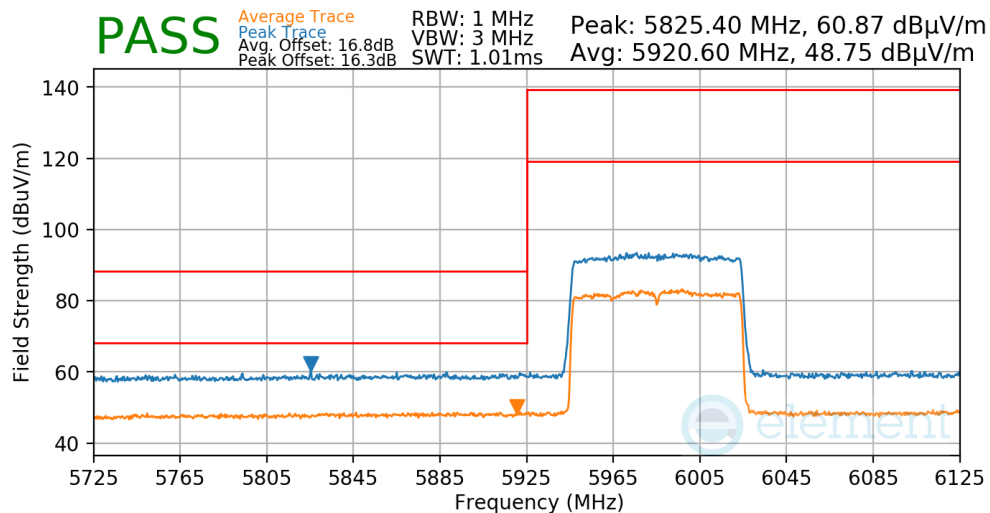


## 7.7.10 Antenna WF5b Radiated Band Edge Measurements (80MHz BW)

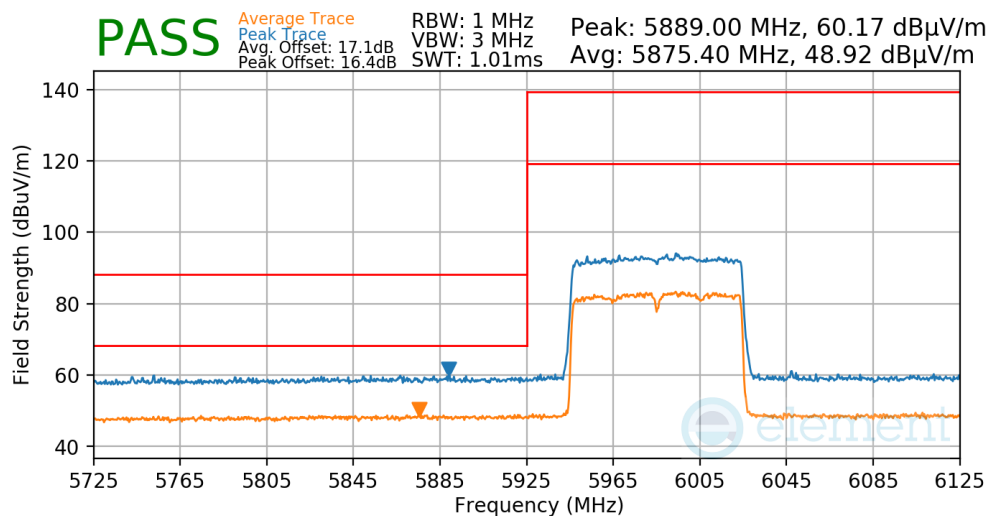
§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

Worst Case Mode: 802.11ax  
Worst Case Transfer Rate: MCS2  
Distance of Measurements: 3 Meters  
Operating Frequency: 5985MHz  
Channel: 7



**Plot 7-701. Antenna WF5b Radiated Lower Band Edge (Peak & Average – UNII Band 5)**

Worst Case Mode: 802.11ax  
Worst Case Transfer Rate: MCS4  
Distance of Measurements: 3 Meters  
Operating Frequency: 5985MHz  
Channel: 7

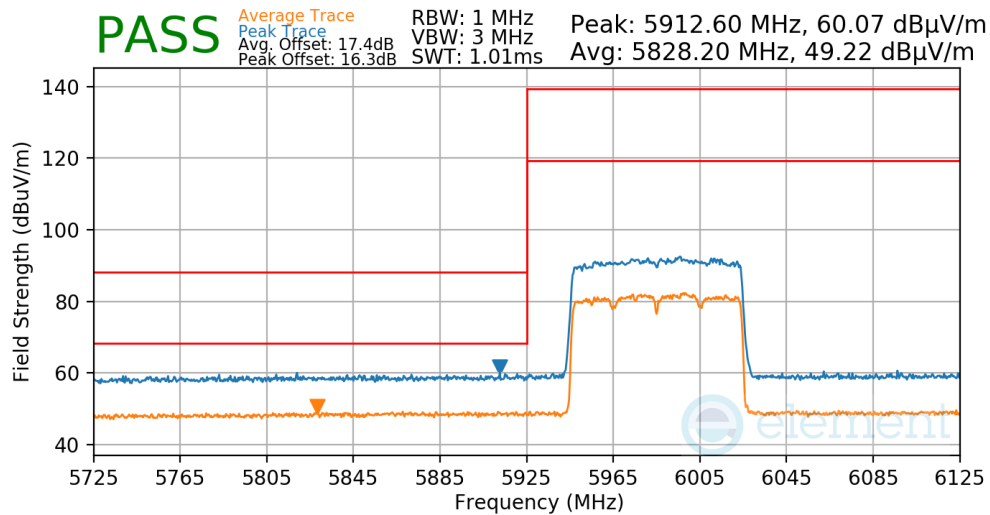


**Plot 7-702. Antenna WF5b Radiated Lower Band Edge (Peak & Average – UNII Band 5)**

FCC ID: BCGA2759 IC: 579C-A2759		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090024-11-R2.BCG	Test Dates: 05/27/2022 - 9/26/2022	EUT Type: Tablet Device	Page 252 of 280

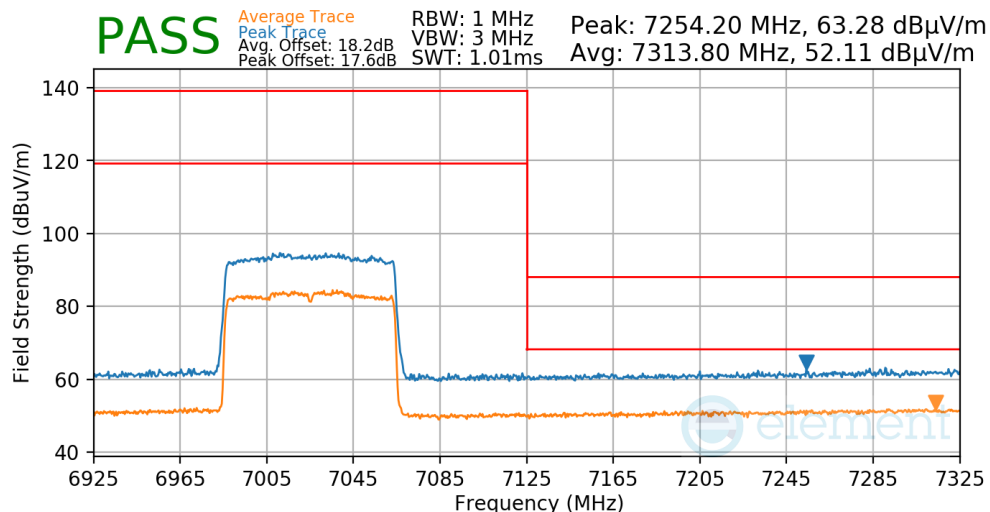
V 10.5 12/15/2021

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS11  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5985MHz  
 Channel: 7



**Plot 7-703. Antenna WF5b Radiated Lower Band Edge (Peak & Average – UNII Band 5)**

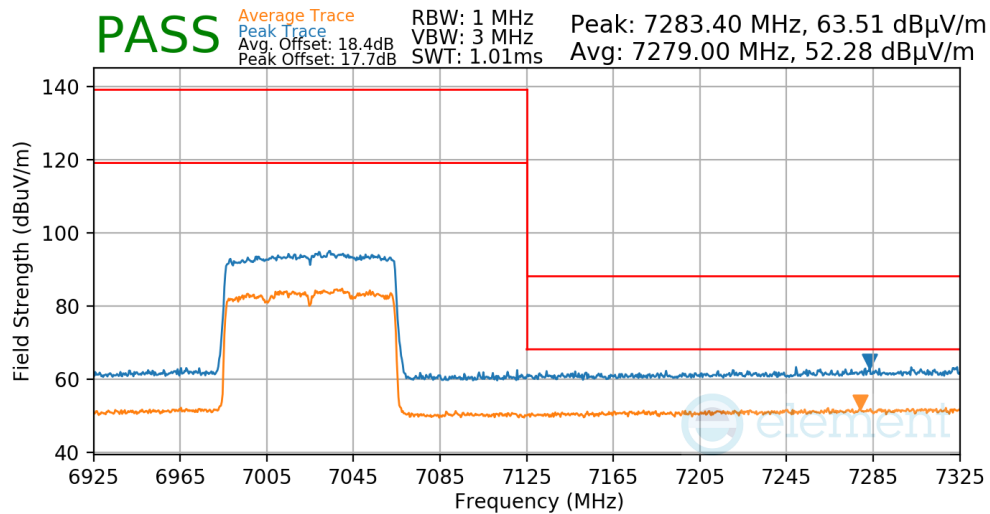
Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS2  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 7025MHz  
 Channel: 215



**Plot 7-704. Antenna WF5b Radiated Upper Band Edge (Peak & Average – UNII Band 8)**

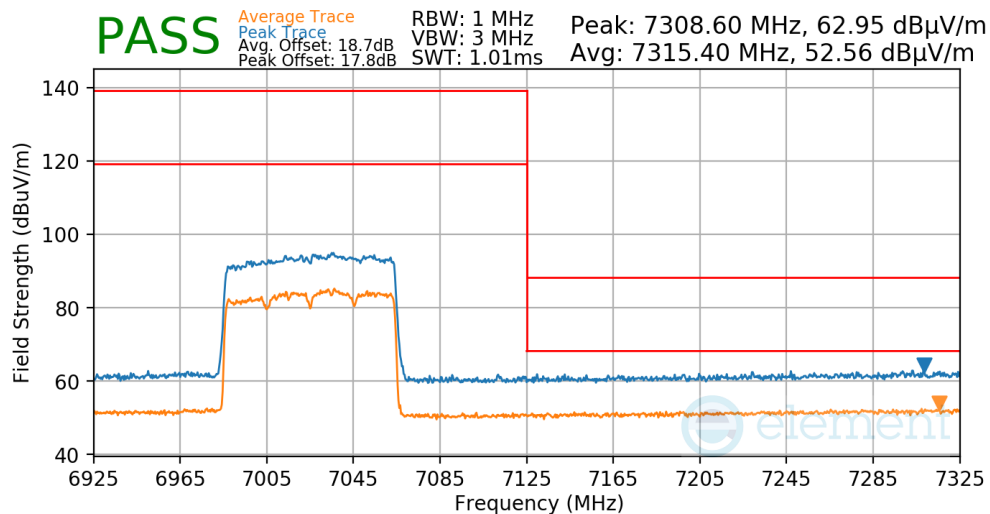
FCC ID: BCGA2759 IC: 579C-A2759		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090024-11-R2.BCG	Test Dates: 05/27/2022 - 9/26/2022	EUT Type: Tablet Device	Page 253 of 280

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS4  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 7025MHz  
 Channel: 215



**Plot 7-705. Antenna WF5b Radiated Upper Band Edge (Peak & Average – UNII Band 8)**

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS11  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 7025MHz  
 Channel: 215

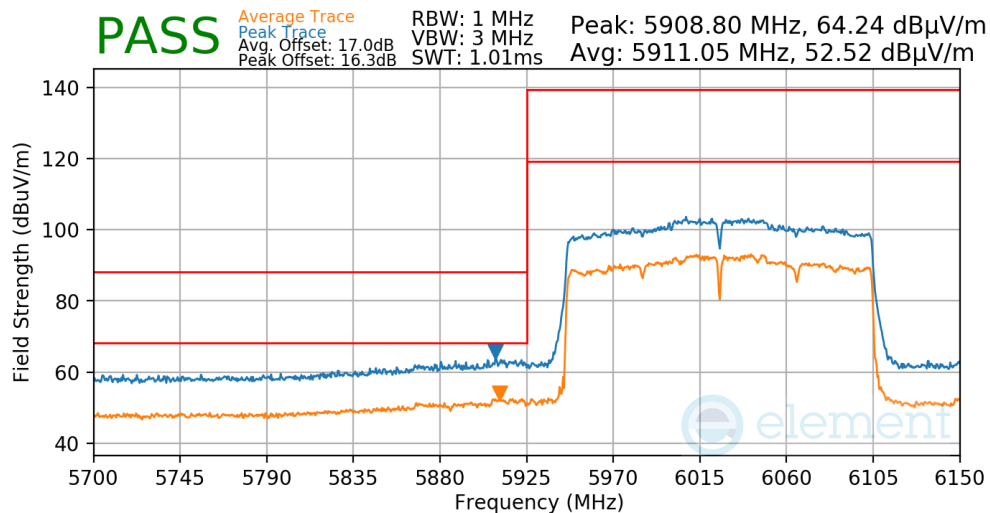


**Plot 7-706. Antenna WF5b Radiated Upper Band Edge (Peak & Average – UNII Band 8)**

FCC ID: BCGA2759 IC: 579C-A2759		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090024-11-R2.BCG	Test Dates: 05/27/2022 - 9/26/2022	EUT Type: Tablet Device	Page 254 of 280

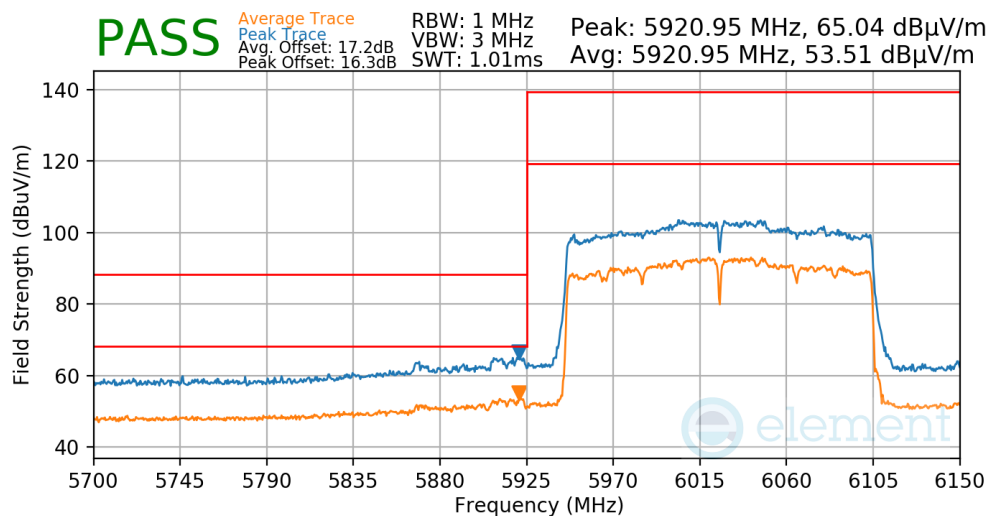
### 7.7.11 Antenna WF5b Radiated Band Edge Measurements (160MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

Worst Case Mode: 802.11ax  
Worst Case Transfer Rate: MCS2  
Distance of Measurements: 3 Meters  
Operating Frequency: 6025MHz  
Channel: 15



**Plot 7-707. Antenna WF5b Radiated Lower Band Edge (Peak & Average – UNII Band 5)**

Worst Case Mode: 802.11ax  
Worst Case Transfer Rate: MCS4  
Distance of Measurements: 3 Meters  
Operating Frequency: 6025MHz  
Channel: 15

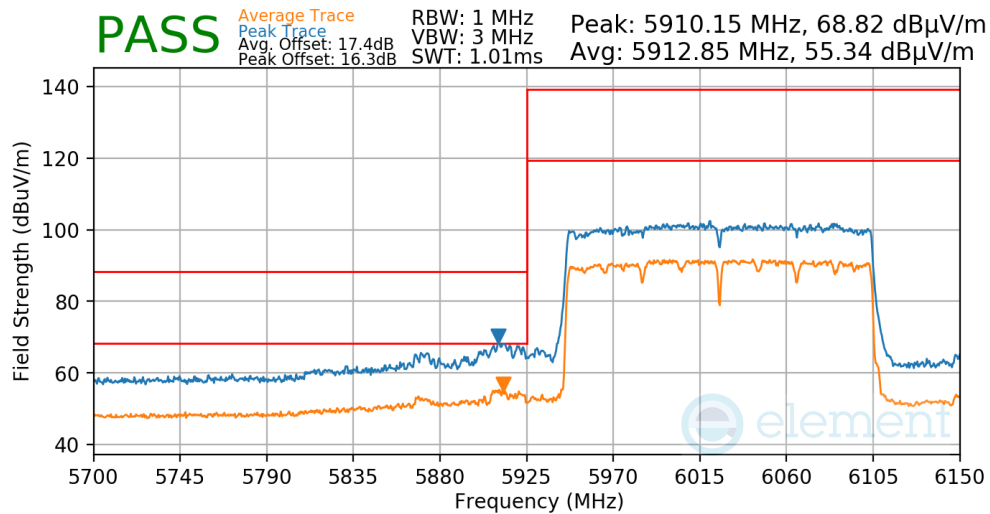


**Plot 7-708. Antenna WF5b Radiated Lower Band Edge (Peak & Average – UNII Band 5)**

FCC ID: BCGA2759 IC: 579C-A2759		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090024-11-R2.BCG	Test Dates: 05/27/2022 - 9/26/2022	EUT Type: Tablet Device	Page 255 of 280

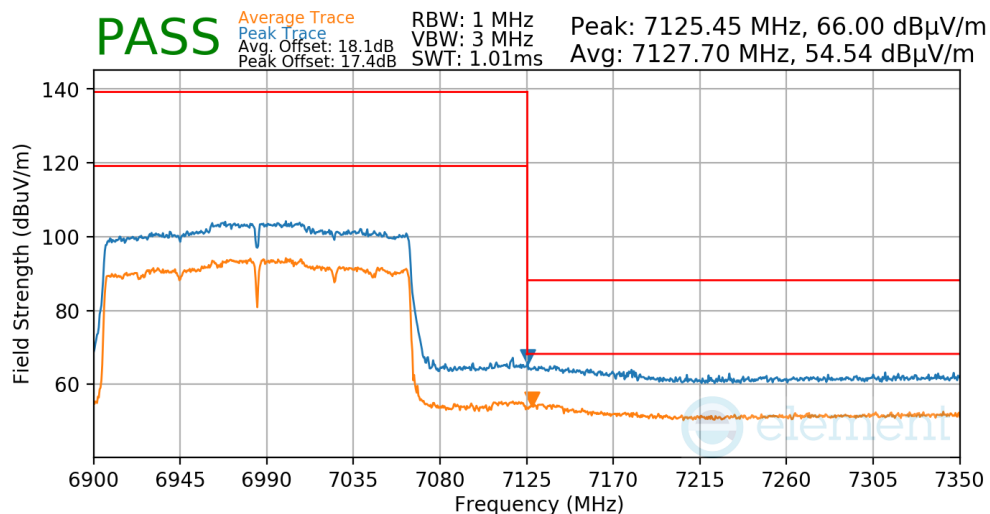
V 10.5 12/15/2021

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS11  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 6025MHz  
 Channel: 15



**Plot 7-709. Antenna WF5b Radiated Lower Band Edge (Peak & Average – UNII Band 5)**

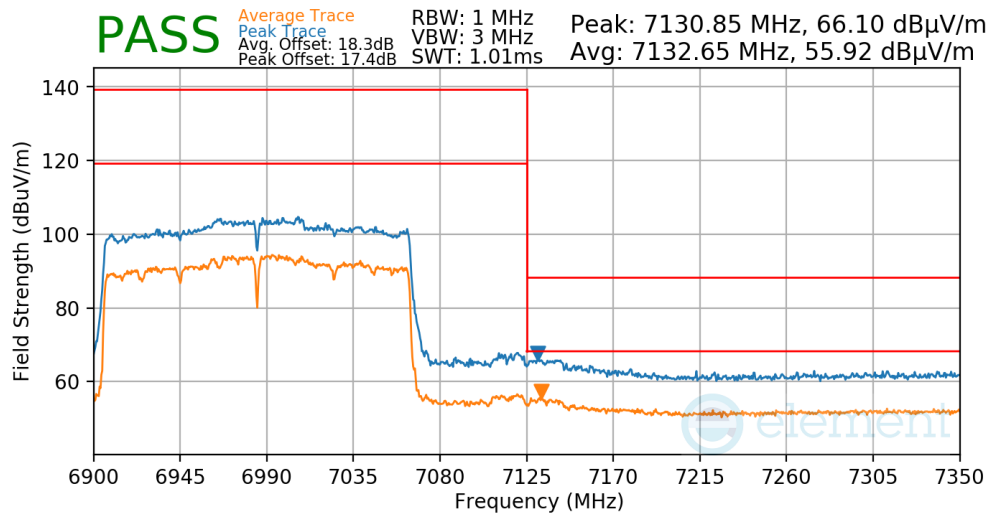
Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS2  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 6985MHz  
 Channel: 207



**Plot 7-710. Antenna WF5b Radiated Upper Band Edge (Peak & Average – UNII Band 8)**

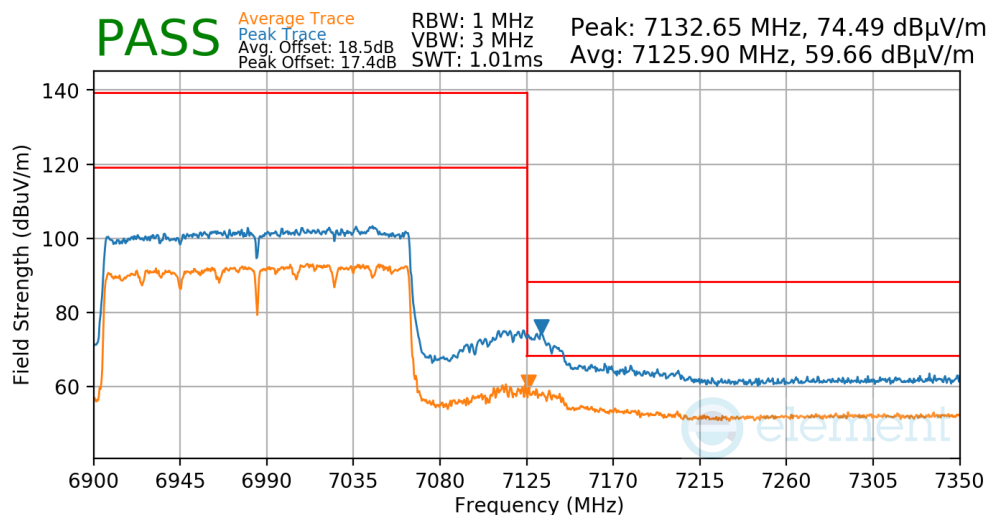
FCC ID: BCGA2759 IC: 579C-A2759		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090024-11-R2.BCG	Test Dates: 05/27/2022 - 9/26/2022	EUT Type: Tablet Device	Page 256 of 280

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS4  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 6985MHz  
 Channel: 207



**Plot 7-711. Antenna WF5b Radiated Upper Band Edge (Peak & Average – UNII Band 8)**

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS11  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 6985MHz  
 Channel: 207



**Plot 7-712. Antenna WF5b Radiated Upper Band Edge (Peak & Average – UNII Band 8)**

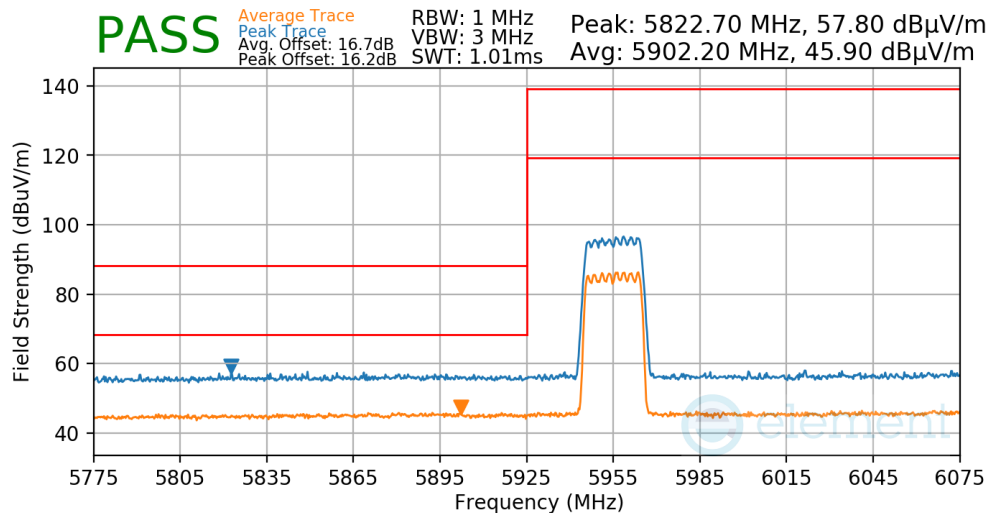
FCC ID: BCGA2759 IC: 579C-A2759		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090024-11-R2.BCG	Test Dates: 05/27/2022 - 9/26/2022	EUT Type: Tablet Device	Page 257 of 280

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## 7.7.12 SDM Radiated Band Edge Measurements (20MHz BW)

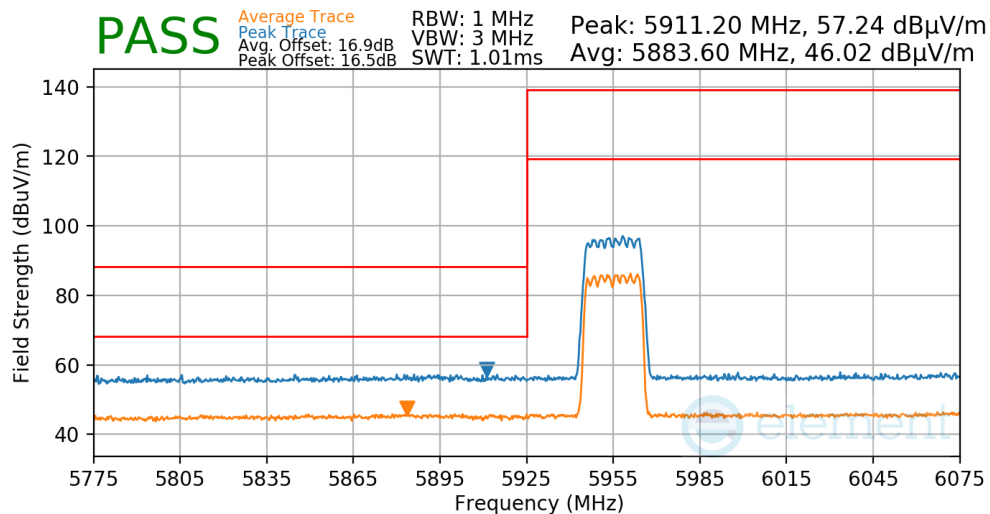
§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]; RSS-Gen [8.9]

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS2
Distance of Measurements:	3 Meters
Operating Frequency:	5955MHz
Channel:	1



**Plot 7-713. SDM Radiated Lower Band Edge (Peak/Average – UNII Band 5)**

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS4
Distance of Measurements:	3 Meters
Operating Frequency:	5955MHz
Channel:	1

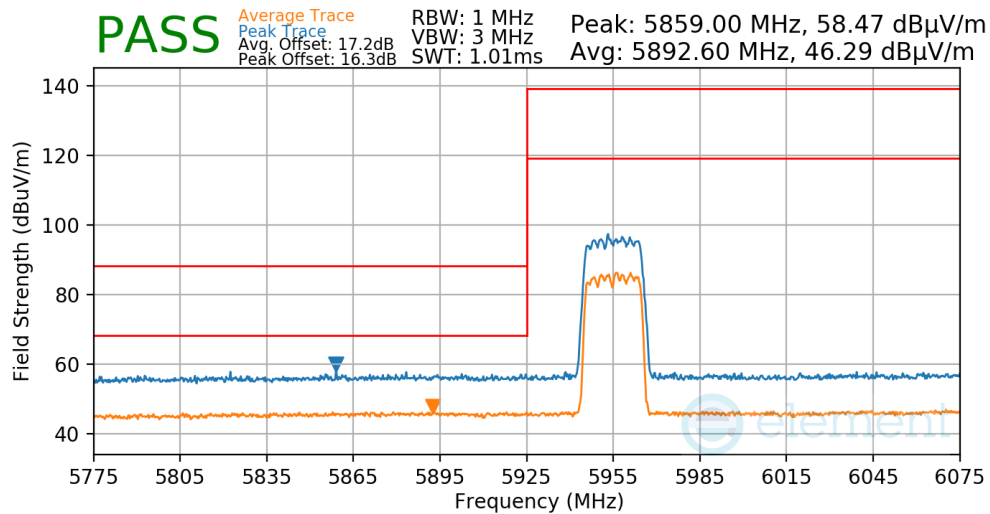


**Plot 7-714. SDM Radiated Lower Band Edge (Peak/Average – UNII Band 5)**

FCC ID: BCGA2759 IC: 579C-A2759		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090024-11-R2.BCG	Test Dates: 05/27/2022 - 9/26/2022	EUT Type: Tablet Device	Page 258 of 280

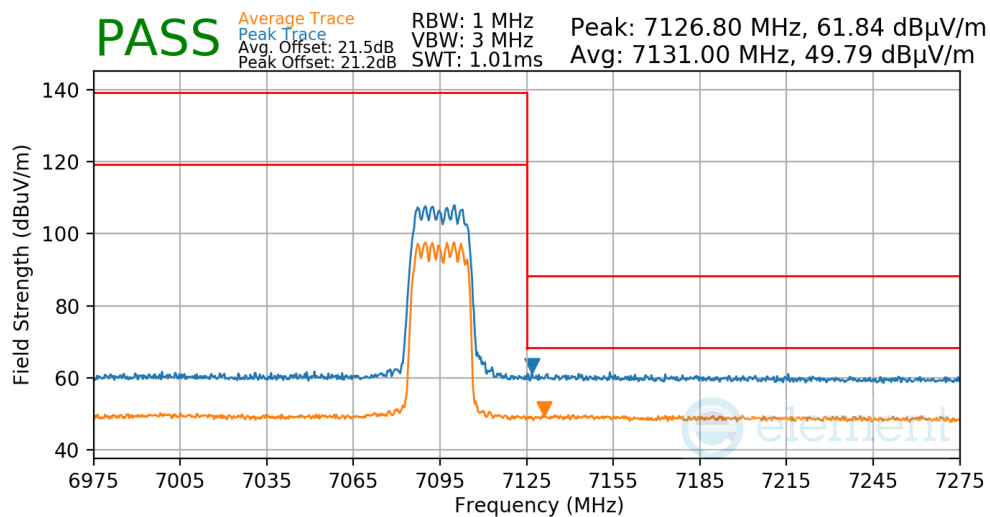
V 10.5 12/15/2021

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS11  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5955MHz  
 Channel: 1



**Plot 7-715. SDM Radiated Lower Band Edge (Peak/Average – UNII Band 5)**

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS2  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 7095MHz  
 Channel: 229

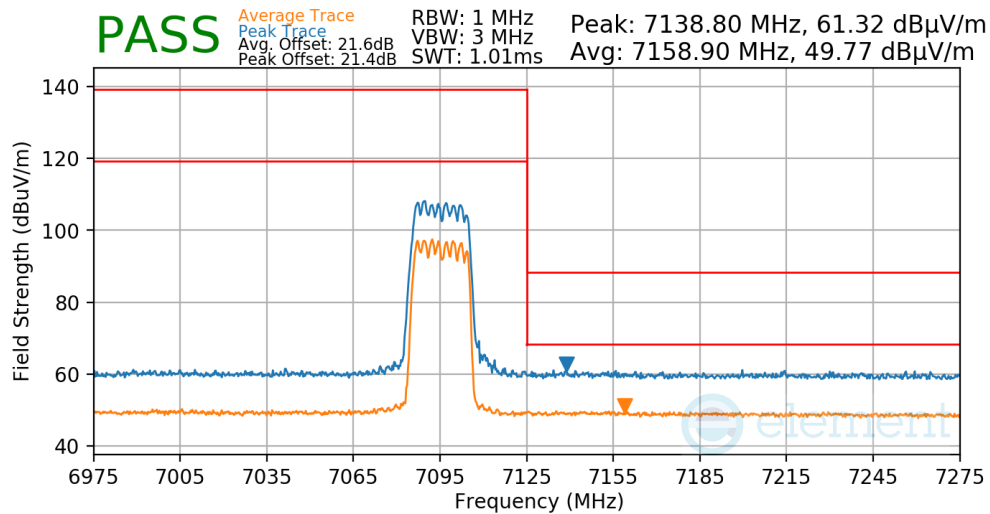


**Plot 7-716. SDM Radiated Upper Band Edge (Peak/Average – UNII Band 8)**

FCC ID: BCGA2759 IC: 579C-A2759		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090024-11-R2.BCG	Test Dates: 05/27/2022 - 9/26/2022	EUT Type: Tablet Device	Page 259 of 280

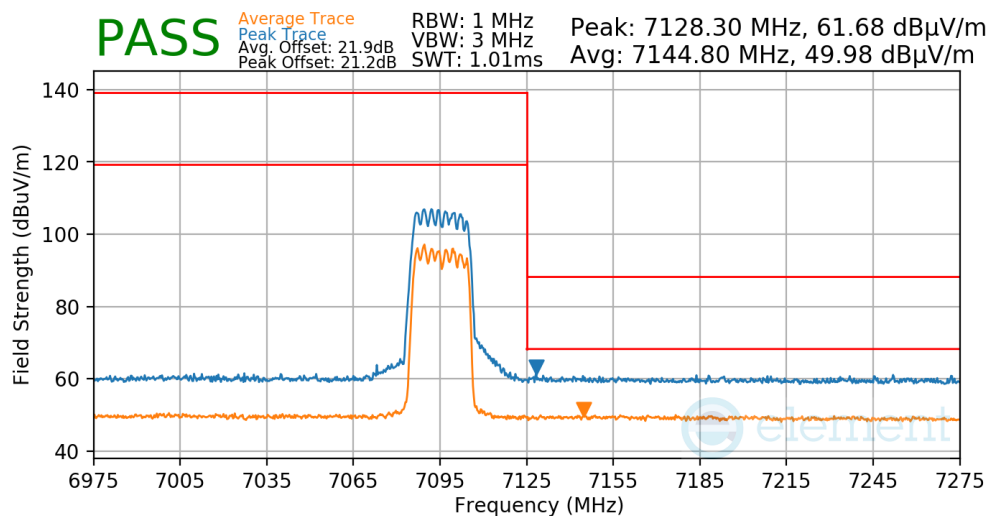


Worst Case Mode: 802.11ax  
Worst Case Transfer Rate: MCS4  
Distance of Measurements: 3 Meters  
Operating Frequency: 7095MHz  
Channel: 229



**Plot 7-717. SDM Radiated Upper Band Edge (Peak/Average – UNII Band 8)**

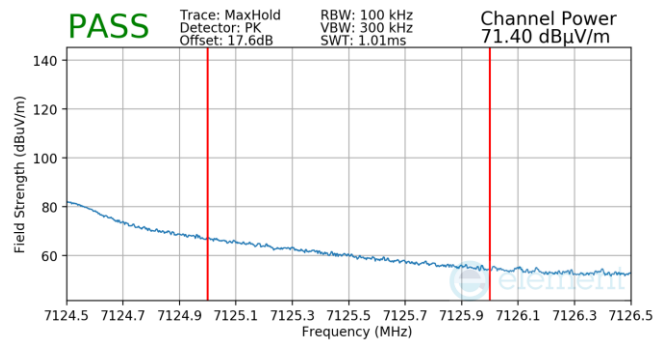
Worst Case Mode: 802.11ax  
Worst Case Transfer Rate: MCS11  
Distance of Measurements: 3 Meters  
Operating Frequency: 7095MHz  
Channel: 229



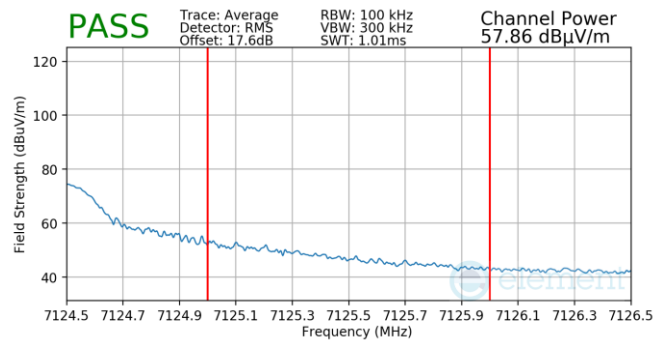
**Plot 7-718. SDM Radiated Upper Band Edge (Peak/Average – UNII Band 8)**

FCC ID: BCGA2759 IC: 579C-A2759		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090024-11-R2.BCG	Test Dates: 05/27/2022 - 9/26/2022	EUT Type: Tablet Device	Page 260 of 280

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS2  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 7115MHz  
 Channel: 233

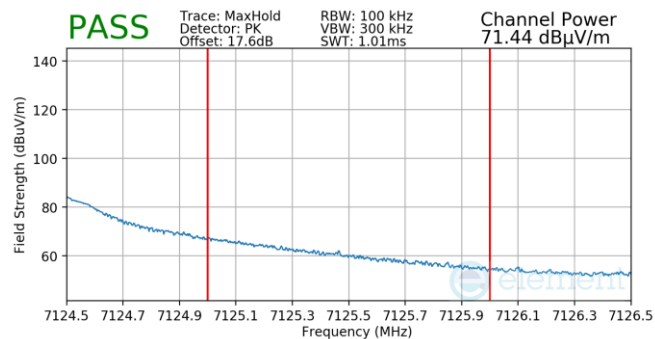


**Plot 7-719. SDM Radiated Lower Band Edge (Peak – UNII Band 8)**

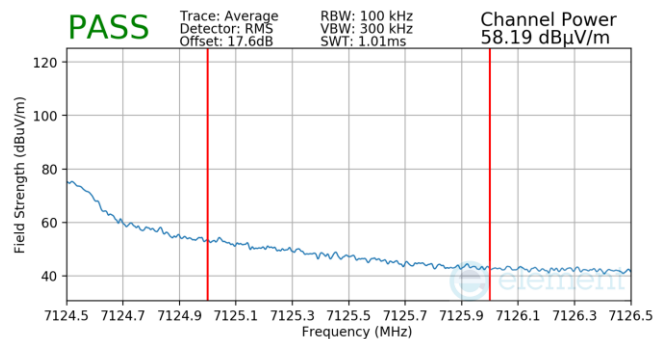


**Plot 7-720. SDM Radiated Lower Band Edge (Average – UNII Band 8)**

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS4  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 7115MHz  
 Channel: 233



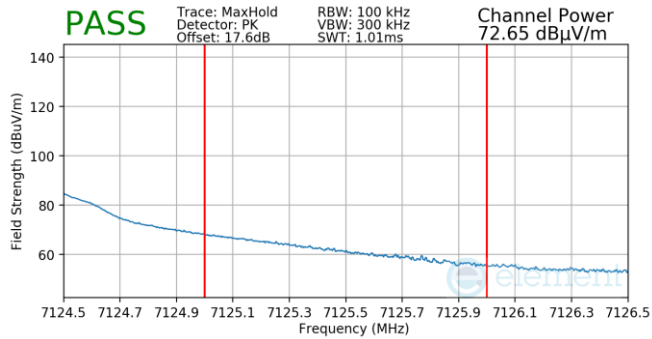
**Plot 7-721. SDM Radiated Lower Band Edge (Peak – UNII Band 8)**



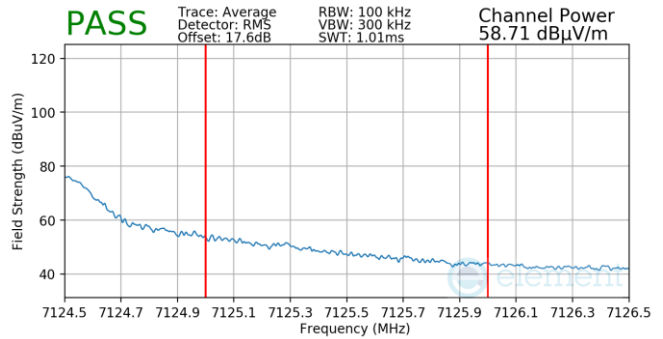
**Plot 7-722. SDM Radiated Lower Band Edge (Average – UNII Band 8)**

FCC ID: BCGA2759 IC: 579C-A2759		<b>MEASUREMENT REPORT (CERTIFICATION)</b>	<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1C2205090024-11-R2.BCG	<b>Test Dates:</b> 05/27/2022 - 9/26/2022	<b>EUT Type:</b> Tablet Device	Page 261 of 280

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS11  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 7115MHz  
 Channel: 233



**Plot 7-723. SDM Radiated Lower Band Edge (Peak – UNII Band 8)**



**Plot 7-724. SDM Radiated Lower Band Edge (Average – UNII Band 8)**

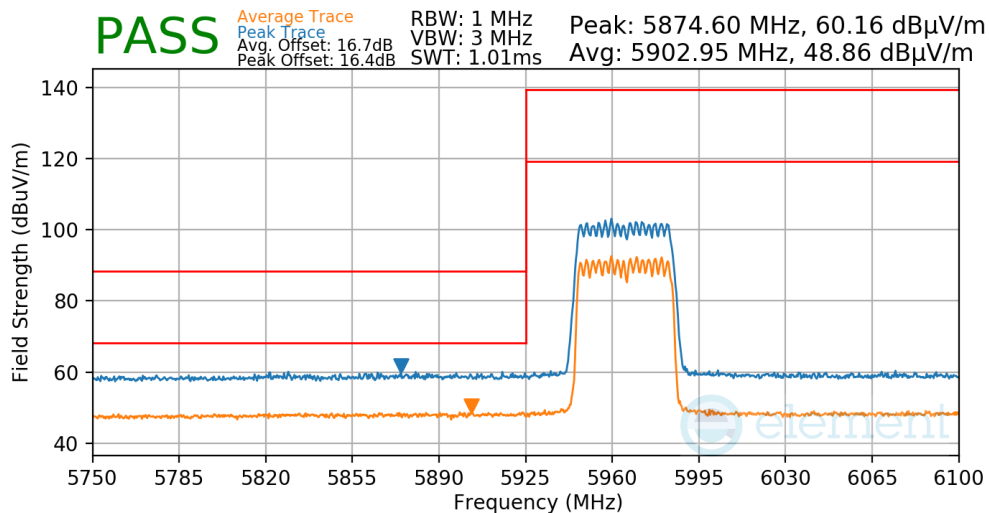
FCC ID: BCGA2759 IC: 579C-A2759	 <b>MEASUREMENT REPORT (CERTIFICATION)</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1C2205090024-11-R2.BCG	<b>Test Dates:</b> 05/27/2022 - 9/26/2022	<b>EUT Type:</b> Tablet Device	Page 262 of 280

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### 7.7.13 SDM Radiated Band Edge Measurements (40MHz BW)

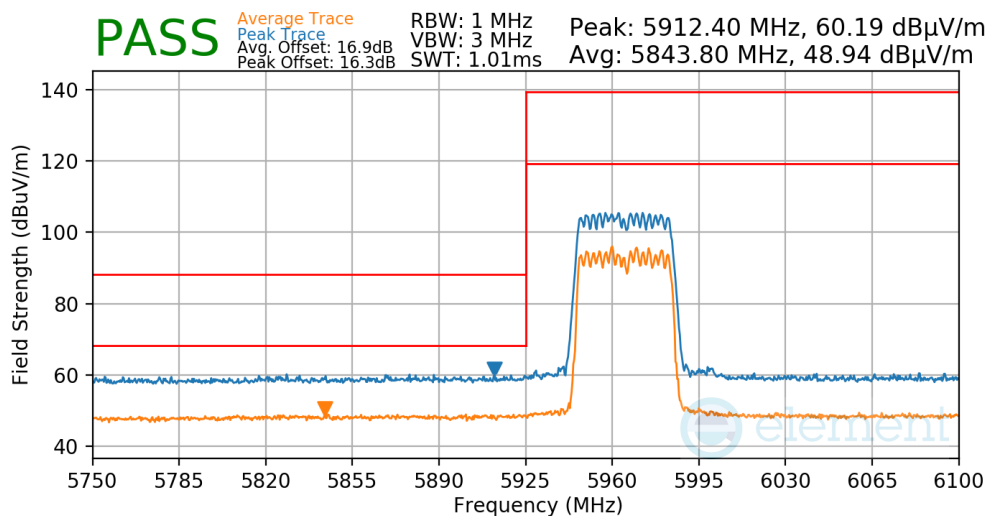
§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS2
Distance of Measurements:	3 Meters
Operating Frequency:	5965MHz
Channel:	3



**Plot 7-725. SDM Radiated Lower Band Edge (Peak & Average – UNII Band 5)**

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS4
Distance of Measurements:	3 Meters
Operating Frequency:	5965MHz
Channel:	3

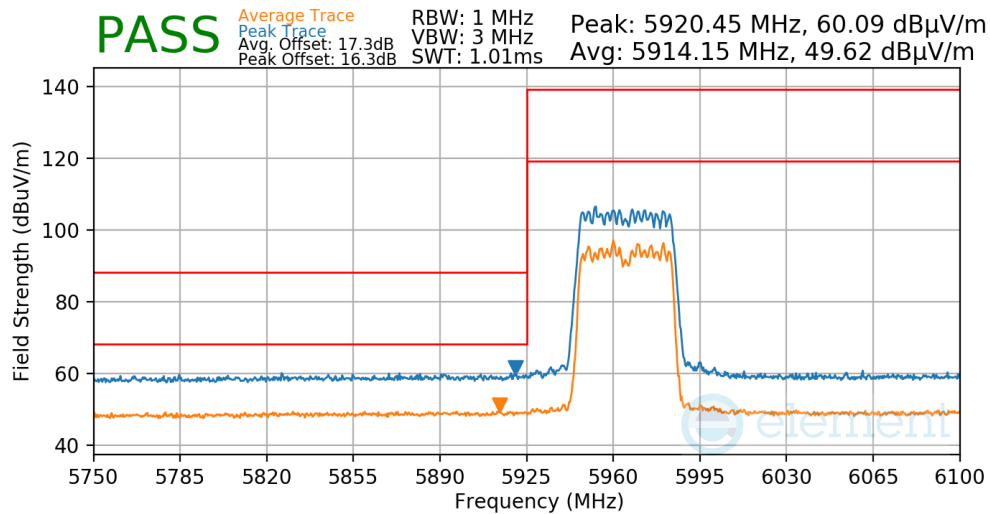


**Plot 7-726. SDM Radiated Lower Band Edge (Peak & Average – UNII Band 5)**

FCC ID: BCGA2759 IC: 579C-A2759		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090024-11-R2.BCG	Test Dates: 05/27/2022 - 9/26/2022	EUT Type: Tablet Device	Page 263 of 280

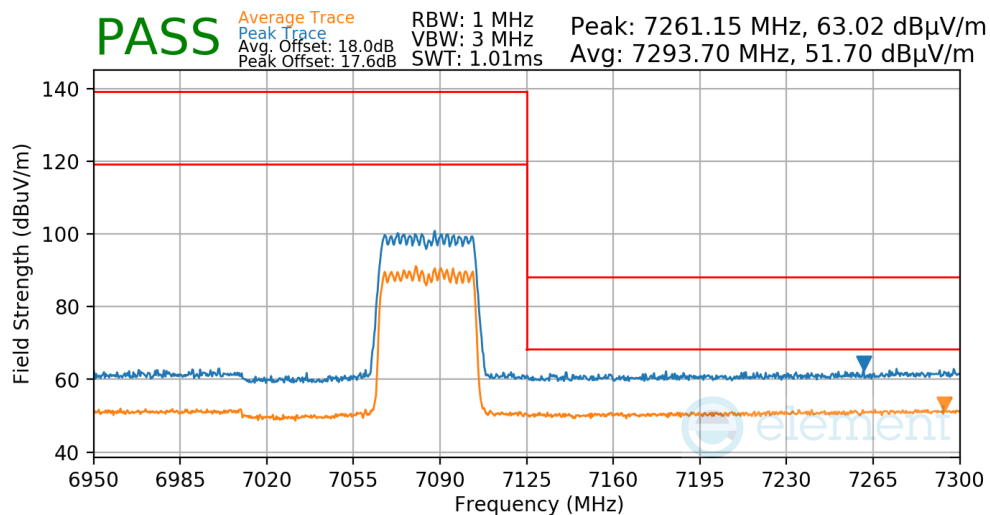
V 10.5 12/15/2021

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS11  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5965MHz  
 Channel: 3



**Plot 7-727. SDM Radiated Lower Band Edge (Peak & Average – UNII Band 5)**

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS2  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 7085MHz  
 Channel: 227

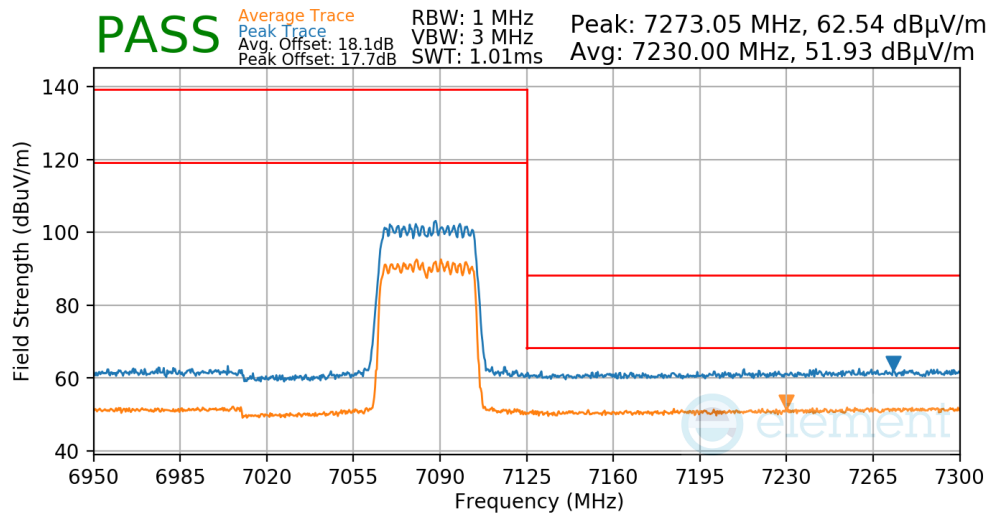


**Plot 7-728. SDM Radiated Upper Band Edge (Peak & Average – UNII Band 8)**

FCC ID: BCGA2759 IC: 579C-A2759	 <b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Technical Manager
Test Report S/N: 1C2205090024-11-R2.BCG	Test Dates: 05/27/2022 - 9/26/2022	EUT Type: Tablet Device	Page 264 of 280

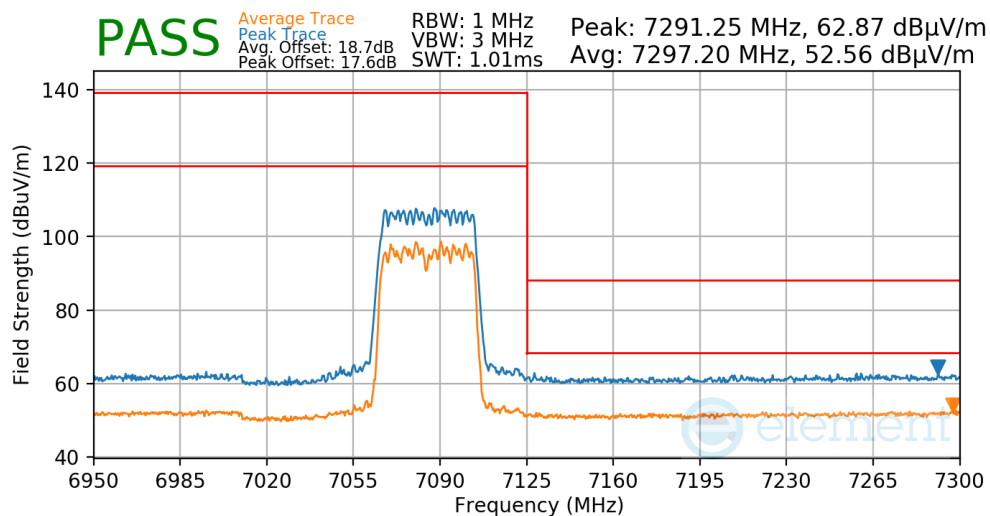
V 10.5 12/15/2021

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS4  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 7085MHz  
 Channel: 227



**Plot 7-729. SDM Radiated Upper Band Edge (Peak & Average – UNII Band 8)**

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS11  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 7085MHz  
 Channel: 227



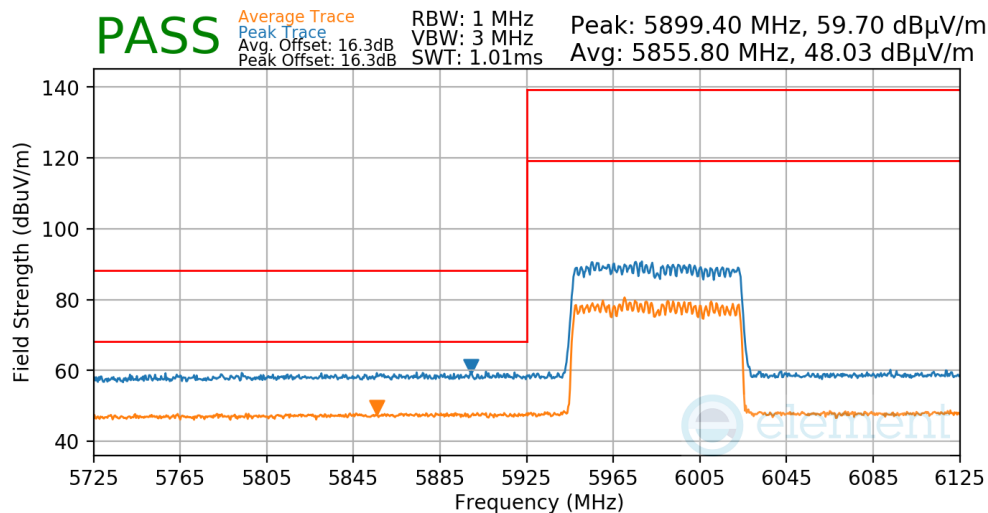
**Plot 7-730. SDM Radiated Upper Band Edge (Peak & Average – UNII Band 8)**

FCC ID: BCGA2759 IC: 579C-A2759		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090024-11-R2.BCG	Test Dates: 05/27/2022 - 9/26/2022	EUT Type: Tablet Device	Page 265 of 280

## 7.7.14 SDM Radiated Band Edge Measurements (80MHz BW)

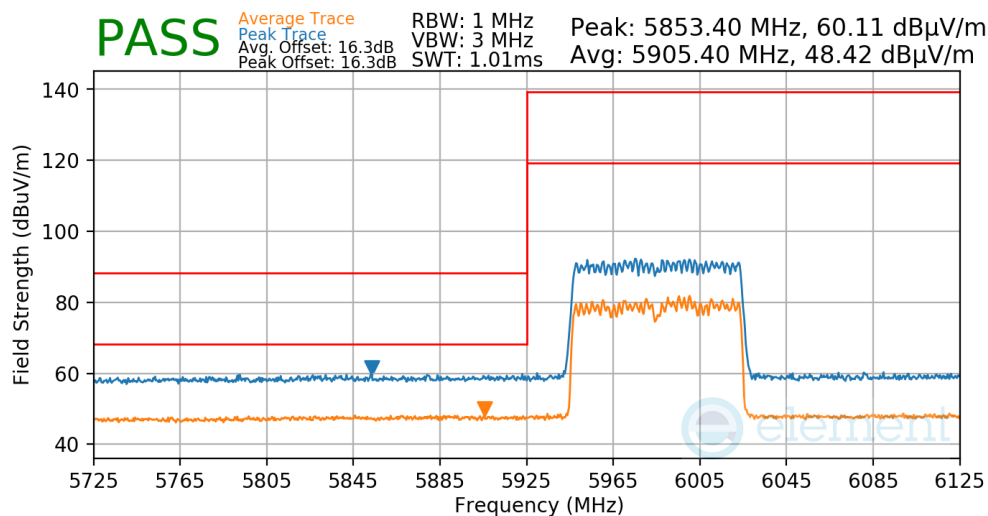
§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS2
Distance of Measurements:	3 Meters
Operating Frequency:	5985MHz
Channel:	7



**Plot 7-731. SDM Radiated Lower Band Edge (Peak & Average – UNII Band 5)**

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS4
Distance of Measurements:	3 Meters
Operating Frequency:	5985MHz
Channel:	7

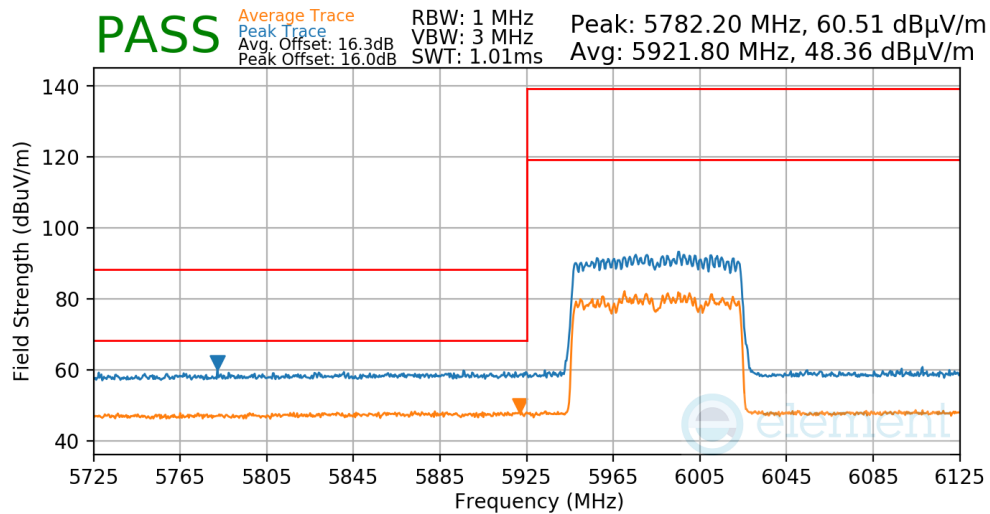


**Plot 7-732. SDM Radiated Lower Band Edge (Peak & Average – UNII Band 5)**

FCC ID: BCGA2759 IC: 579C-A2759		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090024-11-R2.BCG	Test Dates: 05/27/2022 - 9/26/2022	EUT Type: Tablet Device	Page 266 of 280

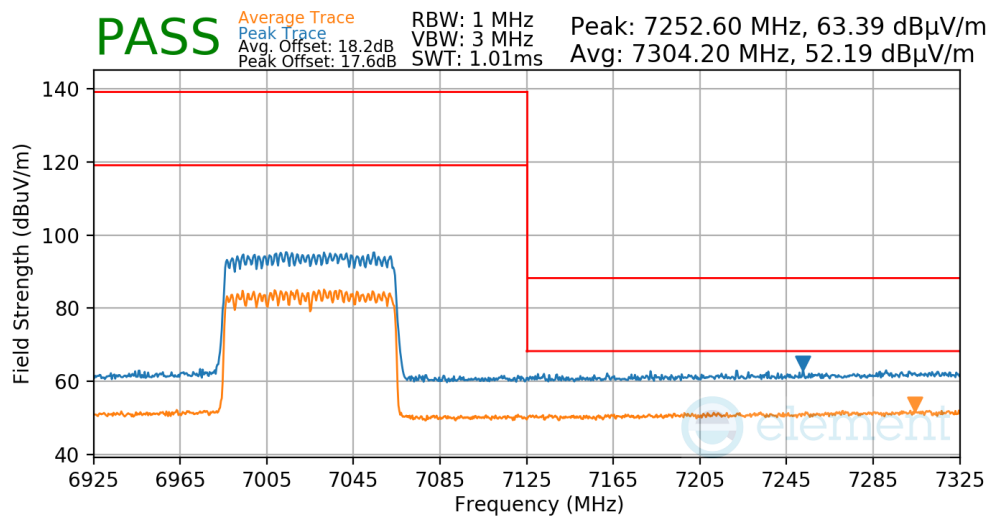
V 10.5 12/15/2021

Worst Case Mode: 802.11ax  
Worst Case Transfer Rate: MCS11  
Distance of Measurements: 3 Meters  
Operating Frequency: 5985MHz  
Channel: 7



**Plot 7-733. SDM Radiated Lower Band Edge (Peak & Average – UNII Band 5)**

Worst Case Mode: 802.11ax  
Worst Case Transfer Rate: MCS2  
Distance of Measurements: 3 Meters  
Operating Frequency: 7025MHz  
Channel: 215



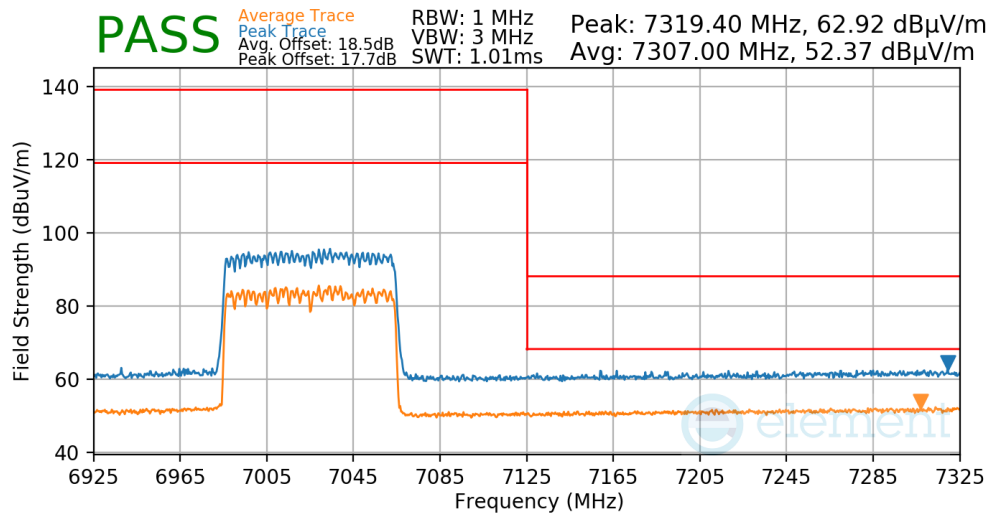
**Plot 7-734. SDM Radiated Upper Band Edge (Peak & Average – UNII Band 8)**

FCC ID: BCGA2759 IC: 579C-A2759		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090024-11-R2.BCG	Test Dates: 05/27/2022 - 9/26/2022	EUT Type: Tablet Device	Page 267 of 280

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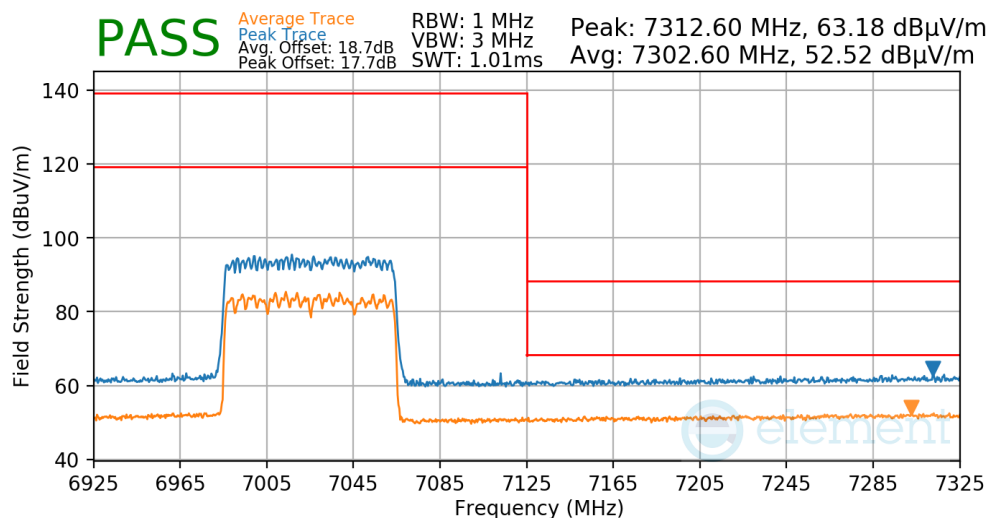


Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS4  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 7025MHz  
 Channel: 215



**Plot 7-735. SDM Radiated Upper Band Edge (Peak & Average – UNII Band 8)**

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS11  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 7025MHz  
 Channel: 215



**Plot 7-736. SDM Radiated Upper Band Edge (Peak & Average – UNII Band 8)**

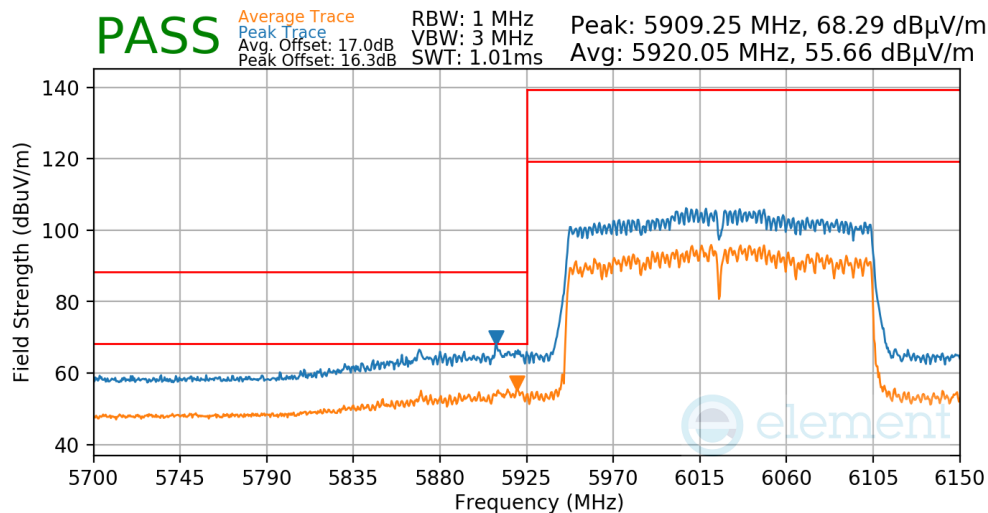
FCC ID: BCGA2759 IC: 579C-A2759		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090024-11-R2.BCG	Test Dates: 05/27/2022 - 9/26/2022	EUT Type: Tablet Device	Page 268 of 280

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## 7.7.15 SDM Radiated Band Edge Measurements (160MHz BW)

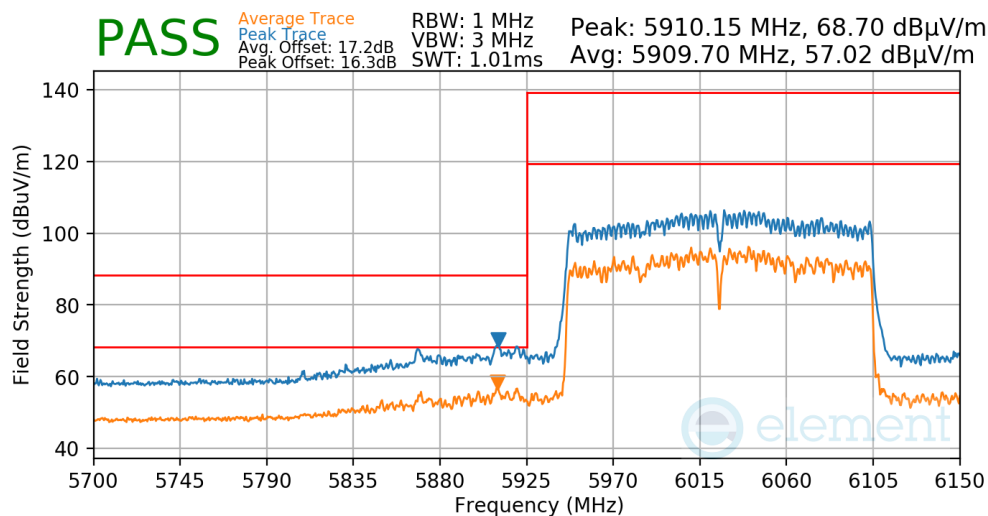
§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS2
Distance of Measurements:	3 Meters
Operating Frequency:	6025MHz
Channel:	15



**Plot 7-737. SDM Radiated Lower Band Edge (Peak & Average – UNII Band 5)**

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS4
Distance of Measurements:	3 Meters
Operating Frequency:	6025MHz
Channel:	15

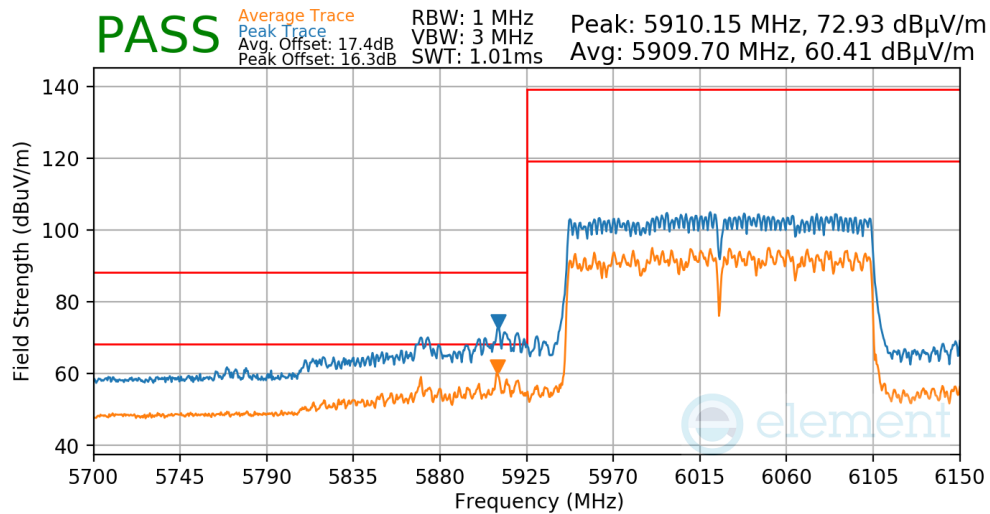


**Plot 7-738. SDM Radiated Lower Band Edge (Peak & Average – UNII Band 5)**

FCC ID: BCGA2759 IC: 579C-A2759		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090024-11-R2.BCG	Test Dates: 05/27/2022 - 9/26/2022	EUT Type: Tablet Device	Page 269 of 280

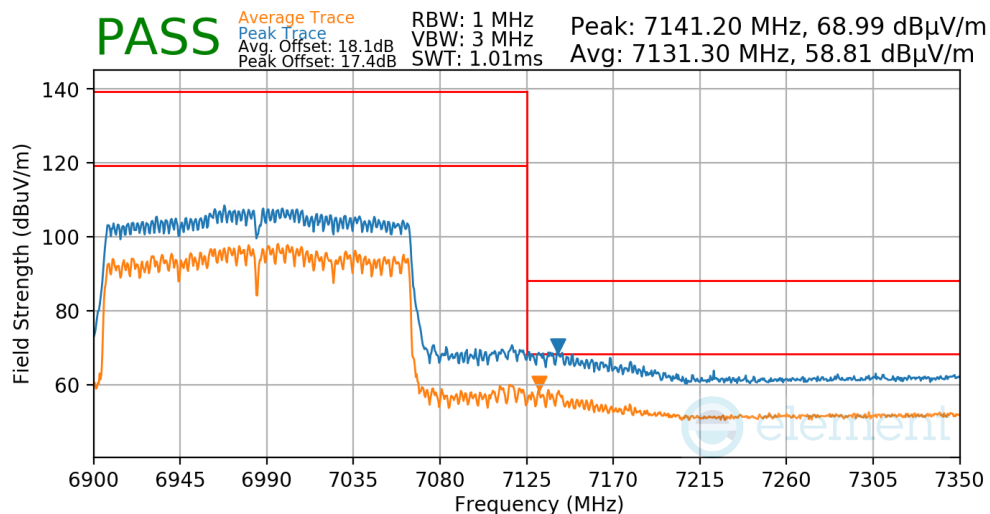
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Worst Case Mode: 802.11ax  
Worst Case Transfer Rate: MCS11  
Distance of Measurements: 3 Meters  
Operating Frequency: 6025MHz  
Channel: 15



**Plot 7-739. SDM Radiated Lower Band Edge (Peak & Average – UNII Band 5)**

Worst Case Mode: 802.11ax  
Worst Case Transfer Rate: MCS2  
Distance of Measurements: 3 Meters  
Operating Frequency: 6985MHz  
Channel: 207

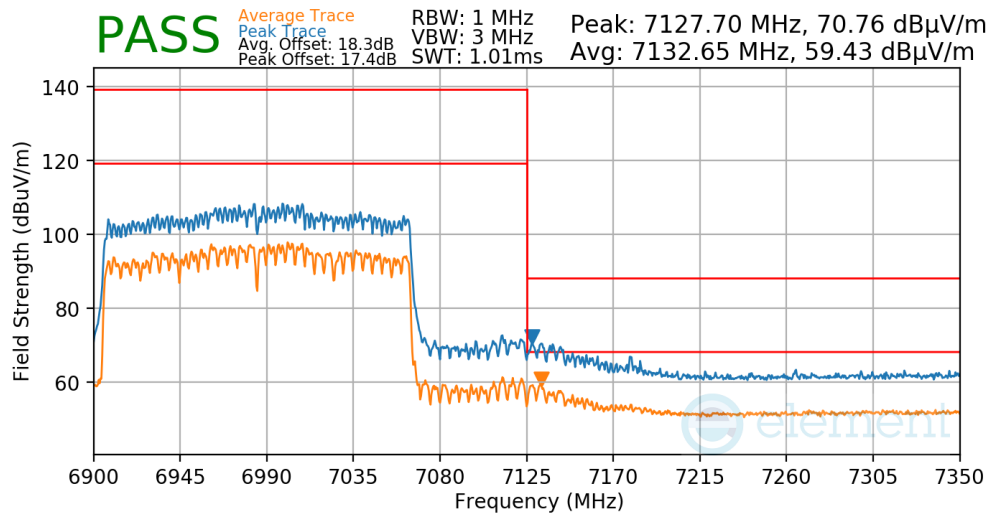


**Plot 7-740. SDM Radiated Upper Band Edge (Peak & Average – UNII Band 8)**

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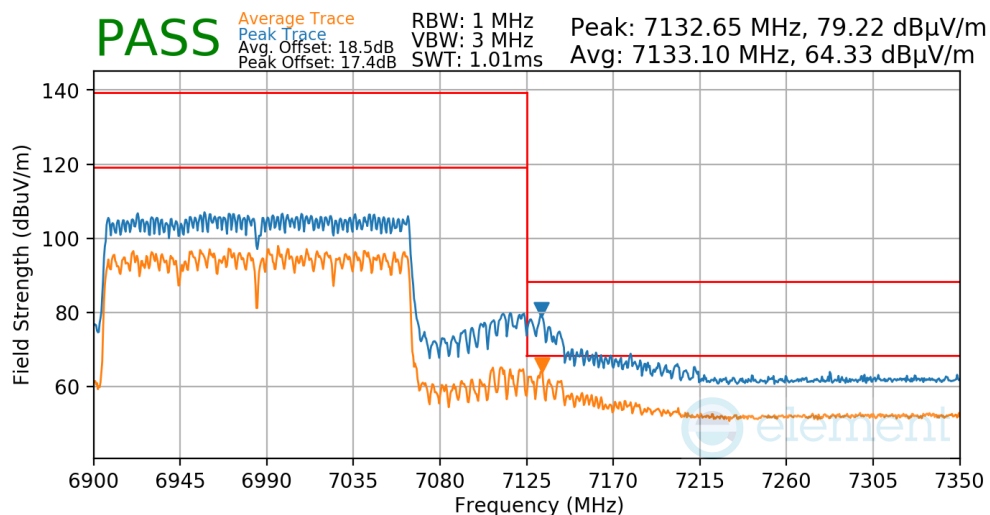
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Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS4  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 6985MHz  
 Channel: 207



**Plot 7-741. SDM Radiated Upper Band Edge (Peak & Average – UNII Band 8)**

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS11  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 6985MHz  
 Channel: 207



**Plot 7-742. SDM Radiated Upper Band Edge (Peak & Average – UNII Band 8)**

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## 7.8 Radiated Spurious Emissions – Below 1GHz

§15.209; RSS-Gen [8.9]

### Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

***All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 7 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-93 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 7-93. Radiated Limits**

### Test Procedures Used

ANSI C63.10-2013

### Test Settings

#### Quasi-Peak Field Strength Measurements

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

#### Peak Field Strength Measurements

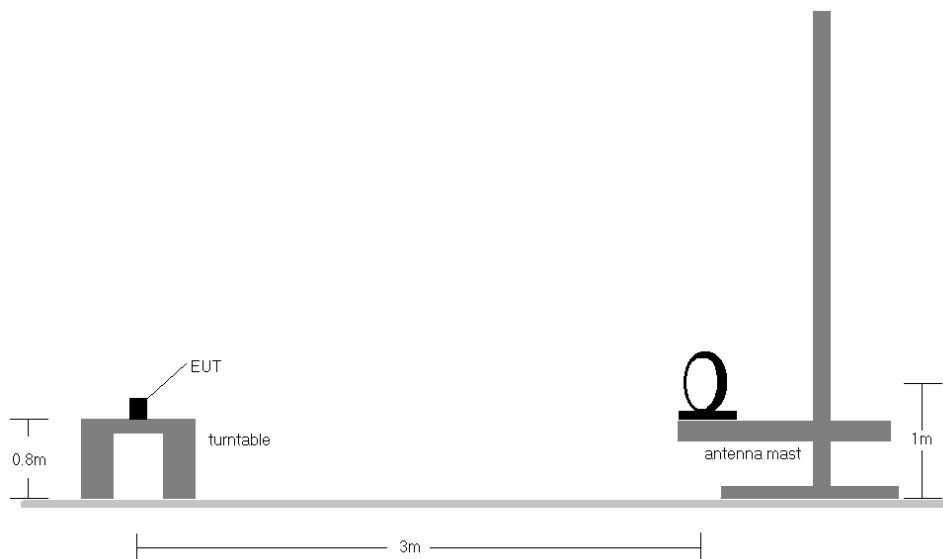
7. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
8. RBW = 120kHz (for emissions from 30MHz – 1GHz)
9. VBW = 300kHz
10. Detector = quasi-peak
11. Sweep time = auto couple
12. Trace mode = max hold
13. Trace was allowed to stabilize

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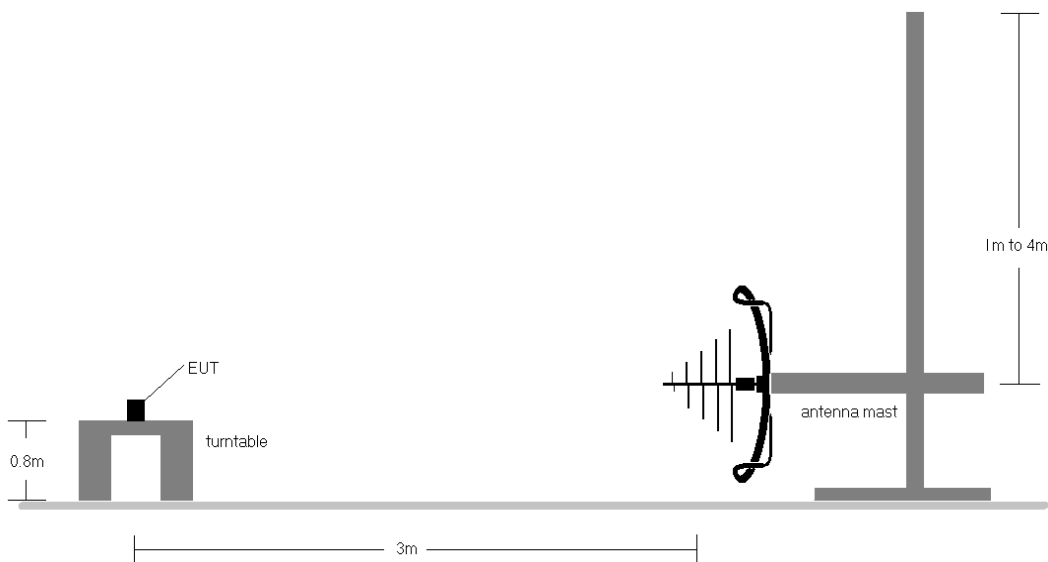
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## Test Setup


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



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



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

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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 7-93.
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. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. There were no emissions detected in the 30MHz – 1GHz frequency range, as shown in the subsequent plots.
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
11. All antenna configurations were investigated and only the worst case is reported.
12. The unit was tested with all possible modes and only the highest emission is reported.

## **Sample Calculations**

### **Determining Spurious Emissions Levels**

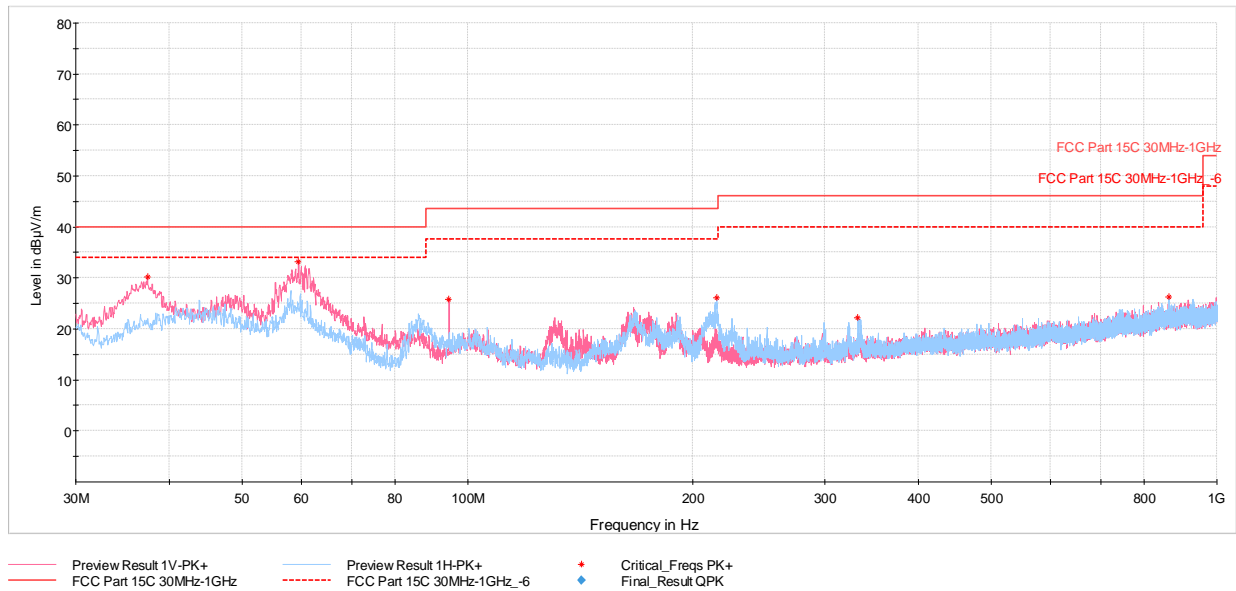
- Field Strength Level  $_{[dB\mu V/m]} = \text{Analyzer Level }_{[dBm]} + 107 + \text{AFCL }_{[dB/m]}$
- $\text{AFCL }_{[dB/m]} = \text{Antenna Factor }_{[dB/m]} + \text{Cable Loss }_{[dB]} - \text{Preamp Gain }_{[dB]}$
- $\text{Margin }_{[dB]} = \text{Field Strength Level }_{[dB\mu V/m]} - \text{Limit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

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

§15.209; RSS-Gen [8.9]



**Plot 7-743. Radiated Spurious Emissions below 1GHz SDM, 802.11ax, Ch.1 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]
37.42	Max-Peak	V	100	28	-58.70	-18.12	30.18	40.00	-9.82
59.49	Max-Peak	V	100	61	-56.93	-16.82	33.25	40.00	-6.75
94.46	Max-Peak	V	100	227	-62.10	-19.06	25.84	43.52	-17.68
214.98	Max-Peak	H	100	201	-63.06	-17.88	26.06	43.52	-17.46
331.91	Max-Peak	H	100	281	-70.43	-14.32	22.25	46.02	-23.77
862.89	Max-Peak	H	300	194	-75.91	-4.86	26.23	46.02	-19.79

**Table 7-94. Radiated Spurious Emissions Measurement below 1GHz SDM, 802.11ax, Ch.1 with AC/DC Adapter**

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## 7.9 AC Line-Conducted Emissions Measurement

**§15.407; 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 7-95. Conducted Limits**

\*Decreases with the logarithm of the frequency.

### Test Procedures Used

ANSI C63.10-2013, 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

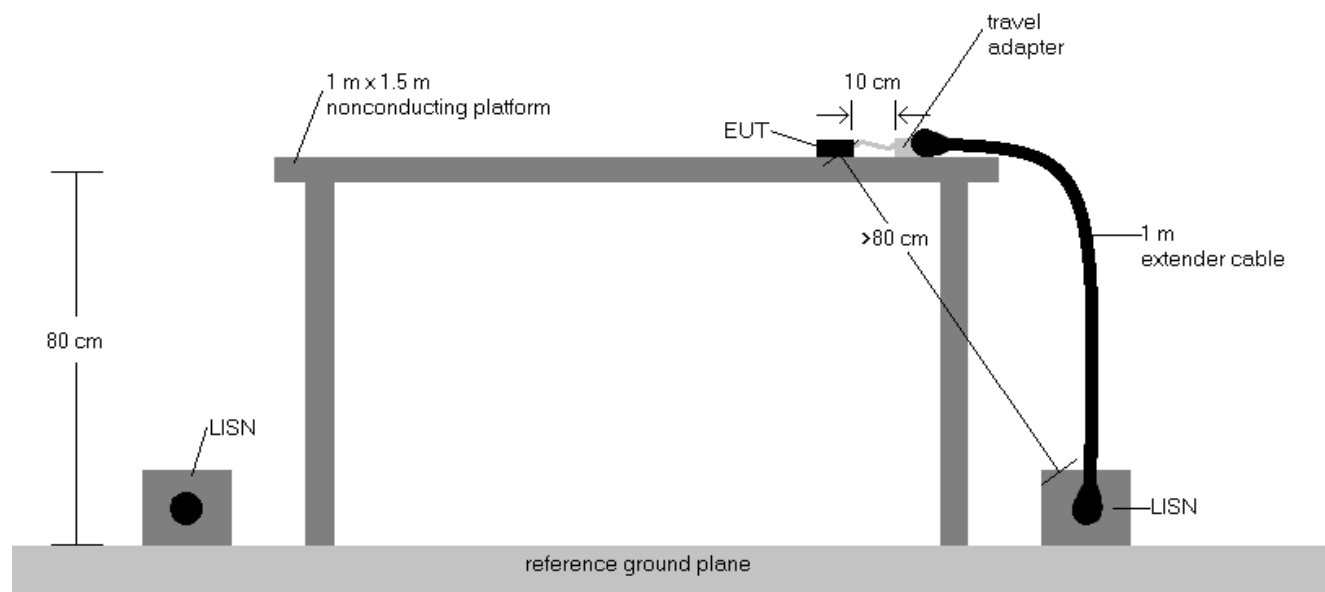
1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = RMS
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

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## Test Setup

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



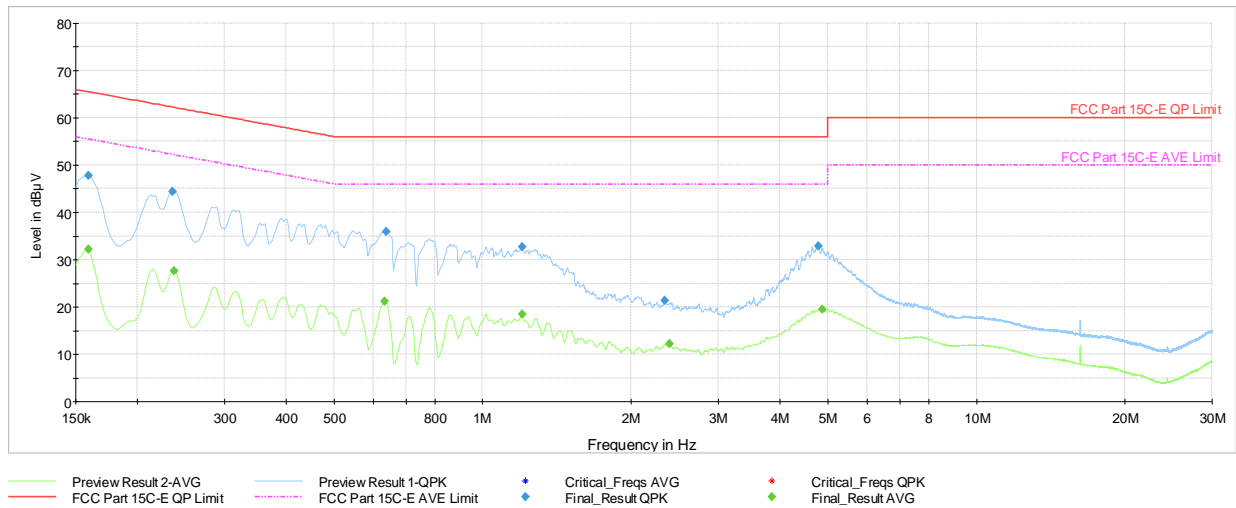
**Figure 7-9. Test Instrument & Measurement Setup**

## Test Notes

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

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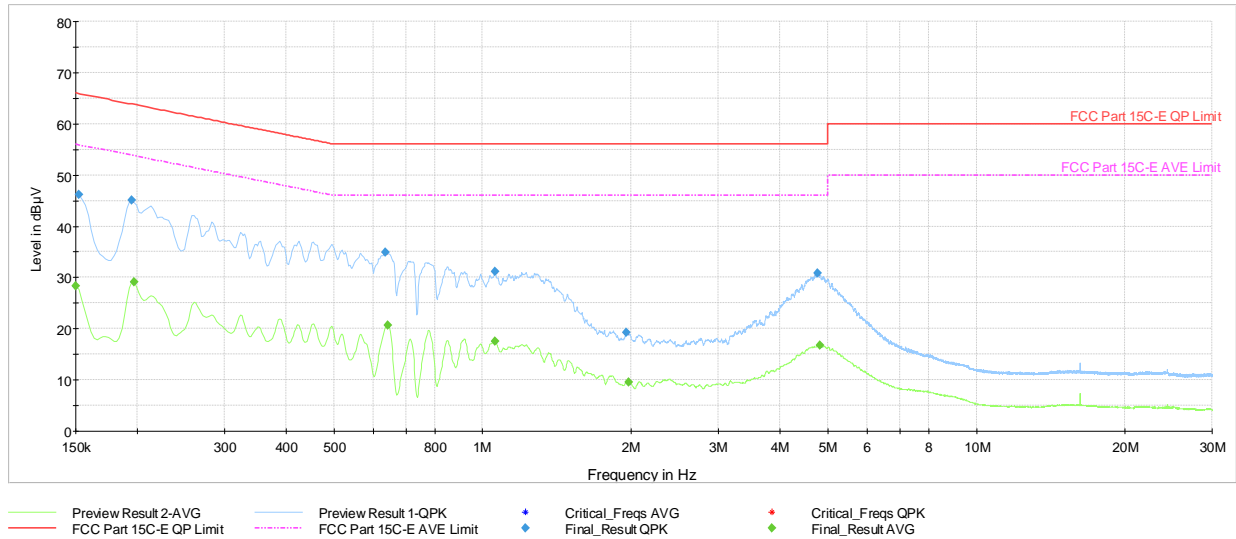
**Plot 7-744. AC Line Conducted Plot with 802.11ax SDM – Ch.56 (L1), with AC/DC adapter**

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.159	FINAL	---	32.18	55.52	-23.34	L1	GND
0.159	FINAL	47.8	---	65.52	-17.75	L1	GND
0.236	FINAL	44.4	---	62.25	-17.84	L1	GND
0.238	FINAL	---	27.61	52.17	-24.56	L1	GND
0.634	FINAL	---	21.14	46.00	-24.86	L1	GND
0.638	FINAL	36.0	---	56.00	-19.99	L1	GND
1.203	FINAL	32.6	---	56.00	-23.37	L1	GND
1.203	FINAL	---	18.41	46.00	-27.59	L1	GND
2.339	FINAL	21.4	---	56.00	-34.59	L1	GND
2.387	FINAL	---	12.14	46.00	-33.86	L1	GND
4.785	FINAL	32.9	---	56.00	-23.12	L1	GND
4.873	FINAL	---	19.48	46.00	-26.52	L1	GND

**Table 7-96. AC Line Conducted Data with 802.11ax SDM – Ch. 56 (L1) with AC/DC adapter**

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**Plot 7-745. AC Line Conducted Plot with 802.11ax SDM – Ch. 56 (N), with AC/DC adapter**

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.150	FINAL	---	28.39	56.00	-27.61	N	GND
0.152	FINAL	46.3	---	65.88	-19.63	N	GND
0.195	FINAL	45.1	---	63.82	-18.75	N	GND
0.197	FINAL	---	29.17	53.73	-24.55	N	GND
0.636	FINAL	34.9	---	56.00	-21.15	N	GND
0.643	FINAL	---	20.68	46.00	-25.32	N	GND
1.059	FINAL	31.1	---	56.00	-24.89	N	GND
1.059	FINAL	---	17.49	46.00	-28.51	N	GND
1.955	FINAL	19.3	---	56.00	-36.68	N	GND
1.975	FINAL	---	9.61	46.00	-36.39	N	GND
4.763	FINAL	30.9	---	56.00	-25.14	N	GND
4.826	FINAL	---	16.68	46.00	-29.32	N	GND

**Table 7-97. AC Line Conducted Data with 802.11ax SDM – Ch. 56 (N), with AC/DC adapter**

FCC ID: BCGA2759 IC: 579C-A2759	 <b>MEASUREMENT REPORT (CERTIFICATION)</b>		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: BCGA2759** and **IC: 579C-A2759** is in compliance with Part 15 Subpart E (15.407) of the FCC Rules and RSS-247 of the Innovation, Science and Economic Development Canada Rules.

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