

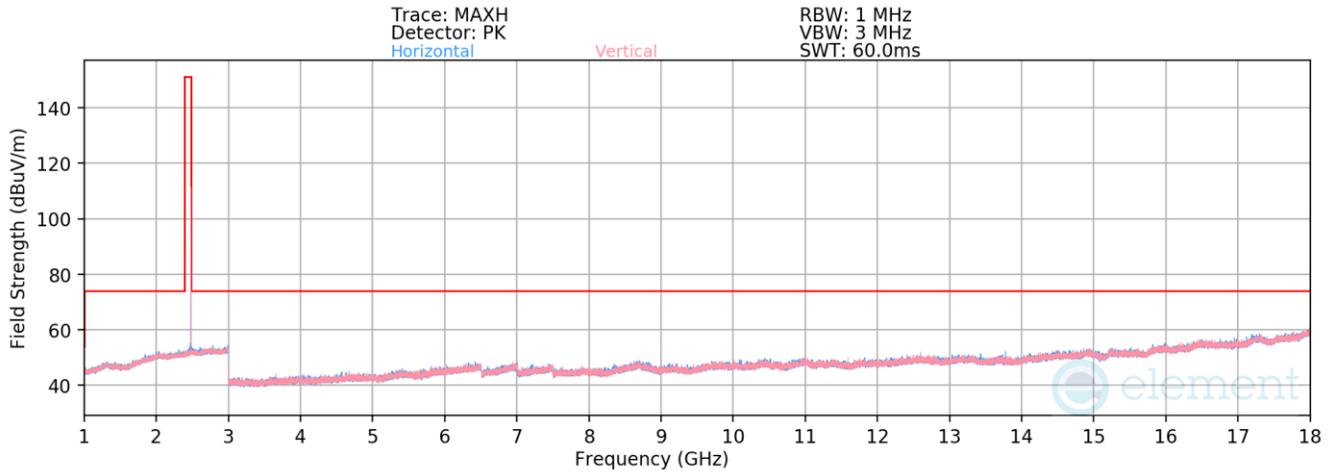
**Plot 7-116. Radiated Spurious Emissions 1-18GHz Antenna WF9 (1Mbps, ePA – Ch. 19)**

Bluetooth Mode: LE  
 Data Rate: 1Mbps  
 Power Scheme: ePA  
 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 [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4880.00	Avg	-	-	-	-78.26	4.57	33.31	53.98	-20.67
4880.00	Peak	-	-	-	-66.82	4.57	44.75	73.98	-29.23
7320.00	Avg	-	-	-	-79.51	8.30	35.79	53.98	-18.19
7320.00	Peak	-	-	-	-68.24	8.30	47.06	73.98	-26.92
12200.00	Avg	-	-	-	-81.10	13.14	39.04	53.98	-14.94
12200.00	Peak	-	-	-	-70.02	13.14	50.12	73.98	-23.86

**Table 7-25. Radiated Measurements Antenna WF9**

FCC ID: BCGA2925 IC: 579C-A2925		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270069-06.BCG	Test Dates: 11/29/2023 - 3/11/2024	EUT Type: Tablet Device	Page 95 of 125



**Plot 7-117. Radiated Spurious Emissions 1-18GHz Antenna WF9 (1Mbps ePA – Ch. 39)**

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

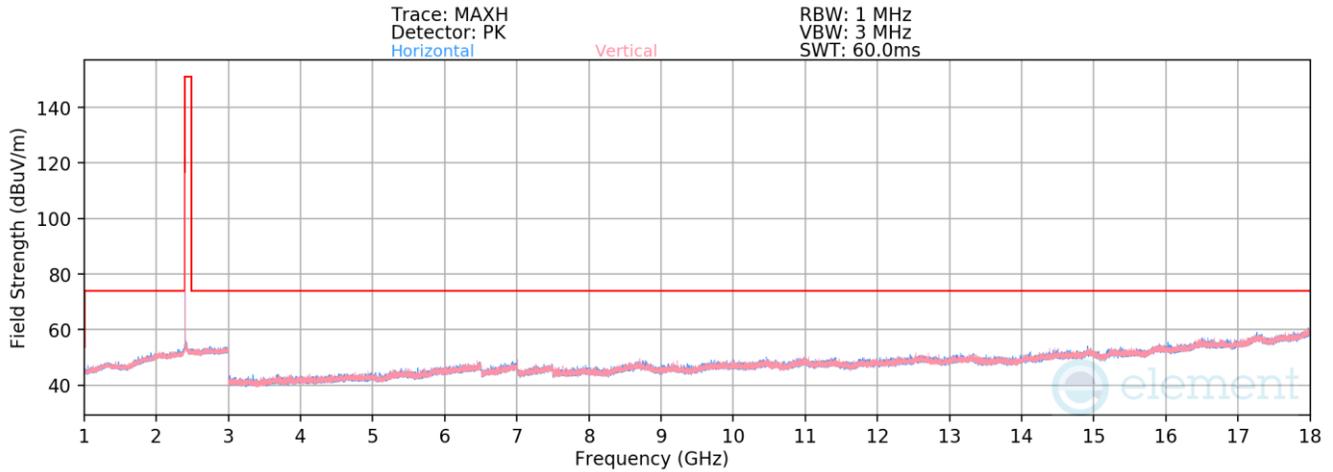
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4960.00	Avg	-	-	-	-78.71	4.85	33.14	53.98	-20.84
4960.00	Peak	-	-	-	-67.05	4.85	44.80	73.98	-29.18
7440.00	Avg	-	-	-	-79.53	8.27	35.74	53.98	-18.24
7440.00	Peak	-	-	-	-67.58	8.27	47.69	73.98	-26.29
12400.00	Avg	-	-	-	-81.64	13.43	38.79	53.98	-15.19
12400.00	Peak	-	-	-	-69.47	13.43	50.96	73.98	-23.02

**Table 7-26. Radiated Measurements Antenna WF9**

FCC ID: BCGA2925 IC: 579C-A2925		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270069-06.BCG	Test Dates: 11/29/2023 - 3/11/2024	EUT Type: Tablet Device	Page 96 of 125

### 7.7.4 TxBF Radiated Spurious Emission Measurements (1-18GHz)

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



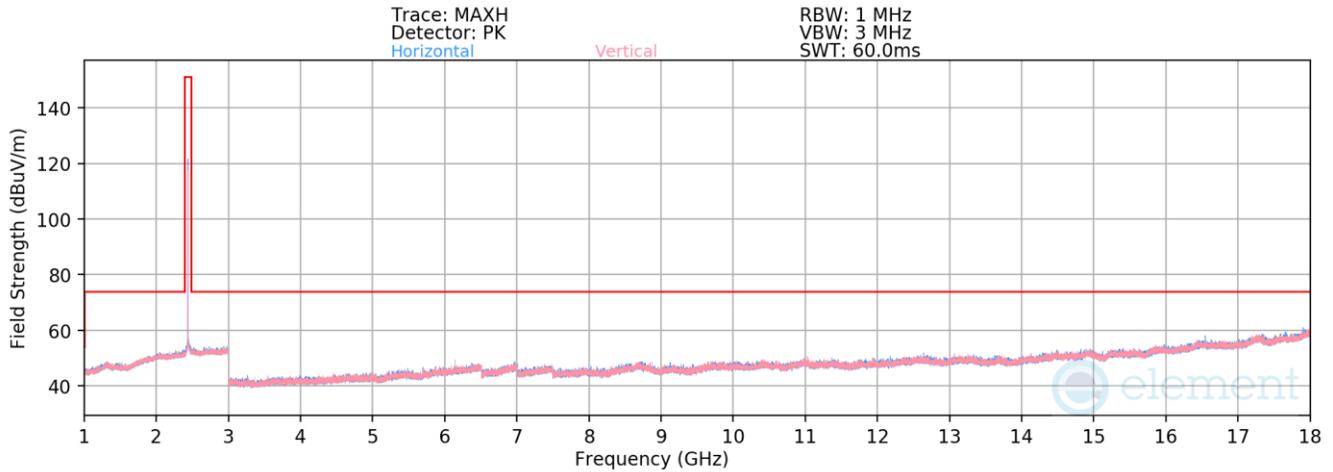
**Plot 7-118. Radiated Spurious Emissions 1-18GHz TxBF (1Mbps, ePA – Ch. 0)**

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

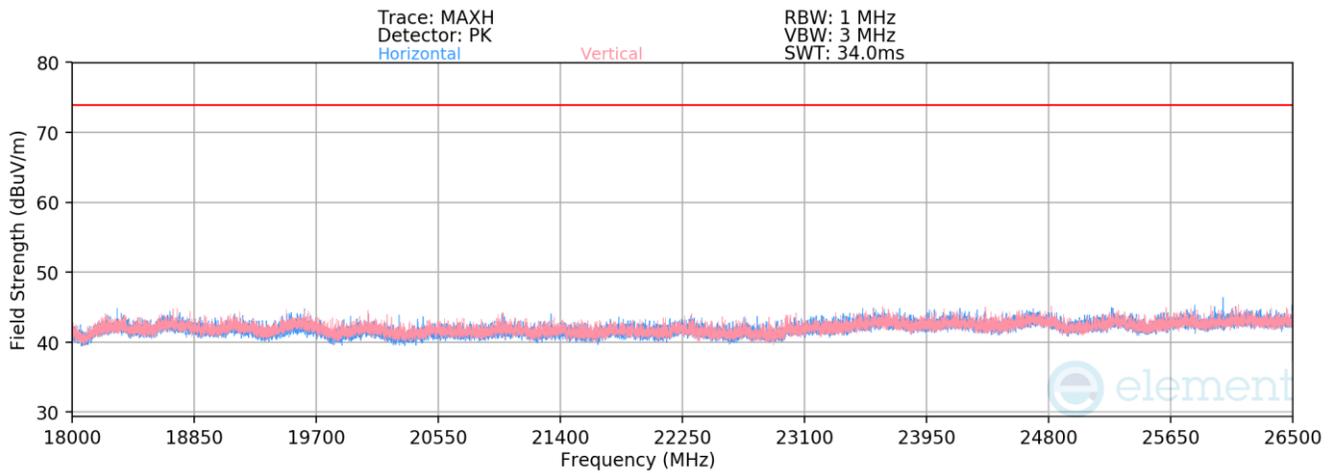
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4804.00	Avg	-	-	-	-78.57	4.73	33.16	53.98	-20.82
4804.00	Peak	-	-	-	-67.08	4.73	44.65	73.98	-29.33
12010.00	Avg	-	-	-	-81.08	12.74	38.66	53.98	-15.32
12010.00	Peak	-	-	-	-69.10	12.74	50.64	73.98	-23.34

**Table 7-27. Radiated Measurements TxBF**

FCC ID: BCGA2925 IC: 579C-A2925		<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Technical Manager
Test Report S/N: 1C2311270069-06.BCG	Test Dates: 11/29/2023 - 3/11/2024	EUT Type: Tablet Device		Page 97 of 125



**Plot 7-119. Radiated Spurious Emissions 1-18GHz TxBF (1Mbps, ePA – Ch. 19)**



**Plot 7-120. Radiated Spurious Emissions Above 18GHz TxBF (1Mbps, ePA – Ch. 19)**

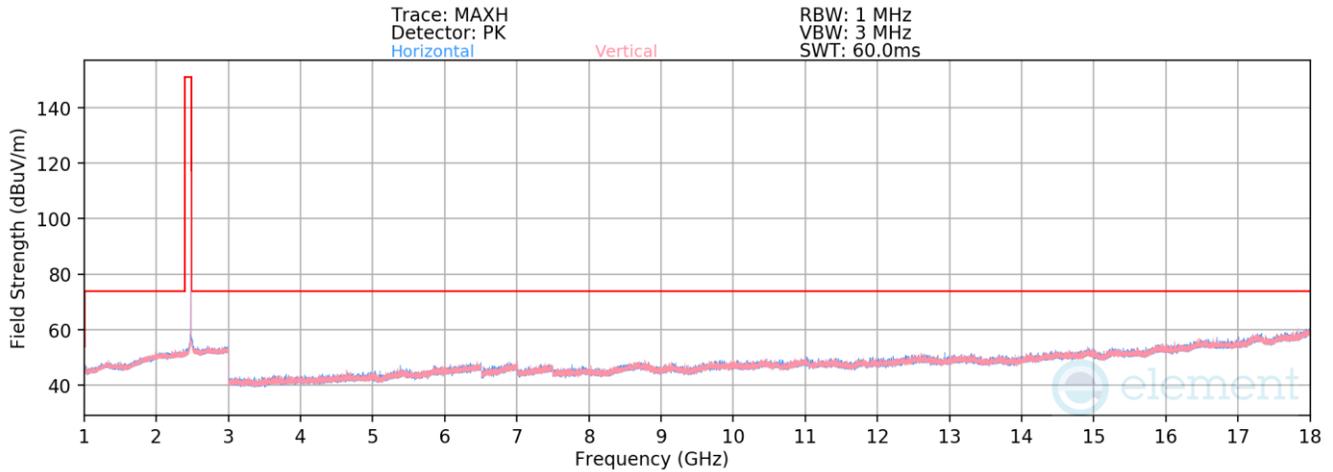
FCC ID: BCGA2925 IC: 579C-A2925		<b>MEASUREMENT REPORT (CERTIFICATION)</b>	<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1C2311270069-06.BCG	<b>Test Dates:</b> 11/29/2023 - 3/11/2024	<b>EUT Type:</b> Tablet Device	Page 98 of 125

Bluetooth Mode: LE  
 Data Rate: 1Mbps  
 Power Scheme: ePA  
 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 [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4880.00	Avg	-	-	-	-78.29	4.57	33.28	53.98	-20.70
4880.00	Peak	-	-	-	-65.91	4.57	45.66	73.98	-28.32
7320.00	Avg	-	-	-	-79.42	8.30	35.88	53.98	-18.10
7320.00	Peak	-	-	-	-67.32	8.30	47.98	73.98	-26.00
12200.00	Avg	-	-	-	-81.06	13.14	39.08	53.98	-14.90
12200.00	Peak	-	-	-	-69.75	13.14	50.39	73.98	-23.59

**Table 7-28. Radiated Measurements TxBF**

FCC ID: BCGA2925 IC: 579C-A2925		<b>MEASUREMENT REPORT (CERTIFICATION)</b>	<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1C2311270069-06.BCG	<b>Test Dates:</b> 11/29/2023 - 3/11/2024	<b>EUT Type:</b> Tablet Device	Page 99 of 125



**Plot 7-121. Radiated Spurious Emissions 1-18GHz TxBF (1Mbps ePA – Ch. 39)**

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

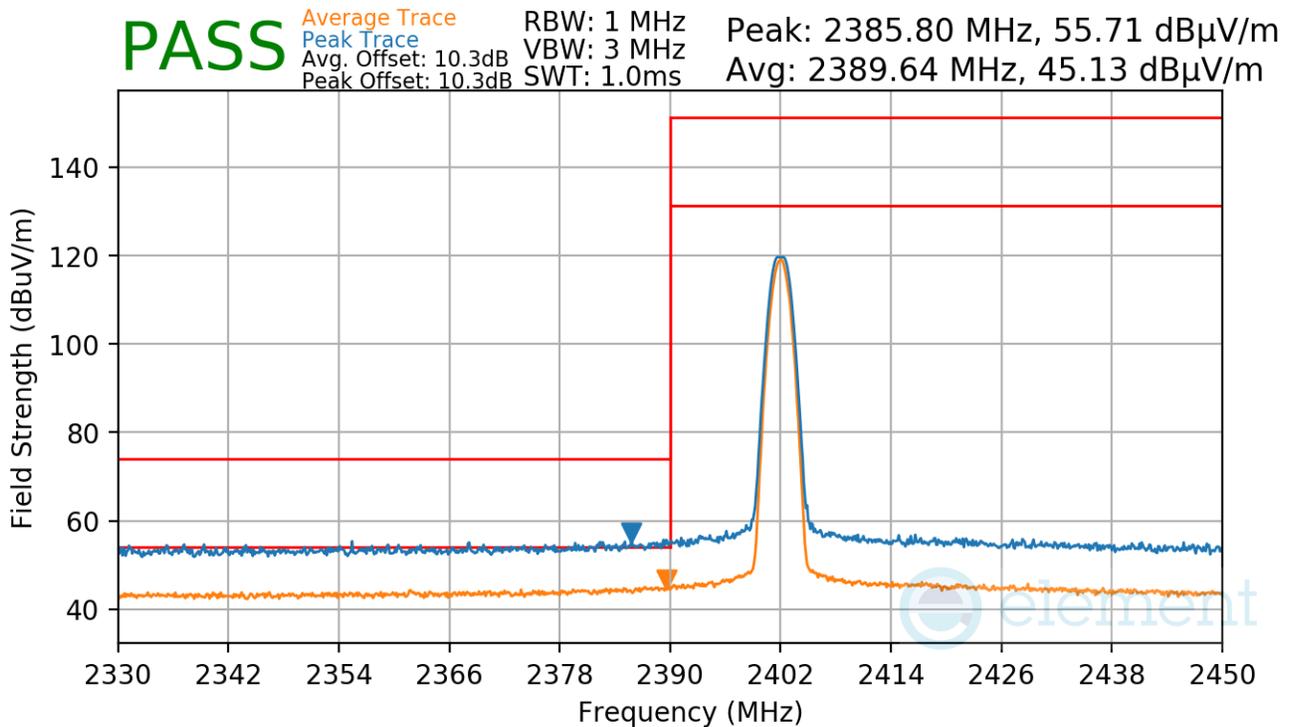
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4960.00	Avg	-	-	-	-78.60	4.85	33.25	53.98	-20.73
4960.00	Peak	-	-	-	-67.20	4.85	44.65	73.98	-29.33
7440.00	Avg	-	-	-	-79.43	8.27	35.84	53.98	-18.14
7440.00	Peak	-	-	-	-67.60	8.27	47.67	73.98	-26.31
12400.00	Avg	-	-	-	-81.48	13.43	38.95	53.98	-15.03
12400.00	Peak	-	-	-	-69.46	13.43	50.97	73.98	-23.01

**Table 7-29. Radiated Measurements TxBF**

FCC ID: BCGA2925 IC: 579C-A2925		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270069-06.BCG	Test Dates: 11/29/2023 - 3/11/2024	EUT Type: Tablet Device	Page 100 of 125

**7.7.5 Radiated Restricted Band Edge Measurements**  
§15.205 §15.209; RSS-Gen [8.9]  
**Antenna WF8**

Bluetooth Mode:	LE
Data Rate:	1Mbps
Power Scheme:	ePA
Measurement Distance:	3 Meters
Operating Frequency:	2402MHz
Channel:	0



**Plot 7-122. Radiated Restricted Lower Band Edge Measurement Antenna WF8 (Average & Peak)**

FCC ID: BCGA2925 IC: 579C-A2925		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270069-06.BCG	Test Dates: 11/29/2023 - 3/11/2024	EUT Type: Tablet Device	Page 101 of 125

Bluetooth Mode: LE

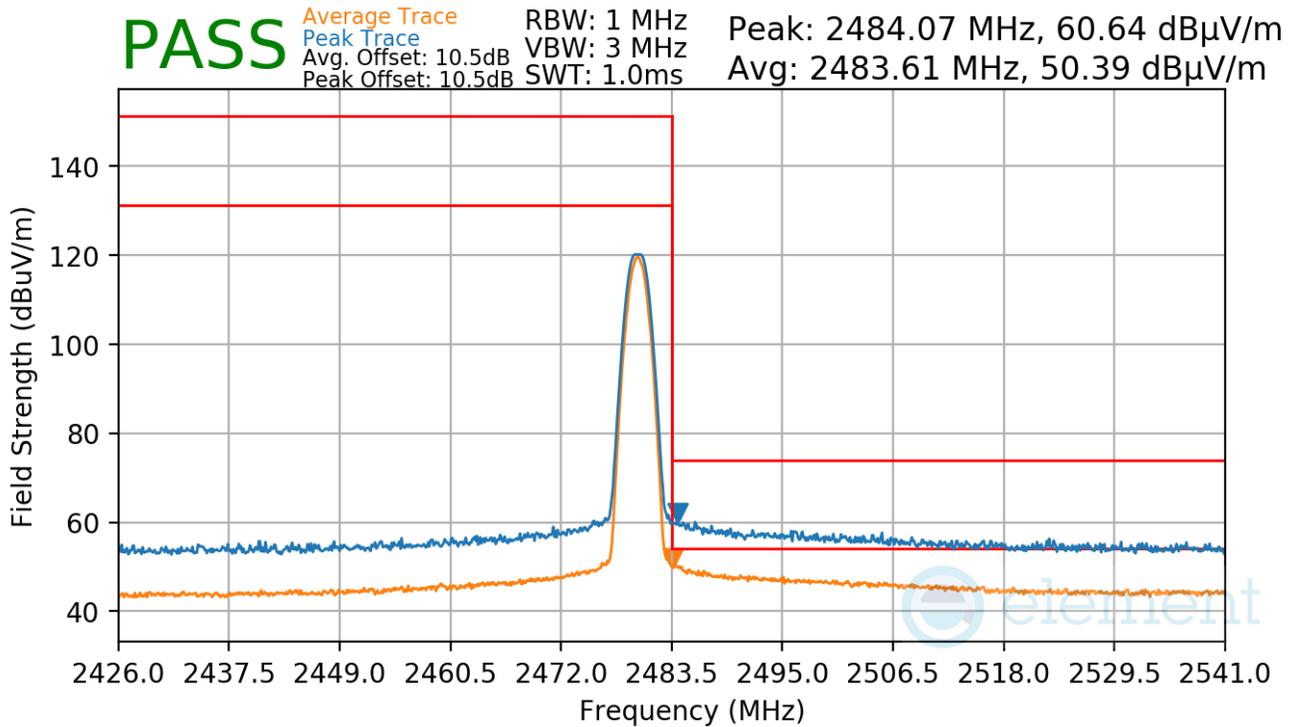
Data Rate: 1Mbps

Power Scheme: ePA

Measurement Distance: 3 Meters

Operating Frequency: 2480MHz

Channel: 39



**Plot 7-123. Radiated Restricted Upper Band Edge Measurement Antenna WF8 (Average & Peak)**

FCC ID: BCGA2925 IC: 579C-A2925		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270069-06.BCG	Test Dates: 11/29/2023 - 3/11/2024	EUT Type: Tablet Device	Page 102 of 125

Bluetooth Mode: LE

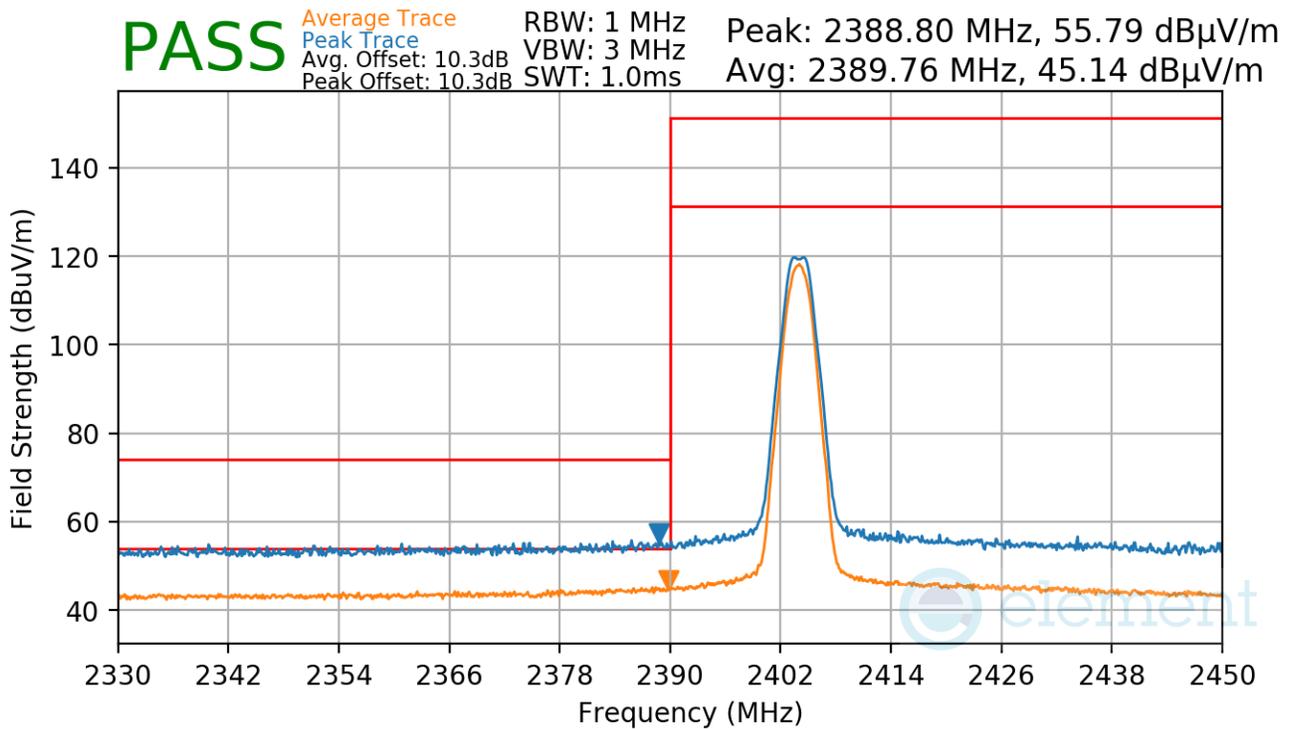
Data Rate: 2Mbps

Power Scheme: ePA

Measurement Distance: 3 Meters

Operating Frequency: 2404MHz

Channel: 1



**Plot 7-124. Radiated Restricted Lower Band Edge Measurement Antenna WF8 (Average & Peak)**

FCC ID: BCGA2925 IC: 579C-A2925		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270069-06.BCG	Test Dates: 11/29/2023 - 3/11/2024	EUT Type: Tablet Device	Page 103 of 125

Bluetooth Mode: LE

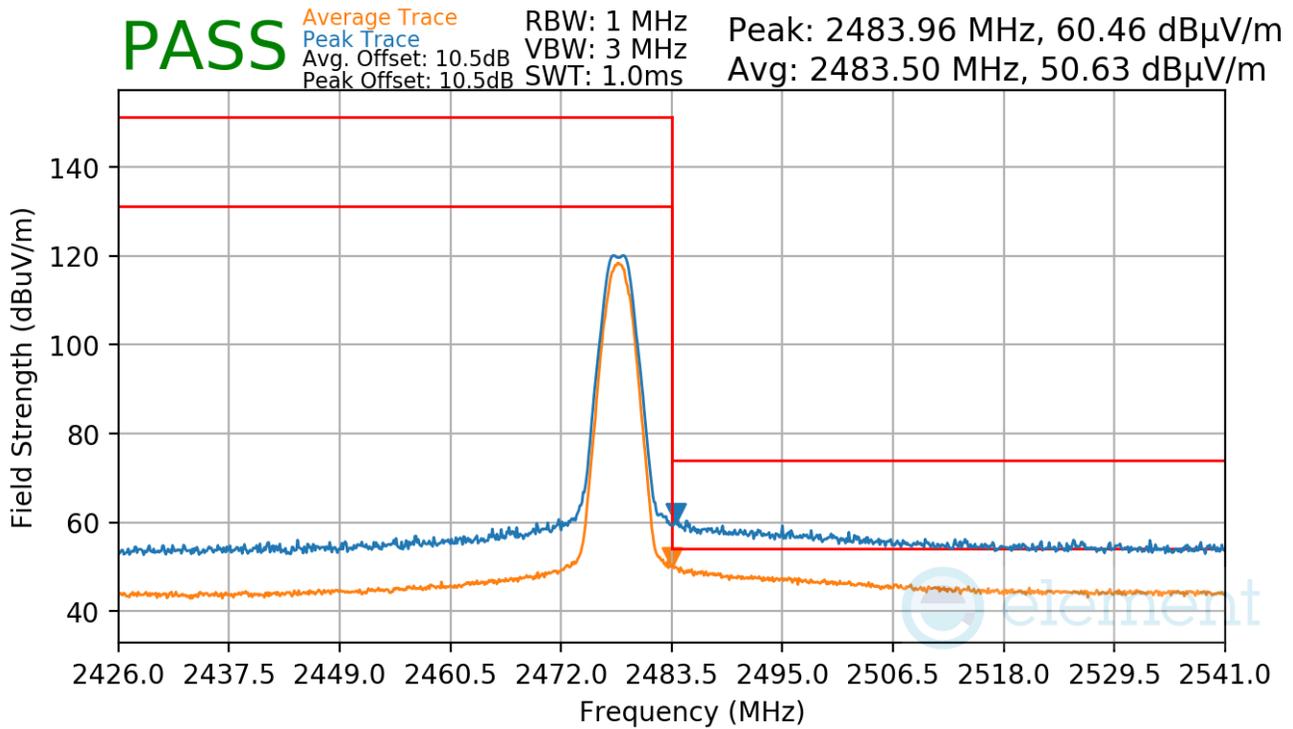
Data Rate: 2Mbps

Power Scheme: ePA

Measurement Distance: 3 Meters

Operating Frequency: 2478MHz

Channel: 38



**Plot 7-125. Radiated Restricted Upper Band Edge Measurement Antenna WF8 (Average & Peak)**

FCC ID: BCGA2925 IC: 579C-A2925		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270069-06.BCG	Test Dates: 11/29/2023 - 3/11/2024	EUT Type: Tablet Device	Page 104 of 125

### Antenna WF7

Bluetooth Mode: LE

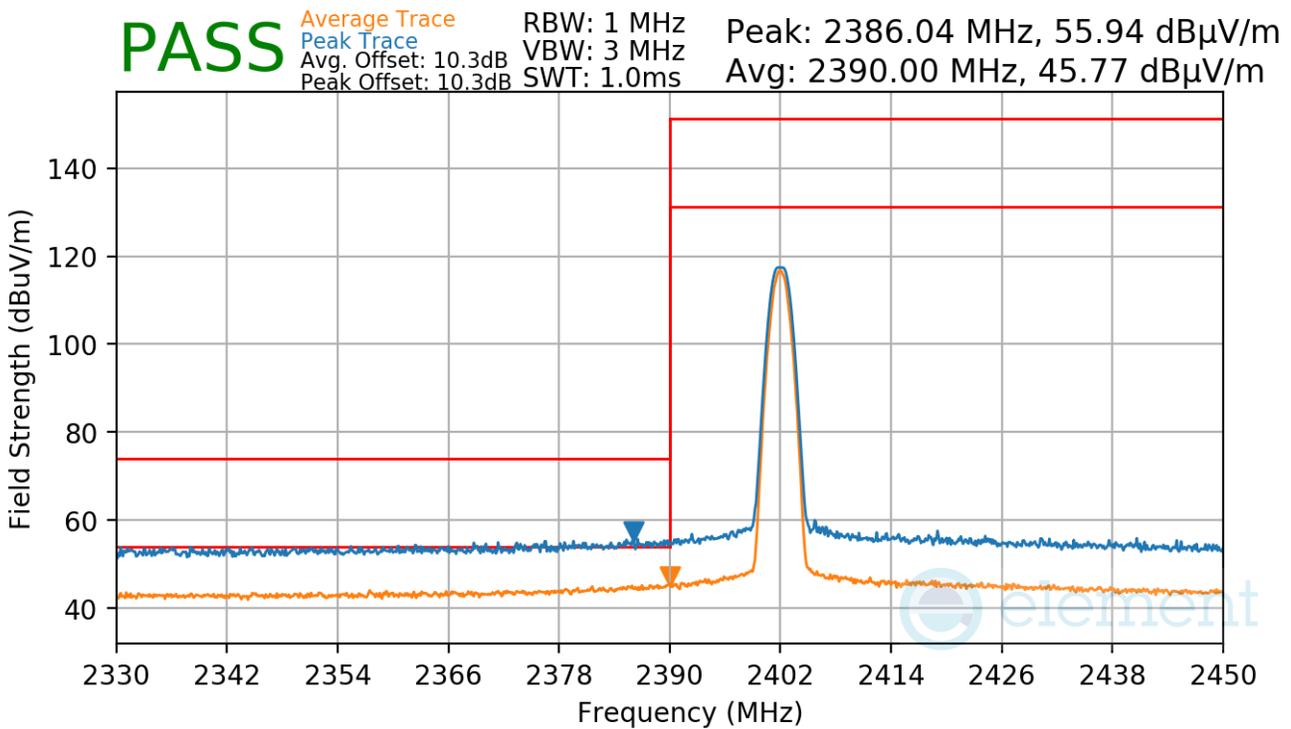
Data Rate: 1Mbps

Power Scheme: ePA

Measurement Distance: 3 Meters

Operating Frequency: 2402MHz

Channel: 0



**Plot 7-126. Radiated Restricted Lower Band Edge Measurement Antenna WF7 (Average & Peak)**

FCC ID: BCGA2925 IC: 579C-A2925		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270069-06.BCG	Test Dates: 11/29/2023 - 3/11/2024	EUT Type: Tablet Device	Page 105 of 125

V 10.6 09/12/2023

Bluetooth Mode: LE

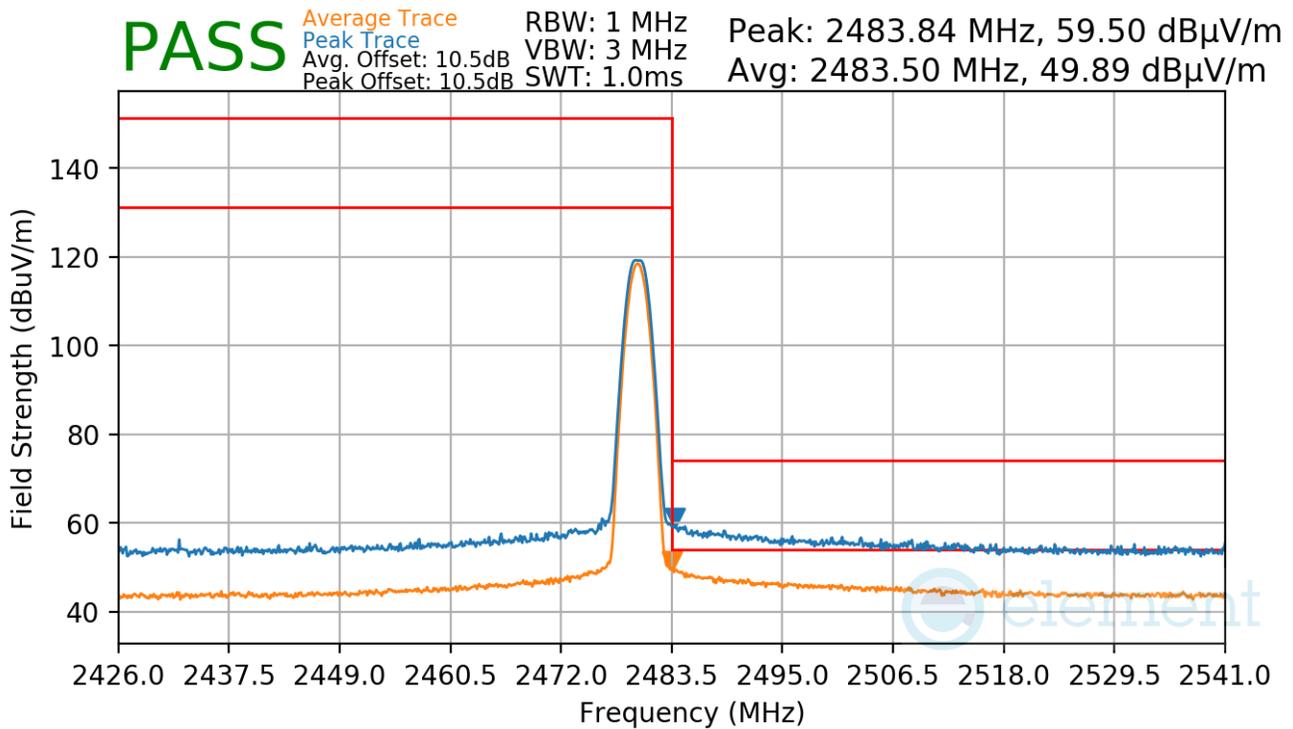
Data Rate: 1Mbps

Power Scheme: ePA

Measurement Distance: 3 Meters

Operating Frequency: 2480MHz

Channel: 39



**Plot 7-127. Radiated Restricted Upper Band Edge Measurement Antenna WF7 (Average & Peak)**

FCC ID: BCGA2925 IC: 579C-A2925		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270069-06.BCG	Test Dates: 11/29/2023 - 3/11/2024	EUT Type: Tablet Device	Page 106 of 125

Bluetooth Mode: LE

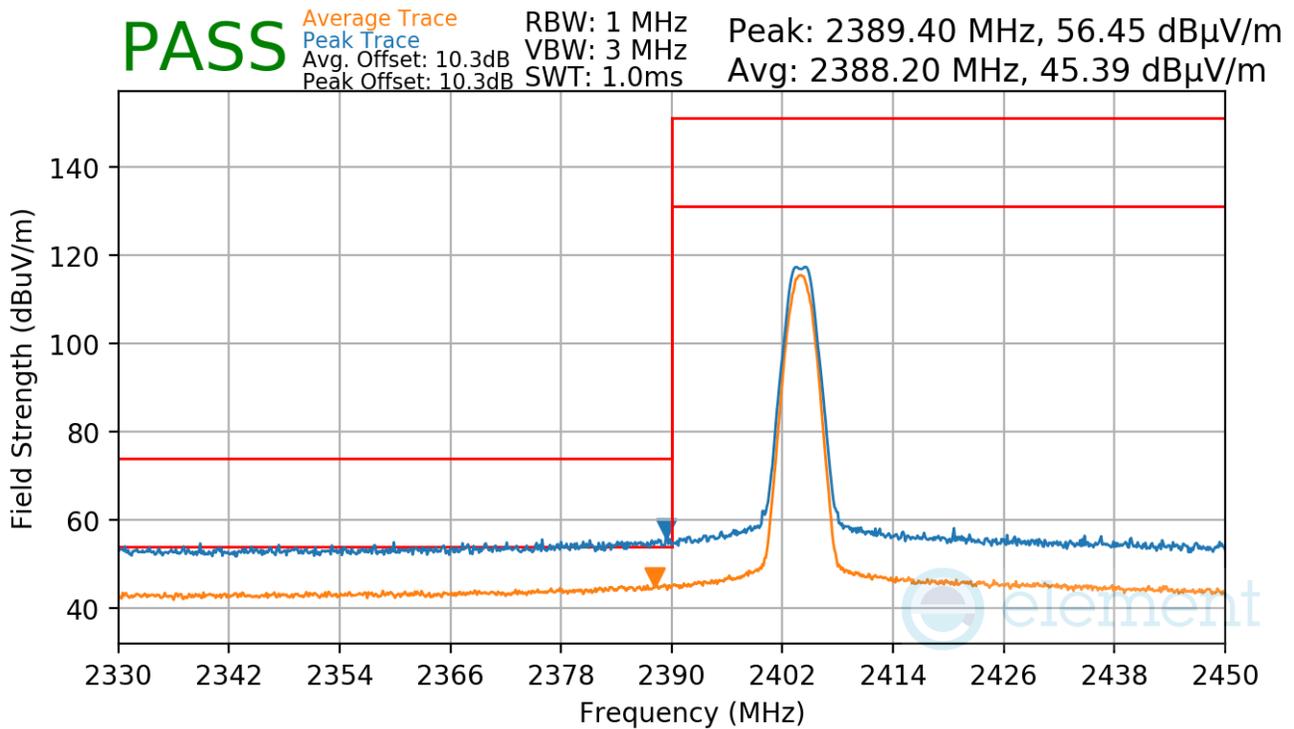
Data Rate: 2Mbps

Power Scheme: ePA

Measurement Distance: 3 Meters

Operating Frequency: 2404MHz

Channel: 1



**Plot 7-128. Radiated Restricted Lower Band Edge Measurement Antenna WF7 (Average & Peak)**

FCC ID: BCGA2925 IC: 579C-A2925		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270069-06.BCG	Test Dates: 11/29/2023 - 3/11/2024	EUT Type: Tablet Device	Page 107 of 125

Bluetooth Mode: LE

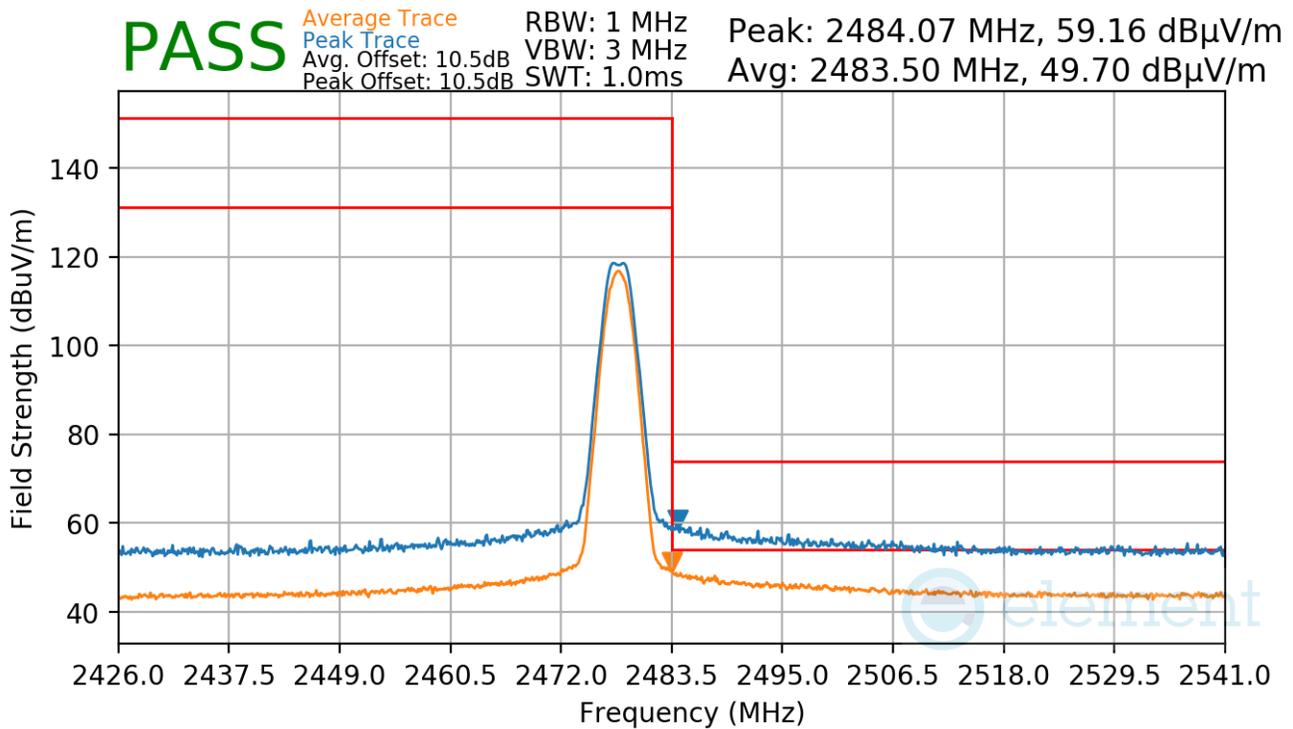
Data Rate: 2Mbps

Power Scheme: ePA

Measurement Distance: 3 Meters

Operating Frequency: 2478MHz

Channel: 38



**Plot 7-129. Radiated Restricted Upper Band Edge Measurement Antenna WF7 (Average & Peak)**

FCC ID: BCGA2925 IC: 579C-A2925		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270069-06.BCG	Test Dates: 11/29/2023 - 3/11/2024	EUT Type: Tablet Device	Page 108 of 125

### Antenna WF9

Bluetooth Mode: LE

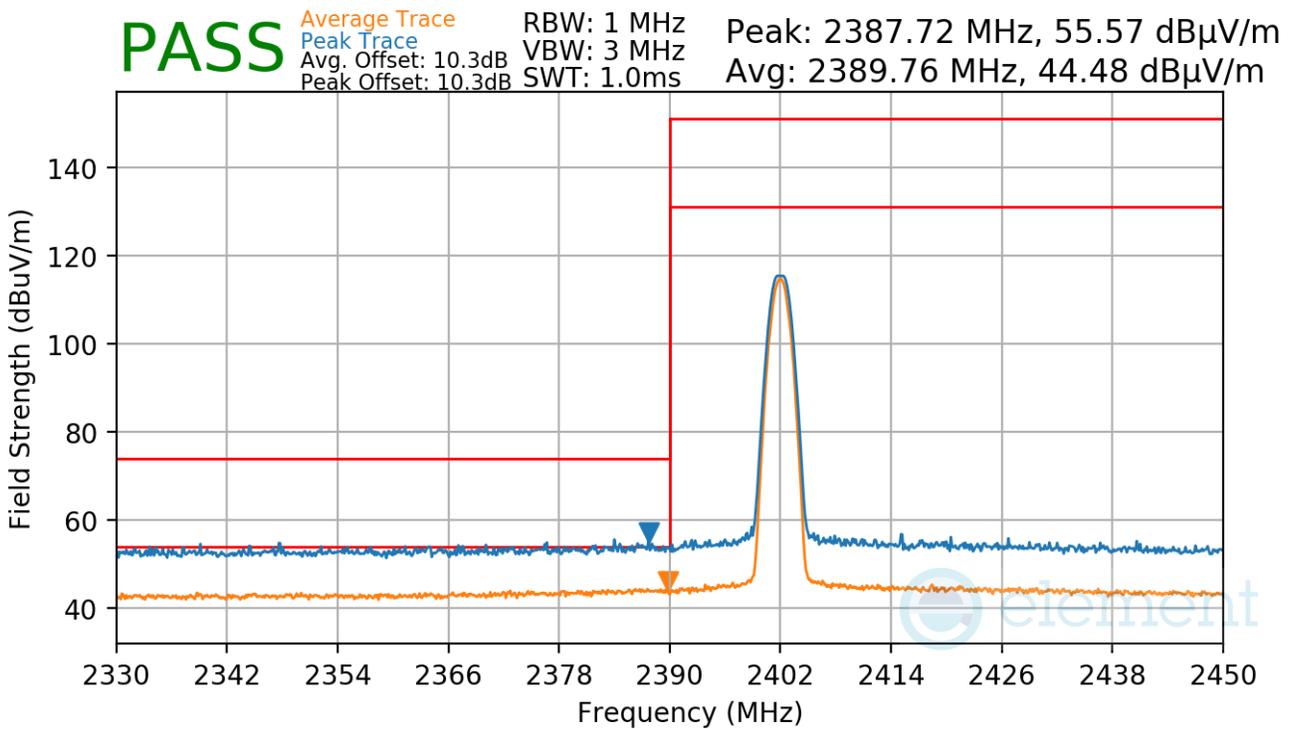
Data Rate: 1Mbps

Power Scheme: ePA

Measurement Distance: 3 Meters

Operating Frequency: 2402MHz

Channel: 0



**Plot 7-130. Radiated Restricted Lower Band Edge Measurement Antenna WF9 (Average & Peak)**

FCC ID: BCGA2925 IC: 579C-A2925		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270069-06.BCG	Test Dates: 11/29/2023 - 3/11/2024	EUT Type: Tablet Device	Page 109 of 125

Bluetooth Mode: LE

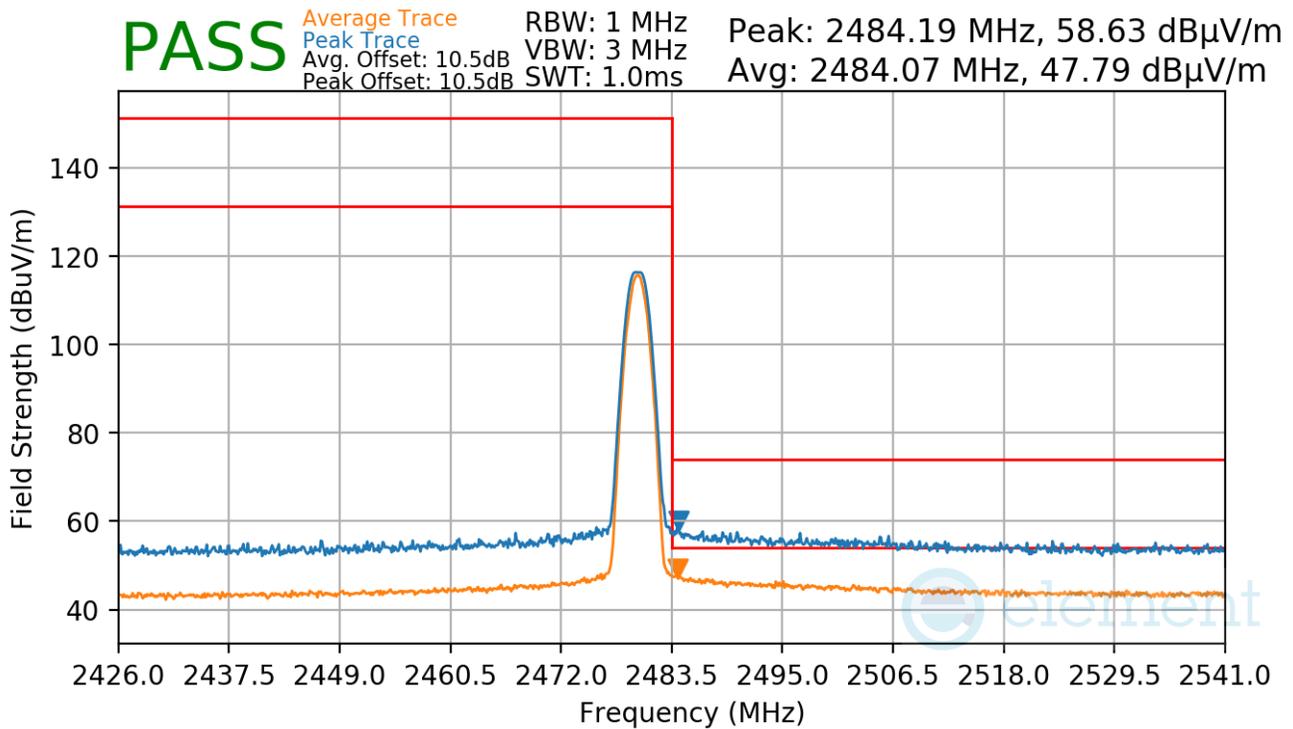
Data Rate: 1Mbps

Power Scheme: ePA

Measurement Distance: 3 Meters

Operating Frequency: 2480MHz

Channel: 39



**Plot 7-131. Radiated Restricted Upper Band Edge Measurement Antenna WF9 (Average & Peak)**

FCC ID: BCGA2925 IC: 579C-A2925		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270069-06.BCG	Test Dates: 11/29/2023 - 3/11/2024	EUT Type: Tablet Device	Page 110 of 125

Bluetooth Mode: LE

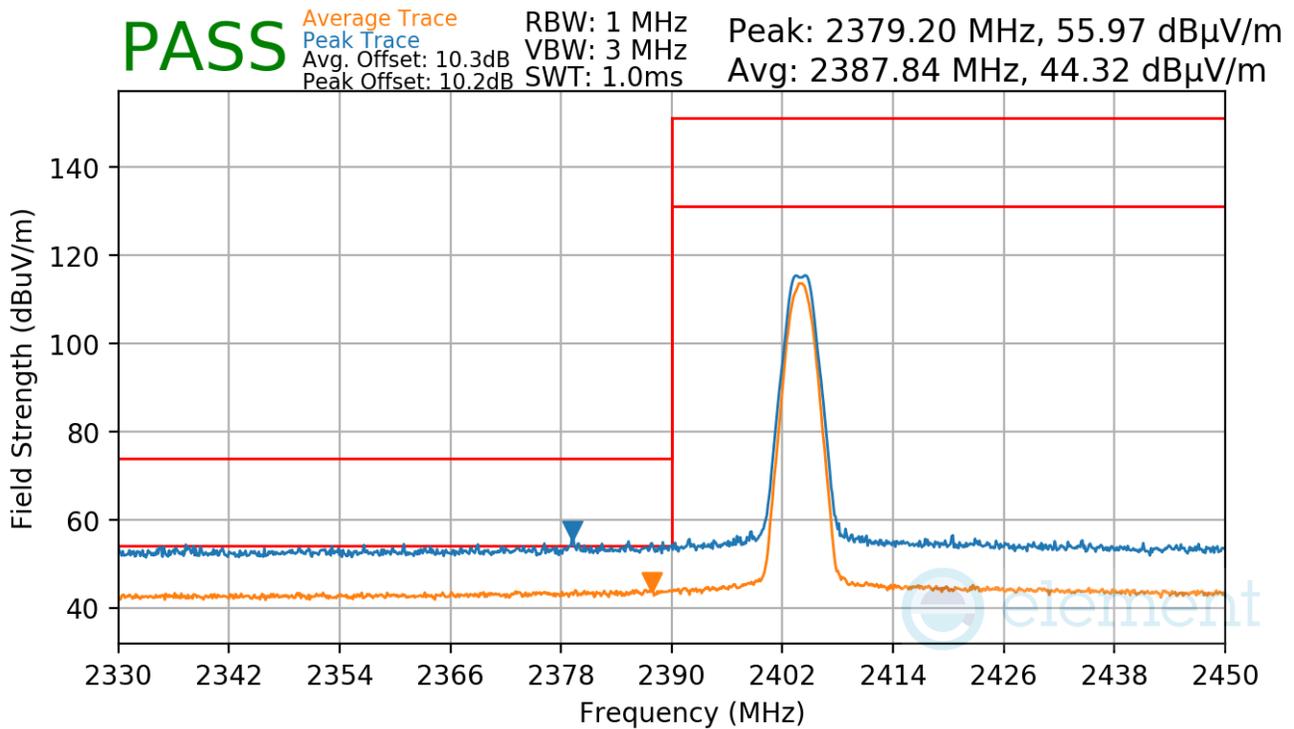
Data Rate: 2Mbps

Power Scheme: ePA

Measurement Distance: 3 Meters

Operating Frequency: 2404MHz

Channel: 1



**Plot 7-132. Radiated Restricted Lower Band Edge Measurement Antenna WF9 (Average & Peak)**

FCC ID: BCGA2925 IC: 579C-A2925		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270069-06.BCG	Test Dates: 11/29/2023 - 3/11/2024	EUT Type: Tablet Device	Page 111 of 125

Bluetooth Mode: LE

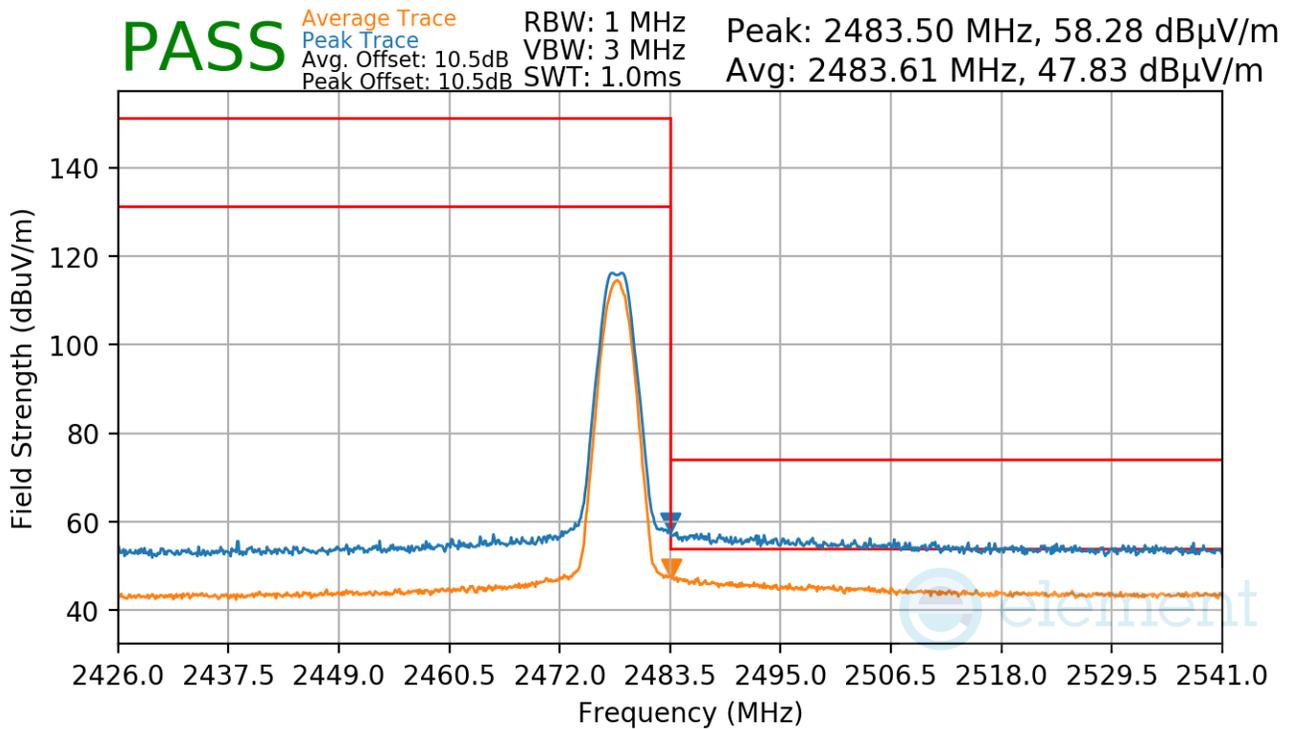
Data Rate: 2Mbps

Power Scheme: ePA

Measurement Distance: 3 Meters

Operating Frequency: 2478MHz

Channel: 38



**Plot 7-133. Radiated Restricted Upper Band Edge Measurement Antenna WF9 (Average & Peak)**

FCC ID: BCGA2925 IC: 579C-A2925		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270069-06.BCG	Test Dates: 11/29/2023 - 3/11/2024	EUT Type: Tablet Device	Page 112 of 125

### TxBF

Bluetooth Mode: LE

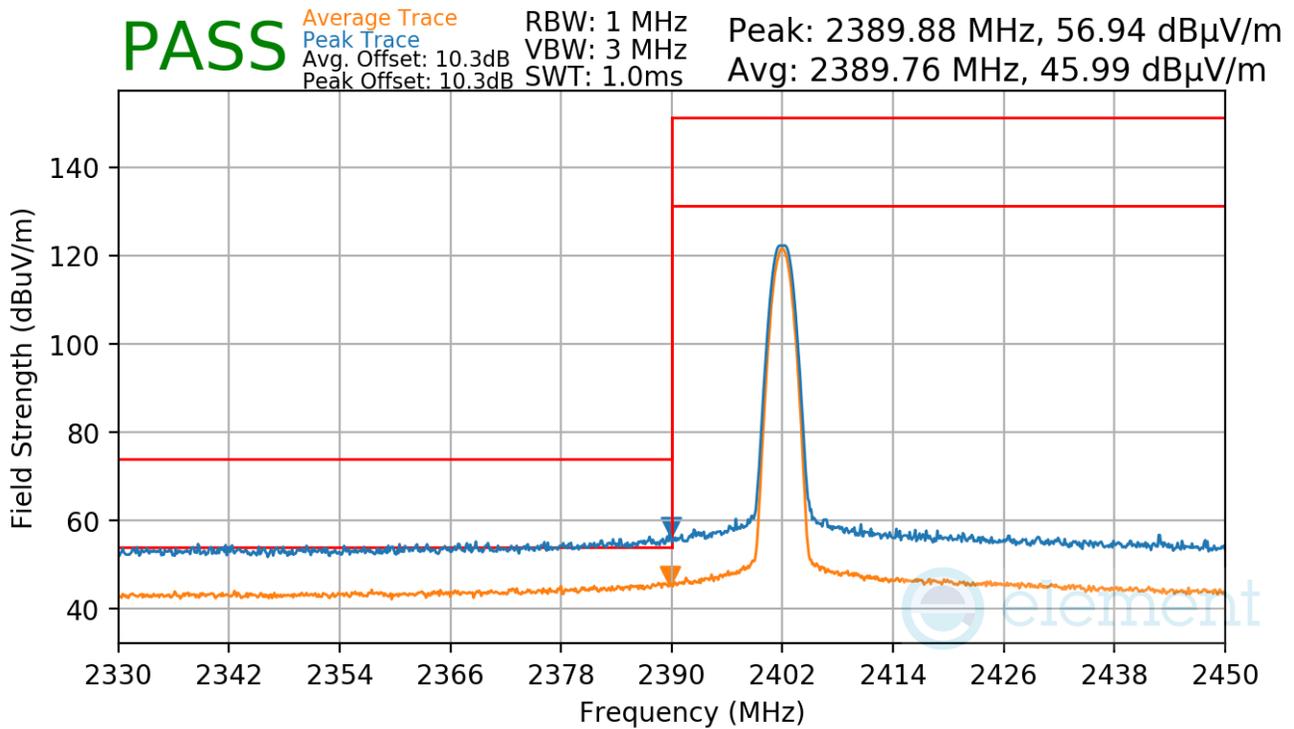
Data Rate: 1Mbps

Power Scheme: ePA

Measurement Distance: 3 Meters

Operating Frequency: 2402MHz

Channel: 0



**Plot 7-134. Radiated Restricted Lower Band Edge Measurement TxBF (Average & Peak)**

FCC ID: BCGA2925 IC: 579C-A2925		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270069-06.BCG	Test Dates: 11/29/2023 - 3/11/2024	EUT Type: Tablet Device	Page 113 of 125

Bluetooth Mode: LE

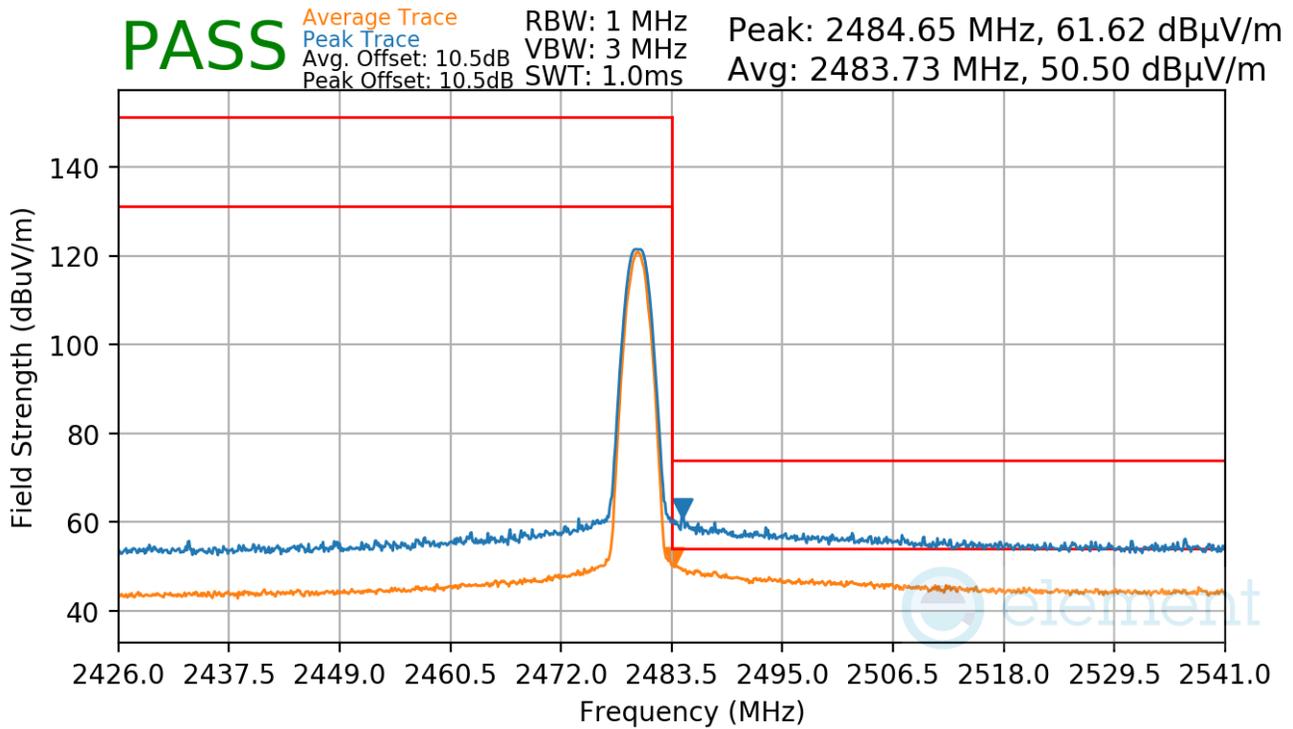
Data Rate: 1Mbps

Power Scheme: ePA

Measurement Distance: 3 Meters

Operating Frequency: 2480MHz

Channel: 39



**Plot 7-135. Radiated Restricted Upper Band Edge Measurement TxBF (Average & Peak)**

FCC ID: BCGA2925 IC: 579C-A2925		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270069-06.BCG	Test Dates: 11/29/2023 - 3/11/2024	EUT Type: Tablet Device	Page 114 of 125

Bluetooth Mode: LE

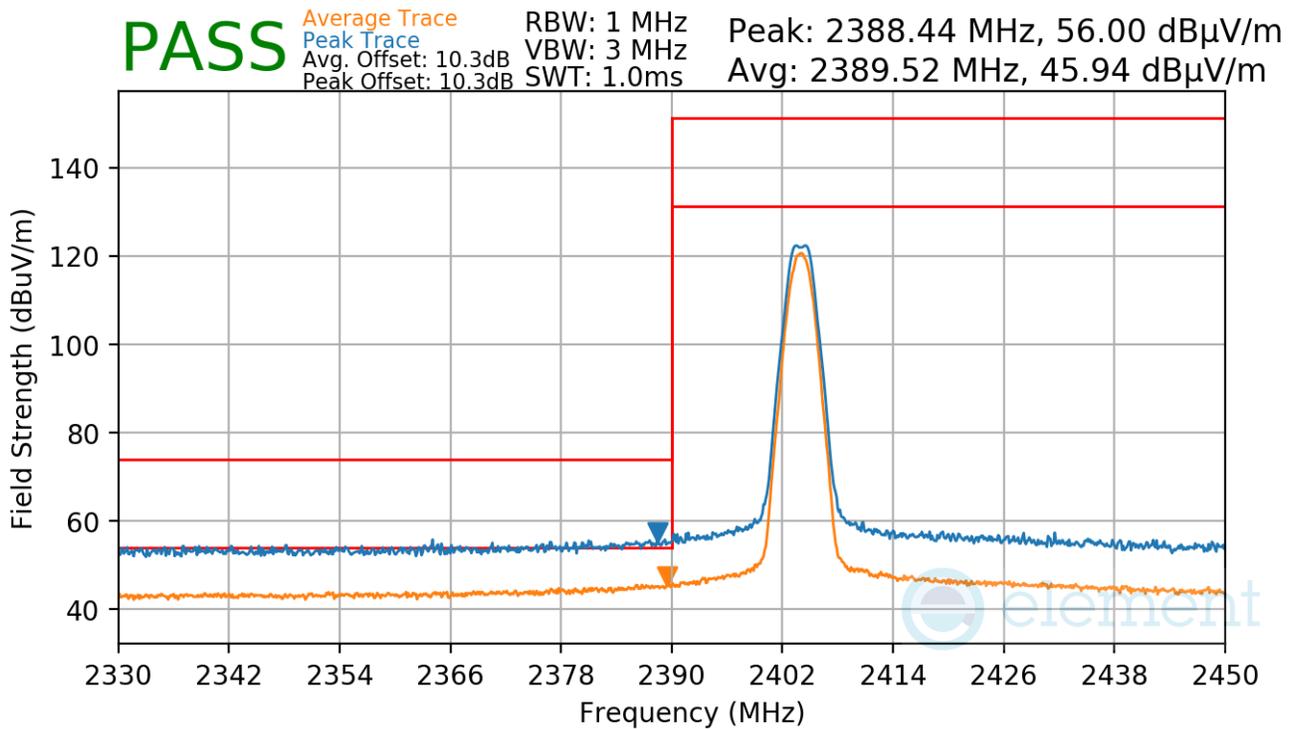
Data Rate: 2Mbps

Power Scheme: ePA

Measurement Distance: 3 Meters

Operating Frequency: 2404MHz

Channel: 1



**Plot 7-136. Radiated Restricted Lower Band Edge Measurement TxBF (Average & Peak)**

FCC ID: BCGA2925 IC: 579C-A2925		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270069-06.BCG	Test Dates: 11/29/2023 - 3/11/2024	EUT Type: Tablet Device	Page 115 of 125

Bluetooth Mode: LE

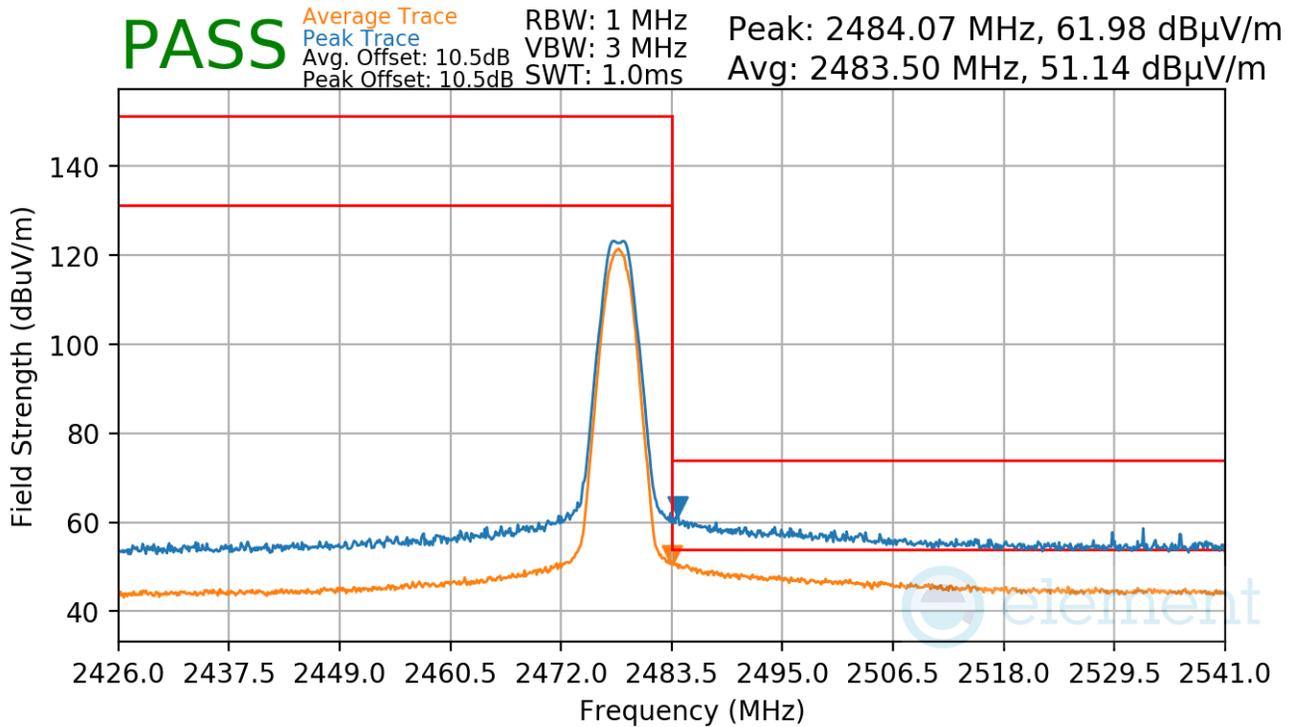
Data Rate: 2Mbps

Power Scheme: ePA

Measurement Distance: 3 Meters

Operating Frequency: 2478MHz

Channel: 38



**Plot 7-137. Radiated Restricted Upper Band Edge Measurement TxBF (Average & Peak)**

FCC ID: BCGA2925 IC: 579C-A2925		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270069-06.BCG	Test Dates: 11/29/2023 - 3/11/2024	EUT Type: Tablet Device	Page 116 of 125

## 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 [ $\mu\text{V/m}$ ]	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

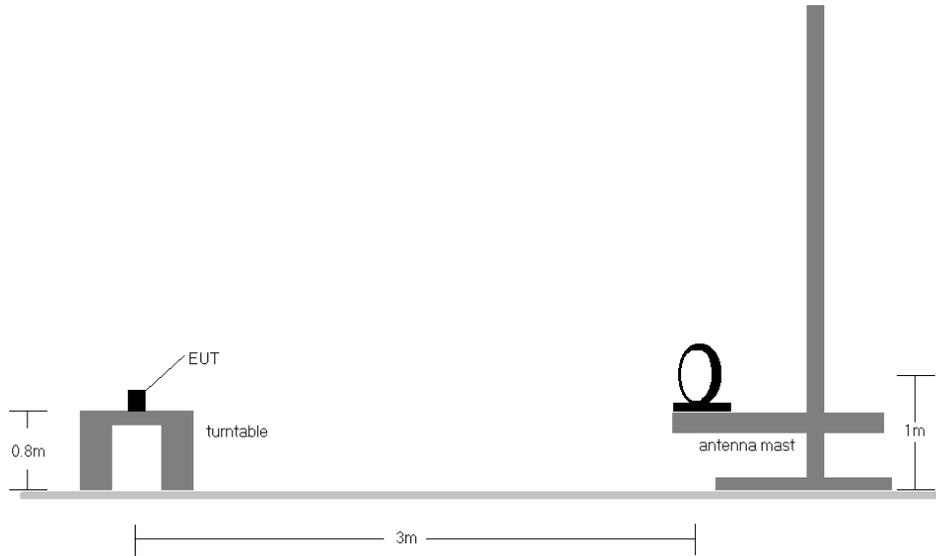
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 120kHz (for emissions from 30MHz – 1GHz)
3. VBW = 300kHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

FCC ID: BCGA2925 IC: 579C-A2925		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270069-06.BCG	Test Dates: 11/29/2023 - 3/11/2024	EUT Type: Tablet Device	Page 117 of 125

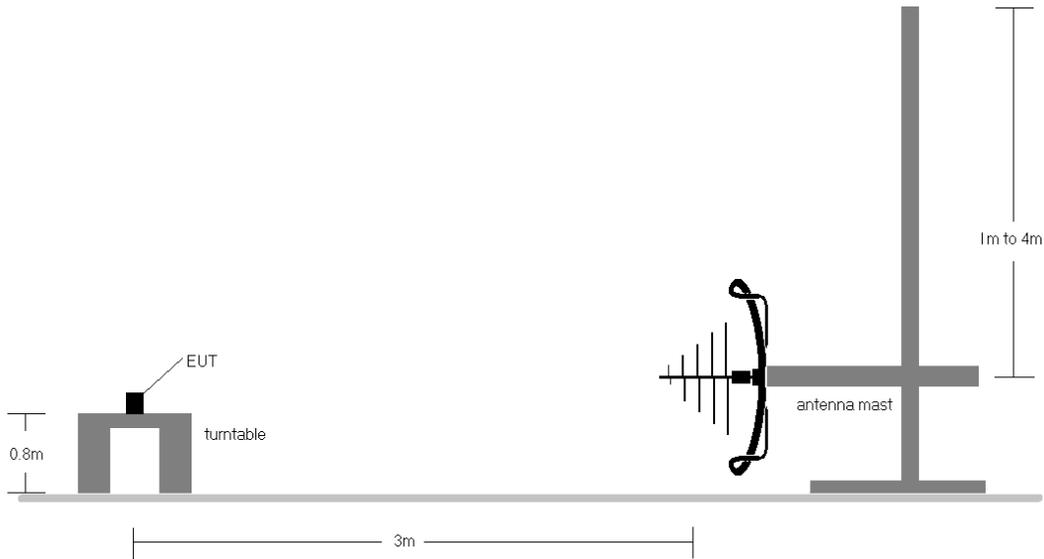
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**Test Setup**

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**

<b>FCC ID:</b> BCGA2925 <b>IC:</b> 579C-A2925		<b>MEASUREMENT REPORT (CERTIFICATION)</b>	<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1C2311270069-06.BCG	<b>Test Dates:</b> 11/29/2023 - 3/11/2024	<b>EUT Type:</b> Tablet Device	Page 118 of 125

V 10.6 09/12/2023

**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**

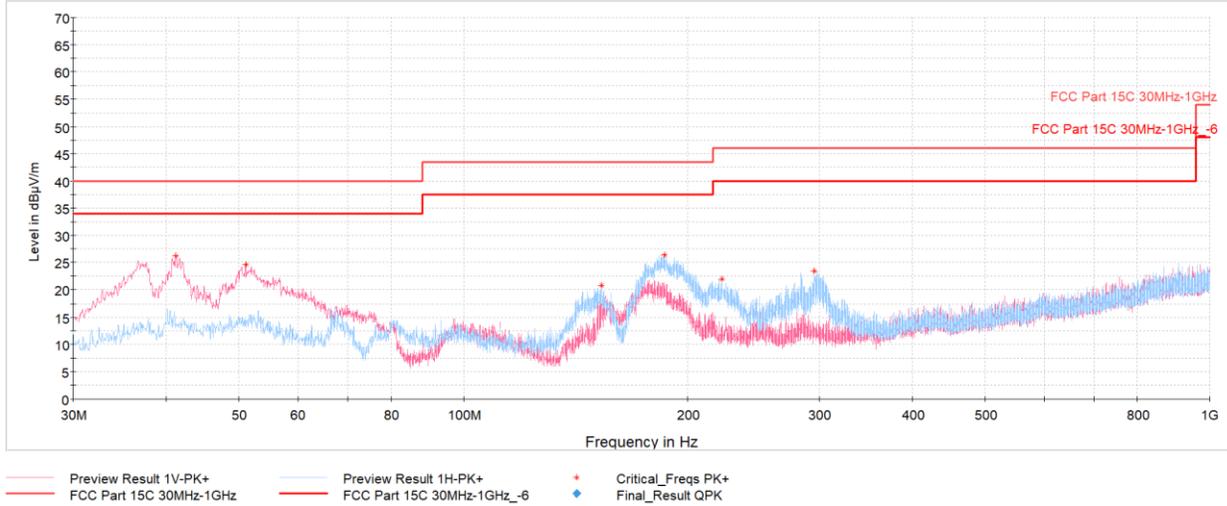
- Field Strength Level  $_{[dB_{\mu V/m}]}$  = Analyzer Level  $_{[dBm]} + 107 + AFCL_{[dB/m]}$
- AFCL  $_{[dB/m]} =$  Antenna Factor  $_{[dB/m]} +$  Cable Loss  $_{[dB]} -$  Preamplifier Gain  $_{[dB]}$
- Margin  $_{[dB]} =$  Field Strength Level  $_{[dB_{\mu V/m}]} -$  Limit  $_{[dB_{\mu V/m}]}$

FCC ID: BCGA2925 IC: 579C-A2925	 <b>MEASUREMENT REPORT (CERTIFICATION)</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1C2311270069-06.BCG	<b>Test Dates:</b> 11/29/2023 - 3/11/2024	<b>EUT Type:</b> Tablet Device	Page 119 of 125

## 7.8.1 Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209; RSS-Gen [8.9]

### TxBF



Plot 7-138. 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]
41.16	Max-Peak	V	100	0	-67.07	-13.72	26.21	40.00	-13.79
51.10	Max-Peak	V	100	313	-69.34	-13.13	24.53	40.00	-15.47
153.04	Max-Peak	H	200	191	-66.19	-20.05	20.76	43.52	-22.76
185.98	Max-Peak	H	200	34	-62.71	-18.00	26.29	43.52	-17.23
221.82	Max-Peak	H	100	213	-68.33	-16.66	22.01	46.02	-24.01
295.63	Max-Peak	H	100	36	-68.94	-14.56	23.50	46.02	-22.52

Table 7-31. Radiated Spurious Emissions Below 1GHz TxBF (1Mbps, ePA – Ch.19, Pol. H & V, with AC/DC Adapter)

FCC ID: BCGA2925 IC: 579C-A2925		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2311270069-06.BCG	Test Dates: 11/29/2023 - 3/11/2024	EUT Type: Tablet Device		Page 120 of 125

## 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 $\mu$ 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

FCC ID: BCGA2925 IC: 579C-A2925		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270069-06.BCG	Test Dates: 11/29/2023 - 3/11/2024	EUT Type: Tablet Device	Page 121 of 125

V 10.6 09/12/2023

## Test Setup

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

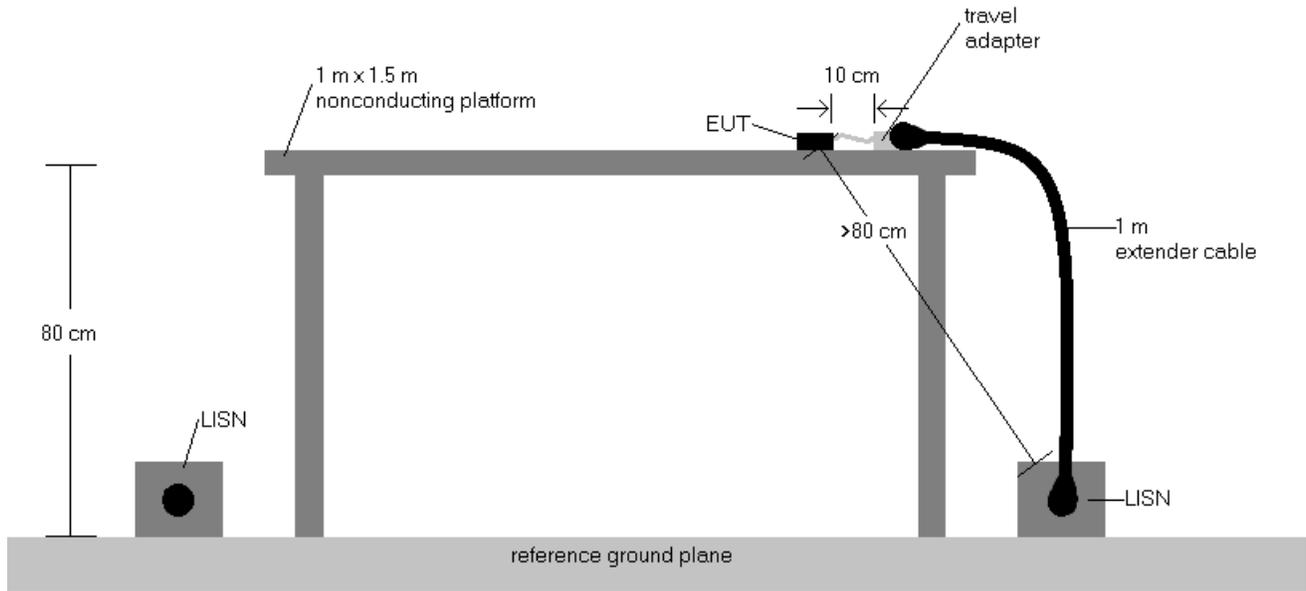


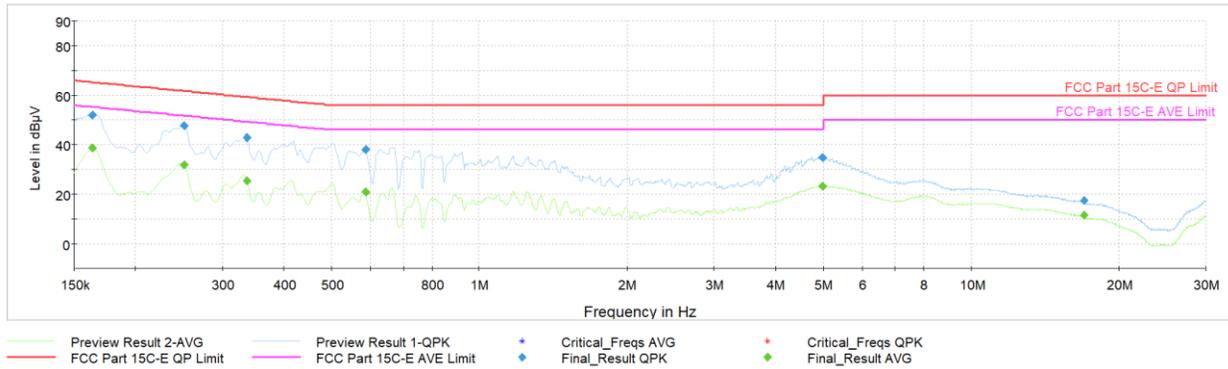
Figure 7-9. Test Instrument & Measurement Setup

## 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 a quasi peak and average detectors.
8. Deviations to the Specifications: None.

FCC ID: BCGA2925 IC: 579C-A2925		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270069-06.BCG	Test Dates: 11/29/2023 - 3/11/2024	EUT Type: Tablet Device	Page 122 of 125

V 10.6 09/12/2023

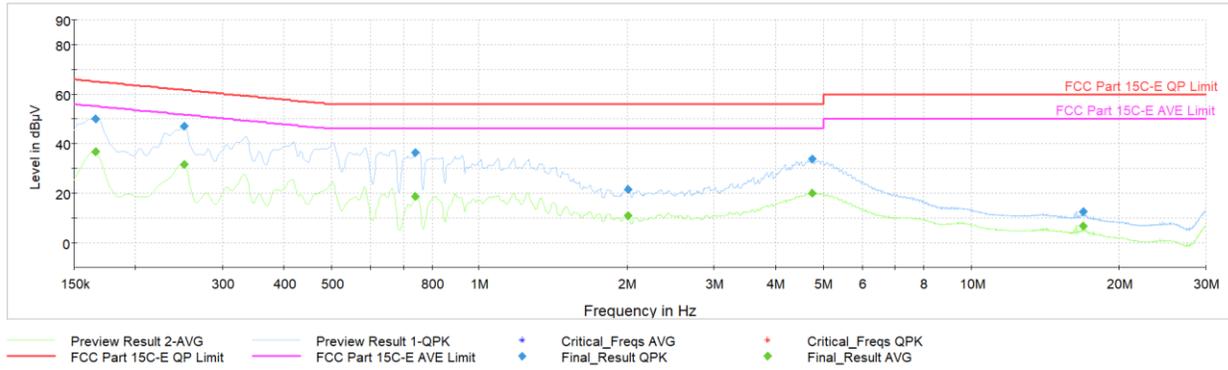


**Plot 7-139. AC Line Conducted Plot with Bluetooth LE Tx BF (L1, 1Mbps ePA – Ch.19 with AC/DC Adapter)**

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.164	FINAL	—	38.56	55.28	-16.72	L1	GND
0.164	FINAL	51.9	—	65.28	-13.35	L1	GND
0.251	FINAL	—	31.78	51.72	-19.93	L1	GND
0.251	FINAL	47.7	—	61.72	-14.00	L1	GND
0.337	FINAL	—	25.49	49.28	-23.79	L1	GND
0.337	FINAL	42.8	—	59.28	-16.46	L1	GND
0.589	FINAL	38.0	—	56.00	-18.01	L1	GND
0.589	FINAL	—	20.83	46.00	-25.17	L1	GND
4.994	FINAL	34.8	—	56.00	-21.25	L1	GND
4.994	FINAL	—	23.22	46.00	-22.78	L1	GND
16.960	FINAL	—	11.49	50.00	-38.51	L1	GND
16.960	FINAL	17.3	—	60.00	-42.66	L1	GND

**Table 7-33. AC Line Conducted Data with Bluetooth LE Tx BF (L1, 1Mbps ePA – Ch.19 with AC/DC Adapter)**

FCC ID: BCGA2925 IC: 579C-A2925		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270069-06.BCG	Test Dates: 11/29/2023 - 3/11/2024	EUT Type: Tablet Device	Page 123 of 125



**Plot 7-140. AC Line Conducted Plot with Bluetooth LE Tx BF (N, 1Mbps ePA – Ch.19, with AC/DC Adapter)**

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.166	FINAL	—	36.82	55.17	-18.35	N	GND
0.166	FINAL	50.0	—	65.17	-15.20	N	GND
0.251	FINAL	—	31.70	51.72	-20.02	N	GND
0.251	FINAL	47.0	—	61.72	-14.73	N	GND
0.742	FINAL	—	18.78	46.00	-27.22	N	GND
0.742	FINAL	36.3	—	56.00	-19.66	N	GND
2.006	FINAL	21.7	—	56.00	-34.29	N	GND
2.006	FINAL	—	10.98	46.00	-35.02	N	GND
4.754	FINAL	33.8	—	56.00	-22.23	N	GND
4.754	FINAL	—	20.04	46.00	-25.96	N	GND
16.899	FINAL	—	6.65	50.00	-43.35	N	GND
16.899	FINAL	12.7	—	60.00	-47.27	N	GND

**Table 7-34. AC Line Conducted Data with Bluetooth LE Tx BF (N, 1Mbps ePA – Ch.19 with AC/DC Adapter)**

FCC ID: BCGA2925 IC: 579C-A2925		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270069-06.BCG	Test Dates: 11/29/2023 - 3/11/2024	EUT Type: Tablet Device	Page 124 of 125

## 8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Apple Tablet Device FCC ID: BCGA2925 and IC: 579C-A2925** 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.

<b>FCC ID:</b> BCGA2925 <b>IC:</b> 579C-A2925	 <b>MEASUREMENT REPORT (CERTIFICATION)</b>	<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1C2311270069-06.BCG	<b>Test Dates:</b> 11/29/2023 - 3/11/2024	<b>EUT Type:</b> Tablet Device

V 10.6 09/12/2023