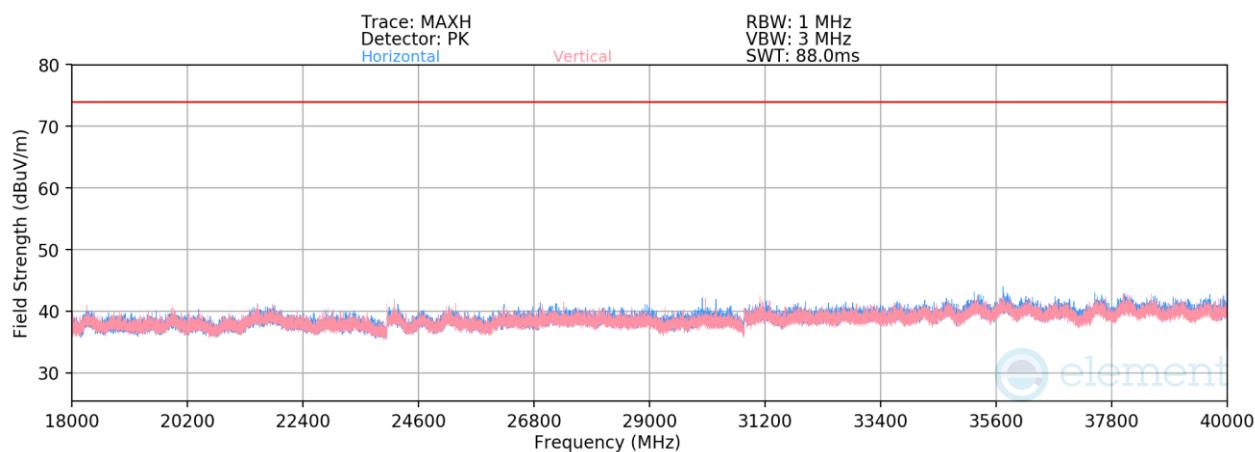


Plot 7-284. Radiated Spurious Emissions 1-18GHz TxBF (NB UNII HDR4 ePA – 5789MHz)



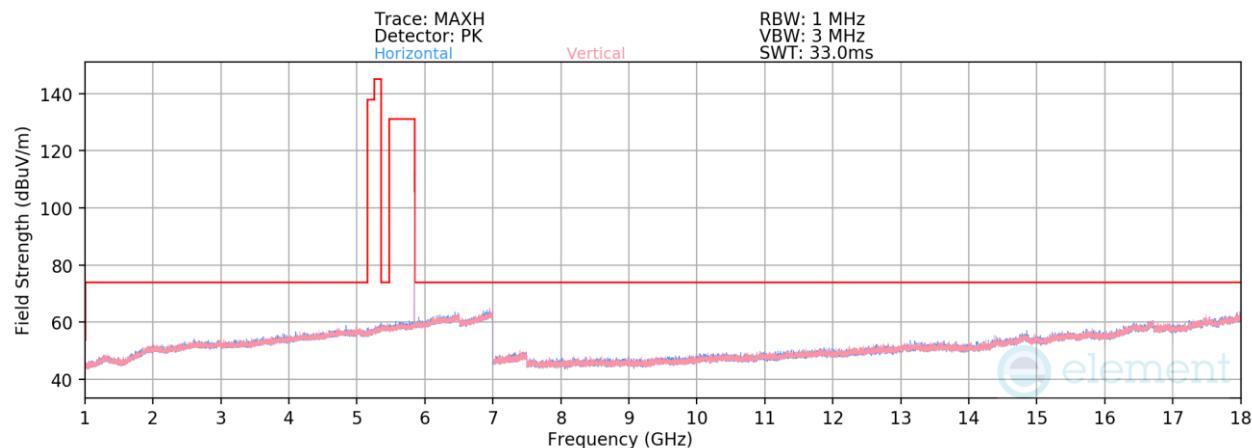
Plot 7-285. Radiated Spurious Emissions 18-40GHz TxBF (NB UNII HDR4 ePA – 5789MHz)

Mode:	HDR4
Data Rate:	4Mbps
Power Scheme:	ePA
Distance of Measurements:	3 Meters
Operating Frequency:	5789MHz

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]
*	Average	V	-	-	-82.08	13.99	38.91	53.98	-15.07
*	Peak	V	-	-	-71.21	13.99	49.78	73.98	-24.20
17367.00	Peak	V	-	-	-70.94	24.35	60.41	68.20	-7.79

Table 7-67. Radiated Spurious Emissions Measurements TxBF

FCC ID: BCGA2995	 element MEASUREMENT REPORT (CERTIFICATION)				Approved by: Technical Manager
Test Report S/N: 1C2405200018-19.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device			Page 209 of 242



Plot 7-286. Radiated Spurious Emissions 1-18GHz TxBF (NB UNII HDR4 ePA – 5844MHz)

Mode: HDR4
 Data Rate: 4Mbps
 Power Scheme: ePA
 Distance of Measurements: 3 Meters
 Operating Frequency: 5844MHz

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]
* 11688.00	Average	V	-	-	-81.63	13.61	38.98	53.98	-15.00
* 11688.00	Peak	V	-	-	-70.64	13.61	49.97	73.98	-24.01
17532.00	Peak	V	-	-	-71.70	25.27	60.57	68.20	-7.63

Table 7-68. Radiated Spurious Emissions Measurements TxBF

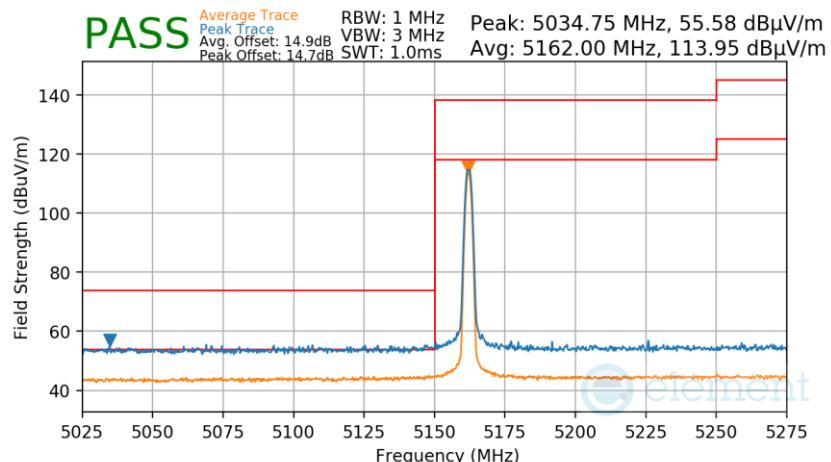
FCC ID: BCGA2995	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1C2405200018-19.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device		Page 210 of 242

7.6.1 Radiated Band Edge Measurements

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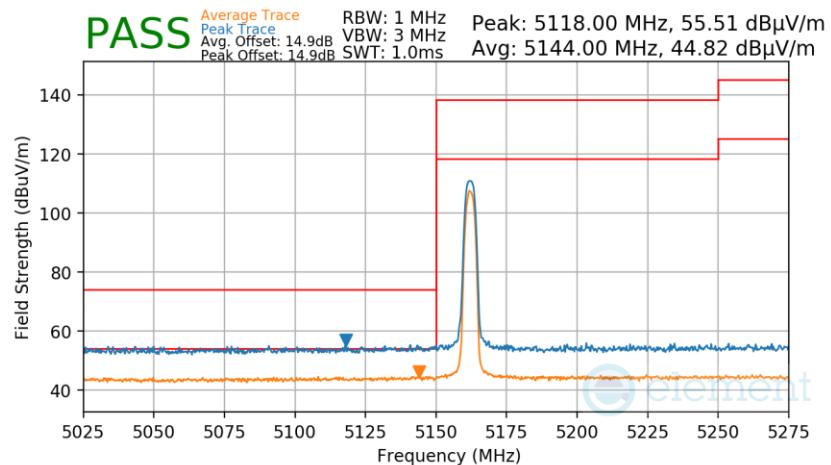
Antenna 5T

Mode: BDR
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5162MHz



Plot 7-287. Radiated Lower Band Edge Measurement Antenna 5T

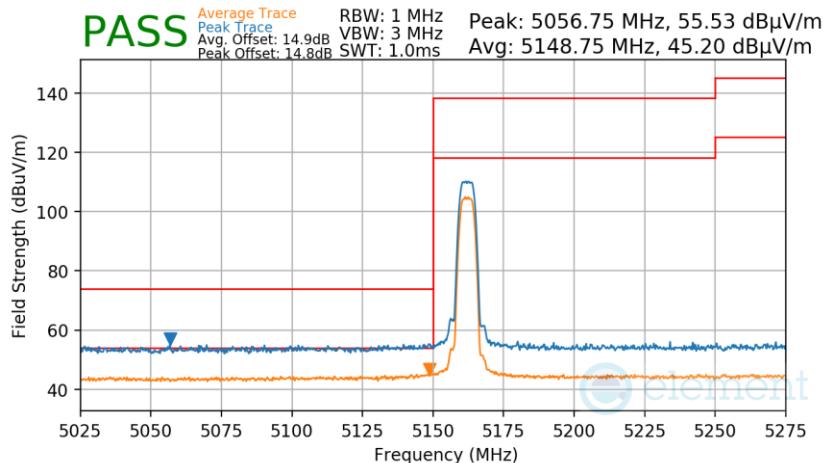
Mode: HDR4
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5162MHz



Plot 7-288. Radiated Lower Band Edge Measurement Antenna 5T

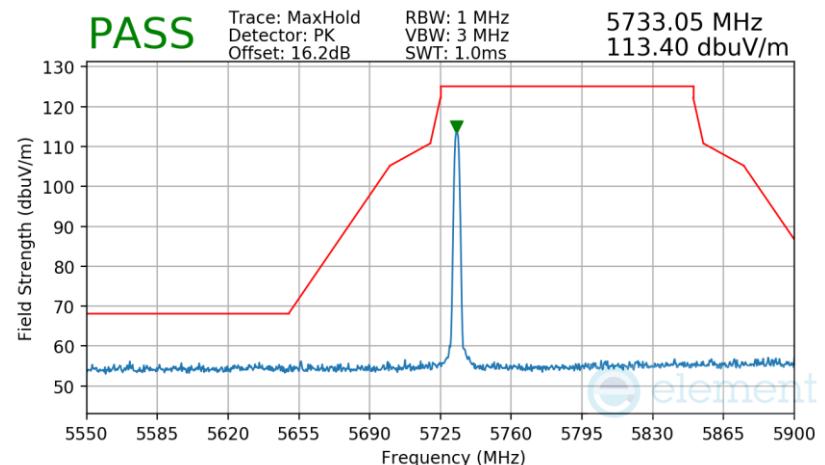
FCC ID: BCGA2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-19.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 211 of 242

Mode: HDR8
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5162MHz



Plot 7-289. Radiated Lower Band Edge Measurement Antenna 5T

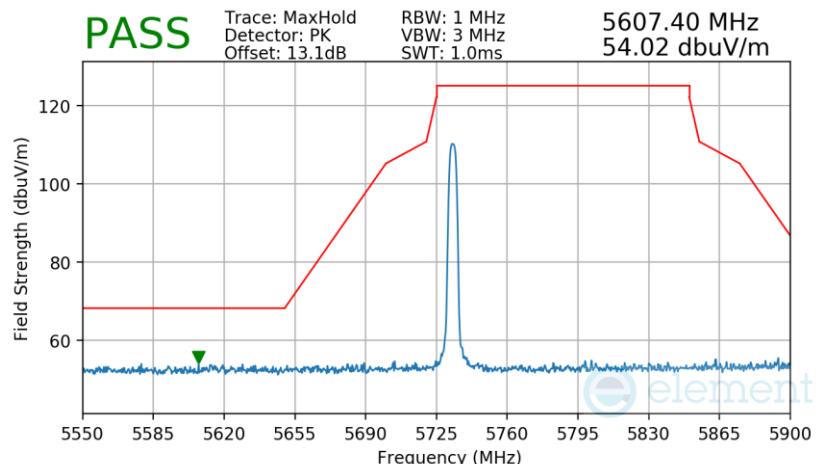
Mode: BDR
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5733MHz



Plot 7-290. Radiated Lower Band Edge Measurement Antenna 5T

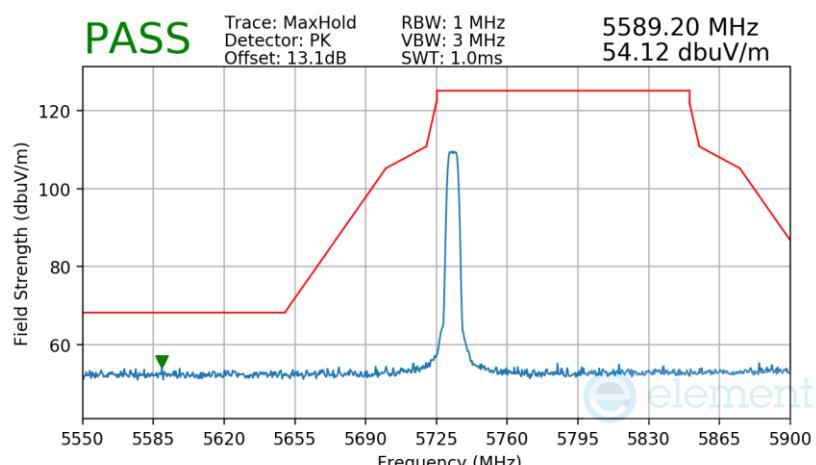
FCC ID: BCGA2995		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2405200018-19.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device		Page 212 of 242

Mode: HDR4
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5733MHz



Plot 7-291. Radiated Lower Band Edge Measurement Antenna 5T

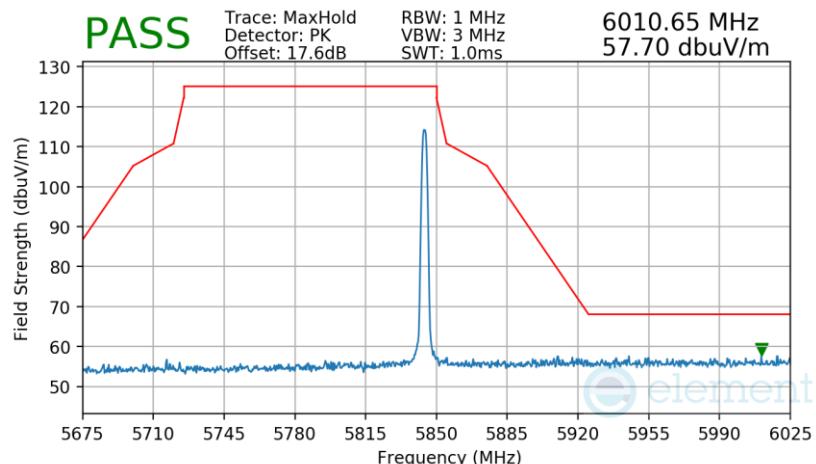
Mode: HDR8
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5733MHz



Plot 7-292. Radiated Lower Band Edge Measurement Antenna 5T

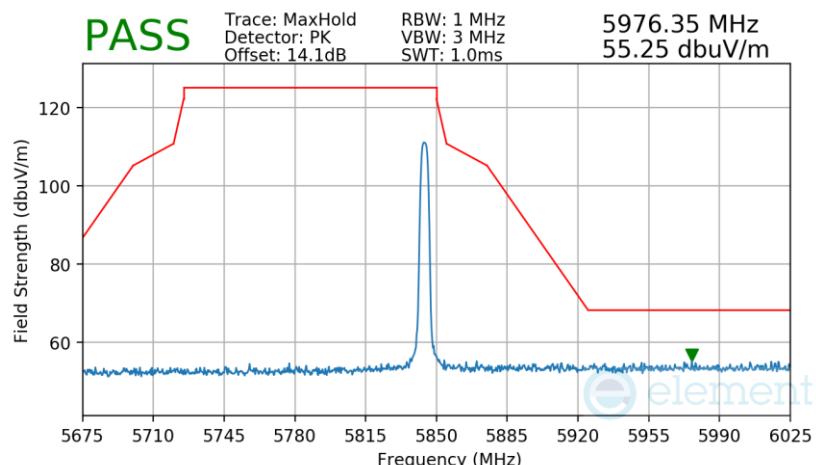
FCC ID: BCGA2995	 element		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-19.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device		Page 213 of 242

Mode: BDR
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5844MHz



Plot 7-293. Radiated Upper Band Edge Measurement Antenna 5T

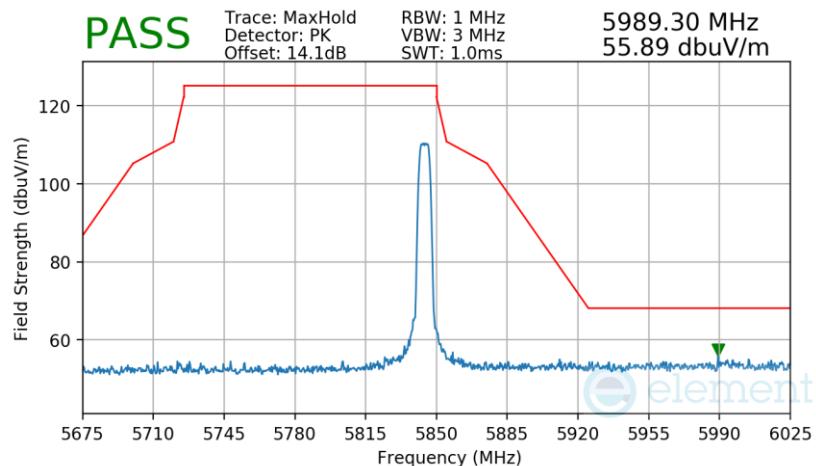
Mode: HDR4
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5844MHz



Plot 7-294. Radiated Upper Band Edge Measurement Antenna 5T

FCC ID: BCGA2995	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1C2405200018-19.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device		Page 214 of 242

Mode: HDR8
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5844MHz



Plot 7-295. Radiated Upper Band Edge Measurement Antenna 5T

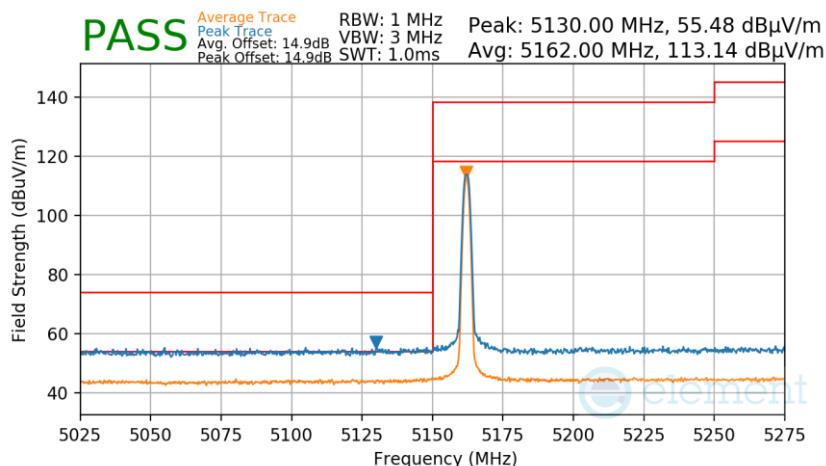
FCC ID: BCGA2995	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2405200018-19.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 215 of 242

7.6.1 Radiated Band Edge Measurements

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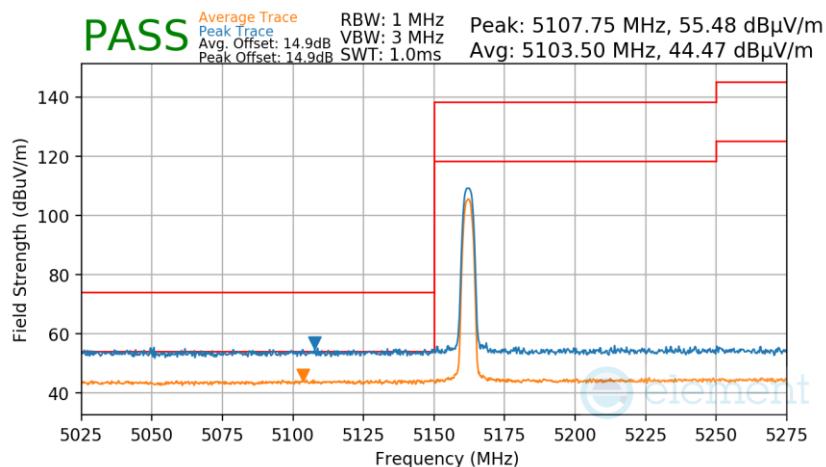
Antenna 3b

Mode:	BDR
Power Scheme:	ePA
Measurement Distance:	3 Meters
Operating Frequency:	5162MHz



Plot 7-296. Radiated Lower Band Edge Measurement Antenna 3b

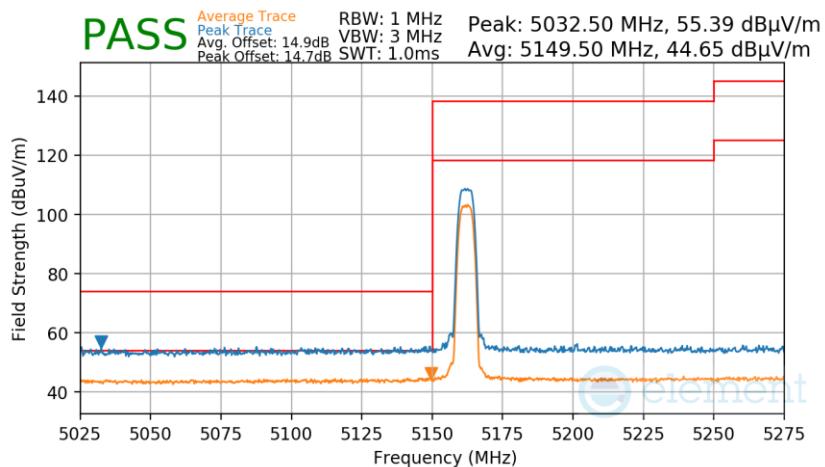
Mode:	HDR4
Power Scheme:	ePA
Measurement Distance:	3 Meters
Operating Frequency:	5162MHz



Plot 7-297. Radiated Lower Band Edge Measurement Antenna 3b

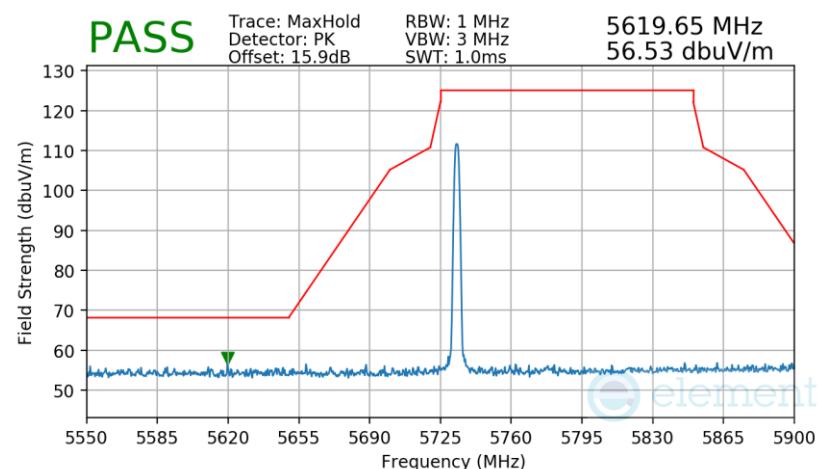
FCC ID: BCGA2995	 element		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-19.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 216 of 242	

Mode: HDR8
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5162MHz



Plot 7-298. Radiated Lower Band Edge Measurement Antenna 3b

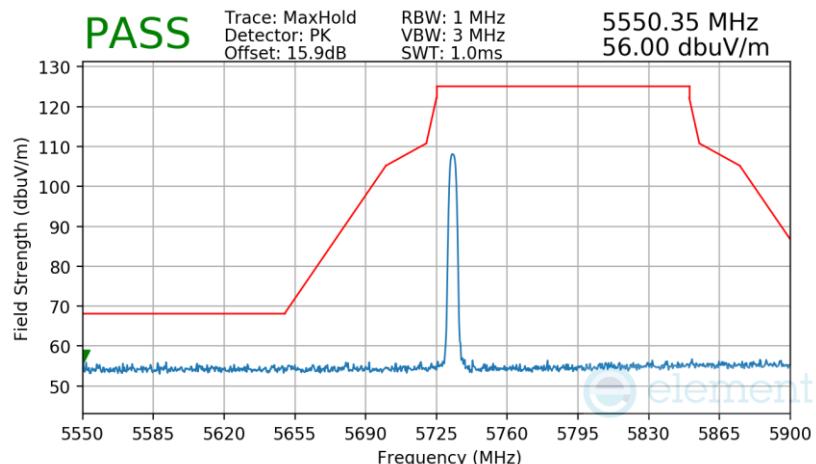
Mode: BDR
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5733MHz



Plot 7-299. Radiated Lower Band Edge Measurement Antenna 3b

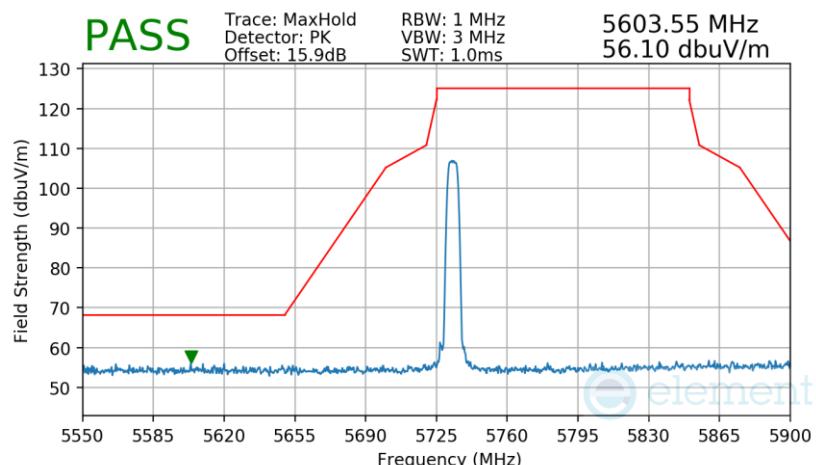
FCC ID: BCGA2995	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2405200018-19.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 217 of 242

Mode: HDR4
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5733MHz



Plot 7-300. Radiated Lower Band Edge Measurement Antenna 3b

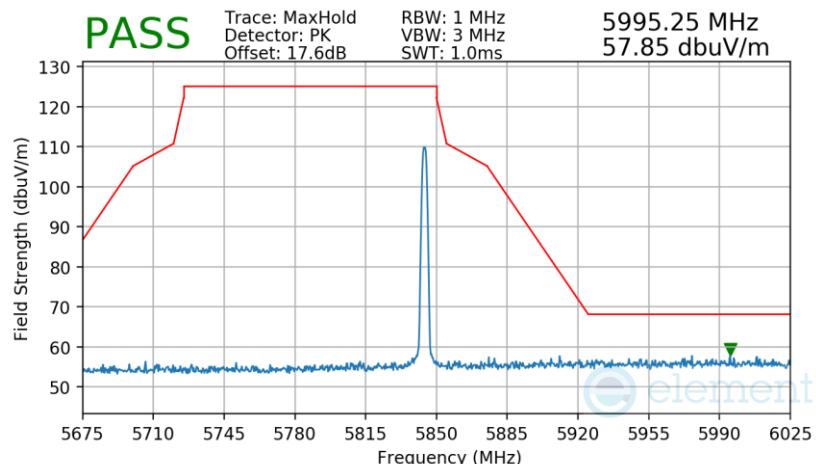
Mode: HDR8
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5733MHz



Plot 7-301. Radiated Lower Band Edge Measurement Antenna 3b

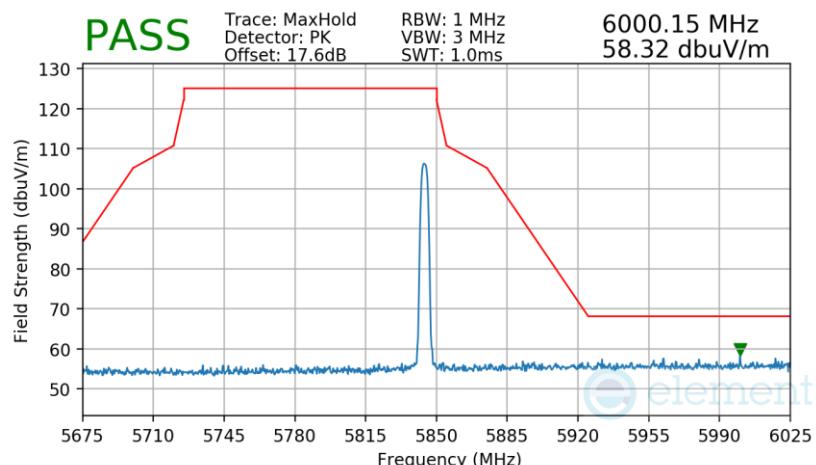
FCC ID: BCGA2995	 element		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-19.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device		Page 218 of 242

Mode: BDR
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5844MHz



Plot 7-302. Radiated Upper Band Edge Measurement Antenna 3b

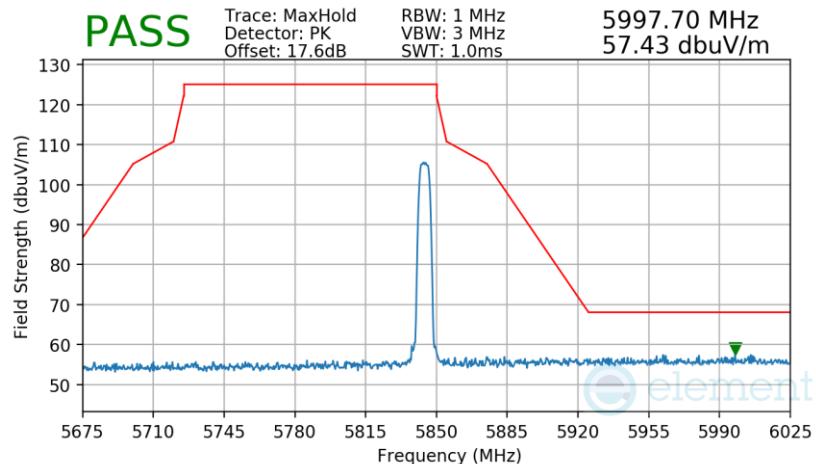
Mode: HDR4
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5844MHz



Plot 7-303. Radiated Upper Band Edge Measurement Antenna 3b

FCC ID: BCGA2995	 element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2405200018-19.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device		Page 219 of 242

Mode: HDR8
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5844MHz



Plot 7-304. Radiated Upper Band Edge Measurement Antenna 3b

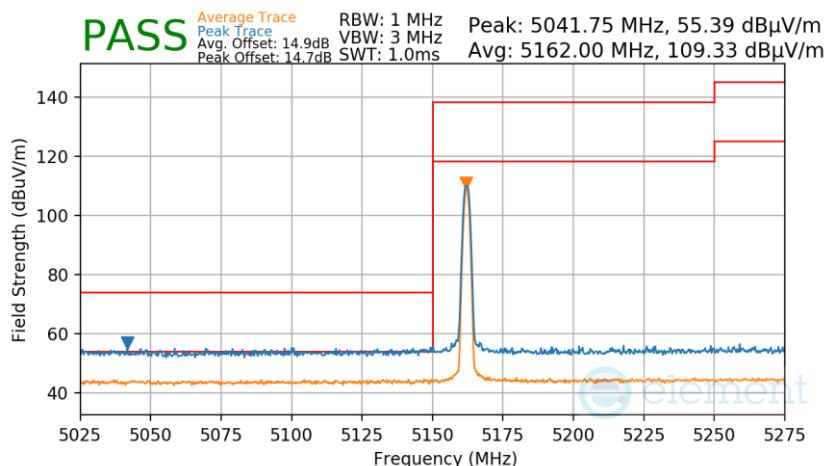
FCC ID: BCGA2995	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-19.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 220 of 242

Radiated Band Edge Measurements

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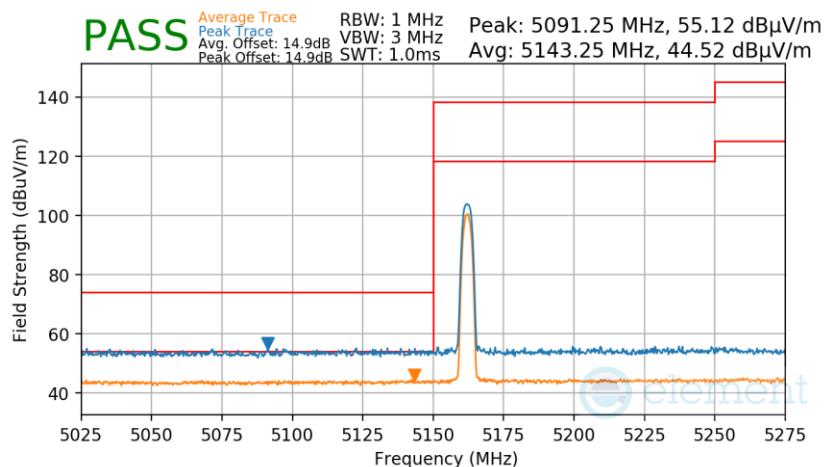
Antenna 1b

Mode:	BDR
Power Scheme:	ePA
Measurement Distance:	3 Meters
Operating Frequency:	5162MHz



Plot 7-305. Radiated Lower Band Edge Measurement Antenna 1b

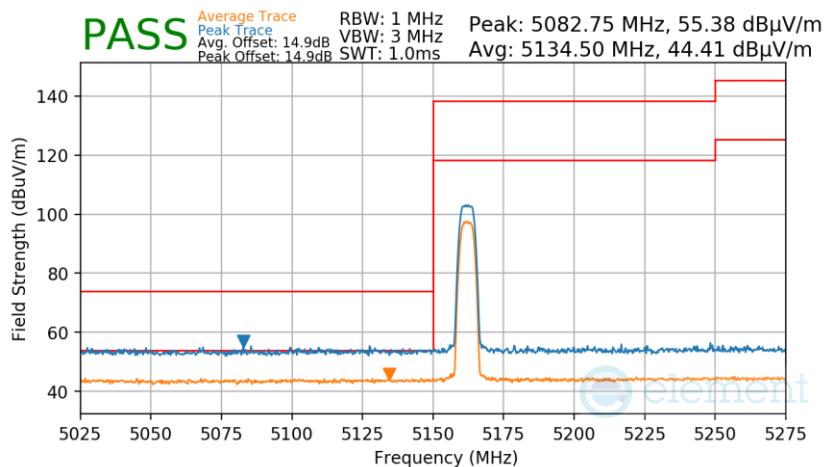
Mode:	HDR4
Power Scheme:	ePA
Measurement Distance:	3 Meters
Operating Frequency:	5162MHz



Plot 7-306. Radiated Lower Band Edge Measurement Antenna 1b

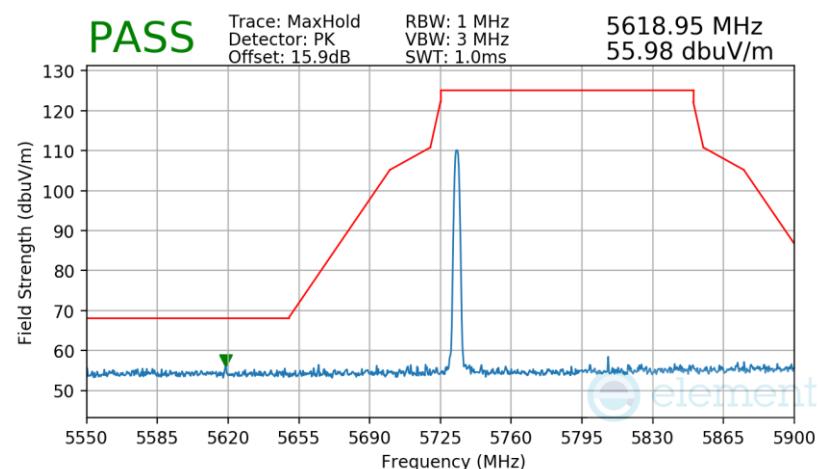
FCC ID: BCGA2995	 element		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-19.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device		Page 221 of 242

Mode: HDR8
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5162MHz



Plot 7-307. Radiated Lower Band Edge Measurement Antenna 1b

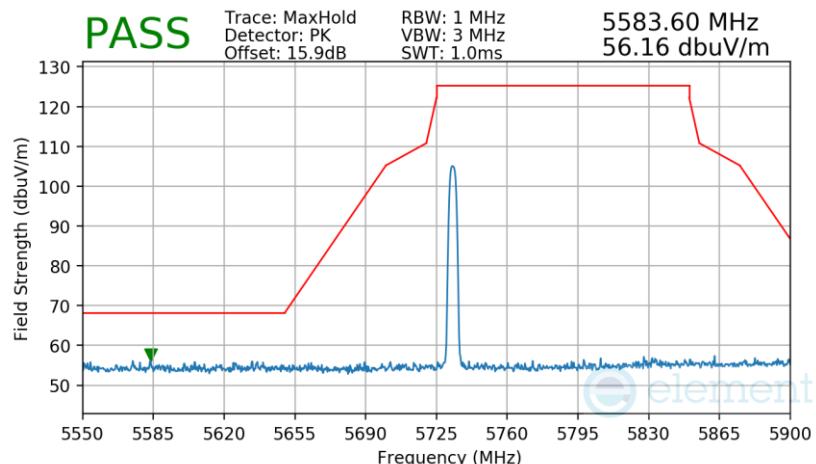
Mode: BDR
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5733MHz



Plot 7-308. Radiated Lower Band Edge Measurement Antenna 1b

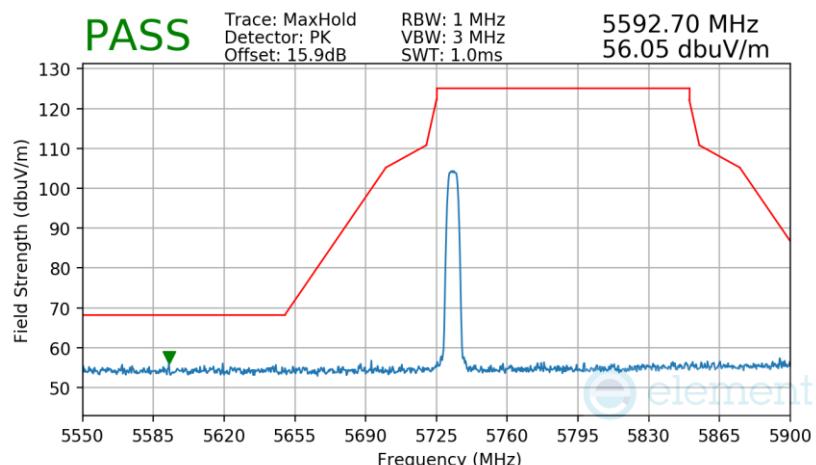
FCC ID: BCGA2995	 element		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-19.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device		Page 222 of 242

Mode: HDR4
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5733MHz



Plot 7-309. Radiated Lower Band Edge Measurement Antenna 1b

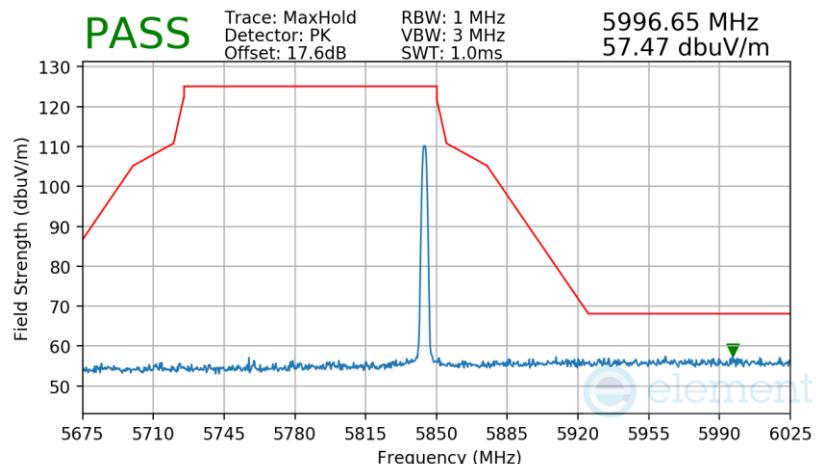
Mode: HDR8
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5733MHz



Plot 7-310. Radiated Lower Band Edge Measurement Antenna 1b

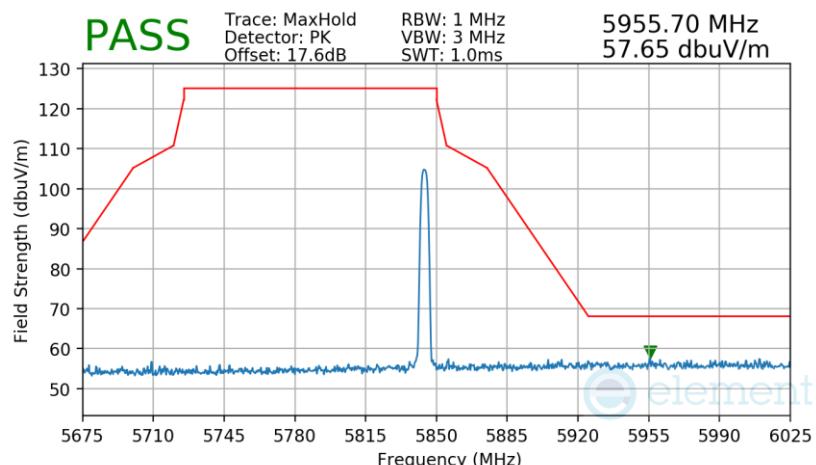
FCC ID: BCGA2995	 element		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-19.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device		Page 223 of 242

Mode: BDR
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5844MHz



Plot 7-311. Radiated Upper Band Edge Measurement Antenna 1b

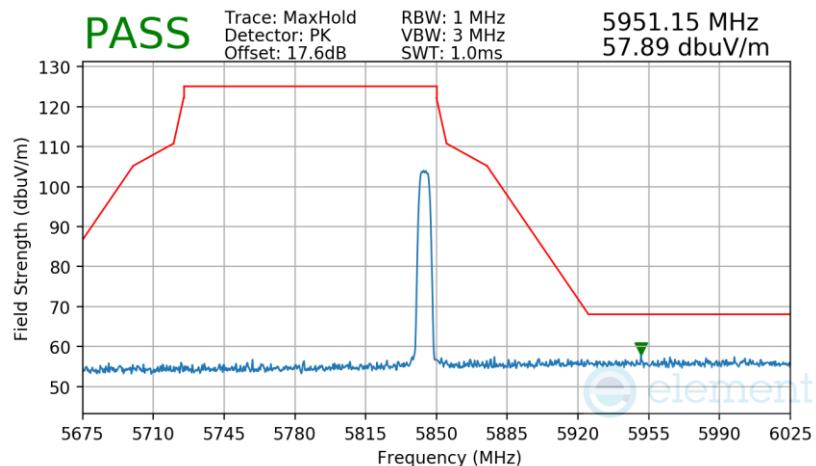
Mode: HDR4
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5844MHz



Plot 7-312. Radiated Upper Band Edge Measurement Antenna 1b

FCC ID: BCGA2995	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1C2405200018-19.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device		Page 224 of 242

Mode: HDR8
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5844MHz



Plot 7-313. Radiated Upper Band Edge Measurement Antenna 1b

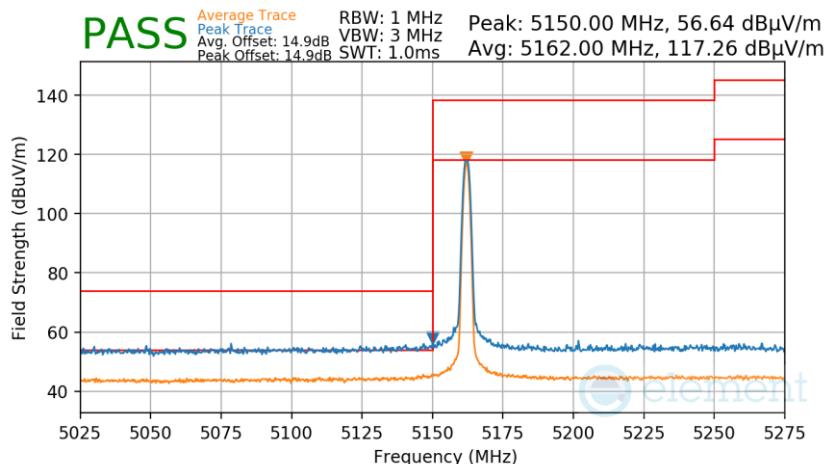
FCC ID: BCGA2995	 element		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-19.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device		Page 225 of 242

Radiated Band Edge Measurements

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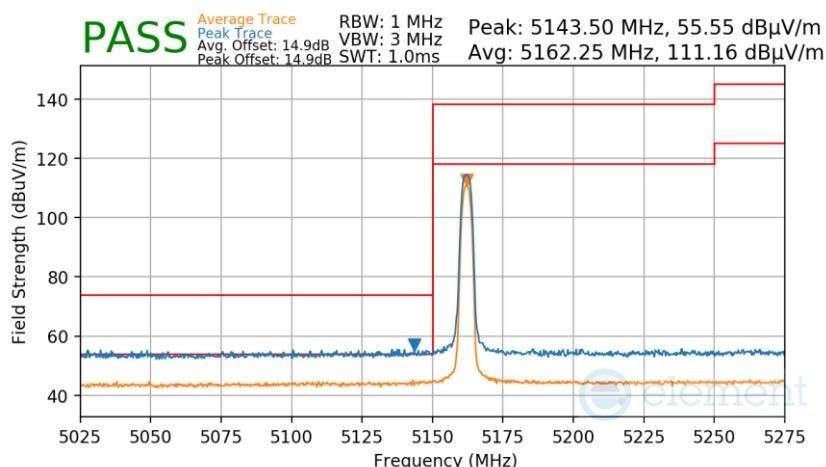
TxBF

Mode: BDR
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5162MHz



Plot 7-314. Radiated Lower Band Edge Measurement Antenna TxBF

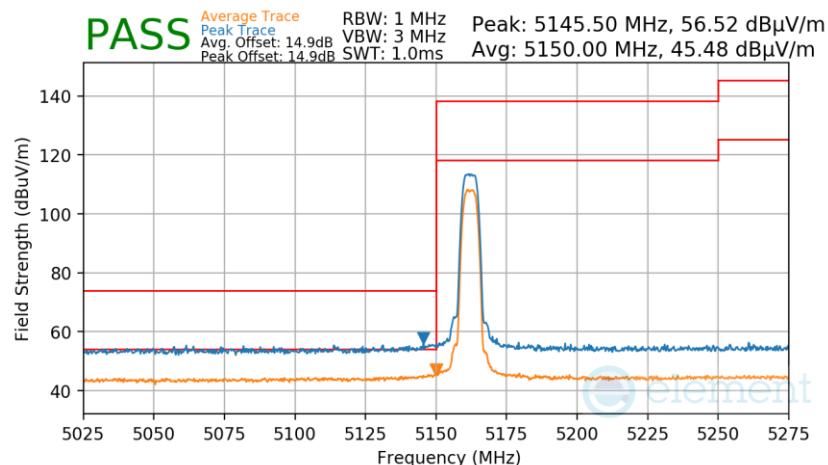
Mode: HDR4
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5162MHz



Plot 7-315. Radiated Lower Band Edge Measurement Antenna TxBF

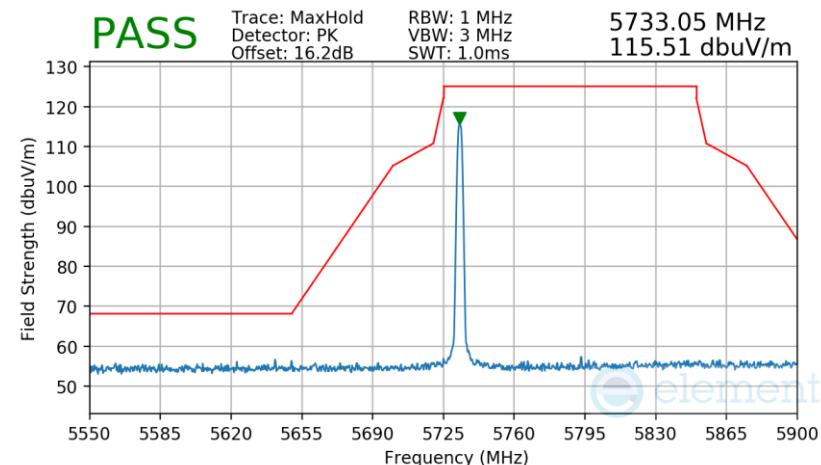
FCC ID: BCGA2995	 element MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1C2405200018-19.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device		Page 226 of 242

Mode: HDR8
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5162MHz



Plot 7-316. Radiated Lower Band Edge Measurement Antenna TxBF

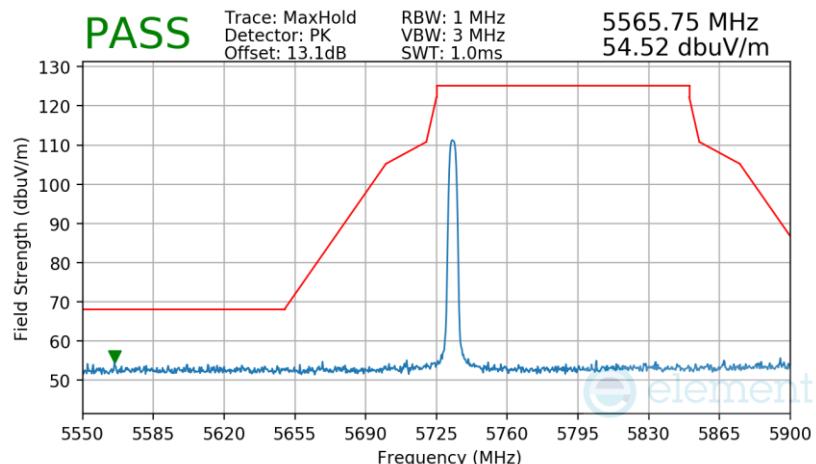
Mode: BDR
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5733MHz



Plot 7-317. Radiated Lower Band Edge Measurement Antenna TxBF

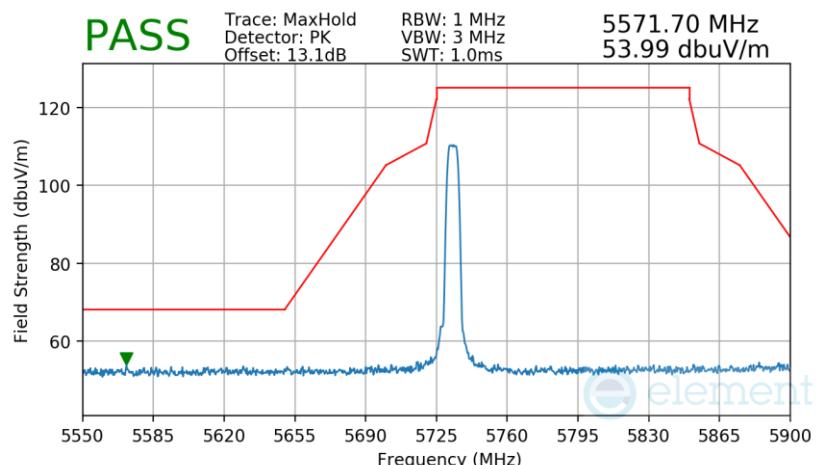
FCC ID: BCGA2995	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1C2405200018-19.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device		Page 227 of 242

Mode: HDR4
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5733MHz



Plot 7-318. Radiated Lower Band Edge Measurement Antenna TxBF

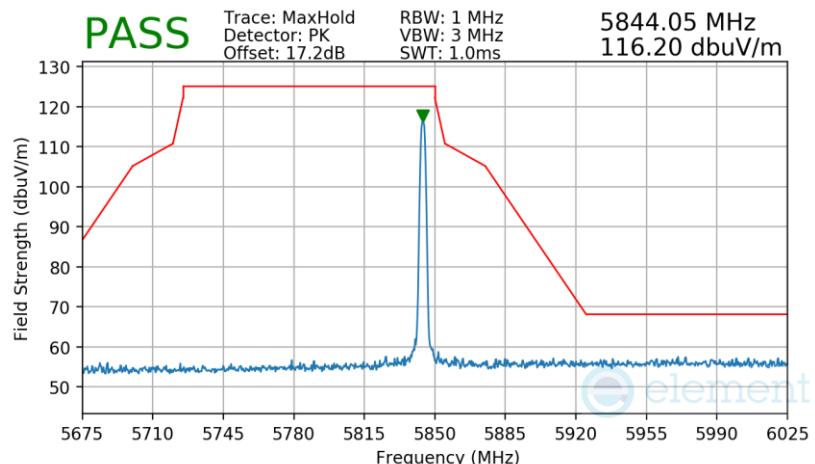
Mode: HDR8
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5733MHz



Plot 7-319. Radiated Lower Band Edge Measurement Antenna TxBF

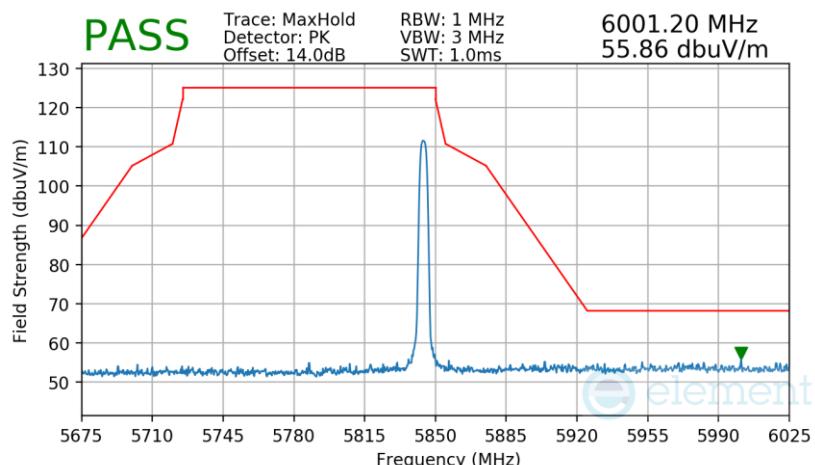
FCC ID: BCGA2995	 element			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-19.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device			Page 228 of 242

Mode: BDR
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5844MHz



Plot 7-320. Radiated Upper Band Edge Measurement Antenna TxBF

Mode: HDR4
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5844MHz

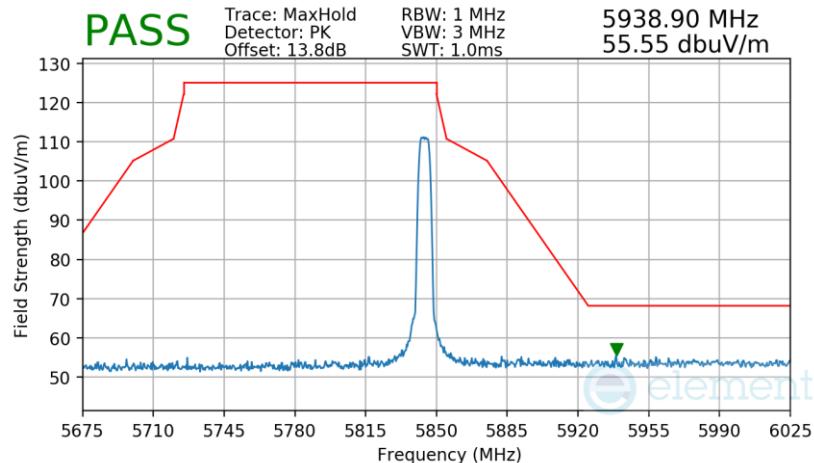


Plot 7-321. Radiated Upper Band Edge Measurement Antenna TxBF

FCC ID: BCGA2995	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1C2405200018-19.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device		Page 229 of 242



Mode: HDR8
Power Scheme: ePA
Measurement Distance: 3 Meters
Operating Frequency: 5844MHz



Plot 7-322. Radiated Upper Band Edge Measurement Antenna TxBF

FCC ID: BCGA2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-19.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 230 of 242

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7.7 Radiated Spurious Emissions – Below 1GHz

§15.209

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 must not exceed the limits shown in Table 7-69 per Section 15.209.

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 7-69. Radiated Limits

Test Procedures Used

ANSI C63.10-2020

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: BCGA2995	 element		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-19.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device		Page 231 of 242

Test Setup

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

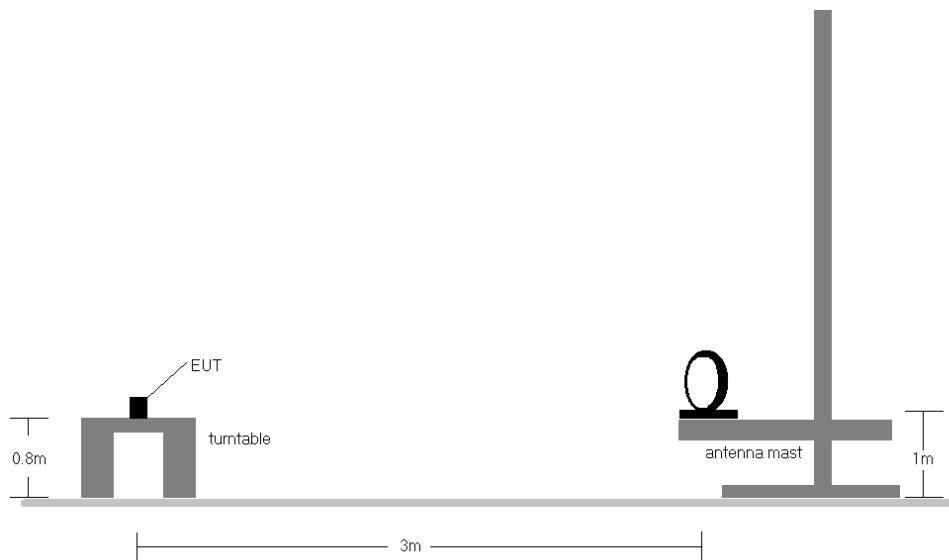


Figure 7-6. Radiated Test Setup < 30MHz

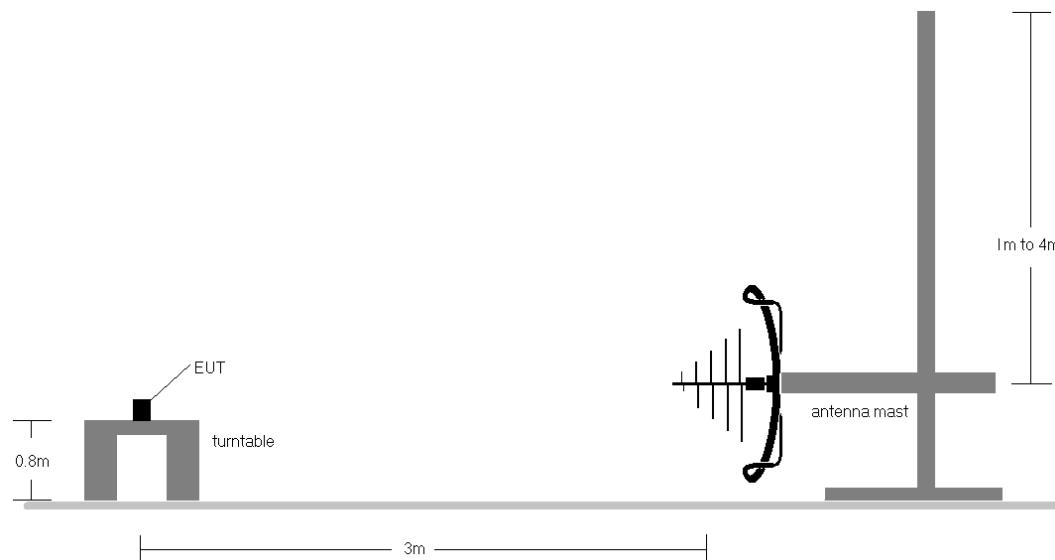


Figure 7-7. Radiated Test Setup < 1GHz

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Test Notes

1. All emissions lying in restricted bands specified in §15.205 are below the limit shown in Table 7-69.
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 for emissions 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 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 to 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

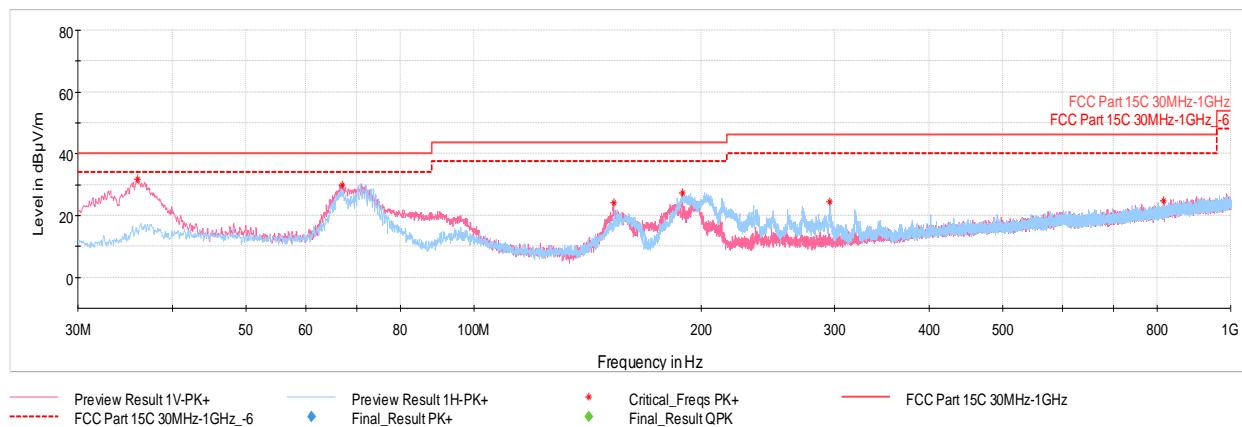
- Field Strength Level $[\text{dB}_{\mu\text{V/m}}]$ = Analyzer Level $[\text{dBm}] + 107 + \text{AFCL} [\text{dB/m}]$
- AFCL $[\text{dB/m}]$ = Antenna Factor $[\text{dB/m}] + \text{Cable Loss} [\text{dB}] - \text{Preamplifier Gain} [\text{dB}]$
- Margin $[\text{dB}]$ = Field Strength Level $[\text{dB}_{\mu\text{V/m}}]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

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Radiated Spurious Emissions (Below 1GHz)

§15.209

TxBF

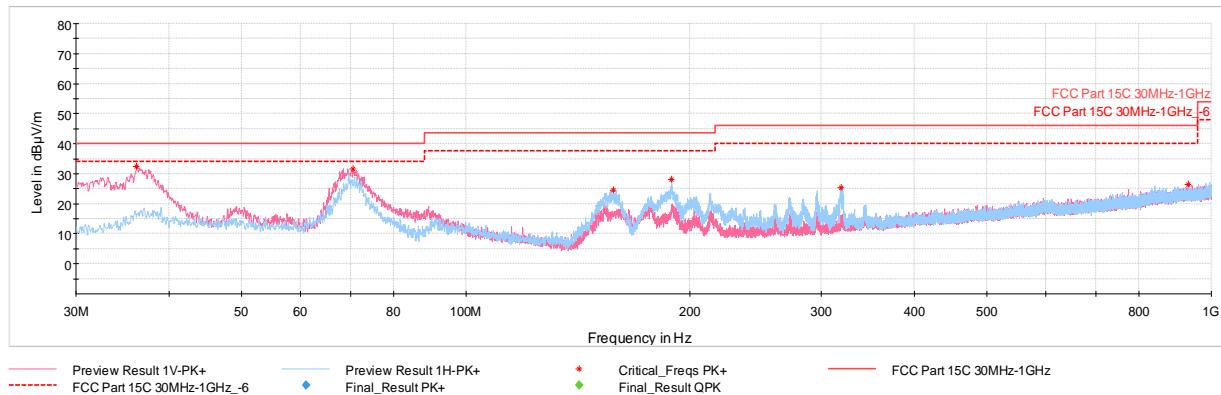


Plot 7-323. Radiated Spurious Emissions Below 1GHz TxBF (NB UNII BDR ePA – 5204MHz), with AC/DC Adapter and USB-C cable

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]
35.97	Max Peak	V	100	15	-60.28	-14.92	31.80	40.00	-8.20
67.01	Max Peak	V	100	157	-59.79	-17.21	30.00	40.00	-10.00
153.00	Max Peak	V	100	344	-63.36	-19.44	24.20	43.52	-19.32
188.79	Max Peak	H	200	287	-62.53	-17.15	27.32	43.52	-16.20
295.64	Max Peak	H	100	96	-68.61	-14.01	24.38	46.02	-21.64
815.75	Max Peak	H	100	184	-78.36	-3.97	24.67	46.02	-21.35

Table 7-70. Radiated Spurious Emissions Below 1GHz TxBF (NB UNII BDR ePA – 5204MHz), with AC/DC Adapter and USB-C cable

FCC ID: BCGA2995	 element	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
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Plot 7-324. Radiated Spurious Emissions Below 1GHz TxBF (NB UNII HDR4 ePA – 5204MHz), with AC/DC Adapter and USB-C cable

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]
36.21	Max Peak	V	100	244	-59.83	-14.84	32.33	40.00	-7.67
70.60	Max Peak	V	200	168	-56.66	-18.60	31.74	40.00	-8.26
157.85	Max Peak	H	200	161	-63.39	-19.15	24.46	43.52	-19.06
188.94	Max Peak	H	100	200	-61.80	-17.13	28.07	43.52	-15.45
318.92	Max Peak	H	100	267	-68.41	-13.26	25.33	46.02	-20.69
931.18	Max Peak	V	100	88	-78.52	-1.92	26.56	46.02	-19.46

Table 7-71. Radiated Spurious Emissions Below 1GHz TxBF (NB UNII HDR4 ePA – 5204MHz), with AC/DC Adapter and USB-C cable

FCC ID: BCGA2995	 element	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
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7.8 AC Line Conducted Emissions Measurement

§15.207

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. All data rates and modes were investigated for AC Line conducted spurious emissions.

All conducted emissions must not exceed the limits shown in the table below, per Section 15.207.

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 7-72. Conducted Limits

*Decreases with the logarithm of the frequency.

Test Procedures Used

ANSI C63.10-2020, 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.

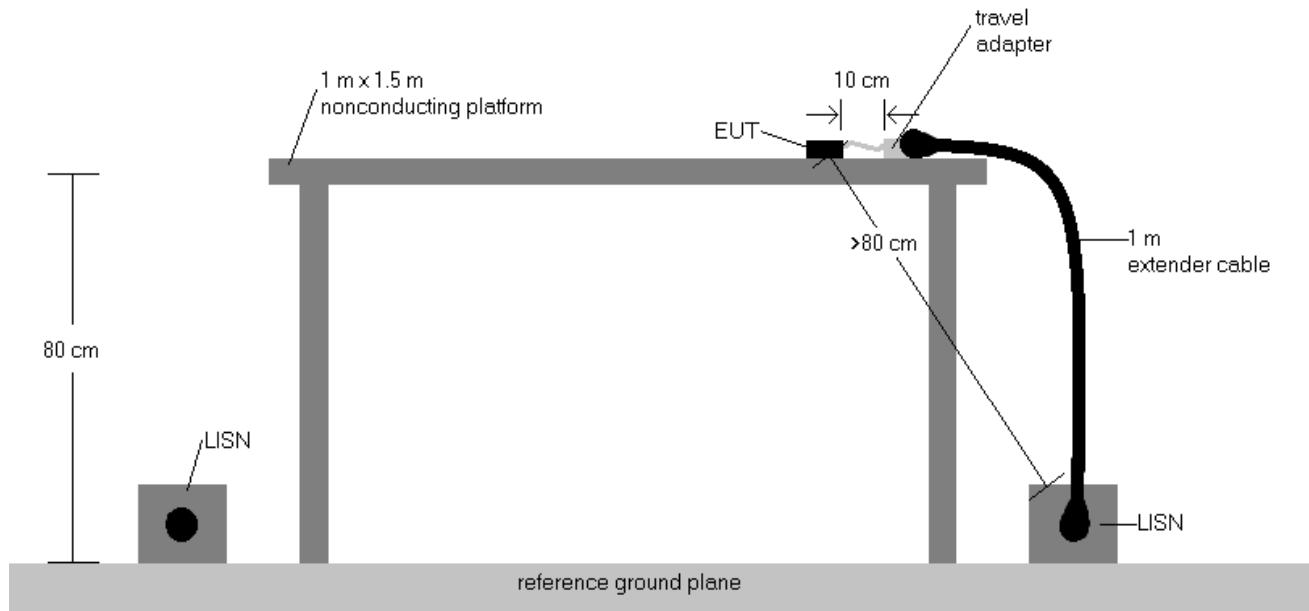
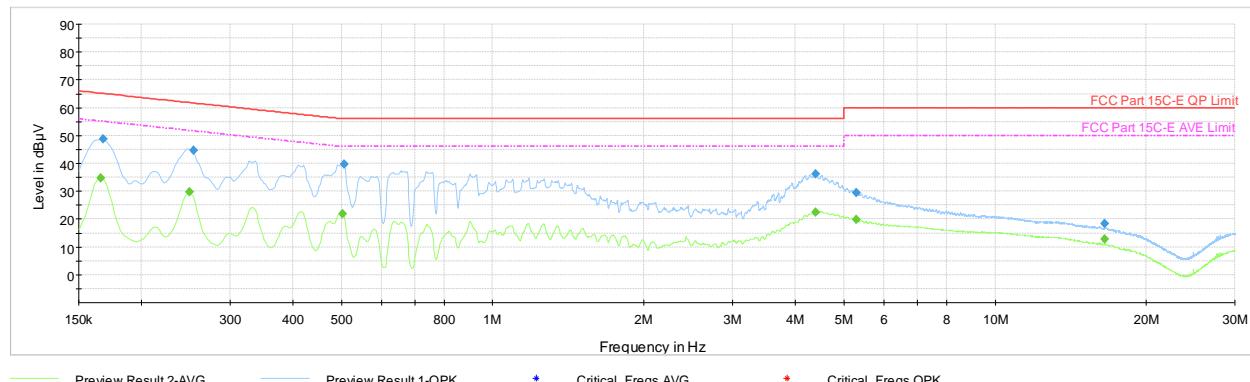


Figure 7-8. Test Instrument & Measurement Setup

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 to 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 15.207.
4. Corr. (dB) = Cable loss (dB) + LISN insertion factor (dB)
5. QP/AV Level (dB μ V) = QP/AV Analyzer/Receiver Level (dB μ V) + Correction Factor (dB)
6. Margin (dB) = QP/AV Level (dB μ V) - QP/AV Limit (dB μ V)
7. Traces shown in plots are made using quasi-peak and average detectors.
8. Deviations to the Specifications: None.

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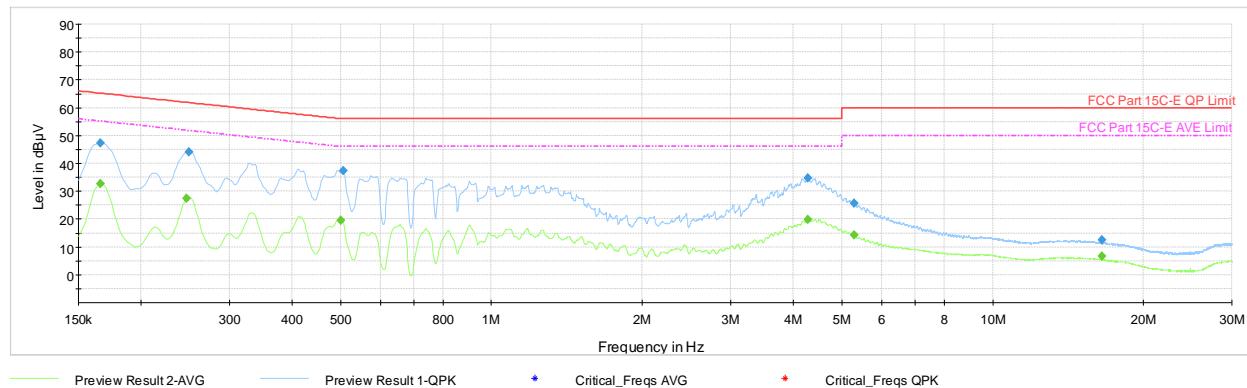


Plot 7-325. AC Line Conducted Plot TxBF (NB UNII BDR ePA – 5204MHz) (L1) with AC/DC Adapter and USB-C cable

Frequency [MHz]	Process State	QuasiPeak [dB μ V]	Average [dB μ V]	Limit [dB μ V]	Margin [dB]	Line	PE
0.166	FINAL	—	34.80	55.17	-20.37	L1	GND
0.168	FINAL	48.7	—	65.06	-16.36	L1	GND
0.249	FINAL	—	29.72	51.79	-22.07	L1	GND
0.254	FINAL	44.6	—	61.64	-17.01	L1	GND
0.503	FINAL	—	21.90	46.00	-24.10	L1	GND
0.506	FINAL	39.7	—	56.00	-16.33	L1	GND
4.387	FINAL	36.1	—	56.00	-19.88	L1	GND
4.391	FINAL	—	22.46	46.00	-23.54	L1	GND
5.285	FINAL	29.6	—	60.00	-30.39	L1	GND
5.289	FINAL	—	19.84	50.00	-30.16	L1	GND
16.526	FINAL	—	12.88	50.00	-37.12	L1	GND
16.526	FINAL	18.5	—	60.00	-41.55	L1	GND

Table 7-73. AC Line Conducted Data TxBF (NB UNII BDR ePA – 5204MHz) (L1) with AC/DC Adapter and USB-C cable

FCC ID: BCGA2995		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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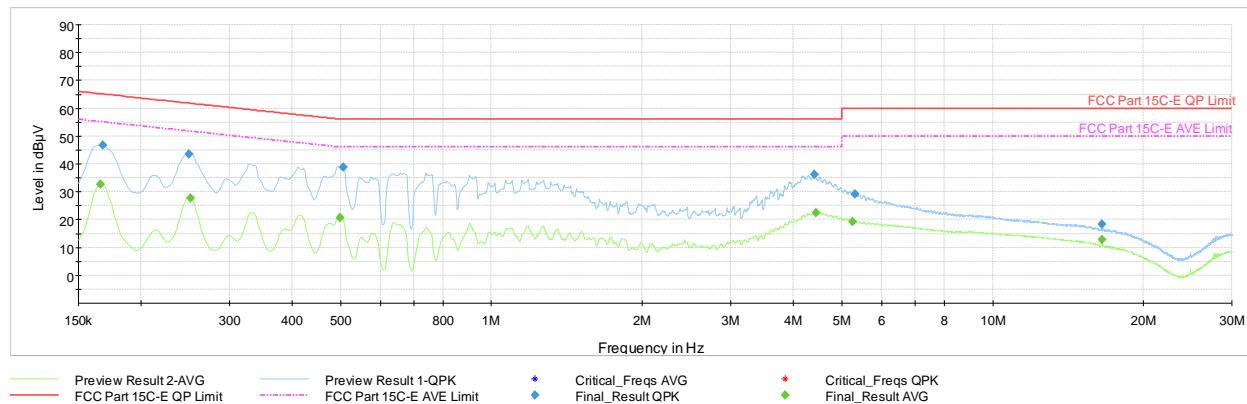


Plot 7-326. AC Line Conducted Plot TxBF (NB UNII BDR ePA – 5204MHz) (N) with AC/DC Adapter and USB-C cable

Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.166	FINAL	—	32.78	55.17	-22.39	N	GND
0.166	FINAL	47.2	—	65.17	-17.98	N	GND
0.247	FINAL	—	27.48	51.87	-24.39	N	GND
0.249	FINAL	44.0	—	61.79	-17.80	N	GND
0.501	FINAL	—	19.59	46.00	-26.41	N	GND
0.506	FINAL	37.3	—	56.00	-18.73	N	GND
4.281	FINAL	34.8	—	56.00	-21.16	N	GND
4.283	FINAL	—	19.81	46.00	-26.19	N	GND
5.285	FINAL	25.6	—	60.00	-34.40	N	GND
5.296	FINAL	—	14.27	50.00	-35.73	N	GND
16.526	FINAL	—	6.55	50.00	-43.45	N	GND
16.526	FINAL	12.5	—	60.00	-47.51	N	GND

Table 7-74. AC Line Conducted TxBF (NB UNII BDR ePA – 5204MHz) (N) with AC/DC Adapter and USB-C cable

FCC ID: BCGA2995	 element MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
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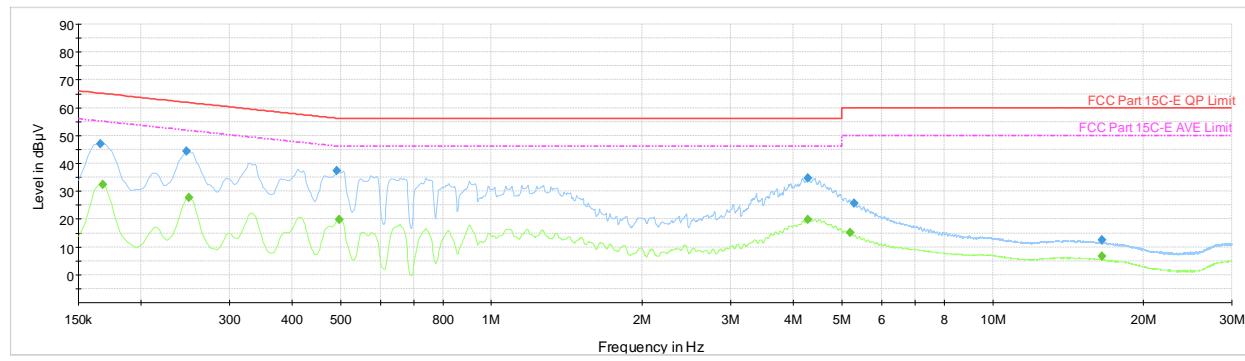


Plot 7-327. AC Line Conducted Plot TxBF (NB UNII HDR4 ePA – 5204MHz) (L1) with AC/DC Adapter and USB-C cable

Frequency [MHz]	Process State	QuasiPeak [dB μ V]	Average [dB μ V]	Limit [dB μ V]	Margin [dB]	Line	PE
0.166	FINAL	—	32.59	55.17	-22.58	L1	GND
0.168	FINAL	46.6	—	65.06	-18.42	L1	GND
0.249	FINAL	43.6	—	61.79	-18.20	L1	GND
0.251	FINAL	—	27.79	51.72	-23.92	L1	GND
0.499	FINAL	—	20.79	46.02	-25.23	L1	GND
0.506	FINAL	38.8	—	56.00	-17.22	L1	GND
4.403	FINAL	36.1	—	56.00	-19.89	L1	GND
4.443	FINAL	—	22.36	46.00	-23.64	L1	GND
5.262	FINAL	—	19.30	50.00	-30.70	L1	GND
5.307	FINAL	29.3	—	60.00	-30.68	L1	GND
16.541	FINAL	—	12.91	50.00	-37.09	L1	GND
16.541	FINAL	18.4	—	60.00	-41.59	L1	GND

Table 7-75. AC Line Conducted Data TxBF (NB UNII HDR4 ePA – 5204MHz) (L1) with AC/DC Adapter and USB-C cable

FCC ID: BCGA2995	 element	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
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Plot 7-328. AC Line Conducted Plot TxBF (NB UNII HDR4 ePA – 5204MHz) (N) with AC/DC Adapter and USB-C cable

Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.166	FINAL	47.1	—	65.17	-18.08	N	GND
0.168	FINAL	—	32.46	55.06	-22.60	N	GND
0.247	FINAL	44.4	—	61.87	-17.52	N	GND
0.249	FINAL	—	27.73	51.79	-24.06	N	GND
0.492	FINAL	37.4	—	56.13	-18.72	N	GND
0.497	FINAL	—	19.86	46.06	-26.20	N	GND
4.279	FINAL	—	19.91	46.00	-26.09	N	GND
4.281	FINAL	34.9	—	56.00	-21.14	N	GND
5.195	FINAL	—	15.08	50.00	-34.92	N	GND
5.287	FINAL	25.7	—	60.00	-34.33	N	GND
16.537	FINAL	—	6.66	50.00	-43.34	N	GND
16.537	FINAL	12.6	—	60.00	-47.41	N	GND

Table 7-76. AC Line Conducted TxBF (NB UNII HDR4 ePA – 5204MHz) (N) with AC/DC Adapter and USB-C cable

FCC ID: BCGA2995	 element MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
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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: BCGA2995** is in compliance with Part 15 Subpart E (15.407) of the FCC Rules.

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