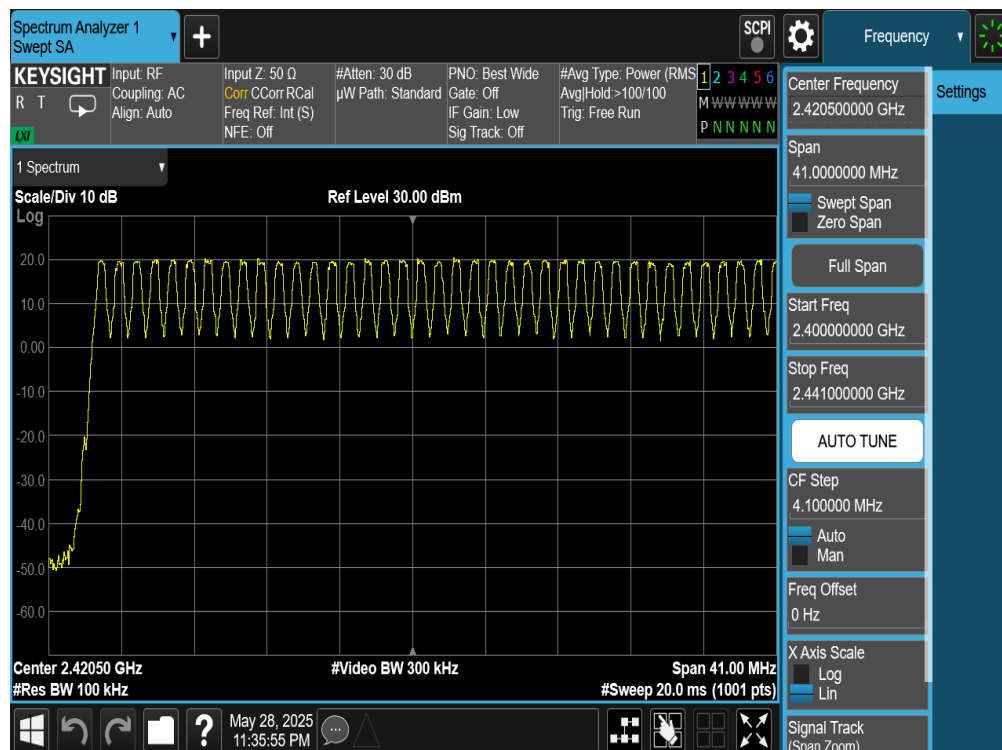
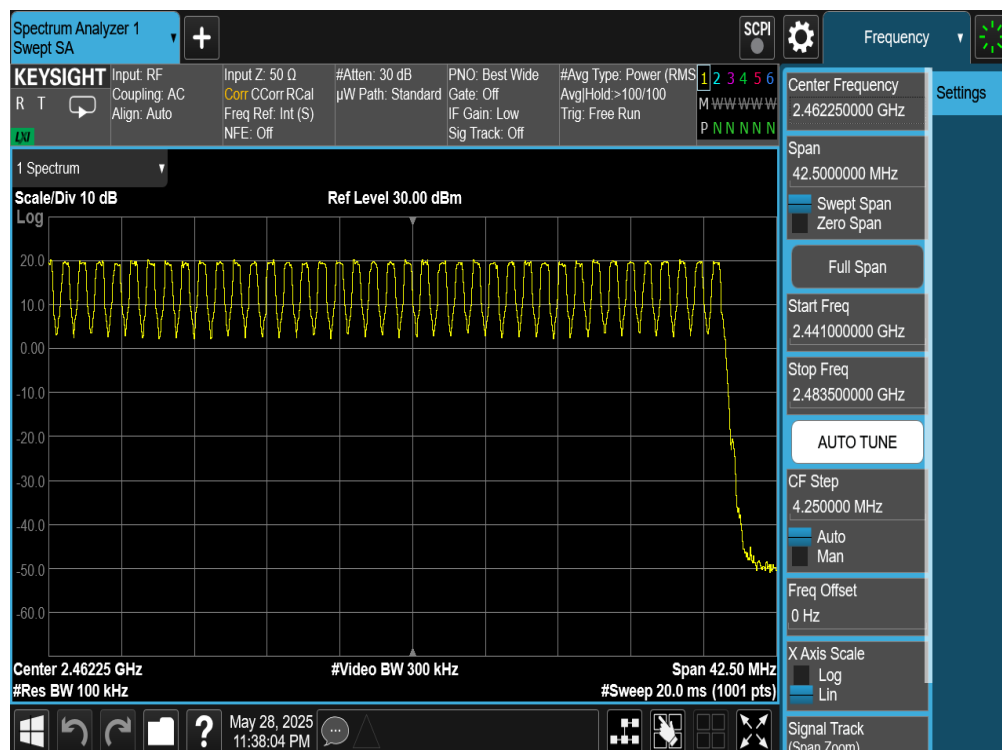


7.7.2 Antenna 2a



Plot 7-41. Low End Spectrum Channel Hopping Plot Antenna 2a (Bluetooth, GFSK, ePA)

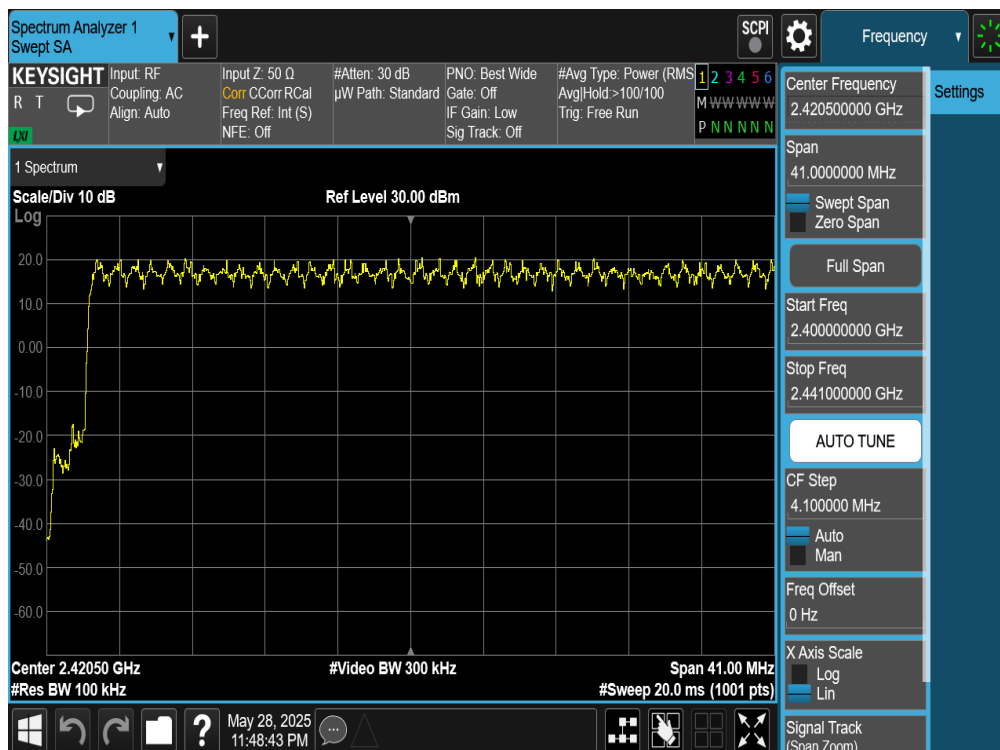


Plot 7-42. High End Spectrum Channel Hopping Plot Antenna 2a (Bluetooth, GFSK, ePA)

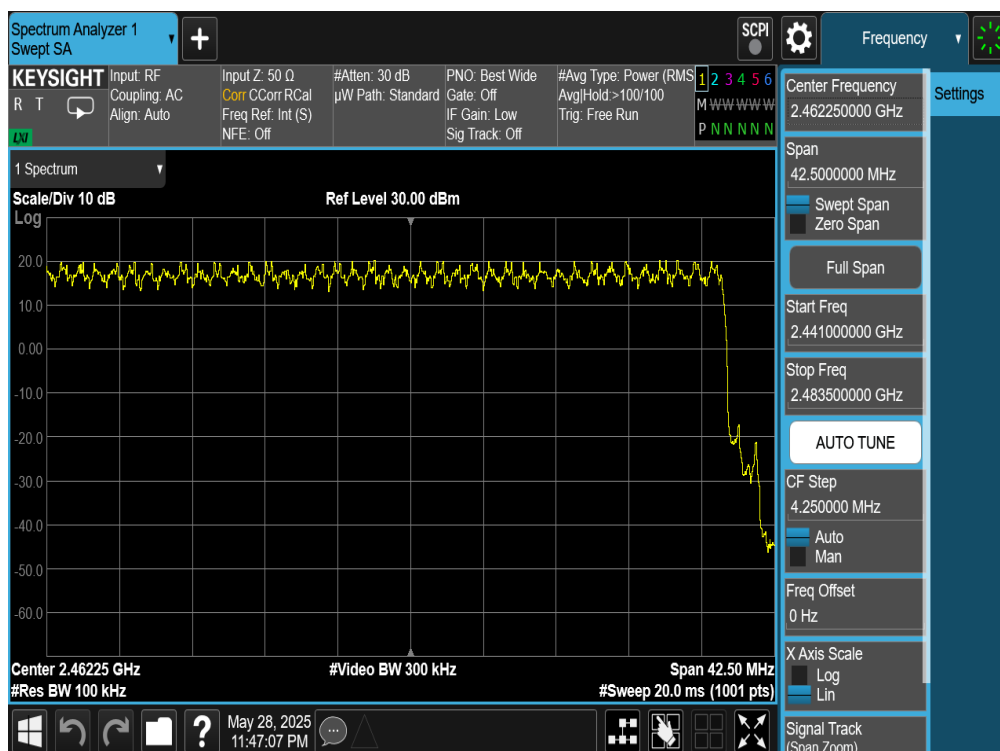
FCC ID: BCGA3361 IC: 579C-A3361		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-18.BCG	Test Dates: 05/12/2025 - 07/19/2025	EUT Type: Tablet Device	Page 49 of 81

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Plot 7-43. Low End Spectrum Channel Hopping Plot Antenna 2a (Bluetooth, 8DPSK, ePA)



Plot 7-44. High End Spectrum Channel Hopping Plot Antenna 2a (Bluetooth, 8DPSK, ePA)

FCC ID: BCGA3361 IC: 579C-A3361		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.8 Conducted Spurious Emissions

§15.247 (d); RSS-247 [5.5]

Test Overview and Limit

Conducted out-of-band spurious emissions were investigated from 30MHz up to 25GHz to include the 10th harmonic of the fundamental transmit frequency. **The maximum permissible out-of-band emission level is 20 dBc.**

Test Procedure Used

ANSI C63.10-2020 – Section 7.8.8

Test Settings

1. Start frequency was set to 30MHz and stop frequency was set to 25GHz (separated into two plots per channel)
2. RBW = 1MHz* (See note below)
3. VBW = 3MHz
4. Detector = Peak
5. Trace mode = max hold
6. Sweep time = auto couple
7. The trace was allowed to stabilize

Test Setup

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

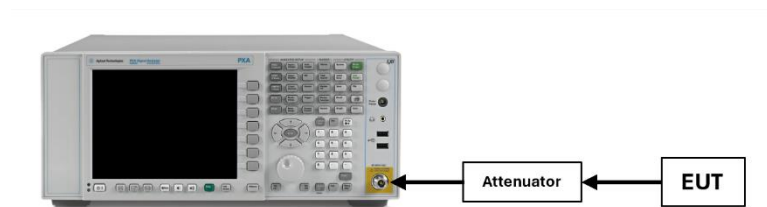


Figure 7-7. Test Instrument & Measurement Setup

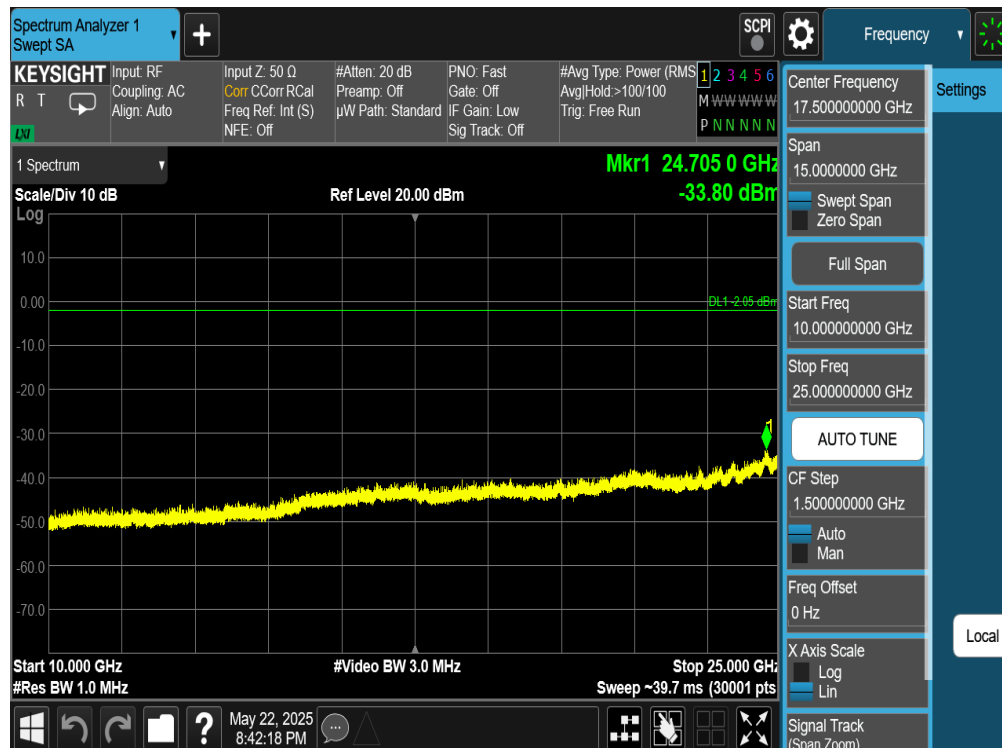
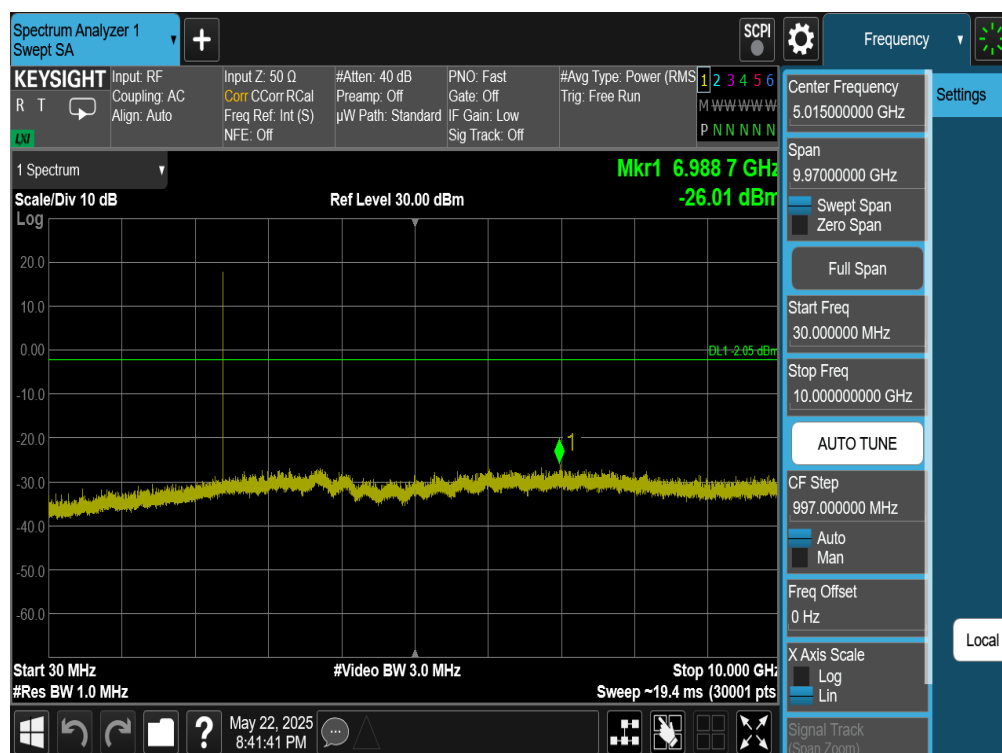
Test Notes

1. Out-of-band conducted spurious emissions were investigated for all data rates and the worst case emissions were found with the EUT transmitting at 1Mbps. The display line shown in the following plots is the limit at 20dB below the fundamental emission level measured in a 100kHz bandwidth. However, the traces in the following plots are measured with a 1MHz RBW to reduce test time, so the display line may not necessarily appear to be 20dB below the level of the fundamental in a 1MHz bandwidth.
2. The unit was tested with all possible mode and power schemes and only the highest emission is reported.

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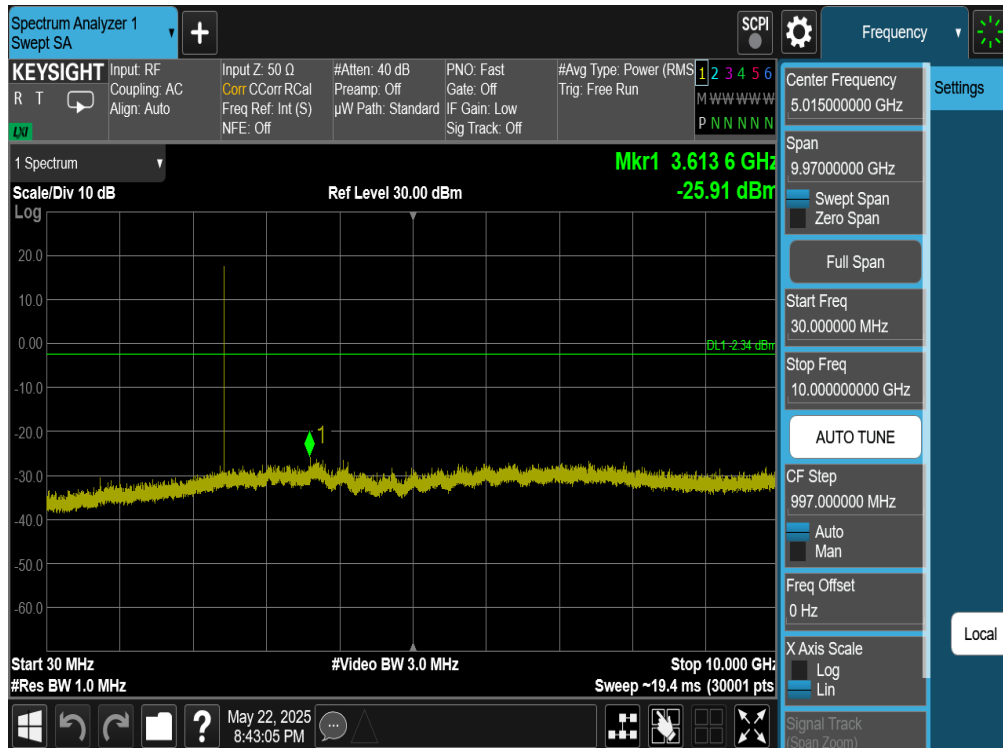
7.8.1 Antenna 4a



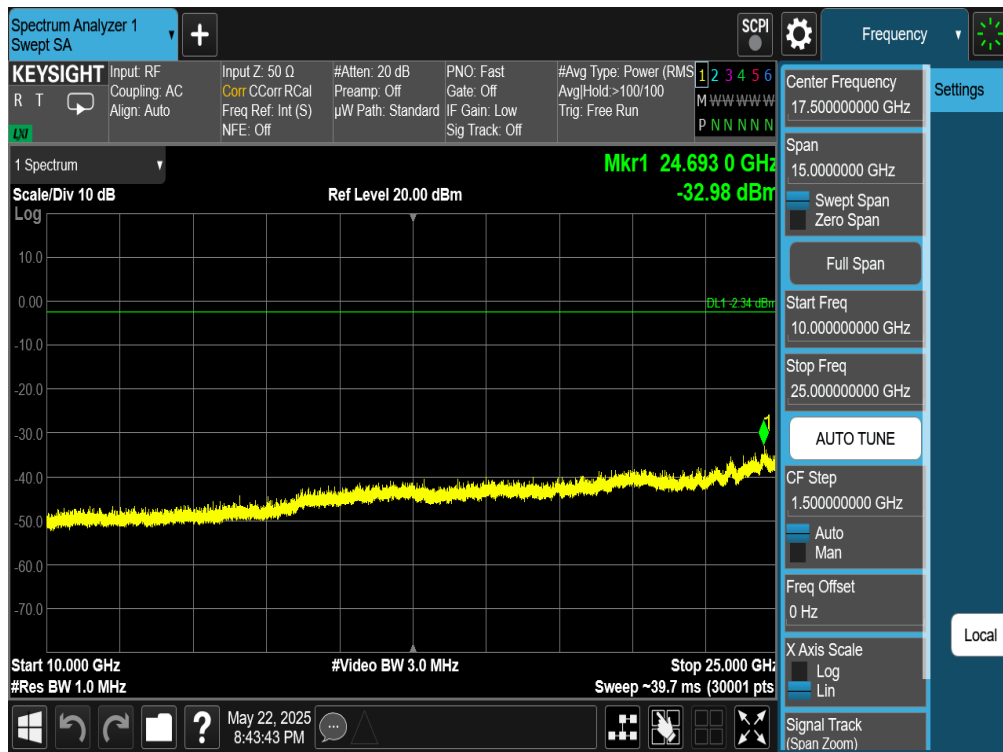
FCC ID: BCGA3361 IC: 579C-A3361		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-18.BCG	Test Dates: 05/12/2025 - 07/19/2025	EUT Type: Tablet Device	Page 52 of 81

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Plot 7-47. Conducted Spurious Plot Antenna 4a (Bluetooth, GFSK, ePA – Ch. 39)

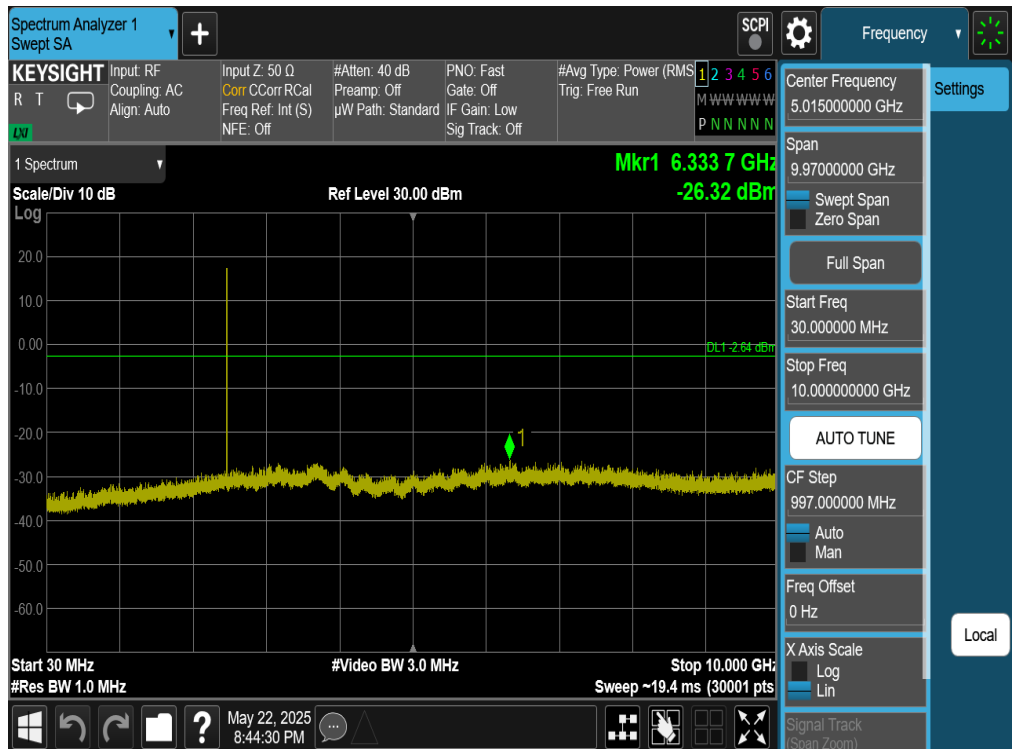


Plot 7-48. Conducted Spurious Plot Antenna 4a (Bluetooth, GFSK, ePA Ch. 39)

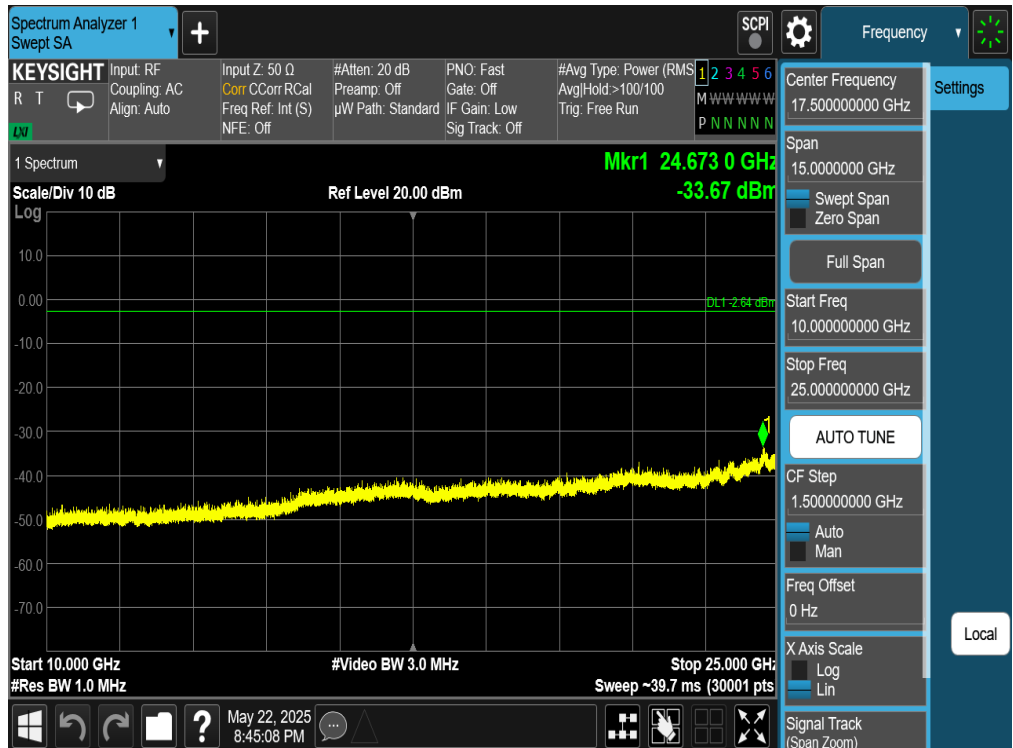
FCC ID: BCGA3361 IC: 579C-A3361		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-18.BCG	Test Dates: 05/12/2025 - 07/19/2025	EUT Type: Tablet Device	Page 53 of 81

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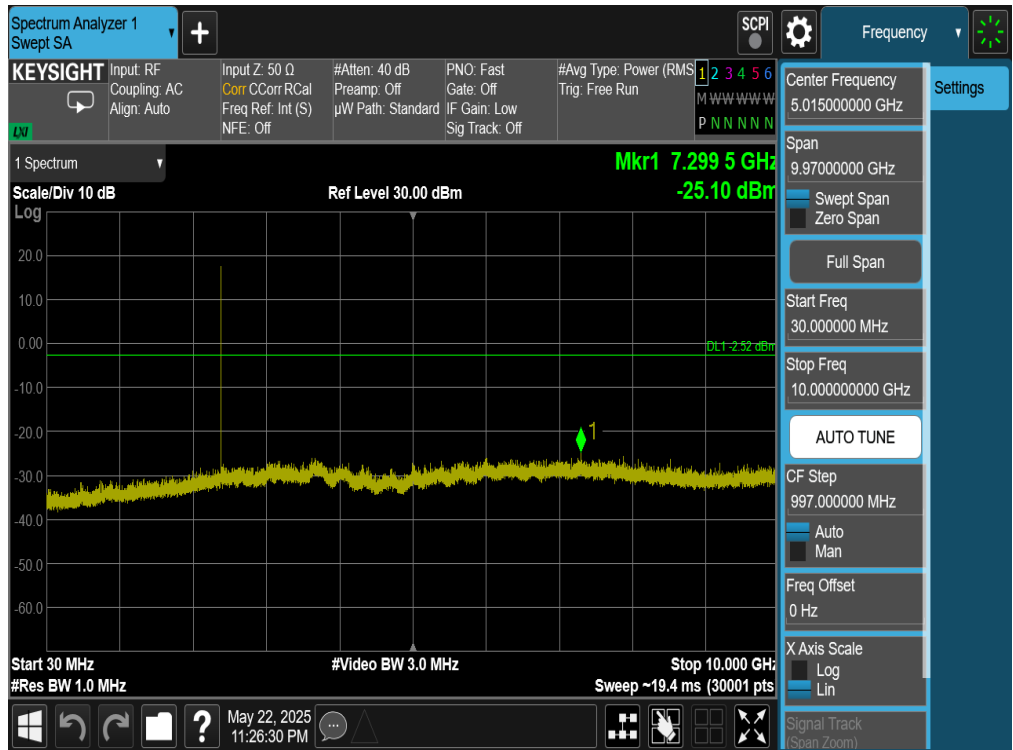
Plot 7-49. Conducted Spurious Plot Antenna 4a (Bluetooth, GFSK, ePA – Ch. 78)



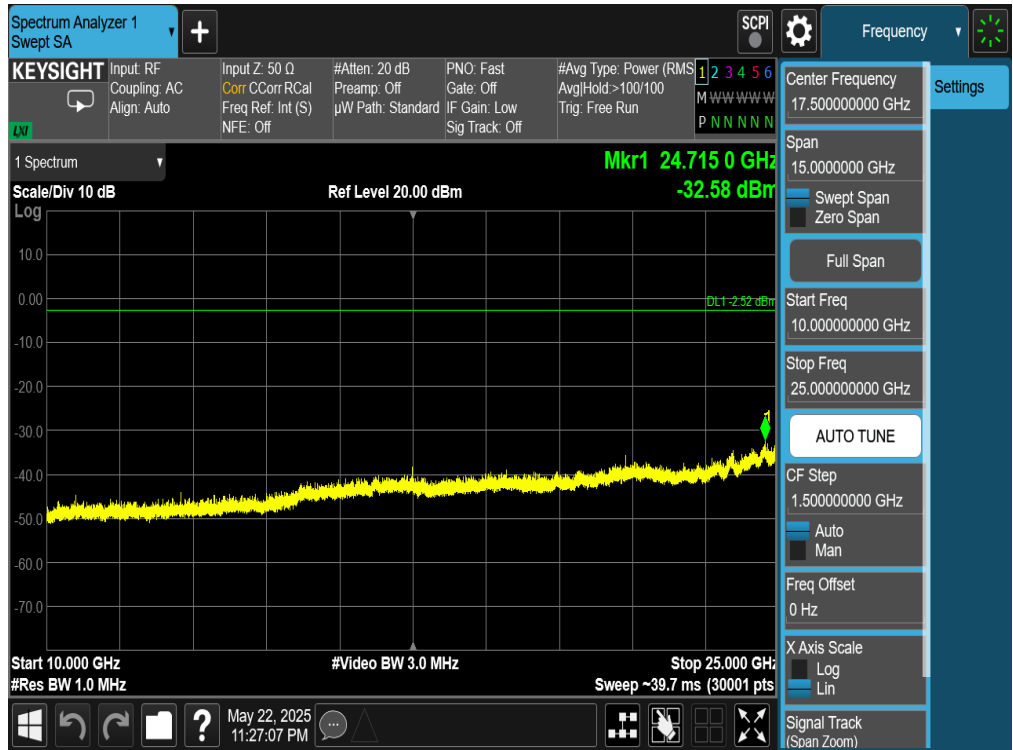
Plot 7-50. Conducted Spurious Plot Antenna 4a (Bluetooth, GFSK, ePA – Ch. 78)

FCC ID: BCGA3361 IC: 579C-A3361		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.8.2 Antenna 2a

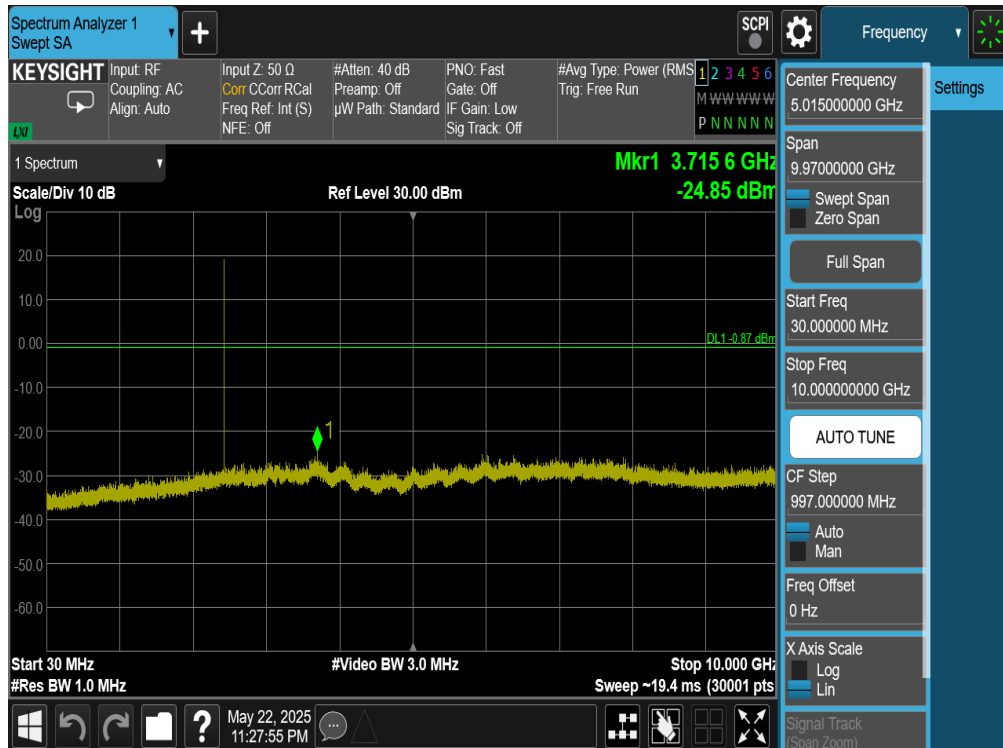


Plot 7-51. Conducted Spurious Plot Antenna 2a (Bluetooth, GFSK, ePA – Ch. 0)

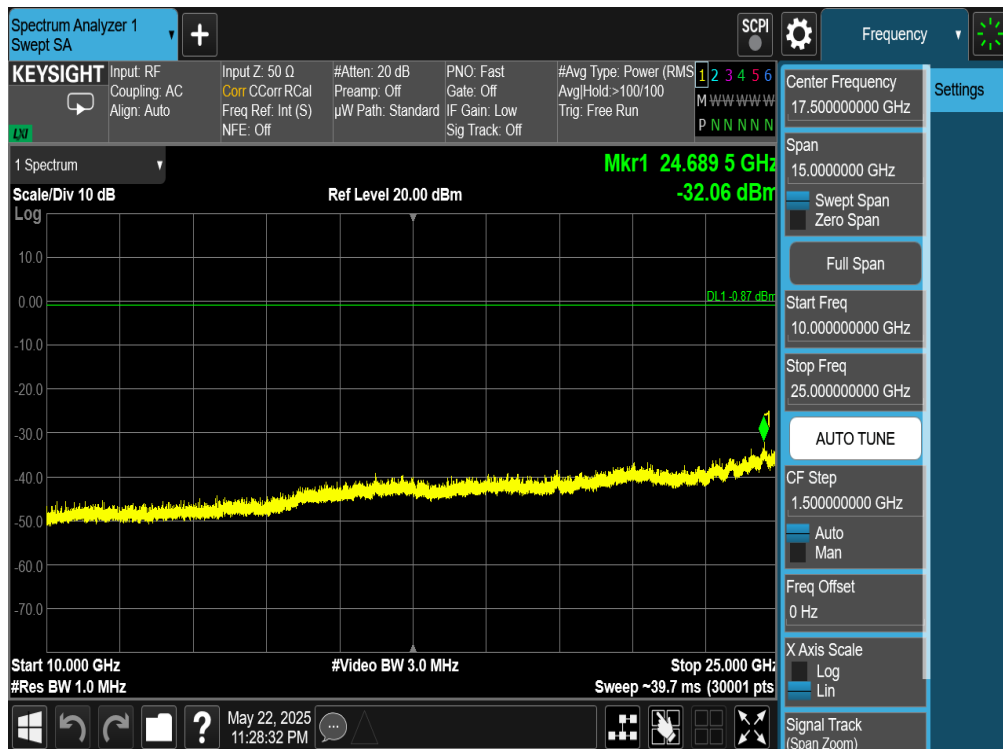


Plot 7-52. Conducted Spurious Plot Antenna 2a (Bluetooth, GFSK, ePA – Ch. 0)

FCC ID: BCGA3361 IC: 579C-A3361	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-53. Conducted Spurious Plot Antenna 2a (Bluetooth, GFSK, ePA – Ch. 39)

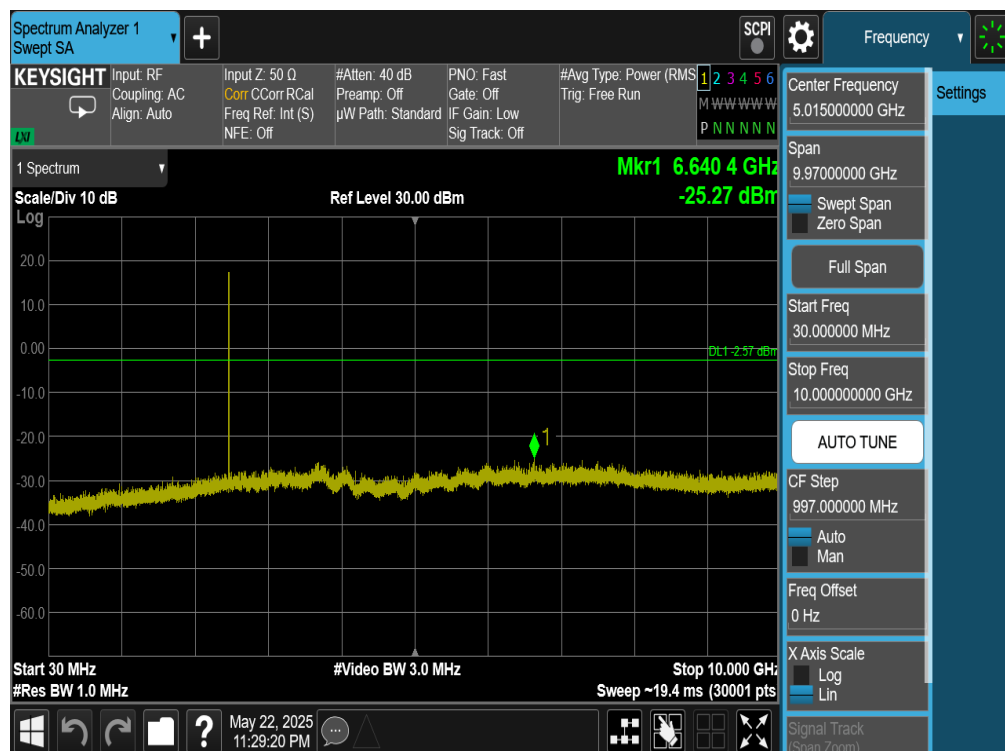


Plot 7-54. Conducted Spurious Plot Antenna 2a (Bluetooth, GFSK, ePA Ch. 39)

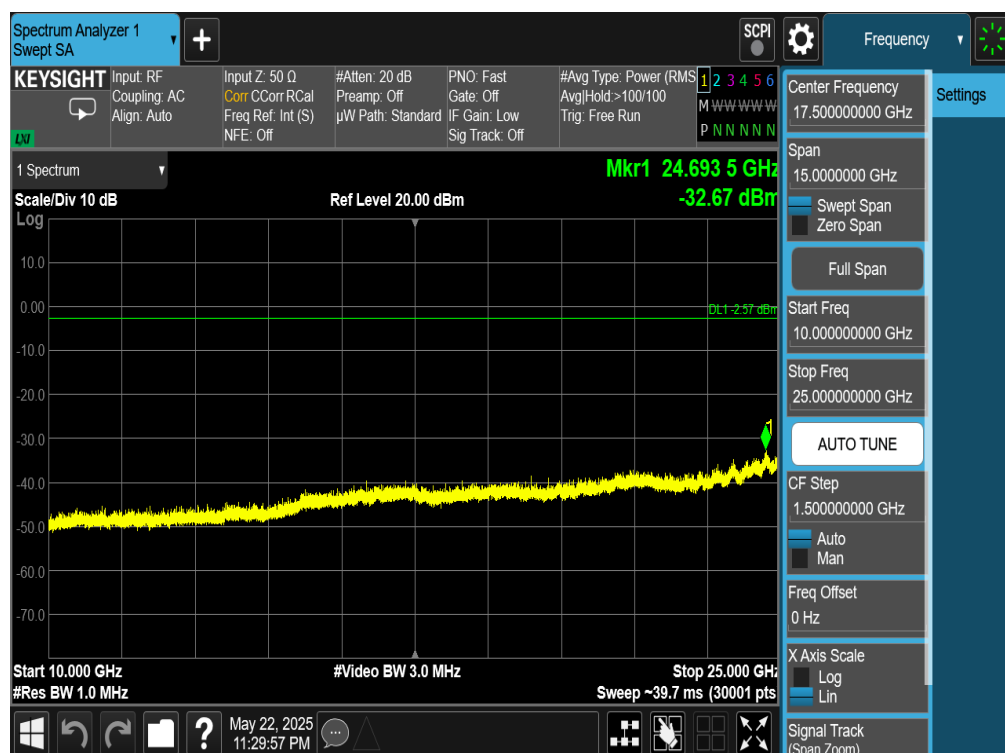
FCC ID: BCGA3361 IC: 579C-A3361	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-18.BCG	Test Dates: 05/12/2025 - 07/19/2025	EUT Type: Tablet Device	Page 56 of 81

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Plot 7-55. Conducted Spurious Plot Antenna 2a (Bluetooth, GFSK, ePA – Ch. 78)



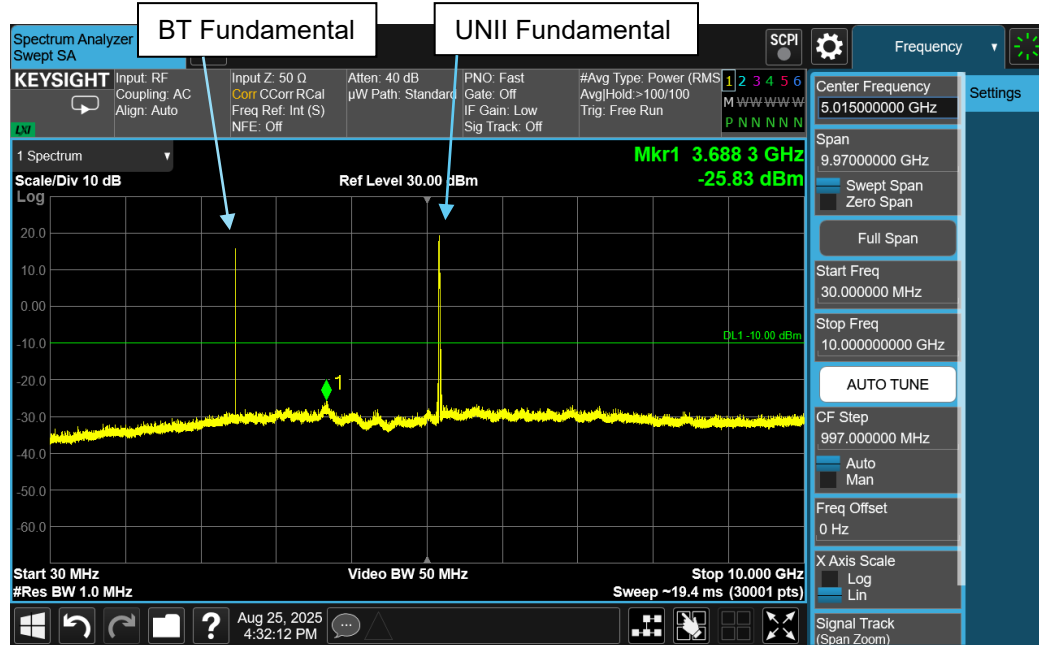
Plot 7-56. Conducted Spurious Plot Antenna 2a (Bluetooth, GFSK, ePA – Ch. 78)

FCC ID: BCGA3361 IC: 579C-A3361		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-18.BCG	Test Dates: 05/12/2025 - 07/19/2025	EUT Type: Tablet Device	Page 57 of 81

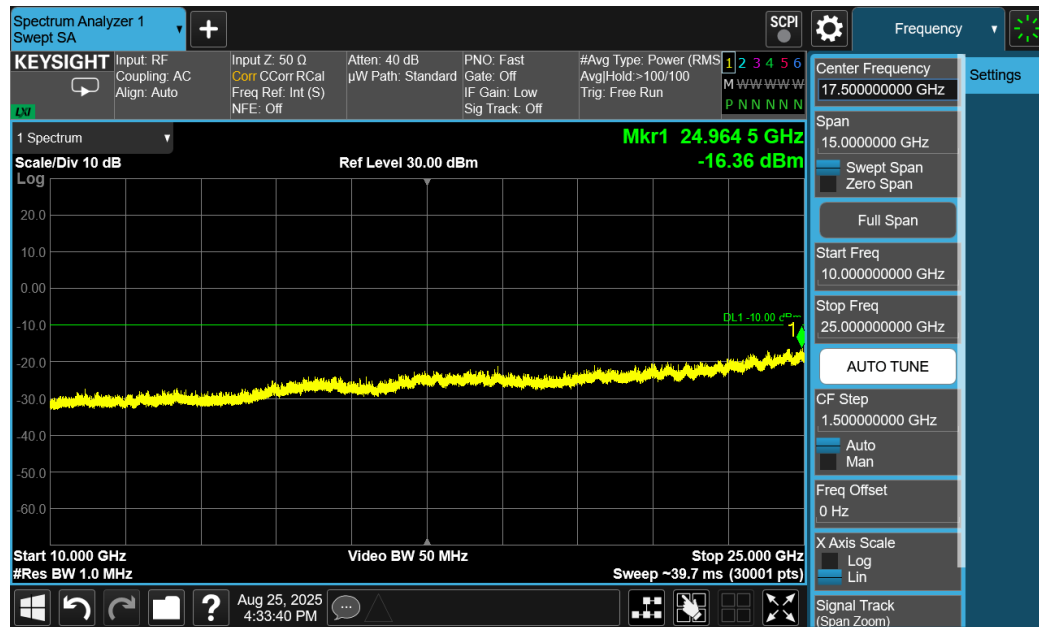
7.8.3 Simultaneous Tx Conducted Spurious Emissions

Description	Bluetooth	UNII
Antenna	Antenna 4a	Antenna 4a
Channel	78	36
Operating Frequency (MHz)	2480	5180
Mode/Modulation	GFSK ePA	802.11n

Table 7-12. Worst Case Simultaneous Transmission Configuration



Plot 7-57. Conducted Spurious Plot Simultaneous Transmission



Plot 7-58. Conducted Spurious Plot Simultaneous Transmission

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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 7-13 per Section 15.209 and RSS-Gen (8.9).

Frequency	Field Strength [μV/m]	Measured Distance [Meters]
Above 960.0 MHz	500	3

Table 7-13. 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

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Test Setup

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

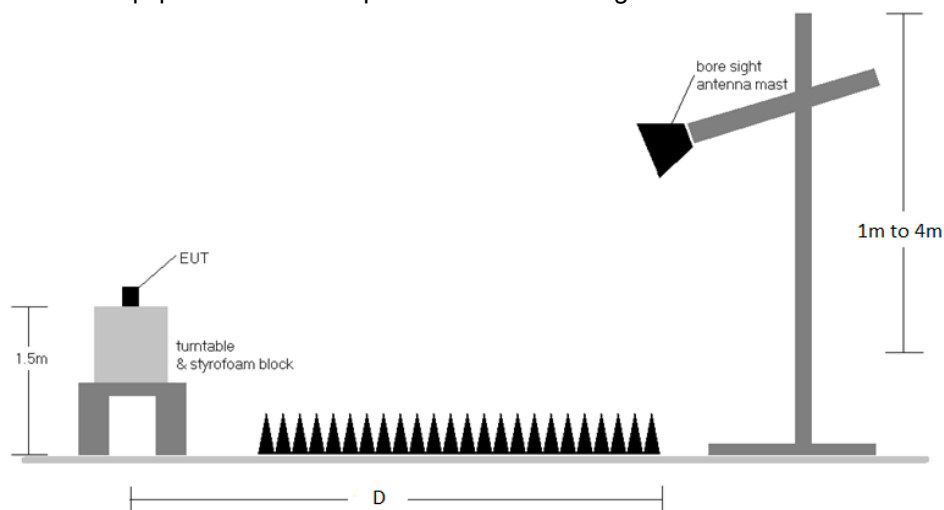


Figure 7-8. Radiated Test Setup >1GHz

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 7-13.
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 10th 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

Determining Spurious Emissions Levels

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

Radiated Band Edge Measurement Offset

- The amplitude offset shown in the radiated restricted band edge plots in Sections 7.9.3 to 7.9.5 was calculated using the formula:
Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

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

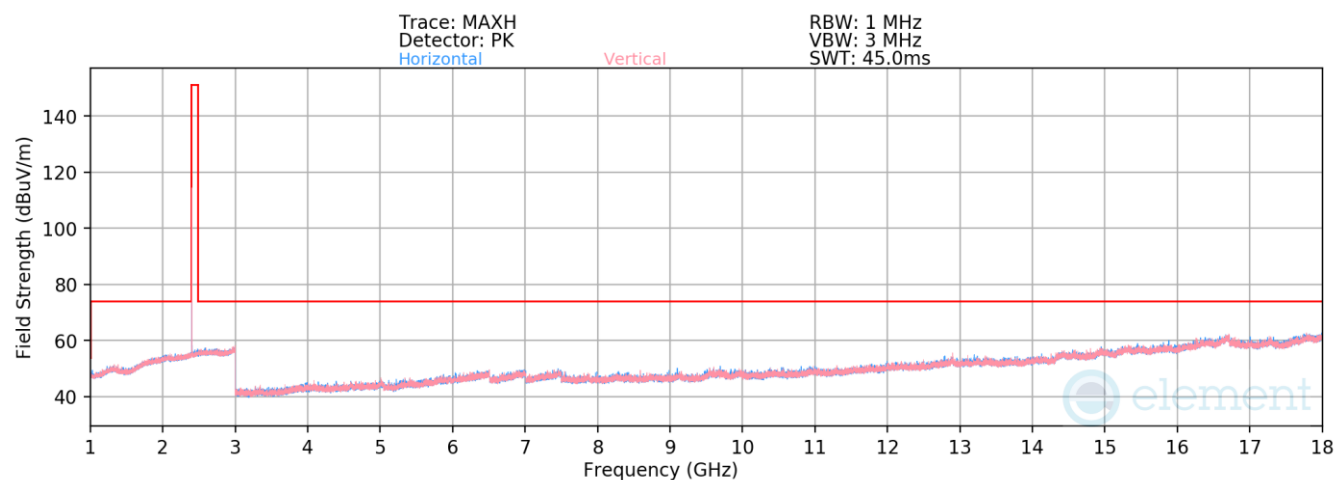
- Average Emission = Measured Peak Emissions $_{[dB\mu V/m]} - \text{Duty Cycle Correction Factor }_{[dB]}$

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7.9.1 TxBF Radiated Spurious Emission Measurements



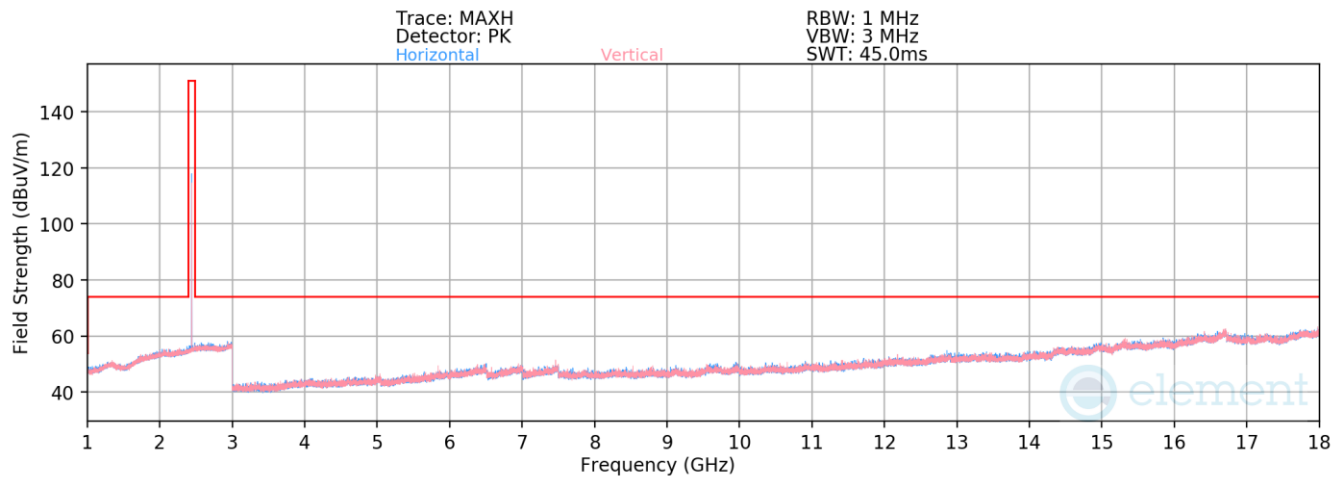
Plot 7-59. Radiated Spurious Emissions 1 – 18GHz TxBF (BT GFSK ePA – Ch. 0)

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

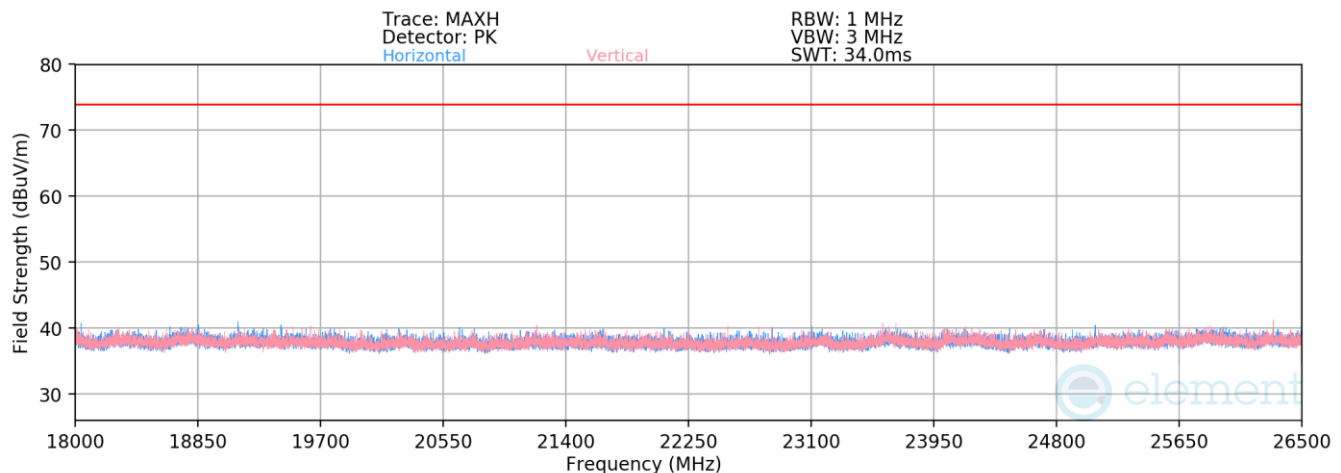
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
4804.00	Peak	H	-	-	-66.19	5.20	46.01	73.98	-27.97
12010.00	Peak	H	-	-	-71.37	16.32	51.95	73.98	-22.03

Table 7-14. Radiated Measurements TxBF

FCC ID: BCGA3361 IC: 579C-A3361		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-60. Radiated Spurious Emissions 1 – 18GHz TxBF (BT GFSK ePA – Ch. 39)



Plot 7-61. 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

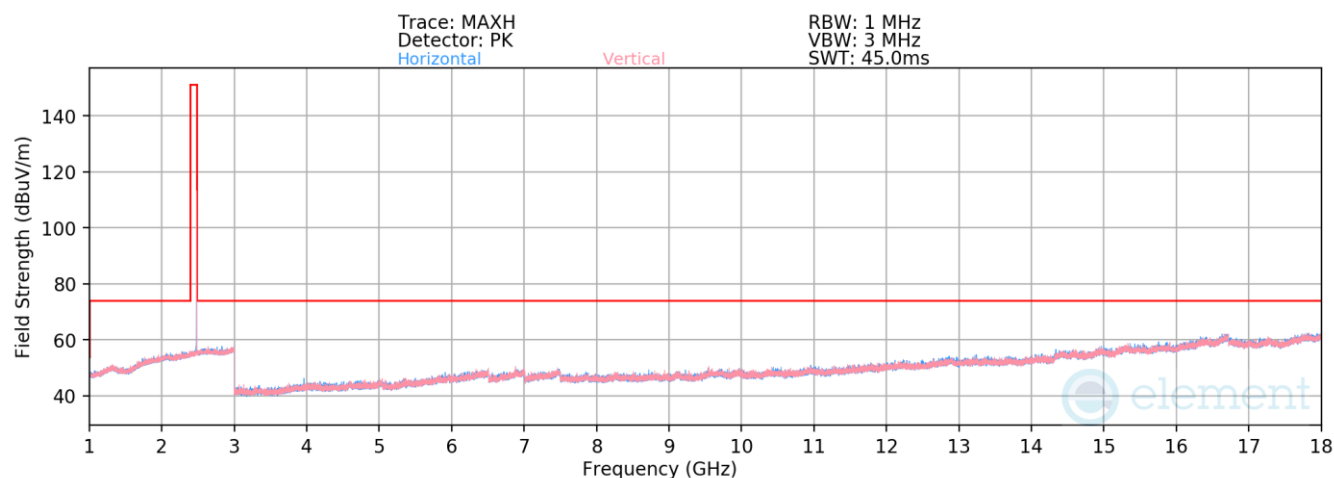
Operating Frequency: 2441MHz

Channel: 39

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
4882.00	Peak	H	-	-	-67.08	5.21	45.14	73.98	-28.84
7323.00	Peak	V	-	-	-68.15	9.86	48.70	73.98	-25.28
12205.00	Peak	V	-	-	-70.41	15.64	52.23	73.98	-21.75

Table 7-15. Radiated Measurements TxBF

FCC ID: BCGA3361 IC: 579C-A3361		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-62. Radiated Spurious Emissions 1 – 18GHz 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 [dBuV/m]	Limit [dBuV/m]	Margin [dB]
4960.00	Peak	V	-	-	-66.77	5.48	45.71	73.98	-28.27
7440.00	Peak	H	-	-	-66.47	10.52	51.05	73.98	-22.93
12400.00	Peak	V	-	-	-69.94	15.71	52.77	73.98	-21.21

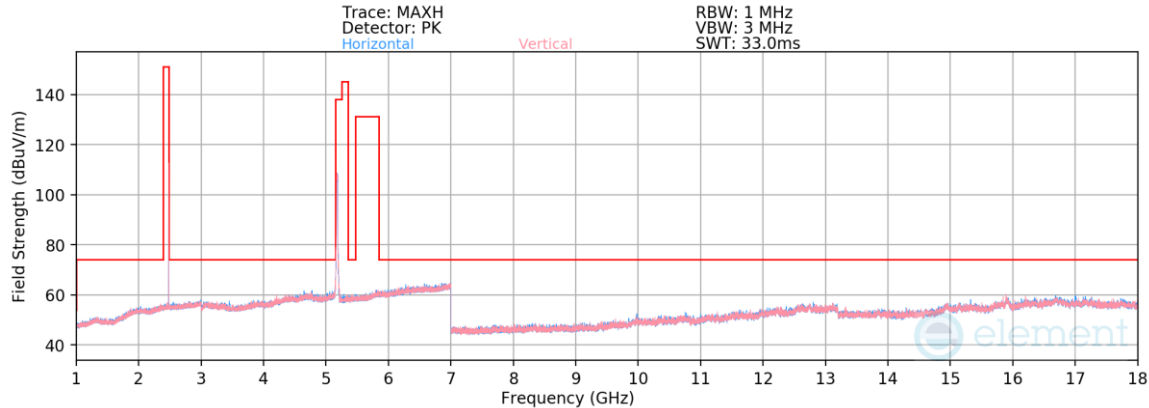
Table 7-16. Radiated Measurements TxBF

FCC ID: BCGA3361 IC: 579C-A3361		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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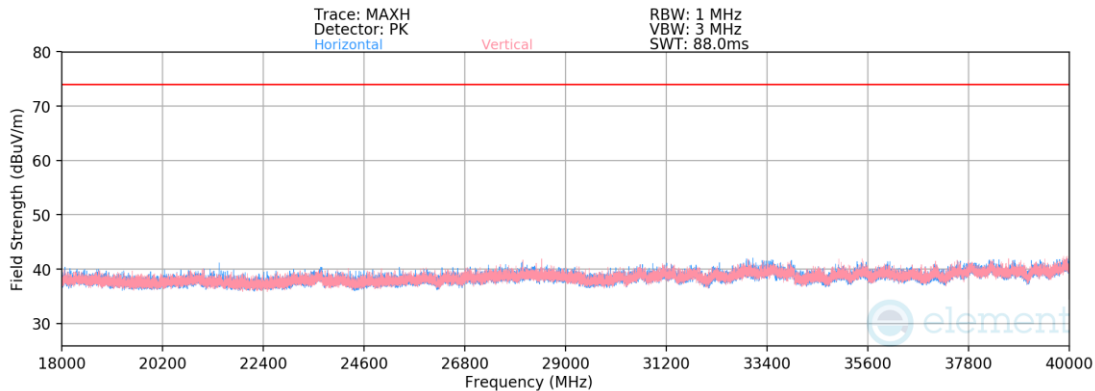
7.9.2 Simultaneous Tx Radiated Spurious Emission (Above 1GHz)

Description	Bluetooth	UNII
Antenna	Antenna 4a	Antenna 4a
Channel	78	36
Operating Frequency (MHz)	2480	5180
Mode/Modulation	GFSK ePA	802.11n

Table 7-17. Worst Case Simultaneous Transmission Configuration



Plot 7-63. Radiated Spurious Emissions 1 - 18GHz – Simultaneous Transmission



Plot 7-64. Radiated Spurious Emissions above 18GHz – Simultaneous Transmission

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	Peak	-	-	-	-68.95	16.57	54.62	73.98	-19.36
7440.00	Peak	-	-	-	-71.02	11.17	47.15	73.98	-26.83
12400.00	Peak	-	-	-	-72.89	18.42	52.53	73.98	-21.45

Table 7-18. Bluetooth Harmonics Emissions Measurement - Simultaneous Transmission

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]
10360.00	Peak	-	-	-	-71.39	15.56	51.17	68.23	-17.06
* 15540.00	Avg	-	-	-	-84.43	22.24	44.81	53.98	-9.17
* 15540.00	Peak	-	-	-	-73.27	22.24	55.97	73.98	-18.01

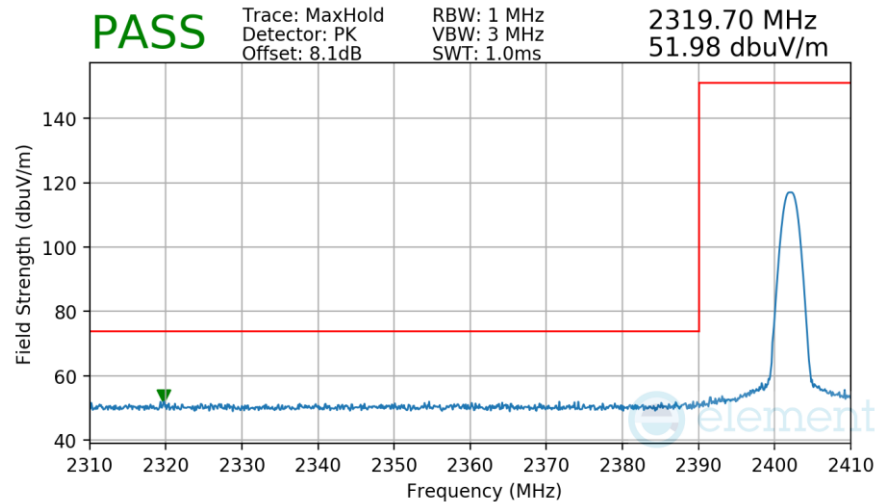
Table 7-19. UNII Harmonics Emissions Measurement - Simultaneous Transmission

FCC ID: BCGA3361 IC: 579C-A3361		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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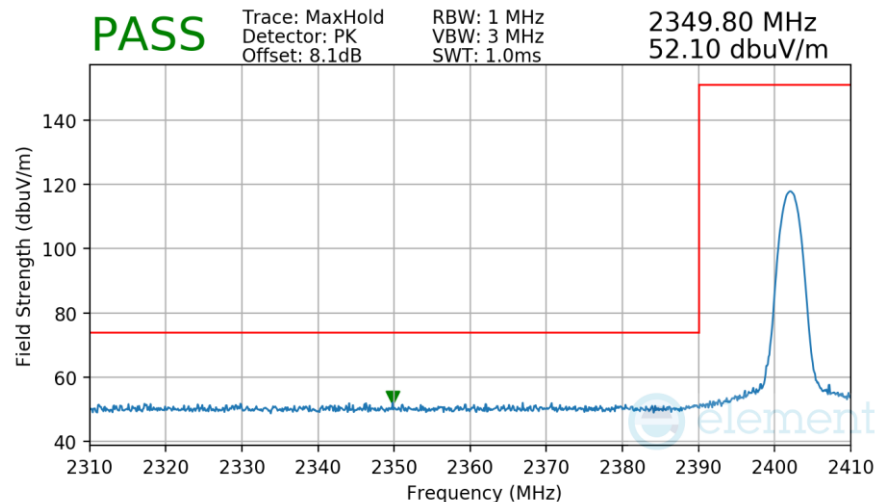
7.9.3 Antenna 4a Radiated Restricted Band Edge Measurements

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



Plot 7-65. Radiated Restricted Lower Band Edge Measurement Antenna 4a

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



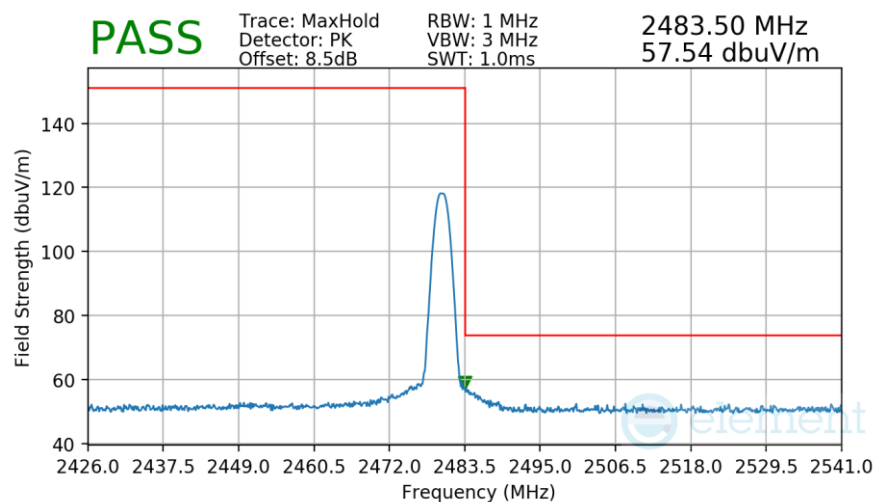
Plot 7-66. Radiated Restricted Lower Band Edge Measurement Antenna 4a

FCC ID: BCGA3361 IC: 579C-A3361		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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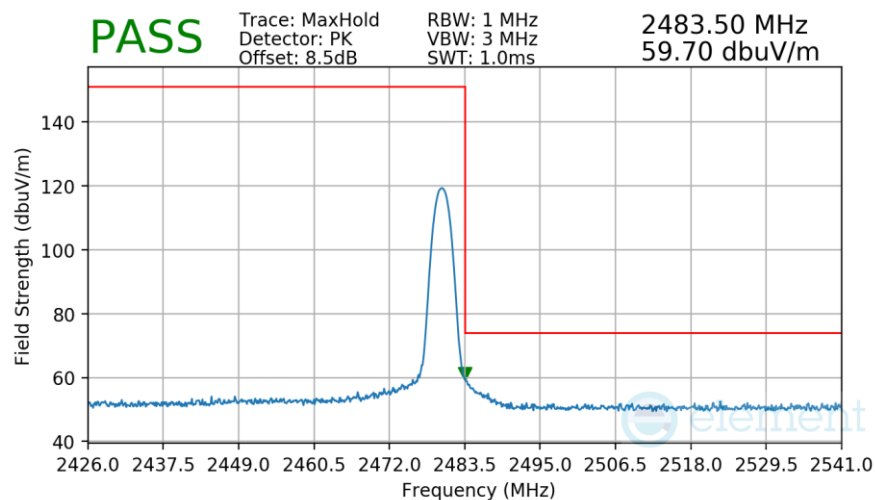
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Bluetooth Mode:	GFSK
Power Scheme:	ePA
Measurement Distance:	3 Meters
Operating Frequency:	2480MHz
Channel:	78



Plot 7-67. Radiated Restricted Upper Band Edge Measurement Antenna 4a

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



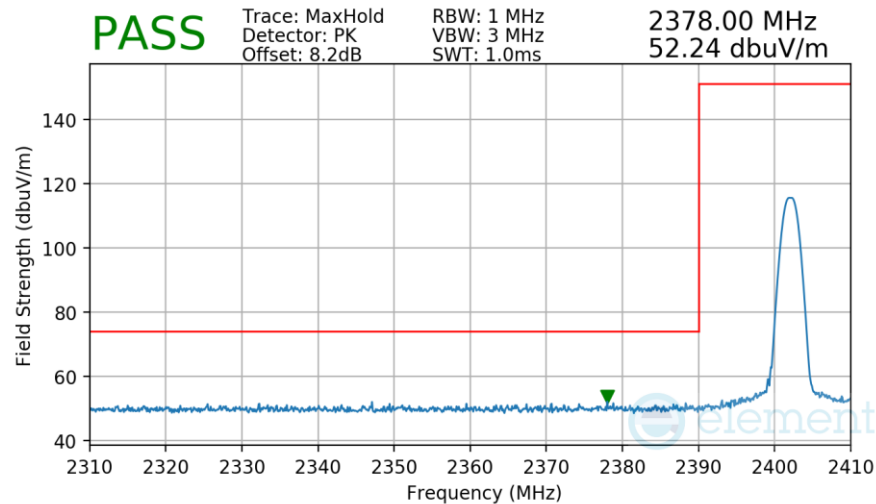
Plot 7-68. Radiated Restricted Upper Band Edge Measurement Antenna 4a

FCC ID: BCGA3361 IC: 579C-A3361	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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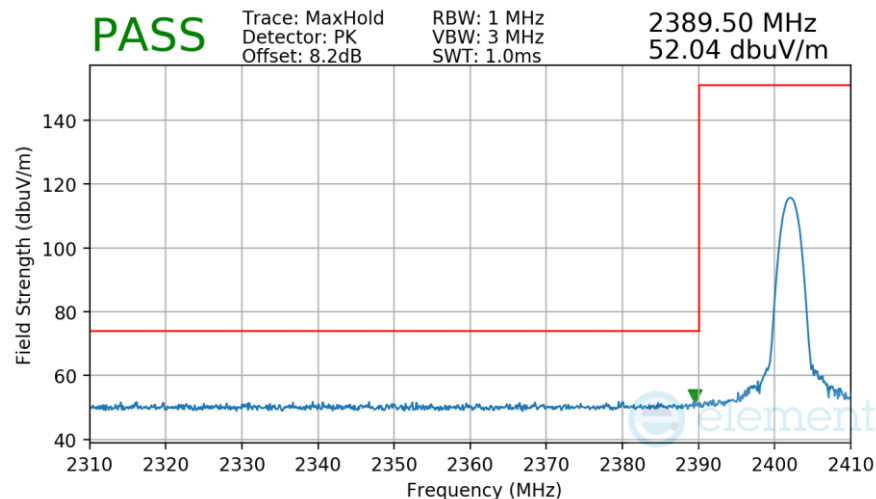
7.9.4 Antenna 2a Radiated Restricted Band Edge Measurements

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



Plot 7-69. Radiated Restricted Lower Band Edge Measurement Antenna 2a

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



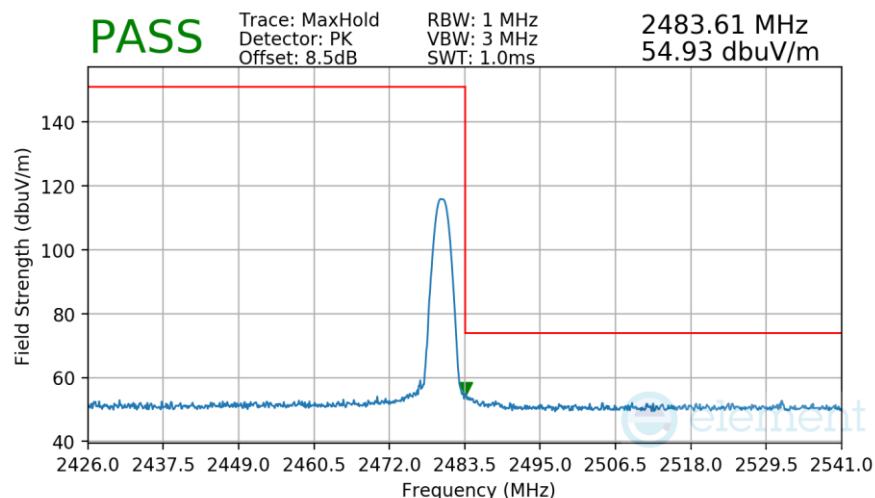
Plot 7-70. Radiated Restricted Lower Band Edge Measurement Antenna 2a

FCC ID: BCGA3361 IC: 579C-A3361		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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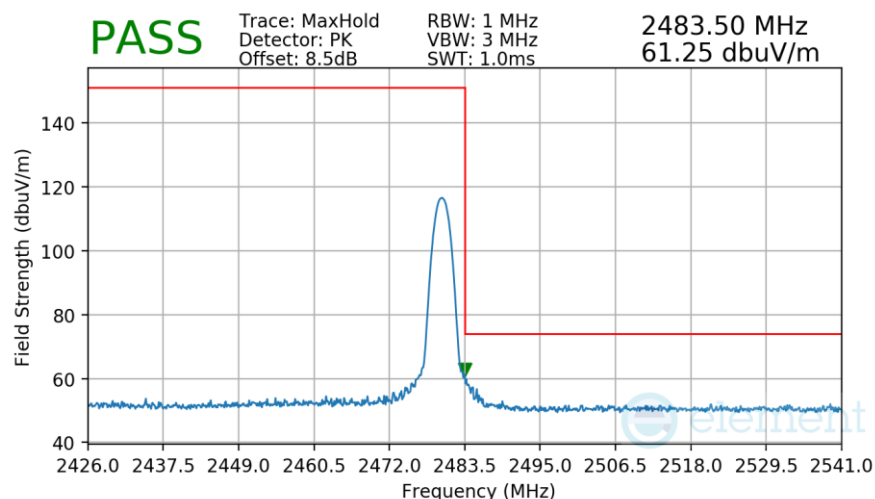
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Bluetooth Mode:	GFSK
Power Scheme:	ePA
Measurement Distance:	3 Meters
Operating Frequency:	2480MHz
Channel:	78



Plot 7-71. Radiated Restricted Upper Band Edge Measurement Antenna 2a

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



Plot 7-72. Radiated Restricted Upper Band Edge Measurement Antenna 2a

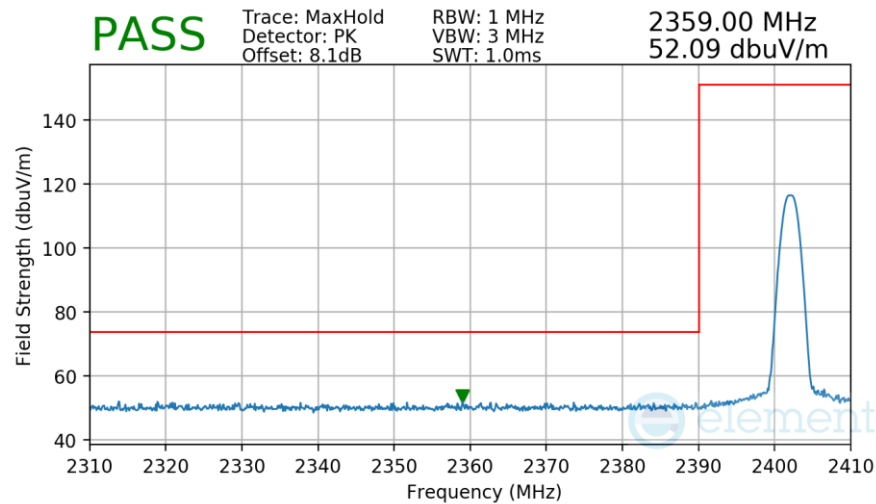
FCC ID: BCGA3361 IC: 579C-A3361	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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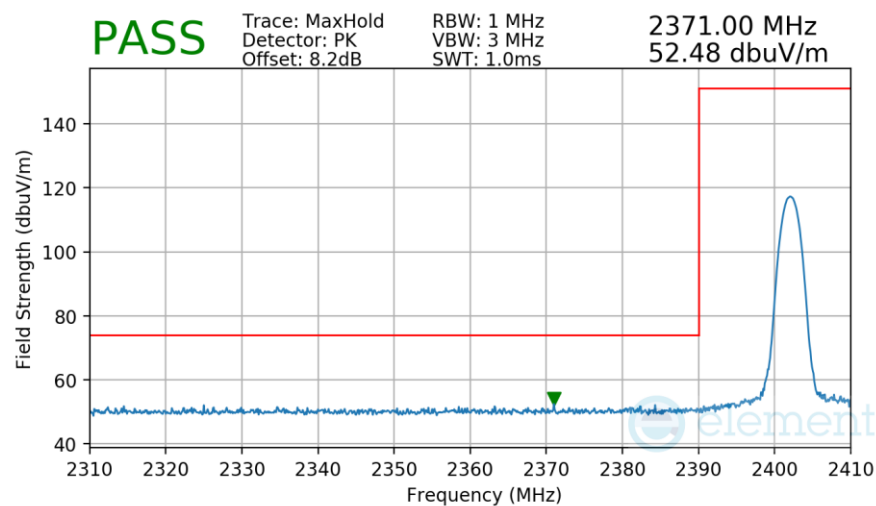
7.9.5 TxBF Radiated Restricted Band Edge Measurements

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



Plot 7-73. Radiated Restricted Lower Band Edge Measurement TxBF

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



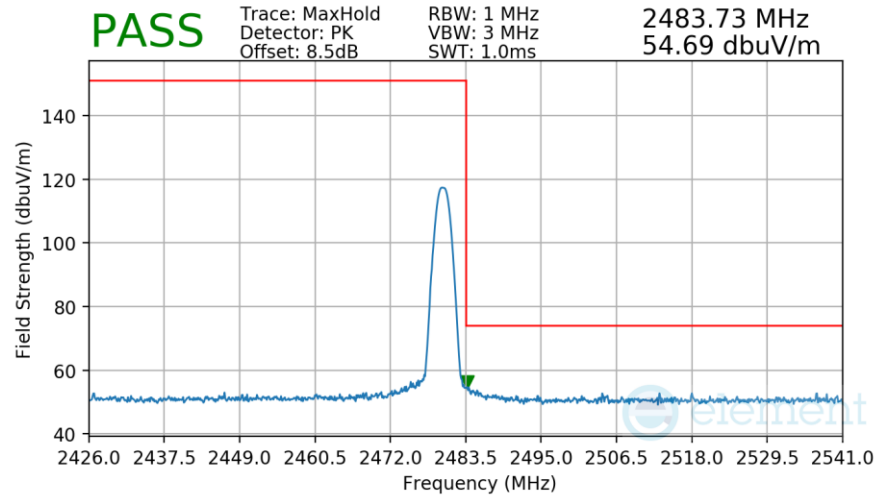
Plot 7-74. Radiated Restricted Lower Band Edge Measurement TxBF

FCC ID: BCGA3361 IC: 579C-A3361		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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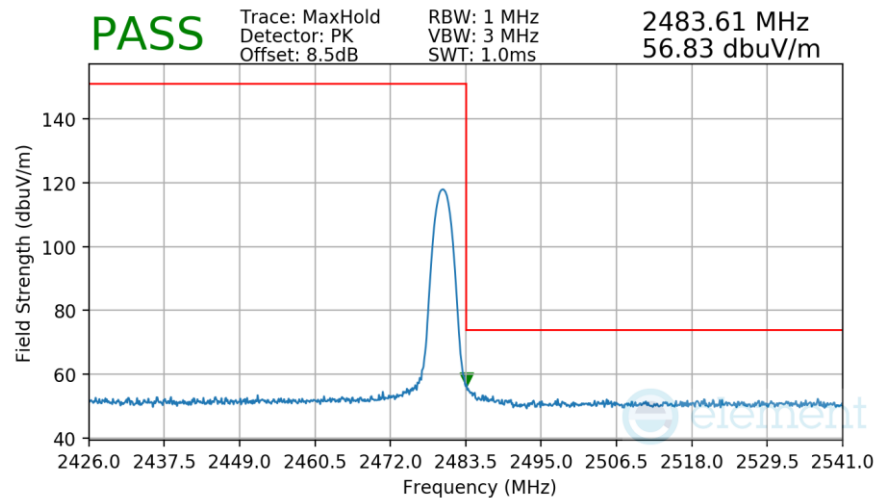
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Bluetooth Mode: GFSK
Power Scheme: ePA
Measurement Distance: 3 Meters
Operating Frequency: 2480MHz
Channel: 78



Plot 7-75. Radiated Restricted Upper Band Edge Measurement TxBF

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



Plot 7-76. Radiated Restricted Upper Band Edge Measurement TxBF

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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 7-20 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 7-20. 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

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Test Setup

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

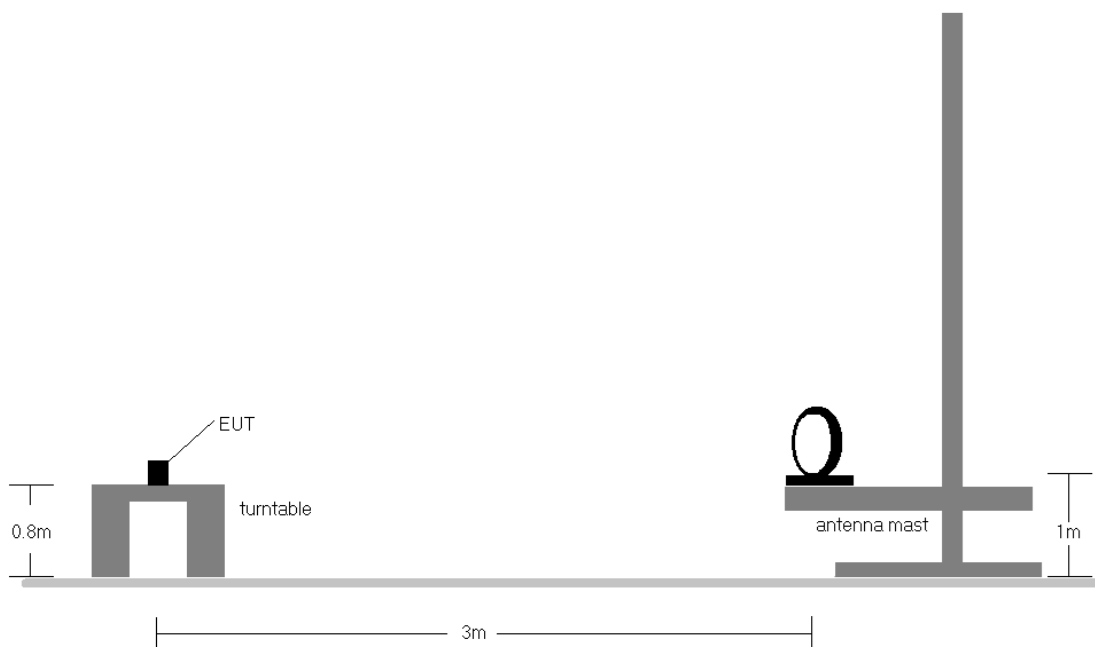


Figure 7-9. Radiated Test Setup < 30MHz

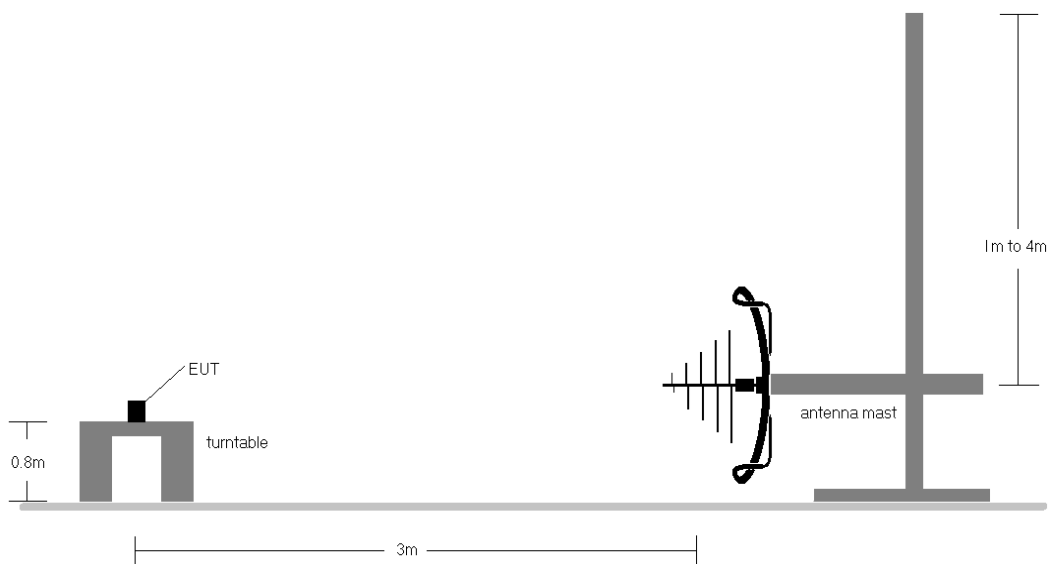


Figure 7-10. Radiated Test Setup < 1GHz

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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 7-20.
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

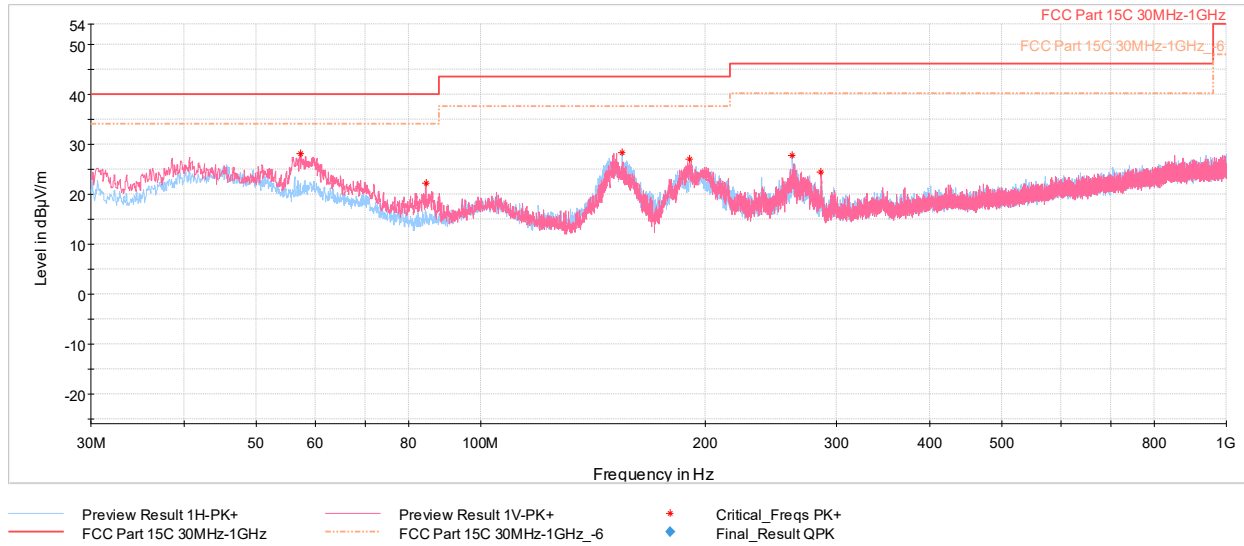
- Field Strength Level $_{[dB\mu V/m]} = \text{Analyzer Level}_{[dBm]} + 107 + \text{AFCL}_{[dB/m]}$
- $\text{AFCL}_{[dB/m]} = \text{Antenna Factor}_{[dB/m]} + \text{Cable Loss}_{[dB]} - \text{Preamplifier Gain}_{[dB]}$
- $\text{Margin}_{[dB]} = \text{Field Strength Level}_{[dB\mu V/m]} - \text{Limit}_{[dB\mu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

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7.10.1 TxBF Radiated Spurious Emissions Measurements (Below 1GHz)



Plot 7-77. 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]
57.26	Max-Peak	V	100	357	-58.20	-16.35	28.09	40.00	-11.91
84.42	Max-Peak	V	100	353	-68.93	-21.47	22.12	40.00	-17.88
154.69	Max-Peak	H	100	181	-66.20	-20.94	28.22	43.52	-15.30
190.73	Max-Peak	V	100	220	-58.22	-18.42	26.94	43.52	-16.58
261.88	Max-Peak	H	100	117	-71.79	-16.24	27.68	46.02	-18.34
286.18	Max-Peak	V	100	125	-78.21	-15.85	24.33	46.02	-21.69

Table 7-21. Radiated Measurements Below 1GHz TxBF (GFSK ePA – Ch.39, with AC/DC Adapter)

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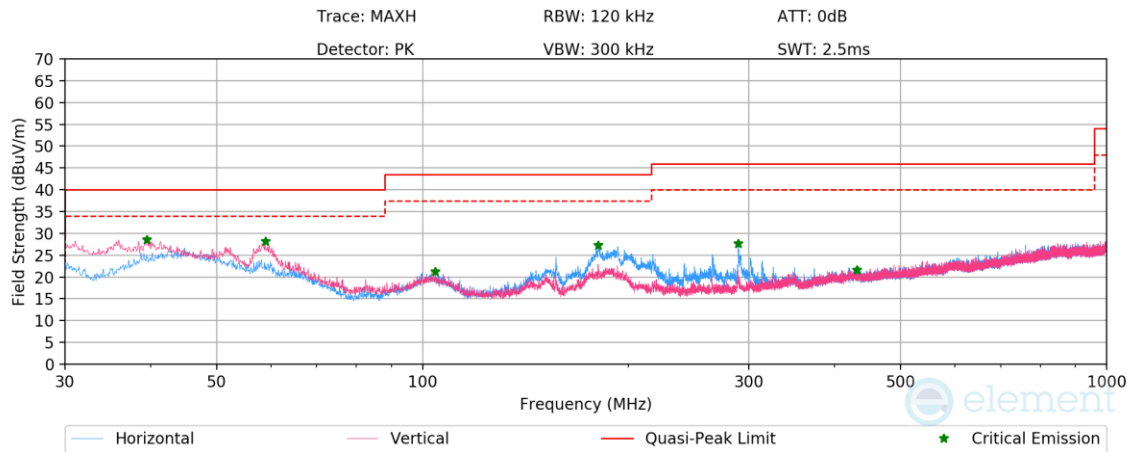
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7.10.2 Simultaneous Tx Radiated Spurious Emission (Below 1GHz)

Description	Bluetooth	UNII
Antenna	Antenna 4a	Antenna 4a
Channel	78	36
Operating Frequency (MHz)	2480	5180
Mode/Modulation	GFSK ePA	802.11n

Table 7-22. Worst Case Simultaneous Transmission Configuration



Plot 7-78. Radiated Spurious Emissions Below 1GHz Simultaneous Transmission (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 [dBuV/m]	Limit [dBuV/m]	Margin [dB]
39.54	Max-Peak	V	100	-	-61.57	-16.81	28.62	40.00	-11.38
58.86	Max-Peak	V	100	-	-62.31	-16.49	28.20	40.00	-11.80
104.28	Max-Peak	H	300	-	-67.89	-17.93	21.18	43.50	-22.32
180.67	Max-Peak	H	100	-	-60.30	-19.42	27.27	43.50	-16.23
289.33	Max-Peak	H	100	-	-63.79	-15.59	27.62	46.00	-18.38
431.06	Max-Peak	V	200	-	-73.17	-12.18	21.66	46.00	-24.34

Table 7-23. Radiated Measurements Below 1GHz Simultaneous Transmission (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 (dBμV)	
	Quasi-peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 – 30	60	50

Table 7-24. 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.

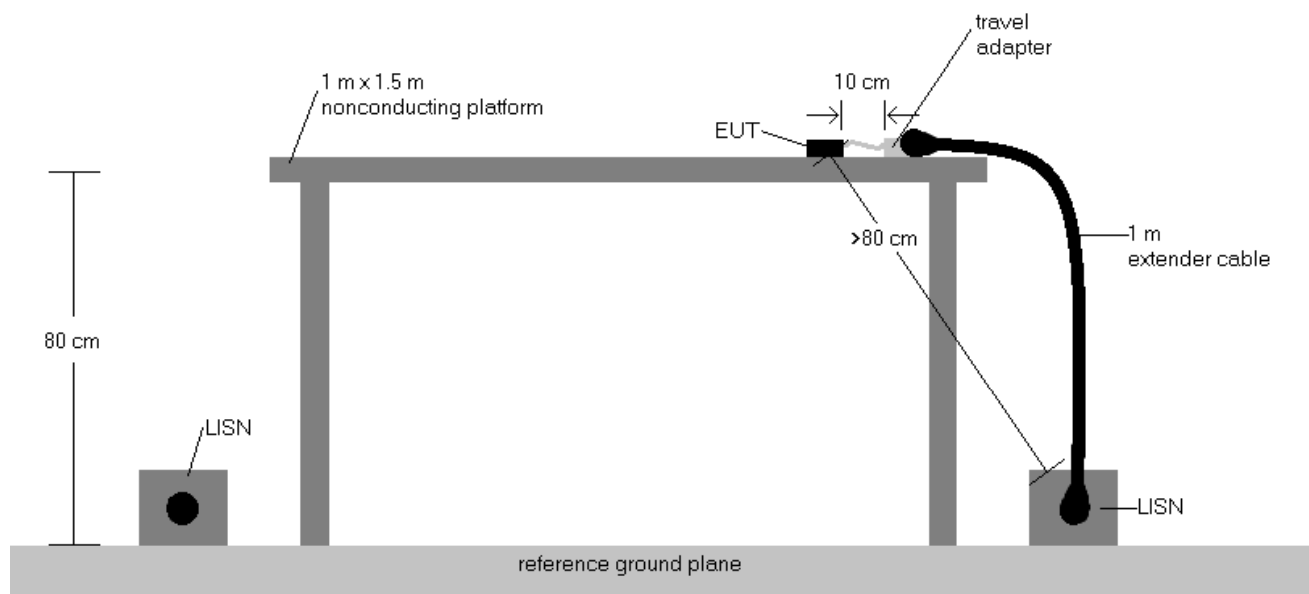


Figure 7-11. Test Instrument & Measurement Setup

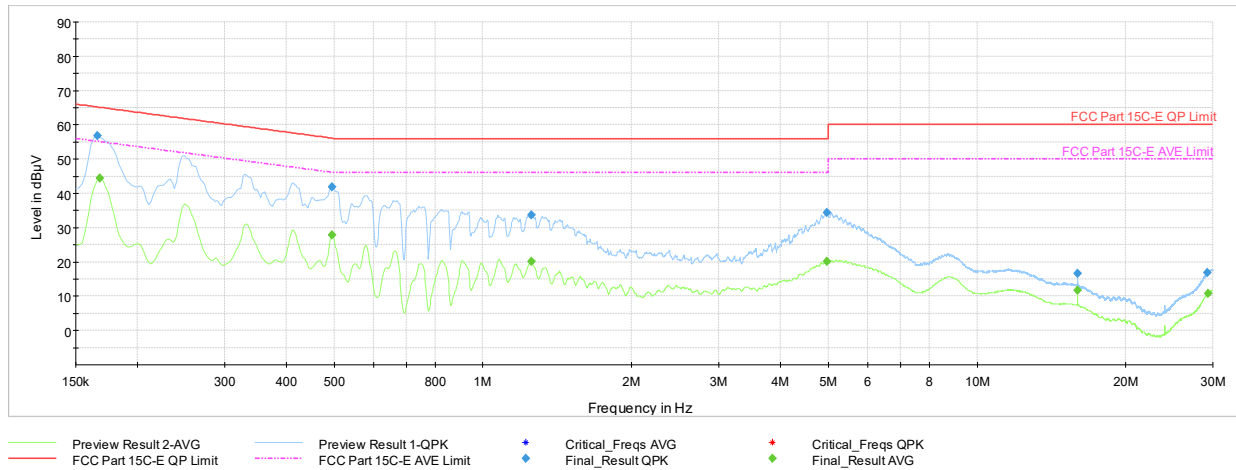
Test Notes

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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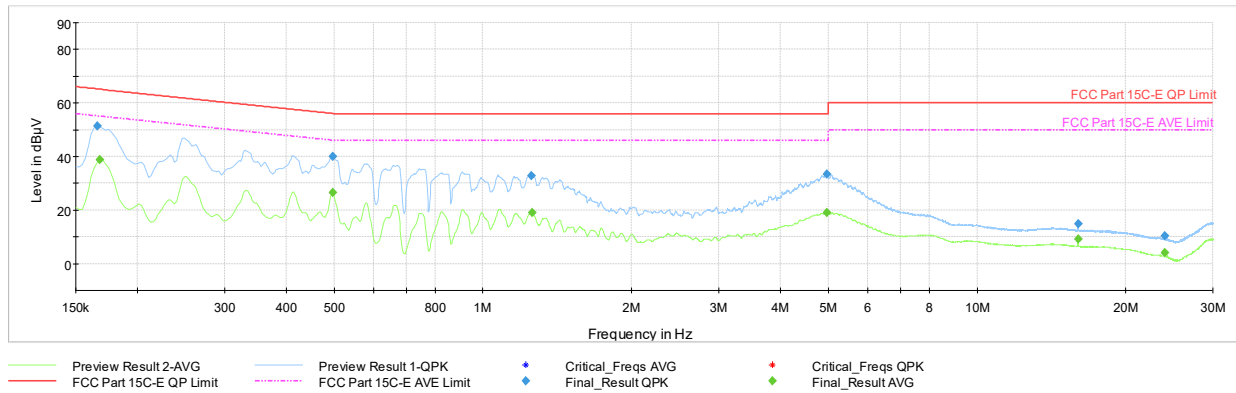


Plot 7-79. AC Line-Conducted Test Plot TxBF (L1, GFSK ePA – Ch.39, with AC/DC Adapter)

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.17	FINAL	56.85	---	65.17	-8.32	L1	GND
0.17	FINAL	---	44.42	55.06	-10.64	L1	GND
0.49	FINAL	---	27.89	46.10	-18.20	L1	GND
0.49	FINAL	41.88	---	56.10	-14.22	L1	GND
1.25	FINAL	---	20.05	46.00	-25.95	L1	GND
1.25	FINAL	33.66	---	56.00	-22.34	L1	GND
4.96	FINAL	34.50	---	56.00	-21.50	L1	GND
4.96	FINAL	---	20.18	46.00	-25.82	L1	GND
15.99	FINAL	16.63	---	60.00	-43.37	L1	GND
15.99	FINAL	---	11.80	50.00	-38.20	L1	GND
29.24	FINAL	16.82	---	60.00	-43.18	L1	GND
29.29	FINAL	---	10.89	50.00	-39.11	L1	GND

Table 7-25. AC Line-Conducted Test Data TxBF (L1, GFSK ePA – Ch.39, with AC/DC Adapter)

FCC ID: BCGA3361 IC: 579C-A3361		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-80. 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
0.17	FINAL	51.47	---	65.17	-13.70	N	GND
0.17	FINAL	---	38.85	55.06	-16.21	N	GND
0.50	FINAL	---	26.55	46.06	-19.51	N	GND
0.50	FINAL	40.03	---	56.06	-16.03	N	GND
1.25	FINAL	32.90	---	56.00	-23.10	N	GND
1.26	FINAL	---	19.16	46.00	-26.84	N	GND
4.97	FINAL	33.39	---	56.00	-22.61	N	GND
4.97	FINAL	---	19.04	46.00	-26.96	N	GND
16.00	FINAL	14.79	---	60.00	-45.21	N	GND
16.00	FINAL	---	9.27	50.00	-40.73	N	GND
24.00	FINAL	---	3.97	50.00	-46.03	N	GND
24.00	FINAL	10.25	---	60.00	-49.75	N	GND

Table 7-26. 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: BCGA3361 and IC: 579C-A3361** 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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