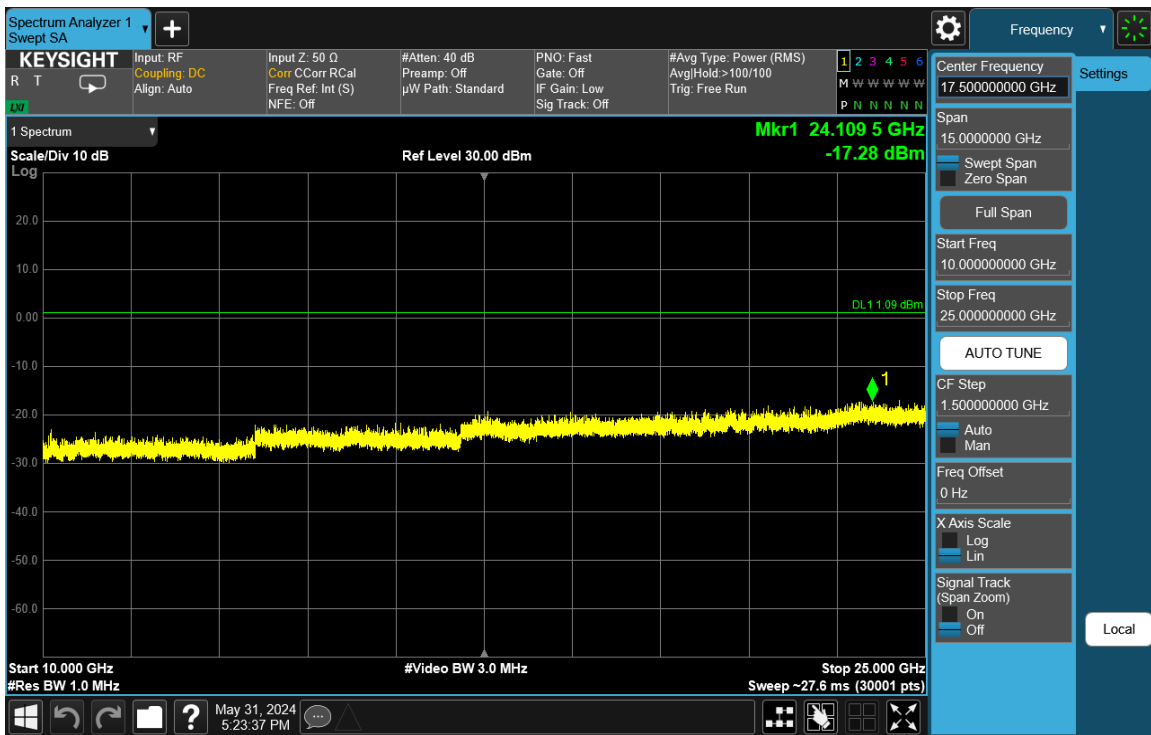
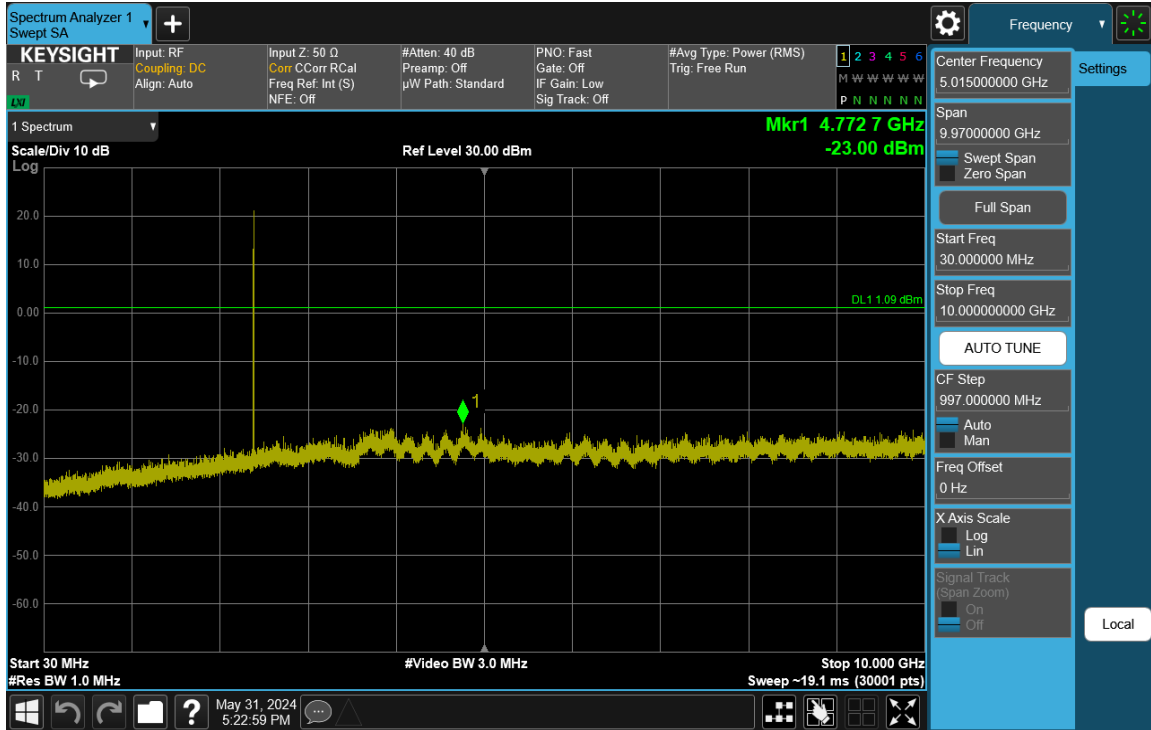
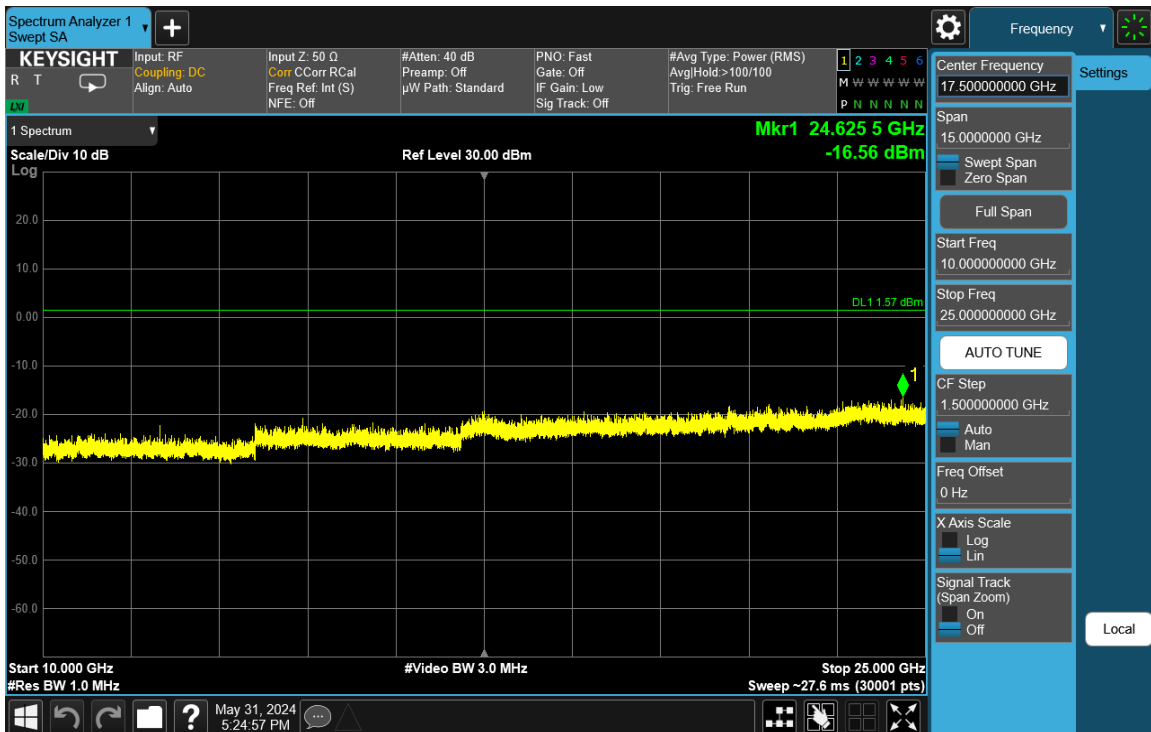
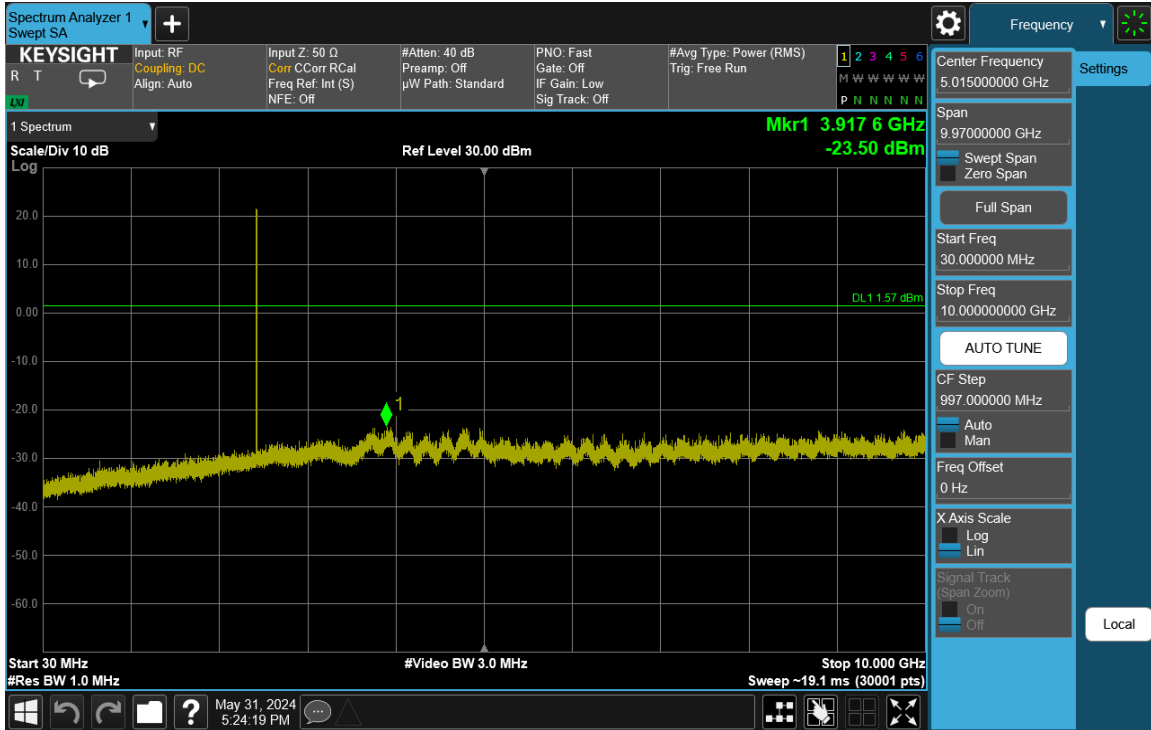


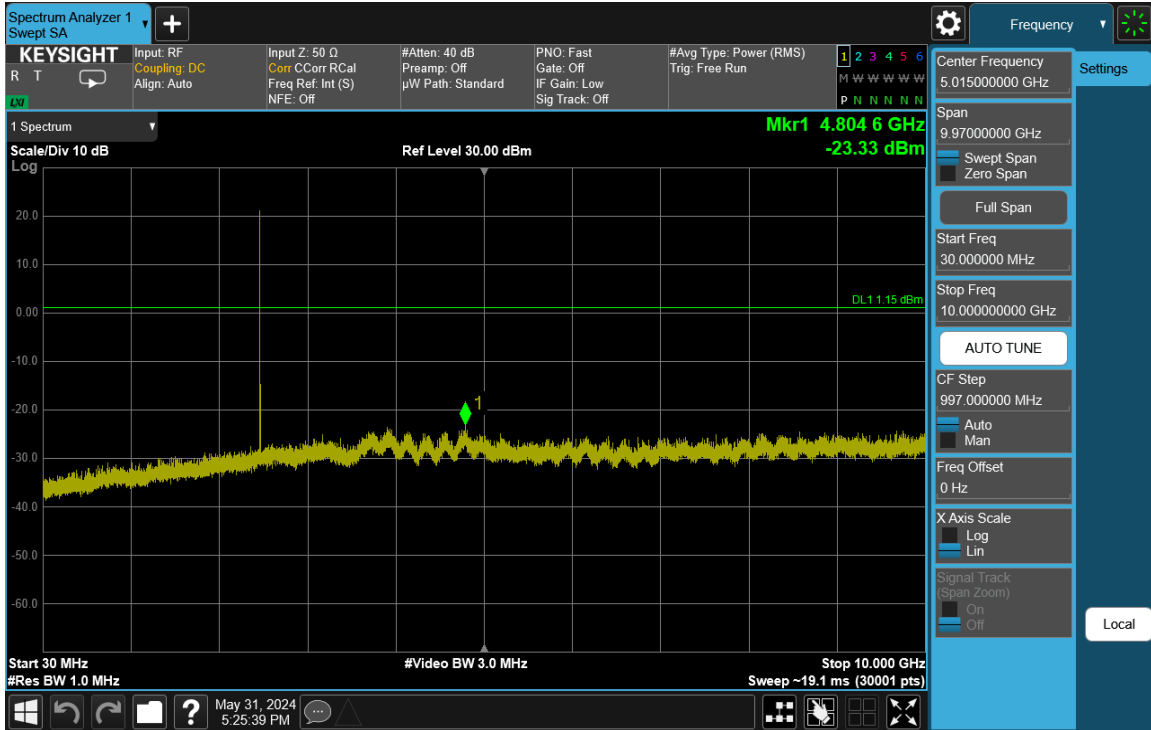
# Antenna WF7



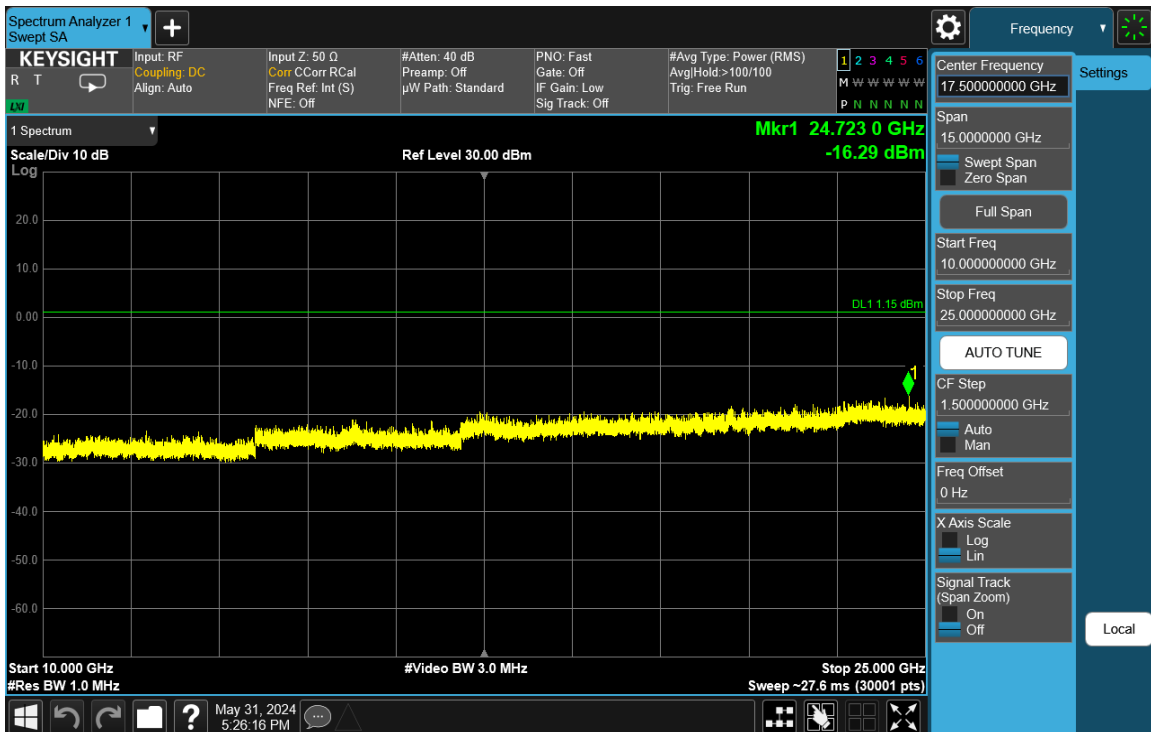
FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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<b>Test Report S/N:</b> 1C2405200017-07-R2.BCG	<b>Test Dates:</b> 5/20/2024 - 7/01/2024	<b>EUT Type:</b> Tablet Device	Page 69 of 108



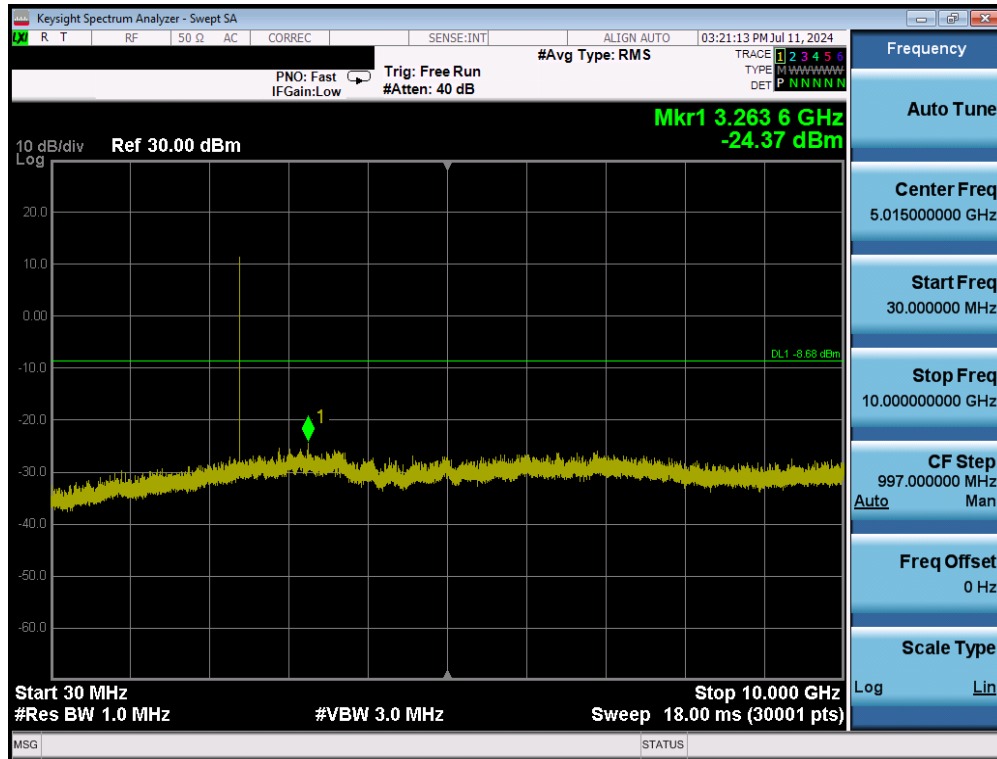
Plot 7-77. Conducted Spurious Plot Antenna WF7 (Bluetooth, GFSK, ePA – Ch. 78)



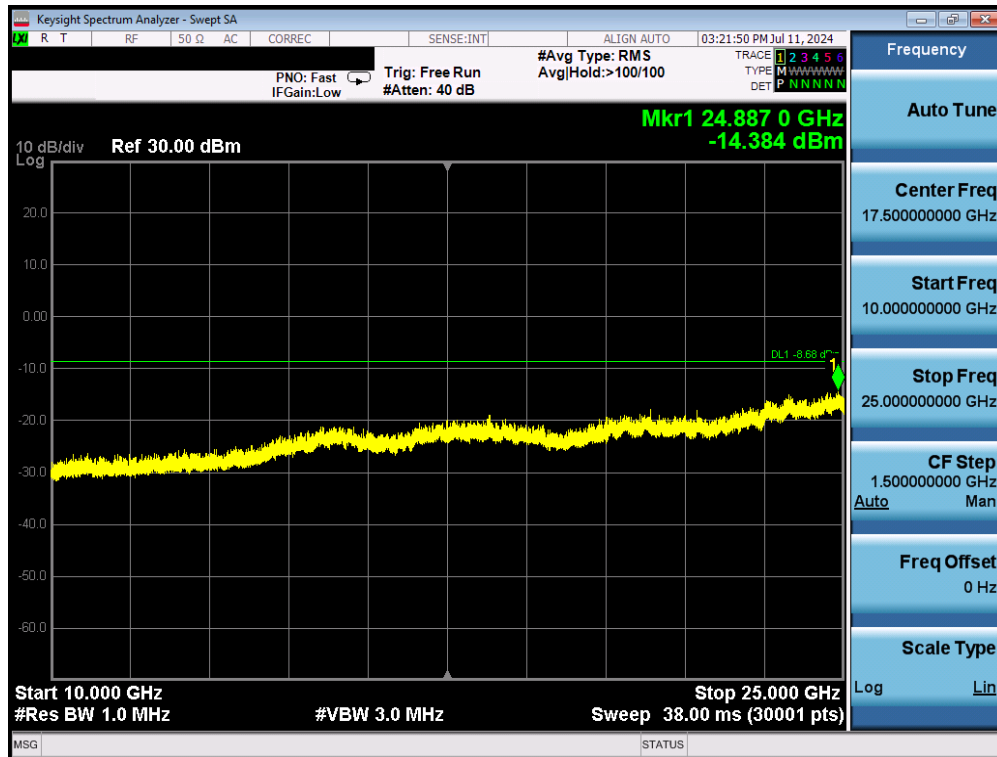
Plot 7-78. Conducted Spurious Plot Antenna WF7 (Bluetooth, GFSK, ePA – Ch. 78)

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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## Antenna WF2

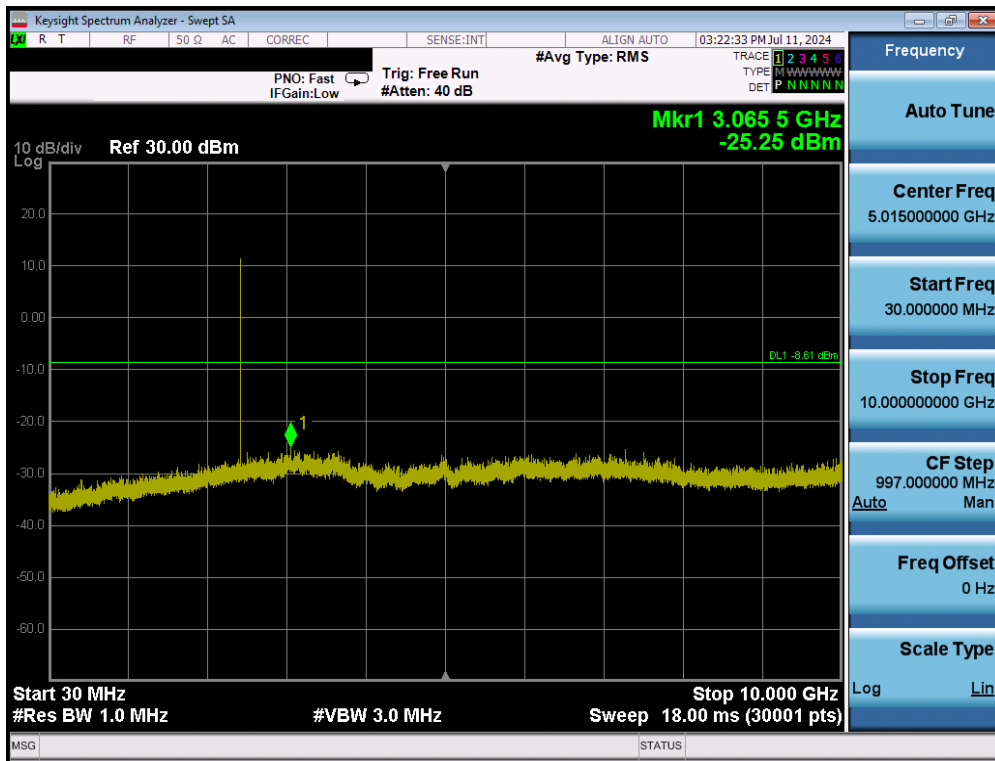


Plot 7-79. Conducted Spurious Plot Antenna WF2 (Bluetooth, GFSK, iPA – Ch. 0)

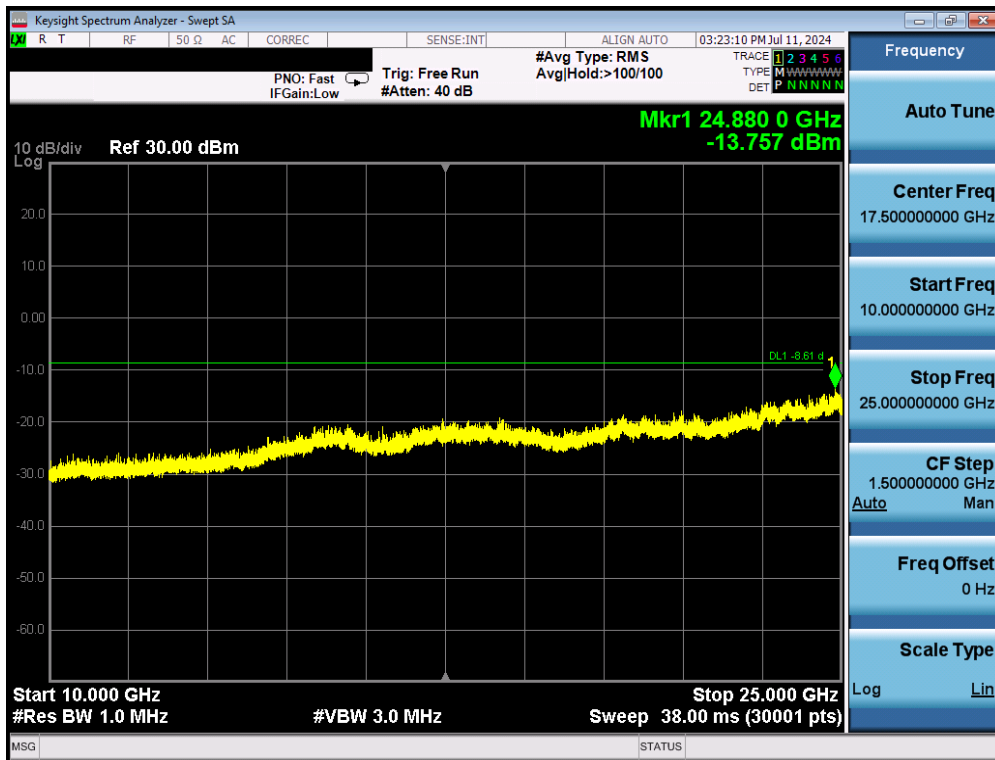


Plot 7-80. Conducted Spurious Plot Antenna WF2 (Bluetooth, GFSK, iPA – Ch. 0)

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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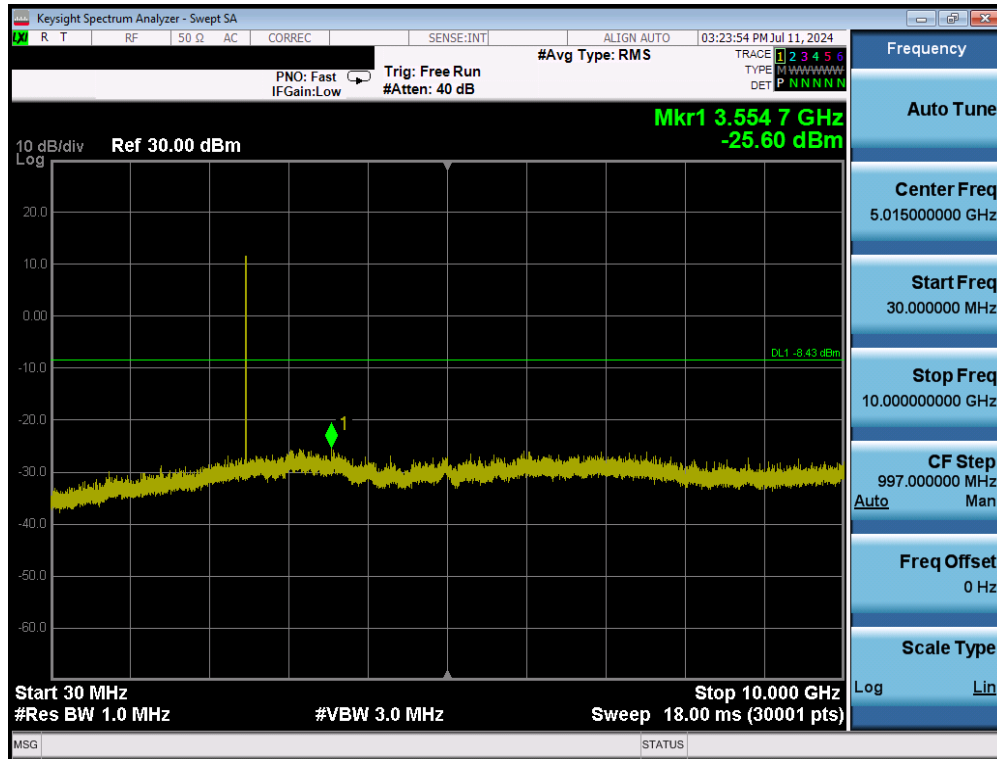


Plot 7-81. Conducted Spurious Plot Antenna WF2 (Bluetooth, GFSK, iPA – Ch. 39)

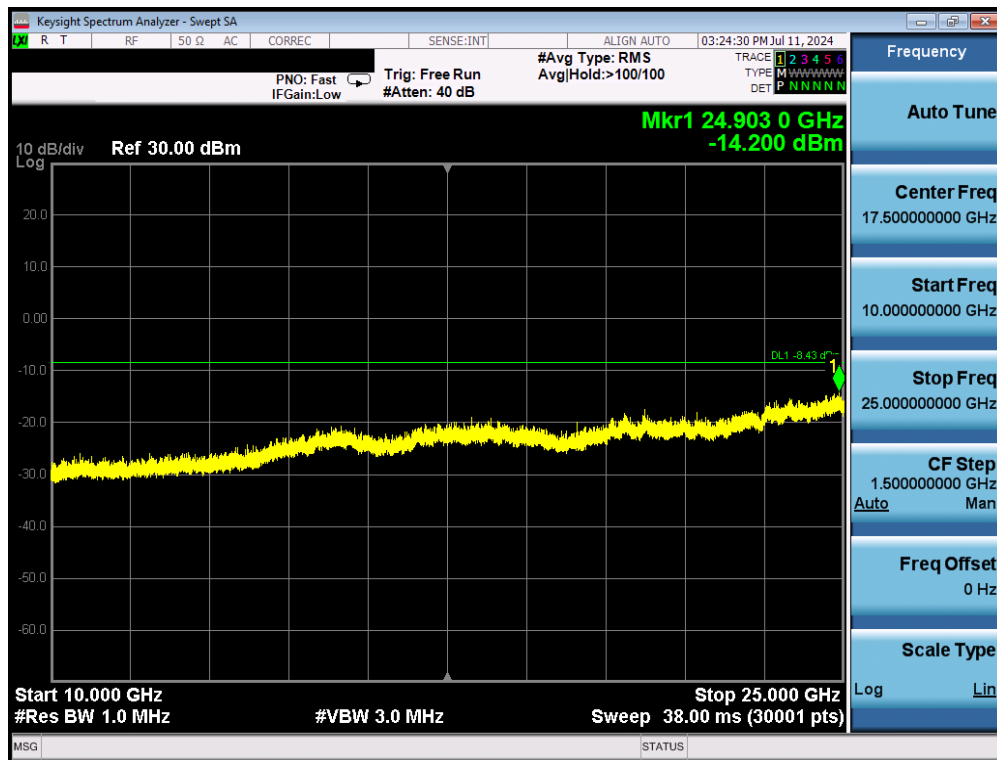


Plot 7-82. Conducted Spurious Plot Antenna WF2 (Bluetooth, GFSK, iPA Ch. 39)

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-83. Conducted Spurious Plot Antenna WF2 (Bluetooth, GFSK, iPA – Ch. 78)



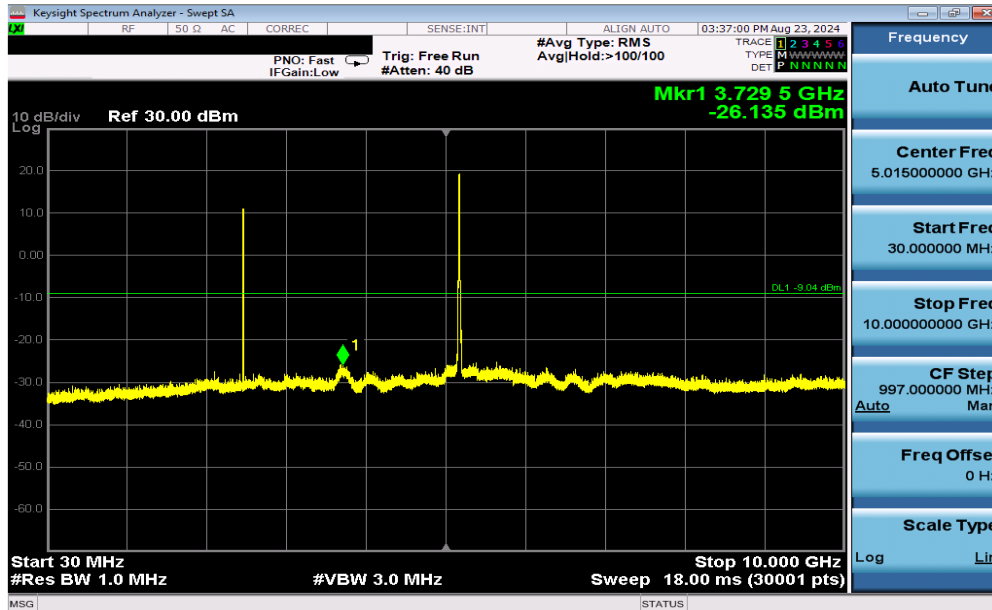
Plot 7-84. Conducted Spurious Plot Antenna WF2 (Bluetooth, GFSK, iPA – Ch. 78)

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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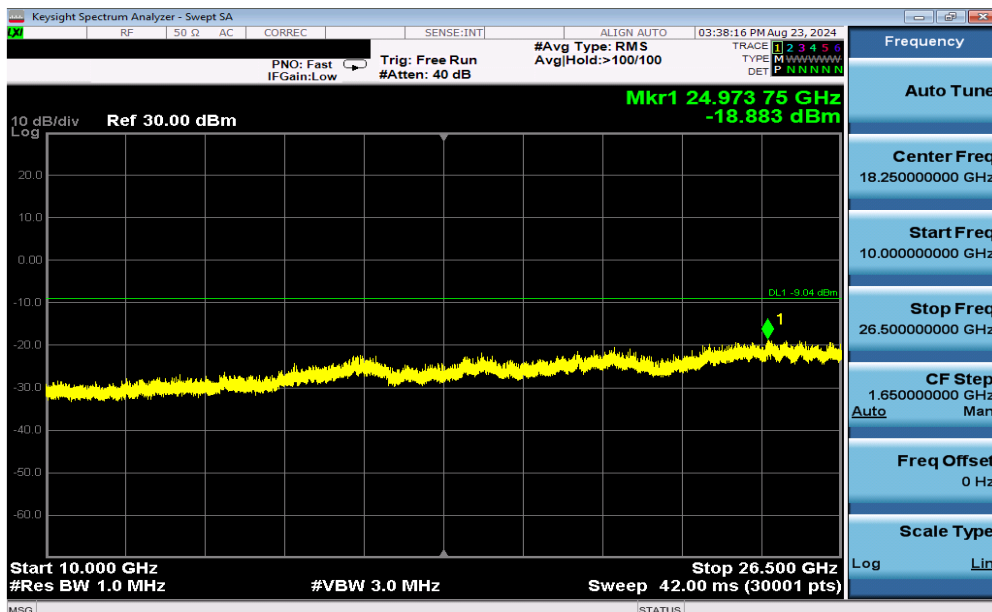
## Simultaneous Tx

Description	UNII	Bluetooth
Antenna	Antenna WF2	Antenna WF2
Channel	36	78
Operating Frequency (MHz)	5180	2480
Mode/Modulation	802.11n	GFSK iPa

Table 7-16. Worst Case Simultaneous Transmission Configuration



Plot 7-85. Conducted Simultaneous Tx Spurious Plot Antenna WF2 (Bluetooth + UNII)



Plot 7-86. Conducted Simultaneous Tx Spurious Plot Antenna WF2 (Bluetooth + UNII)

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## 7.9 Radiated Spurious Emissions – Above 1GHz

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

### Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at maximum power and at the appropriate frequencies. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

***All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 7 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-17 per Section 15.209 and RSS-Gen (8.9).***

Frequency	Field Strength [ $\mu\text{V/m}$ ]	Measured Distance [Meters]
Above 960.0 MHz	500	3

Table 7-17. Radiated Limits

### Test Procedure Used

ANSI C63.10-2020 – Section 6.6.4.3

### Test Settings

#### Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

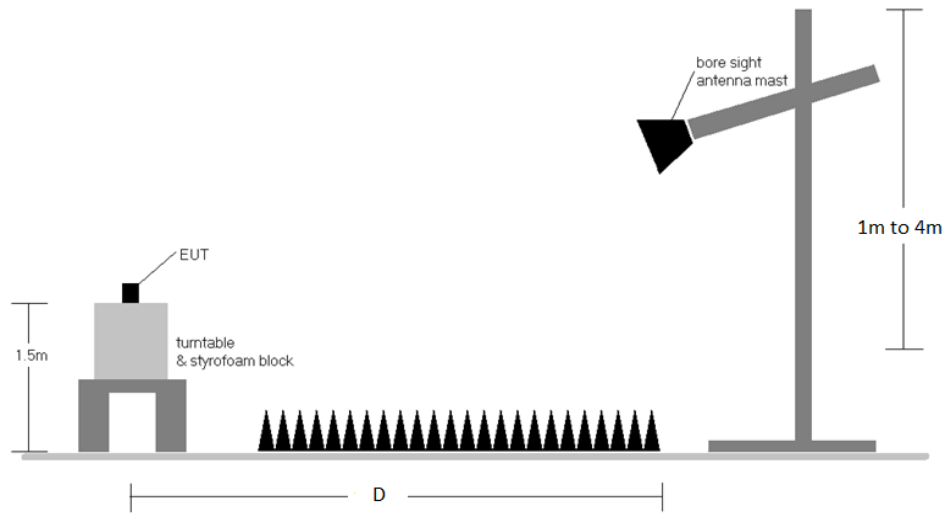
FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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## Test Setup

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



**Figure 7-8. Radiated Test Setup >1GHz**

## Test Notes

1. All emissions lying in restricted bands specified in §15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-17.
2. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
3. This unit was tested with its standard battery.
4. The spectrum is measured from 9kHz to the 10<sup>th</sup> harmonic and the worst-case emissions are reported.
5. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. Any emissions found to be within 20dB of the limit are fully investigated and the results are shown in this section.
6. D is the measurement test distance and emissions 1-18GHz were measured at a 3 meters test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
7. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
8. All supported modulation, antenna (including TxBF mode) and power schemes have been tested on the unit and only worst case configuration is reported.
9. Average emissions were not reported since the duty cycle correction factor was greater than 20dB.

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**Sample Calculation**

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

**Duty Cycle Correction Factor Calculation**

- Channel hop rate = 800 hops/second (AFH Mode)
- Adjusted channel hop rate for DH5 mode = 133.33 hops/second
- Time per channel hop =  $1 / 133.33 \text{ hops/second} = 7.50 \text{ ms}$
- Time to cycle through all channels =  $7.50 \times 20 \text{ channels} = 150 \text{ ms}$
- Number of times transmitter hits on one channel =  $100 \text{ ms} / 150 \text{ ms} = 1 \text{ time(s)}$
- Worst case dwell time = 7.5 ms

Duty cycle correction factor =  $20\log_{10}(7.5\text{ms}/100\text{ms}) = -22.5 \text{ dB}$

**Average Emission Calculation**

- Average Emission = Measured Peak Emissions  $_{[dB_{\mu V/m}]} - \text{Duty Cycle Correction Factor }_{[dB]}$

**Radiated Band Edge Measurement Offset**

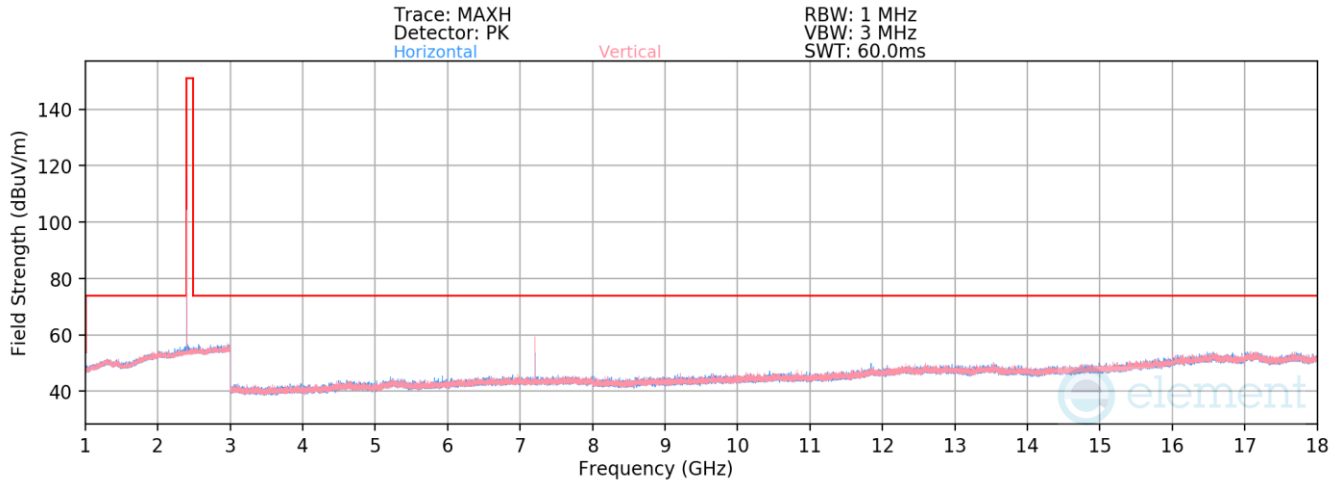
- The amplitude offset shown in the radiated restricted band edge plots in Section 7.9.6 was calculated using the formula:  
Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

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### 7.9.1 Radiated Spurious Emission Measurements (1 – 18GHz)

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

#### Antenna WF8



**Plot 7-87. Radiated Spurious Emissions above 1GHz Antenna WF8 (BT GFSK ePA – Ch. 0)**

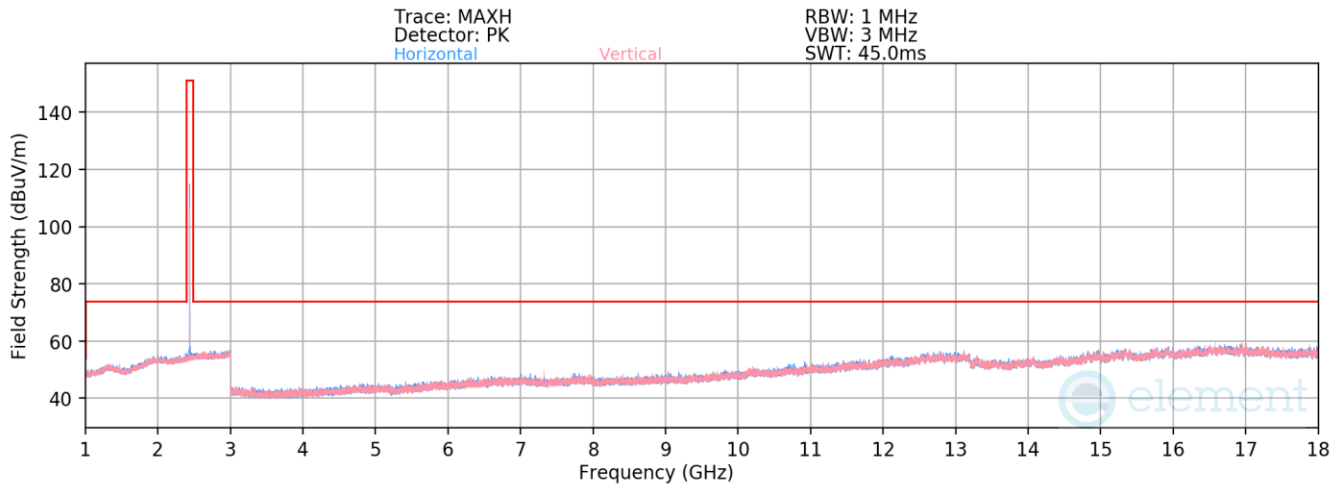
Bluetooth Mode: GFSK  
 Data Rate: 1Mbps  
 Power Scheme ePA  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2402MHz  
 Channel: 0

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	Peak	V	-	-	-65.91	2.82	43.91	73.98	-30.07
12010.00	Peak	V	-	-	-68.16	9.96	48.80	73.98	-25.18

**Table 7-18. Radiated Spurious Emissions Measurements Antenna WF8**

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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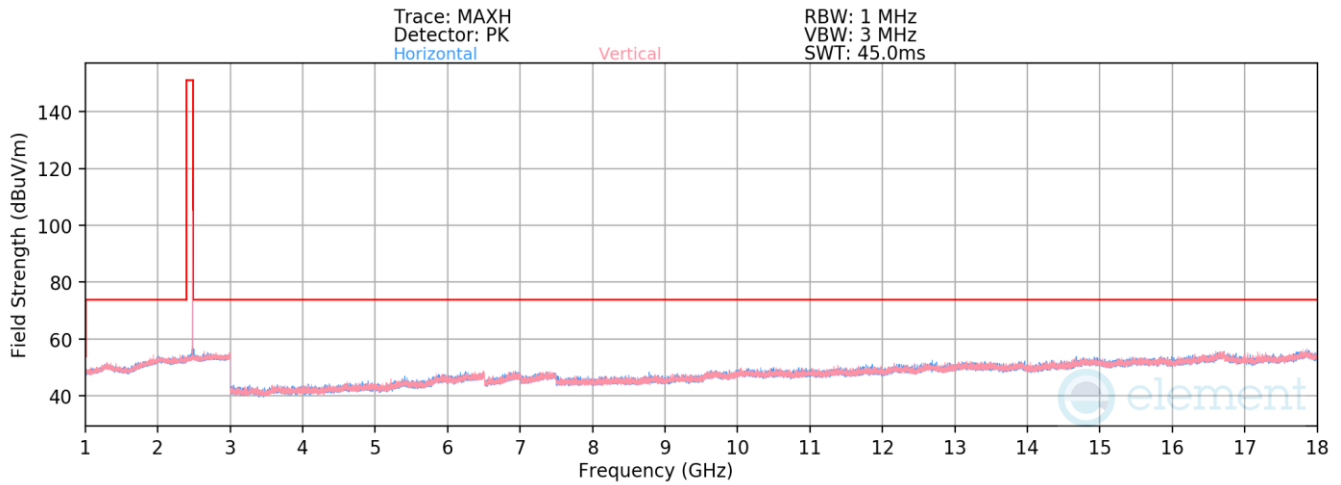
**Plot 7-88. Radiated Spurious Emissions above 1GHz Antenna WF8 (BT GFSK ePA – Ch. 39)**

Bluetooth Mode: GFSK  
 Data Rate: 1Mbps  
 Power Scheme ePA  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2441MHz  
 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]
4882.00	Peak	V	-	-	-69.02	7.37	45.35	73.98	-28.63
7323.00	Peak	V	101	208	-66.24	10.87	51.63	73.98	-22.35
12205.00	Peak	V	-	-	-72.34	18.64	53.30	73.98	-20.68

**Table 7-19. Radiated Spurious Emissions Measurements Antenna WF8**

FCC ID: BCGA2993 IC: 579C-A2993		<b>MEASUREMENT REPORT (CERTIFICATION)</b>	<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1C2405200017-07-R2.BCG	<b>Test Dates:</b> 5/20/2024 - 7/01/2024	<b>EUT Type:</b> Tablet Device	Page 79 of 108



**Plot 7-89. Radiated Spurious Emissions above 1GHz Antenna WF8 (BT GFSK ePA – Ch. 78)**

Bluetooth Mode: GFSK  
 Data Rate: 1Mbps  
 Power Scheme: ePA  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2480MHz  
 Channel: 78

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	Peak	V	-	-	-66.96	4.81	44.85	73.98	-29.13
7440.00	Peak	V	-	-	-67.96	9.43	48.47	73.98	-25.51
12400.00	Peak	V	-	-	-70.34	14.08	50.74	73.98	-23.24

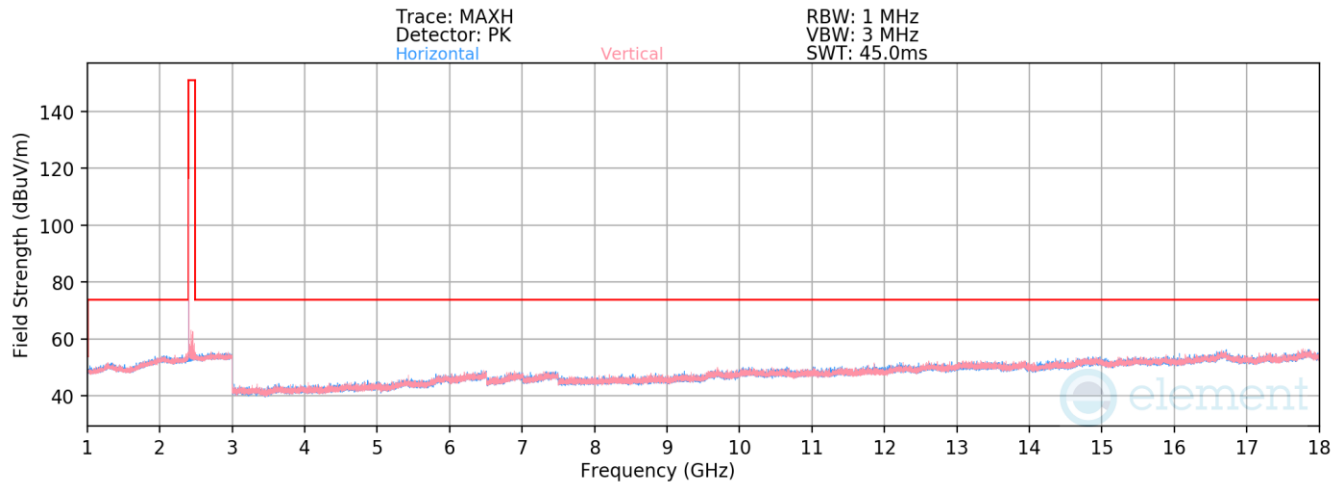
**Table 7-20. Radiated Spurious Emissions Measurements Antenna WF8**

FCC ID: BCGA2993 IC: 579C-A2993		<b>MEASUREMENT REPORT (CERTIFICATION)</b>	Approved by: Technical Manager
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## 7.9.2 Radiated Spurious Emission Measurements (1 – 18GHz)

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

### Antenna WF7



**Plot 7-90. Radiated Spurious Emissions above 1GHz Antenna WF7 (BT GFSK ePA – Ch. 0)**

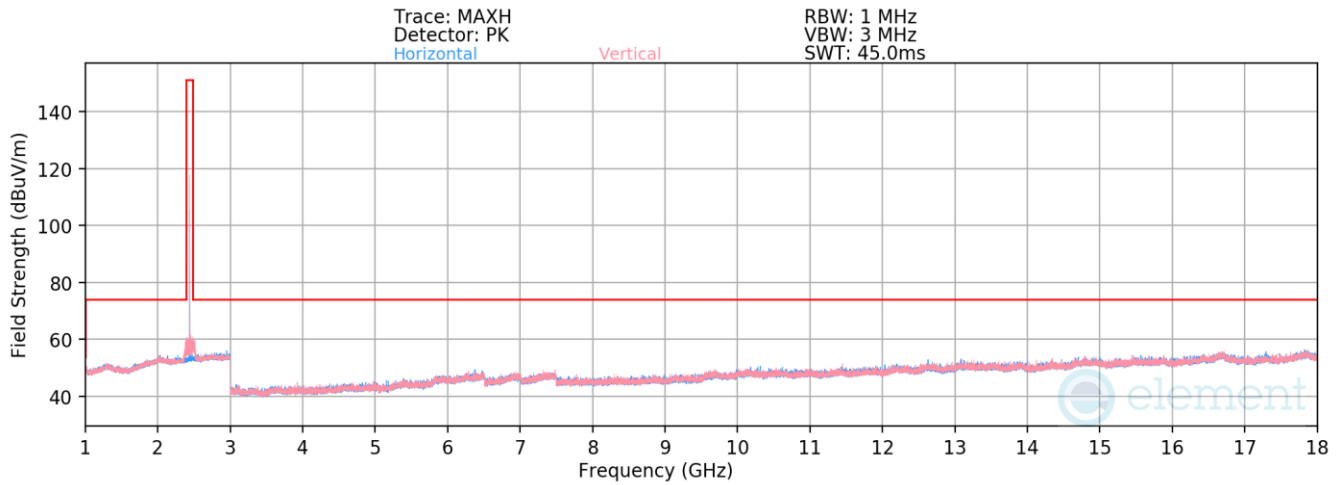
Bluetooth Mode:	<u>GFSK</u>
Data Rate:	<u>1Mbps</u>
Power Scheme	<u>ePA</u>
Distance of Measurements:	<u>3 Meters</u>
Operating Frequency:	<u>2402MHz</u>
Channel:	<u>0</u>

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]
4804.00	Peak	V	-	-	-66.17	4.35	45.18	73.98	-28.80
12010.00	Peak	V	-	-	-70.58	13.35	49.77	73.98	-24.21

**Table 7-21. Radiated Spurious Emissions Measurements Antenna WF7**

FCC ID: BCGA2993 IC: 579C-A2993		<b>MEASUREMENT REPORT (CERTIFICATION)</b>	<b>Approved by:</b> Technical Manager
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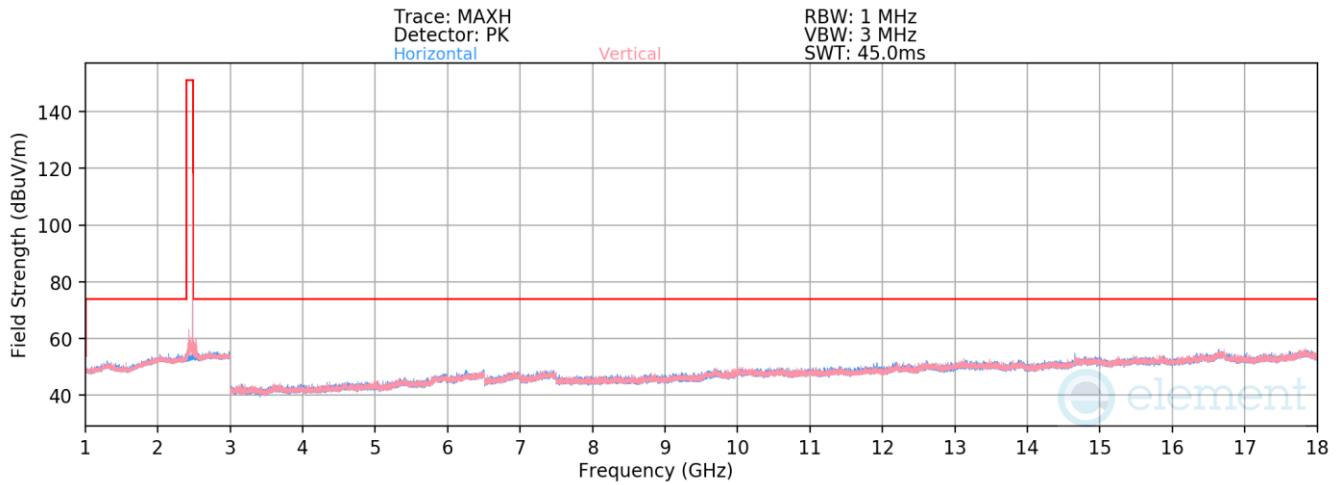
**Plot 7-91. Radiated Spurious Emissions above 1GHz Antenna WF7 (BT GFSK ePA – Ch. 39)**

Bluetooth Mode: GFSK  
 Data Rate: 1Mbps  
 Power Scheme: ePA  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2441MHz  
 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]
4882.00	Peak	V	-	-	-66.53	4.90	45.37	73.98	-28.61
7323.00	Peak	V	157	144	-67.62	9.55	48.93	73.98	-25.05
12205.00	Peak	V	-	-	-70.98	15.08	51.10	73.98	-22.88

**Table 7-22. Radiated Spurious Emissions Measurements Antenna WF7**

FCC ID: BCGA2993 IC: 579C-A2993		<b>MEASUREMENT REPORT (CERTIFICATION)</b>	<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1C2405200017-07-R2.BCG	<b>Test Dates:</b> 5/20/2024 - 7/01/2024	<b>EUT Type:</b> Tablet Device	Page 82 of 108



**Plot 7-92. Radiated Spurious Emissions above 1GHz Antenna WF7 (BT GFSK ePA – Ch. 78)**

Bluetooth Mode: GFSK  
 Data Rate: 1Mbps  
 Power Scheme: ePA  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2480MHz  
 Channel: 78

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	Peak	V	-	-	-67.04	4.94	44.90	73.98	-29.08
7440.00	Peak	V	275	238	-66.31	9.48	50.17	73.98	-23.81
12400.00	Peak	V	-	-	-70.51	14.08	50.57	73.98	-23.41

**Table 7-23. Radiated Spurious Emissions Measurements Antenna WF7**

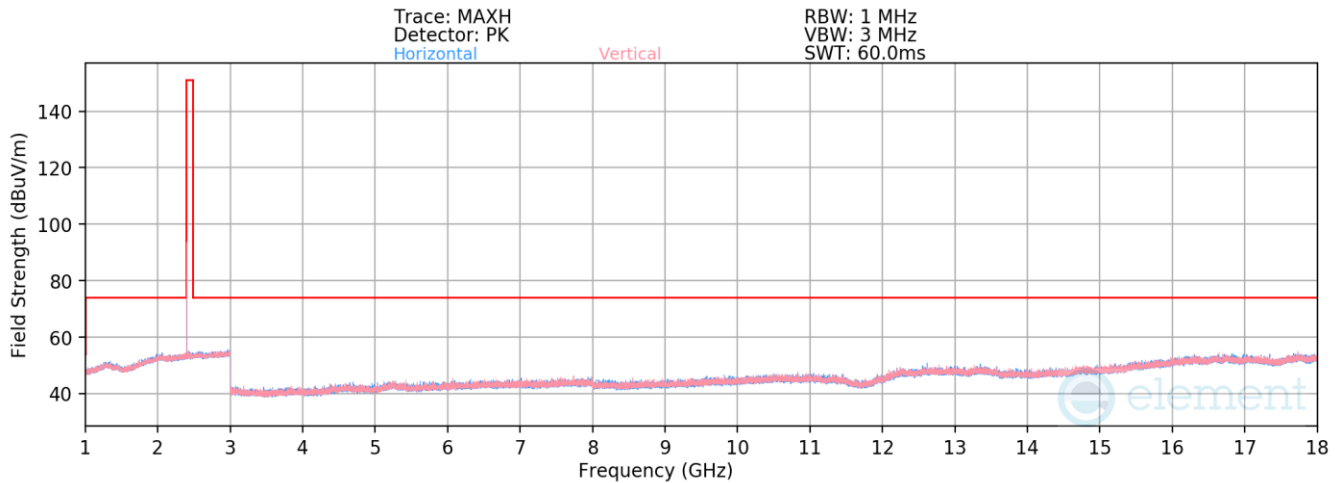
FCC ID: BCGA2993 IC: 579C-A2993		<b>MEASUREMENT REPORT (CERTIFICATION)</b>	<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1C2405200017-07-R2.BCG	<b>Test Dates:</b> 5/20/2024 - 7/01/2024	<b>EUT Type:</b> Tablet Device	Page 83 of 108



### 7.9.3 Radiated Spurious Emission Measurements (1 – 18GHz)

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

#### Antenna WF2



**Plot 7-93. Radiated Spurious Emissions above 1GHz Antenna WF2 (BT GFSK iPA – Ch. 0)**

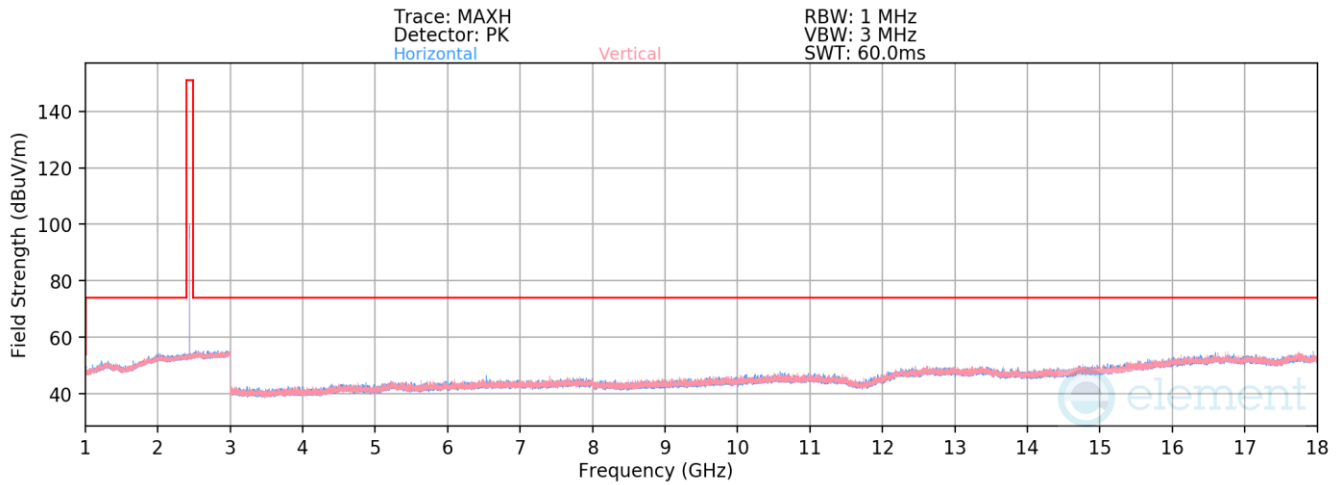
Bluetooth Mode:	<u>GFSK</u>
Data Rate:	<u>1Mbps</u>
Power Scheme	<u>iPA</u>
Distance of Measurements:	<u>3 Meters</u>
Operating Frequency:	<u>2402MHz</u>
Channel:	<u>0</u>

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]
4804.00	Peak	V	-	-	-65.68	2.87	44.19	73.98	-29.79
12010.00	Peak	V	-	-	-70.18	9.96	46.78	73.98	-27.20

**Table 7-24. Radiated Spurious Emissions Measurements Antenna WF2**

FCC ID: BCGA2993 IC: 579C-A2993		<b>MEASUREMENT REPORT (CERTIFICATION)</b>	<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1C2405200017-07-R2.BCG	<b>Test Dates:</b> 5/20/2024 - 7/01/2024	<b>EUT Type:</b> Tablet Device	Page 84 of 108

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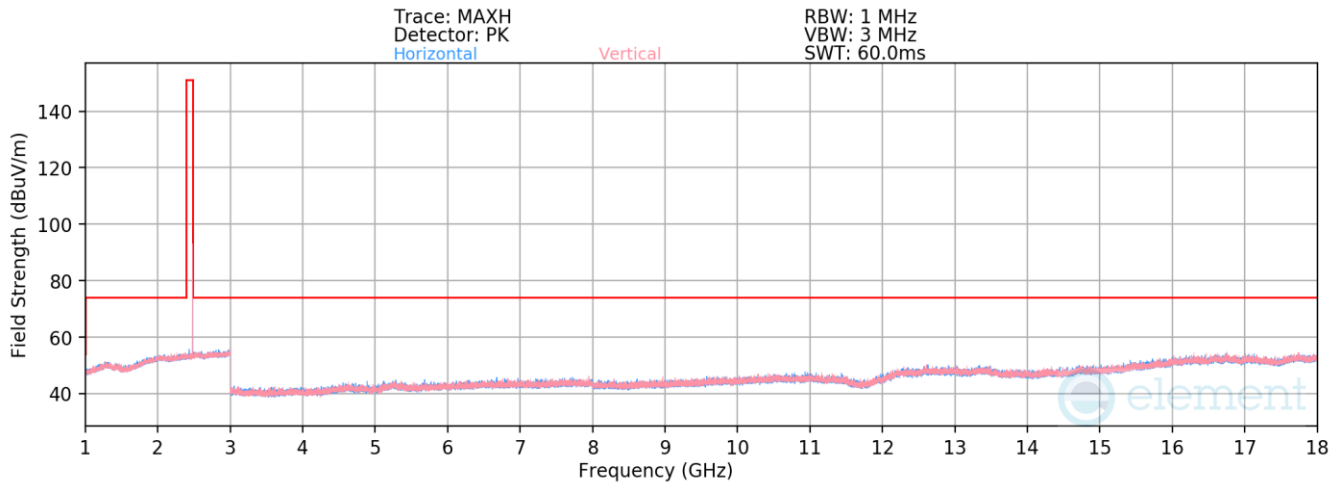
**Plot 7-94. Radiated Spurious Emissions above 1GHz Antenna WF2 (BT GFSK iPA – Ch. 39)**

Bluetooth Mode: GFSK  
 Data Rate: 1Mbps  
 Power Scheme: iPA  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2441MHz  
 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]
4882.00	Peak	V	-	-	-66.37	2.88	43.51	73.98	-30.47
7323.00	Peak	V	-	-	-66.61	5.06	45.45	73.98	-28.53
12205.00	Peak	V	-	-	-69.15	10.98	48.83	73.98	-25.15

**Table 7-25. Radiated Spurious Emissions Measurements Antenna WF2**

FCC ID: BCGA2993 IC: 579C-A2993		<b>MEASUREMENT REPORT (CERTIFICATION)</b>	<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1C2405200017-07-R2.BCG	<b>Test Dates:</b> 5/20/2024 - 7/01/2024	<b>EUT Type:</b> Tablet Device	Page 85 of 108



**Plot 7-95. Radiated Spurious Emissions above 1GHz Antenna WF2 (BT GFSK iPA – Ch. 78)**

Bluetooth Mode: GFSK  
 Data Rate: 1Mbps  
 Power Scheme: iPA  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2480MHz  
 Channel: 78

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	Peak	V	-	-	-66.13	2.71	43.58	73.98	-30.40
7440.00	Peak	V	-	-	-67.41	5.64	45.23	73.98	-28.75
12400.00	Peak	V	-	-	-68.13	10.77	49.64	73.98	-24.34

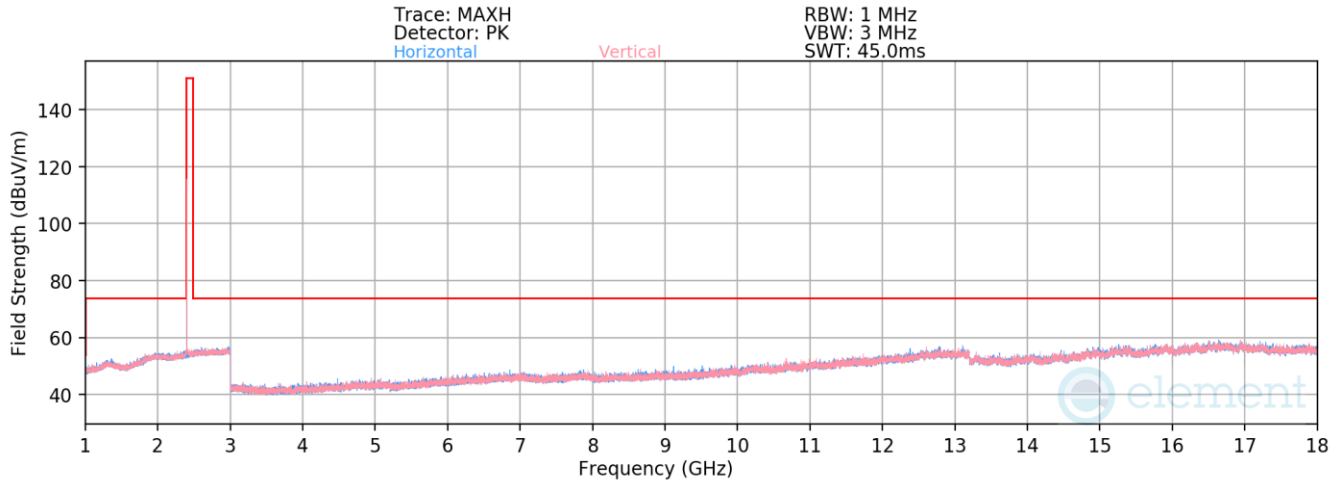
**Table 7-26. Radiated Spurious Emissions Measurements Antenna WF2**

FCC ID: BCGA2993 IC: 579C-A2993		<b>MEASUREMENT REPORT (CERTIFICATION)</b>	<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1C2405200017-07-R2.BCG	<b>Test Dates:</b> 5/20/2024 - 7/01/2024	<b>EUT Type:</b> Tablet Device	Page 86 of 108

### 7.9.4 Radiated Spurious Emission Measurements (Above 1GHz)

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

#### TxBF



**Plot 7-96. Radiated Spurious Emissions above 1GHz TxBF (BT GFSK ePA – Ch. 0)**

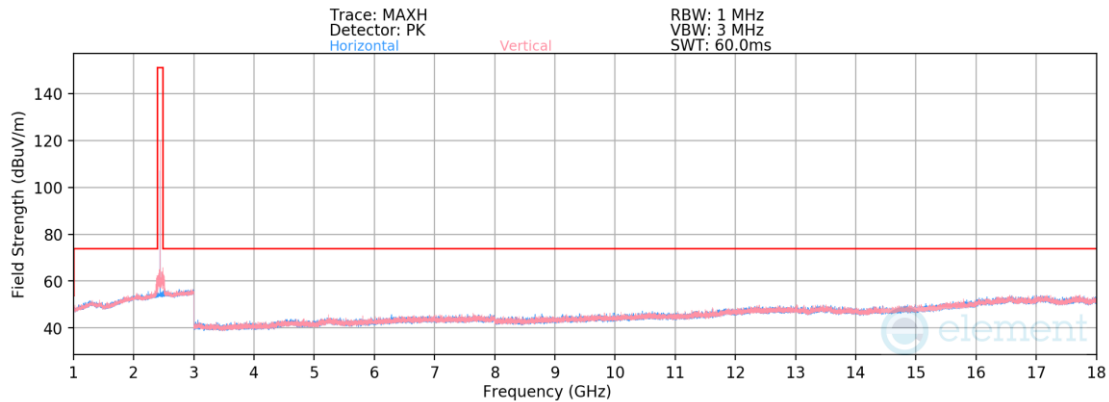
Bluetooth Mode:	<u>GFSK</u>
Data Rate:	<u>1Mbps</u>
Power Scheme	<u>ePA</u>
Distance of Measurements:	<u>3 Meters</u>
Operating Frequency:	<u>2402MHz</u>
Channel:	<u>0</u>

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]
4804.00	Peak	H	-	-	-68.97	7.63	45.66	73.98	-28.32
12010.00	Peak	H	-	-	-72.20	18.62	53.42	73.98	-20.56

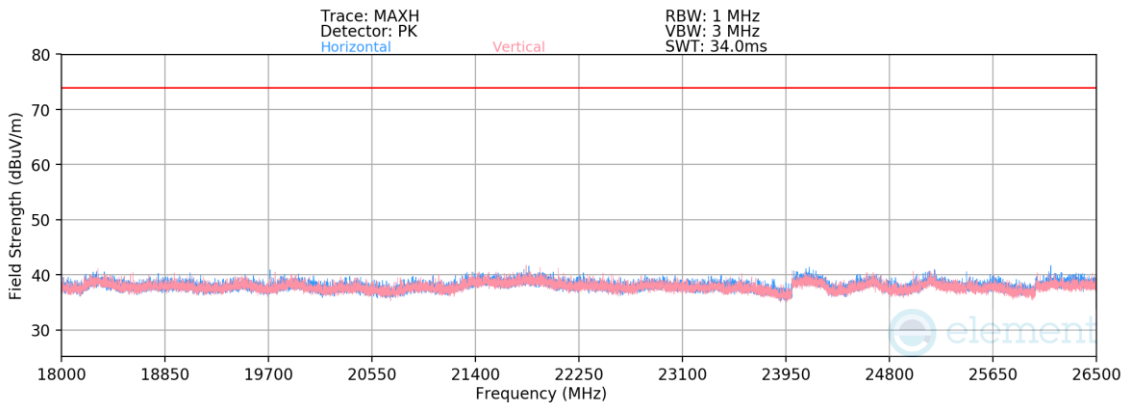
**Table 7-27. Radiated Spurious Emissions Measurements TxBF**

FCC ID: BCGA2993 IC: 579C-A2993		<b>MEASUREMENT REPORT (CERTIFICATION)</b>	<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1C2405200017-07-R2.BCG	<b>Test Dates:</b> 5/20/2024 - 7/01/2024	<b>EUT Type:</b> Tablet Device	Page 87 of 108

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**Plot 7-97. Radiated Spurious Emissions above 1GHz TxBF (BT GFSK ePA – Ch. 39)**



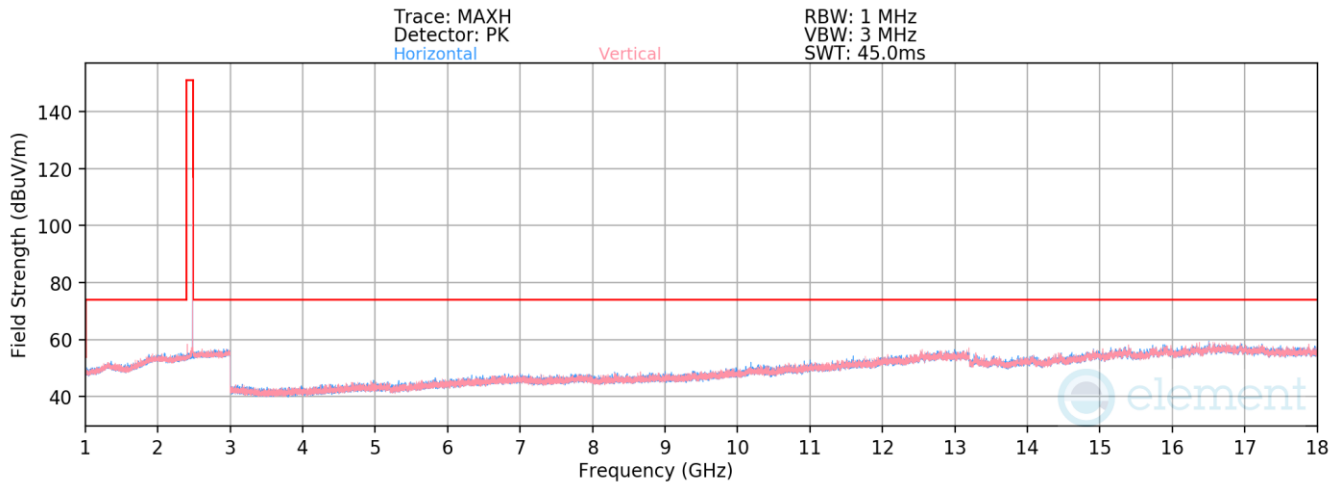
**Plot 7-98. Radiated Spurious Emissions above 18GHz TxBF (BT GFSK ePA – Ch. 39)**

Bluetooth Mode: GFSK  
 Data Rate: 1Mbps  
 Power Scheme: ePA  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2441MHz  
 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]
4882.00	Peak	H	-	-	-65.69	2.74	44.05	73.98	-29.93
7323.00	Peak	H	-	-	-66.00	5.06	46.06	73.98	-27.92
12205.00	Peak	H	-	-	-68.26	10.91	49.65	73.98	-24.33

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

FCC ID: BCGA2993 IC: 579C-A2993		<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Technical Manager
Test Report S/N: 1C2405200017-07-R2.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device		Page 88 of 108



**Plot 7-99. Radiated Spurious Emissions above 1GHz TxBF (BT GFSK ePA – Ch. 78)**

Bluetooth Mode: GFSK  
 Data Rate: 1Mbps  
 Power Scheme: ePA  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2480MHz  
 Channel: 78

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	Peak	H	-	-	-69.31	7.06	44.75	73.98	-29.23
7440.00	Peak	H	-	-	-71.31	10.98	46.67	73.98	-27.31
12400.00	Peak	H	-	-	-73.27	19.40	53.13	73.98	-20.85

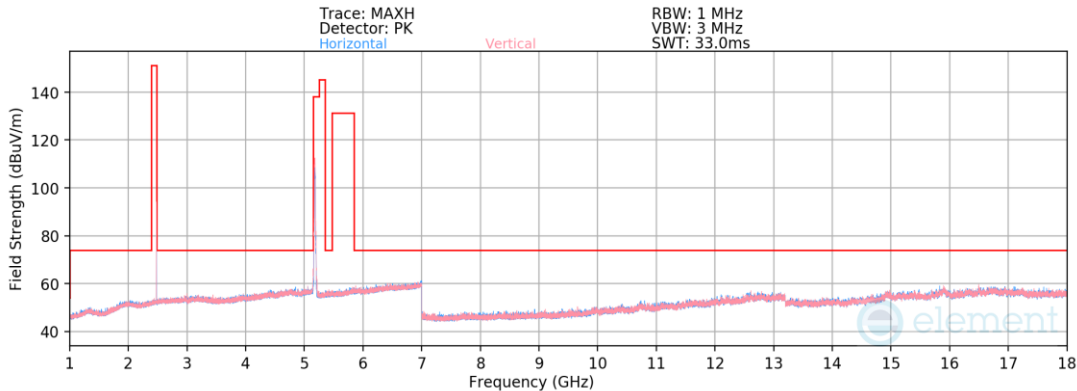
**Table 7-29. Radiated Spurious Emissions Measurements TxBF**

FCC ID: BCGA2993 IC: 579C-A2993		<b>MEASUREMENT REPORT (CERTIFICATION)</b>	<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1C2405200017-07-R2.BCG	<b>Test Dates:</b> 5/20/2024 - 7/01/2024	<b>EUT Type:</b> Tablet Device	Page 89 of 108

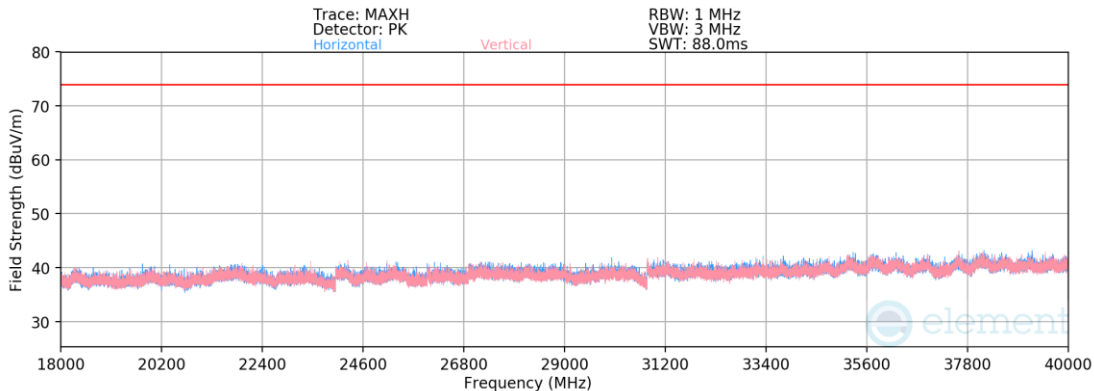
### 7.9.5 Simultaneous Tx Radiated Spurious Emission Measurements (Above 1GHz) §15.205 §15.209 §15.247 (d); RSS-Gen [8.9]

Description	UNII	Bluetooth
Antenna	Antenna WF2	Antenna WF2
Channel	36	78
Operating Frequency (MHz)	5180	2480
Mode/Modulation	802.11n	GFSK iPa

**Table 7-30. Worst Case Simultaneous Transmission Configuration**



**Plot 7-100. Radiated Spurious Emissions Simultaneous Transmission (1-18GHz)**



**Plot 7-101. Radiated Spurious Emissions Simultaneous Transmission (Above 18GHz)**

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	Peak	H	-	-	-68.62	16.88	55.26	73.98	-18.72
7440.00	Peak	H	-	-	-70.10	11.45	48.35	73.98	-25.63
12400.00	Peak	H	-	-	-73.03	18.90	52.87	73.98	-21.11

**Table 7-31. Bluetooth Harmonics Emissions Measurements in Simultaneous Transmission Mode**

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]
10360.00	Peak	H	-	-	-71.95	15.31	50.36	68.23	-17.87
* 15540.00	Avg	H	-	-	-84.98	23.06	45.08	53.98	-8.90
* 15540.00	Peak	H	-	-	-73.69	23.06	56.37	73.98	-17.61

**Table 7-32. UNII Harmonics Emissions Measurements in Simultaneous Transmission Mode**

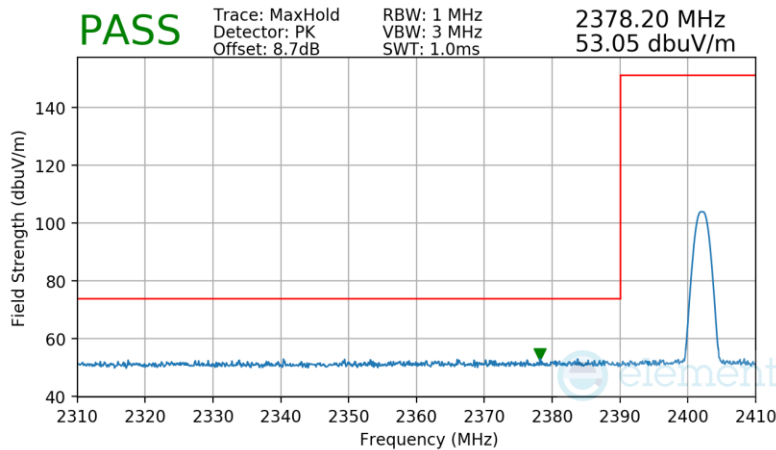
FCC ID: BCGA2993 IC: 579C-A2993		<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Technical Manager
Test Report S/N: 1C2405200017-07-R2.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device		Page 90 of 108

### 7.9.6 Radiated Restricted Band Edge Measurements

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

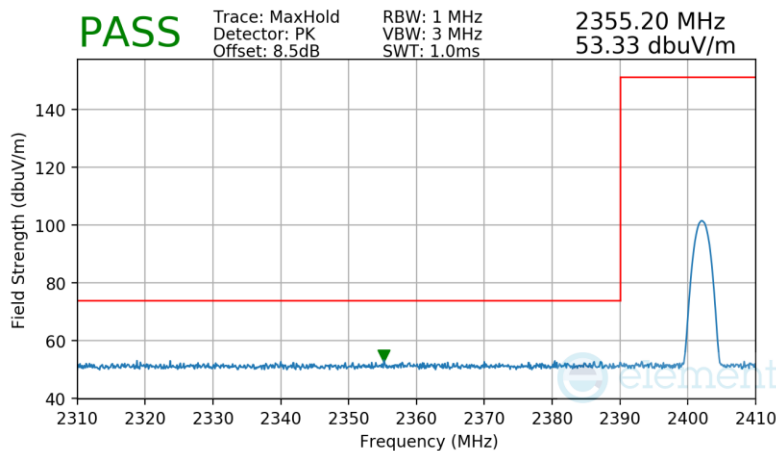
#### Antenna WF8

Bluetooth Mode:	<u>GFSK</u>
Power Scheme:	<u>ePA</u>
Measurement Distance:	<u>3 Meters</u>
Operating Frequency:	<u>2402MHz</u>
Channel:	<u>0</u>



Plot 7-102. Radiated Restricted Lower Band Edge Measurement Antenna WF8

Bluetooth Mode:	<u>8DPSK</u>
Power Scheme:	<u>ePA</u>
Measurement Distance:	<u>3 Meters</u>
Operating Frequency:	<u>2402MHz</u>
Channel:	<u>0</u>



Plot 7-103. Radiated Restricted Lower Band Edge Measurement Antenna WF8

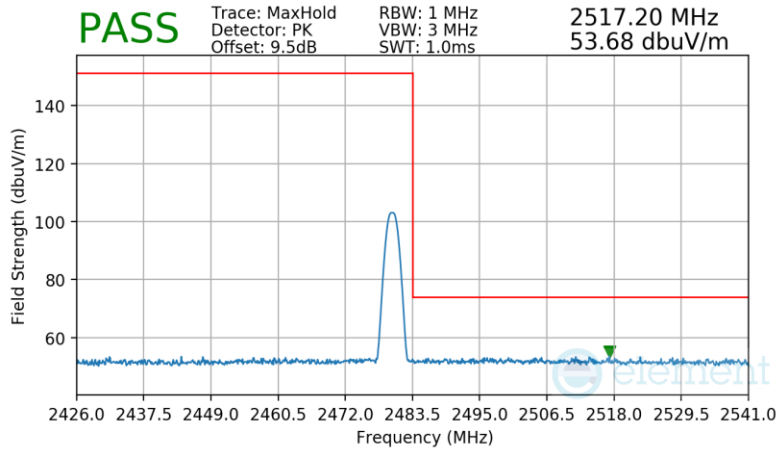
FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-07-R2.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 91 of 108



## Radiated Restricted Band Edge Measurements

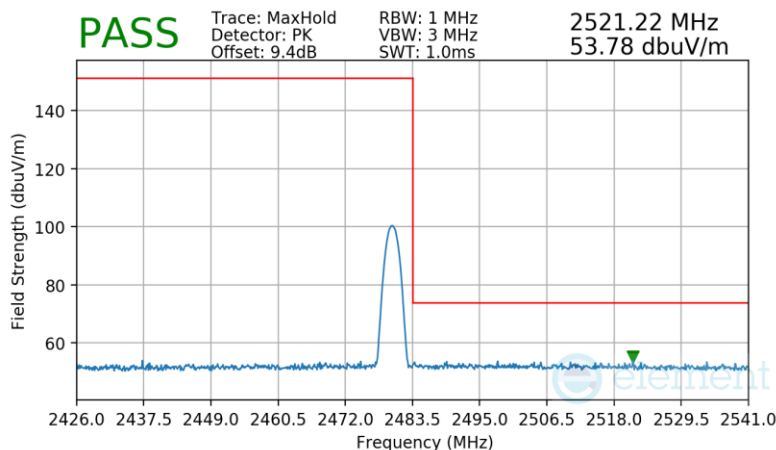
§15.205 §15.209 §15.247 (d); RSS-Gen [8.9]

Bluetooth Mode:	GFSK
Power Scheme:	ePA
Measurement Distance:	3 Meters
Operating Frequency:	2480MHz
Channel:	78



**Plot 7-104. Radiated Restricted Upper Band Edge Measurement Antenna WF8**

Bluetooth Mode:	8DPSK
Power Scheme:	ePA
Measurement Distance:	3 Meters
Operating Frequency:	2480MHz
Channel:	78



**Plot 7-105. Radiated Restricted Upper Band Edge Measurement Antenna WF8**

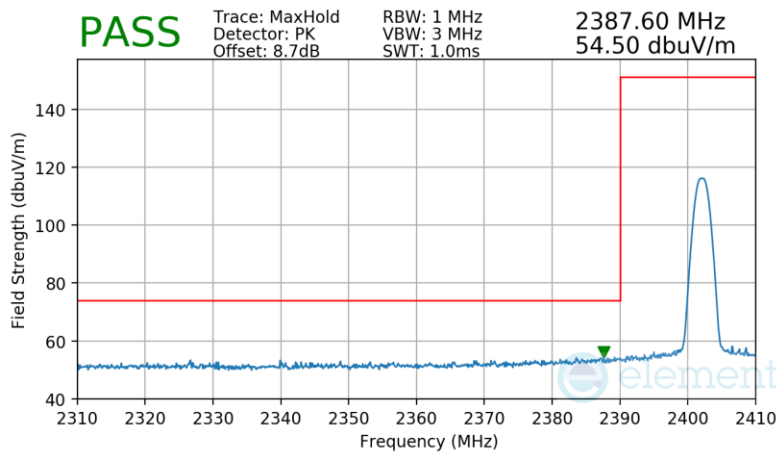
FCC ID: BCGA2993 IC: 579C-A2993		<b>MEASUREMENT REPORT (CERTIFICATION)</b>	Approved by: Technical Manager
Test Report S/N: 1C2405200017-07-R2.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 92 of 108

## Radiated Restricted Band Edge Measurements

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

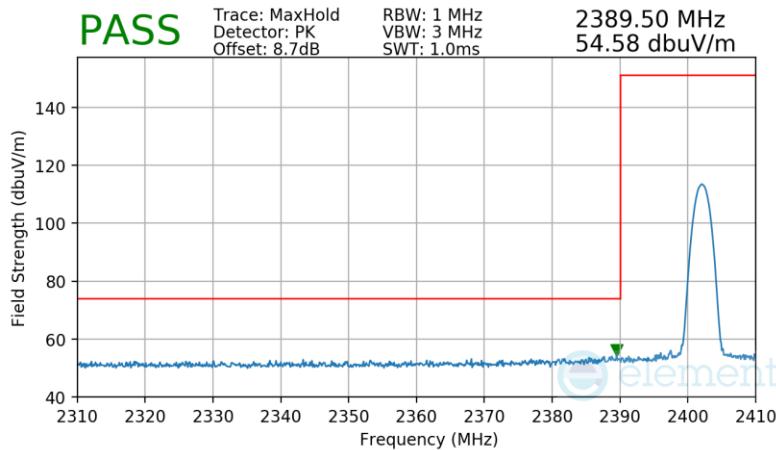
### Antenna WF7

Bluetooth Mode:	<u>GFSK</u>
Power Scheme:	<u>ePA</u>
Measurement Distance:	<u>3 Meters</u>
Operating Frequency:	<u>2402MHz</u>
Channel:	<u>0</u>



**Plot 7-106. Radiated Restricted Lower Band Edge Measurement Antenna WF7**

Bluetooth Mode:	<u>8DPSK</u>
Power Scheme:	<u>ePA</u>
Measurement Distance:	<u>3 Meters</u>
Operating Frequency:	<u>2402MHz</u>
Channel:	<u>0</u>



**Plot 7-107. Radiated Restricted Lower Band Edge Measurement Antenna WF7**

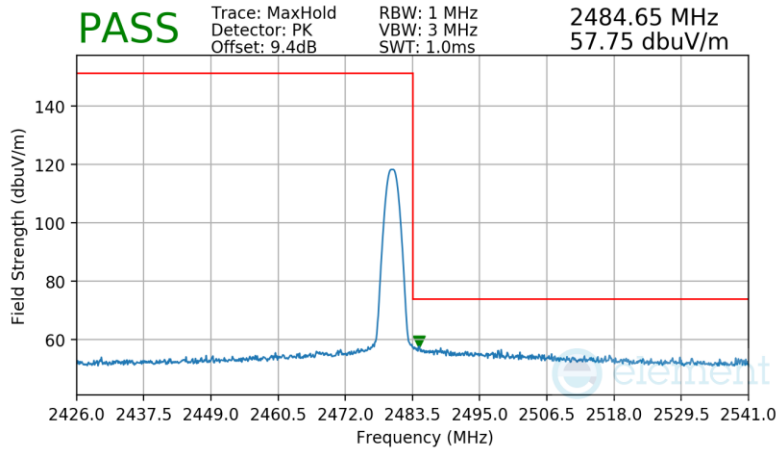
FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-07-R2.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 93 of 108

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## Radiated Restricted Band Edge Measurements

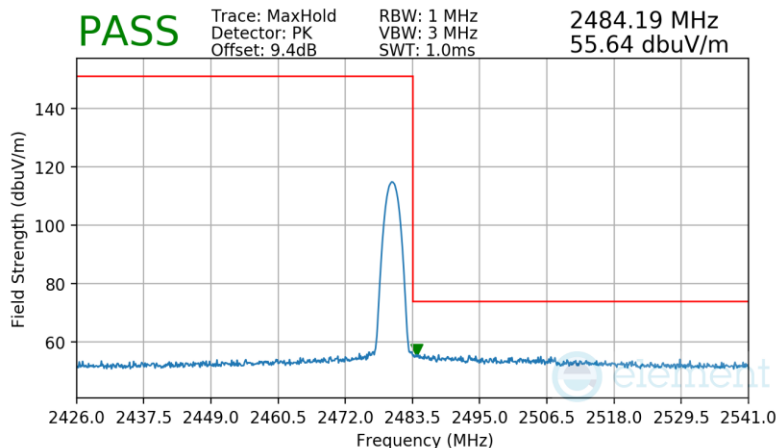
§15.205 §15.209 §15.247 (d); RSS-Gen [8.9]

Bluetooth Mode:	<u>GFSK</u>
Power Scheme:	<u>ePA</u>
Measurement Distance:	<u>3 Meters</u>
Operating Frequency:	<u>2480MHz</u>
Channel:	<u>78</u>



**Plot 7-108. Radiated Restricted Upper Band Edge Measurement Antenna WF7**

Bluetooth Mode:	<u>8DPSK</u>
Power Scheme:	<u>ePA</u>
Measurement Distance:	<u>3 Meters</u>
Operating Frequency:	<u>2480MHz</u>
Channel:	<u>78</u>



**Plot 7-109. Radiated Restricted Upper Band Edge Measurement Antenna WF7**

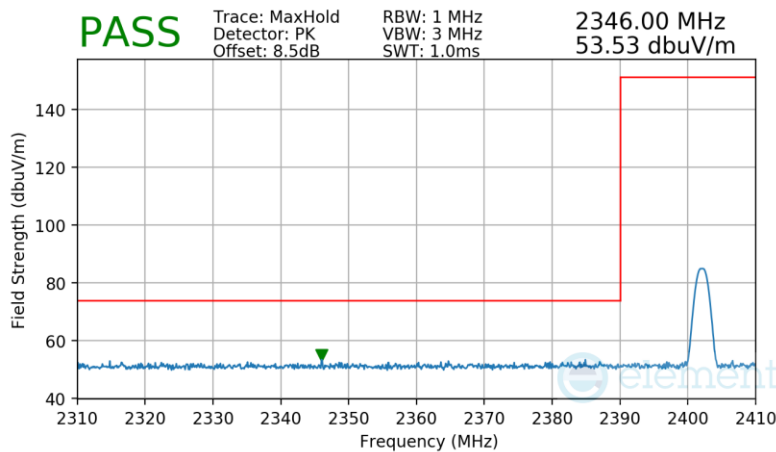
FCC ID: BCGA2993 IC: 579C-A2993		<b>MEASUREMENT REPORT (CERTIFICATION)</b>	Approved by: Technical Manager
Test Report S/N: 1C2405200017-07-R2.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 94 of 108

## Radiated Restricted Band Edge Measurements

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

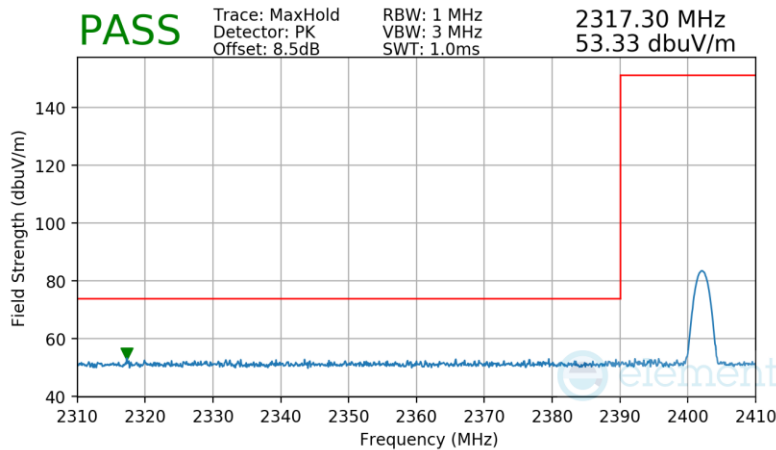
### Antenna WF2

Bluetooth Mode: GFSK  
 Power Scheme: iPA  
 Measurement Distance: 3 Meters  
 Operating Frequency: 2402MHz  
 Channel: 0



**Plot 7-110. Radiated Restricted Lower Band Edge Measurement Antenna WF2**

Bluetooth Mode: 8DPSK  
 Power Scheme: iPA  
 Measurement Distance: 3 Meters  
 Operating Frequency: 2402MHz  
 Channel: 0



**Plot 7-111. Radiated Restricted Lower Band Edge Measurement Antenna WF2**

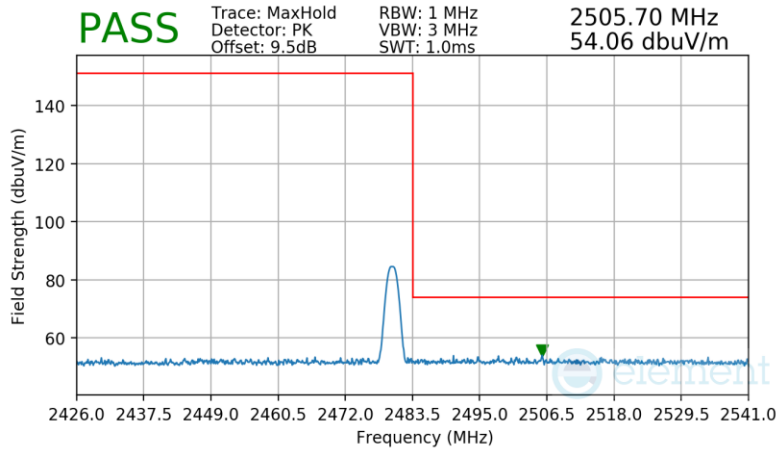
FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-07-R2.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 95 of 108

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## Radiated Restricted Band Edge Measurements

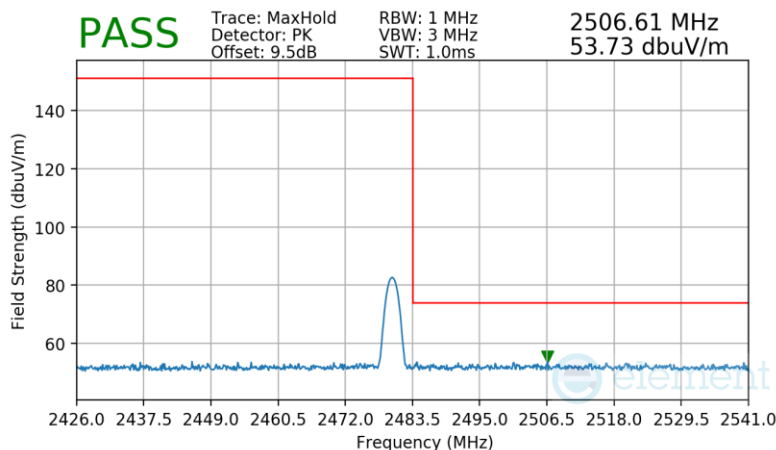
§15.205 §15.209 §15.247 (d); RSS-Gen [8.9]

Bluetooth Mode:	GFSK
Power Scheme:	iPA
Measurement Distance:	3 Meters
Operating Frequency:	2480MHz
Channel:	78



**Plot 7-112. Radiated Restricted Upper Band Edge Measurement Antenna WF2**

Bluetooth Mode:	8DPSK
Power Scheme:	iPA
Measurement Distance:	3 Meters
Operating Frequency:	2480MHz
Channel:	78



**Plot 7-113. Radiated Restricted Upper Band Edge Measurement Antenna WF2**

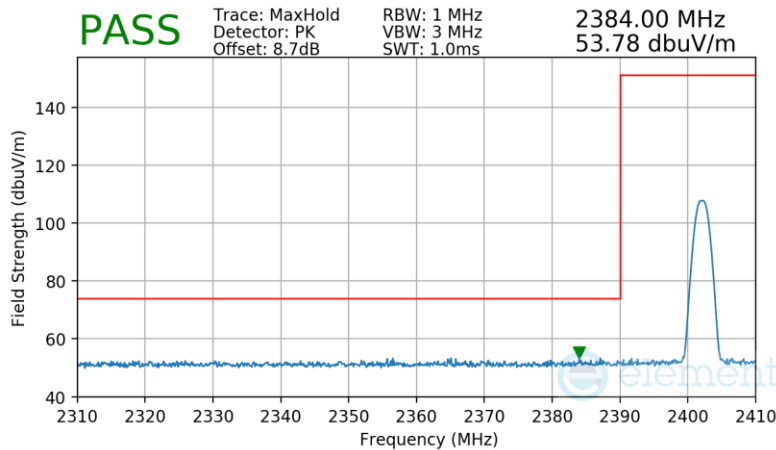
FCC ID: BCGA2993 IC: 579C-A2993		<b>MEASUREMENT REPORT (CERTIFICATION)</b>	<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1C2405200017-07-R2.BCG	<b>Test Dates:</b> 5/20/2024 - 7/01/2024	<b>EUT Type:</b> Tablet Device	Page 96 of 108

## Radiated Restricted Band Edge Measurements

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

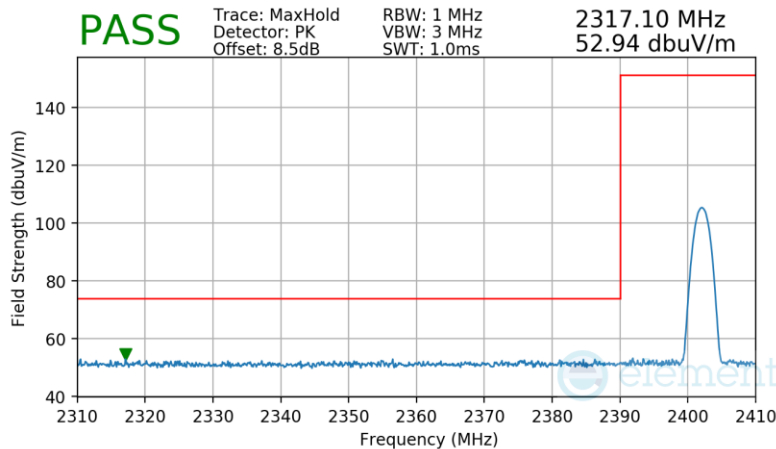
### TxBF

Bluetooth Mode: GFSK  
 Power Scheme: ePA  
 Measurement Distance: 3 Meters  
 Operating Frequency: 2402MHz  
 Channel: 0



**Plot 7-114. Radiated Restricted Lower Band Edge Measurement TxBF**

Bluetooth Mode: 8DPSK  
 Power Scheme: ePA  
 Measurement Distance: 3 Meters  
 Operating Frequency: 2402MHz  
 Channel: 0



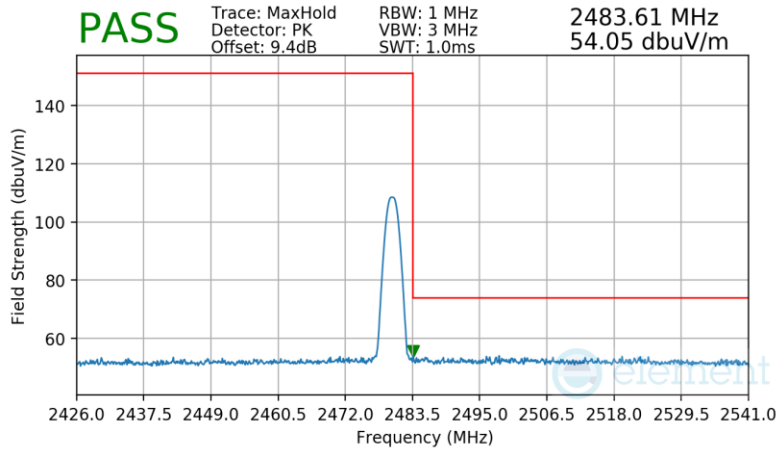
**Plot 7-115. Radiated Restricted Lower Band Edge Measurement TxBF**

FCC ID: BCGA2993 IC: 579C-A2993		<b>MEASUREMENT REPORT (CERTIFICATION)</b>	Approved by: Technical Manager
Test Report S/N: 1C2405200017-07-R2.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 97 of 108

## Radiated Restricted Band Edge Measurements

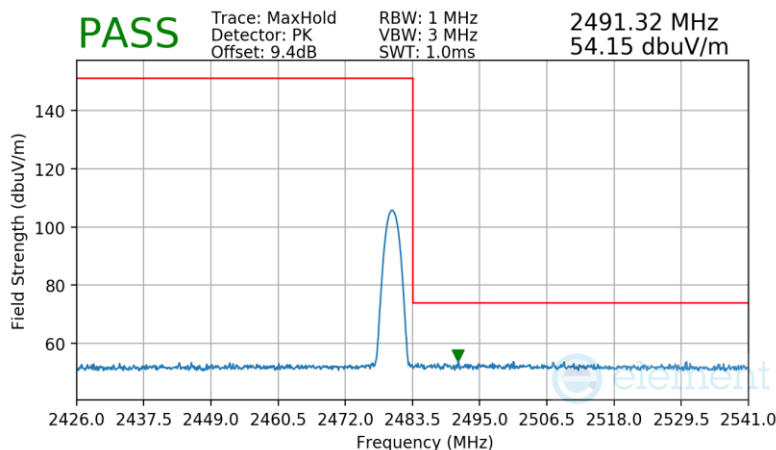
§15.205 §15.209 §15.247 (d); RSS-Gen [8.9]

Bluetooth Mode:	<u>GFSK</u>
Power Scheme:	<u>ePA</u>
Measurement Distance:	<u>3 Meters</u>
Operating Frequency:	<u>2480MHz</u>
Channel:	<u>78</u>



**Plot 7-116. Radiated Restricted Upper Band Edge Measurement TxBF**

Bluetooth Mode:	<u>8DPSK</u>
Power Scheme:	<u>ePA</u>
Measurement Distance:	<u>3 Meters</u>
Operating Frequency:	<u>2480MHz</u>
Channel:	<u>78</u>



**Plot 7-117. Radiated Restricted Upper Band Edge Measurement TxBF**

FCC ID: BCGA2993 IC: 579C-A2993		<b>MEASUREMENT REPORT (CERTIFICATION)</b>	<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1C2405200017-07-R2.BCG	<b>Test Dates:</b> 5/20/2024 - 7/01/2024	<b>EUT Type:</b> Tablet Device	Page 98 of 108

## 7.10 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 7-33 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 7-33. 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

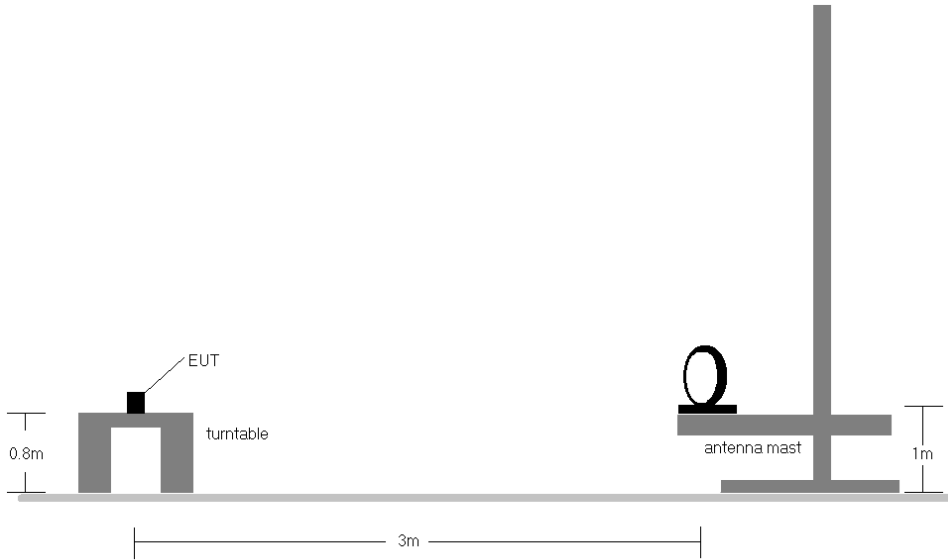
FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-07-R2.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 99 of 108

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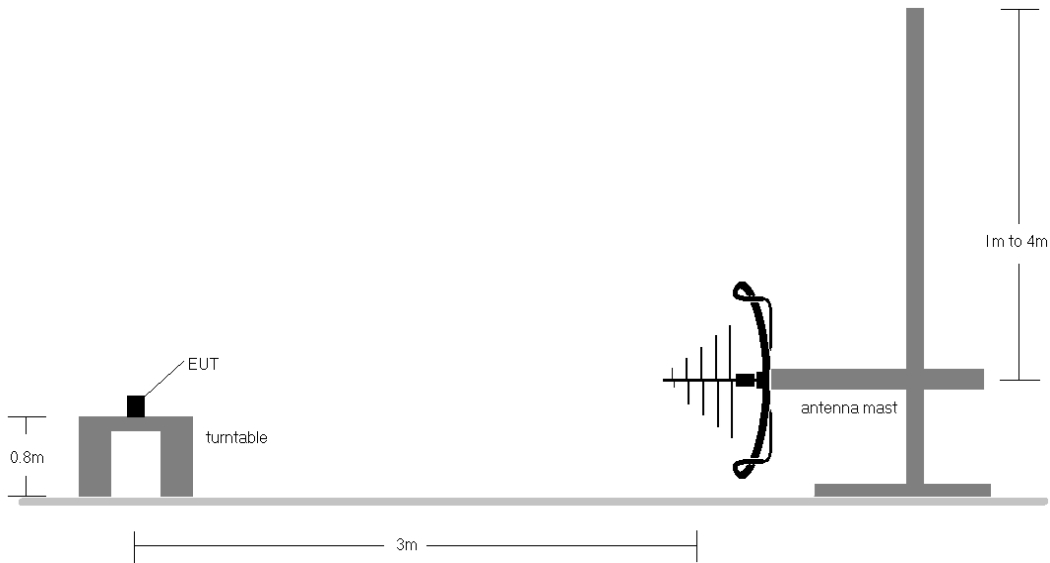


**Test Setup**

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



**Figure 7-9. Radiated Test Setup < 30MHz**



**Figure 7-10. Radiated Test Setup < 1GHz**

<b>FCC ID:</b> BCGA2993 <b>IC:</b> 579C-A2993		<b>MEASUREMENT REPORT</b> <b>(CERTIFICATION)</b>	<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1C2405200017-07-R2.BCG	<b>Test Dates:</b> 5/20/2024 - 7/01/2024	<b>EUT Type:</b> Tablet Device	Page 100 of 108

**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 7-33.
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**

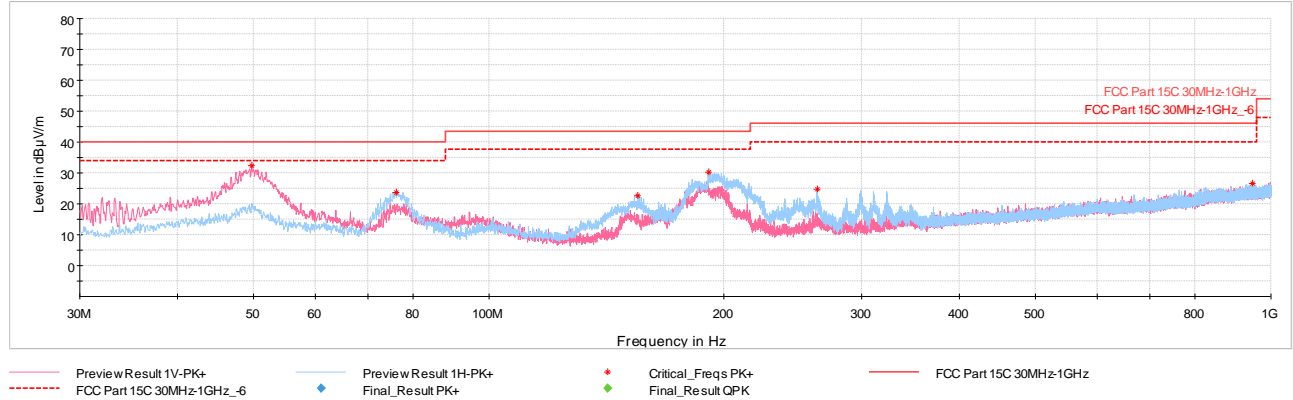
- Field Strength Level  $_{[dB_{\mu V/m}]}$  = Analyzer Level  $_{[dBm]}$  + 107 + AFCL  $_{[dB/m]}$
- AFCL  $_{[dB/m]}$  = Antenna Factor  $_{[dB/m]}$  + Cable Loss  $_{[dB]}$  – Pre-amplifier Gain  $_{[dB]}$
- Margin  $_{[dB]}$  = Field Strength Level  $_{[dB_{\mu V/m}]}$  – Limit  $_{[dB_{\mu V/m}]}$

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## Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209; RSS-Gen [8.9]

### TxBF



Plot 7-118. Radiated Spurious Emissions Below 1GHz TxBF (GFSK ePA – Ch.39, 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]
49.79	Max Peak	V	100	59	-61.87	-12.80	32.33	40.00	-7.67
76.27	Max Peak	H	200	259	-62.72	-20.66	23.62	40.00	-16.38
155.18	Max Peak	H	200	143	-64.99	-19.32	22.69	43.52	-20.83
191.02	Max Peak	H	200	319	-59.84	-16.81	30.35	43.52	-13.17
262.90	Max Peak	H	100	235	-67.59	-14.70	24.71	46.02	-21.31
947.43	Max Peak	H	200	206	-78.55	-1.77	26.68	46.02	-19.34

Table 7-34. Radiated Spurious Emissions Below 1GHz TxBF (GFSK ePA – Ch.39 with AC/DC Adapter)

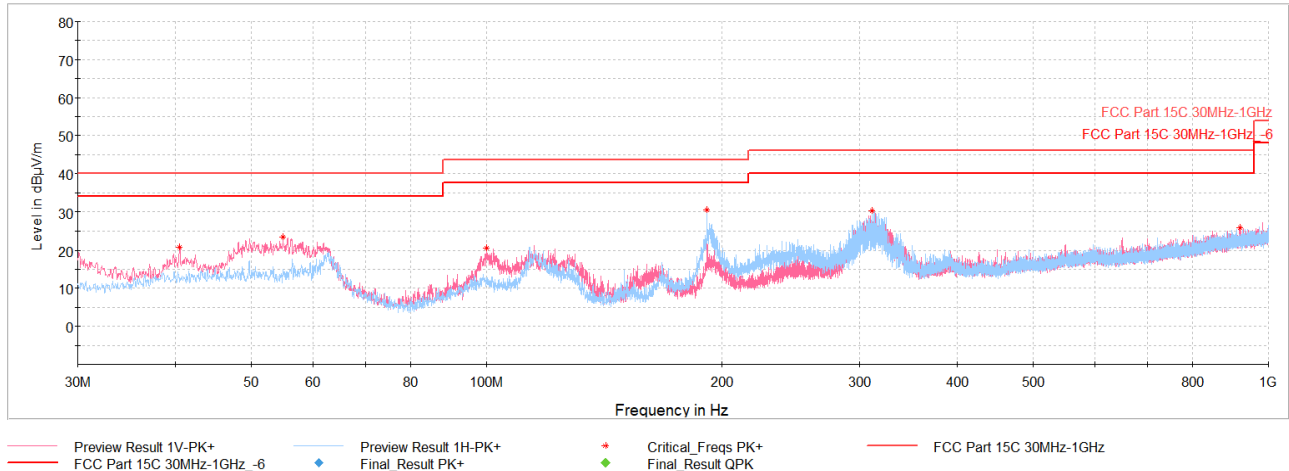
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### 7.10.1 Simultaneous Tx Radiated Spurious Emissions Measurements (Below 1GHz) §15.209; RSS-Gen [8.9]

Description	Bluetooth	UNII
Antenna	Antenna WF2	Antenna WF2
Channel	78	36
Operating Frequency (MHz)	2480	5180
Mode/Modulation	GFSK iPA	802.11n

**Table 7-35. Worst Case Simultaneous Transmission Configuration**



**Plot 7-119. Radiated Spurious Emissions - Simultaneous Transmission Below 1GHz (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]
40.52	Max Peak	V	100	268	-72.48	-13.67	20.85	40.00	-19.15
54.93	Max Peak	V	100	268	-69.85	-13.55	23.60	40.00	-16.40
100.13	Max Peak	V	100	217	-70.27	-16.10	20.63	43.52	-22.89
191.17	Max Peak	H	100	189	-59.74	-16.78	30.48	43.52	-13.04
310.72	Max Peak	H	100	223	-63.11	-13.59	30.30	46.02	-15.72
920.85	Max Peak	V	200	8	-79.23	-1.89	25.88	46.02	-20.14

**Table 7-36. Radiated Spurious Emissions - Simultaneous Transmission Below 1GHz (with AC/DC Adapter)**

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## 7.11 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 7-37. Conducted Limits**

\*Decreases with the logarithm of the frequency.

### Test Procedures Used

ANSI C63.10-2020, Section 6.2

### Test Settings

#### Quasi-Peak Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

#### Average Measurements

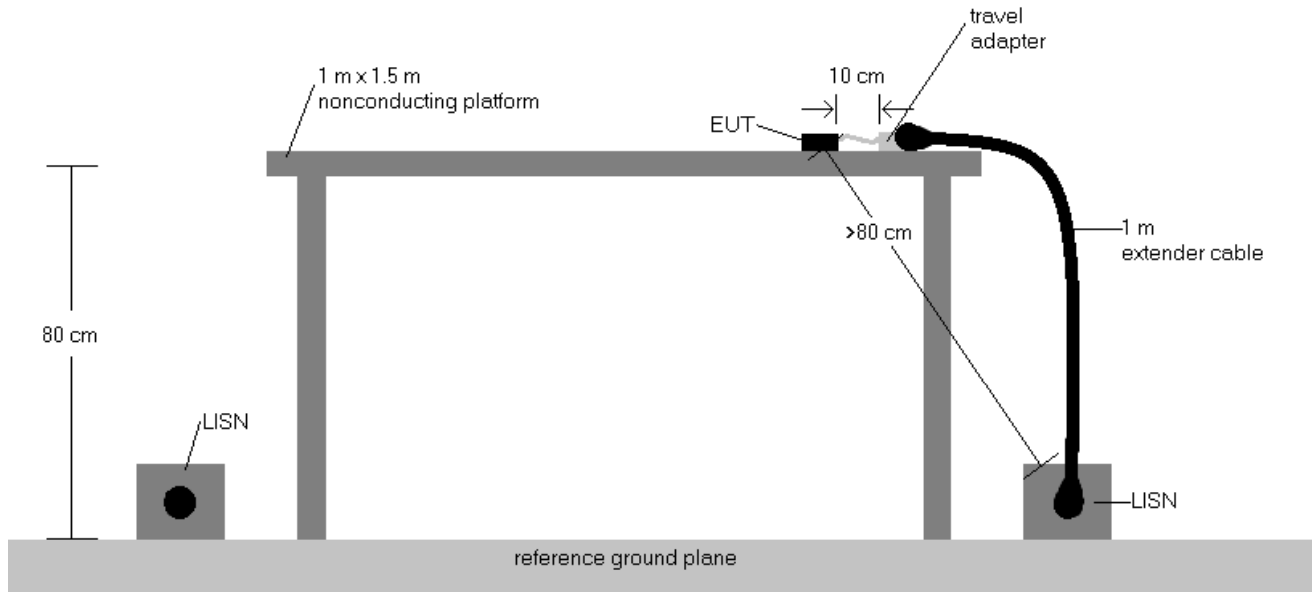
1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = RMS
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

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## Test Setup

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



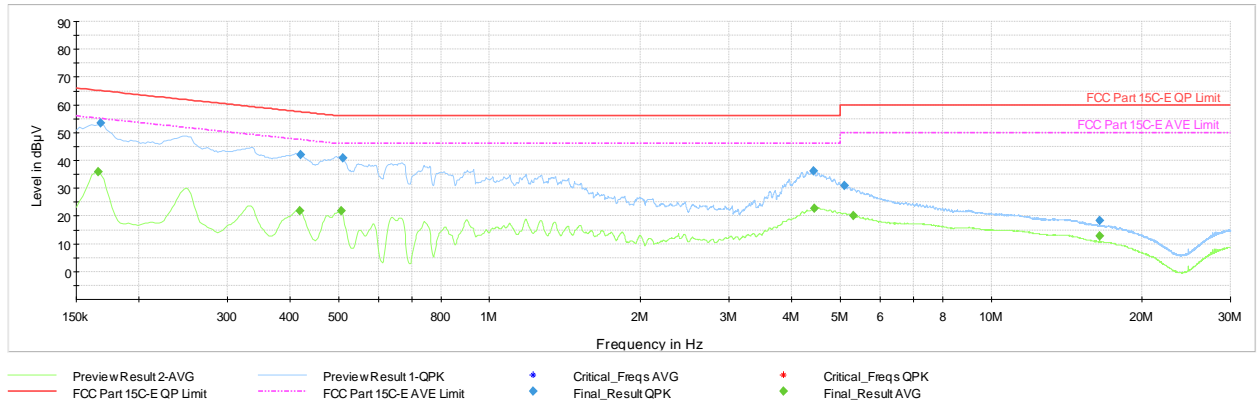
**Figure 7-11. Test Instrument & Measurement Setup**

## 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.

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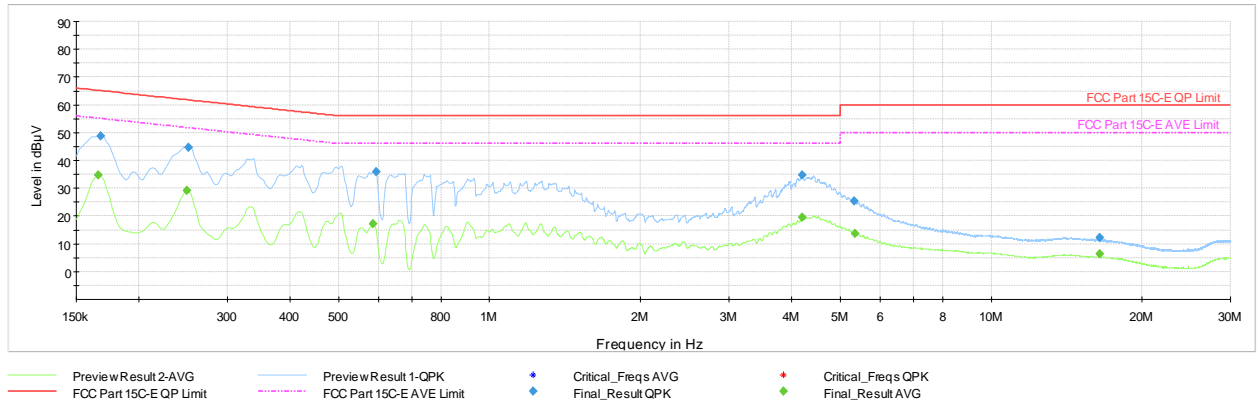


**Plot 7-120. AC Line-Conducted Test Plot TxBF (L1, GFSK ePA – Ch.39, with AC/DC Adapter)**

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.166	FINAL	—	35.92	55.17	-19.25	L1	GND
0.168	FINAL	53.3	—	65.06	-11.73	L1	GND
0.418	FINAL	—	21.97	47.49	-25.52	L1	GND
0.420	FINAL	42.1	—	57.45	-15.35	L1	GND
0.506	FINAL	—	21.80	46.00	-24.20	L1	GND
0.510	FINAL	40.8	—	56.00	-15.20	L1	GND
4.432	FINAL	36.1	—	56.00	-19.91	L1	GND
4.448	FINAL	—	22.81	46.00	-23.19	L1	GND
5.105	FINAL	30.9	—	60.00	-29.14	L1	GND
5.305	FINAL	—	20.14	50.00	-29.86	L1	GND
16.469	FINAL	—	12.70	50.00	-37.30	L1	GND
16.469	FINAL	18.2	—	60.00	-41.76	L1	GND

**Table 7-38. AC Line-Conducted Test Data TxBF (L1, GFSK ePA – Ch. 39, with AC/DC Adapter)**

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**Plot 7-121. AC Line-Conducted Test Plot TxBF (N, GFSK ePA – Ch.39, with AC/DC Adapter)**

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.166	FINAL	—	34.64	55.17	-20.54	N	GND
0.168	FINAL	48.9	—	65.06	-16.20	N	GND
0.249	FINAL	—	29.11	51.79	-22.68	N	GND
0.251	FINAL	44.8	—	61.72	-16.92	N	GND
0.587	FINAL	—	17.30	46.00	-28.70	N	GND
0.593	FINAL	35.8	—	56.00	-20.22	N	GND
4.196	FINAL	—	19.48	46.00	-26.52	N	GND
4.202	FINAL	34.8	—	56.00	-21.19	N	GND
5.330	FINAL	25.4	—	60.00	-34.62	N	GND
5.354	FINAL	—	13.82	50.00	-36.18	N	GND
16.472	FINAL	—	6.33	50.00	-43.67	N	GND
16.472	FINAL	12.3	—	60.00	-47.68	N	GND

**Table 7-39. AC Line-Conducted Test Data TxBF (N, GFSK ePA – Ch.39, with AC/DC Adapter)**

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## 8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Apple Tablet Device FCC ID: BCGA2993 and IC: 579C-A2993** 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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