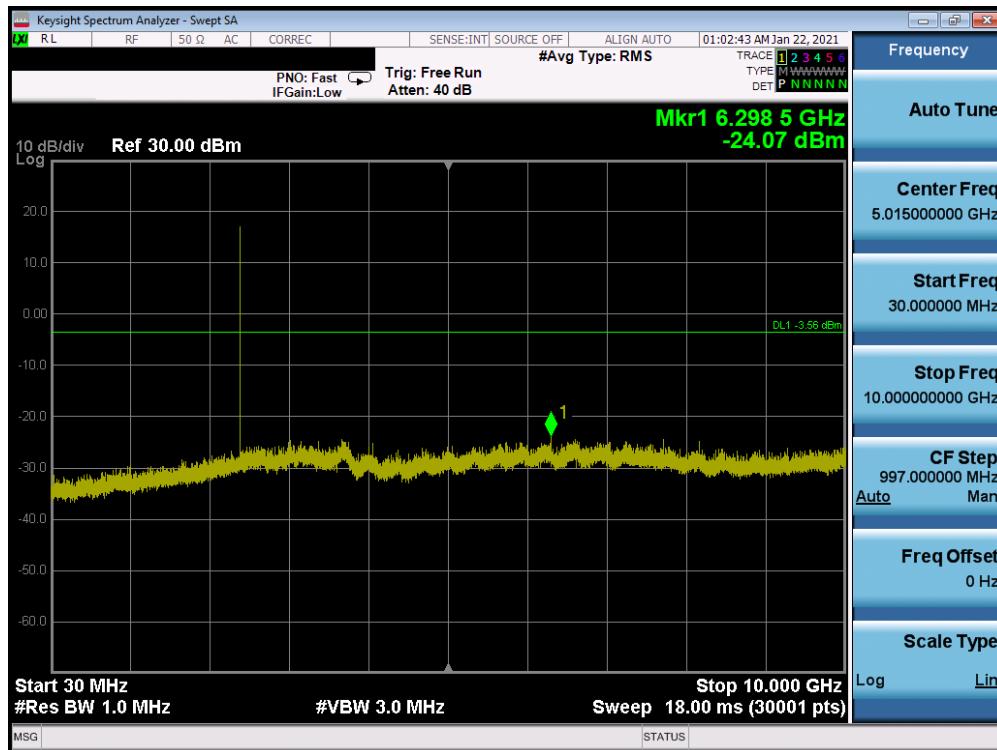
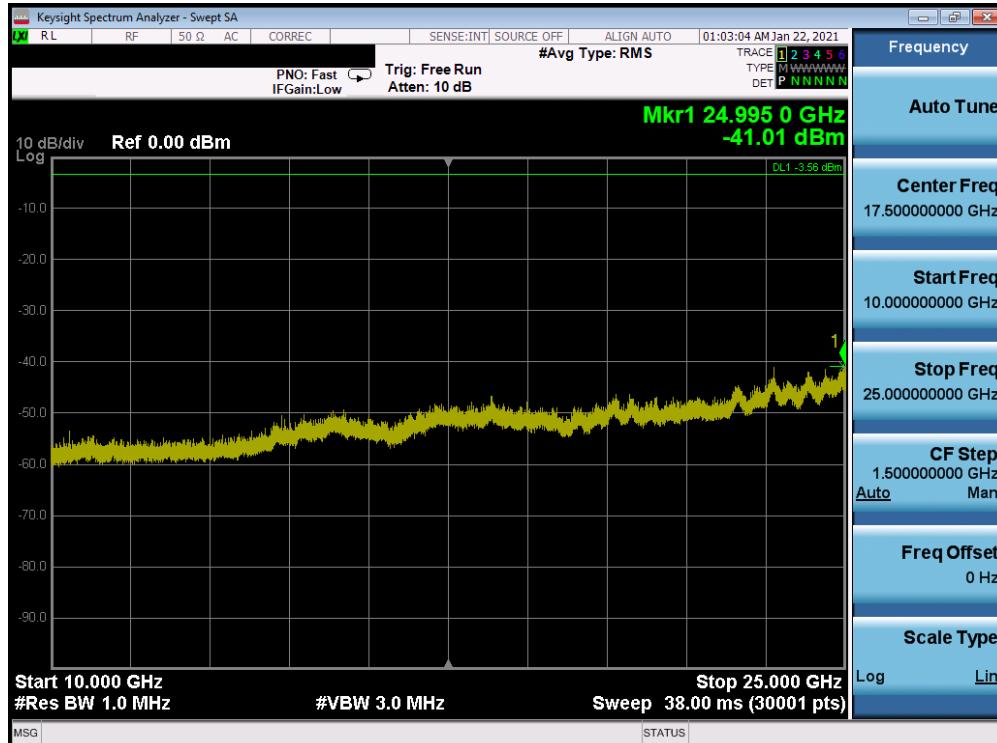


Antenna 4a

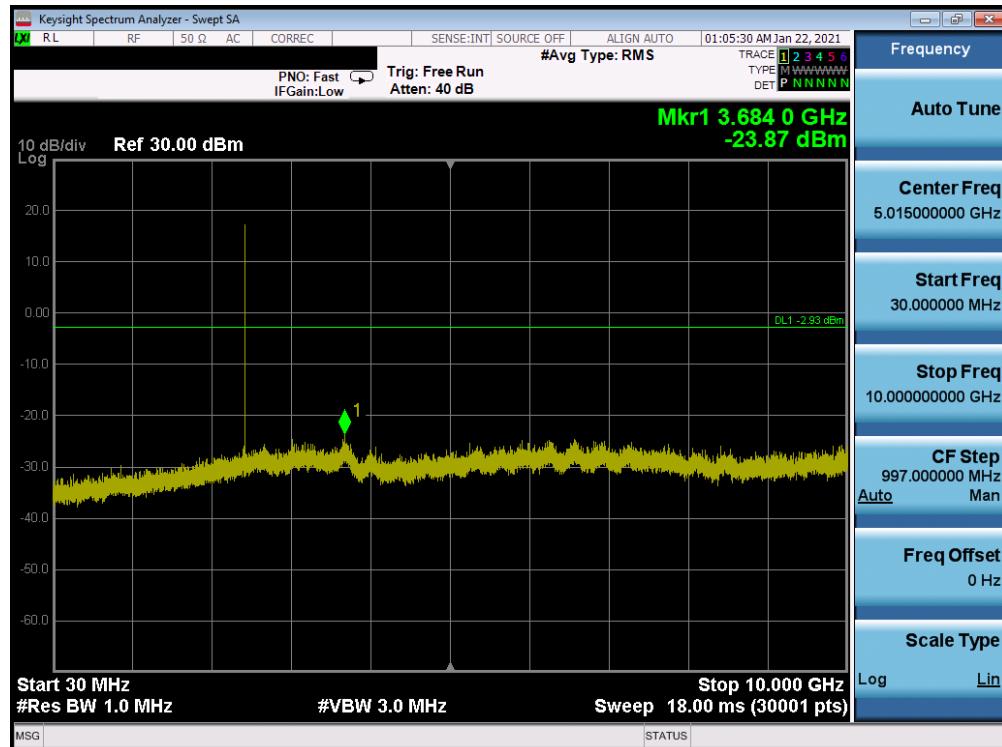


Plot 7-69. Conducted Spurious Plot Antenna 4a (Bluetooth (LE), 1Mbps, ePA – Ch. 0)

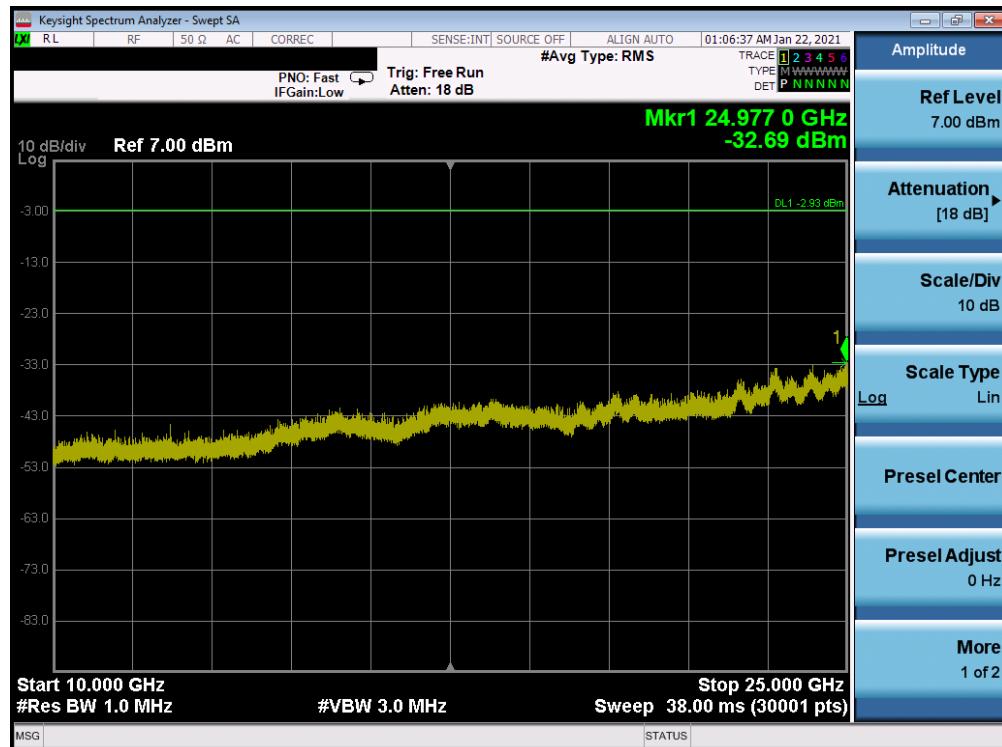


Plot 7-70. Conducted Spurious Plot Antenna 4a (Bluetooth (LE), 1Mbps, ePA – Ch. 0)

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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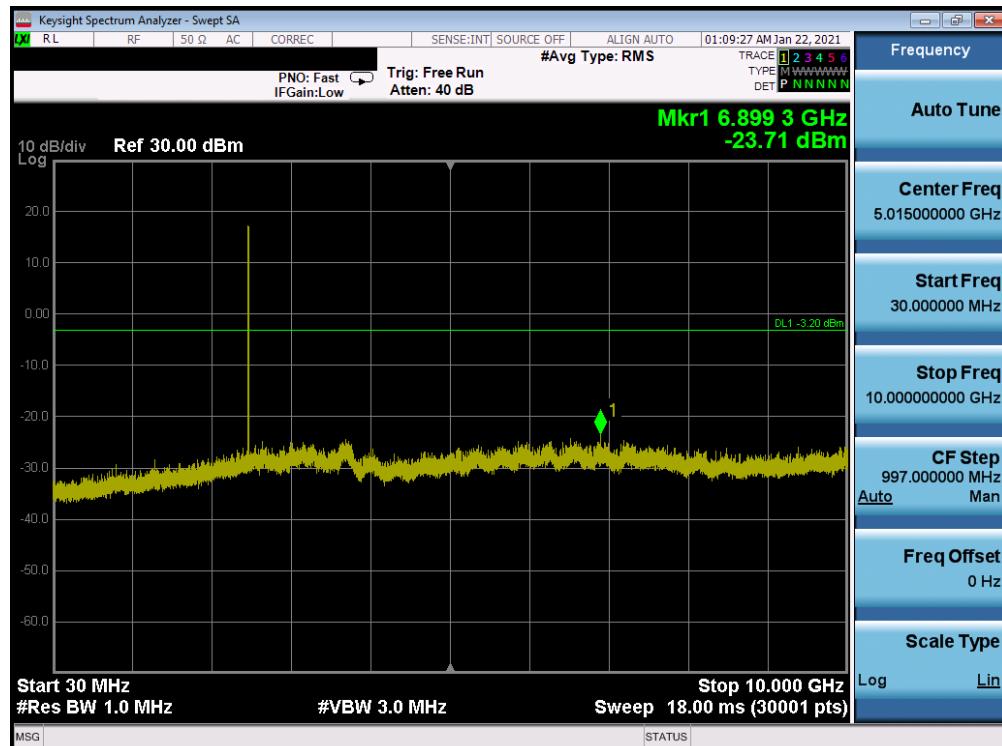


Plot 7-71. Conducted Spurious Plot Antenna 4a (Bluetooth (LE), 1Mbps, ePA – Ch. 19)

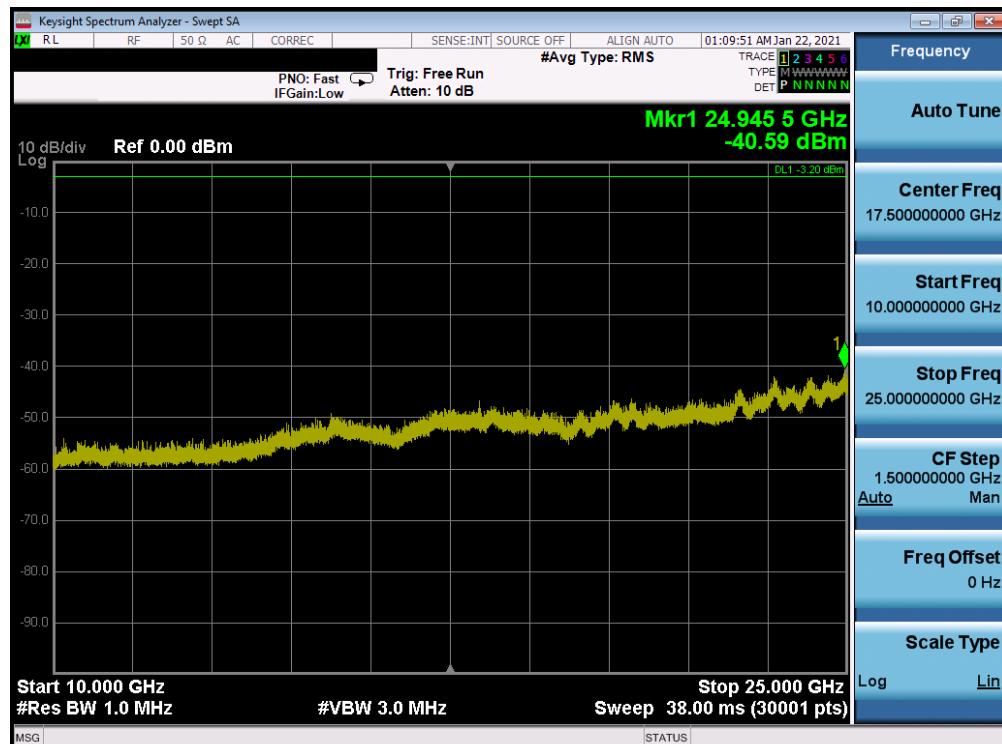


Plot 7-72. Conducted Spurious Plot Antenna 4a (Bluetooth (LE), 1Mbps, ePA – Ch. 19)

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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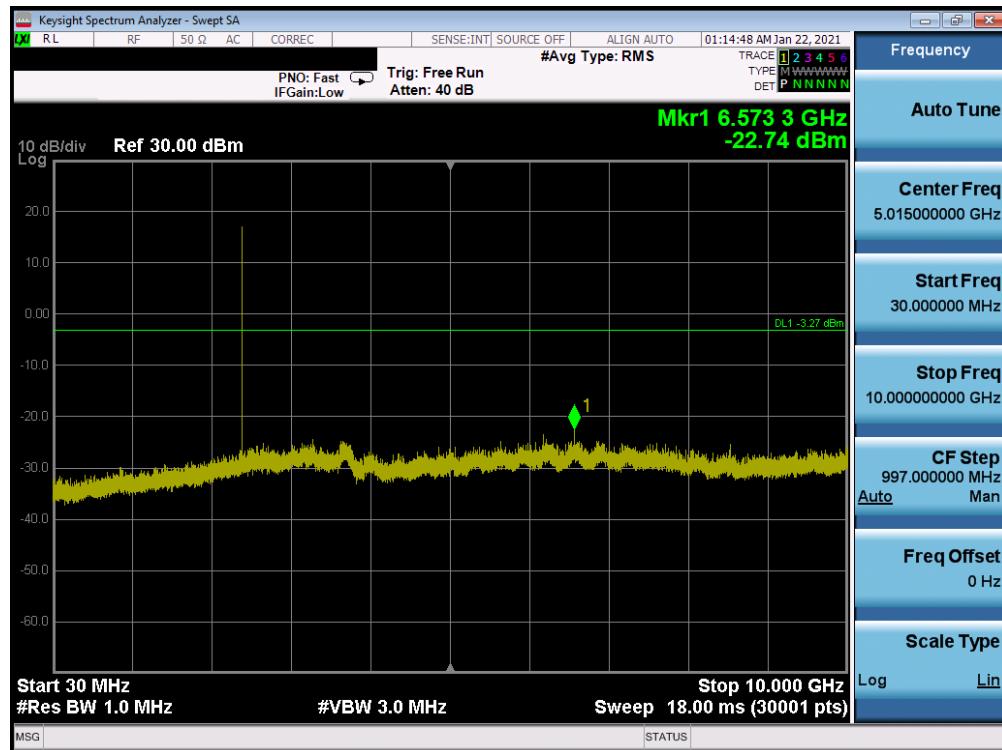
Plot 7-73. Conducted Spurious Plot Antenna 4a (Bluetooth (LE), 1Mbps, ePA – Ch. 39)



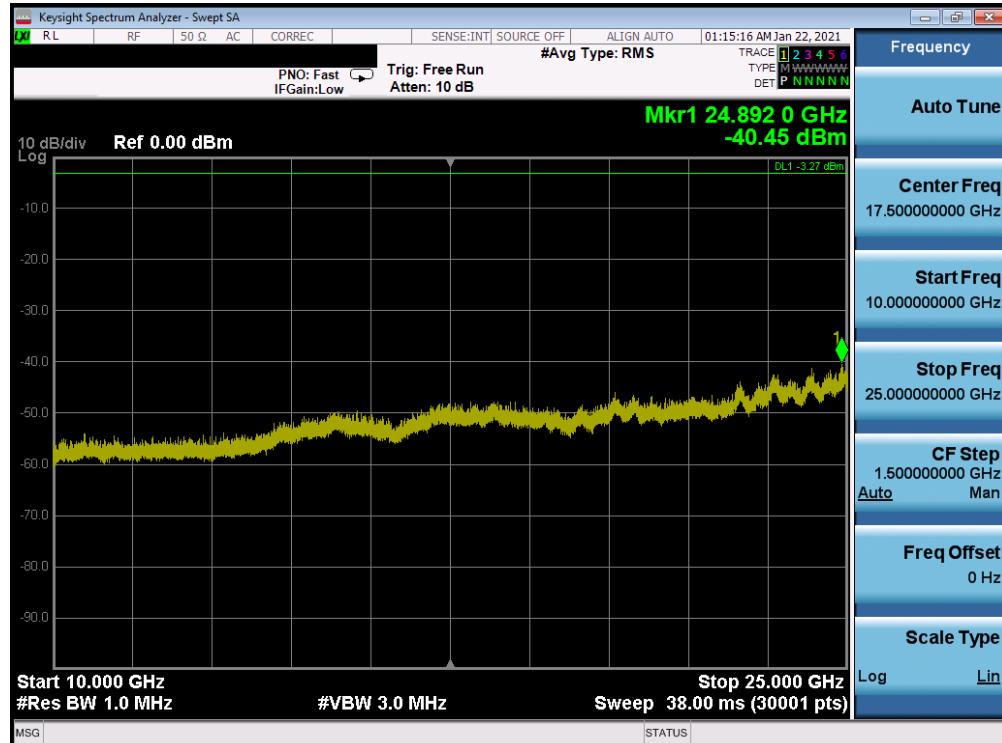
Plot 7-74. Conducted Spurious Plot Antenna 4a (Bluetooth (LE), 1Mbps, ePA – Ch. 39)

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-12.BCG	Test Dates: 12/15/2020-2/25/2021	EUT Type: Tablet Device	Page 64 of 101

Antenna 2a

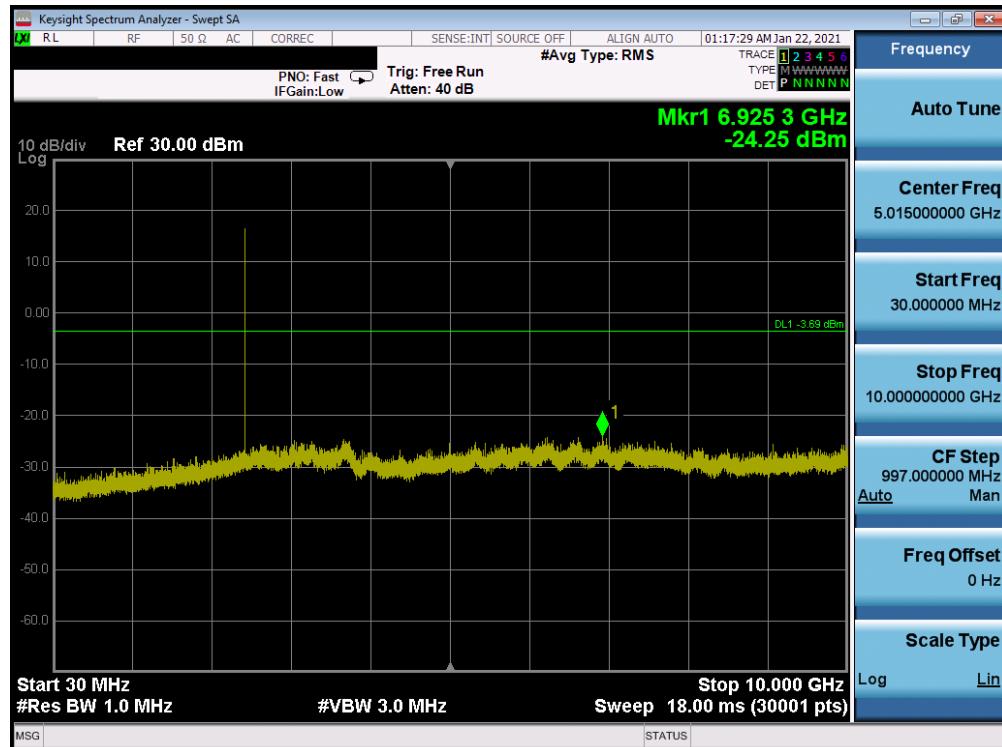


Plot 7-75. Conducted Spurious Plot Antenna 2a (Bluetooth (LE), 1Mbps, ePA – Ch. 0)

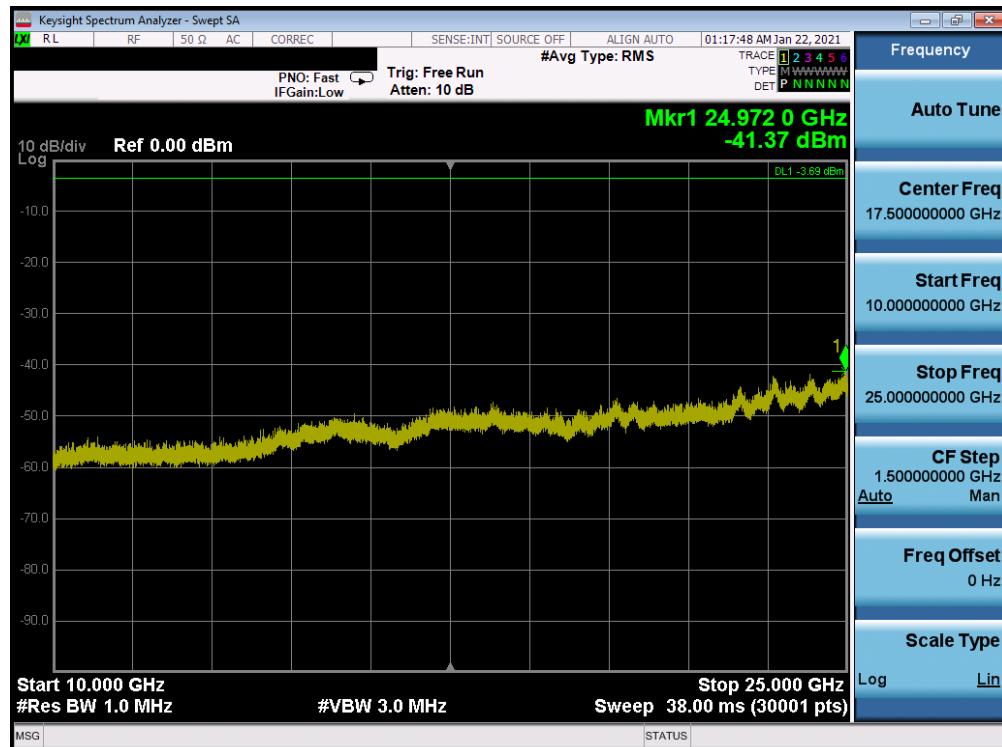


Plot 7-76. Conducted Spurious Plot Antenna 2a (Bluetooth (LE), 1Mbps, ePA – Ch. 0)

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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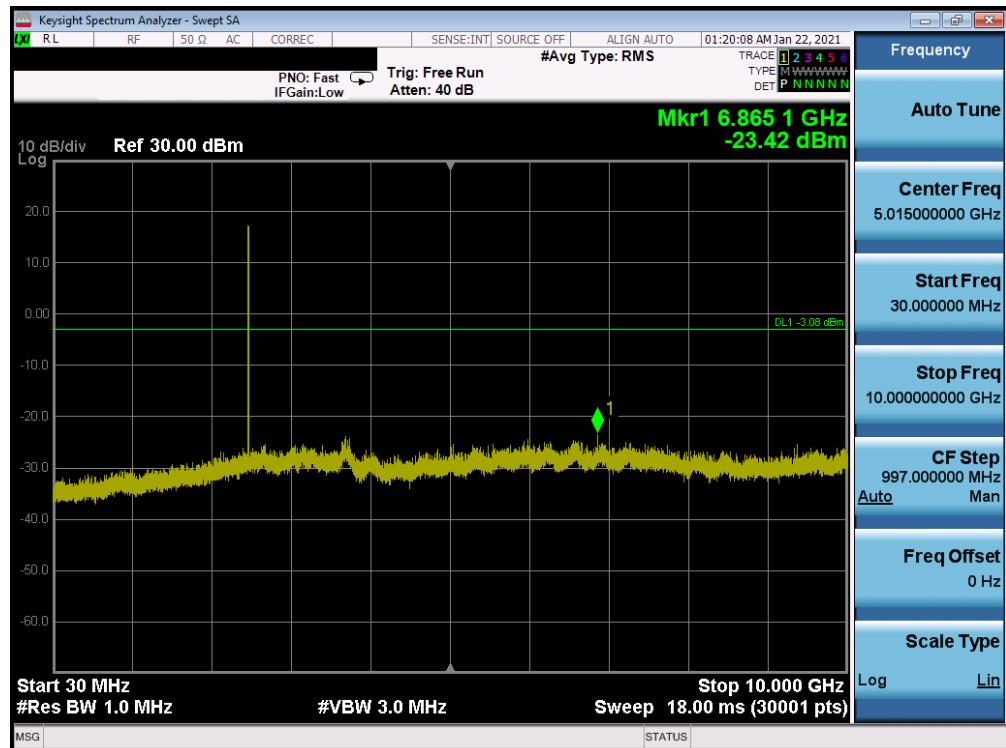


Plot 7-77. Conducted Spurious Plot Antenna 2a (Bluetooth (LE), 1Mbps, ePA – Ch. 19)

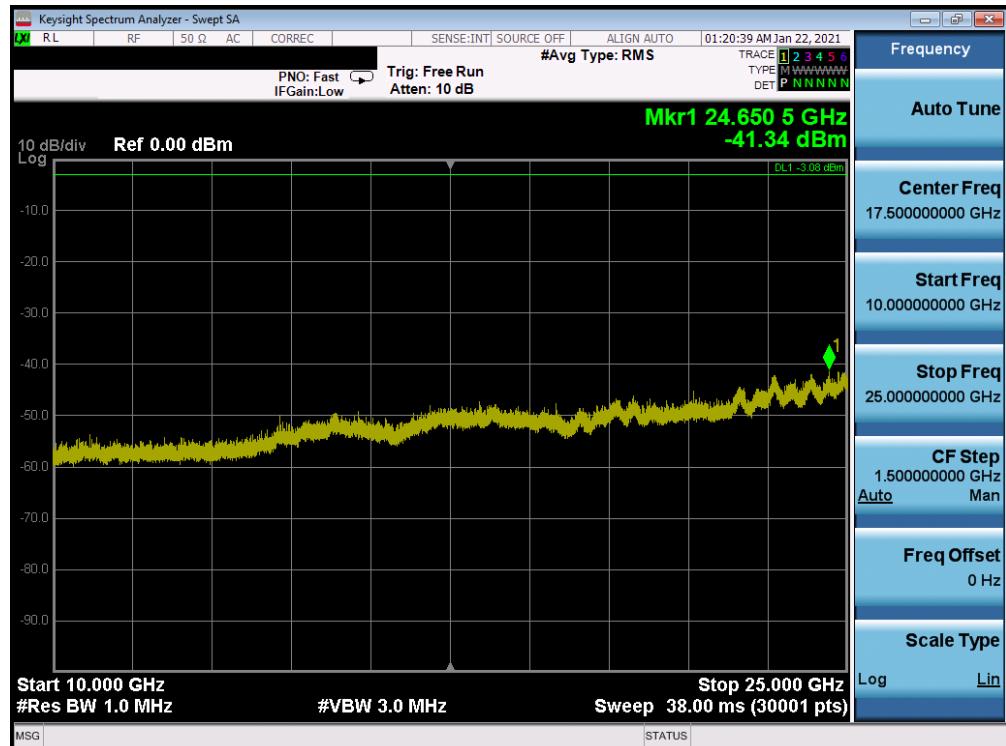


Plot 7-78. Conducted Spurious Plot Antenna 2a (Bluetooth (LE), 1Mbps, ePA – Ch. 19)

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-79. Conducted Spurious Plot Antenna 2a (Bluetooth (LE), 1Mbps, ePA – Ch. 39)



Plot 7-80. Conducted Spurious Plot Antenna 2a (Bluetooth (LE), 1Mbps, ePA – Ch. 39)

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-12.BCG	Test Dates: 12/15/2020-2/25/2021	EUT Type: Tablet Device	Page 67 of 101

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 – 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 $\geq 2 \times$ 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.

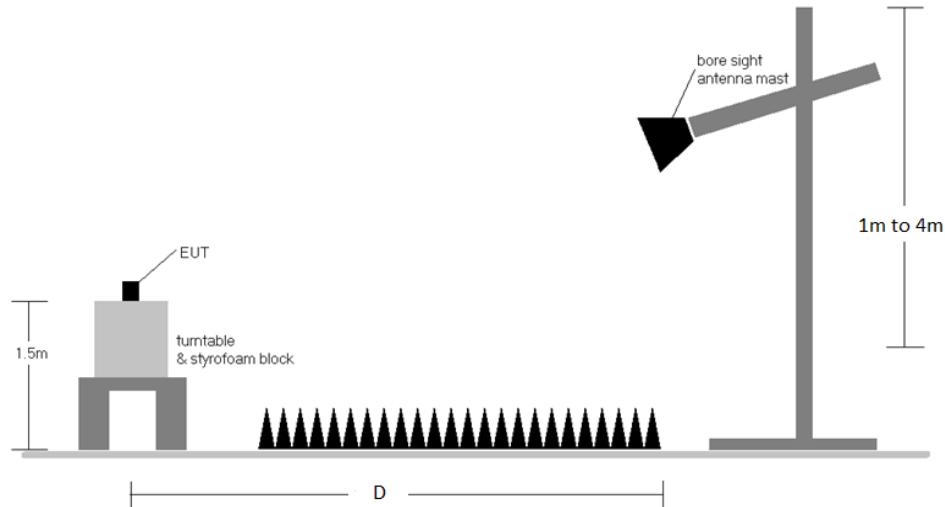


Figure 7-6. Radiated Test Setup >1GHz

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 modulations, antennas (including TxBF mode) and power schemes have been tested on the unit and only the 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

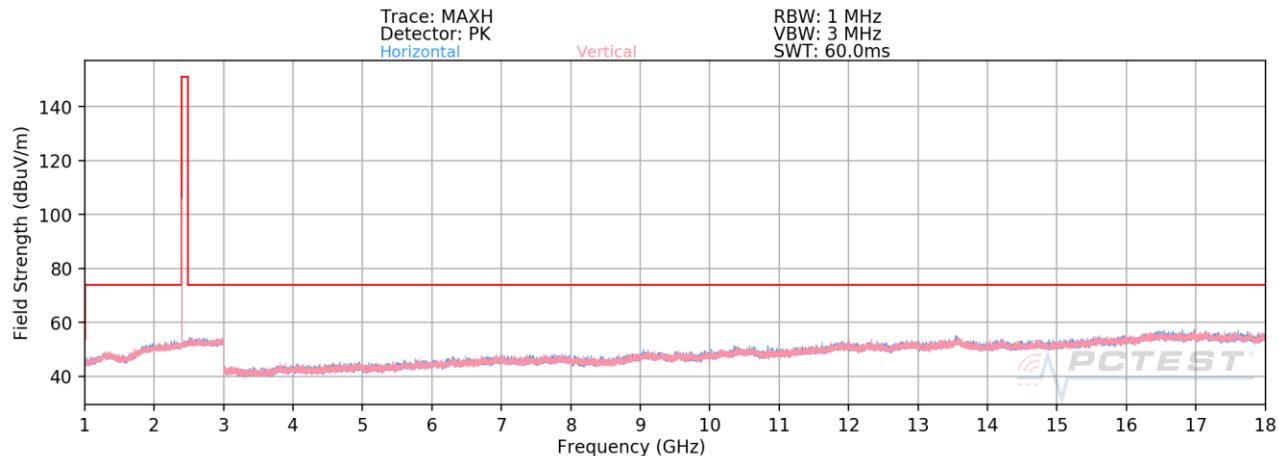
- The amplitude offset shown in the radiated restricted band edge plots in Section 0 was calculated using the formula:
Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

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Radiated Spurious Emission Measurements (Above 1GHz)

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

Antenna 4a



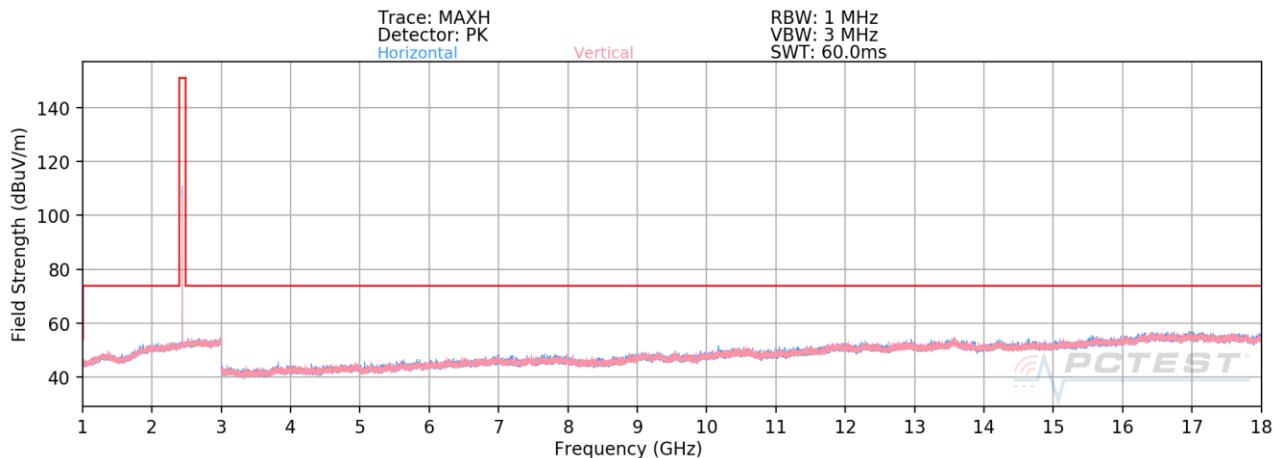
Plot 7-81. Radiated Spurious Plot Above 1GHz Antenna 4a (1Mbps, ePA – Ch. 0)

Bluetooth Mode:	LE
Data Rate:	1Mbps
Distance of Measurements:	3 Meters
Operating Frequency:	2402MHz
Channel:	0

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]
4804.00	Avg	H	-	-	-80.94	7.86	33.92	53.98	-20.06
4804.00	Peak	H	-	-	-69.11	7.86	45.75	73.98	-28.23
12010.00	Avg	H	-	-	-83.30	16.81	40.51	53.98	-13.47
12010.00	Peak	H	-	-	-71.78	16.81	52.03	73.98	-21.95

Table 7-14. Radiated Measurements Antenna 4a

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Test Report S/N: 1C2101020002-12.BCG	Test Dates: 12/15/2020-2/25/2021	EUT Type: Tablet Device			



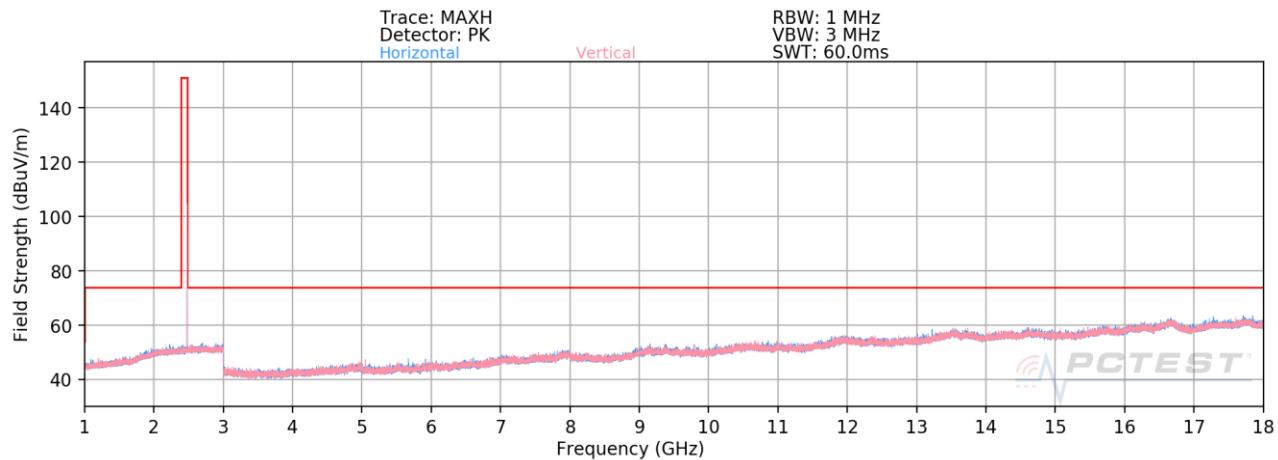
Plot 7-82. Radiated Spurious Plot Above 1GHz Antenna 4a (1Mbps, ePA – Ch. 19)

Bluetooth Mode: LE
Data Rate: 1Mbps
Distance of Measurements: 3 Meters
Operating Frequency: 2440MHz
Channel: 19

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]
4880.00	Avg	H	-	-	-81.06	7.83	33.77	53.98	-20.21
4880.00	Peak	H	-	-	-68.86	7.83	45.97	73.98	-28.01
7320.00	Avg	H	-	-	-82.07	10.75	35.68	53.98	-18.30
7320.00	Peak	H	-	-	-70.32	10.75	47.43	73.98	-26.55
12200.00	Avg	H	-	-	-84.12	16.97	39.85	53.98	-14.13
12200.00	Peak	H	-	-	-72.60	16.97	51.37	73.98	-22.61

Table 7-15. Radiated Measurements Antenna 4a

FCC ID: BCGA2301 IC: 579C-A2301	 PCTEST® Proud to be part of  MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
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Plot 7-83. Radiated Spurious Plot Above 1GHz Antenna 4a (1Mbps ePA – Ch. 39)

Bluetooth Mode: LE
Data Rate: 1Mbps
Distance of Measurements: 3 Meters
Operating Frequency: 2480MHz
Channel: 39

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]
4960.00	Avg	H	-	-	-81.74	8.74	34.00	53.98	-19.98
4960.00	Peak	H	-	-	-70.07	8.74	45.67	73.98	-28.31
7440.00	Avg	H	-	-	-83.07	12.09	36.02	53.98	-17.96
7440.00	Peak	H	-	-	-71.89	12.09	47.20	73.98	-26.78
12400.00	Avg	H	-	-	-83.89	17.21	40.32	53.98	-13.66
12400.00	Peak	H	-	-	-72.89	17.21	51.32	73.98	-22.66

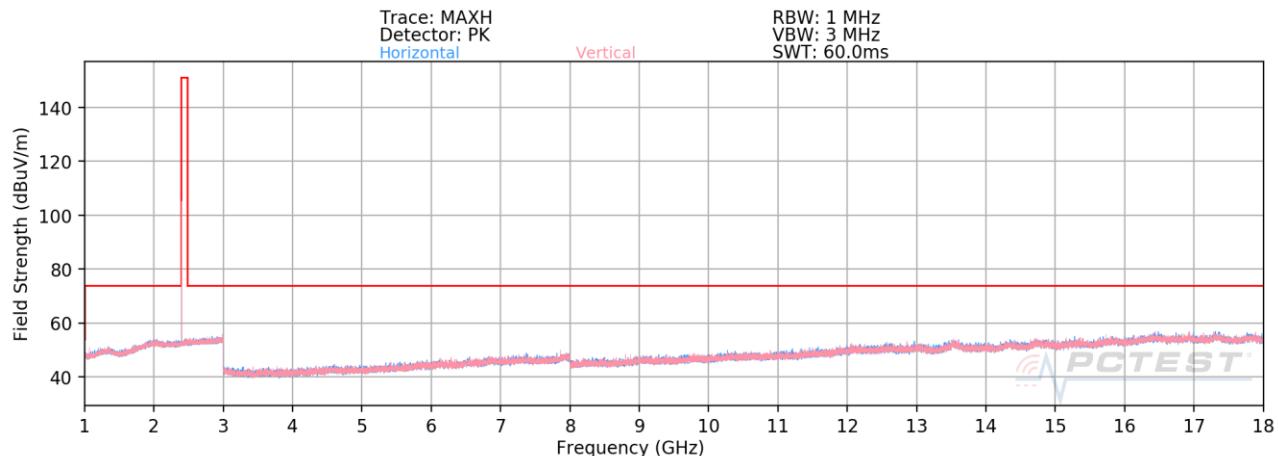
Table 7-16. Radiated Measurements Antenna 4a

FCC ID: BCGA2301 IC: 579C-A2301	 PCTEST® Proud to be part of 			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-12.BCG	Test Dates: 12/15/2020-2/25/2021	EUT Type: Tablet Device			

Radiated Spurious Emission Measurements (1 – 18GHz)

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

Antenna 2a



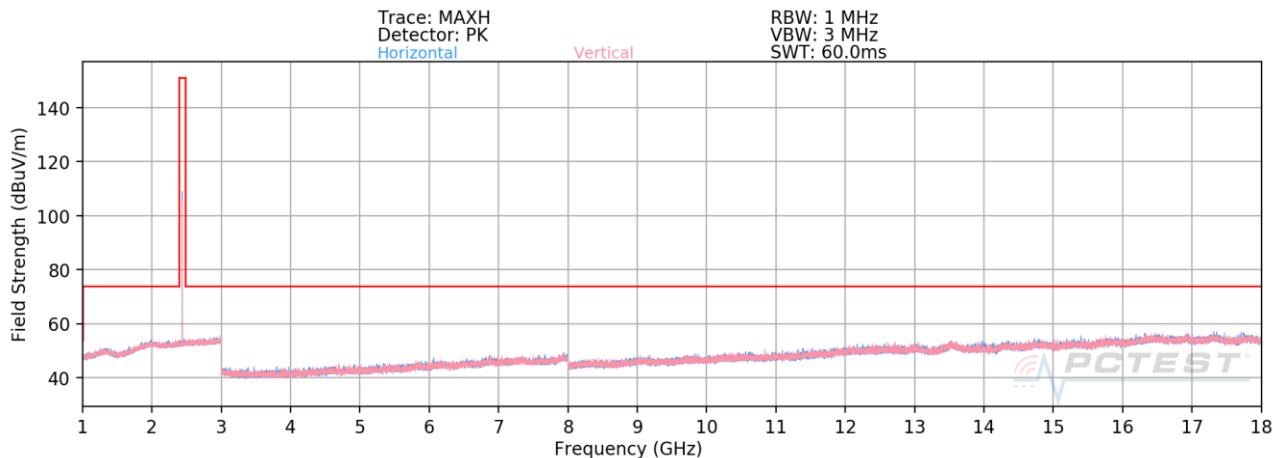
Plot 7-84. Radiated Spurious Plot Above 1GHz Antenna 2a (1Mbps, ePA – Ch. 0)

Bluetooth Mode: LE
 Data Rate: 1Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 2402MHz
 Channel: 0

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]
4804.00	Avg	H	-	-	-77.83	4.34	33.51	53.98	-20.47
4804.00	Peak	H	-	-	-66.61	4.34	44.73	73.98	-29.25
12010.00	Avg	H	-	-	-84.41	17.00	39.59	53.98	-14.39
12010.00	Peak	H	-	-	-73.03	17.00	50.97	73.98	-23.01

Table 7-17. Radiated Measurements Antenna 2a

FCC ID: BCGA2301 IC: 579C-A2301	 PCTEST® Proud to be part of 			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-12.BCG	Test Dates: 12/15/2020-2/25/2021	EUT Type: Tablet Device			



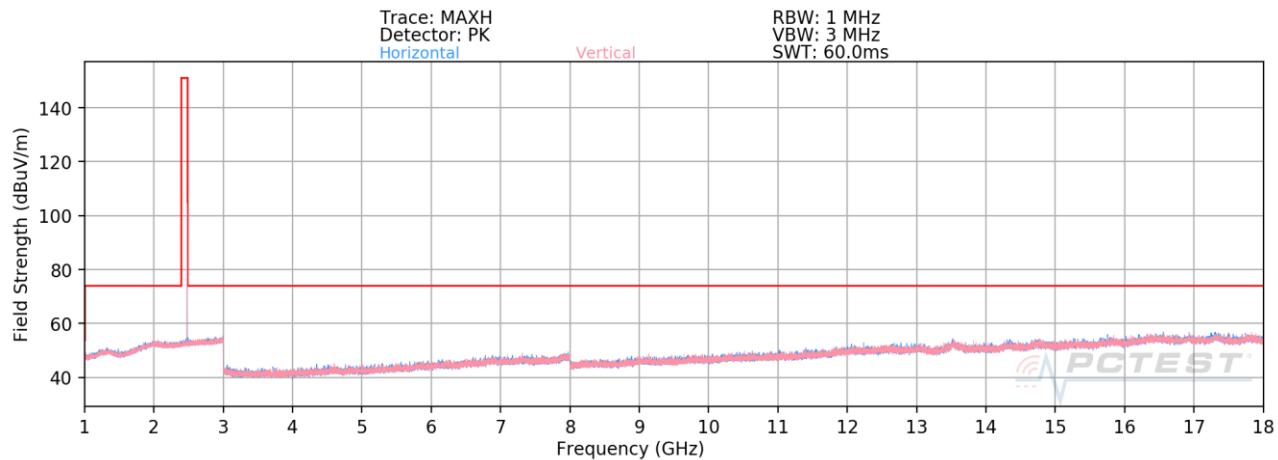
Plot 7-85. Radiated Spurious Plot Above 1GHz Antenna 2a (1Mbps, ePA – Ch. 19)

Bluetooth Mode: LE
Data Rate: 1Mbps
Distance of Measurements: 3 Meters
Operating Frequency: 2440MHz
Channel: 19

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]
4880.00	Avg	H	-	-	-78.29	4.40	33.11	53.98	-20.87
4880.00	Peak	H	-	-	-65.88	4.40	45.52	73.98	-28.46
7320.00	Avg	H	-	-	-79.82	8.56	35.74	53.98	-18.24
7320.00	Peak	H	-	-	-68.68	8.56	46.88	73.98	-27.10
12200.00	Avg	H	-	-	-84.70	17.19	39.49	53.98	-14.49
12200.00	Peak	H	-	-	-73.24	17.19	50.95	73.98	-23.03

Table 7-18. Radiated Measurements Antenna 2a

FCC ID: BCGA2301 IC: 579C-A2301	 PCTEST® Proud to be part of 			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-12.BCG	Test Dates: 12/15/2020-2/25/2021	EUT Type: Tablet Device			



Plot 7-86. Radiated Spurious Plot Above 1GHz Antenna 2a (1Mbps, ePA – Ch. 39)

Bluetooth Mode: LE
Data Rate: 1Mbps
Distance of Measurements: 3 Meters
Operating Frequency: 2480MHz
Channel: 39

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]
4960.00	Avg	H	-	-	-78.14	4.20	33.06	53.98	-20.92
4960.00	Peak	H	-	-	-66.37	4.20	44.83	73.98	-29.15
7440.00	Avg	H	-	-	-79.70	8.52	35.82	53.98	-18.16
7440.00	Peak	H	-	-	-67.53	8.52	47.99	73.98	-25.99
12400.00	Avg	H	-	-	-85.12	17.41	39.29	53.98	-14.69
12400.00	Peak	H	-	-	-73.16	17.41	51.25	73.98	-22.73

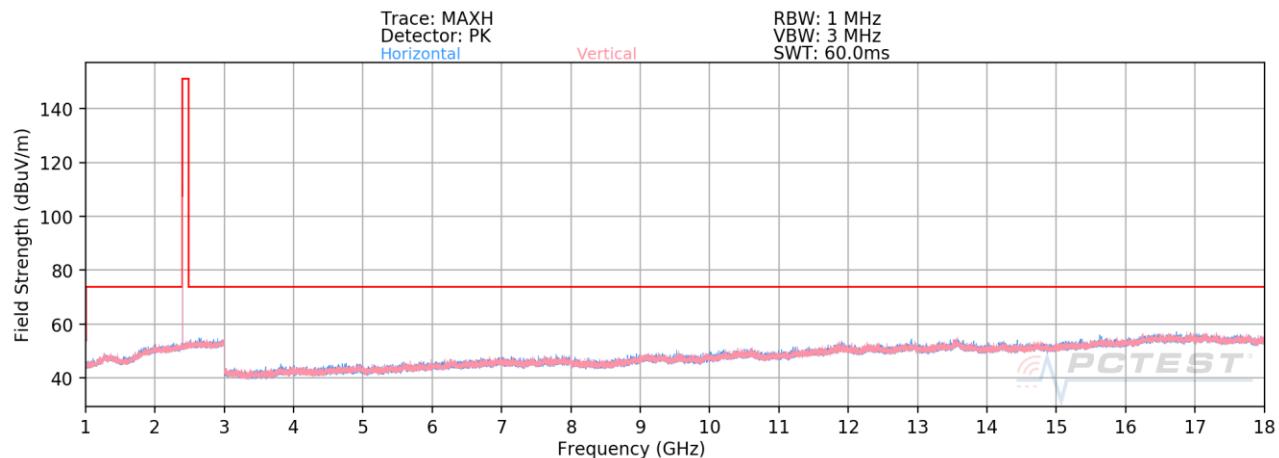
Table 7-19. Radiated Measurements Antenna 2a

FCC ID: BCGA2301 IC: 579C-A2301	 PCTEST® Proud to be part of 			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-12.BCG	Test Dates: 12/15/2020-2/25/2021	EUT Type: Tablet Device			

Radiated Spurious Emission Measurements (1 – 18GHz)

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

TxBF



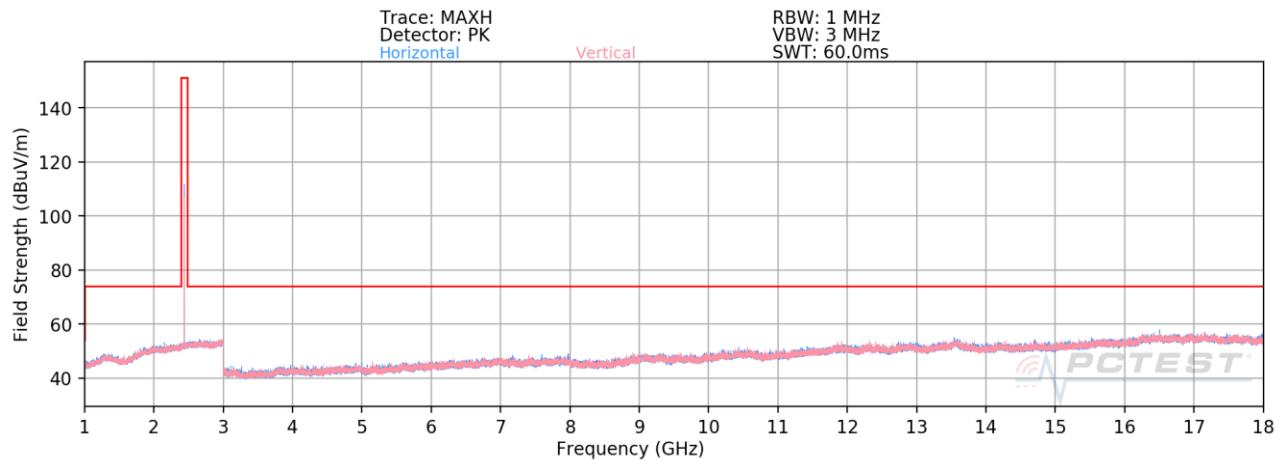
Plot 7-87. Radiated Spurious Plot Above 1GHz TxBF (1Mbps, ePA – Ch. 0)

Bluetooth Mode:	LE
Data Rate:	1Mbps
Distance of Measurements:	3 Meters
Operating Frequency:	2402MHz
Channel:	0

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]
4804.00	Avg	H	-	-	-81.12	7.86	33.74	53.98	-20.24
4804.00	Peak	H	-	-	-70.40	7.86	44.46	73.98	-29.52
12010.00	Avg	H	-	-	-83.36	16.81	40.45	53.98	-13.53
12010.00	Peak	H	-	-	-72.35	16.81	51.46	73.98	-22.52

Table 7-20. Radiated Measurements TxBF

FCC ID: BCGA2301 IC: 579C-A2301	 PCTEST® Proud to be part of  MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
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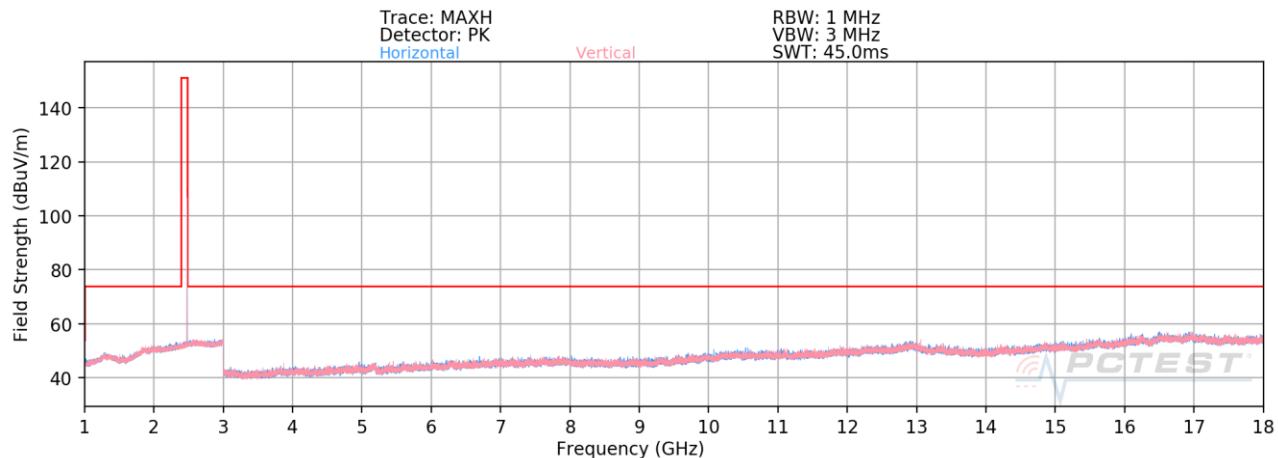
Plot 7-88. Radiated Spurious Plot Above 1GHz TxBF (1Mbps, ePA – Ch. 19)

Bluetooth Mode: LE
Data Rate: 1Mbps
Distance of Measurements: 3 Meters
Operating Frequency: 2440MHz
Channel: 19

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]
4880.00	Avg	H	-	-	-81.18	7.83	33.65	53.98	-20.33
4880.00	Peak	H	-	-	-70.27	7.83	44.56	73.98	-29.42
7320.00	Avg	H	-	-	-82.48	10.75	35.27	53.98	-18.71
7320.00	Peak	H	-	-	-71.46	10.75	46.29	73.98	-27.69
12200.00	Avg	H	-	-	-84.34	16.97	39.63	53.98	-14.35
12200.00	Peak	H	-	-	-71.85	16.97	52.12	73.98	-21.86

Table 7-21. Radiated Measurements TxBF

FCC ID: BCGA2301 IC: 579C-A2301	 PCTEST® Proud to be part of 			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-12.BCG	Test Dates: 12/15/2020-2/25/2021	EUT Type: Tablet Device			



Plot 7-89. Radiated Spurious Plot Above 1GHz TxBF (1Mbps, ePA – Ch. 39)

Bluetooth Mode: LE
Data Rate: 1Mbps
Distance of Measurements: 3 Meters
Operating Frequency: 2480MHz
Channel: 39

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]
4960.00	Avg	H	-	-	-82.84	8.74	32.90	53.98	-21.08
4960.00	Peak	H	-	-	-71.25	8.74	44.49	73.98	-29.49
7440.00	Avg	H	-	-	-83.15	12.09	35.94	53.98	-18.04
7440.00	Peak	H	-	-	-72.13	12.09	46.96	73.98	-27.02
12400.00	Avg	H	-	-	-85.39	17.21	38.82	53.98	-15.16
12400.00	Peak	H	-	-	-74.97	17.21	49.24	73.98	-24.74

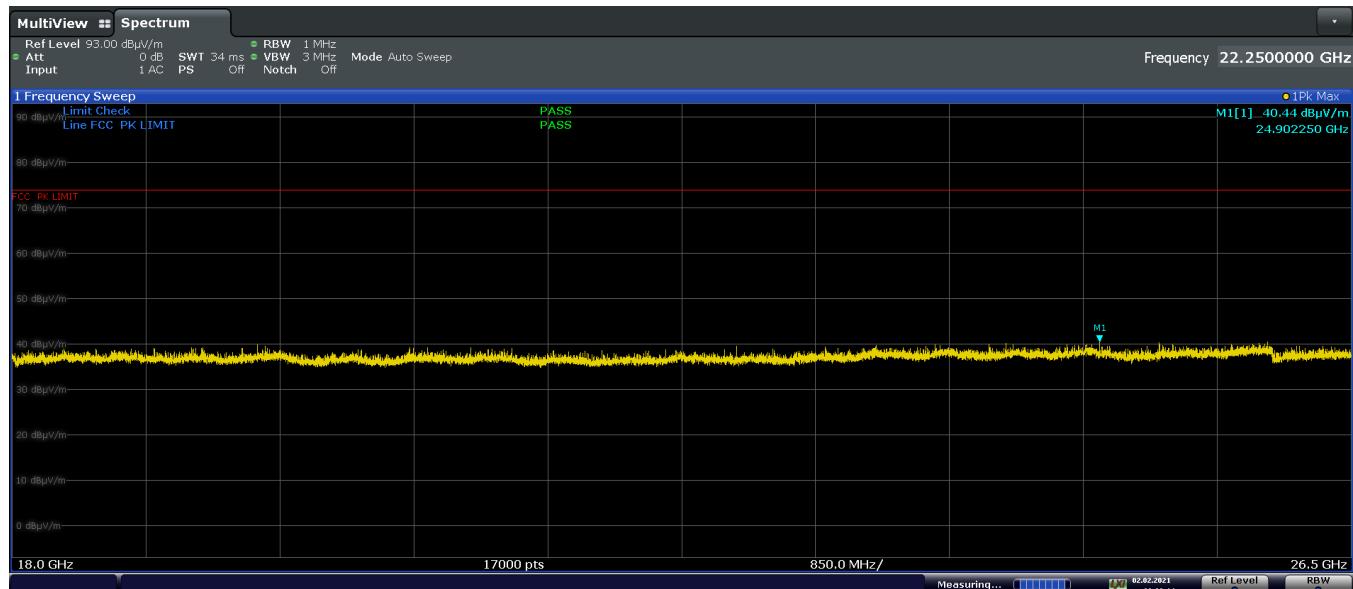
Table 7-22. Radiated Measurements TxBF

FCC ID: BCGA2301 IC: 579C-A2301	 PCTEST® Proud to be part of 			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-12.BCG	Test Dates: 12/15/2020-2/25/2021	EUT Type: Tablet Device			

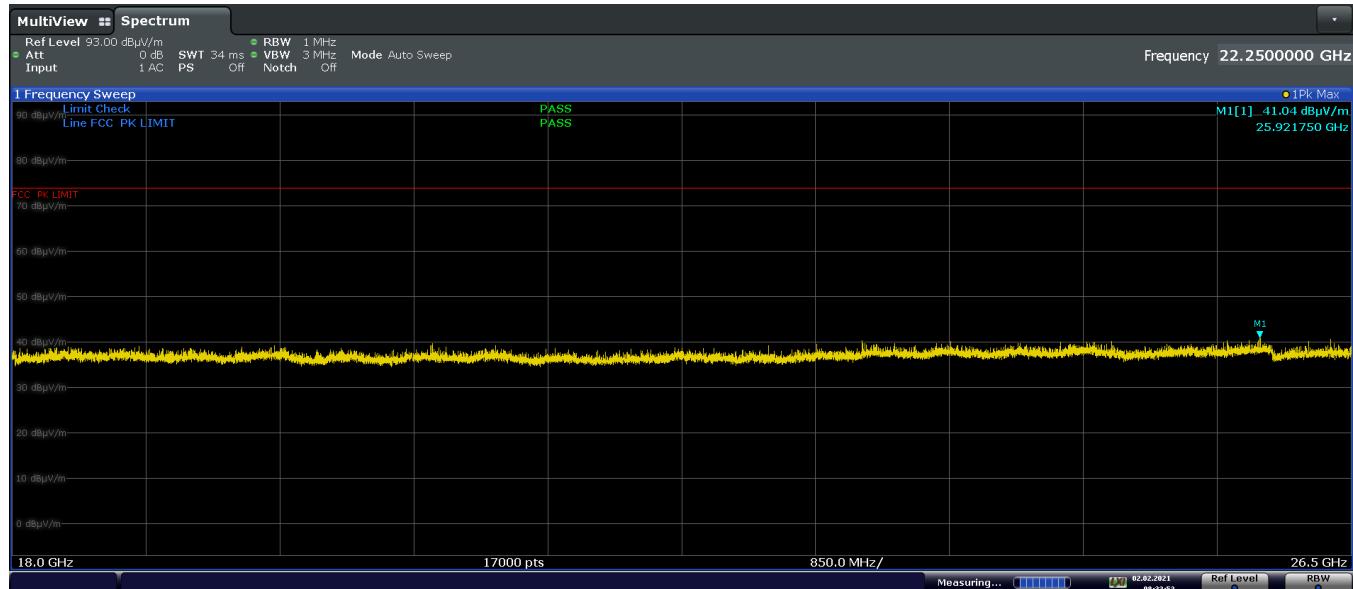
Radiated Spurious Emissions Measurements (Above 18GHz)

§15.209; RSS-Gen [8.9]

TxBF



Plot 7-90. Radiated Spurious Emissions Above 18GHz TxBF (1Mbps, ePA – Ch.19, Pol. H)



Plot 7-91. Radiated Spurious Emissions Above 18GHz TxBF (1Mbps, ePA – Ch.19, Pol. V)

FCC ID: BCGA2301 IC: 579C-A2301	 PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-12.BCG	Test Dates: 12/15/2020-2/25/2021	EUT Type: Tablet Device	Page 80 of 101

7.8 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:

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

Antenna 4a

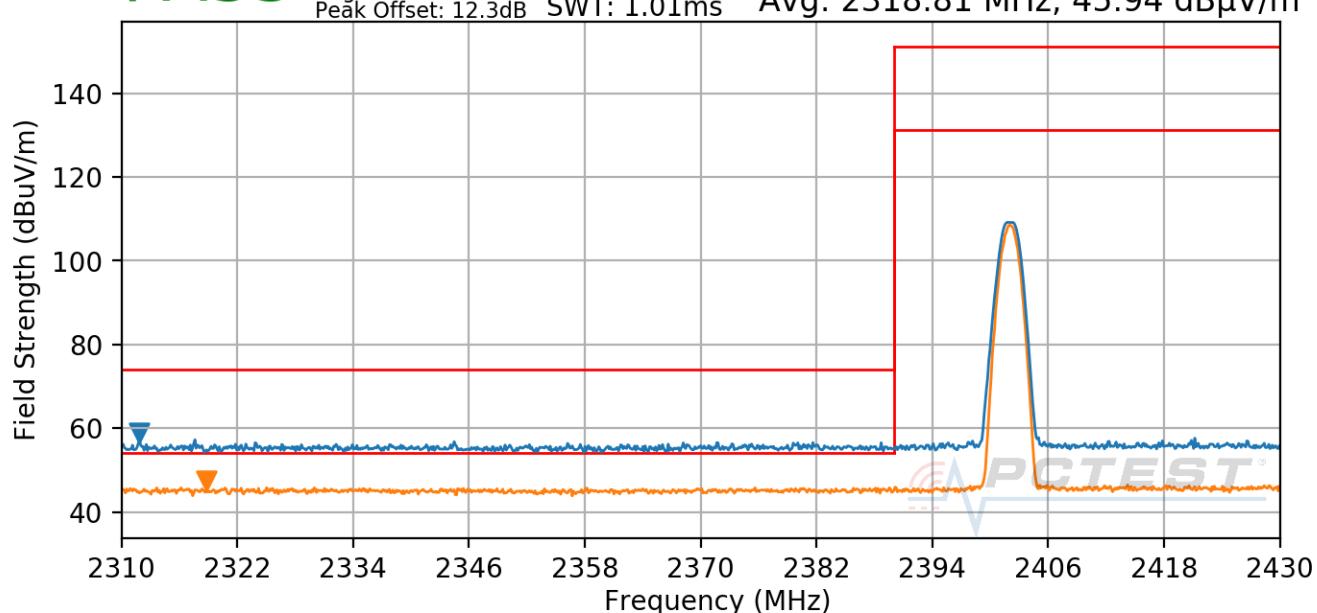
Bluetooth Mode:	<u>LE – Antenna 4a</u>
Data Rate:	<u>1Mbps</u>
Power Scheme:	<u>ePA</u>
Measurement Distance:	<u>3 Meters</u>
Operating Frequency:	<u>2402MHz</u>
Channel:	<u>0</u>

PASS

Average Trace
Peak Trace
Avg. Offset: 13.0dB
Peak Offset: 12.3dB

RBW: 1 MHz
VBW: 3 MHz
SWT: 1.01ms

Peak: 2311.86 MHz, 57.39 dB μ V/m
Avg: 2318.81 MHz, 45.94 dB μ V/m



Plot 7-92. Radiated Restricted Lower Band Edge Measurement Antenna 4a (Average & Peak)

$$\text{DCCF} = 10^{\ast}\log(1/\text{DC}) = 10^{\ast}\log(1/0.849) = 0.71\text{dB}$$

FCC ID: BCGA2301 IC: 579C-A2301	 PCTEST® Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-12.BCG	Test Dates: 12/15/2020-2/25/2021	EUT Type: Tablet Device		Page 81 of 101

Radiated Restricted Band Edge Measurements

§15.205 §15.209; RSS-Gen [8.9]

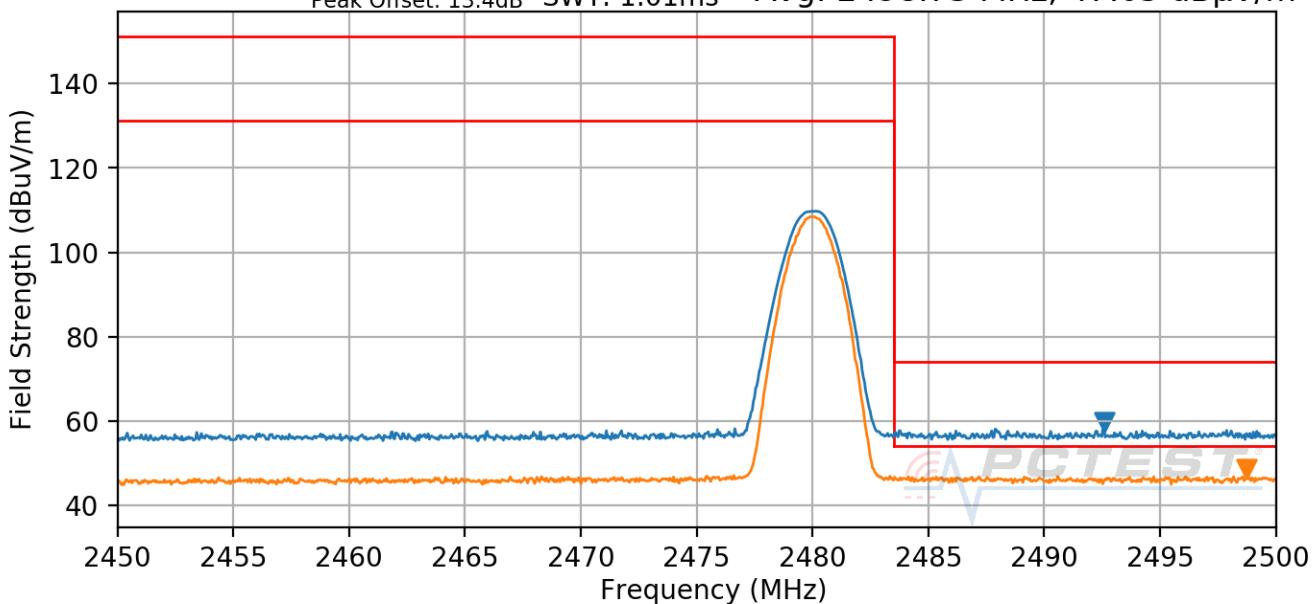
The amplitude offset shown in the following plots for average measurements was calculated using the formula:

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

Bluetooth Mode: LE – Antenna 4a
 Data Rate: GFSK
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 2480MHz
 Channel: 39

PASS

Average Trace Peak Trace
 Peak: 2492.58 MHz, 58.34 dB μ V/m
 Avg. Offset: 14.1dB RBW: 1 MHz VBW: 3 MHz
 Peak Offset: 13.4dB SWT: 1.01ms Avg: 2498.73 MHz, 47.05 dB μ V/m



Plot 7-93. Radiated Restricted Upper Band Edge Measurement Antenna 4a (Average & Peak)

$$\text{DCCF} = 10 \cdot \log(1/\text{DC}) = 10 \cdot \log(1/0.849) = 0.71 \text{dB}$$

FCC ID: BCGA2301 IC: 579C-A2301	 PCTEST® Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-12.BCG	Test Dates: 12/15/2020-2/25/2021	EUT Type: Tablet Device		Page 82 of 101

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: LE – Antenna 4a
 Data Rate: 2Mbps
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 2404MHz
 Channel: 1

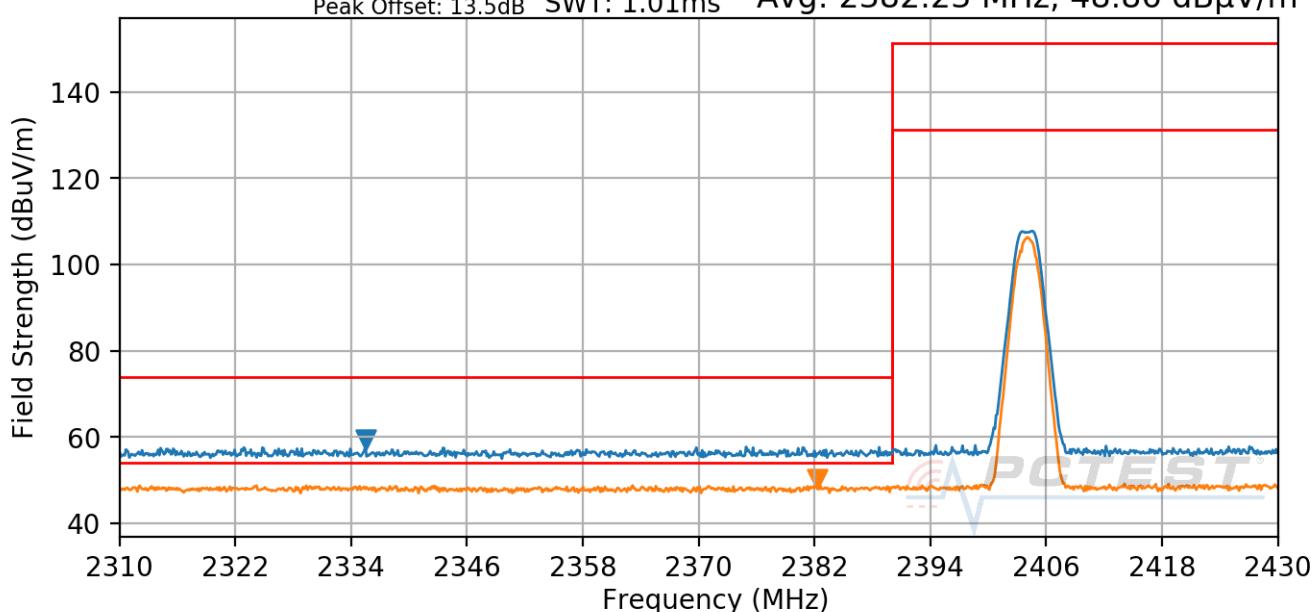
PASS

Average Trace
 Peak Trace

RBW: 1 MHz
 VBW: 3 MHz
 Avg. Offset: 16.0dB
 Peak Offset: 13.5dB

SWT: 1.01ms

Peak: 2335.47 MHz, 57.89 dB μ V/m
 Avg: 2382.23 MHz, 48.86 dB μ V/m



Plot 7-94. Radiated Restricted Lower Band Edge Measurement Antenna 4a (Average & Peak)

$$\text{DCCF} = 10 \cdot \log(1/\text{DC}) = 10 \cdot \log(1/0.569) = 2.45 \text{dB}$$

FCC ID: BCGA2301 IC: 579C-A2301	 PCTEST® Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-12.BCG	Test Dates: 12/15/2020-2/25/2021	EUT Type: Tablet Device		Page 83 of 101

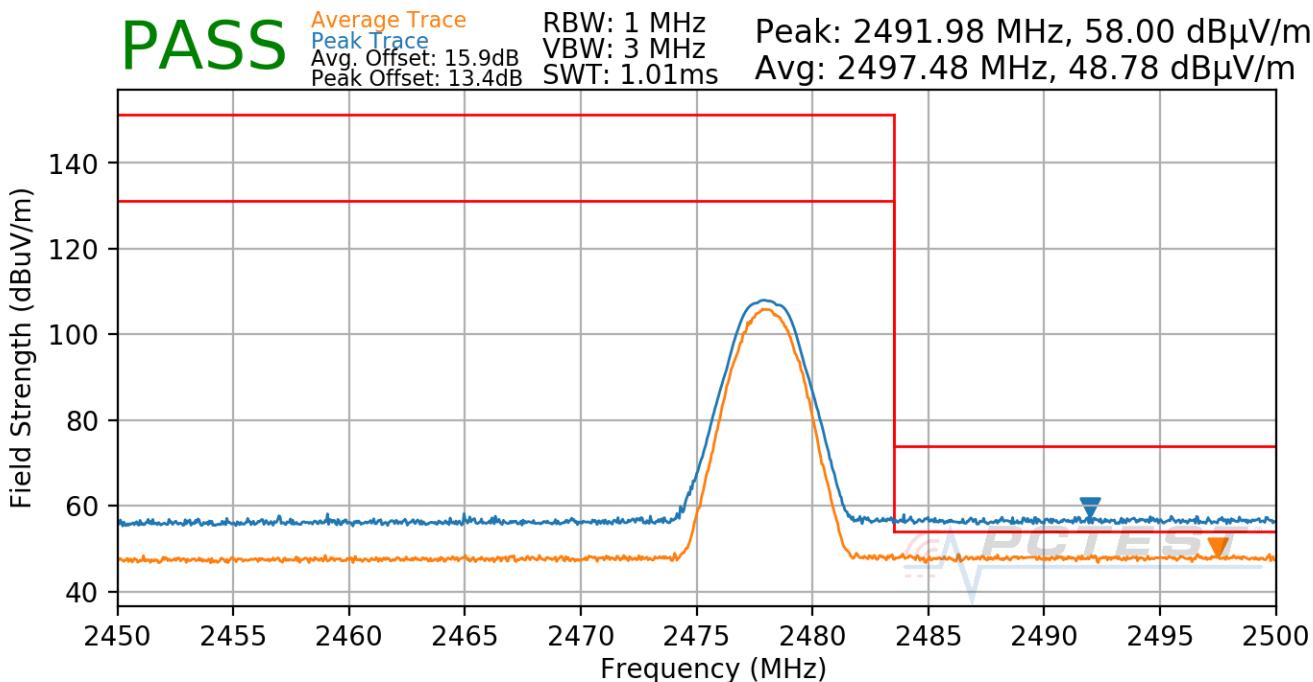
Radiated Restricted Band Edge Measurements

§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: LE – Antenna 4a
 Data Rate: 2Mbps
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 2478MHz
 Channel: 38



Plot 7-95. Radiated Restricted Upper Band Edge Measurement Antenna 4a (Average & Peak)

$$\text{DCCF} = 10 \cdot \log(1/\text{DC}) = 10 \cdot \log(1/0.569) = 2.45 \text{dB}$$

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-12.BCG	Test Dates: 12/15/2020-2/25/2021	EUT Type: Tablet Device	Page 84 of 101	

Radiated Restricted Band Edge Measurements

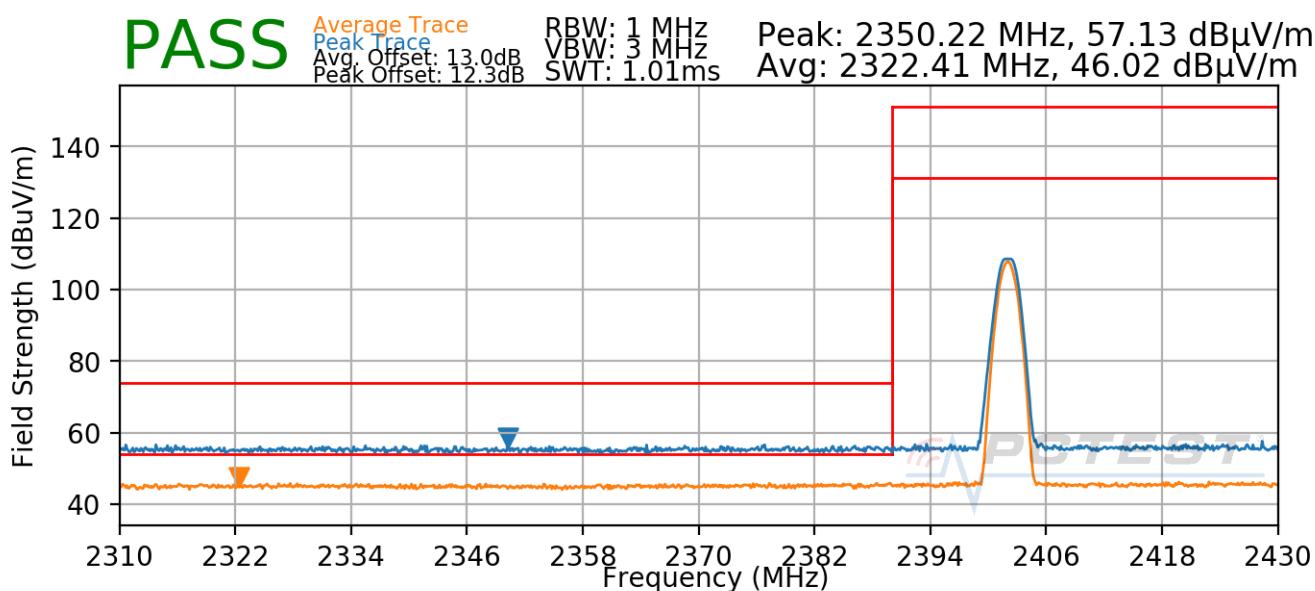
§15.205 §15.209; RSS-Gen [8.9]

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

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

Antenna 2a

Bluetooth Mode:	<u>LE – Antenna 2a</u>
Data Rate:	<u>1Mbps</u>
Power Scheme:	<u>ePA</u>
Measurement Distance:	<u>3 Meters</u>
Operating Frequency:	<u>2402MHz</u>
Channel:	<u>0</u>



Plot 7-96. Radiated Restricted Lower Band Edge Measurement Antenna 2a (Average & Peak)

$$\text{DCCF} = 10^{\log(1/\text{DC})} = 10^{\log(1/0.850)} = 0.71\text{dB}$$

FCC ID: BCGA2301 IC: 579C-A2301	 PCTEST® Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-12.BCG	Test Dates: 12/15/2020-2/25/2021	EUT Type: Tablet Device		Page 85 of 101

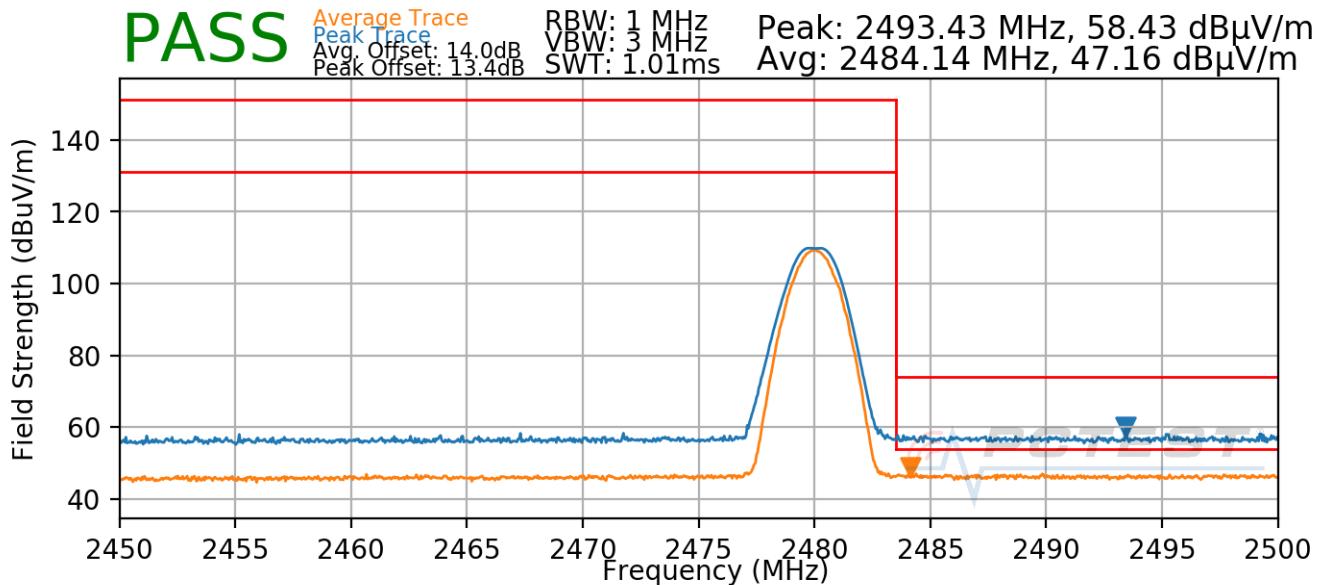
Radiated Restricted Band Edge Measurements

§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: LE – Antenna 2a
 Data Rate: 1Mbps
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 2480MHz
 Channel: 39



Plot 7-97. Radiated Restricted Upper Band Edge Measurement Antenna 2a (Average & Peak)

$$\text{DCCF} = 10^{\log(1/\text{DC})} = 10^{\log(1/0.850)} = 0.71\text{dB}$$

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-12.BCG	Test Dates: 12/15/2020-2/25/2021	EUT Type: Tablet Device	Page 86 of 101

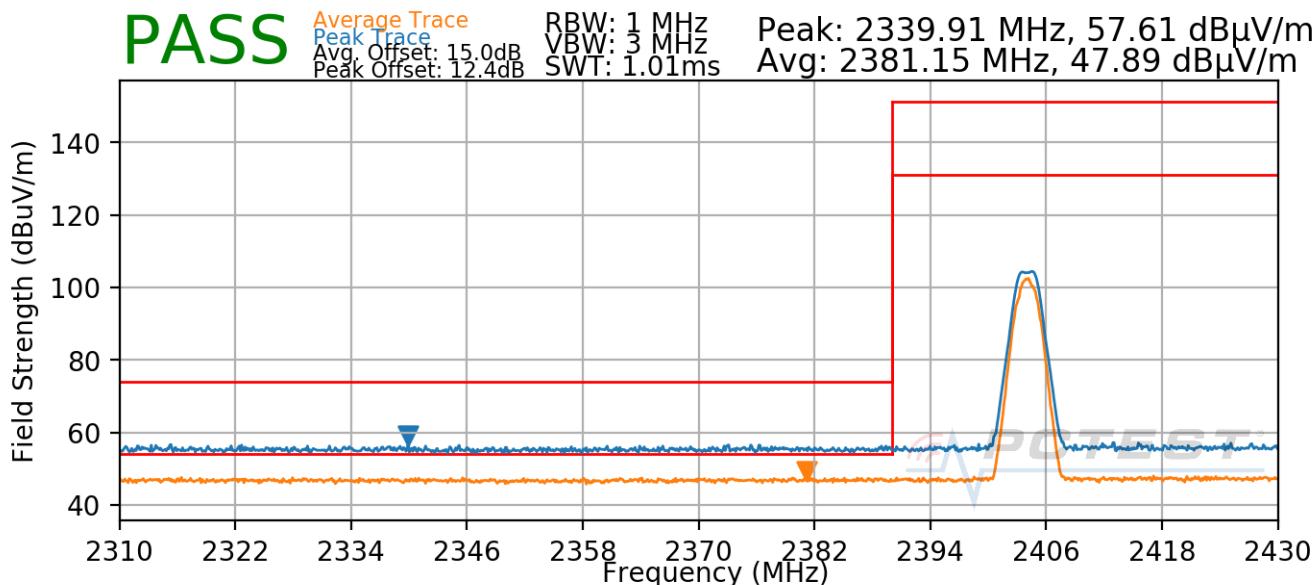
Radiated Restricted Band Edge Measurements

§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:	LE – Antenna 2a
Data Rate:	2Mbps
Power Scheme:	ePA
Measurement Distance:	3 Meters
Operating Frequency:	2404MHz
Channel:	1



Plot 7-98. Radiated Restricted Lower Band Edge Measurement Antenna 2a (Average & Peak)

$$DCCF = 10 \cdot \log(1/DC) = 10 \cdot \log(1/0.57) = 2.45 \text{dB}$$

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST [®] Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-12.BCG	Test Dates: 12/15/2020-2/25/2021	EUT Type: Tablet Device		Page 87 of 101

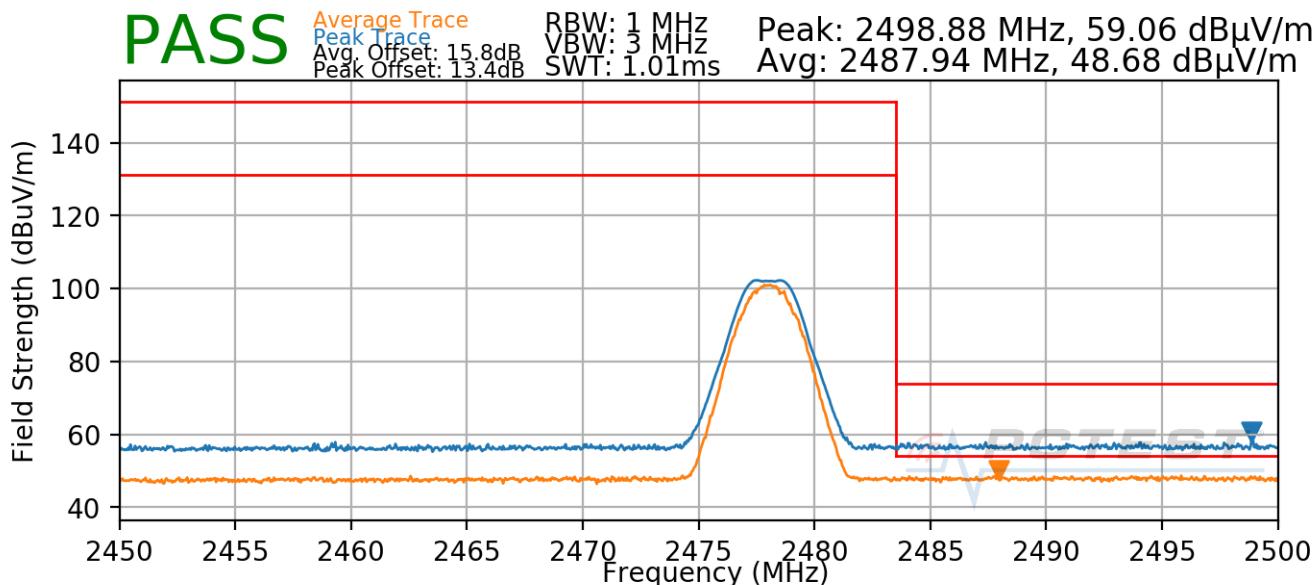
Radiated Restricted Band Edge Measurements

§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:	LE – Antenna 2a
Data Rate:	2Mbps
Power Scheme:	ePA
Measurement Distance:	3 Meters
Operating Frequency:	2478MHz
Channel:	38



Plot 7-99. Radiated Restricted Upper Band Edge Measurement Antenna 2a (Average & Peak)

$$DCCF = 10 \cdot \log(1/DC) = 10 \cdot \log(1/0.57) = 2.45 \text{dB}$$

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-12.BCG	Test Dates: 12/15/2020-2/25/2021	EUT Type: Tablet Device		Page 88 of 101

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:

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

TxBF

Bluetooth Mode:	<u>LE – TxBF</u>
Data Rate:	<u>1Mbps</u>
Power Scheme:	<u>ePA</u>
Measurement Distance:	<u>3 Meters</u>
Operating Frequency:	<u>2402MHz</u>
Channel:	<u>0</u>

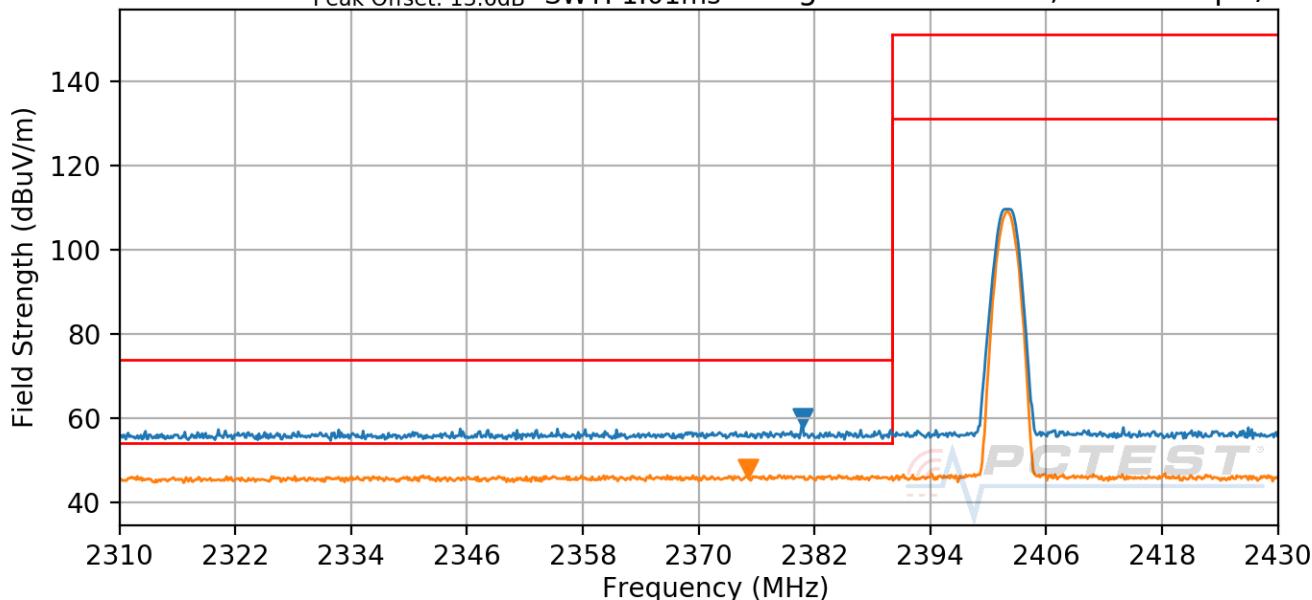
PASS

Average Trace
Peak Trace

Avg. Offset: 14.3dB
Peak Offset: 13.6dB

RBW: 1 MHz
VBW: 3 MHz
SWT: 1.01ms

Peak: 2380.79 MHz, 58.43 dB μ V/m
Avg: 2375.15 MHz, 46.54 dB μ V/m



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

$$\text{DCCF} = 10^{\ast}\log(1/\text{DC}) = 10^{\ast}\log(1/0.849) = 0.71\text{dB}$$

FCC ID: BCGA2301 IC: 579C-A2301	 PCTEST® Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-12.BCG	Test Dates: 12/15/2020-2/25/2021	EUT Type: Tablet Device		Page 89 of 101

Radiated Restricted Band Edge Measurements

§15.205 §15.209; RSS-Gen [8.9]

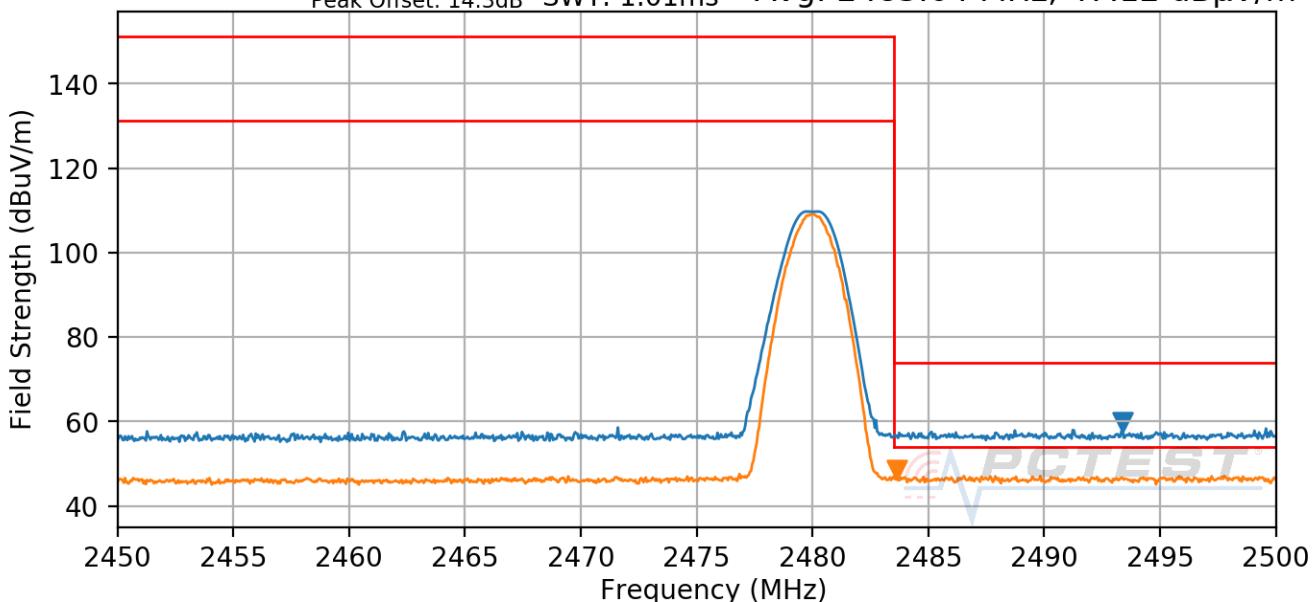
The amplitude offset shown in the following plots for average measurements was calculated using the formula:

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

Bluetooth Mode: LE - TxBF
 Data Rate: 1Mbps
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 2480MHz
 Channel: 39

PASS

Average Trace Peak Trace RBW: 1 MHz Peak: 2493.38 MHz, 58.40 dB μ V/m
 Avg. Offset: 14.9dB VBW: 3 MHz Avg: 2483.64 MHz, 47.12 dB μ V/m
 Peak Offset: 14.3dB SWT: 1.01ms



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

$$\text{DCCF} = 10 \cdot \log(1/\text{DC}) = 10 \cdot \log(1/0.849) = 0.71 \text{dB}$$

FCC ID: BCGA2301 IC: 579C-A2301	 PCTEST® Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-12.BCG	Test Dates: 12/15/2020-2/25/2021	EUT Type: Tablet Device		Page 90 of 101

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:	LE - TxBF
Data Rate:	2Mbps
Power Scheme:	ePA
Measurement Distance:	3 Meters
Operating Frequency:	2404MHz
Channel:	1

PASS

Average Trace

Peak Trace

Avg. Offset: 16.0dB

Peak Offset: 13.6dB

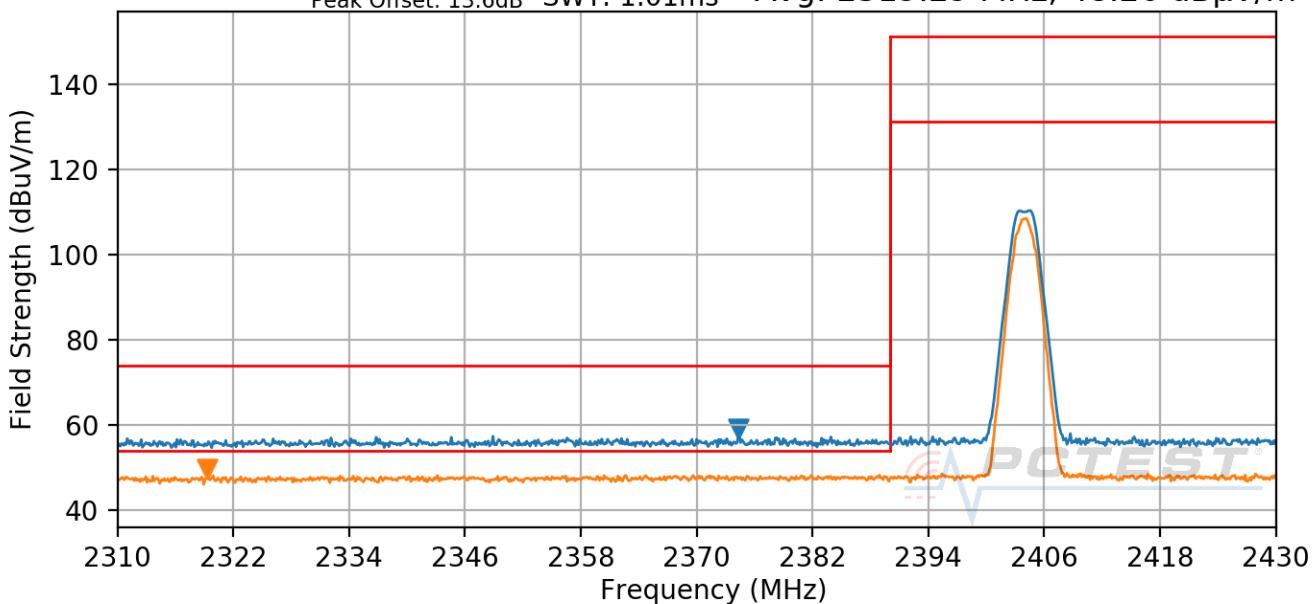
RBW: 1 MHz

VBW: 3 MHz

SWT: 1.01ms

Peak: 2374.32 MHz, 57.64 dB μ V/m

Avg: 2319.29 MHz, 48.26 dB μ V/m



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

$$DCCF = 10 \cdot \log(1/DC) = 10 \cdot \log(1/0.569) = 2.45 \text{ dB}$$

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-12.BCG	Test Dates: 12/15/2020-2/25/2021	EUT Type: Tablet Device	Page 91 of 101	

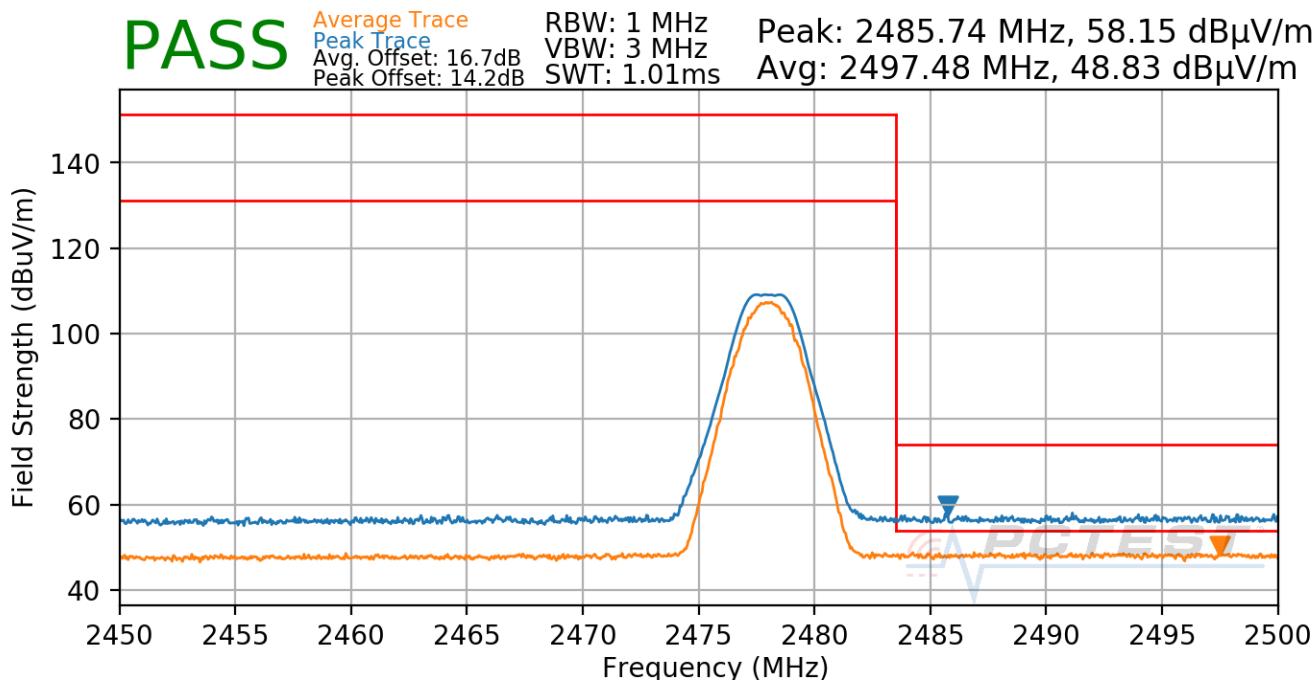
Radiated Restricted Band Edge Measurements

§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: LE – TxBF
 Data Rate: 2Mbps
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 2478MHz
 Channel: 38



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

$$\text{DCCF} = 10 \cdot \log(1/\text{DC}) = 10 \cdot \log(1/0.569) = 2.45 \text{dB}$$

FCC ID: BCGA2301 IC: 579C-A2301	 PCTEST® Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-12.BCG	Test Dates: 12/15/2020-2/25/2021	EUT Type: Tablet Device		Page 92 of 101

7.9 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: BCGA2301 IC: 579C-A2301	 PCTEST® Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-12.BCG	Test Dates: 12/15/2020-2/25/2021	EUT Type: Tablet Device	Page 93 of 101	

Test Setup

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

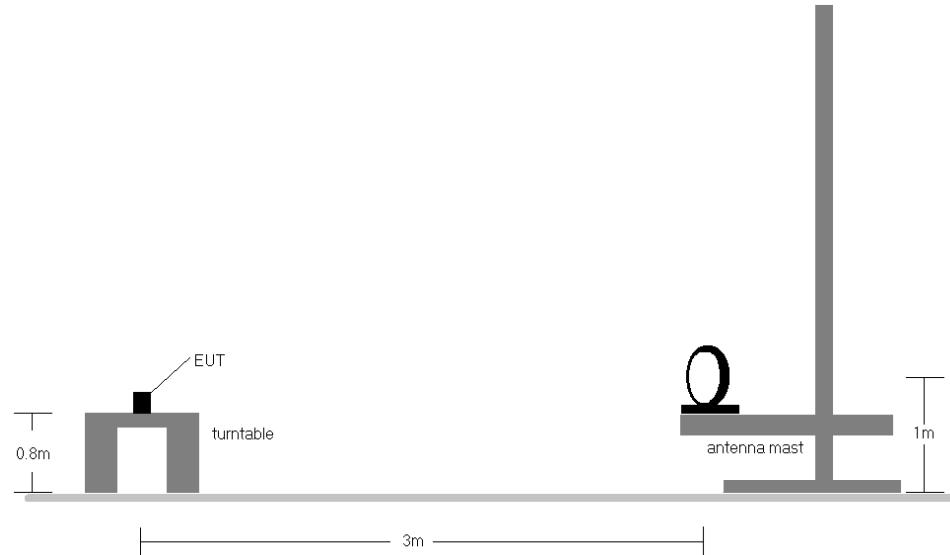


Figure 7-7. Radiated Test Setup < 30Mhz

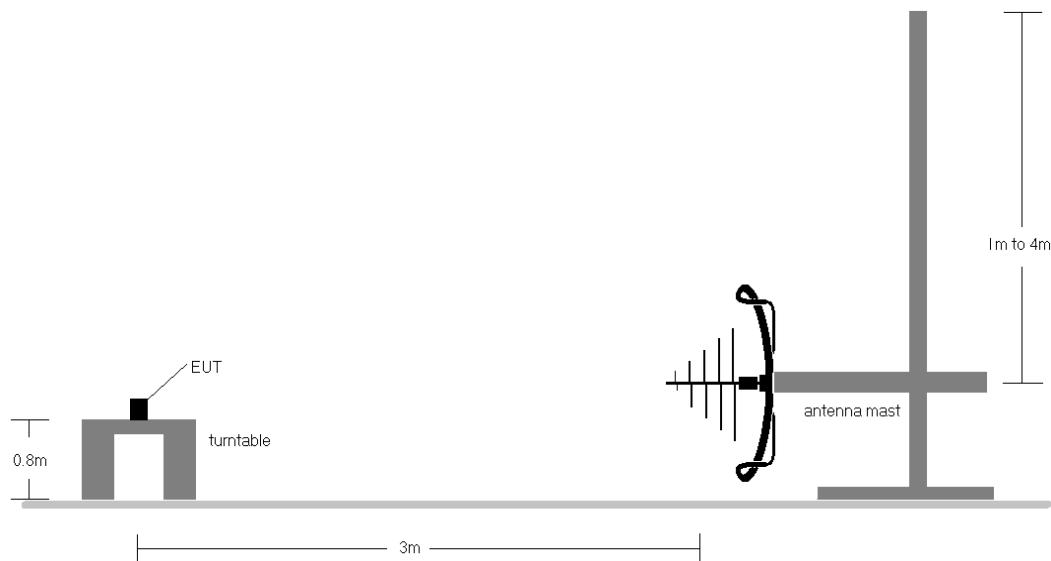


Figure 7-8. Radiated Test Setup < 1GHz

FCC ID: BCGA2301 IC: 579C-A2301	 PCTEST® Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-12.BCG	Test Dates: 12/15/2020-2/25/2021	EUT Type: Tablet Device		Page 94 of 101

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 modulations, antennas (including TxBF mode) and power schemes have been tested on the unit and only the 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

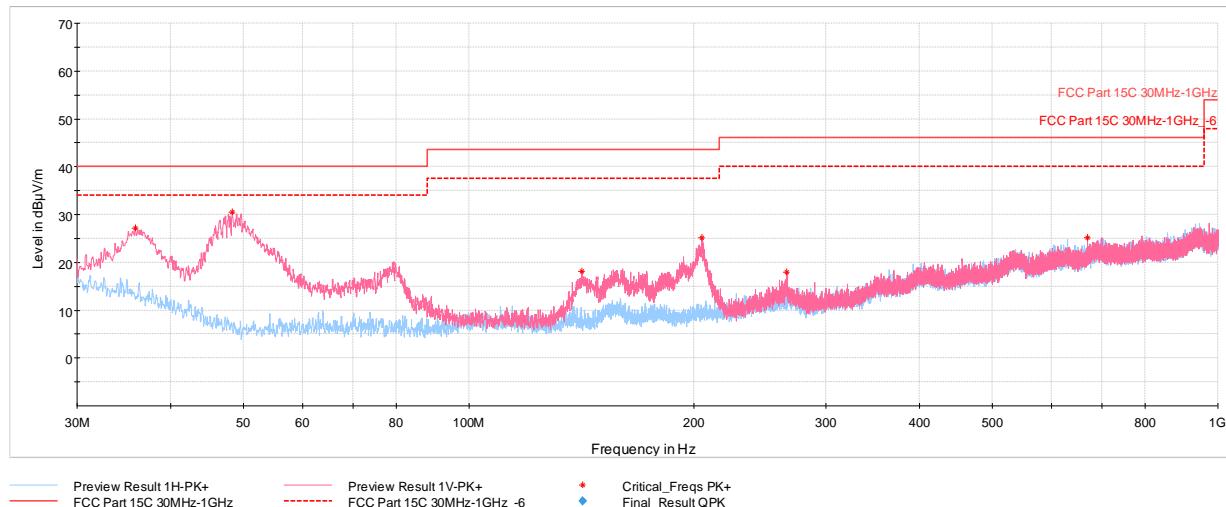
- Field Strength Level $[\text{dB}_{\mu\text{V/m}}]$ = Analyzer Level $[\text{dBm}]$ + 107 + AFCL $[\text{dB}/\text{m}]$
- AFCL $[\text{dB}/\text{m}]$ = Antenna Factor $[\text{dB}/\text{m}]$ + Cable Loss $[\text{dB}]$ – Preamplifier Gain $[\text{dB}]$
- Margin $[\text{dB}]$ = Field Strength Level $[\text{dB}_{\mu\text{V/m}}]$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

FCC ID: BCGA2301 IC: 579C-A2301	 PCTEST® Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-12.BCG	Test Dates: 12/15/2020-2/25/2021	EUT Type: Tablet Device		Page 95 of 101

Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209; RSS-Gen [8.9]

TxBF



Plot 7-104. Radiated Spurious Emissions Below 1GHz TxBF (1Mbps, ePA – Ch.19, Pol. H & V, 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]
35.87	Max Peak	V	100	285	-65.06	-14.73	27.21	40.00	-12.79
48.33	Max Peak	V	100	5	-55.81	-20.74	30.45	40.00	-9.55
141.70	Max Peak	V	100	234	-70.16	-18.79	18.05	43.52	-25.47
204.65	Max Peak	V	250	225	-65.22	-16.71	25.07	43.52	-18.45
265.47	Max Peak	V	100	253	-75.32	-13.69	17.99	46.02	-28.03
669.76	Max Peak	V	250	64	-77.87	-3.92	25.21	46.02	-20.81

Table 7-24. Radiated Spurious Emissions Below 1GHz TxBF (1Mbps, ePA – Ch.19, Pol. H & V, with AC/DC Adapter)

FCC ID: BCGA2301 IC: 579C-A2301	 PCTEST® Proud to be part of  MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
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7.10 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, 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

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Test Setup

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

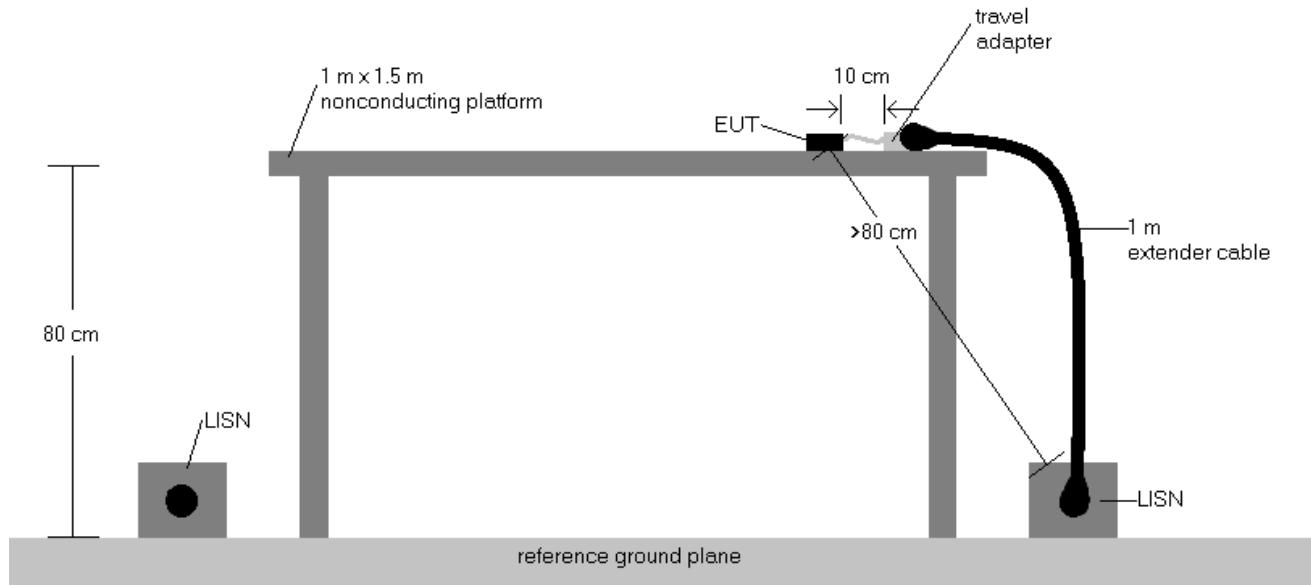
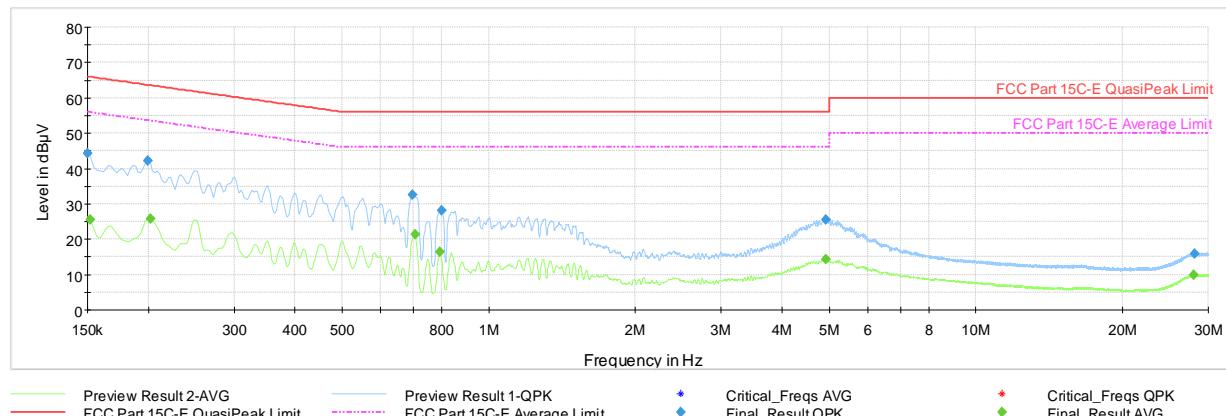


Figure 7-9. Test Instrument & Measurement Setup

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. The limit for an intentional radiator from 150kHz to 30MHz are specified in Part 15.207 and RSS-Gen (8.8).
3. Corr. (dB) = Cable loss (dB) + LISN insertion factor (dB)
4. QP/AV Level (dB μ V) = QP/AV Analyzer/Receiver Level (dB μ V) + Corr. (dB)
5. Margin (dB) = QP/AV Level (dB μ V) - QP/AV Limit (dB μ V)
6. Traces shown in plot are made using a quasi peak and average detectors.
7. Deviations to the Specifications: None.
8. All supported modulations, antennas (including TxBF mode) and power schemes have been tested on the unit and only the worst case configuration is reported.
9. 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

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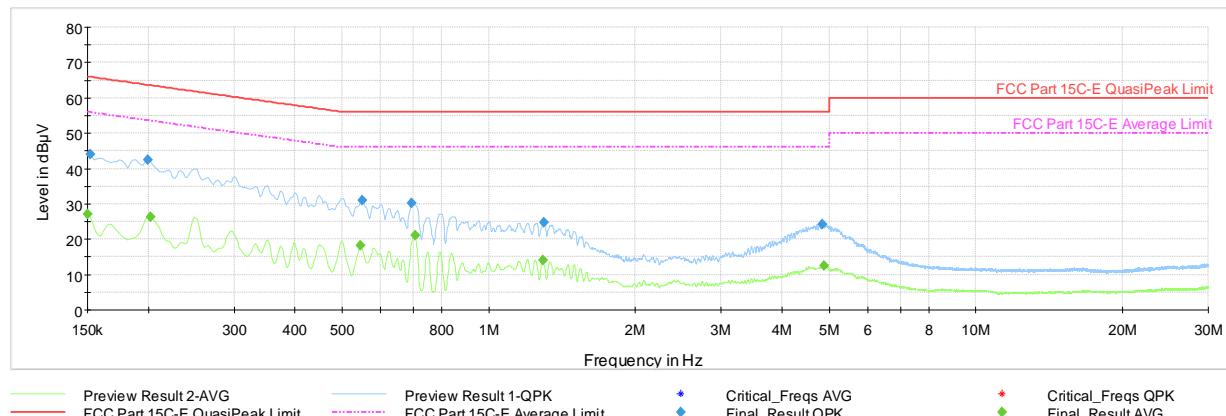


Plot 7-105. AC Line Conducted Plot with Bluetooth LE TxBF (1Mbps, ePA – Ch.19, L1, with AC/DC Adapter)

Frequency [MHz]	Process State	QuasiPeak [dB μ V]	Average [dB μ V]	Limit [dB μ V]	Margin [dB]	Line	PE
0.150	FINAL	44.2	—	66.00	-21.78	L1	GND
0.152	FINAL	—	25.65	55.88	-30.22	L1	GND
0.200	FINAL	42.1	—	63.63	-21.54	L1	GND
0.202	FINAL	—	25.73	53.54	-27.81	L1	GND
0.697	FINAL	32.7	—	56.00	-23.30	L1	GND
0.706	FINAL	—	21.25	46.00	-24.75	L1	GND
0.794	FINAL	—	16.35	46.00	-29.65	L1	GND
0.800	FINAL	28.1	—	56.00	-27.86	L1	GND
4.916	FINAL	25.5	—	56.00	-30.51	L1	GND
4.929	FINAL	—	14.20	46.00	-31.80	L1	GND
27.971	FINAL	—	9.78	50.00	-40.22	L1	GND
28.088	FINAL	15.8	—	60.00	-44.23	L1	GND

Table 7-26. AC Line Conducted Data with Bluetooth LE TxBF (1Mbps, ePA – Ch.19, L1, with AC/DC Adapter)

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Plot 7-106. AC Line Conducted Plot with Bluetooth LE TxBF (1Mbps, ePA – Ch.19, N, with AC/DC Adapter)

Frequency [MHz]	Process State	QuasiPeak [dB μ V]	Average [dB μ V]	Limit [dB μ V]	Margin [dB]	Line	PE
0.150	FINAL	—	27.20	56.00	-28.80	N	GND
0.152	FINAL	44.1	—	65.88	-21.80	N	GND
0.200	FINAL	42.6	—	63.63	-21.05	N	GND
0.202	FINAL	—	26.22	53.54	-27.32	N	GND
0.546	FINAL	—	18.14	46.00	-27.86	N	GND
0.551	FINAL	31.0	—	56.00	-25.03	N	GND
0.695	FINAL	30.2	—	56.00	-25.84	N	GND
0.706	FINAL	—	21.09	46.00	-24.91	N	GND
1.291	FINAL	—	14.14	46.00	-31.86	N	GND
1.300	FINAL	24.7	—	56.00	-31.34	N	GND
4.837	FINAL	24.1	—	56.00	-31.88	N	GND
4.880	FINAL	—	12.44	46.00	-33.56	N	GND

Table 7-27. AC Line Conducted Data with Bluetooth LE TxBF (1Mbps, ePA – Ch.19, N, 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: BCGA2301, IC: 579C-A2301** 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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