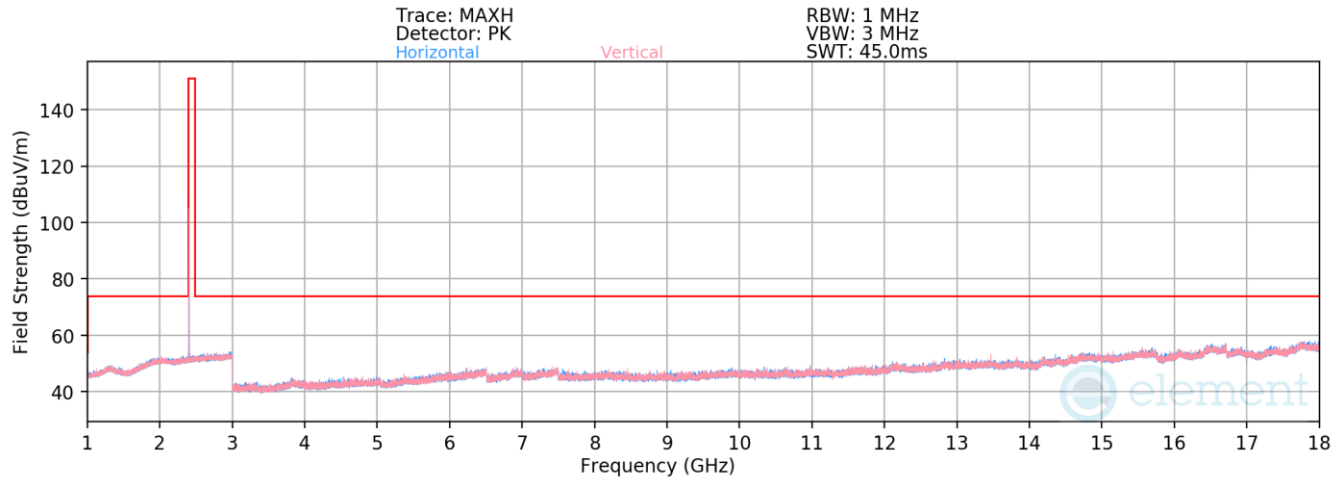


Radiated Spurious Emission Measurements (1 – 18GHz)

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

Antenna WF7



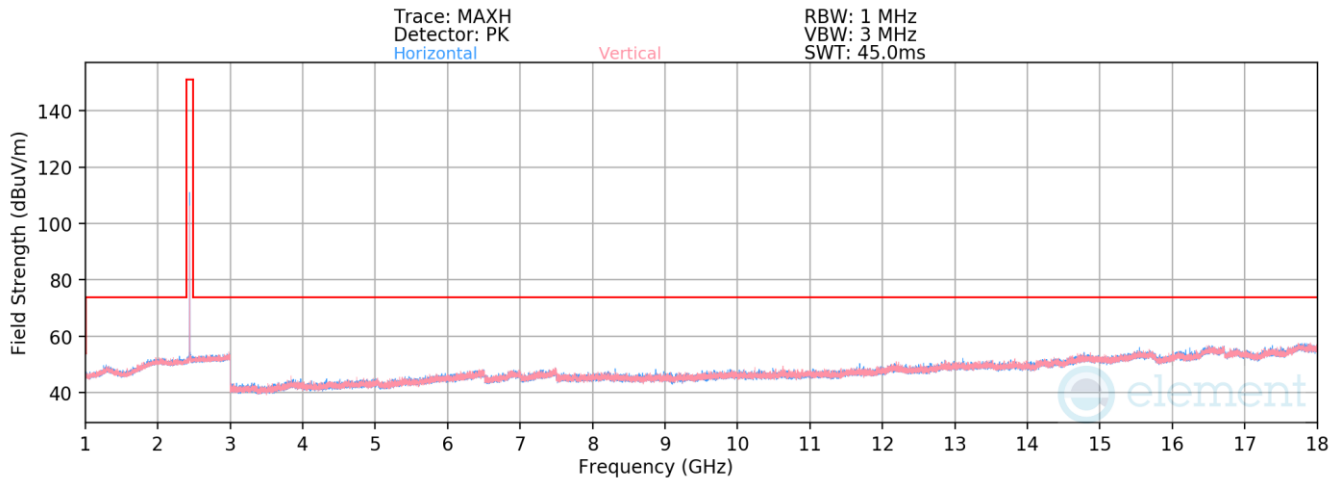
Plot 7-112. Radiated Spurious Emissions 1-18GHz Antenna WF7 (4Mbps, HDR4, ePA – Ch. 1)

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	Average	V	-	-	-77.90	4.11	33.21	53.98	-20.77
4808.00	Peak	V	-	-	-66.39	4.22	44.83	73.98	-29.15
12020.00	Average	V	-	-	-80.81	11.97	38.17	53.98	-15.81
12020.00	Peak	V	-	-	-69.03	11.97	49.95	73.98	-24.03

Table 7-21. Radiated Spurious Emission Measurements Antenna WF7

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-05.BCG	Test Dates: 1/8/2024 - 3/14/2024	EUT Type: Tablet Device	Page 91 of 117



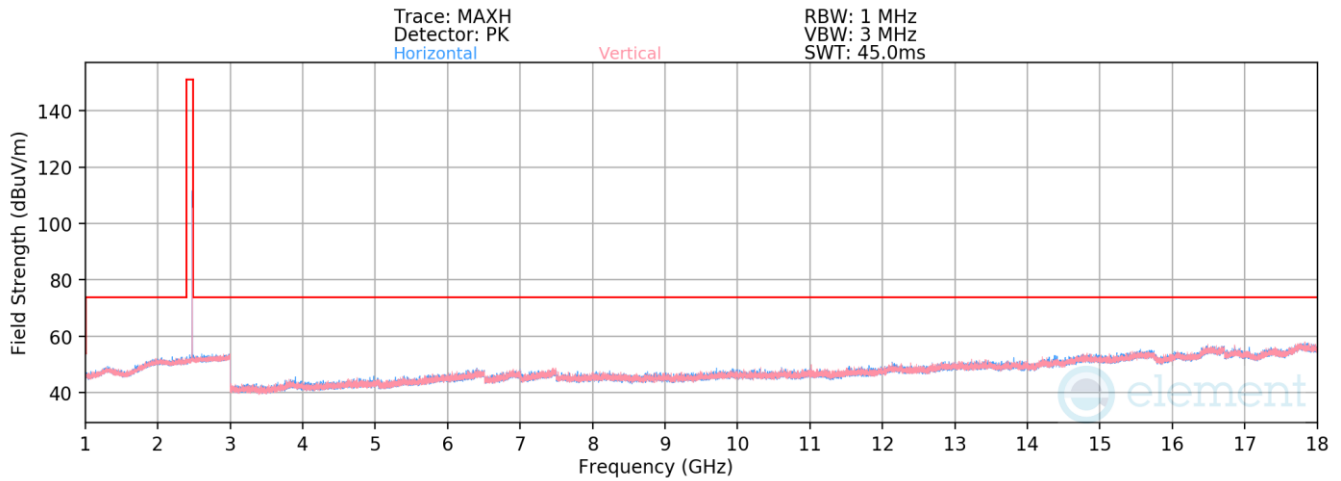
Plot 7-113. Radiated Spurious Emissions 1-18GHz Antenna WF7 (4Mbps, HDR4, ePA – Ch. 38)

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 [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4882.00	Average	V	-	-	-77.79	4.32	33.53	53.98	-20.45
4882.00	Peak	V	-	-	-66.07	4.32	45.25	73.98	-28.73
7323.00	Average	V	-	-	-78.83	8.75	36.92	53.98	-17.06
7323.00	Peak	V	-	-	-67.62	8.75	48.13	73.98	-25.85
12205.00	Average	V	-	-	-81.05	12.49	38.43	53.98	-15.55
12205.00	Peak	V	-	-	-68.59	12.49	50.89	73.98	-23.09

Table 7-22. Radiated Spurious Emission Measurements Antenna WF7

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-05.BCG	Test Dates: 1/8/2024 - 3/14/2024	EUT Type: Tablet Device	Page 92 of 117



Plot 7-114. Radiated Spurious Emissions 1-18GHz Antenna WF7 (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 [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4952.00	Average	H	-	-	-78.35	4.37	33.02	53.98	-20.96
4952.00	Peak	H	-	-	-66.77	4.46	44.69	73.98	-29.29
7428.00	Average	H	-	-	-79.13	9.01	36.88	53.98	-17.10
7428.00	Peak	H	-	-	-66.89	8.67	48.78	73.98	-25.20
12380.00	Average	H	-	-	-80.70	12.29	38.59	53.98	-15.39
12380.00	Peak	H	-	-	-68.93	12.29	50.35	73.98	-23.63

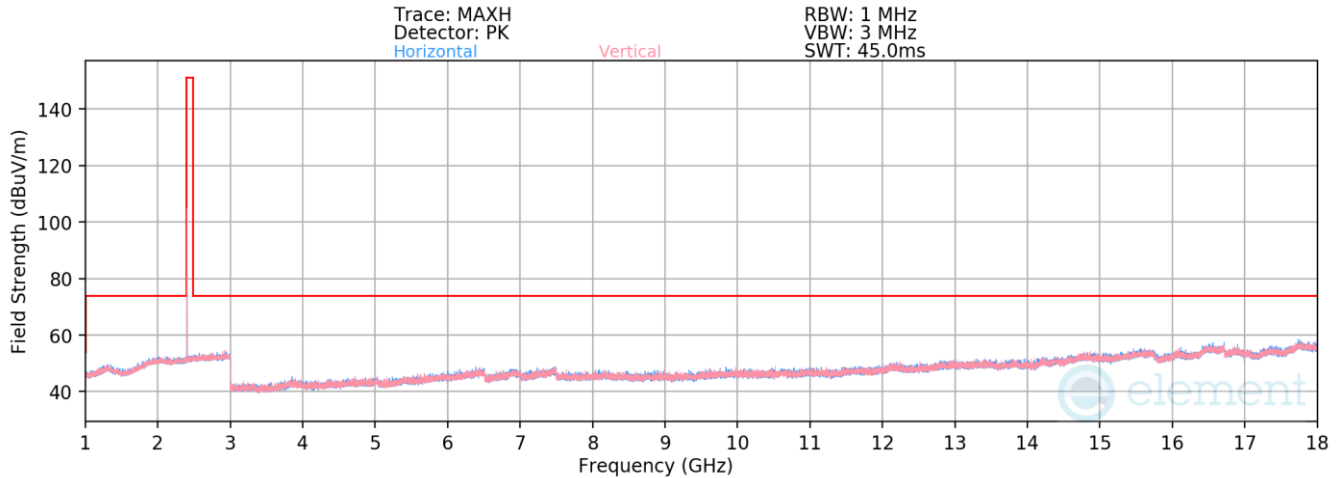
Table 7-23. Radiated Spurious Emission Measurements Antenna WF7

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-05.BCG	Test Dates: 1/8/2024 - 3/14/2024	EUT Type: Tablet Device	Page 93 of 117

Radiated Spurious Emission Measurements (1 – 18GHz)

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

Antenna WF9



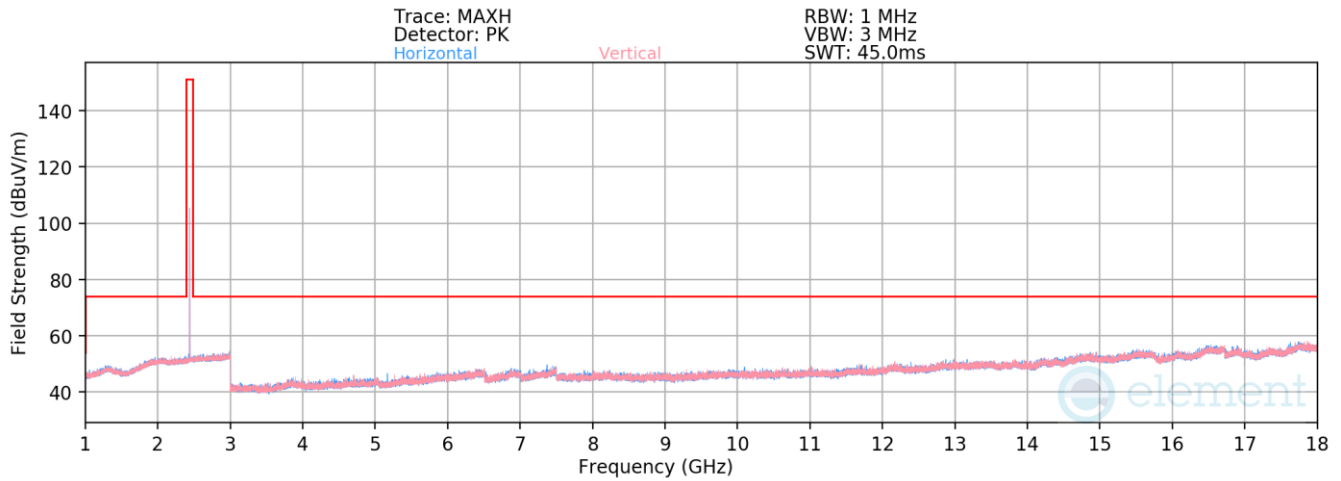
Plot 7-115. Radiated Spurious Emissions 1-18GHz Antenna WF9 (4Mbps, HDR4, ePA – Ch. 1)

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	Average	V	-	-	-77.82	4.11	33.29	53.98	-20.69
4808.00	Peak	V	-	-	-66.18	4.11	44.93	73.98	-29.05
12020.00	Average	V	-	-	-80.63	11.97	38.34	53.98	-15.64
12020.00	Peak	V	-	-	-68.94	11.94	50.00	73.98	-23.98

Table 7-24. Radiated Spurious Emission Measurements Antenna WF9

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-05.BCG	Test Dates: 1/8/2024 - 3/14/2024	EUT Type: Tablet Device	Page 94 of 117



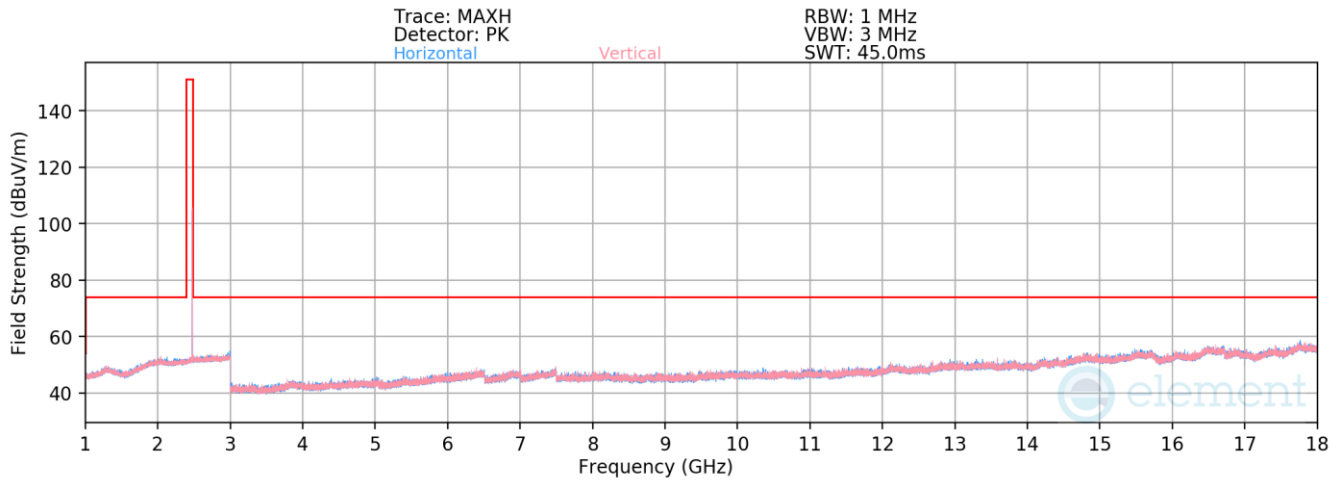
Plot 7-116. Radiated Spurious Emissions 1-18GHz Antenna WF9 (4Mbps, HDR4, ePA – Ch. 38)

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 [dBuV/m]	Limit [dBuV/m]	Margin [dB]
4882.00	Average	H	-	-	-77.53	4.32	33.79	53.98	-20.19
4882.00	Peak	H	-	-	-65.94	4.32	45.38	73.98	-28.60
7323.00	Average	H	-	-	-78.72	8.75	37.04	53.98	-16.94
7323.00	Peak	H	-	-	-67.23	8.75	48.52	73.98	-25.46
12205.00	Average	H	-	-	-80.86	12.28	38.43	53.98	-15.55
12205.00	Peak	H	-	-	-69.59	12.46	49.87	73.98	-24.11

Table 7-25. Radiated Spurious Emission Measurements Antenna WF9

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-05.BCG	Test Dates: 1/8/2024 - 3/14/2024	EUT Type: Tablet Device	Page 95 of 117



Plot 7-117. Radiated Spurious Emissions 1-18GHz Antenna WF9 (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 [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4952.00	Average	H	-	-	-78.51	4.46	32.95	53.98	-21.03
4952.00	Peak	H	-	-	-66.53	4.46	44.93	73.98	-29.05
7428.00	Average	H	-	-	-78.90	9.01	37.12	53.98	-16.86
7428.00	Peak	H	-	-	-67.08	8.67	48.59	73.98	-25.39
12380.00	Average	H	-	-	-80.85	12.29	38.44	53.98	-15.54
12380.00	Peak	H	-	-	-69.08	12.29	50.21	73.98	-23.77

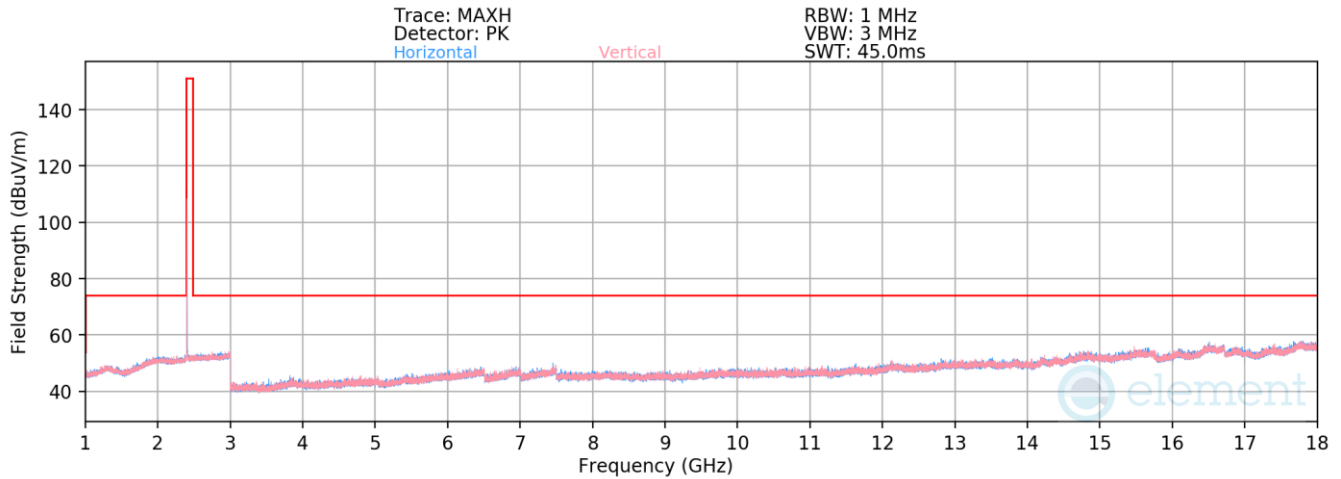
Table 7-26. Radiated Spurious Emission Measurements Antenna WF9

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-05.BCG	Test Dates: 1/8/2024 - 3/14/2024	EUT Type: Tablet Device	Page 96 of 117

Radiated Spurious Emission Measurements (1-18GHz)

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

TxBF



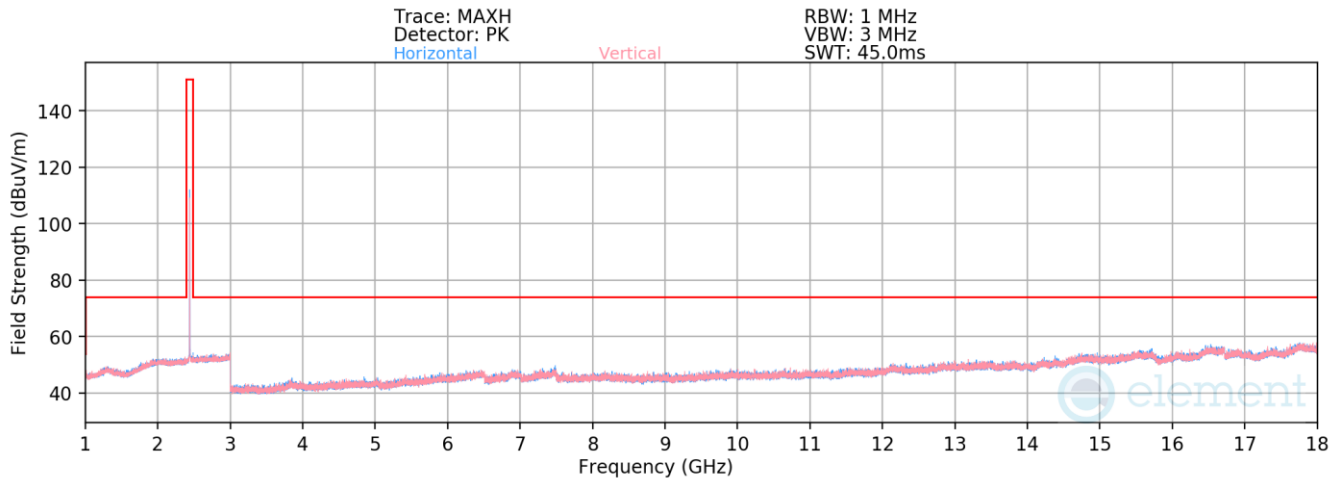
Plot 7-118. Radiated Spurious Emissions 1-18GHz TxBF (4Mbps, HDR4, ePA – Ch. 1)

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

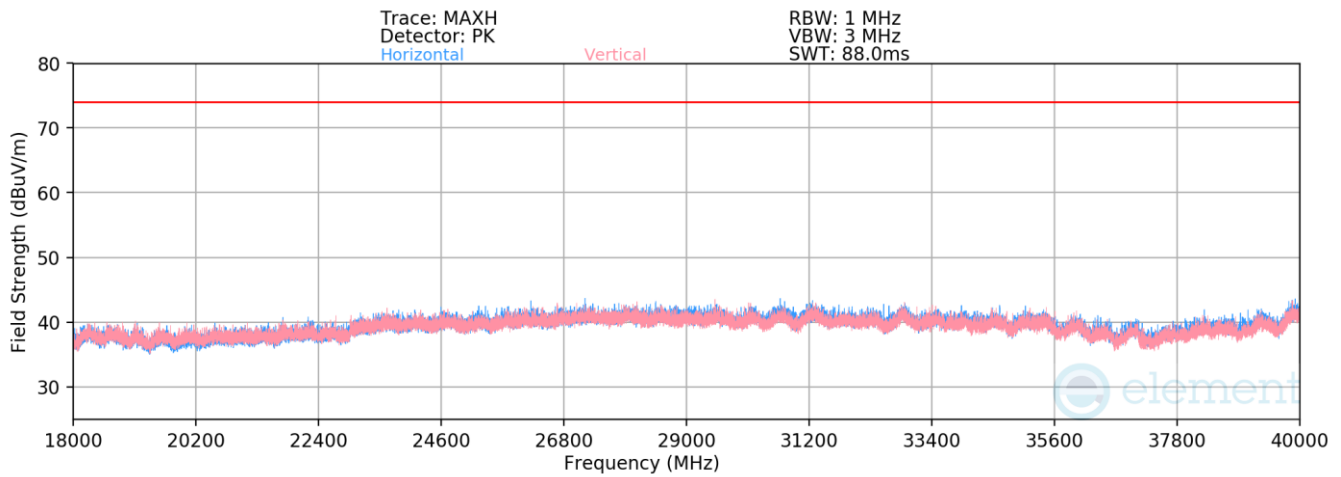
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4808.00	Average	V	-	-	-77.68	4.11	33.43	53.98	-20.55
4808.00	Peak	V	-	-	-66.15	4.22	45.06	73.98	-28.92
12020.00	Average	H	-	-	-80.91	11.97	38.07	53.98	-15.91
12020.00	Peak	H	-	-	-69.51	11.97	49.46	73.98	-24.52

Table 7-27. Radiated Spurious Emission Measurements TxBF

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-05.BCG	Test Dates: 1/8/2024 - 3/14/2024	EUT Type: Tablet Device	Page 97 of 117



Plot 7-119. Radiated Spurious Emissions 1-18GHz TxBF (4Mbps, HDR4, ePA – Ch. 38)



Plot 7-120. Radiated Spurious Emissions Above 18GHz TxBF (4Mbps, HDR4, ePA – Ch. 38)

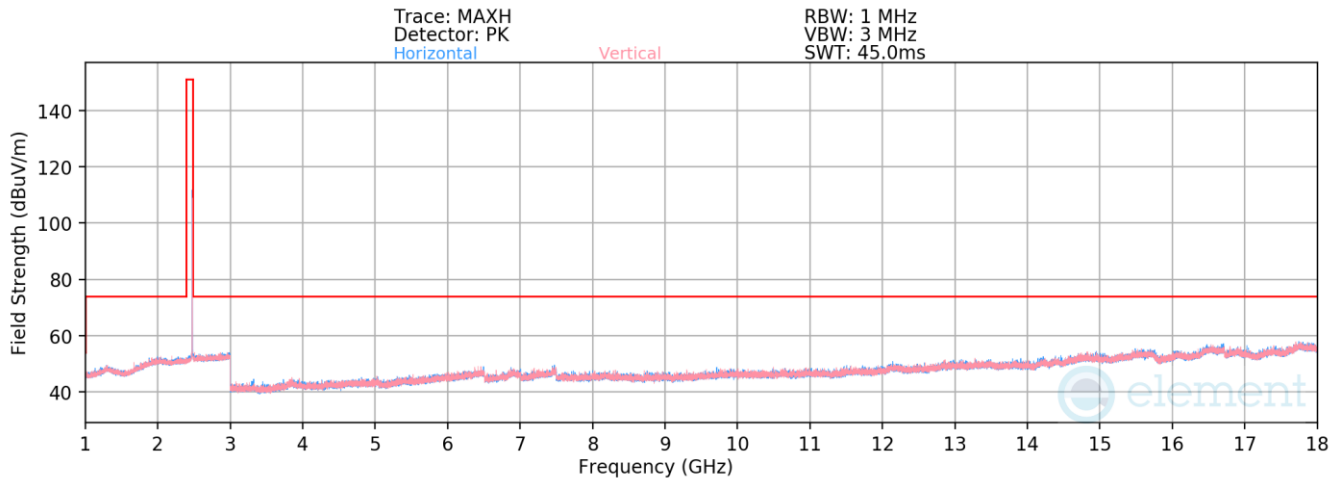
FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-05.BCG	Test Dates: 1/8/2024 - 3/14/2024	EUT Type: Tablet Device	Page 98 of 117

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 [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4882.00	Average	H	-	-	-77.80	4.32	33.53	53.98	-20.45
4882.00	Peak	H	-	-	-66.02	4.32	45.30	73.98	-28.68
7323.00	Average	H	-	-	-78.90	8.75	36.86	53.98	-17.12
7323.00	Peak	H	-	-	-67.48	8.75	48.27	73.98	-25.71
12205.00	Average	V	-	-	-80.81	12.28	38.47	53.98	-15.51
12205.00	Peak	V	-	-	-69.49	12.49	50.00	73.98	-23.98

Table 7-28. Radiated Spurious Emission Measurements TxBF

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-05.BCG	Test Dates: 1/8/2024 - 3/14/2024	EUT Type: Tablet Device	Page 99 of 117



Plot 7-121. Radiated Spurious Emissions 1-18GHz 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 [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4952.00	Average	V	-	-	-78.38	4.37	32.99	53.98	-20.99
4952.00	Peak	V	-	-	-66.64	4.39	44.75	73.98	-29.23
7428.00	Average	V	-	-	-79.02	9.01	37.00	53.98	-16.98
7428.00	Peak	V	-	-	-67.11	8.67	48.56	73.98	-25.42
12380.00	Average	V	-	-	-80.88	12.29	38.41	53.98	-15.57
12380.00	Peak	V	-	-	-69.11	12.29	50.18	73.98	-23.80

Table 7-29. Radiated Spurious Emission Measurements TxBF

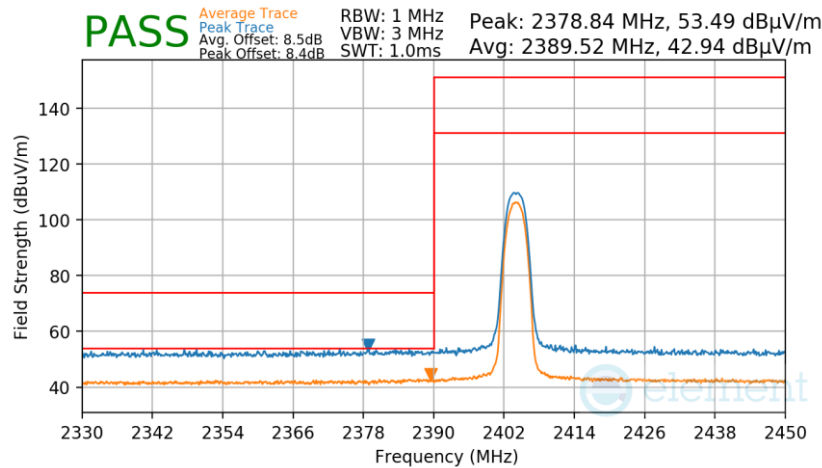
FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-05.BCG	Test Dates: 1/8/2024 - 3/14/2024	EUT Type: Tablet Device	Page 100 of 117

7.7.1 Radiated Restricted Band Edge Measurements

§15.205 §15.209; RSS-Gen [8.9]

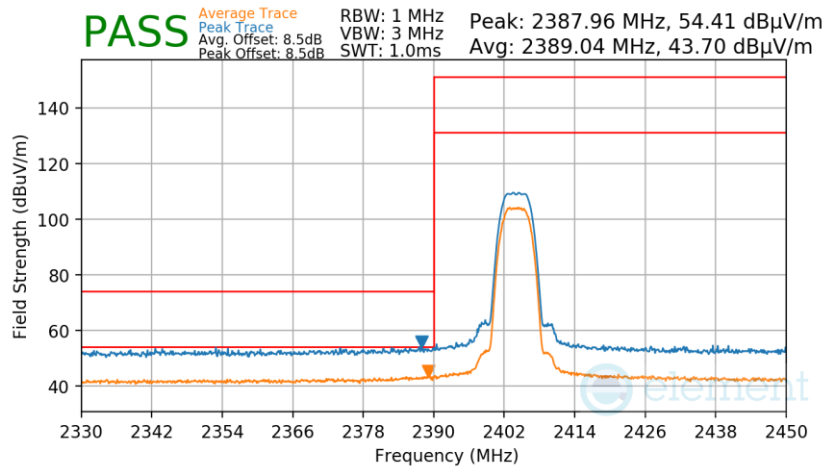
Antenna WF8

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



Plot 7-122. Radiated Restricted Lower Band Edge Measurement Antenna WF8

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



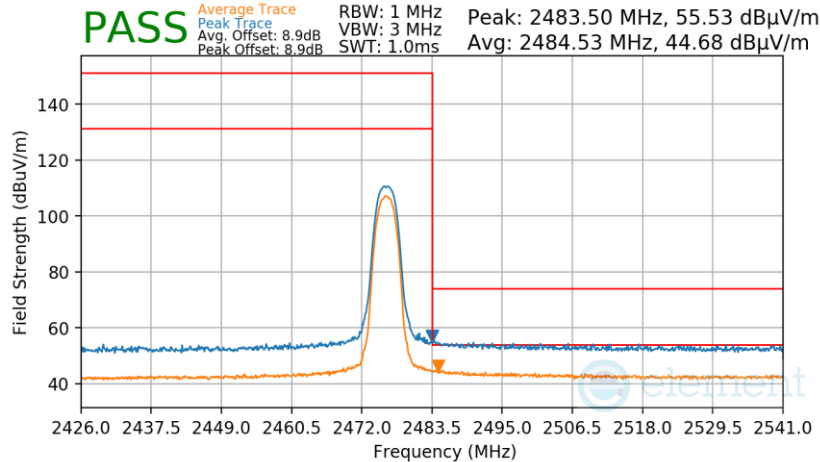
Plot 7-123. Radiated Restricted Lower Band Edge Measurement Antenna WF8

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-05.BCG	Test Dates: 1/8/2024 - 3/14/2024	EUT Type: Tablet Device	Page 101 of 117

Radiated Restricted Band Edge Measurements

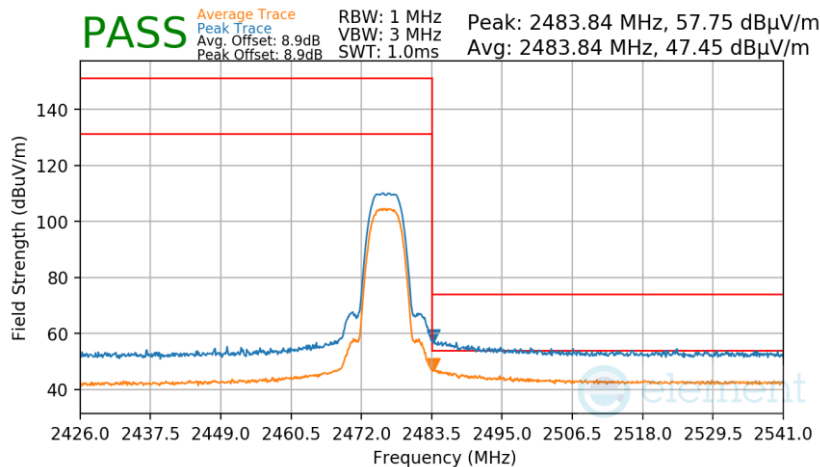
\$15.205 \$15.209; RSS-Gen [8.9]

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



Plot 7-124. Radiated Restricted Upper Band Edge Measurement Antenna WF8

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



Plot 7-125. Radiated Restricted Upper Band Edge Measurement Antenna WF8

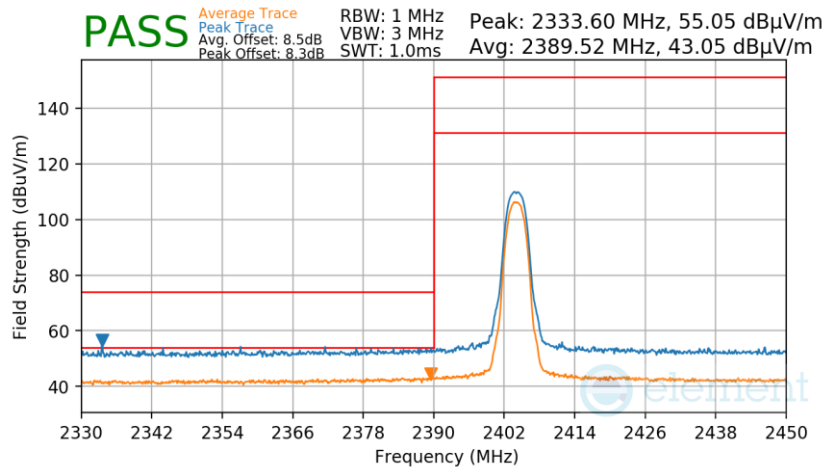
FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-05.BCG	Test Dates: 1/8/2024 - 3/14/2024	EUT Type: Tablet Device	Page 102 of 117

Radiated Restricted Band Edge Measurements

\$15.205 \$15.209; RSS-Gen [8.9]

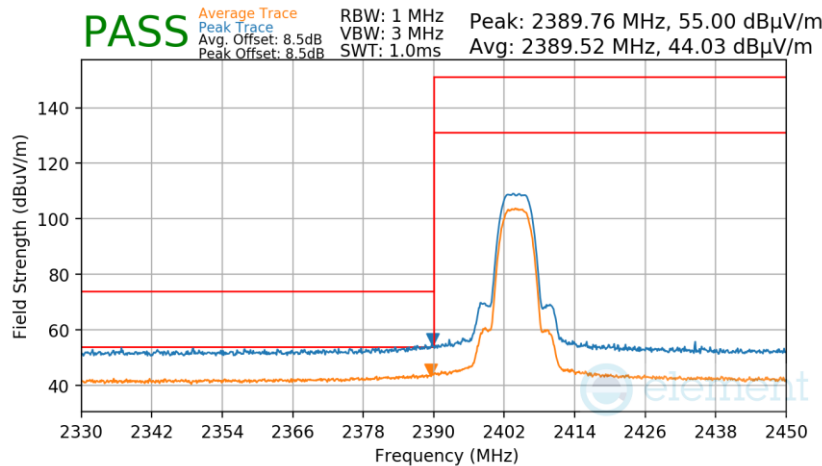
Antenna WF7

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



Plot 7-126. Radiated Restricted Lower Band Edge Measurement Antenna WF7

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



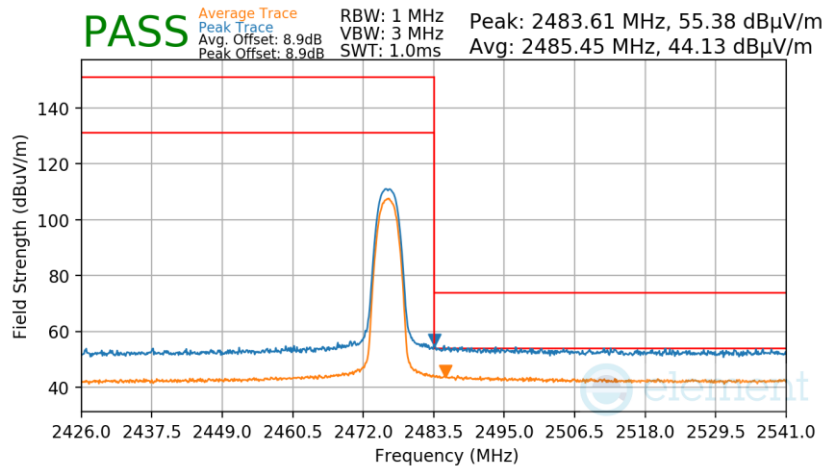
Plot 7-127. Radiated Restricted Lower Band Edge Measurement Antenna WF7

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-05.BCG	Test Dates: 1/8/2024 - 3/14/2024	EUT Type: Tablet Device	Page 103 of 117

Radiated Restricted Band Edge Measurements

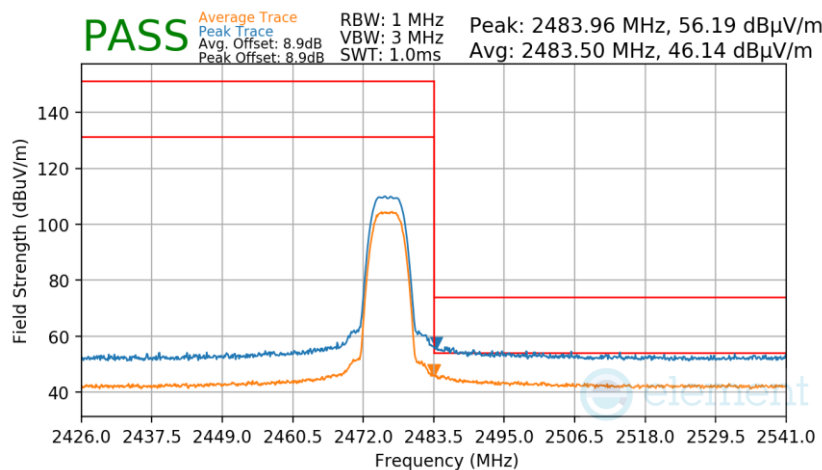
\$15.205 \$15.209; RSS-Gen [8.9]

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



Plot 7-128. Radiated Restricted Upper Band Edge Measurement Antenna WF7

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



Plot 7-129. Radiated Restricted Upper Band Edge Measurement Antenna WF7

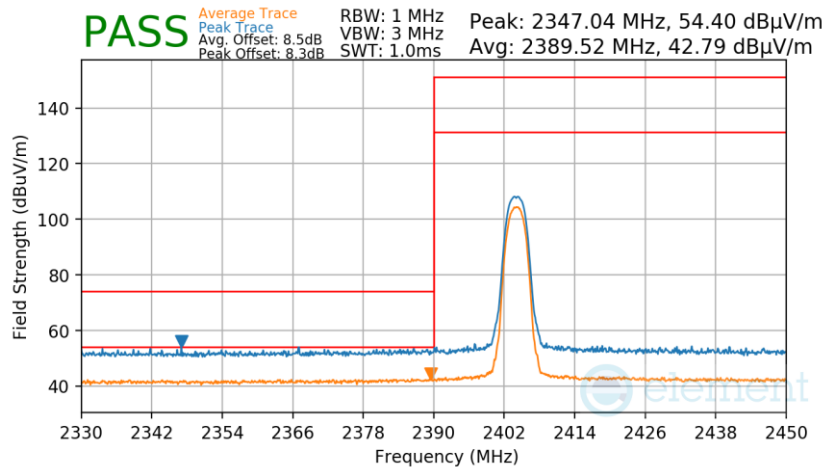
FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-05.BCG	Test Dates: 1/8/2024 - 3/14/2024	EUT Type: Tablet Device	Page 104 of 117

Radiated Restricted Band Edge Measurements

\$15.205 \$15.209; RSS-Gen [8.9]

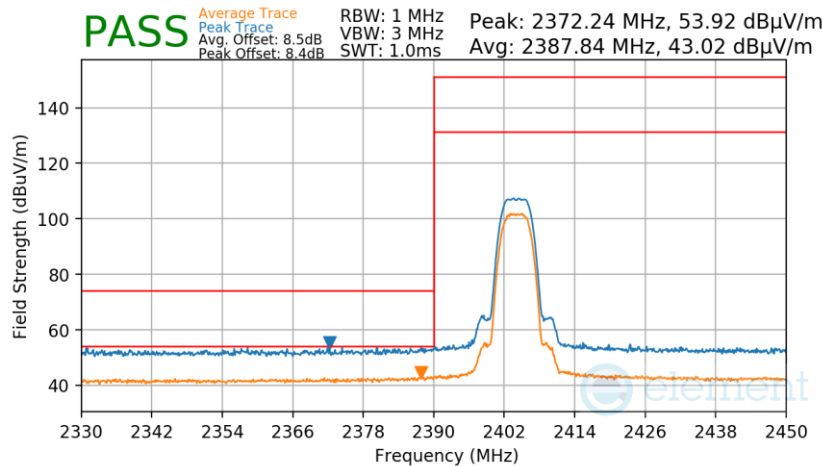
Antenna WF9

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



Plot 7-130. Radiated Restricted Lower Band Edge Measurement Antenna WF9

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



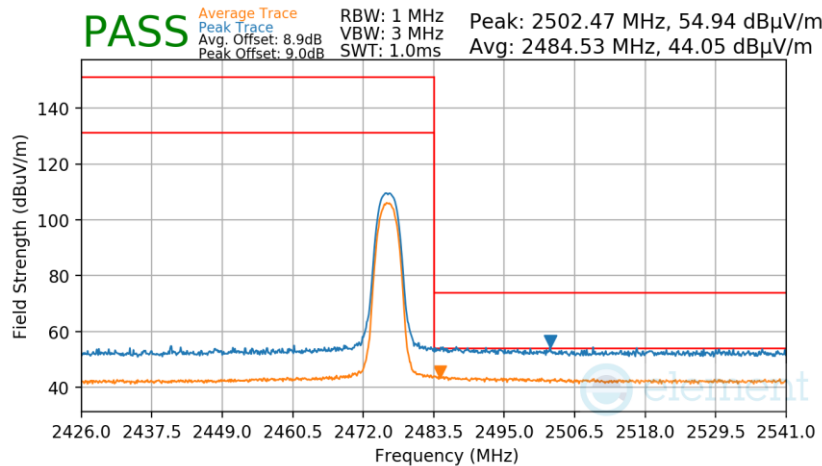
Plot 7-131. Radiated Restricted Lower Band Edge Measurement Antenna WF9

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-05.BCG	Test Dates: 1/8/2024 - 3/14/2024	EUT Type: Tablet Device	Page 105 of 117

Radiated Restricted Band Edge Measurements

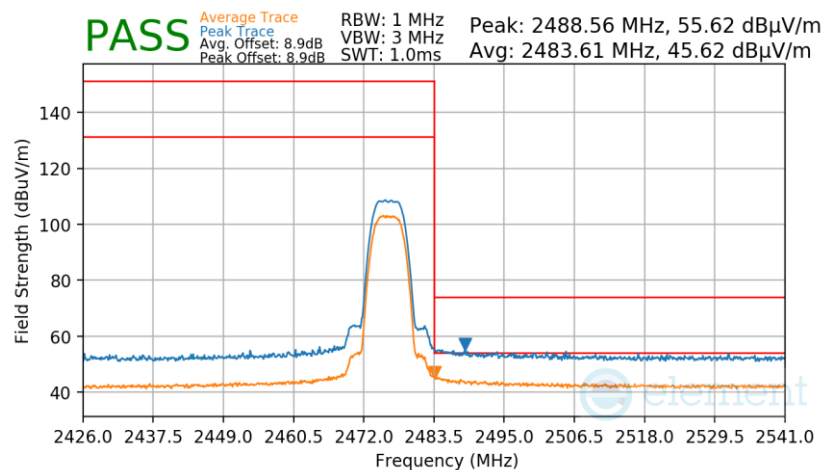
\$15.205 \$15.209; RSS-Gen [8.9]

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



Plot 7-132. Radiated Restricted Upper Band Edge Measurement Antenna WF9

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



Plot 7-133. Radiated Restricted Upper Band Edge Measurement Antenna WF9

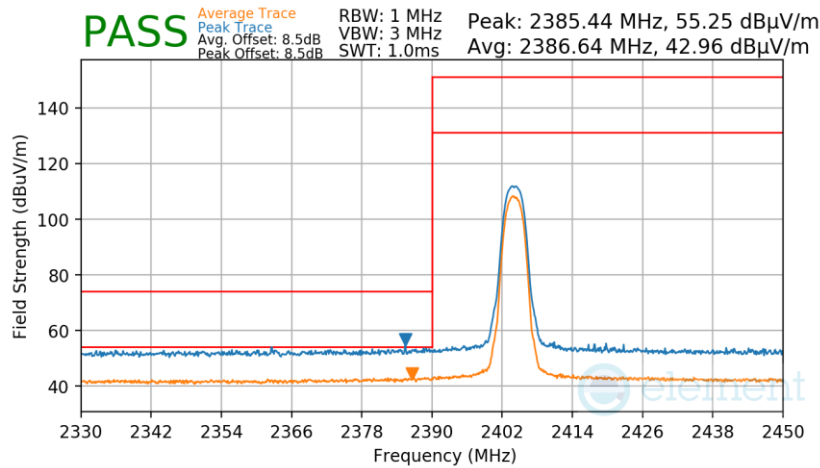
FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-05.BCG	Test Dates: 1/8/2024 - 3/14/2024	EUT Type: Tablet Device	Page 106 of 117

Radiated Restricted Band Edge Measurements

\$15.205 \$15.209; RSS-Gen [8.9]

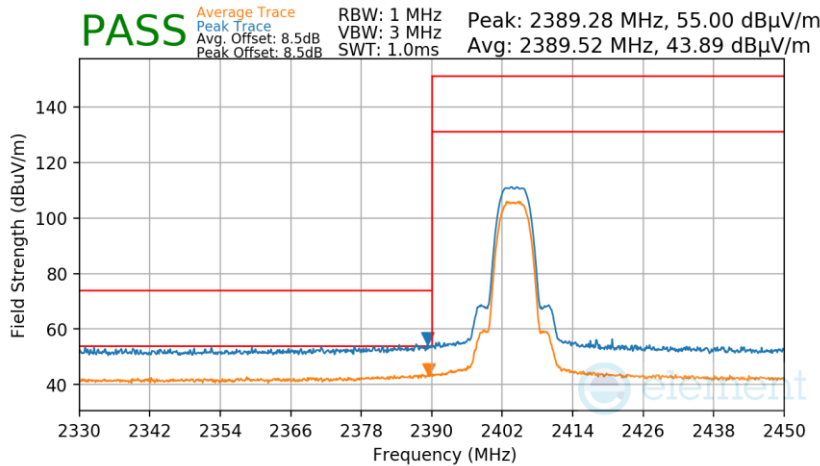
TxBF

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



Plot 7-134. Radiated Restricted Lower Band Edge Measurement TxBF

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



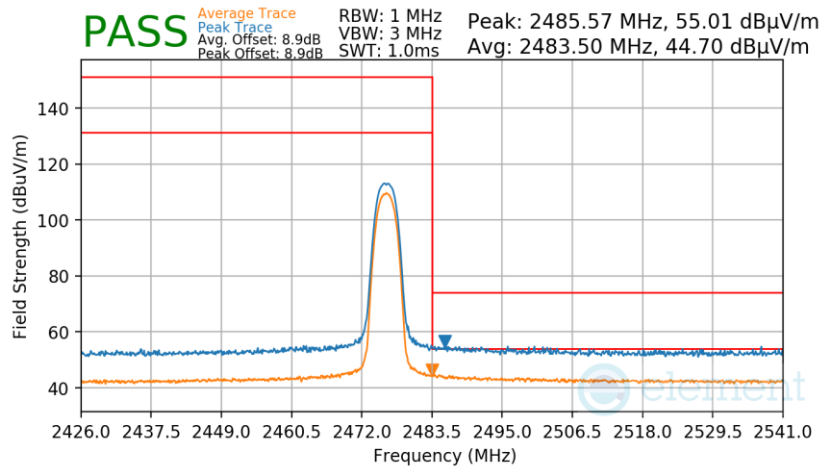
Plot 7-135. Radiated Restricted Lower Band Edge Measurement TxBF

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Radiated Restricted Band Edge Measurements

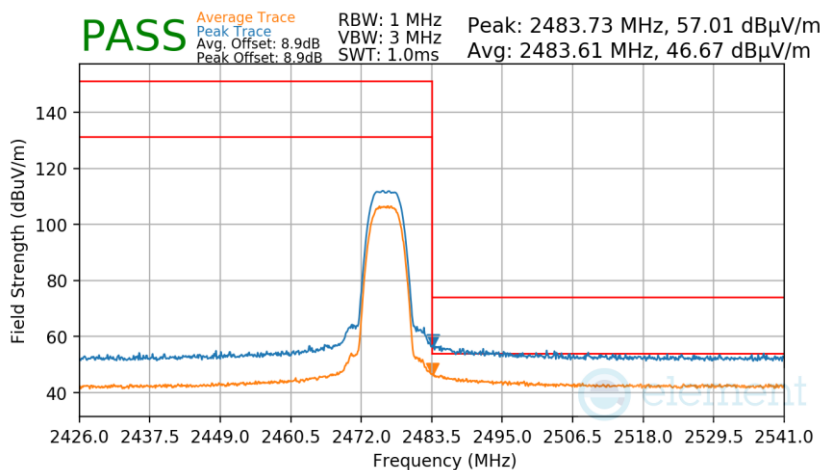
\$15.205 \$15.209; RSS-Gen [8.9]

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



Plot 7-136. Radiated Restricted Upper Band Edge Measurement TxBF

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



Plot 7-137. Radiated Restricted Upper Band Edge Measurement TxBF

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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 7-30 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 7-30. 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

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Test Setup

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

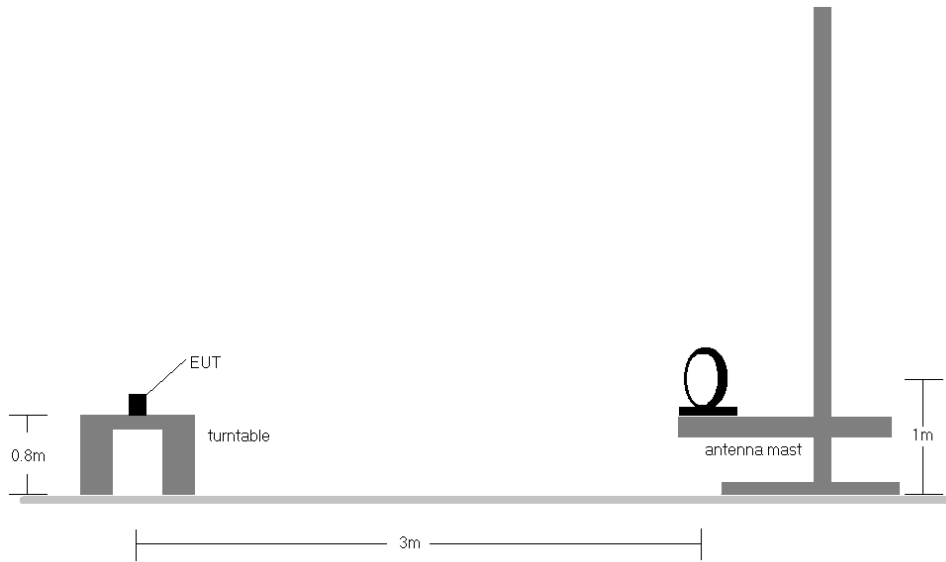


Figure 7-7. Radiated Test Setup < 30MHz

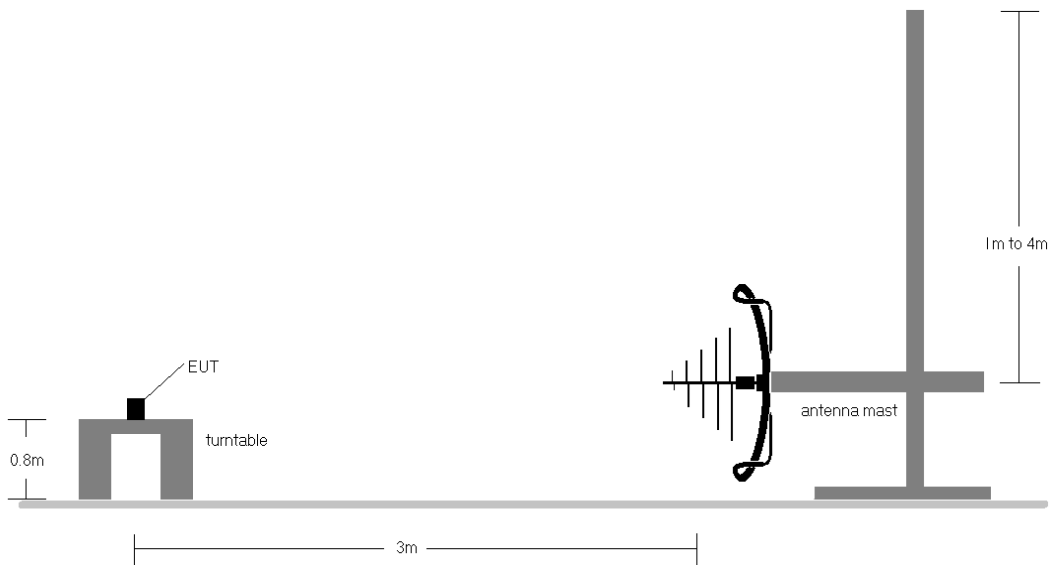


Figure 7-8. Radiated Test Setup < 1GHz

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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 7-30.
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

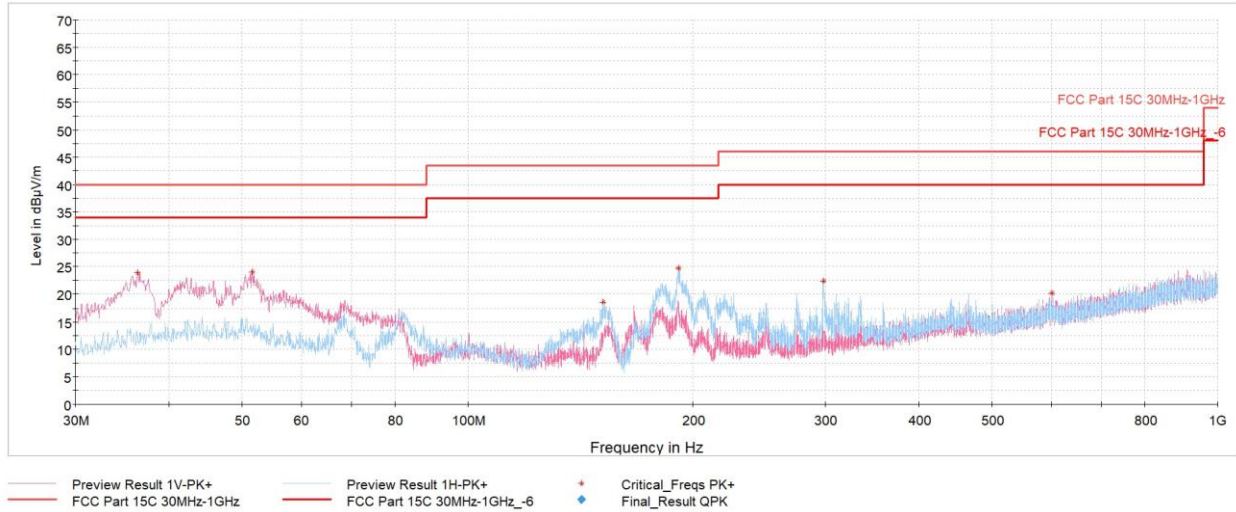
- Field Strength Level $_{[dB\mu V/m]} = \text{Analyzer Level }_{[dBm]} + 107 + \text{AFCL }_{[dB/m]}$
- $\text{AFCL }_{[dB/m]} = \text{Antenna Factor }_{[dB/m]} + \text{Cable Loss }_{[dB]} - \text{Preamplifier Gain }_{[dB]}$
- $\text{Margin }_{[dB]} = \text{Field Strength Level }_{[dB\mu V/m]} - \text{Limit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

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Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209; RSS-Gen [8.9]

TxBF



Plot 7-138. 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]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
36.35	MaxPeak	V	100	275	-67.80	-15.39	23.81	40.00	-16.19
51.63	MaxPeak	V	100	0	-69.88	-13.12	24.00	40.00	-16.00
151.54	MaxPeak	H	200	208	-68.25	-20.14	18.61	43.52	-24.91
191.31	MaxPeak	H	100	225	-64.89	-17.36	24.75	43.52	-18.77
298.11	MaxPeak	H	100	26	-70.00	-14.57	22.43	46.02	-23.59
601.77	MaxPeak	V	300	310	-79.27	-7.47	20.26	46.02	-25.76

Table 7-31. 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 7-32. 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.

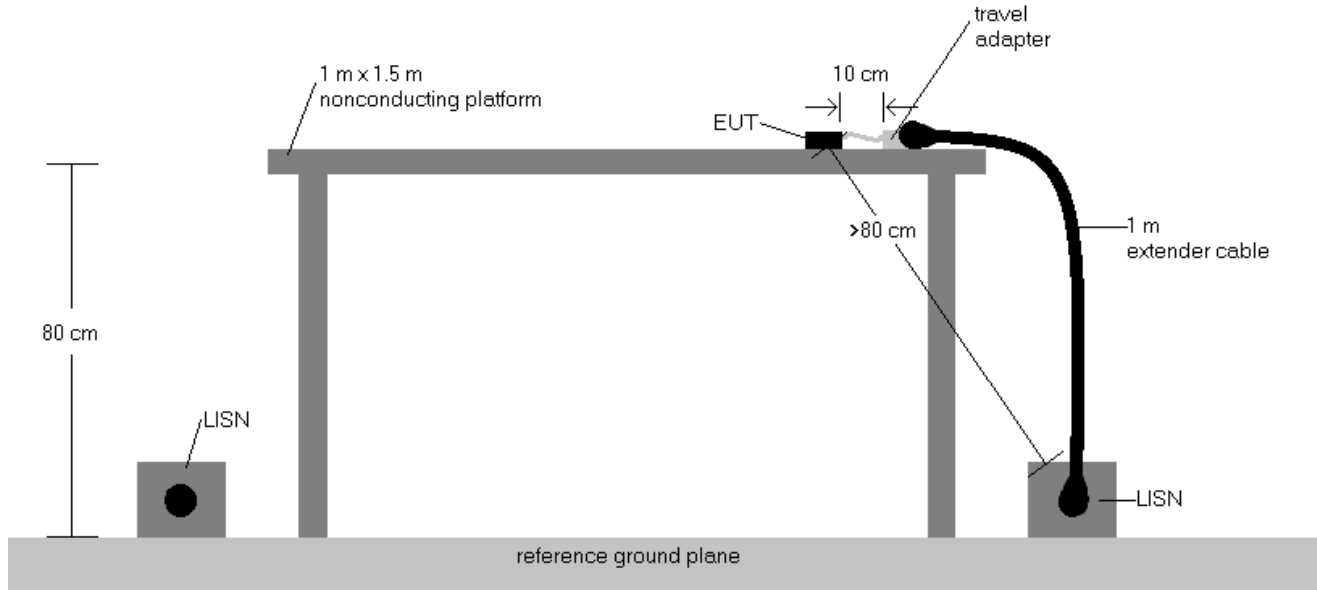


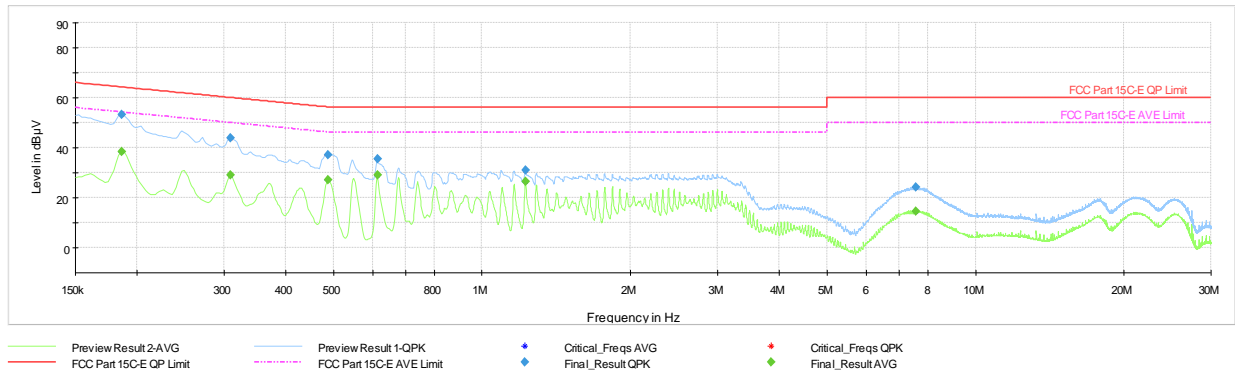
Figure 7-9. Test Instrument & Measurement Setup

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. $\text{Corr. (dB)} = \text{Cable loss (dB)} + \text{LISN insertion factor (dB)}$
5. $\text{QP/AV Level (dB}\mu\text{V)} = \text{QP/AV Analyzer/Receiver Level (dB}\mu\text{V)} + \text{Correction Factor (dB)}$
6. $\text{Margin (dB)} = \text{QP/AV Level (dB}\mu\text{V)} - \text{QP/AV Limit (dB}\mu\text{V)}$
7. Traces shown in plot are made using quasi peak and average detectors.
8. Deviations to the Specifications: None.

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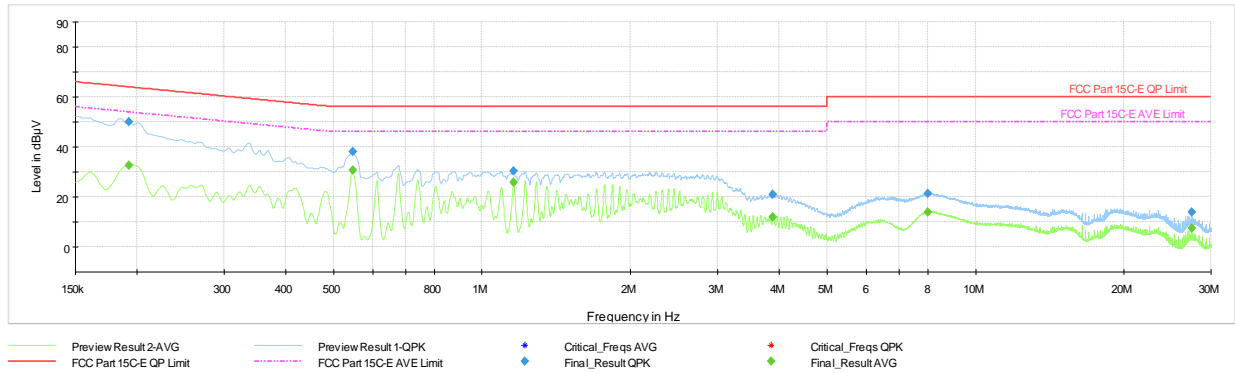


Plot 7-139. AC Line Conducted Plot with Bluetooth HDR TxBF (L1, 4Mbps ePA - Ch.38 with Laptop)

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.186	FINAL	—	38.48	54.21	-15.73	L1	GND
0.186	FINAL	53.2	—	64.21	-11.07	L1	GND
0.310	FINAL	—	28.96	49.98	-21.01	L1	GND
0.310	FINAL	44.0	—	59.98	-15.99	L1	GND
0.488	FINAL	—	27.19	46.21	-19.02	L1	GND
0.488	FINAL	37.2	—	56.21	-18.99	L1	GND
0.614	FINAL	35.4	—	56.00	-20.65	L1	GND
0.614	FINAL	—	29.08	46.00	-16.92	L1	GND
1.226	FINAL	30.9	—	56.00	-25.10	L1	GND
1.226	FINAL	—	26.38	46.00	-19.62	L1	GND
7.575	FINAL	—	14.64	50.00	-35.36	L1	GND
7.575	FINAL	24.1	—	60.00	-35.93	L1	GND

Table 7-33. AC Line Conducted Data with Bluetooth HDR TxBF (L1, 4Mbps ePA - Ch.38 with Laptop)

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Plot 7-140. AC Line Conducted Plot with Bluetooth HDR TxBF (N, 4Mbps ePA - Ch.38 with Laptop)

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.193	FINAL	—	32.52	53.92	-21.40	N	GND
0.193	FINAL	50.0	—	63.92	-13.91	N	GND
0.548	FINAL	—	30.64	46.00	-15.36	N	GND
0.548	FINAL	37.9	—	56.00	-18.09	N	GND
1.158	FINAL	—	25.65	46.00	-20.35	N	GND
1.158	FINAL	30.4	—	56.00	-25.63	N	GND
3.887	FINAL	21.0	—	56.00	-35.01	N	GND
3.887	FINAL	—	11.91	46.00	-34.09	N	GND
7.994	FINAL	21.2	—	60.00	-38.81	N	GND
7.994	FINAL	—	13.80	50.00	-36.20	N	GND
27.389	FINAL	—	7.57	50.00	-42.43	N	GND
27.389	FINAL	13.7	—	60.00	-46.28	N	GND

Table 7-34. AC Line Conducted Data with Bluetooth HDR TxBF (N, 4Mbps ePA - Ch.38 with Laptop)

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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: BCGA2836 and IC: 579C-A2836** 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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