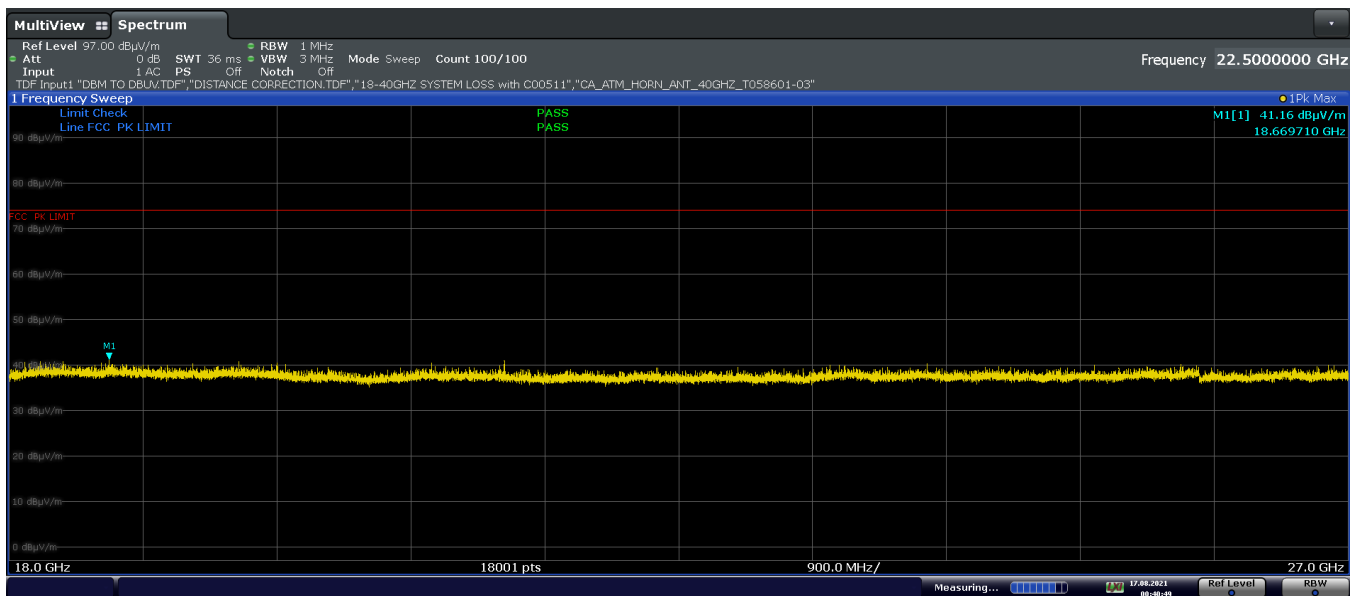
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
4882.00	Avg	H	-	-	-81.53	8.51	33.98	53.98	-20.00
4882.00	Peak	H	-	-	-70.60	8.51	44.91	73.98	-29.07
7323.00	Avg	H	-	-	-81.40	11.19	36.79	53.98	-17.19
7323.00	Peak	H	-	-	-70.14	11.19	48.05	73.98	-25.93
12205.00	Avg	H	-	-	-84.44	17.49	40.05	53.98	-13.93
12205.00	Peak	H	-	-	-73.13	17.49	51.36	73.98	-22.62

Table 7-15. Radiated Measurements Antenna 3a

FCC ID: BCGA2568 IC: 579C-A2568	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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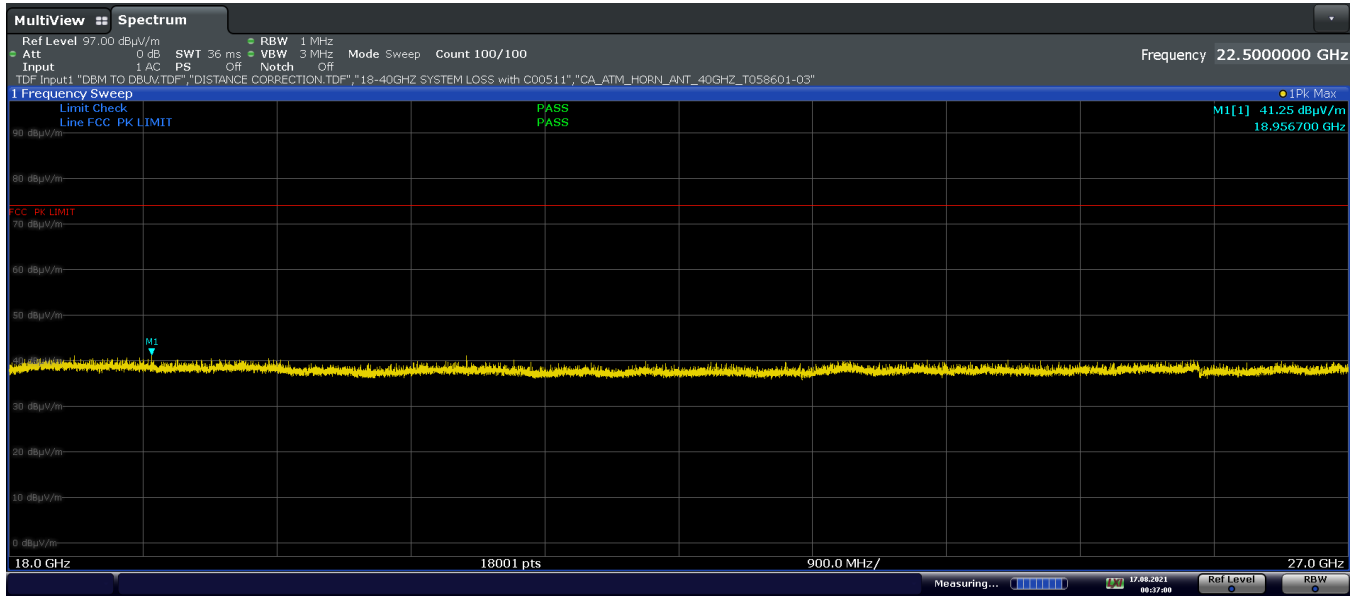


Plot 7-83. Radiated Spurious Emissions Above 1GHz Antenna 3a (4Mbps, HDR4, ePA – Ch. 73)



Plot 7-84. Radiated Spurious Emissions Above 18GHz Antenna 3a (4Mbps – Ch. 73, ePA, Ant. Pol. H)

FCC ID: BCGA2568 IC: 579C-A2568	 Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-85. Radiated Spurious Emissions Above 18GHz Antenna 3a (4Mbps – Ch. 73, ePA, Ant. Pol. V)

Bluetooth Mode: HDR4
 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 [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4952.00	Avg	H	-	-	-81.14	6.94	32.80	53.98	-21.18
4952.00	Peak	H	-	-	-69.91	6.94	44.03	73.98	-29.95
7428.00	Avg	H	-	-	-83.49	10.13	33.64	53.98	-20.34
7428.00	Peak	H	-	-	-71.75	10.13	45.38	73.98	-28.60
12380.00	Avg	H	-	-	-84.47	15.58	38.11	53.98	-15.87
12380.00	Peak	H	-	-	-73.08	15.58	49.50	73.98	-24.48

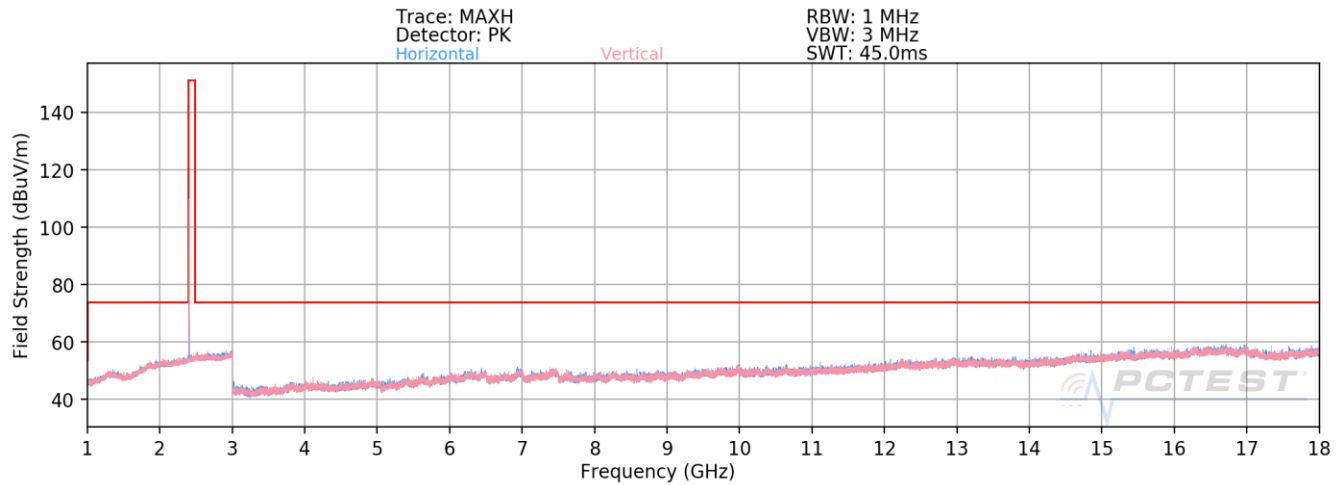
Table 7-16. Radiated Measurements Antenna 3a

FCC ID: BCGA2568 IC: 579C-A2568	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Radiated Spurious Emission Measurements (1 – 18GHz)

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

Antenna 1a



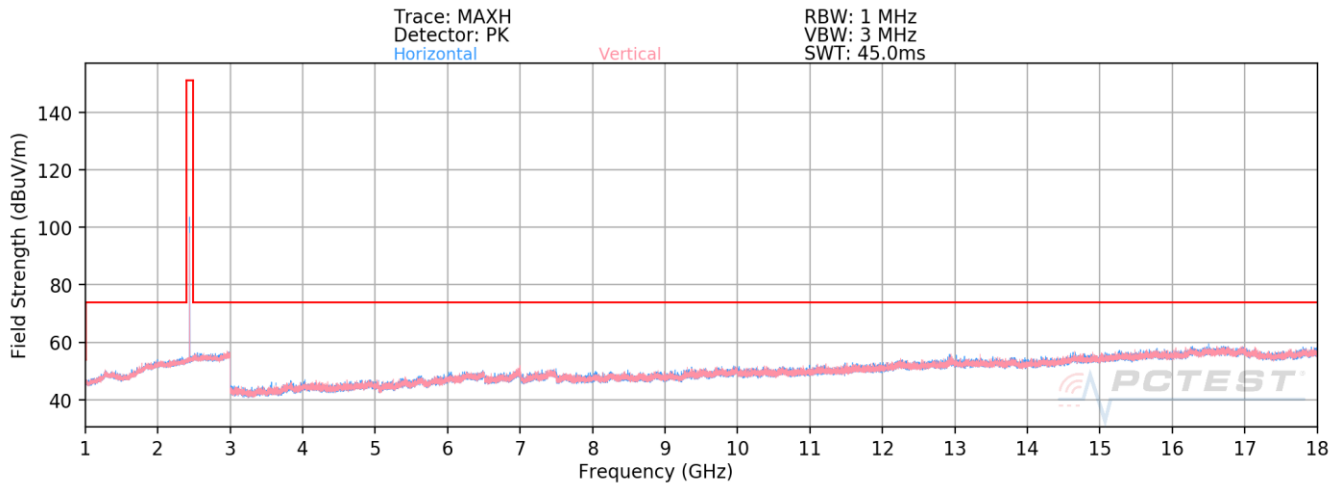
Plot 7-86. Radiated Spurious Emissions Above 1GHz Antenna 1a (4Mbps, HDR4, ePA – Ch. 1)

Bluetooth Mode: HDR4
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 [dBuV/m]	Limit [dBuV/m]	Margin [dB]
4808.00	Avg	H	-	-	-81.53	8.28	33.75	53.98	-20.23
4808.00	Peak	H	-	-	-70.48	8.28	44.80	73.98	-29.18
12020.00	Avg	H	-	-	-84.56	17.26	39.70	53.98	-14.28
12020.00	Peak	H	-	-	-72.98	17.26	51.28	73.98	-22.70

Table 7-17. Radiated Measurements Antenna 1a

FCC ID: BCGA2568 IC: 579C-A2568	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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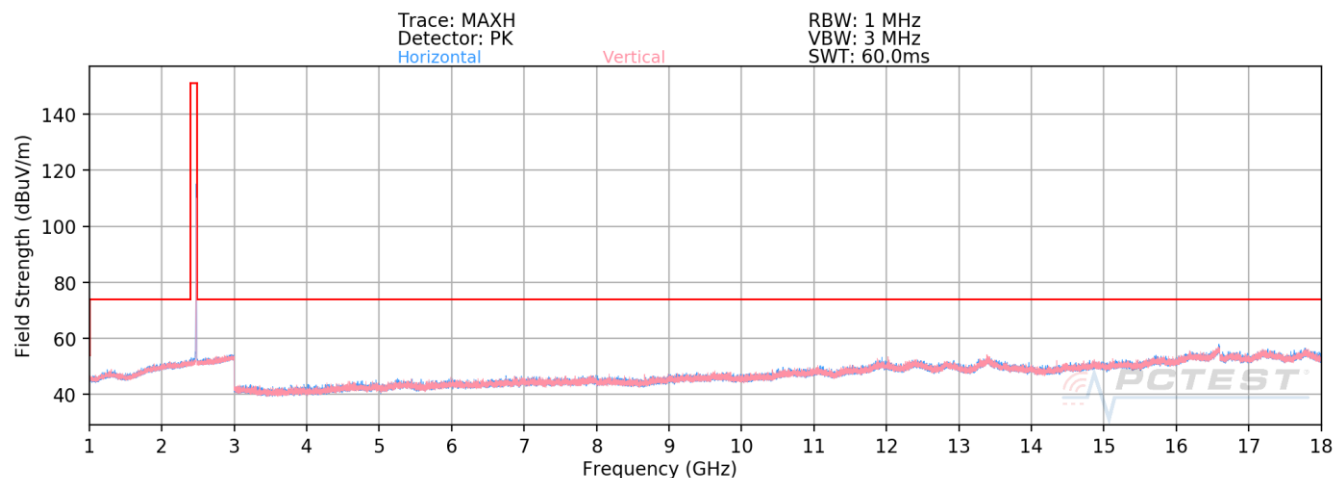
Plot 7-87. Radiated Spurious Emissions Above 1GHz Antenna 1a (4Mbps, HDR4, ePA – Ch. 38)

Bluetooth Mode: HDR4
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 [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4882.00	Avg	H	-	-	-81.19	8.51	34.32	53.98	-19.66
4882.00	Peak	H	-	-	-70.27	8.51	45.24	73.98	-28.74
7323.00	Avg	H	-	-	-81.27	11.19	36.92	53.98	-17.06
7323.00	Peak	H	-	-	-69.73	11.19	48.46	73.98	-25.52
12205.00	Avg	H	-	-	-84.14	17.49	40.35	53.98	-13.63
12205.00	Peak	H	-	-	-72.91	17.49	51.58	73.98	-22.40

Table 7-18. Radiated Measurements Antenna 1a

FCC ID: BCGA2568 IC: 579C-A2568	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-88. Radiated Spurious Emissions Above 1GHz Antenna 1a (4Mbps, HDR4, ePA – Ch. 73)

Bluetooth Mode: HDR4
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 [dBuV/m]	Limit [dBuV/m]	Margin [dB]
4952.00	Avg	H	-	-	-80.30	6.94	33.64	53.98	-20.34
4952.00	Peak	H	-	-	-68.87	6.94	45.07	73.98	-28.91
7428.00	Avg	H	-	-	-81.75	10.13	35.38	53.98	-18.60
7428.00	Peak	H	-	-	-70.76	10.13	46.37	73.98	-27.61
12380.00	Avg	H	-	-	-82.38	15.58	40.20	53.98	-13.78
12380.00	Peak	H	-	-	-70.93	15.58	51.65	73.98	-22.33

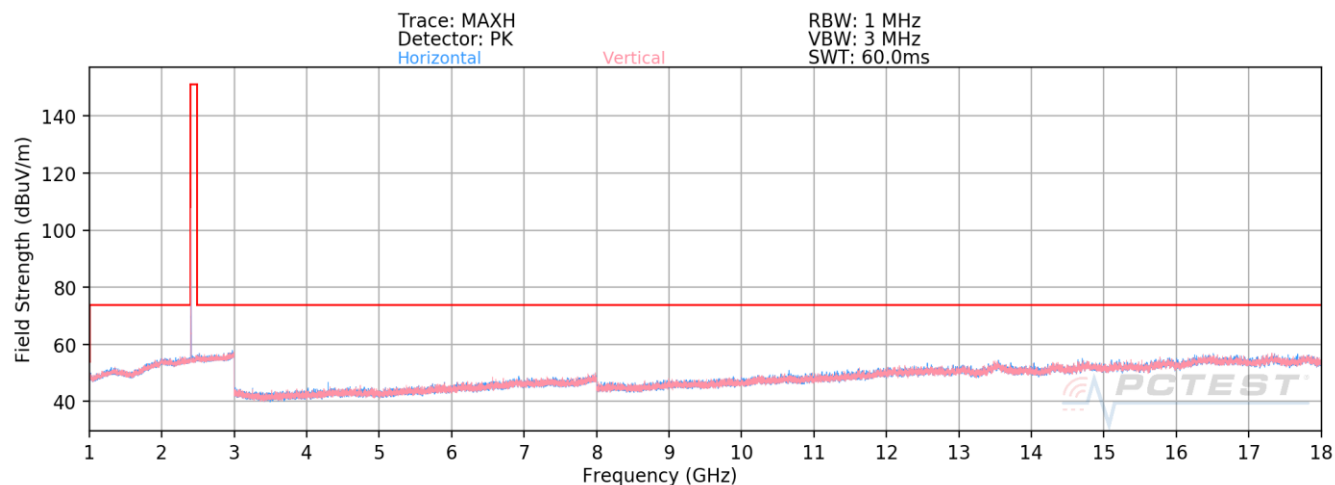
Table 7-19. Radiated Measurements Antenna 1a

FCC ID: BCGA2568 IC: 579C-A2568	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Radiated Spurious Emission Measurements (Above 1GHz)

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

TxBF



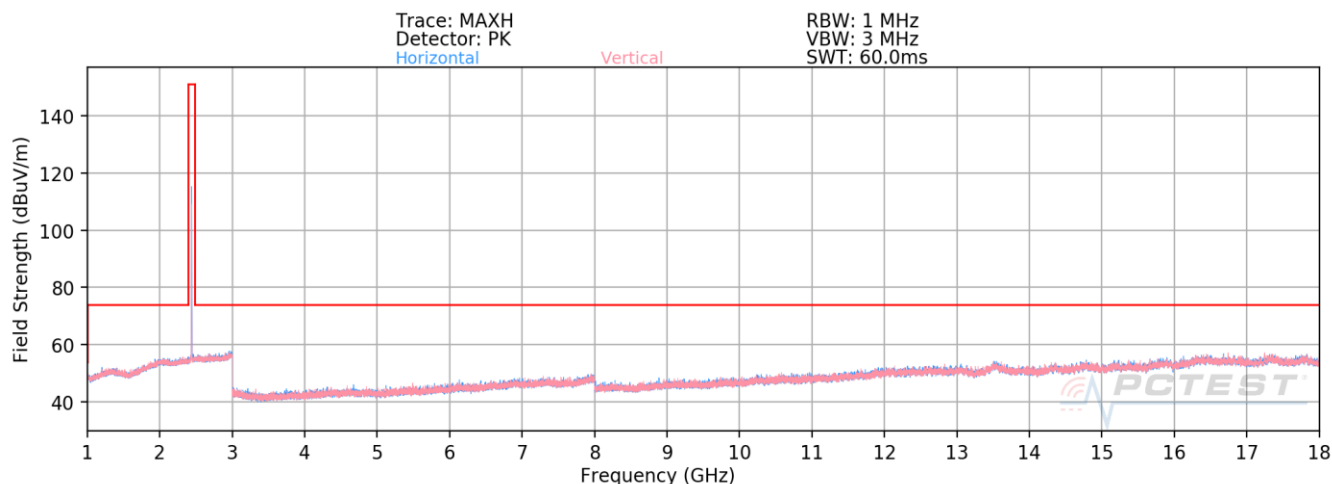
Plot 7-89. Radiated Spurious Emissions Above 1GHz TxBF (4Mbps, HDR4, ePA – Ch. 1)

Bluetooth Mode: HDR4
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 [dBuV/m]	Limit [dBuV/m]	Margin [dB]
4808.00	Avg	H	-	-	-78.22	5.02	33.80	53.98	-20.17
4808.00	Peak	H	-	-	-66.26	5.02	45.76	73.98	-28.21
12020.00	Avg	H	-	-	-84.78	17.32	39.54	53.98	-14.44
12020.00	Peak	H	-	-	-72.90	17.32	51.42	73.98	-22.56

Table 7-20. Radiated Measurements TxBF

FCC ID: BCGA2568 IC: 579C-A2568	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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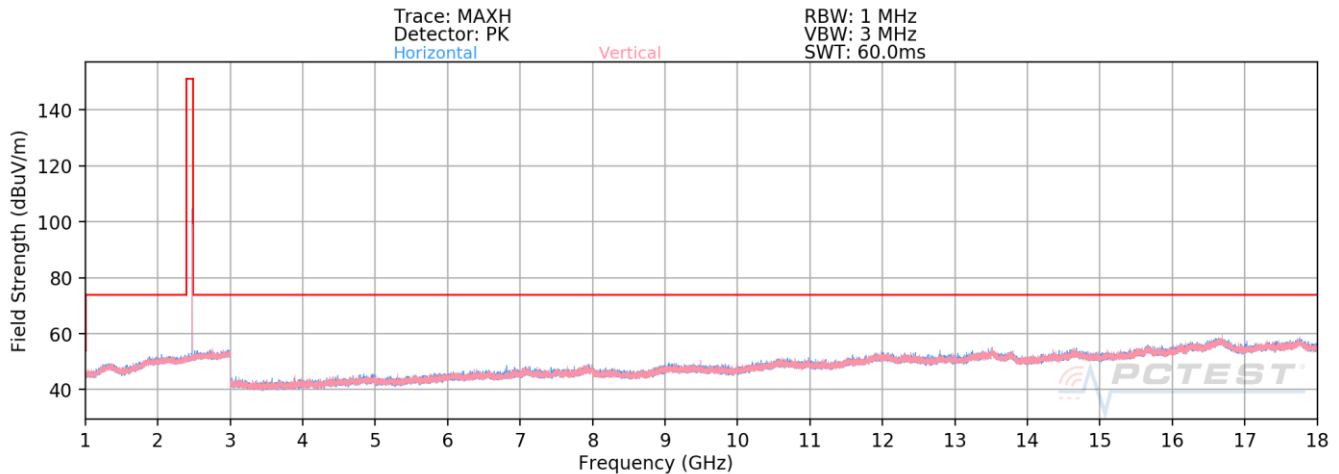
Plot 7-90. Radiated Spurious Emissions Above 1GHz TxBF (4Mbps, HDR4, ePA – Ch. 38)

Bluetooth Mode: HDR4
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 [dBuV/m]	Limit [dBuV/m]	Margin [dB]
4882.00	Avg	H	-	-	-78.68	5.27	33.59	53.98	-20.39
4882.00	Peak	H	-	-	-66.60	5.27	45.67	73.98	-28.31
7323.00	Avg	H	-	-	-79.65	9.04	36.39	53.98	-17.59
7323.00	Peak	H	-	-	-67.85	9.04	48.19	73.98	-25.79
12205.00	Avg	H	-	-	-84.62	17.83	40.21	53.98	-13.77
12205.00	Peak	H	-	-	-72.66	17.83	52.17	73.98	-21.81

Table 7-21. Radiated Measurements TxBF

FCC ID: BCGA2568 IC: 579C-A2568	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-91. Radiated Spurious Emissions Above 1GHz TxBF (4Mbps, HDR4, ePA - Ch. 73)

Bluetooth Mode: HDR4
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 [dBuV/m]	Limit [dBuV/m]	Margin [dB]
4952.00	Avg	H	-	-	-81.27	6.94	32.67	53.98	-21.31
4952.00	Peak	H	-	-	-70.37	6.94	43.57	73.98	-30.41
7428.00	Avg	H	-	-	-83.47	10.13	33.66	53.98	-20.32
7428.00	Peak	H	-	-	-71.49	10.13	45.64	73.98	-28.34
12380.00	Avg	H	-	-	-84.41	15.58	38.17	53.98	-15.81
12380.00	Peak	H	-	-	-72.84	15.58	49.74	73.98	-24.24

Table 7-22. Radiated Measurements TxBF

FCC ID: BCGA2568 IC: 579C-A2568	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080049-10.BCG	Test Dates: 6/2/2021 - 8/19/2021	EUT Type: Tablet Device	Page 83 of 104

7.7.1 Radiated Restricted Band Edge Measurements

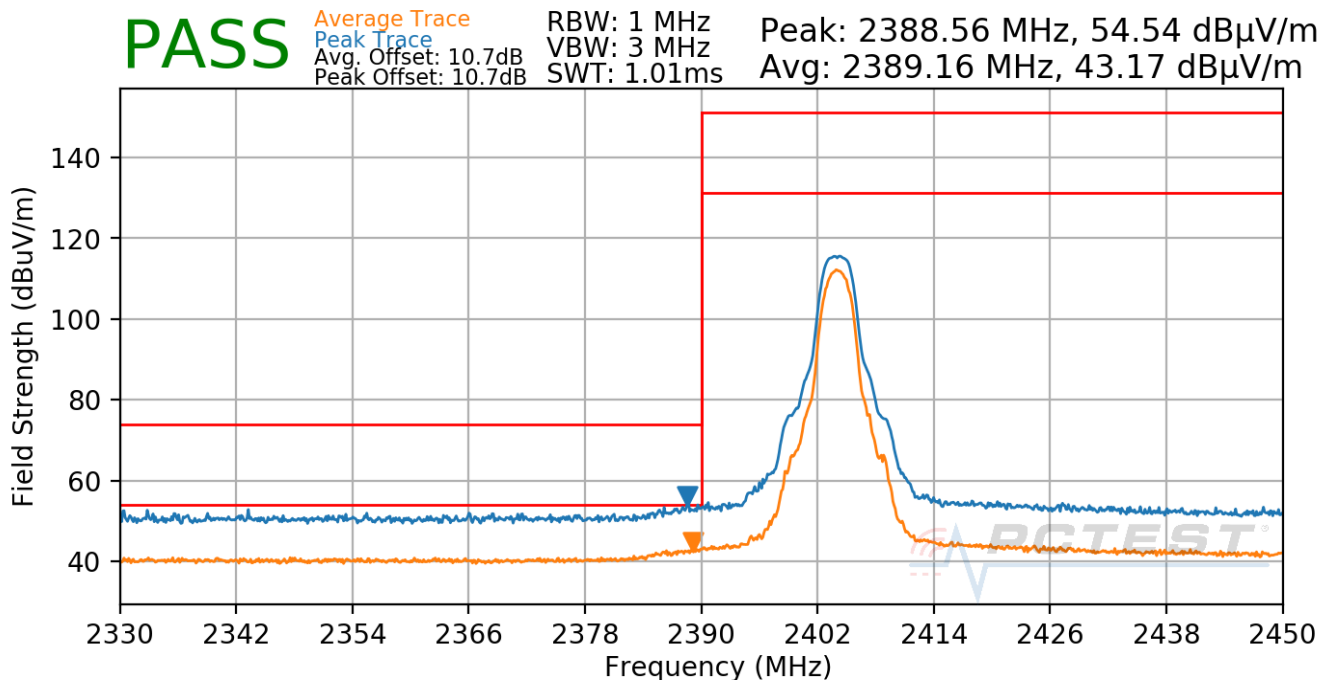
§15.205 §15.209; RSS-Gen [8.9]

Antenna 3a

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-Antenna 3a
Power Scheme:	ePA
Measurement Distance:	3 Meters
Operating Frequency:	2404MHz
Channel:	1



Plot 7-92. Radiated Restricted Lower Band Edge Measurement Antenna 3a (Average & Peak)

FCC ID: BCGA2568 IC: 579C-A2568	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080049-10.BCG	Test Dates: 6/2/2021 - 8/19/2021	EUT Type: Tablet Device	Page 84 of 104

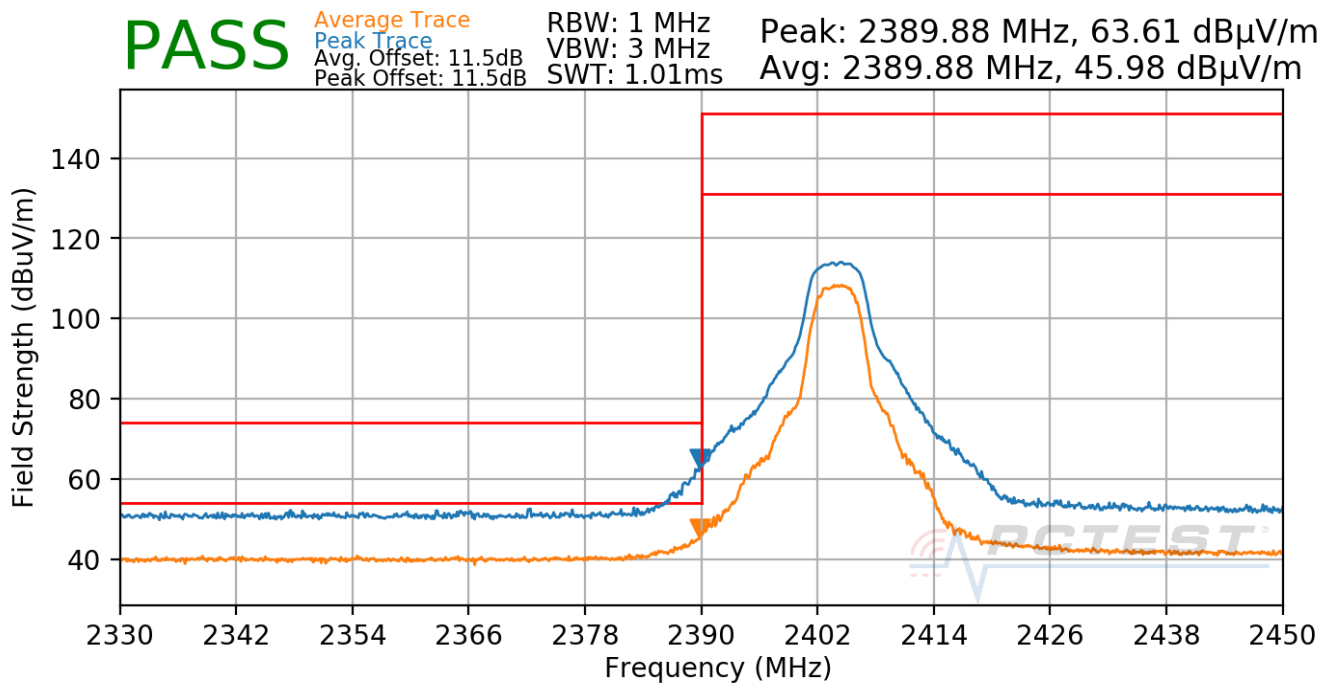
Radiated Restricted Band Edge Measurements

§15.205 §15.209; RSS-Gen [8.9]

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

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

Bluetooth Mode:	HDR8-Antenna 3a
Power Scheme:	ePA
Measurement Distance:	3 Meters
Operating Frequency:	2404MHz
Channel:	1



Plot 7-93. Radiated Restricted Lower Band Edge Measurement Antenna 3a (Average & Peak)

FCC ID: BCGA2568 IC: 579C-A2568	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080049-10.BCG	Test Dates: 6/2/2021 - 8/19/2021	EUT Type: Tablet Device	Page 85 of 104

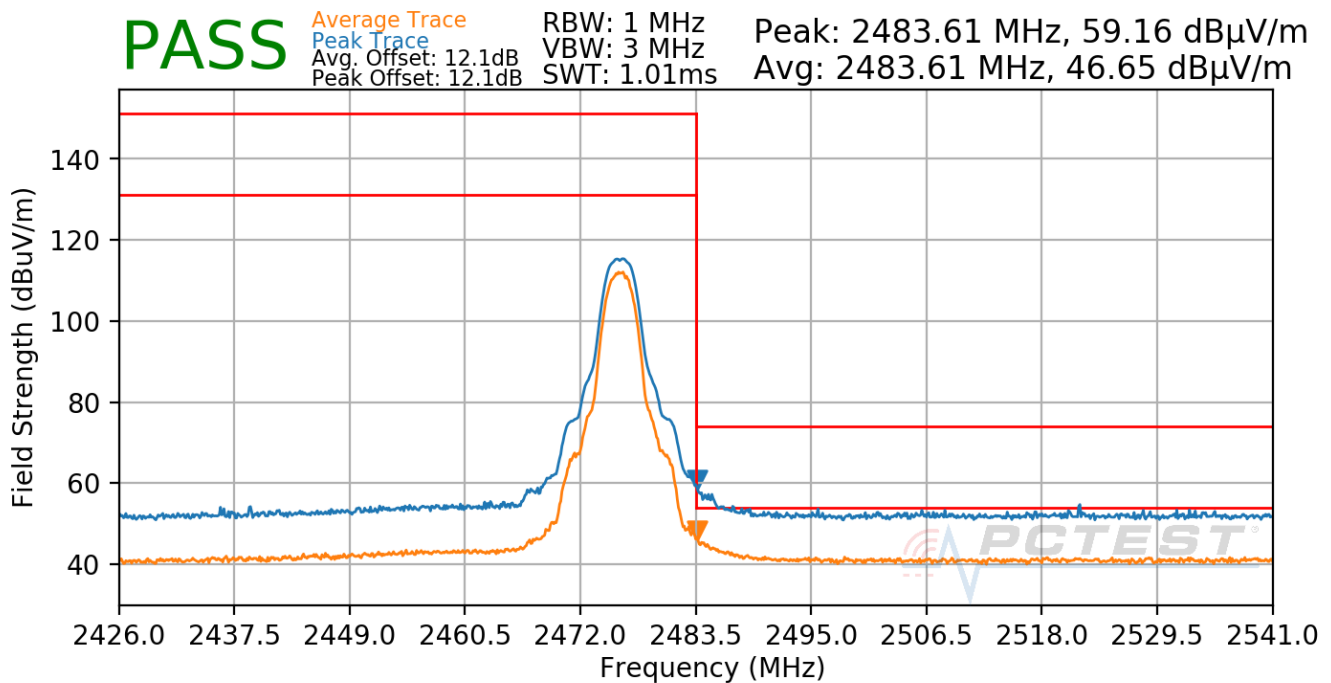
Radiated Restricted Band Edge Measurements

§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-Antenna 3a
Power Scheme:	ePA
Measurement Distance:	3 Meters
Operating Frequency:	2476MHz
Channel:	73



Plot 7-94. Radiated Restricted Upper Band Edge Measurement Antenna 3a (Average & Peak)

FCC ID: BCGA2568 IC: 579C-A2568	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080049-10.BCG	Test Dates: 6/2/2021 - 8/19/2021	EUT Type: Tablet Device	Page 86 of 104

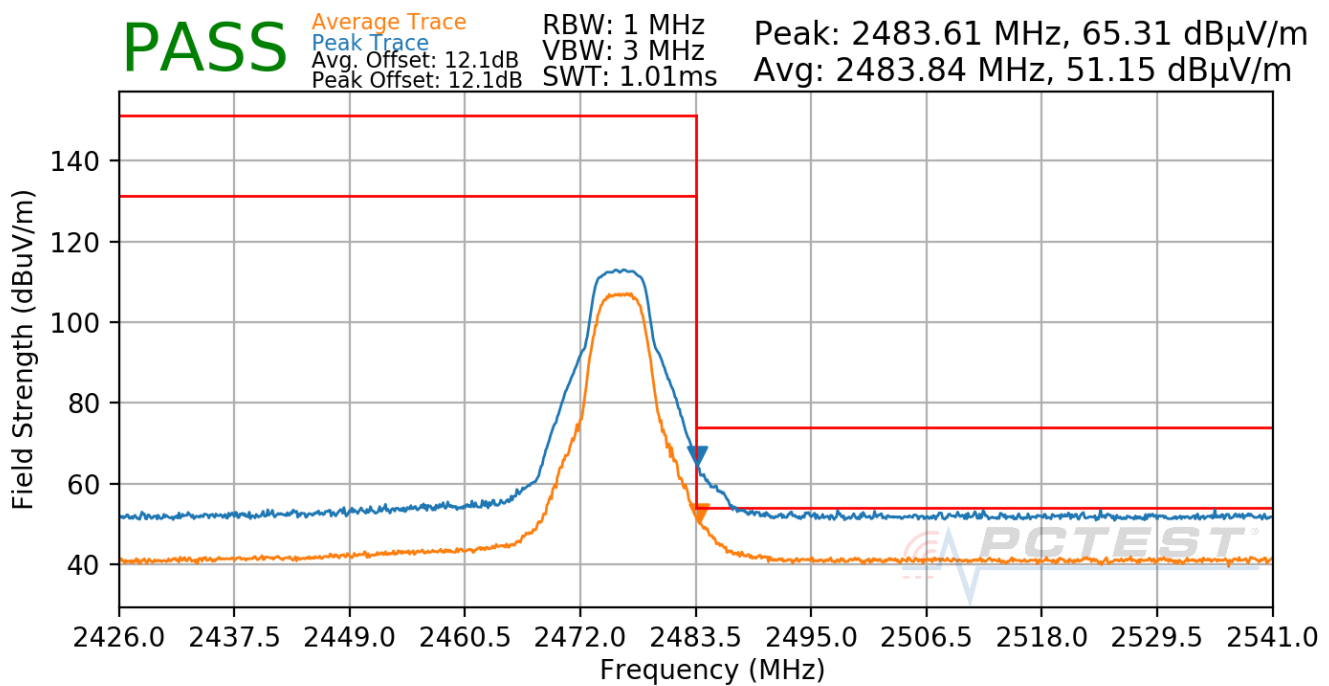
Radiated Restricted Band Edge Measurements

§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-Antenna 3a
Power Scheme:	ePA
Measurement Distance:	3 Meters
Operating Frequency:	2476MHz
Channel:	73



Plot 7-95. Radiated Restricted Upper Band Edge Measurement Antenna 3a (Average & Peak)

FCC ID: BCGA2568 IC: 579C-A2568	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080049-10.BCG	Test Dates: 6/2/2021 - 8/19/2021	EUT Type: Tablet Device	Page 87 of 104

Radiated Restricted Band Edge Measurements

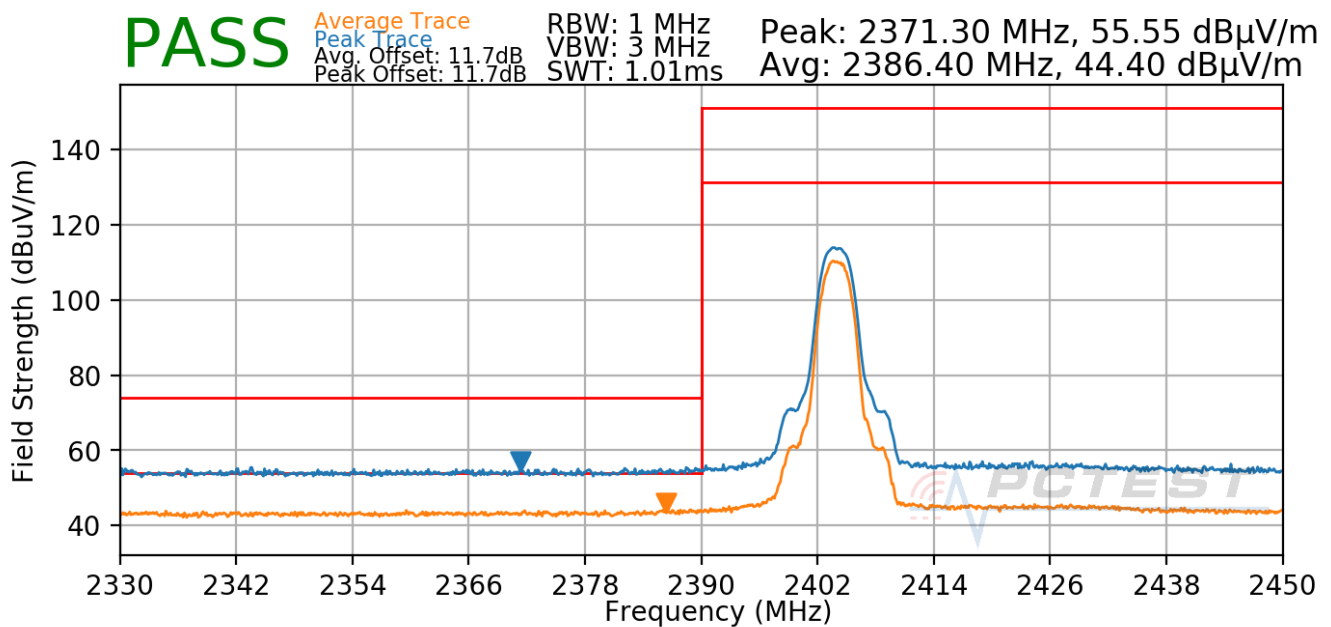
§15.205 §15.209; RSS-Gen [8.9]

Antenna 1a

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-Antenna 1a
Power Scheme:	ePA
Measurement Distance:	3 Meters
Operating Frequency:	2404MHz
Channel:	1



Plot 7-96. Radiated Restricted Lower Band Edge Measurement Antenna 1a (Average & Peak)

FCC ID: BCGA2568 IC: 579C-A2568	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080049-10.BCG	Test Dates: 6/2/2021 - 8/19/2021	EUT Type: Tablet Device	Page 88 of 104

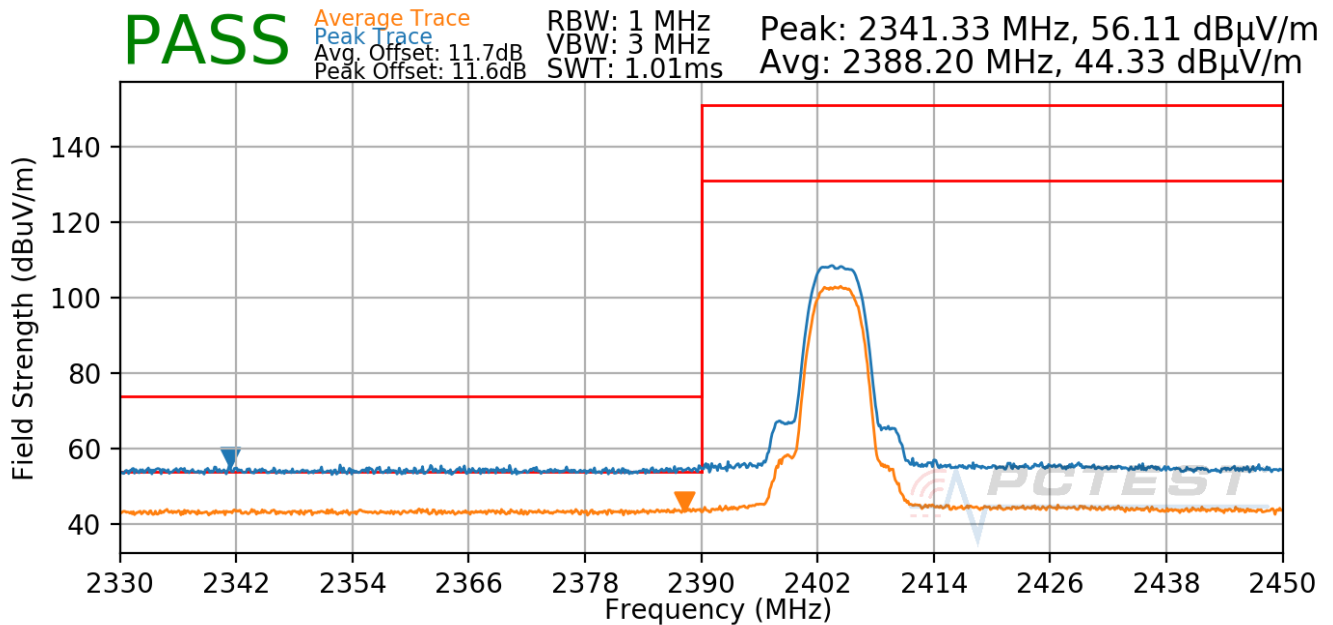
Radiated Restricted Band Edge Measurements

§15.205 §15.209; RSS-Gen [8.9]

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

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

Bluetooth Mode:	HDR8-Antenna 1a
Power Scheme:	ePA
Measurement Distance:	3 Meters
Operating Frequency:	2404MHz
Channel:	1



Plot 7-97. Radiated Restricted Lower Band Edge Measurement Antenna 1a (Average & Peak)

FCC ID: BCGA2568 IC: 579C-A2568	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080049-10.BCG	Test Dates: 6/2/2021 - 8/19/2021	EUT Type: Tablet Device	Page 89 of 104

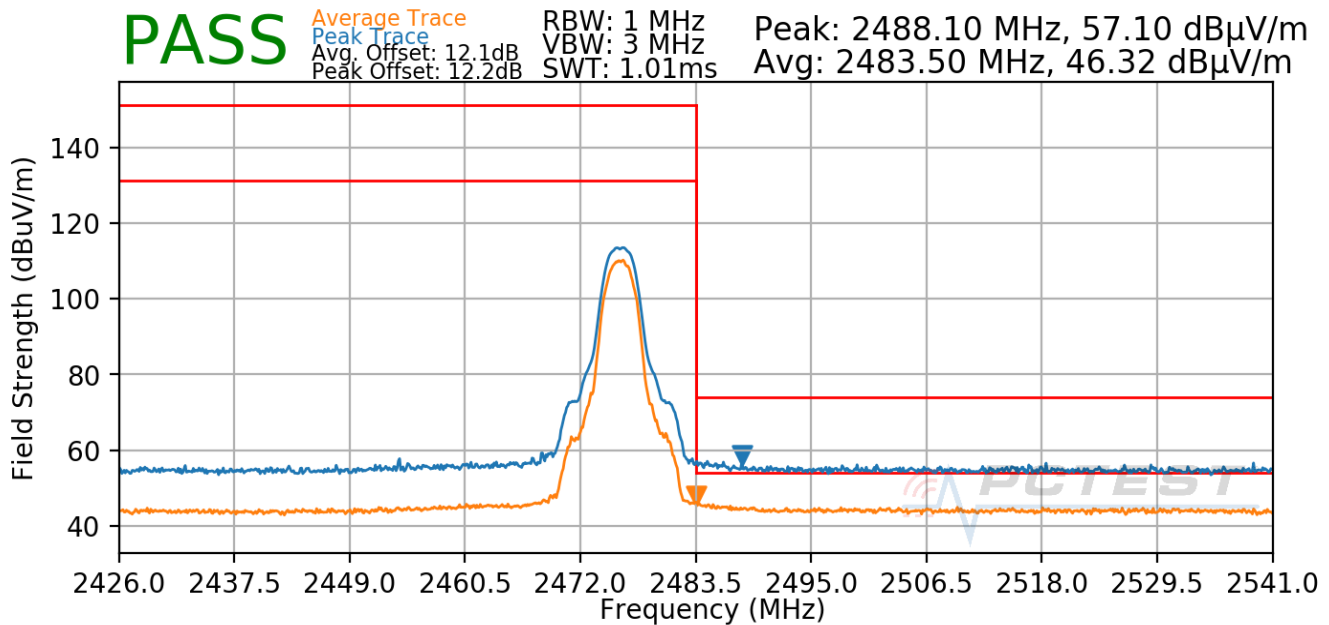
Radiated Restricted Band Edge Measurements

§15.205 §15.209; RSS-Gen [8.9]

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

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

Bluetooth Mode:	HDR4-Antenna 1a
Power Scheme:	ePA
Measurement Distance:	3 Meters
Operating Frequency:	2476MHz
Channel:	73



Plot 7-98. Radiated Restricted Upper Band Edge Measurement Antenna 1a (Average & Peak)

FCC ID: BCGA2568 IC: 579C-A2568	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080049-10.BCG	Test Dates: 6/2/2021 - 8/19/2021	EUT Type: Tablet Device	Page 90 of 104

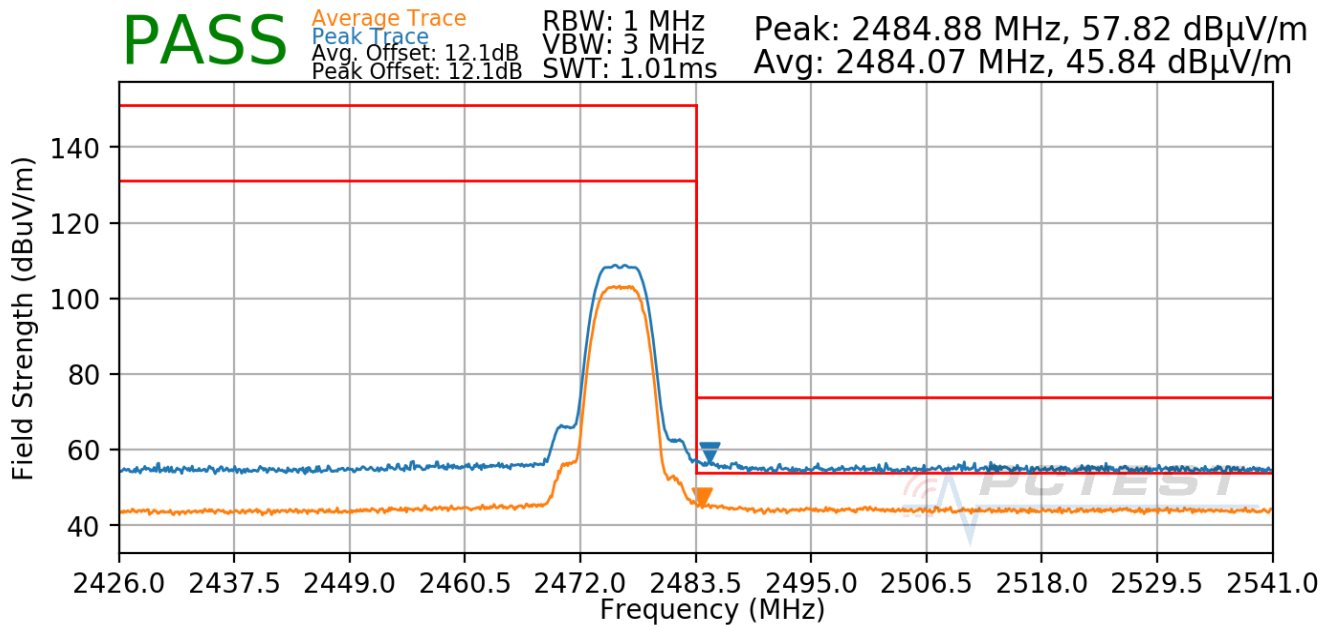
Radiated Restricted Band Edge Measurements

§15.205 §15.209; RSS-Gen [8.9]

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

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

Bluetooth Mode:	HDR8-Antenna 1a
Power Scheme:	ePA
Measurement Distance:	3 Meters
Operating Frequency:	2476MHz
Channel:	73



Plot 7-99. Radiated Restricted Upper Band Edge Measurement Antenna 1a (Average & Peak)

FCC ID: BCGA2568 IC: 579C-A2568		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080049-10.BCG	Test Dates: 6/2/2021 - 8/19/2021	EUT Type: Tablet Device	Page 91 of 104

Radiated Restricted Band Edge Measurements

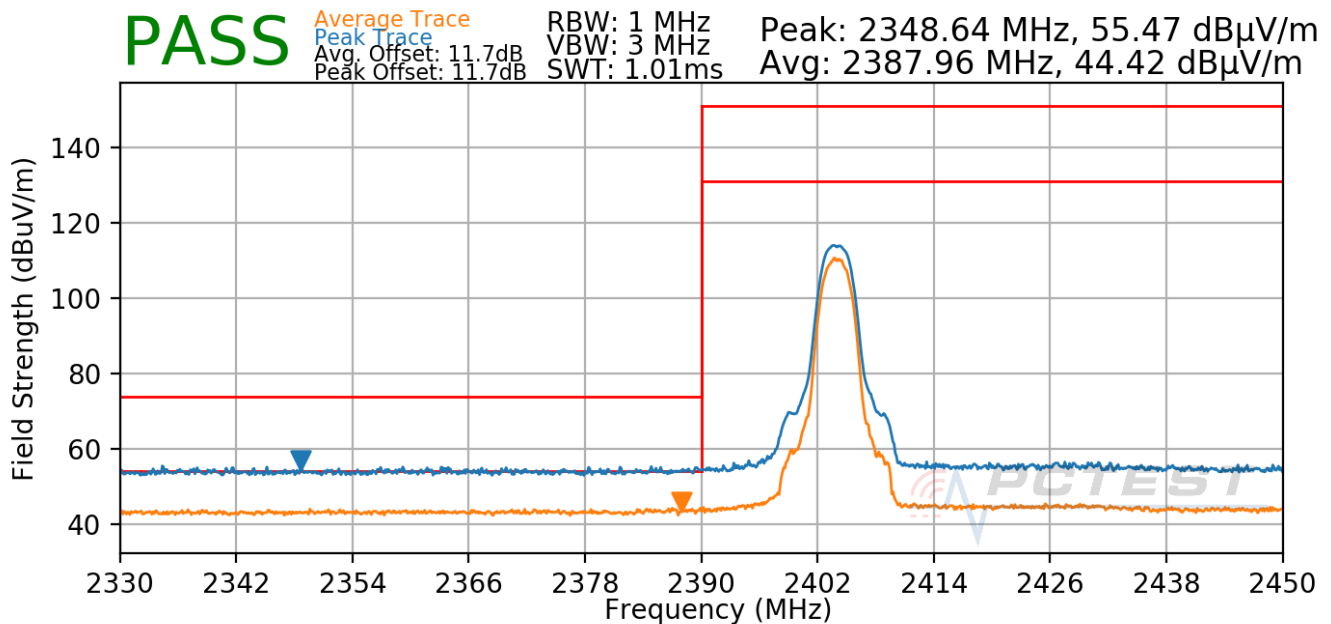
§15.205 §15.209; RSS-Gen [8.9]

TxBF

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

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

Bluetooth Mode:	HDR4-TxBF
Power Scheme:	ePA
Measurement Distance:	3 Meters
Operating Frequency:	2404MHz
Channel:	1



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

FCC ID: BCGA2568 IC: 579C-A2568	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080049-10.BCG	Test Dates: 6/2/2021 - 8/19/2021	EUT Type: Tablet Device	Page 92 of 104

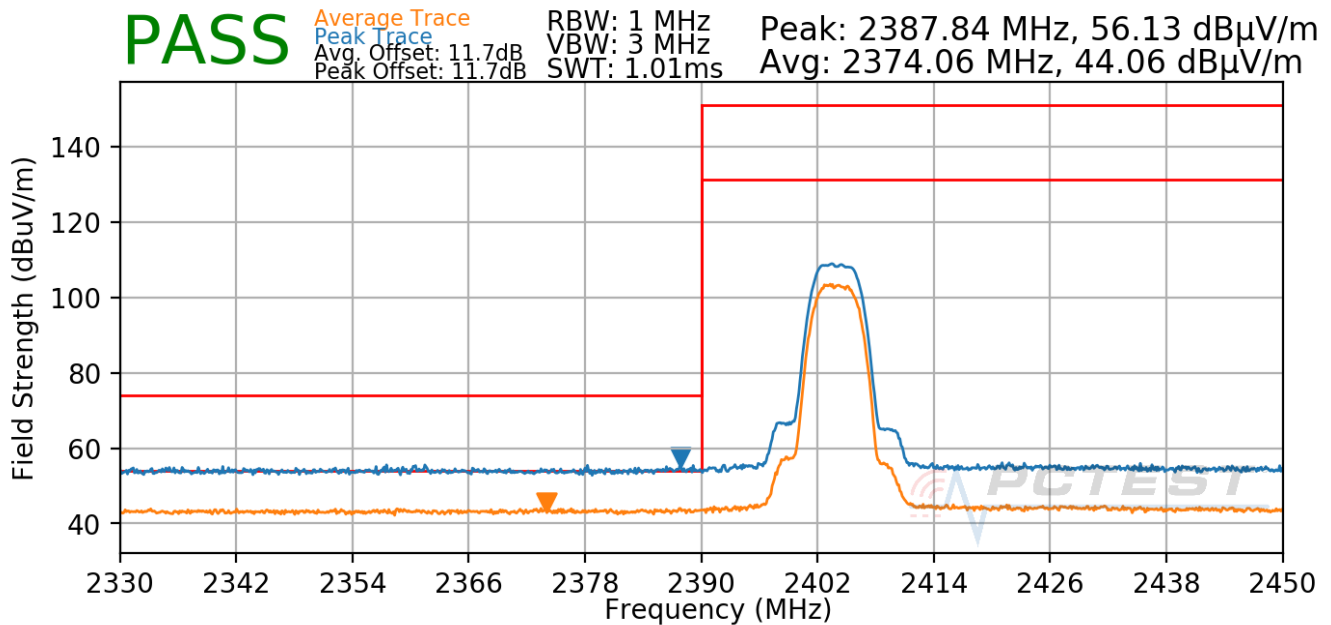
Radiated Restricted Band Edge Measurements

§15.205 §15.209; RSS-Gen [8.9]

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

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

Bluetooth Mode:	HDR8-TxBF
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: BCGA2568 IC: 579C-A2568	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080049-10.BCG	Test Dates: 6/2/2021 - 8/19/2021	EUT Type: Tablet Device	Page 93 of 104

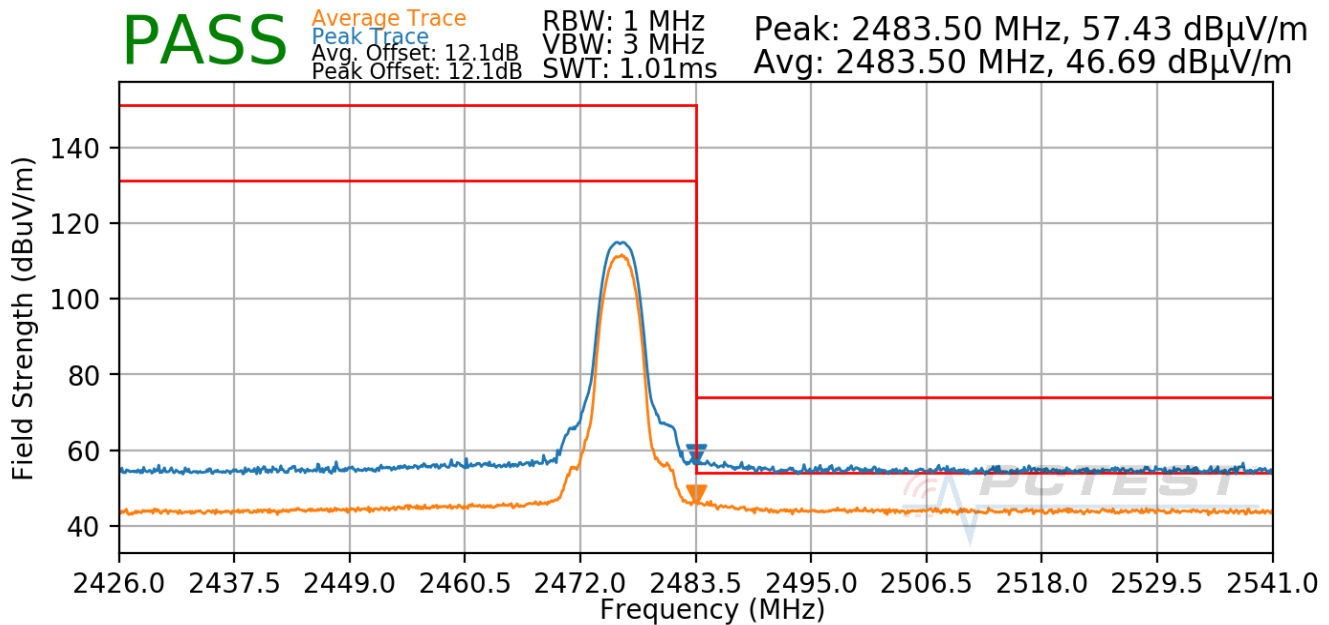
Radiated Restricted Band Edge Measurements

§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-TxBF
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: BCGA2568 IC: 579C-A2568	 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080049-10.BCG	Test Dates: 6/2/2021 - 8/19/2021	EUT Type: Tablet Device
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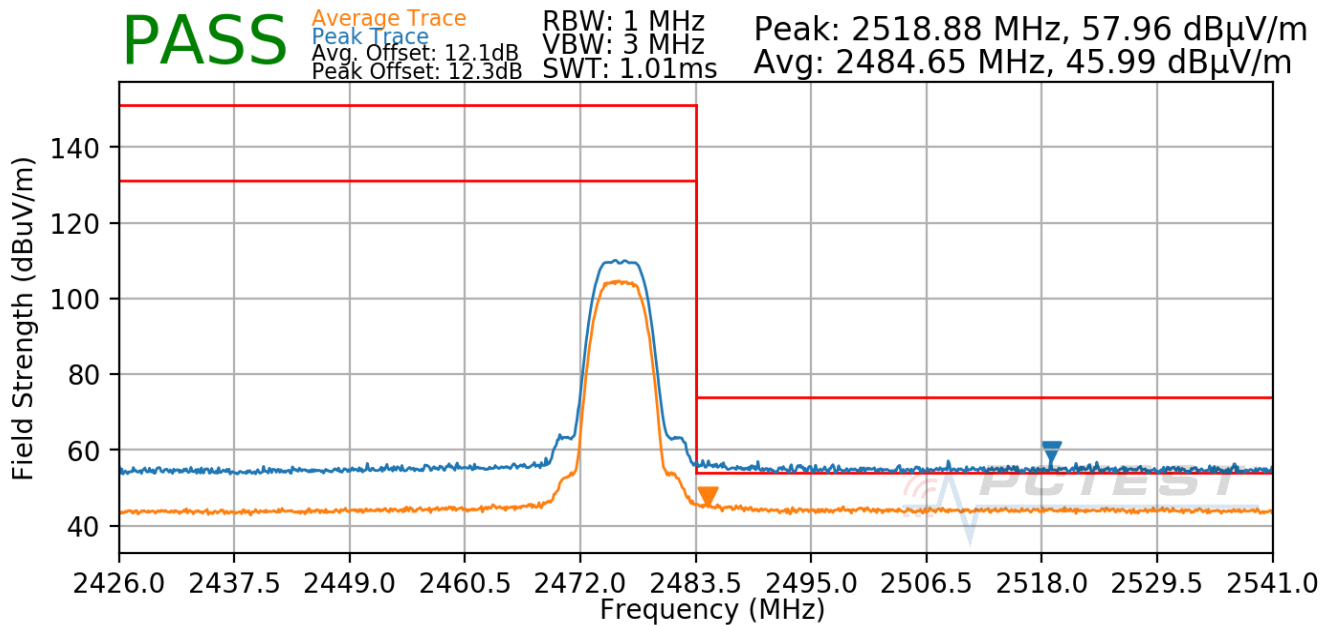
Radiated Restricted Band Edge Measurements

§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-TxBF
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: BCGA2568 IC: 579C-A2568	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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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 [μV/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: BCGA2568 IC: 579C-A2568	 PCTEST [®] Proud to be part of element	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 diagrams below.

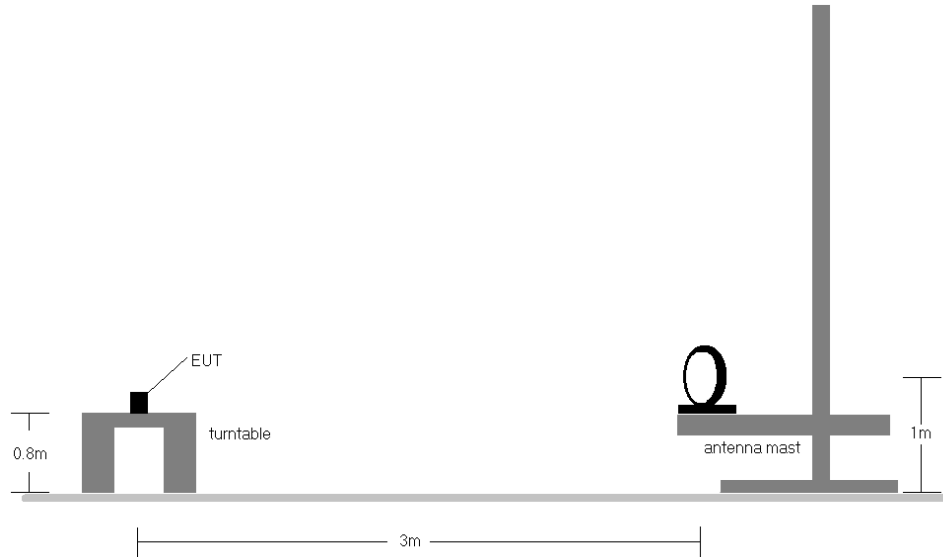


Figure 7-7. Radiated Test Setup < 30MHz

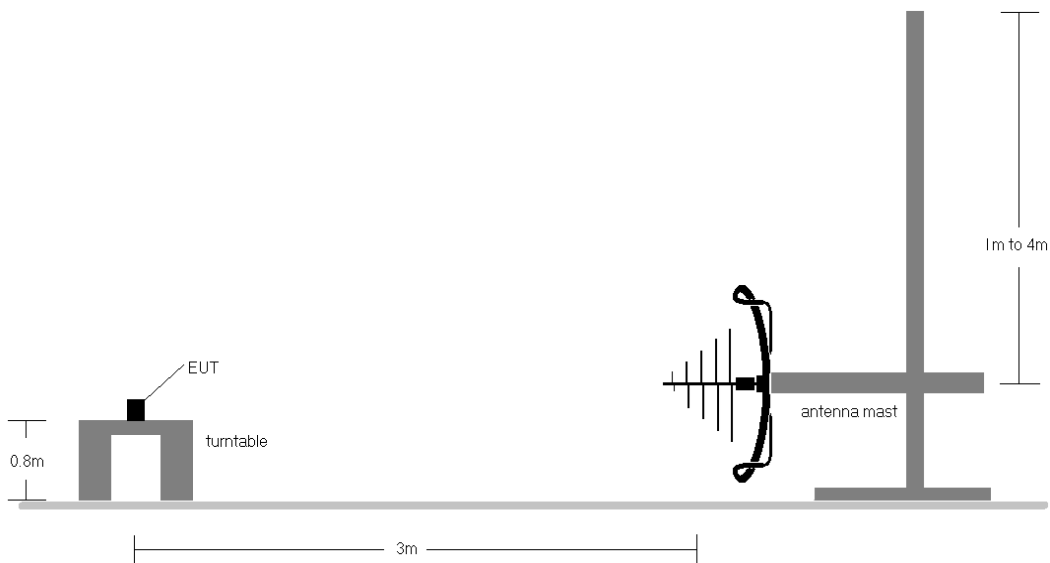


Figure 7-8. Radiated Test Setup < 1GHz

FCC ID: BCGA2568 IC: 579C-A2568	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080049-10.BCG	Test Dates: 6/2/2021 - 8/19/2021	EUT Type: Tablet Device	Page 97 of 104

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. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. There were no emissions detected in the 30MHz – 1GHz frequency range, as shown in the subsequent plots.
10. All supported modulation, antenna (including TxBF mode) and power schemes have been tested on the unit and only worst case configuration is reported.
11. 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

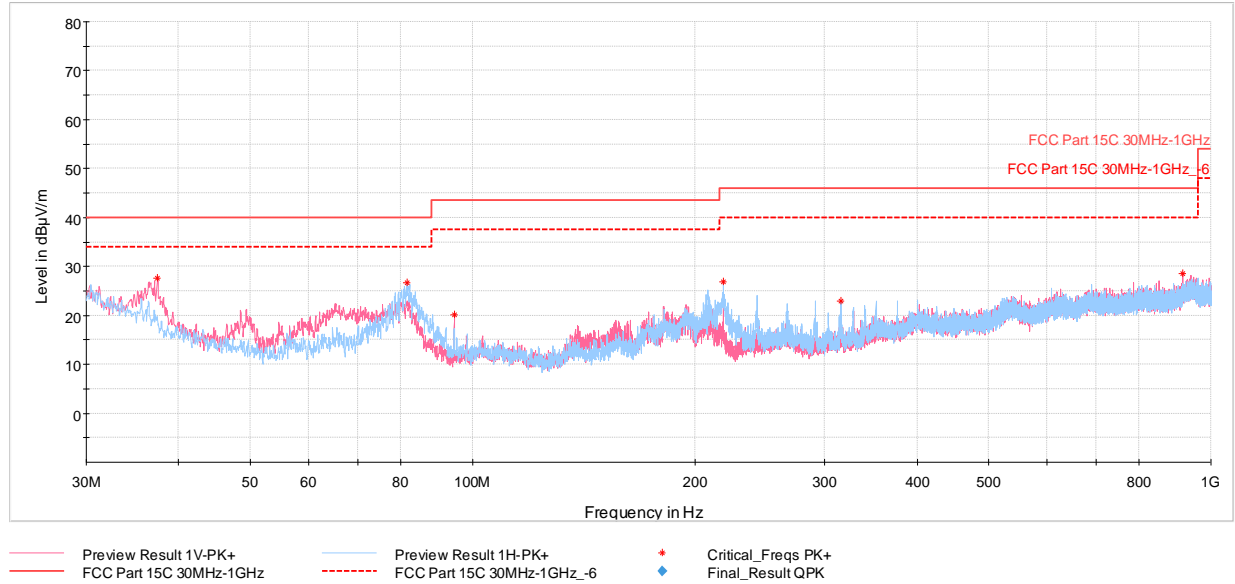
- Field Strength Level $_{[dB\mu V/m]} = \text{Analyzer Level}_{[dBm]} + 107 + \text{AFCL}_{[dB/m]}$
- $\text{AFCL}_{[dB/m]} = \text{Antenna Factor}_{[dB/m]} + \text{Cable Loss}_{[dB]} - \text{Preamplifier Gain}_{[dB]}$
- $\text{Margin}_{[dB]} = \text{Field Strength Level}_{[dB\mu V/m]} - \text{Limit}_{[dB\mu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

FCC ID: BCGA2568 IC: 579C-A2568	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209; RSS-Gen [8.9]

Antenna 3a



Plot 7-104. Radiated Spurious Emissions below 1GHz Antenna 3a (4Mbps, ePA – Ch.73 with AC/DC Adapter)

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]
37.47	Max-Peak	V	100	92	-63.69	-15.79	27.52	40.00	-12.48
81.51	Max-Peak	H	250	134	-59.34	-20.98	26.68	40.00	-13.32
94.55	Max-Peak	V	100	127	-66.56	-20.36	20.08	43.52	-23.44
218.57	Max-Peak	H	100	185	-64.00	-16.17	26.83	46.02	-19.19
315.62	Max-Peak	H	100	31	-71.20	-12.93	22.87	46.02	-23.15
916.00	Max-Peak	V	100	15	-78.25	-0.23	28.52	46.02	-17.50

Table 7-24. Radiated Spurious Emissions below 1GHz Antenna 3A (4Mbps, ePA – Ch.73 with AC/DC Adapter)

FCC ID: BCGA2568 IC: 579C-A2568	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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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 (dBμV)	
	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, Section 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

FCC ID: BCGA2568 IC: 579C-A2568	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080049-10.BCG	Test Dates: 6/2/2021 - 8/19/2021	EUT Type: Tablet Device	Page 100 of 104

Test Setup

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

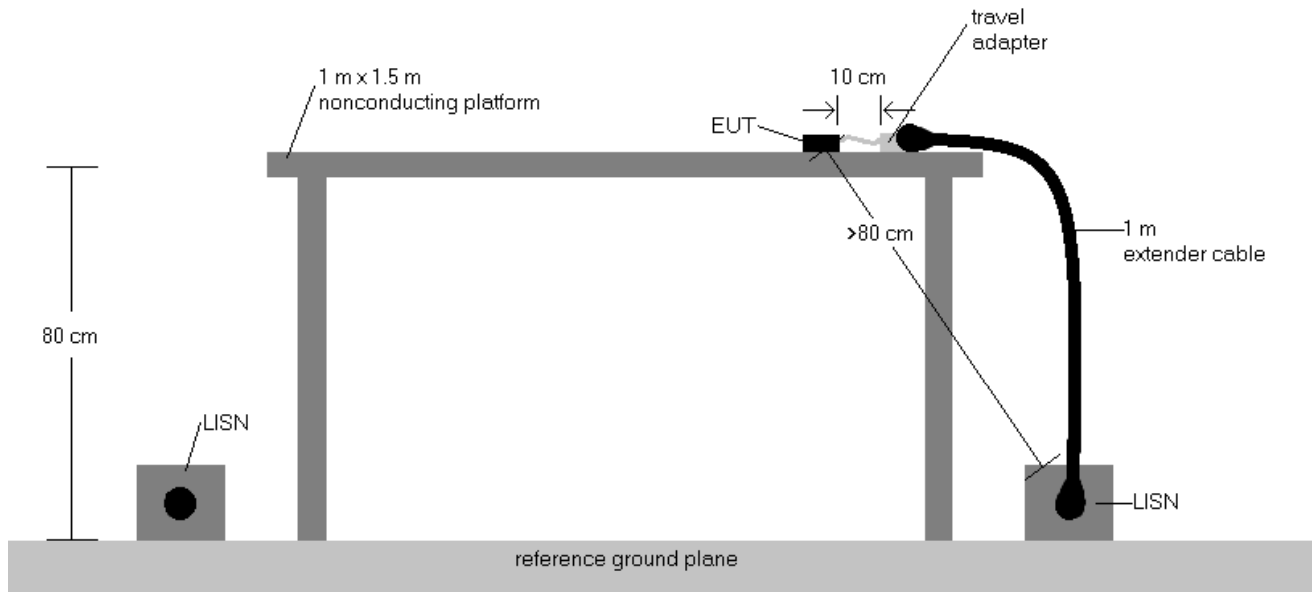
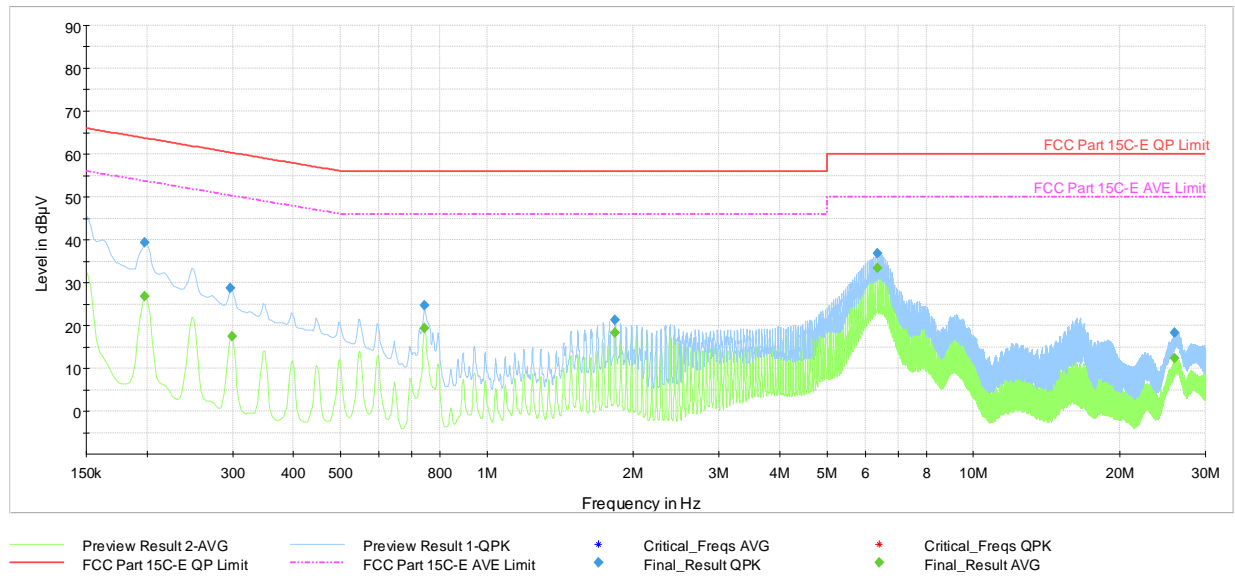


Figure 7-9. Test Instrument & Measurement Setup

Test Notes

- 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.
- Both configurations below were investigated, and the worst case has been reported.
 - EUT powered by AC/DC adaptor via USB-C cable with wire charger
 - EUT powered by host PC via USB-C cable with wire charger
- The limit for an intentional radiator from 150kHz to 30MHz are specified in Part 15.207 and RSS-Gen(8.8).
- $\text{Corr. (dB)} = \text{Cable loss (dB)} + \text{LISN insertion factor (dB)}$
- $\text{QP/AV Level (dB}\mu\text{V)} = \text{QP/AV Analyzer/Receiver Level (dB}\mu\text{V)} + \text{Correction Factor (dB)}$
- $\text{Margin (dB)} = \text{QP/AV Level (dB}\mu\text{V)} - \text{QP/AV Limit (dB}\mu\text{V)}$
- Traces shown in plot are made using quasi peak and average detectors.
- Deviations to the Specifications: None.

FCC ID: BCGA2568 IC: 579C-A2568	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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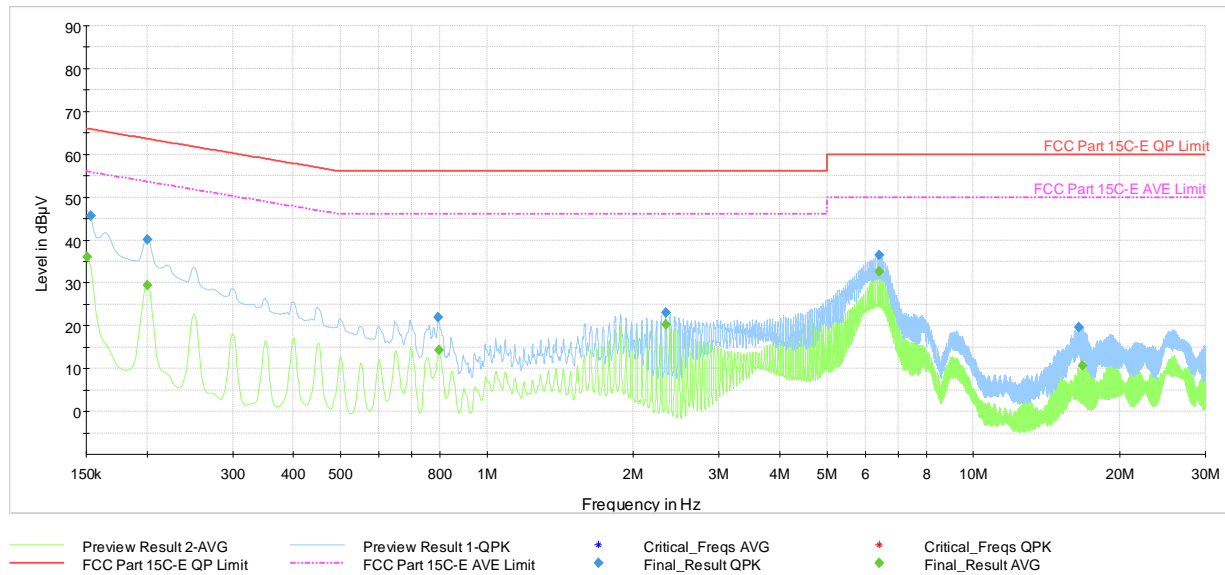


Plot 7-105. AC Line Conducted Plot with Bluetooth HDR Antenna 3a (L1, 4Mbps ePA - Ch.73 with Laptop)

Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.198	FINAL	—	26.91	53.69	-26.78	L1	GND
0.198	FINAL	39.4	—	63.69	-24.26	L1	GND
0.297	FINAL	28.7	—	60.33	-31.61	L1	GND
0.299	FINAL	—	17.48	50.26	-32.79	L1	GND
0.745	FINAL	—	19.35	46.00	-26.65	L1	GND
0.745	FINAL	24.7	—	56.00	-31.26	L1	GND
1.834	FINAL	21.2	—	56.00	-34.82	L1	GND
1.834	FINAL	—	18.39	46.00	-27.61	L1	GND
6.345	FINAL	36.7	—	60.00	-23.28	L1	GND
6.345	FINAL	—	33.51	50.00	-16.49	L1	GND
25.877	FINAL	—	12.31	50.00	-37.69	L1	GND
25.877	FINAL	18.4	—	60.00	-41.60	L1	GND

Table 7-26. AC Line Conducted Data with Bluetooth HDR Antenna 3a (L1, 4Mbps ePA - Ch.73 with Laptop)

FCC ID: BCGA2568 IC: 579C-A2568		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080049-10.BCG	Test Dates: 6/2/2021 - 8/19/2021	EUT Type: Tablet Device	Page 102 of 104



Plot 7-106. AC Line Conducted Plot with Bluetooth HDR Antenna 3a (N, 4Mbps ePA - Ch.73 with Laptop)

Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.151	FINAL	—	35.95	55.96	-20.01	N	GND
0.153	FINAL	45.6	—	65.84	-20.24	N	GND
0.200	FINAL	—	29.36	53.60	-24.24	N	GND
0.200	FINAL	40.1	—	63.60	-23.54	N	GND
0.794	FINAL	22.0	—	56.00	-34.01	N	GND
0.797	FINAL	—	14.32	46.00	-31.68	N	GND
2.331	FINAL	23.0	—	56.00	-32.99	N	GND
2.331	FINAL	—	20.21	46.00	-25.79	N	GND
6.395	FINAL	36.4	—	60.00	-23.57	N	GND
6.395	FINAL	—	32.67	50.00	-17.33	N	GND
16.504	FINAL	19.6	—	60.00	-40.41	N	GND
16.751	FINAL	—	10.73	50.00	-39.27	N	GND

Table 7-27. AC Line Conducted Data with Bluetooth HDR Antenna 3a (N, 4Mbps ePA - Ch.73 with Laptop)

FCC ID: BCGA2568 IC: 579C-A2568		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080049-10.BCG	Test Dates: 6/2/2021 - 8/19/2021	EUT Type: Tablet Device	Page 103 of 104

8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Apple Tablet Device FCC ID: BCGA2568 and IC: 579C-A2568** 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.

FCC ID: BCGA2568 IC: 579C-A2568		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080049-10.BCG	Test Dates: 6/2/2021 - 8/19/2021	EUT Type: Tablet Device	Page 104 of 104