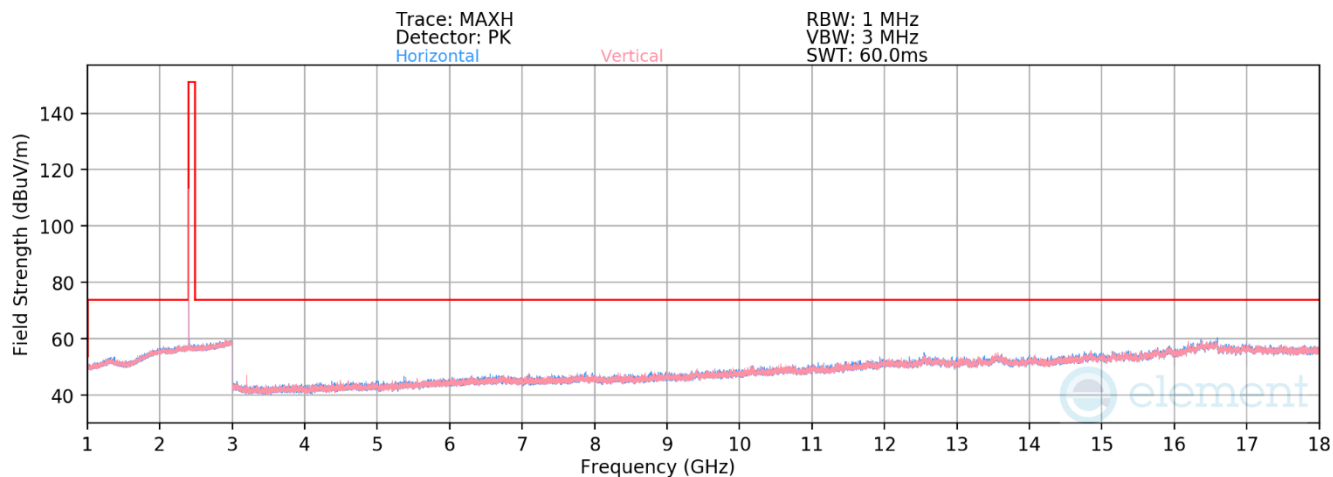


7.8.1 TxBF Radiated Spurious Emission Measurements

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



Plot 7-173. 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

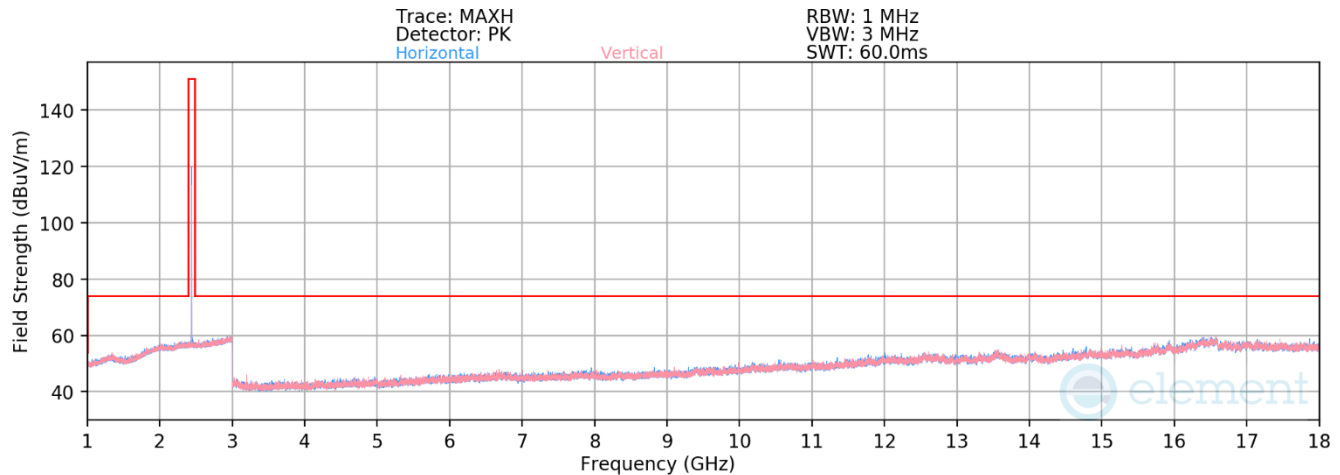
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
4804.00	Average	H	-	-	-79.94	6.50	33.56	53.98	-20.42
4804.00	Peak	H	-	-	-67.74	6.50	45.76	73.98	-28.22
12010.00	Average	V	-	-	-84.33	18.06	40.73	53.98	-13.25
12010.00	Peak	V	-	-	-73.41	18.06	51.65	73.98	-22.33

Table 7-16. Radiated Measurements TxBF

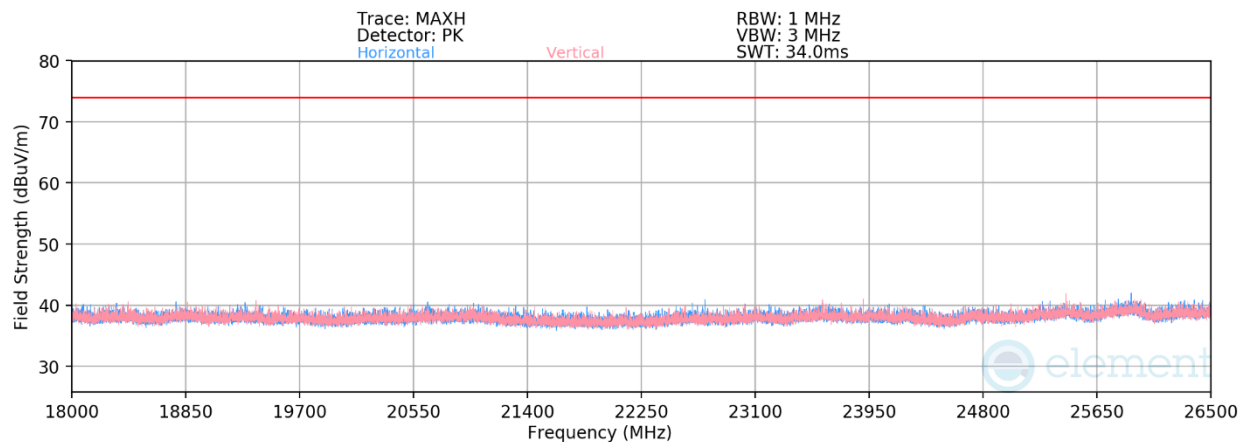
FCC ID: BCGA3459 IC: 579C-A3459	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100079-08-R5.BCG	Test Dates: 09/10/2025 - 12/23/2025	EUT Type: Tablet Device	Page 123 of 140

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Plot 7-174. Radiated Spurious Emissions 1-18GHz TxBF (1Mbps, ePA – Ch. 19)



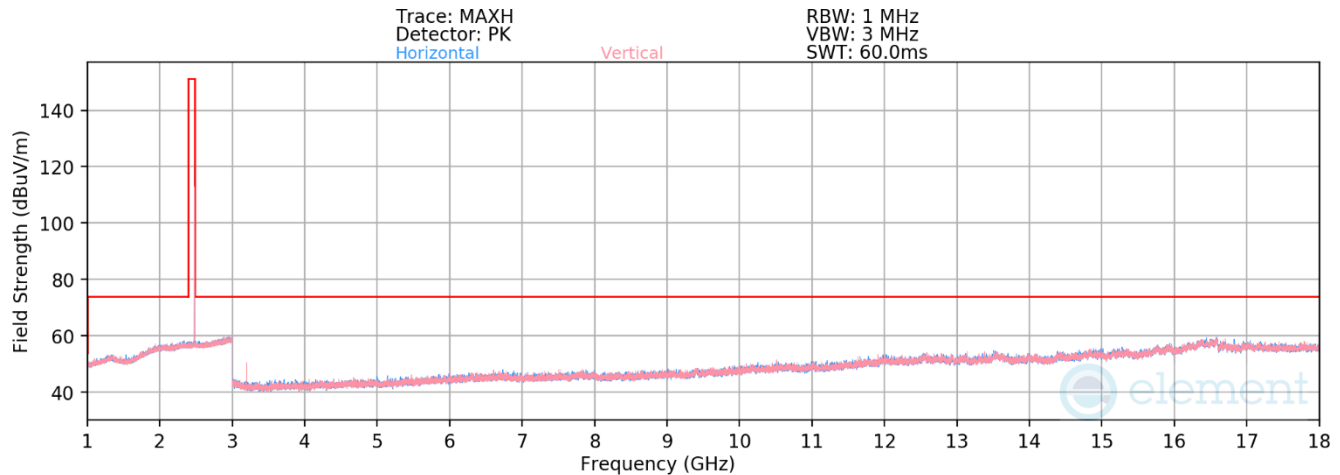
Plot 7-175. Radiated Spurious Emissions Above 18GHz TxBF (1Mbps ePA – Ch. 19)

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]	Dist. Corr. Factor [dB]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
4880.00	Average	V	-	-	-80.13	6.94	0.00	33.81	53.98	-20.17
4880.00	Peak	V	-	-	-68.81	6.94	0.00	45.13	73.98	-28.85
7320.00	Average	H	-	-	-81.18	10.38	0.00	36.20	53.98	-17.78
7320.00	Peak	H	-	-	-70.49	10.38	0.00	46.89	73.98	-27.09
12200.00	Average	V	-	-	-83.46	18.10	0.00	41.64	53.98	-12.34
12200.00	Peak	V	-	-	-71.54	18.10	0.00	53.56	73.98	-20.42
19520.00	Avg	H	-	-	-61.13	-7.84	-9.54	28.49	53.98	-25.49
19520.00	Peak	H	-	-	-49.96	-7.84	-9.54	39.66	73.98	-34.32

Table 7-17. Radiated Measurements TxBF

FCC ID: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-176. 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 [dBuV/m]	Limit [dBuV/m]	Margin [dB]
4960.00	Average	H	-	-	-80.24	6.86	33.62	53.98	-20.36
4960.00	Peak	H	-	-	-68.67	6.86	45.19	73.98	-28.79
7440.00	Average	V	-	-	-81.23	10.81	36.58	53.98	-17.40
7440.00	Peak	V	-	-	-70.18	10.81	47.62	73.98	-26.36
12400.00	Average	V	-	-	-84.48	18.86	41.38	53.98	-12.60
12400.00	Peak	V	-	-	-72.83	18.86	53.03	73.98	-20.95

Table 7-18. Radiated Measurements TxBF

FCC ID: BCGA3459 IC: 579C-A3459	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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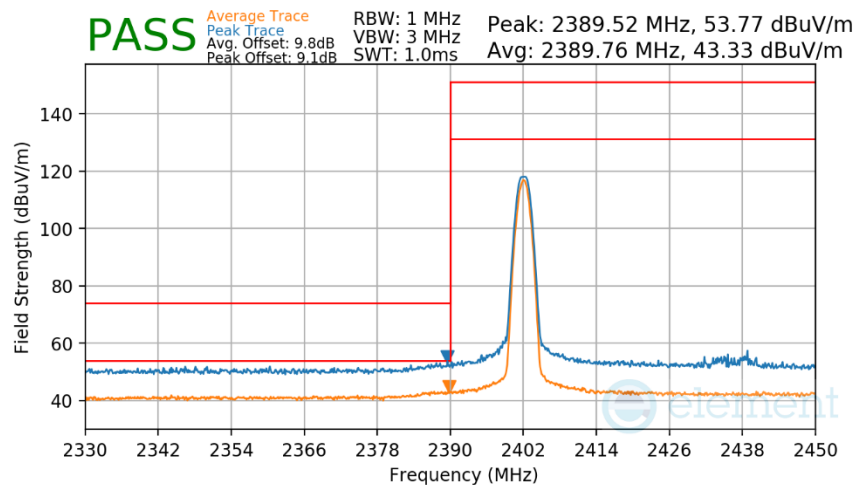
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7.8.2 Antenna WF8 Radiated Restricted Band Edge Measurements

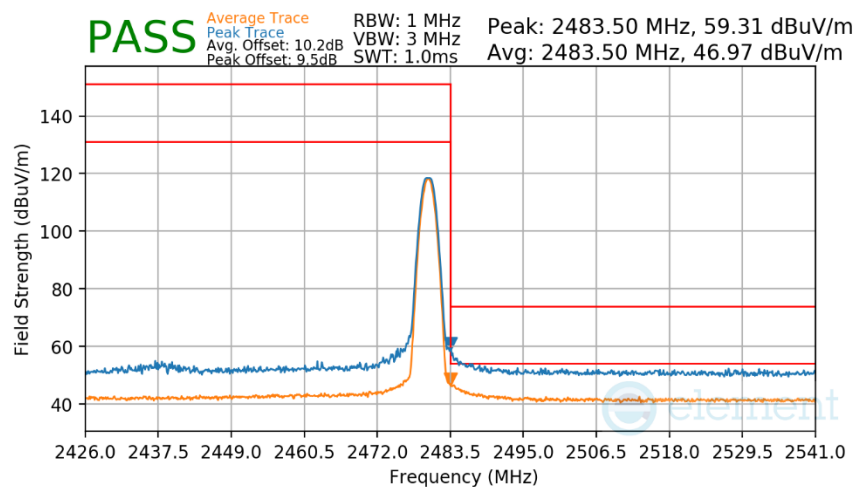
§15.205 §15.209; RSS-Gen [8.9]

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



Plot 7-177. Radiated Restricted Lower Band Edge Measurement Antenna WF8 (Average & Peak)

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



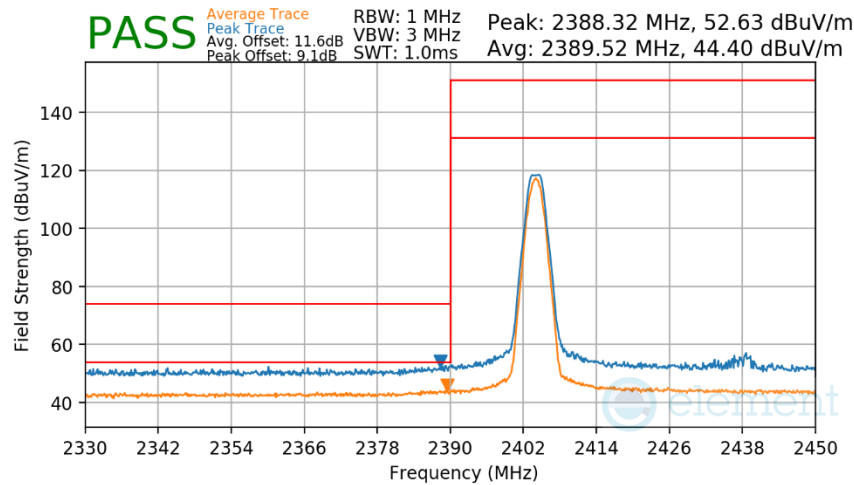
Plot 7-178. Radiated Restricted Upper Band Edge Measurement Antenna WF8 (Average & Peak)

FCC ID: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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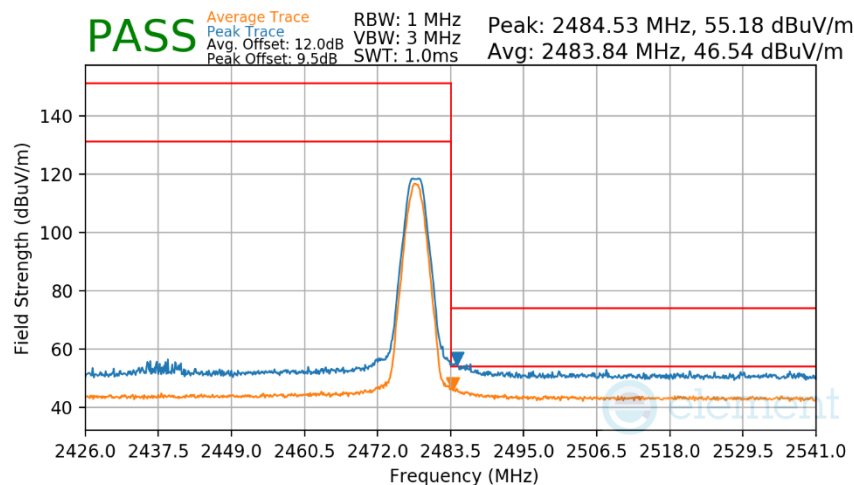
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Bluetooth Mode: LE
 Data Rate: 2Mbps
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 2404MHz
 Channel: 1



Plot 7-179. Radiated Restricted Lower Band Edge Measurement Antenna WF8 (Average & Peak)

Bluetooth Mode: LE
 Data Rate: 2Mbps
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 2478MHz
 Channel: 38



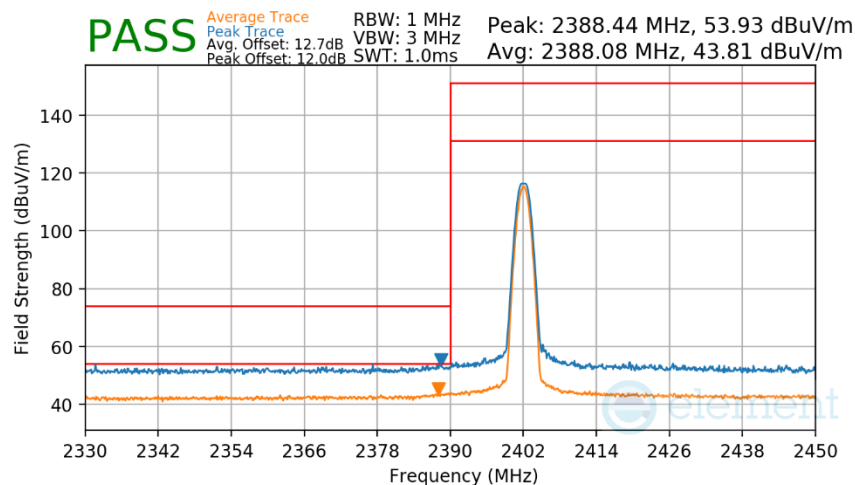
Plot 7-180. Radiated Restricted Upper Band Edge Measurement Antenna WF8 (Average & Peak)

FCC ID: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.8.3 Antenna WF7b Radiated Restricted Band Edge Measurements

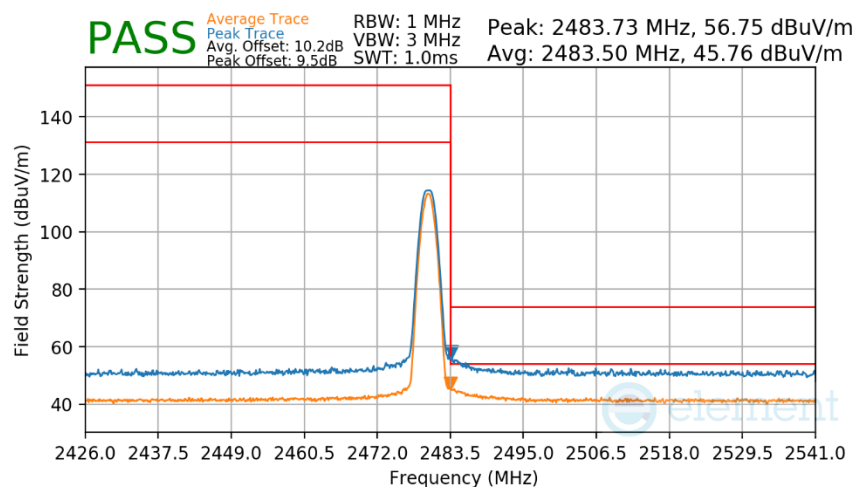
§15.205 §15.209; RSS-Gen [8.9]

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



Plot 7-181. Radiated Restricted Lower Band Edge Measurement Antenna WF7b (Average & Peak)

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

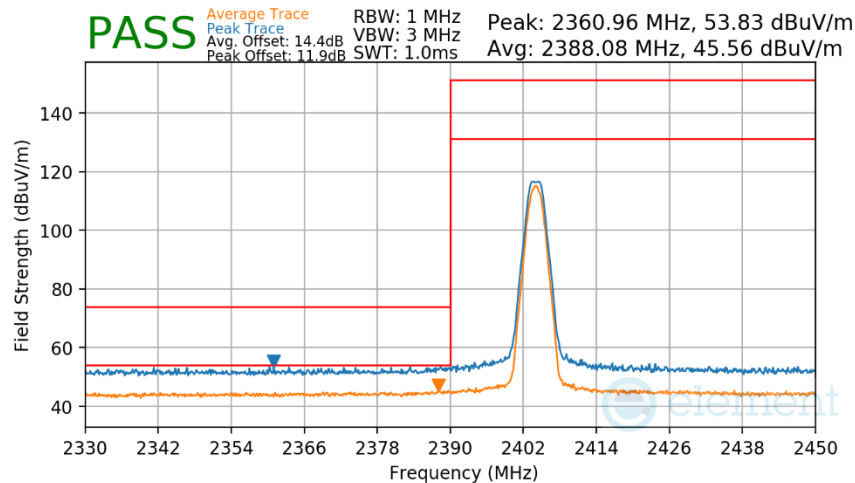


Plot 7-182. Radiated Restricted Upper Band Edge Measurement Antenna WF7b (Average & Peak)

FCC ID: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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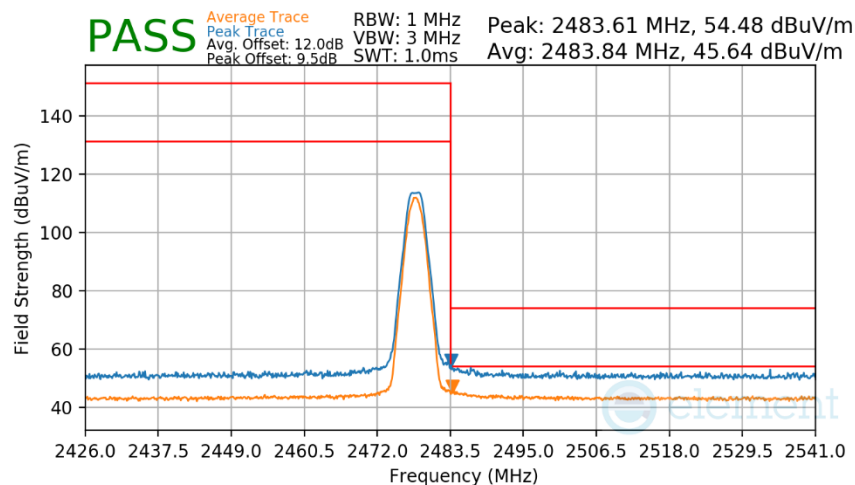
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Bluetooth Mode:	LE
Data Rate:	2Mbps
Power Scheme:	ePA
Measurement Distance:	3 Meters
Operating Frequency:	2404MHz
Channel:	1



Plot 7-183. Radiated Restricted Lower Band Edge Measurement Antenna WF7b (Average & Peak)

Bluetooth Mode:	LE
Data Rate:	2Mbps
Power Scheme:	ePA
Measurement Distance:	3 Meters
Operating Frequency:	2478MHz
Channel:	38



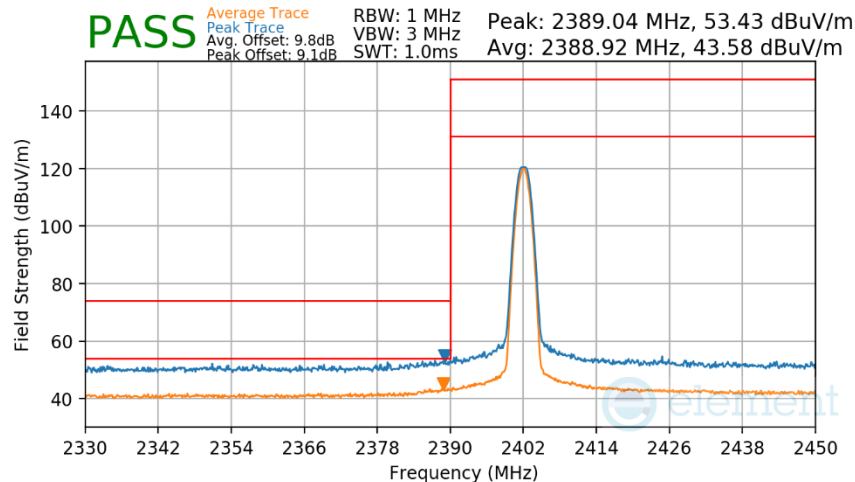
Plot 7-184. Radiated Restricted Upper Band Edge Measurement Antenna WF7b (Average & Peak)

FCC ID: BCGA3459 IC: 579C-A3459	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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7.8.4 TxBF Radiated Restricted Band Edge Measurements

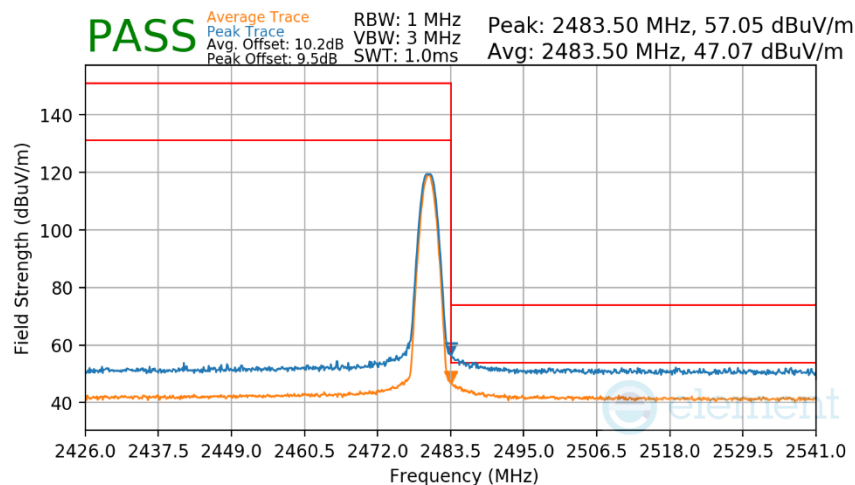
§15.205 §15.209; RSS-Gen [8.9]

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



Plot 7-185. Radiated Restricted Lower Band Edge Measurement TxBF (Average & Peak)

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

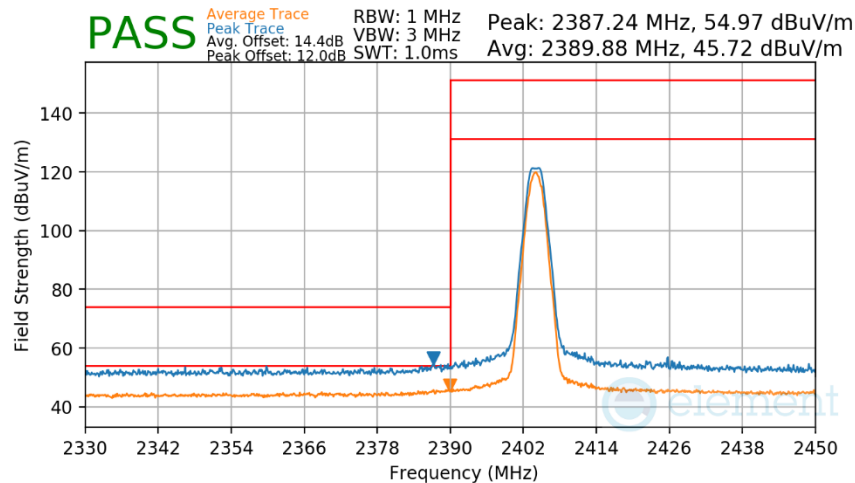


Plot 7-186. Radiated Restricted Upper Band Edge Measurement TxBF (Average & Peak)

FCC ID: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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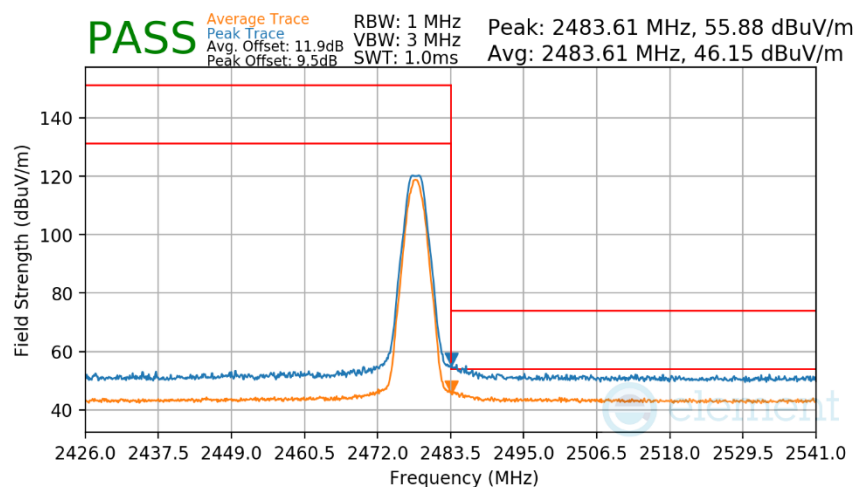
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Bluetooth Mode: LE
 Data Rate: 2Mbps
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 2404MHz
 Channel: 1



Plot 7-187. Radiated Restricted Lower Band Edge Measurement TxBF (Average & Peak)

Bluetooth Mode: LE
 Data Rate: 2Mbps
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 2478MHz
 Channel: 38



Plot 7-188. Radiated Restricted Upper Band Edge Measurement TxBF (Average & Peak)

FCC ID: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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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 7-19 per Section 15.209 and RSS-Gen (8.9).

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

Table 7-19. Radiated Limits

Test Procedures Used

ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024

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.

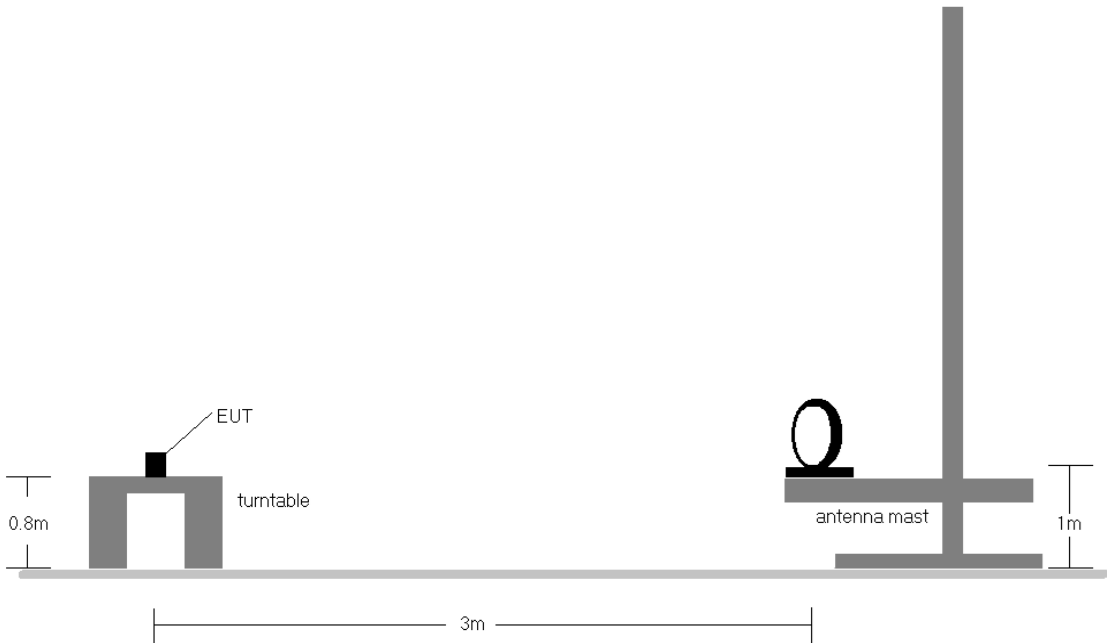


Figure 7-8. Radiated Test Setup < 30MHz

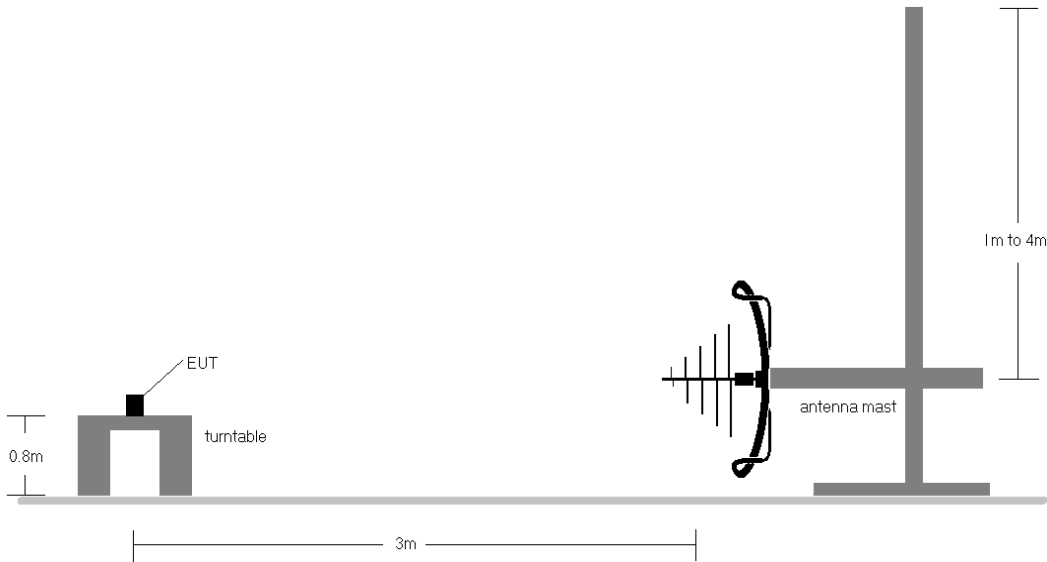


Figure 7-9. Radiated Test Setup < 1GHz

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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 7-19.
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

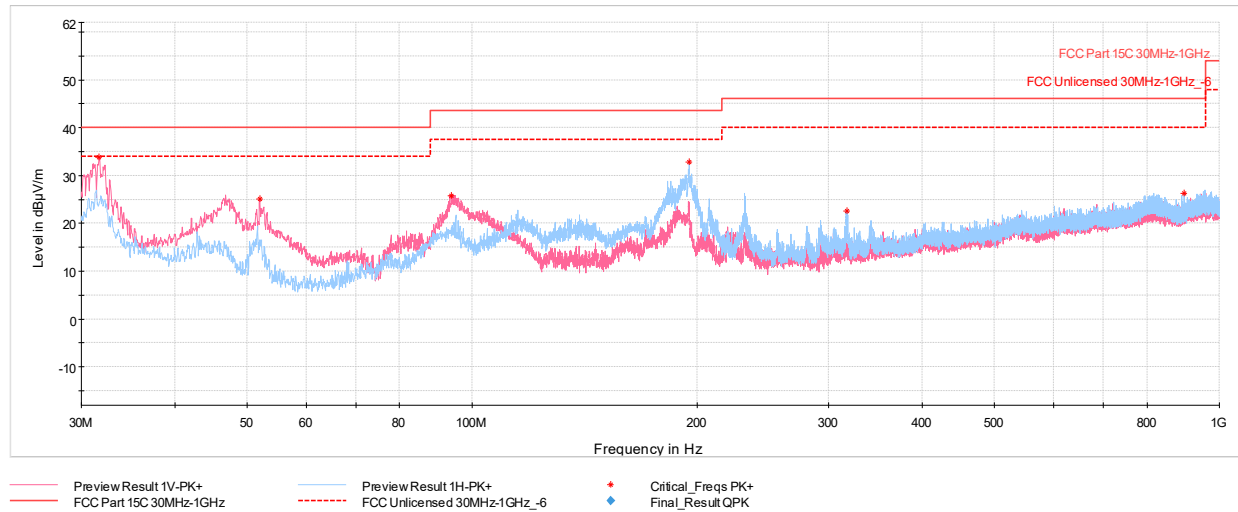
- Field Strength Level $_{[dB\mu V/m]} = \text{Analyzer Level }_{[dBm]} + 107 + \text{AFCL }_{[dB/m]}$
- $\text{AFCL }_{[dB/m]} = \text{Antenna Factor }_{[dB/m]} + \text{Cable Loss }_{[dB]} - \text{Preamplifier Gain }_{[dB]}$
- $\text{Margin }_{[dB]} = \text{Field Strength Level }_{[dB\mu V/m]} - \text{Limit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

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7.9.1 TxBF Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209; RSS-Gen [8.9]



Plot 7-189. 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]
31.70	Max-Peak	V	200	146	-56.59	-16.60	33.81	40.00	-6.19
52.02	Max-Peak	V	200	159	-59.07	-22.79	25.14	40.00	-14.86
93.87	Max-Peak	V	100	246	-59.70	-21.53	25.77	43.52	-17.75
195.19	Max-Peak	H	100	254	-55.87	-18.24	32.89	43.52	-10.63
317.36	Max-Peak	H	100	319	-69.85	-14.56	22.59	46.02	-23.43
897.86	Max-Peak	H	300	166	-76.17	-4.59	26.24	46.02	-19.78

Table 7-20. Radiated Spurious Emissions Below 1GHz TxBF (1Mbps, ePA – Ch.19, Pol. H & V, with AC/DC Adapter)

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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 (dBμV)	
	Quasi-peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 – 30	60	50

Table 7-21. Conducted Limits

*Decreases with the logarithm of the frequency.

Test Procedures Used

ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024, 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.

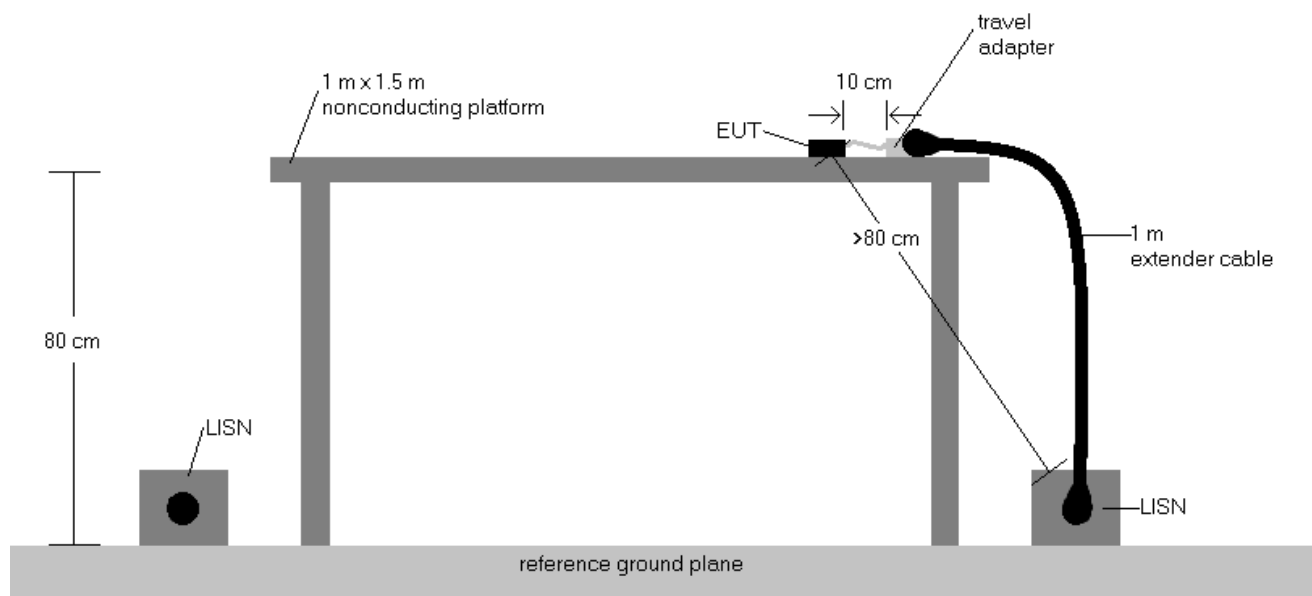


Figure 7-10. Test Instrument & Measurement Setup

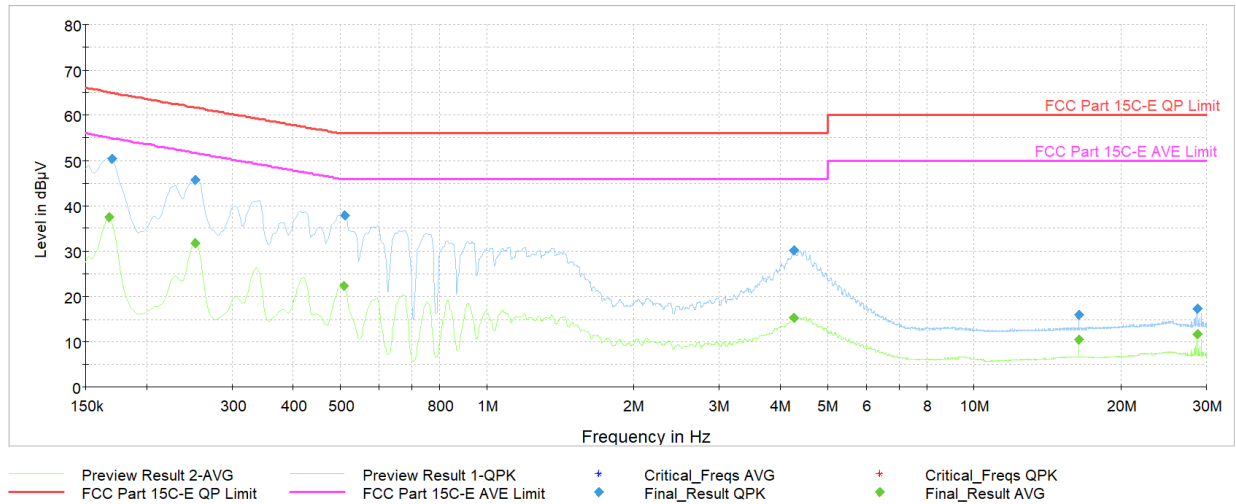
Test Notes

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

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Plot 7-190. AC Line Conducted Plot with Bluetooth LE Tx BF (L1, 1Mbps ePA – Ch.19 with AC/DC Adapter)

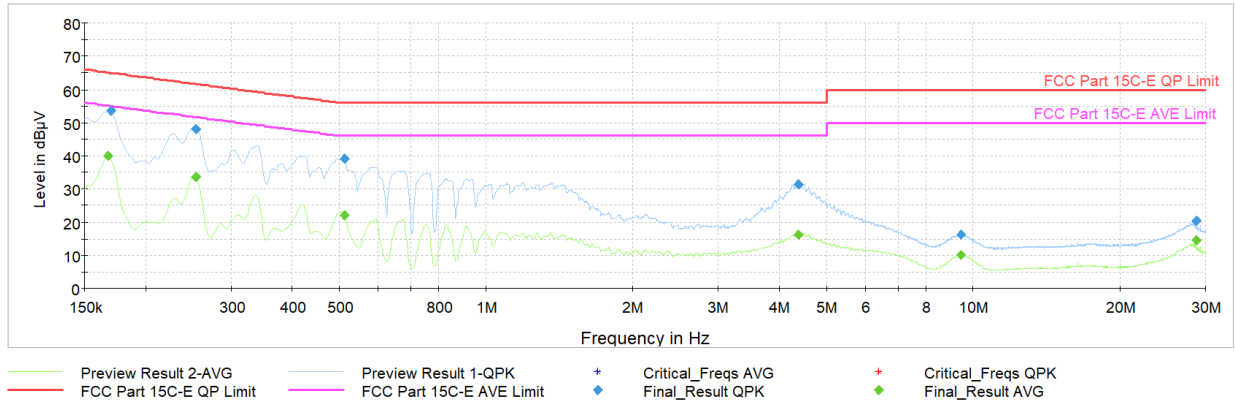
Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.168	FINAL	—	37.46	55.06	-17.60	L1	GND
0.170	FINAL	50.5	—	64.95	-14.48	L1	GND
0.251	FINAL	—	31.75	51.72	-19.96	L1	GND
0.251	FINAL	45.7	—	61.72	-16.07	L1	GND
0.508	FINAL	—	22.46	46.00	-23.54	L1	GND
0.510	FINAL	37.9	—	56.00	-18.07	L1	GND
4.268	FINAL	30.3	—	56.00	-25.75	L1	GND
4.268	FINAL	—	15.27	46.00	-30.73	L1	GND
16.395	FINAL	15.9	—	60.00	-44.12	L1	GND
16.395	FINAL	—	10.42	50.00	-39.58	L1	GND
28.685	FINAL	—	11.63	50.00	-38.37	L1	GND
28.687	FINAL	17.2	—	60.00	-42.76	L1	GND

Table 7-22. AC Line Conducted Data with Bluetooth LE Tx BF (L1, 1Mbps ePA – Ch.19 with AC/DC Adapter)

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Plot 7-191. 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
0.168	FINAL	—	40.12	55.06	-14.94	N	GND
0.170	FINAL	53.4	—	64.95	-11.54	N	GND
0.254	FINAL	—	33.63	51.64	-18.01	N	GND
0.254	FINAL	47.9	—	61.64	-13.76	N	GND
0.512	FINAL	—	22.07	46.00	-23.93	N	GND
0.512	FINAL	39.1	—	56.00	-16.95	N	GND
4.376	FINAL	31.6	—	56.00	-24.42	N	GND
4.376	FINAL	—	16.26	46.00	-29.74	N	GND
9.427	FINAL	16.1	—	60.00	-43.86	N	GND
9.427	FINAL	—	10.28	50.00	-39.72	N	GND
28.685	FINAL	—	14.69	50.00	-35.31	N	GND
28.687	FINAL	20.5	—	60.00	-39.47	N	GND

Table 7-23. AC Line Conducted Data with Bluetooth LE Tx BF (N, 1Mbps ePA – Ch.19 with AC/DC Adapter)

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8 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Apple Tablet Device FCC ID: BCGA3459 and IC: 579C-A3459** is in compliance with Part 15 Subpart C (15.247) of the FCC Rules and RSS-247 of the Innovation, Science and Economic Development Canada Rules.

FCC ID: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-08-R5.BCG	Test Dates: 09/10/2025 - 12/23/2025	EUT Type: Tablet Device	Page 140 of 140

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