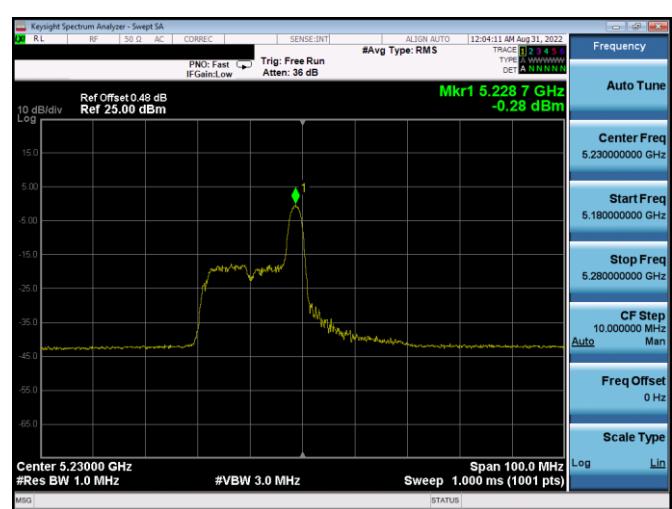
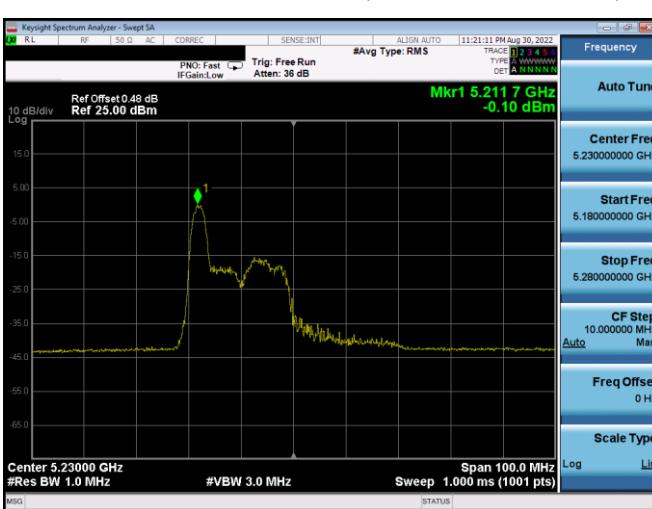
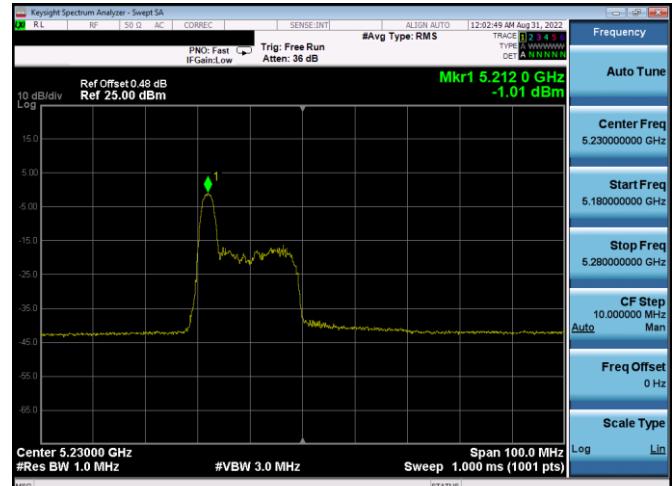
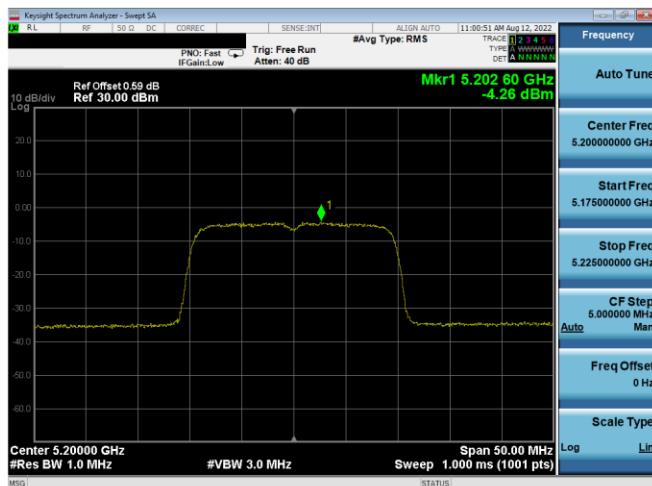
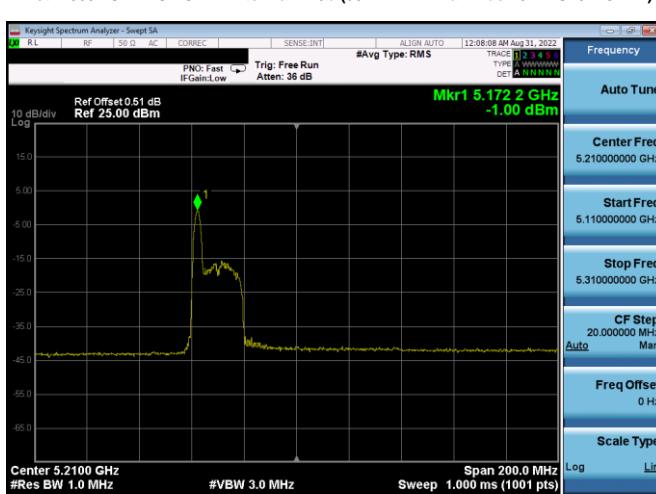
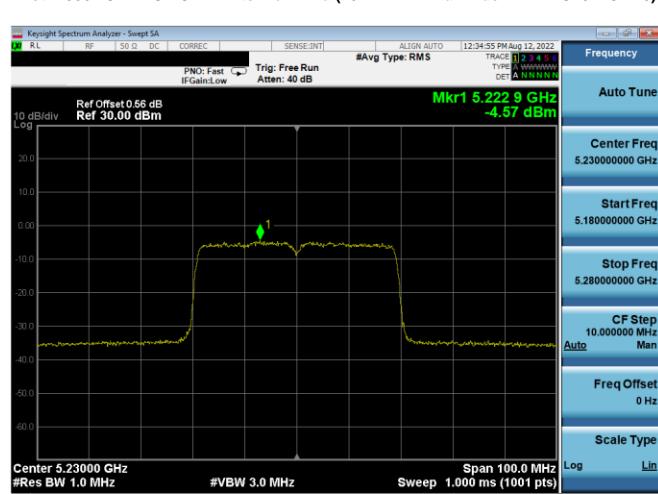
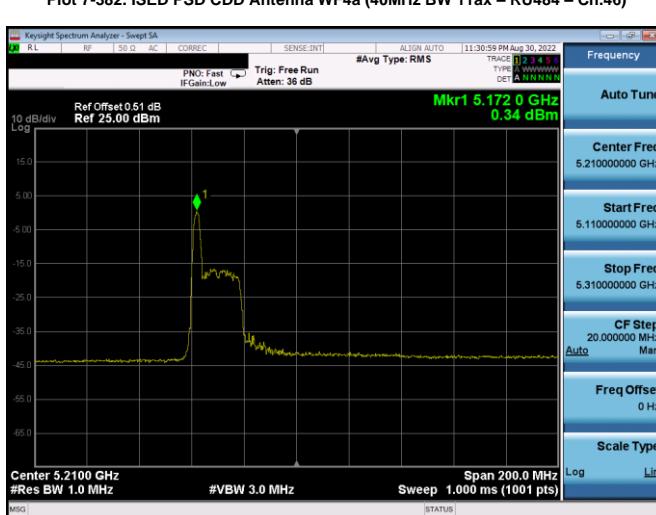
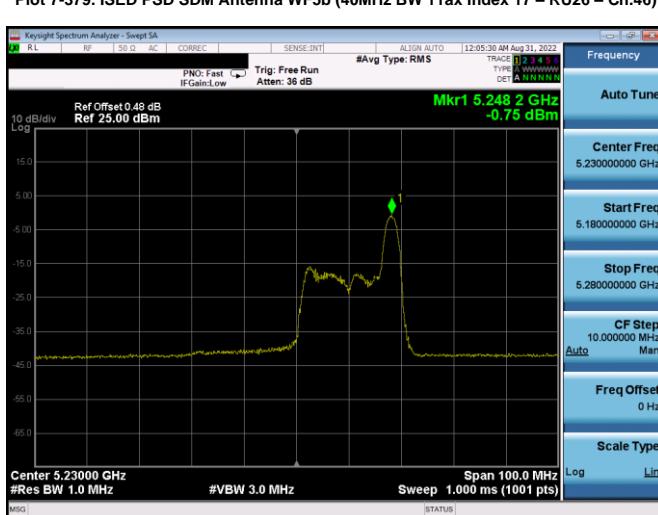
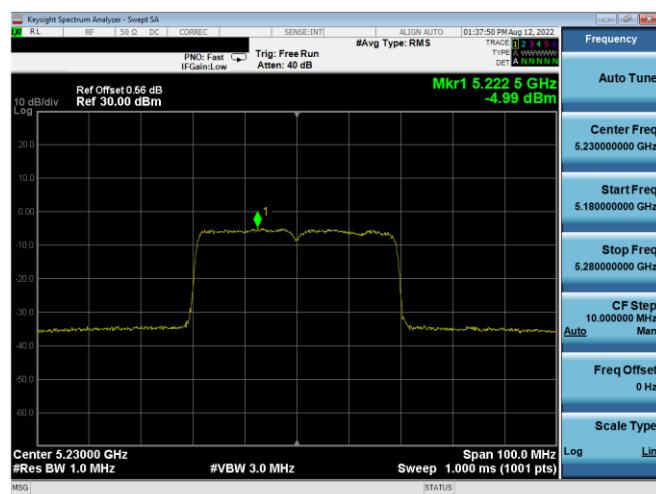
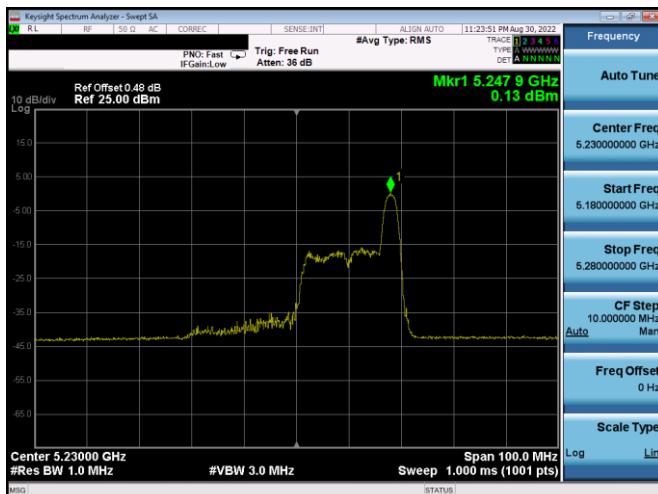


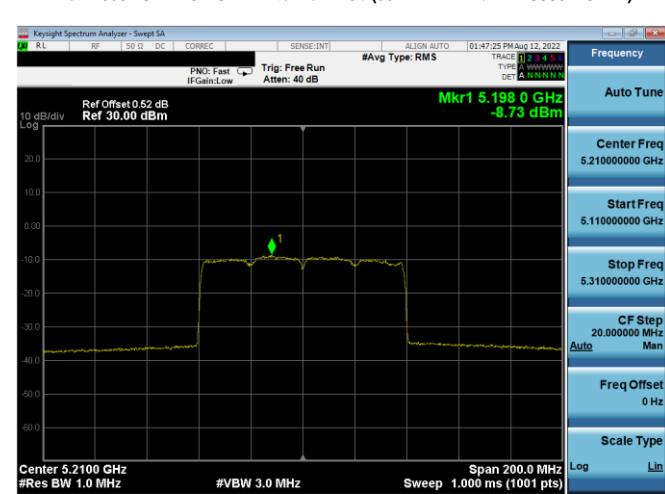
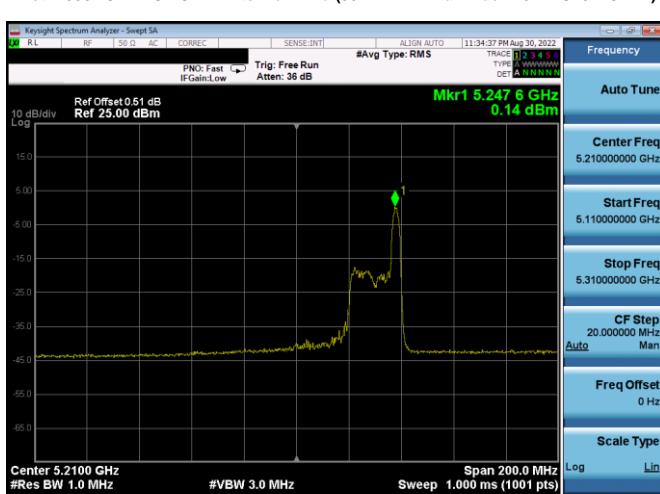
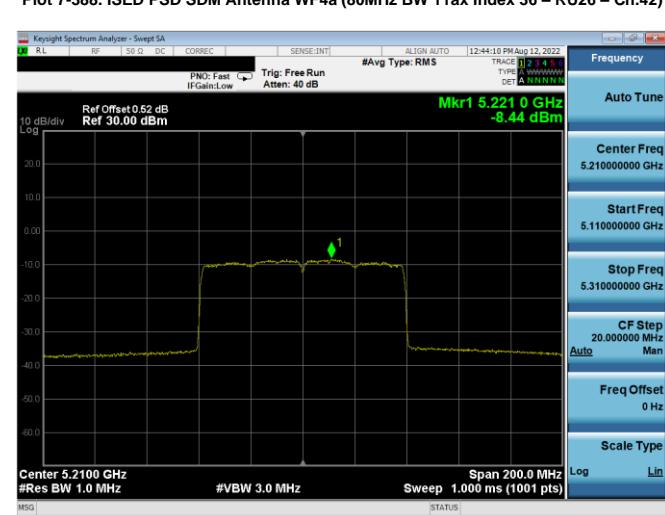
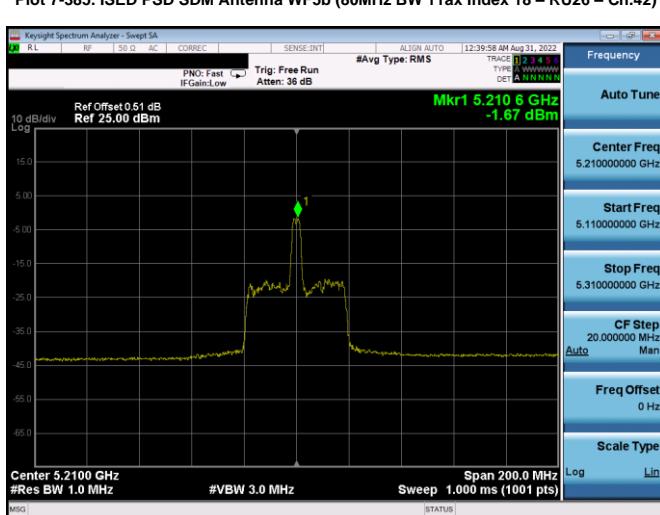
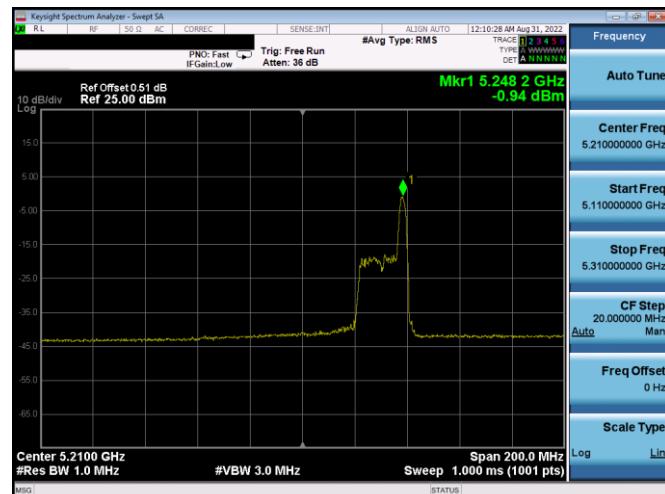
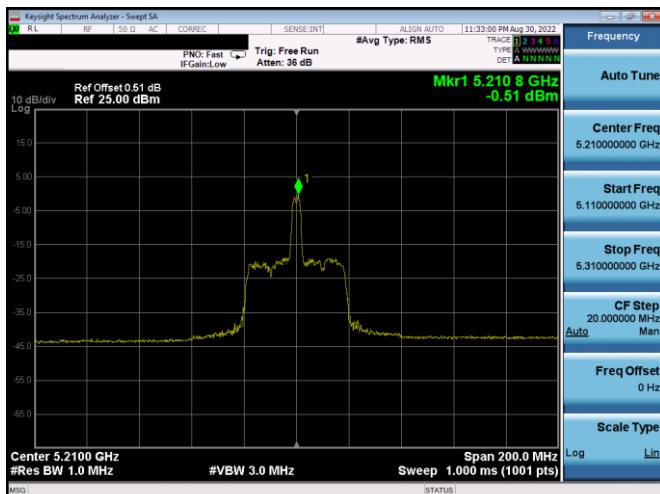
FCC ID: BCGA2435		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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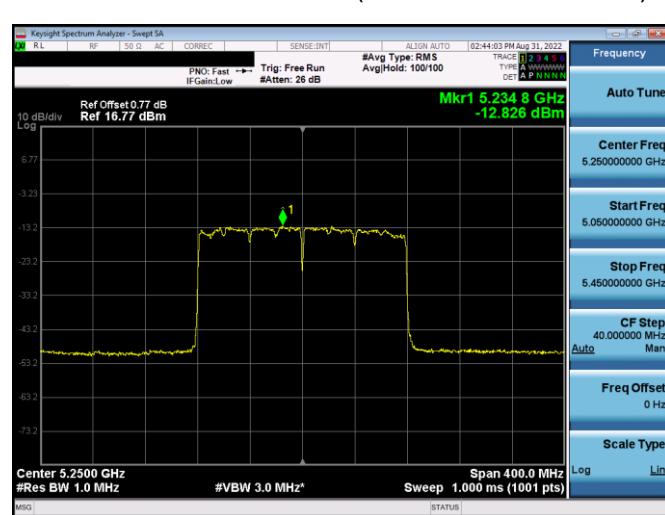
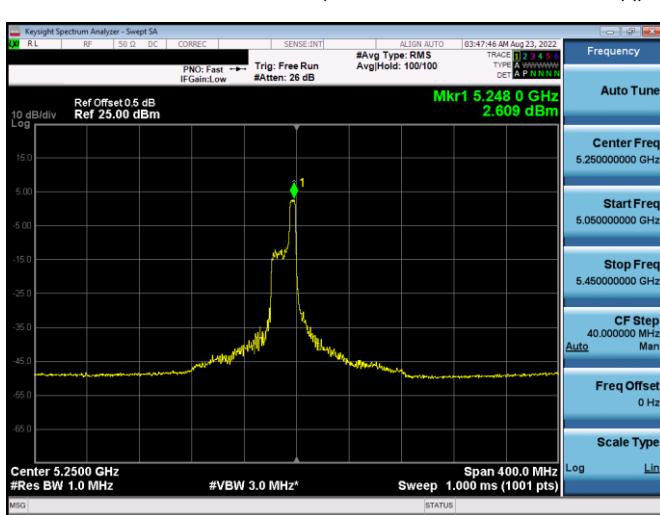
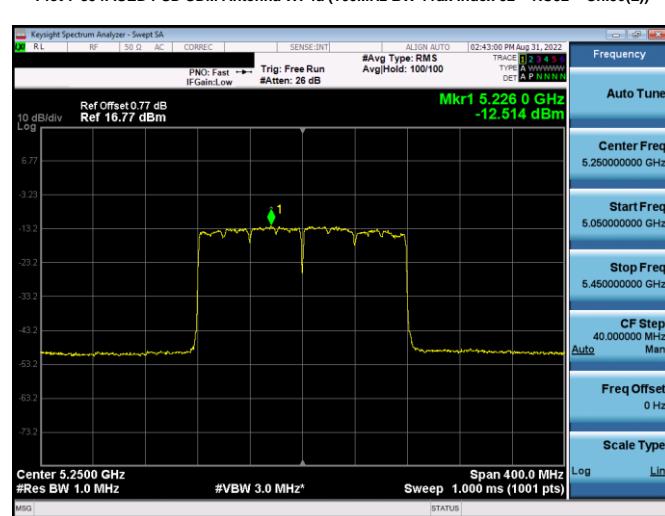
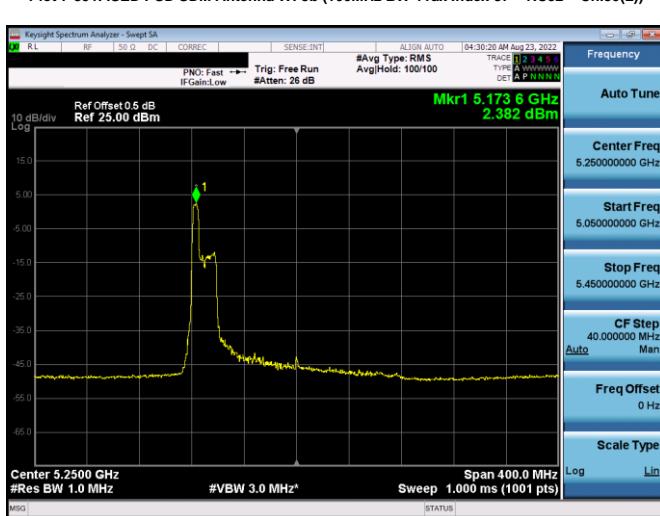
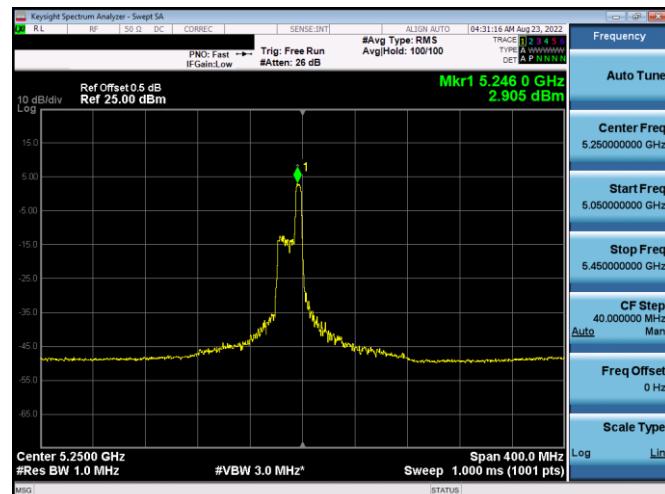
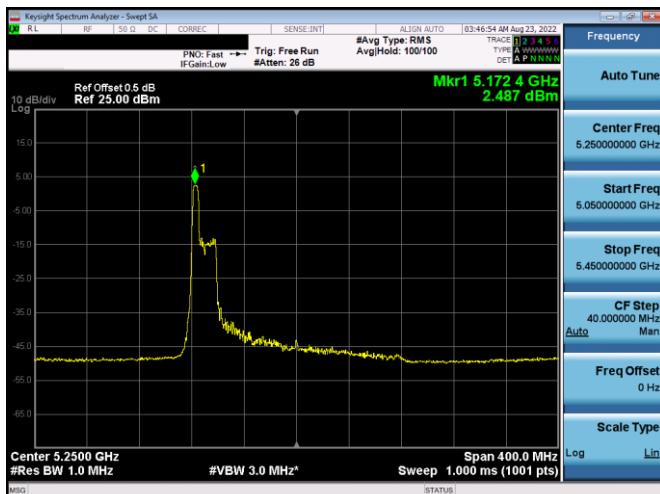
FCC ID: BCGA2435		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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**Note:**

Per ANSI C63.10-2013 Subclause 14.3.2.2 and KDB 662911 v02r01 Section E(2), the power spectral density at Antenna WF5b and Antenna WF4a were first measured separately during CDD/SDM transmission as shown in the section above. The measured values were then summed in linear power units then converted back to dBm.

**Sample Directional Gain Calculation:**

For correlated signals, assuming the antenna gain is 3.7 dBi for Antenna WF5b and 2.4 dBi for Antenna WF4a.

$$\begin{aligned}
 \text{Directional gain} &= 10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{\text{ANT}}] \text{ dBi} \\
 &= 10 \log[(10^{3.7/20} + 10^{2.4/20})^2 / 2] \text{ dBi} \\
 &= 6.08 \text{ dBi}
 \end{aligned}$$

For uncorrelated signals, assuming the antenna gain is 3.7 dBi for Antenna WF5b and 2.4 dBi for Antenna WF4a.

$$\begin{aligned}
 \text{Directional gain} &= 10 \log[(10^{G_1/10} + 10^{G_2/10} + \dots + 10^{G_N/10}) / N_{\text{ANT}}] \text{ dBi} \\
 &= 10 \log[(10^{3.7/10} + 10^{2.4/10}) / 2] \text{ dBi} \\
 &= 3.10 \text{ dBi}
 \end{aligned}$$

**Sample CDD/SDM Calculation:**

Assuming the average conducted power spectral density was measured to be 6.24 dBm for Antenna WF5b and 5.26 dBm for Antenna WF4a.

$$\text{Antenna WF5b + Antenna WF4a} = \text{CDD/SDM}$$

$$(6.24 \text{ dBm} + 5.26 \text{ dBm}) = (4.21 \text{ mW} + 3.36 \text{ mW}) = 7.57 \text{ mW} = 8.79 \text{ dBm}$$

**Sample e.i.r.p Power Spectral Density Calculation:**

Assuming the average CDD/SDM power density was calculated to be 8.79 dBm with directional gain of 3.10 dBi.

$$\text{e.i.r.p. Power Spectral Density(dBm)} = \text{Power Spectral Density (dBm)} + \text{directional gain (dBi)}$$

$$8.79 \text{ dBm} + 3.10 \text{ dBi} = 11.89 \text{ dBm}$$

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## 7.6 Radiated Spurious Emission – Above 1GHz

§15.407(b) §15.205 §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 its maximum power control level, as defined in ANSI C63.10-2013 and KDB 789033 D02 v02r01, and at the appropriate frequencies. All channels, modes (e.g. RU26, 52 Tones, RU106, RU242, RU484 and RU996), and modulations/data rates were investigated among all UNII bands. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

**For transmitters operating in the 5.15-5.25 GHz and 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.**

**For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of -27 dBm/MHz.**

**For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.**

**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 7-118 per Section 15.209 and RSS-Gen (8.9).**

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

Table 7-118. Radiated Limits

### Test Procedures Used

ANSI C63.10-2013 – Subclauses 12.7.7.2, 12.7.6, 12.7.5  
KDB 789033 D02 v02r01 – Section G

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## Test Settings

### Average Field Strength Measurements

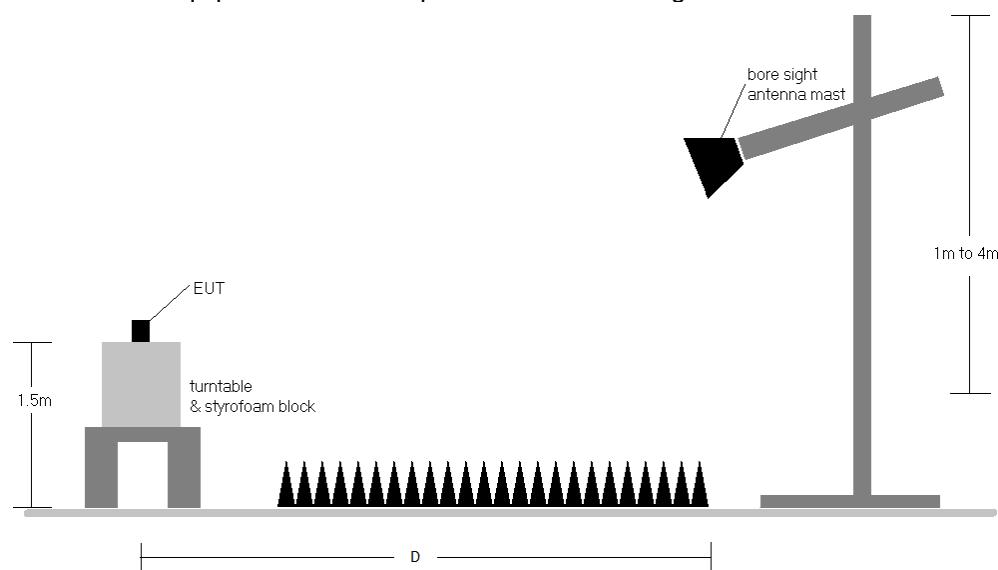
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = power average (RMS)
5. Number of measurement points = 1001 (Number of points must be  $\geq 2 \times \text{span}/\text{RBW}$ )
6. Averaging type = power (RMS)
7. Sweep time = auto couple
8. Trace was averaged over 100 sweeps

### 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

## Test Setup

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



**Figure 7-5. Test Instrument & Measurement Setup**

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## Test Notes

1. All emissions that lie in the restricted bands (denoted by a \* next to the frequency) specified in §15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-118.
2. All spurious emissions lying in restricted bands specified in §15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-118. All spurious emissions that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz. At a distance of 3 meters, the field strength limit in dB $\mu$ V/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dB $\mu$ V/m.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. This unit was tested with its standard battery.
5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken using linearly polarized horn antennas.
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 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.
8. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
9. Per RSS-247 Section 6.2.3, transmission on channels which overlap the 5600-5650 MHz is prohibited. This device operates under these frequencies only under the control of a certified master device and does not support active scanning on these channels. This device does not transmit any beacons or initiate any transmissions in UNII Bands 2A or 2C.
10. For radiated measurements, emissions were investigated for the fully-loaded RU configuration and for all of the partially-loaded RU configurations. Among all of the available partially-loaded RU configurations, only the configuration with the worst case emissions is reported.

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## Sample Calculations

### Determining Spurious Emissions Levels

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

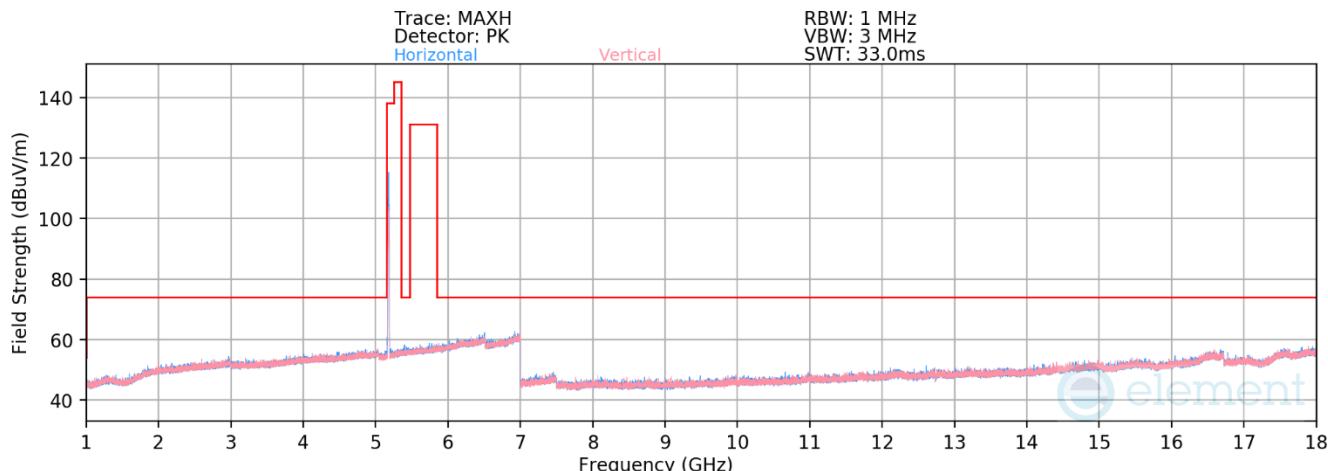
### Radiated Band Edge Measurement Offset

- The amplitude offset shown in the radiated restricted band edge plots in Section 7.6.4 was calculated using the formula:  
$$\text{Offset (dB)} = (\text{Antenna Factor} + \text{Cable Loss} + \text{Attenuator}) - \text{Preamplifier Gain}$$

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### 7.6.1 Antenna WF5b Radiated Spurious Emission

RU26/52



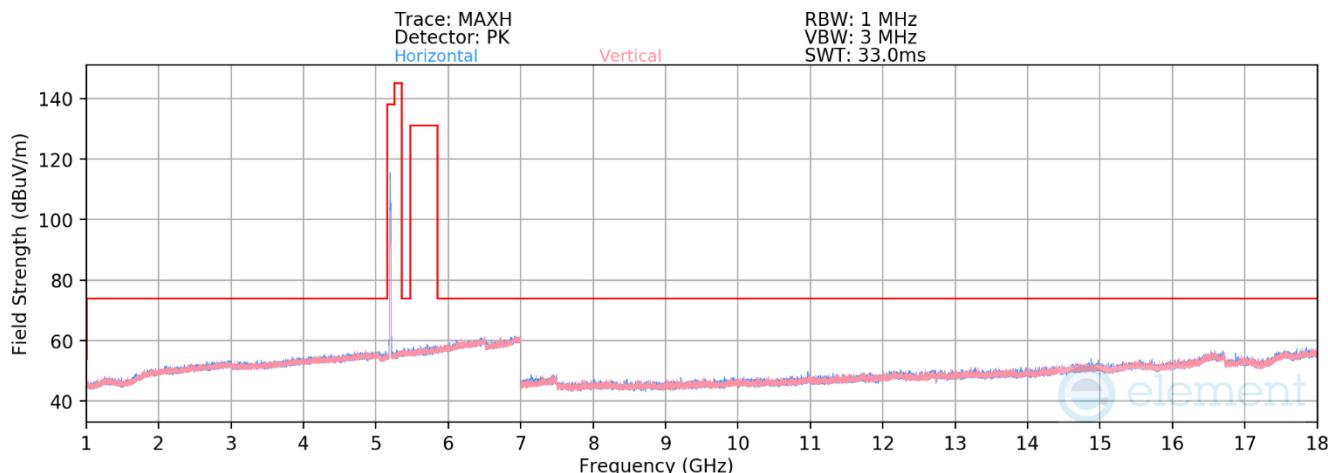
Plot 7-397. RSE above 1GHz Antenna WF5b (11ax – Ch.36 – RU26)

Mode:	802.11ax (20MHz BW)
Data Rate:	MCS11
RU Index:	4
Distance of Measurements:	3 Meters
Operating Frequency:	5180MHz
Channel:	36

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
10360.00	Peak	H	-	-	-68.76	10.05	48.29	68.20	-19.91
* 15540.00	Average	H	-	-	-81.76	15.23	40.47	53.98	-13.51
* 15540.00	Peak	H	-	-	-70.29	15.23	51.94	73.98	-22.04

Table 7-119. Radiated Measurements Antenna WF5b (RU26)

FCC ID: BCGA2435 IC: 579C-A2435	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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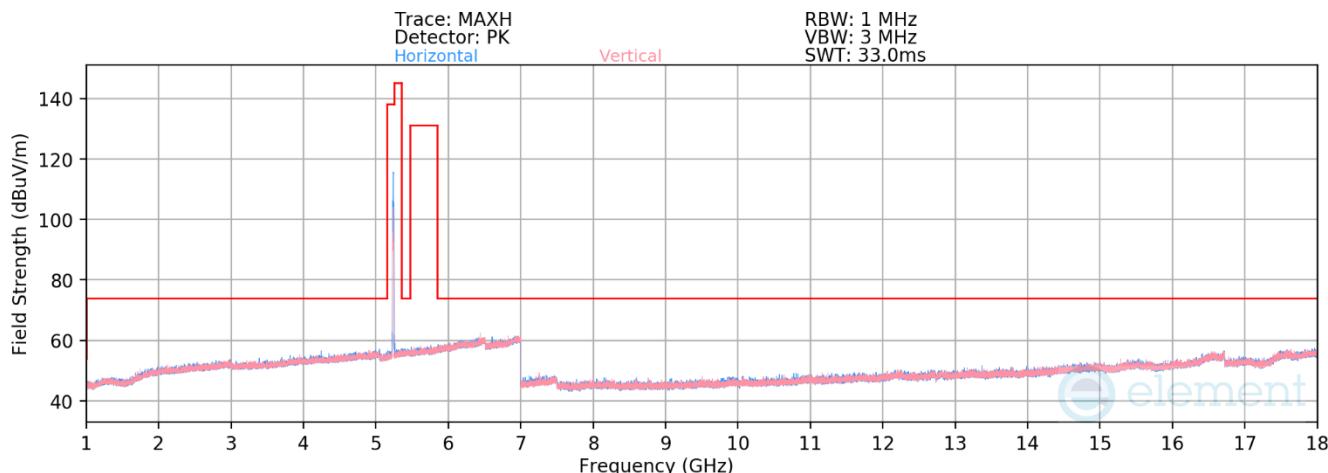

**Plot 7-398. RSE above 1GHz Antenna WF5b (11ax – Ch.40 – RU26)**

Mode: 802.11ax (20MHz BW)  
 Data Rate: MCS11  
 RU Index: 4  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5200MHz  
 Channel: 40

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
10400.00	Peak	H	-	-	-69.03	9.87	47.84	68.20	-20.36
* 15600.00	Average	H	-	-	-81.82	14.80	39.98	53.98	-14.00
* 15600.00	Peak	H	-	-	-70.35	14.80	51.45	73.98	-22.53

**Table 7-120. Radiated Measurements Antenna WF5b (RU26)**

FCC ID: BCGA2435 IC: 579C-A2435	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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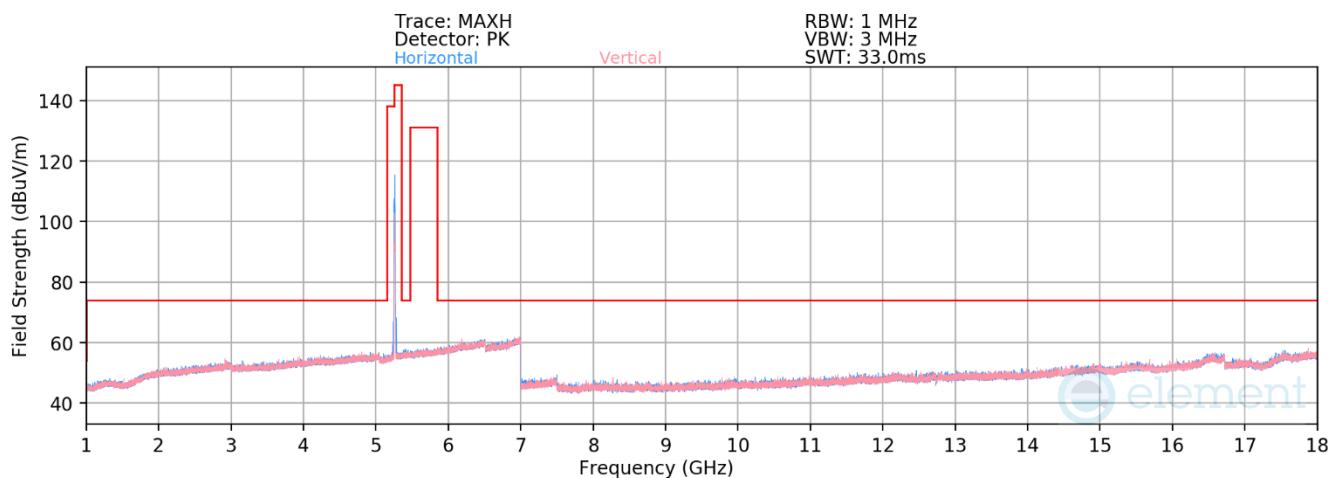
**Plot 7-399. RSE above 1GHz Antenna WF5b (11ax – Ch.48 – RU26)**

Mode: 802.11ax (20MHz BW)  
 Data Rate: MCS11  
 RU Index: 4  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5240MHz  
 Channel: 48

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
10480.00	Peak	H	-	-	-68.23	10.13	48.90	68.20	-19.30
* 15720.00	Average	H	-	-	-81.48	14.34	39.86	53.98	-14.12
* 15720.00	Peak	H	-	-	-70.21	14.34	51.13	73.98	-22.85

**Table 7-121. Radiated Measurements Antenna WF5b (RU26)**

FCC ID: BCGA2435 IC: 579C-A2435	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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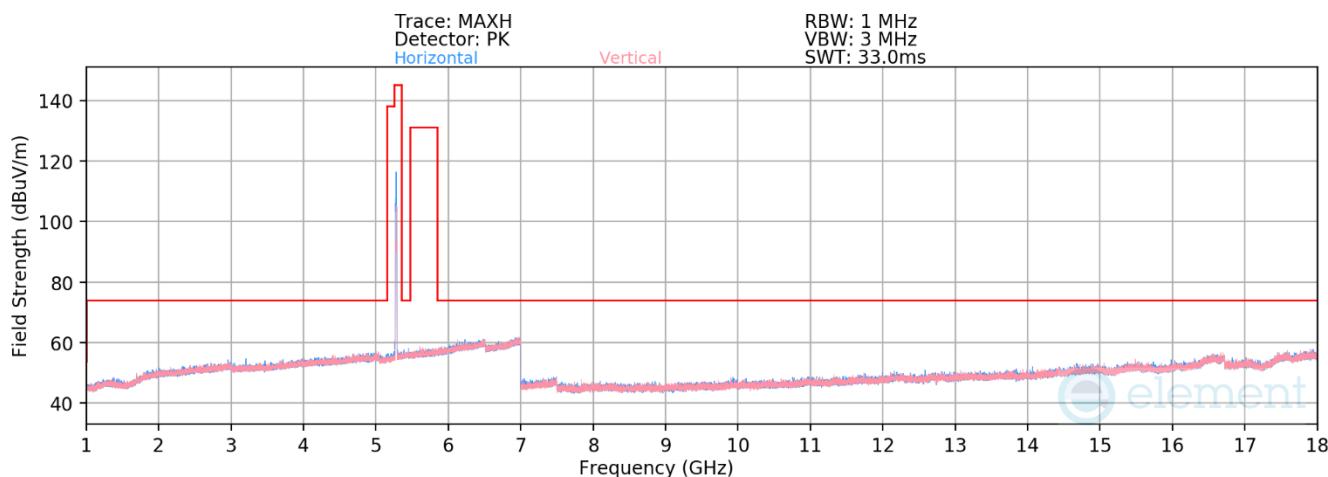
**RU52**

**Plot 7-400. RSE above 1GHz Antenna WF5b (11ax – Ch.52 – RU52)**

Mode: 802.11ax (20MHz BW)  
 Data Rate: MCS11  
 RU Index: 38  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5260MHz  
 Channel: 52

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]
10520.00	Peak	H	-	-	-69.51	10.37	47.86	68.20	-20.34
* 15780.00	Average	H	-	-	-81.53	14.19	39.66	53.98	-14.32
* 15780.00	Peak	H	-	-	-69.78	14.19	51.41	73.98	-22.57

**Table 7-122. Radiated Measurements Antenna WF5b (RU52)**

FCC ID: BCGA2435 IC: 579C-A2435	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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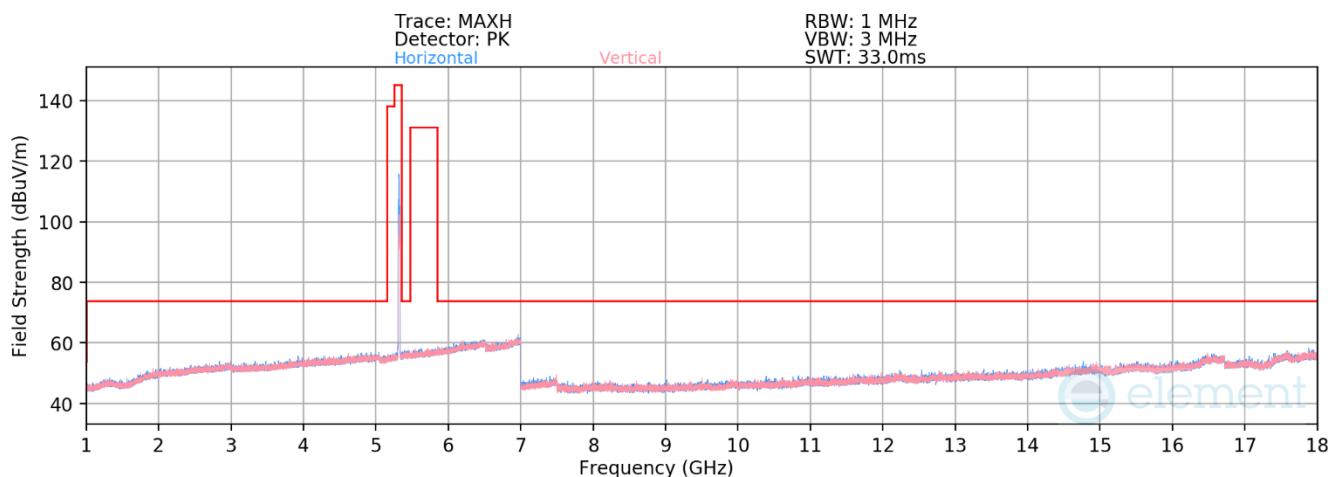
**Plot 7-401. RSE above 1GHz Antenna WF5b (11ax – Ch.56 – RU52)**

Mode: 802.11ax (20MHz BW)  
 Data Rate: MCS11  
 RU Index: 38  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5280MHz  
 Channel: 56

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
10560.00	Peak	H	-	-	-69.10	9.92	47.82	68.20	-20.38
* 15840.00	Average	H	-	-	-80.40	14.45	41.05	53.98	-12.93
* 15840.00	Peak	H	-	-	-69.17	14.45	52.28	73.98	-21.70

**Table 7-123. Radiated Measurements Antenna WF5b (RU52)**

FCC ID: BCGA2435 IC: 579C-A2435	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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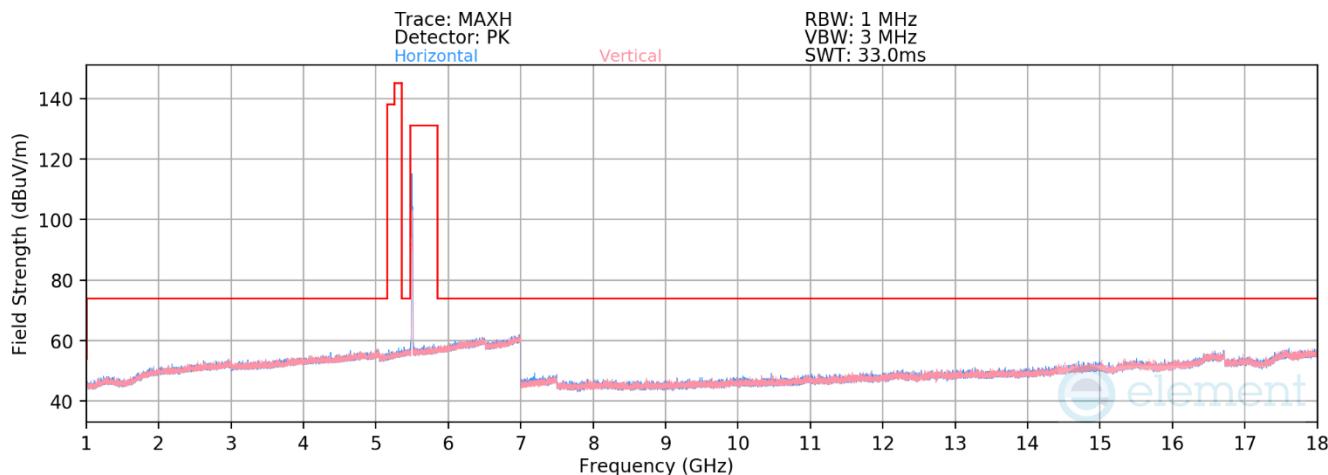
**Plot 7-402. RSE above 1GHz Antenna WF5b (11ax – Ch.64 – RU52)**

Mode: 802.11ax (20MHz BW)  
 Data Rate: MCS11  
 RU Index: 38  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5320MHz  
 Channel: 64

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
* 10640.00	Average	H	-	-	-80.49	10.13	36.64	53.98	-17.34
* 10640.00	Peak	H	-	-	-68.64	10.13	48.49	73.98	-25.49
* 15960.00	Average	H	-	-	-81.42	14.94	40.52	53.98	-13.46
* 15960.00	Peak	H	-	-	-70.23	14.94	51.71	73.98	-22.27

**Table 7-124. Radiated Measurements Antenna WF5b (RU52)**

FCC ID: BCGA2435 IC: 579C-A2435	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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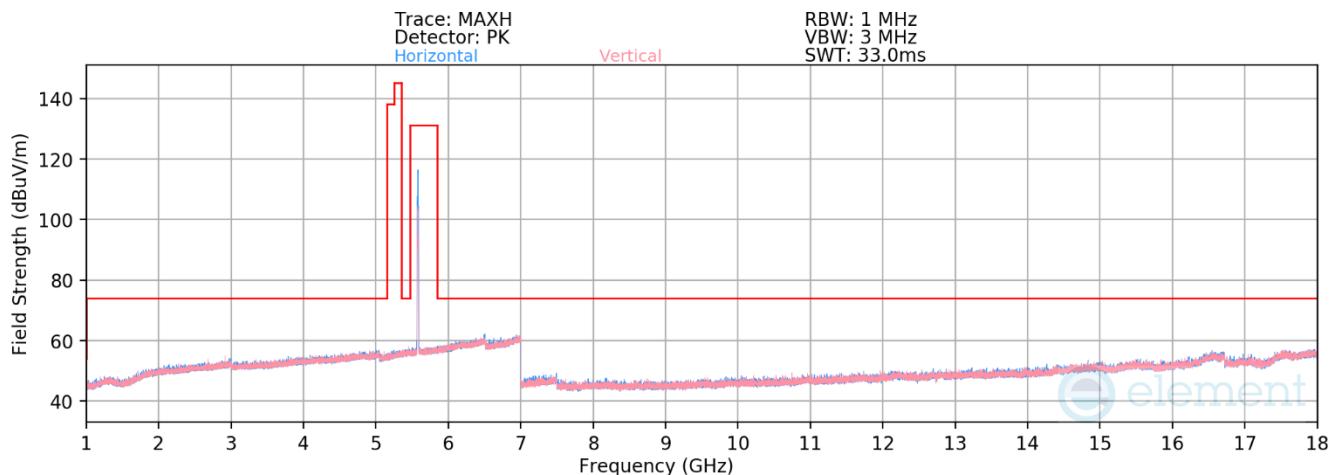
**Plot 7-403. RSE above 1GHz Antenna WF5b (11ax – Ch.100 – RU52)**

Mode: 802.11ax (20MHz BW)  
 Data Rate: MCS11  
 RU Index: 38  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5500MHz  
 Channel: 100

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]
* 11000.00	Average	H	-	-	-80.45	10.96	37.51	53.98	-16.47
* 11000.00	Peak	H	-	-	-68.60	10.96	49.36	73.98	-24.62
16500.00	Peak	H	-	-	-70.82	17.98	54.16	68.20	-14.04

**Table 7-125. Radiated Measurements Antenna WF5b (RU52)**

FCC ID: BCGA2435 IC: 579C-A2435	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090025-20.BCG	Test Dates: 05/30/2022-09/12/2022	EUT Type: Tablet Device	Page 158 of 289

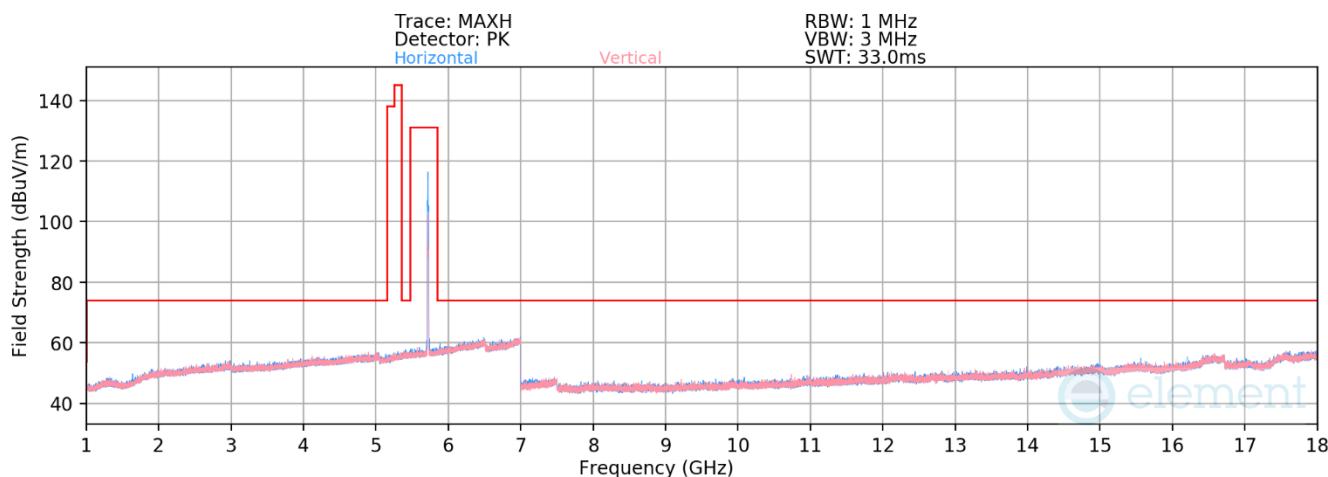

**Plot 7-404. RSE above 1GHz Antenna WF5b (11ax – Ch.116 – RU52)**

Mode: 802.11ax (20MHz BW)  
 Data Rate: MCS11  
 RU Index: 38  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5580MHz  
 Channel: 116

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
* 11160.00	Average	H	-	-	-80.51	10.39	36.88	53.98	-17.10
* 11160.00	Peak	H	-	-	-68.93	10.39	48.46	73.98	-25.52
16740.00	Peak	H	-	-	-70.25	17.57	54.32	68.20	-13.88

**Table 7-126. Radiated Measurements Antenna WF5b (RU52)**

FCC ID: BCGA2435 IC: 579C-A2435	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090025-20.BCG	Test Dates: 05/30/2022-09/12/2022	EUT Type: Tablet Device	Page 159 of 289



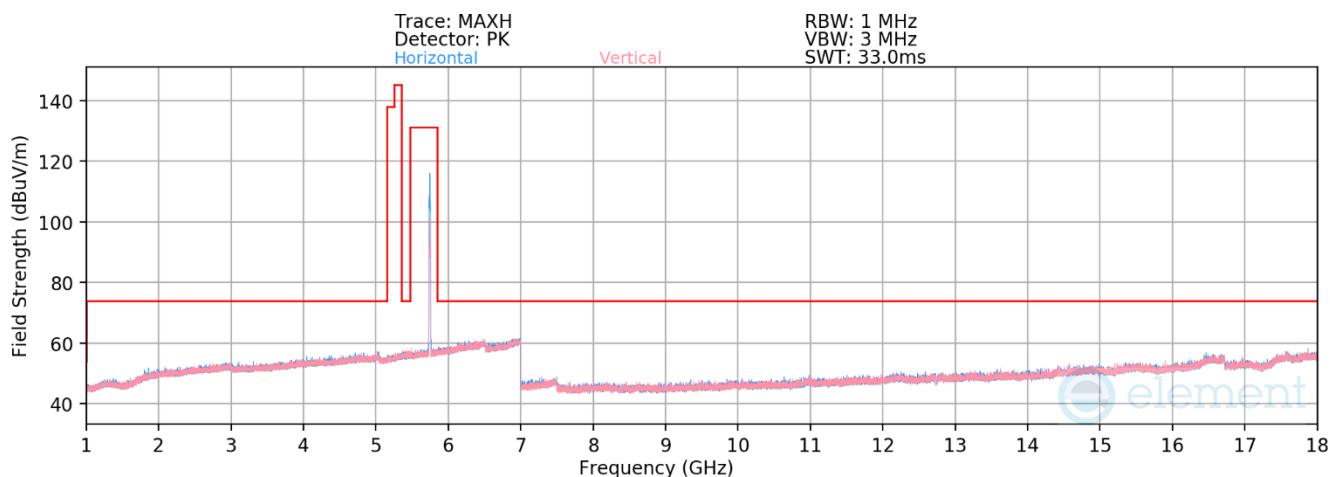
**Plot 7-405. RSE above 1GHz Antenna WF5b (11ax – Ch.144 – RU52)**

Mode: 802.11ax (20MHz BW)  
 Data Rate: MCS11  
 RU Index: 38  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5720MHz  
 Channel: 144

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
* 11440.00	Average	H	-	-	-80.77	10.79	37.02	53.98	-16.96
* 11440.00	Peak	H	-	-	-68.93	10.79	48.86	73.98	-25.12
17160.00	Peak	H	-	-	-70.86	18.62	54.76	68.20	-13.44

**Table 7-127. Radiated Measurements Antenna WF5b (RU52)**

FCC ID: BCGA2435 IC: 579C-A2435	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090025-20.BCG	Test Dates: 05/30/2022-09/12/2022	EUT Type: Tablet Device	Page 160 of 289



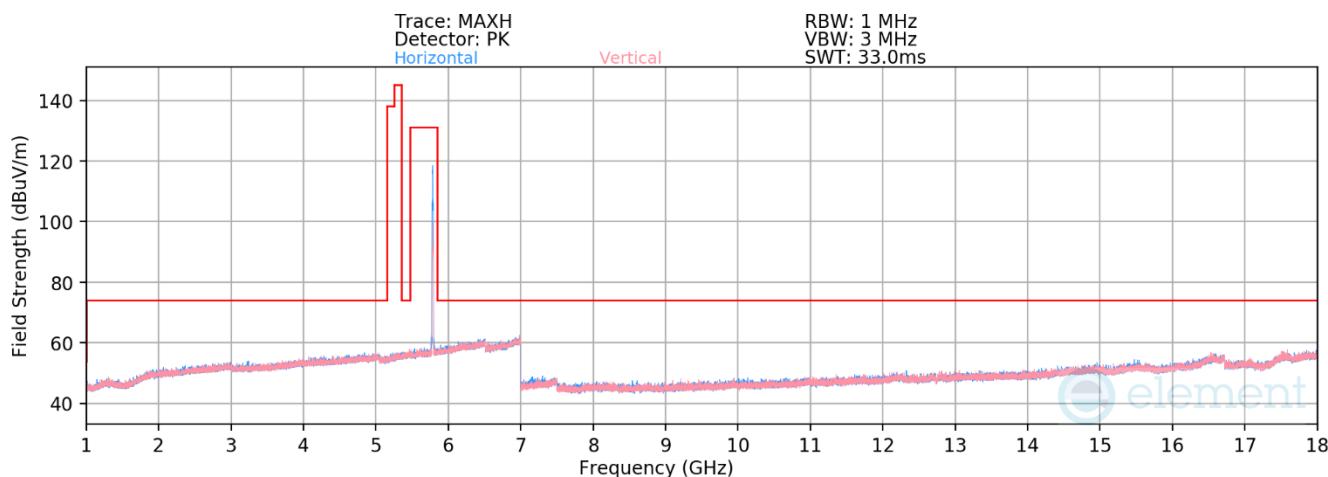
**Plot 7-406. RSE above 1GHz Antenna WF5b (11ax – Ch.149 – RU26)**

Mode: 802.11ax (20MHz BW)  
 Data Rate: MCS11  
 RU Index: 4  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5745MHz  
 Channel: 149

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]
* 11490.00	Average	H	-	-	-80.45	10.82	37.37	53.98	-16.61
* 11490.00	Peak	H	-	-	-68.94	10.82	48.88	73.98	-25.10
17235.00	Peak	H	-	-	-70.95	18.44	54.49	68.20	-13.71

**Table 7-128. Radiated Measurements Antenna WF5b (RU26)**

FCC ID: BCGA2435 IC: 579C-A2435	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090025-20.BCG	Test Dates: 05/30/2022-09/12/2022	EUT Type: Tablet Device	Page 161 of 289



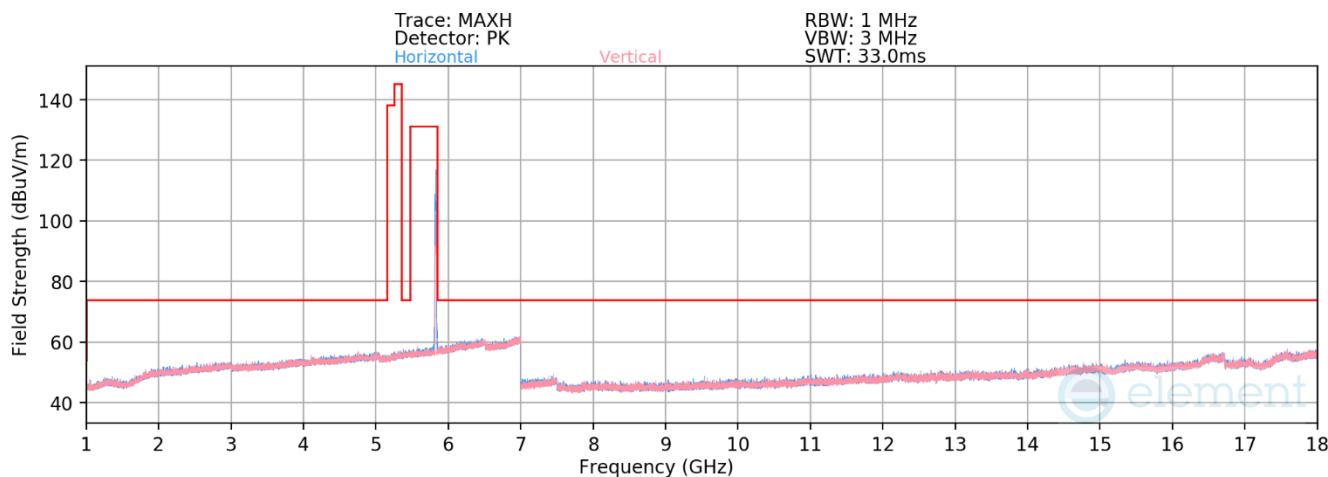
**Plot 7-407. RSE above 1GHz Antenna WF5b (11ax – Ch.157 – RU26)**

Mode:	802.11ax (20MHz BW)
Data Rate:	MCS11
RU Index:	4
Distance of Measurements:	3 Meters
Operating Frequency:	5785MHz
Channel:	157

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
* 11570.00	Average	H	-	-	-80.73	10.97	37.24	53.98	-16.74
* 11570.00	Peak	H	-	-	-68.90	10.97	49.07	73.98	-24.91
17355.00	Peak	H	-	-	-72.11	19.31	54.20	68.20	-14.00

**Table 7-129. Radiated Measurements Antenna WF5b (RU26)**

FCC ID: BCGA2435 IC: 579C-A2435	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090025-20.BCG	Test Dates: 05/30/2022-09/12/2022	EUT Type: Tablet Device	Page 162 of 289



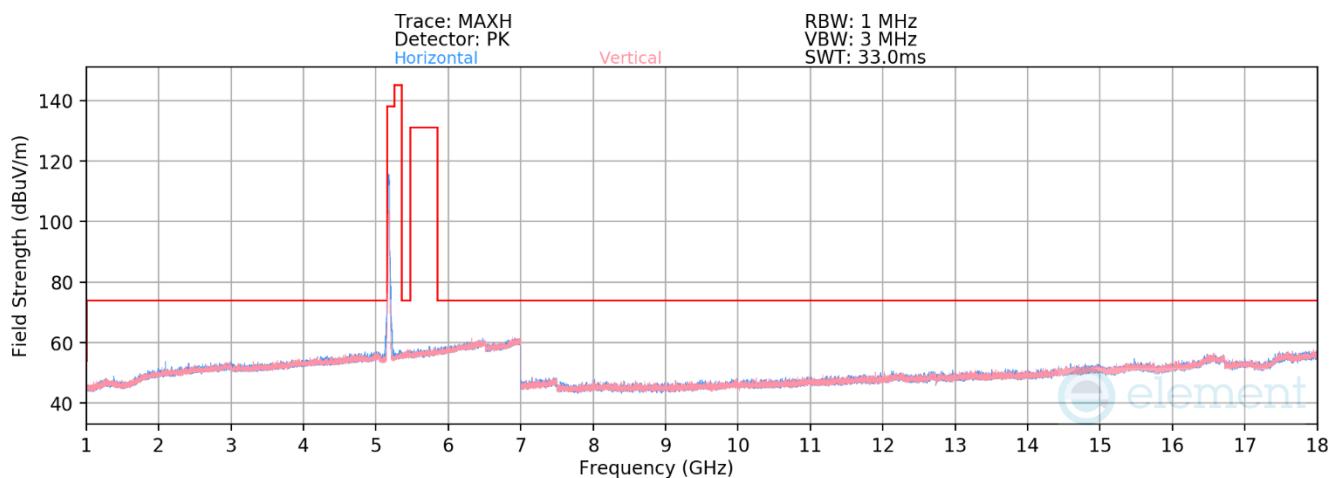
**Plot 7-408. RSE above 1GHz Antenna WF5b (11ax – Ch.165 – RU26)**

Mode: 802.11ax (20MHz BW)  
 Data Rate: MCS11  
 RU Index: 4  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5825MHz  
 Channel: 165

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
* 11650.00	Average	H	-	-	-80.76	11.13	37.37	53.98	-16.61
* 11650.00	Peak	H	-	-	-69.19	11.13	48.94	73.98	-25.04
17475.00	Peak	H	-	-	-71.84	21.67	56.83	68.20	-11.37

**Table 7-130. Radiated Measurements Antenna WF5b (RU26)**

FCC ID: BCGA2435 IC: 579C-A2435	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090025-20.BCG	Test Dates: 05/30/2022-09/12/2022	EUT Type: Tablet Device	Page 163 of 289

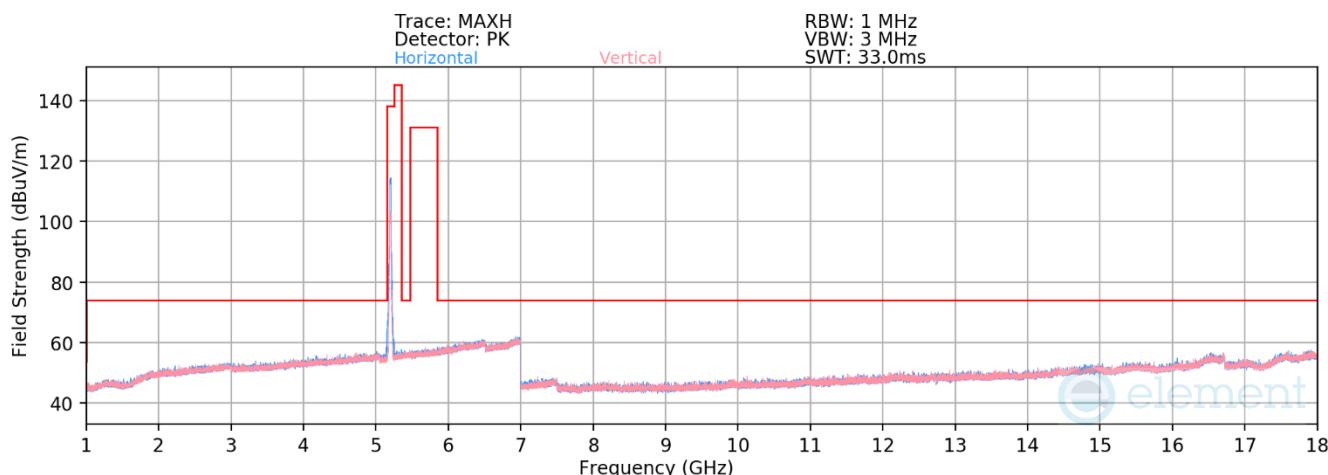
**RU242**

**Plot 7-409. RSE above 1GHz Antenna WF5b (11ax – Ch.36 – RU242)**

Mode: 802.11ax (20MHz BW)  
 Data Rate: MCS11  
 RU Index: 61  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5180MHz  
 Channel: 36

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
10360.00	Peak	H	-	-	-70.17	10.05	46.88	68.20	-21.32
* 15540.00	Average	H	-	-	-82.88	15.23	39.35	53.98	-14.63
* 15540.00	Peak	H	-	-	-71.12	15.23	51.11	73.98	-22.87

**Table 7-131. Radiated Measurements Antenna WF5b (RU242)**

FCC ID: BCGA2435 IC: 579C-A2435	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090025-20.BCG	Test Dates: 05/30/2022-09/12/2022	EUT Type: Tablet Device	Page 164 of 289



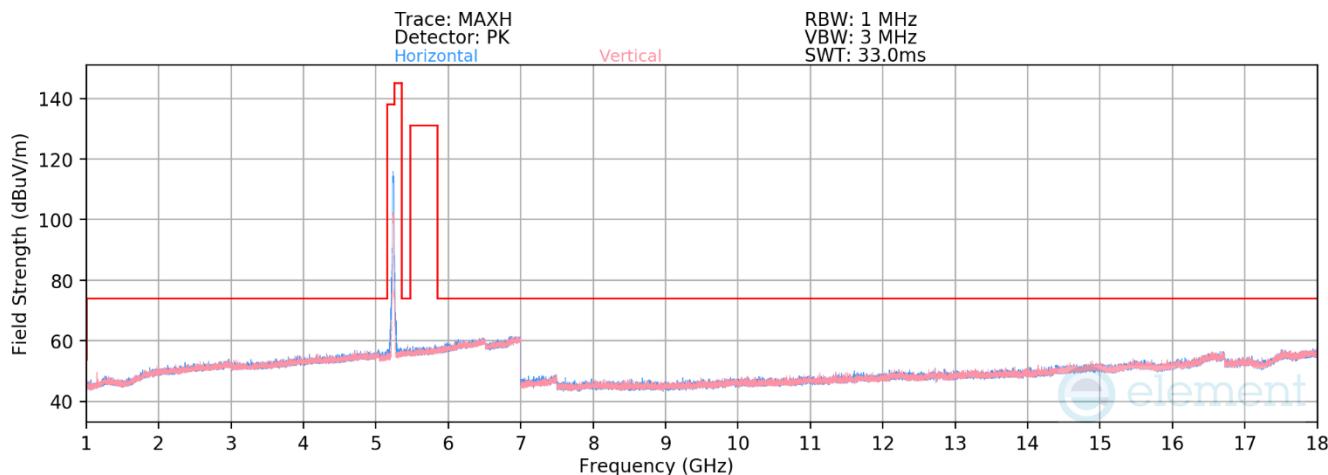
**Plot 7-410. RSE above 1GHz Antenna WF5b (11ax – Ch.40 – RU242)**

Mode:	802.11ax (20MHz BW)
Data Rate:	MCS11
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	5200MHz
Channel:	40

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
10400.00	Peak	H	-	-	-69.55	9.87	47.32	68.20	-20.88
* 15600.00	Average	H	-	-	-82.56	14.80	39.24	53.98	-14.74
* 15600.00	Peak	H	-	-	-71.32	14.80	50.48	73.98	-23.50

**Table 7-132. Radiated Measurements Antenna WF5b (RU242)**

FCC ID: BCGA2435 IC: 579C-A2435	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090025-20.BCG	Test Dates: 05/30/2022-09/12/2022	EUT Type: Tablet Device	Page 165 of 289



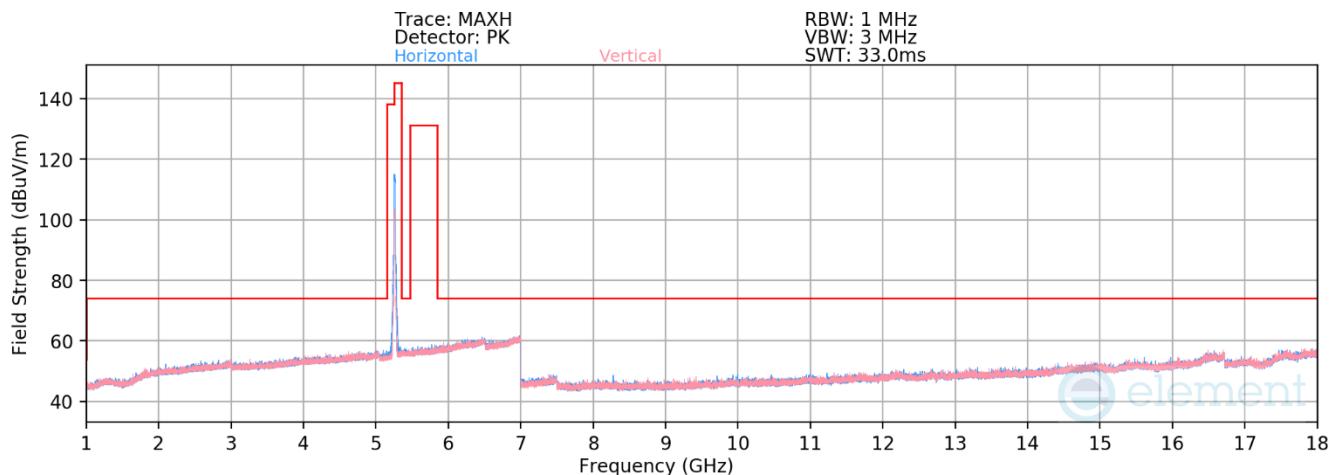
**Plot 7-411. RSE above 1GHz Antenna WF5b (11ax – Ch.48 – RU242)**

Mode: 802.11ax (20MHz BW)  
 Data Rate: MCS11  
 RU Index: 61  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5240MHz  
 Channel: 48

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
10480.00	Peak	H	-	-	-70.38	10.13	46.75	68.20	-21.45
* 15720.00	Average	H	-	-	-82.26	14.34	39.08	53.98	-14.90
* 15720.00	Peak	H	-	-	-71.22	14.34	50.12	73.98	-23.86

**Table 7-133. Radiated Measurements Antenna WF5b (RU242)**

FCC ID: BCGA2435 IC: 579C-A2435	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090025-20.BCG	Test Dates: 05/30/2022-09/12/2022	EUT Type: Tablet Device	Page 166 of 289



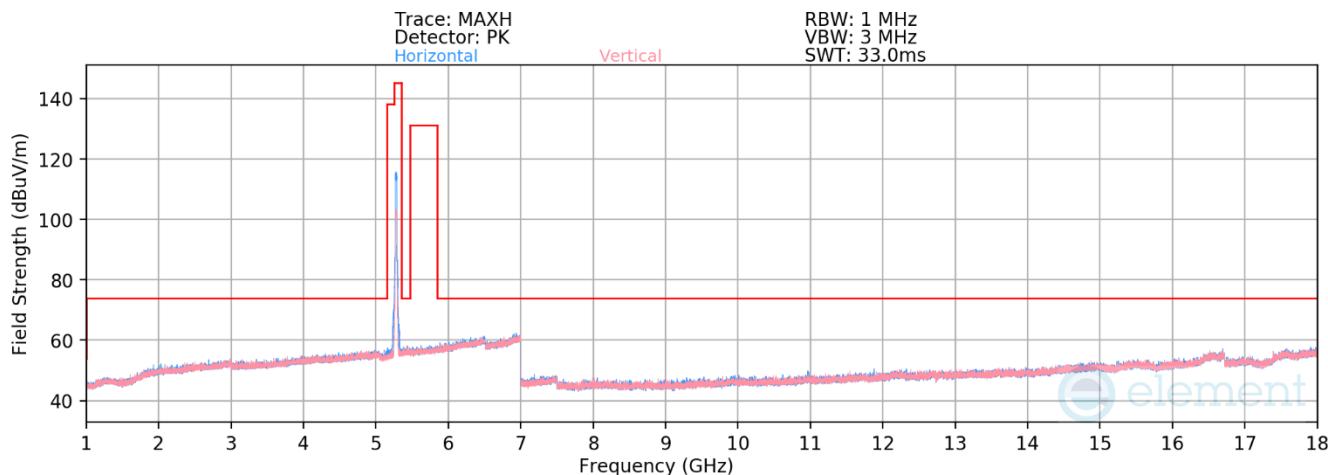
**Plot 7-412. RSE above 1GHz Antenna WF5b (11ax – Ch.52 – RU242)**

Mode: 802.11ax (20MHz BW)  
 Data Rate: MCS11  
 RU Index: 61  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5260MHz  
 Channel: 52

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
10520.00	Peak	H	-	-	-69.81	10.37	47.56	68.20	-20.64
* 15780.00	Average	H	-	-	-82.36	14.19	38.83	53.98	-15.15
* 15780.00	Peak	H	-	-	-71.00	14.19	50.19	73.98	-23.79

**Table 7-134. Radiated Measurements Antenna WF5b (RU242)**

FCC ID: BCGA2435 IC: 579C-A2435	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090025-20.BCG	Test Dates: 05/30/2022-09/12/2022	EUT Type: Tablet Device	Page 167 of 289



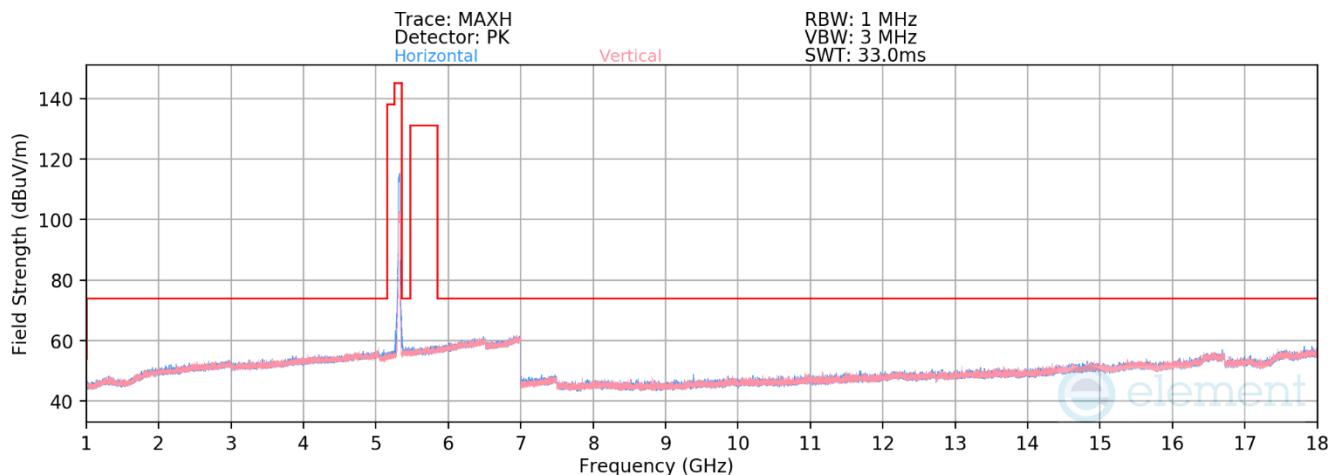
**Plot 7-413. RSE above 1GHz Antenna WF5b (11ax – Ch.56 – RU242)**

Mode:	802.11ax (20MHz BW)
Data Rate:	MCS11
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	5280MHz
Channel:	56

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
10560.00	Peak	H	-	-	-69.96	9.92	46.96	68.20	-21.24
* 15840.00	Average	H	-	-	-82.01	14.45	39.44	53.98	-14.54
* 15840.00	Peak	H	-	-	-70.54	14.45	50.91	73.98	-23.07

**Table 7-135. Radiated Measurements Antenna WF5b (RU242)**

FCC ID: BCGA2435 IC: 579C-A2435	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090025-20.BCG	Test Dates: 05/30/2022-09/12/2022	EUT Type: Tablet Device	Page 168 of 289



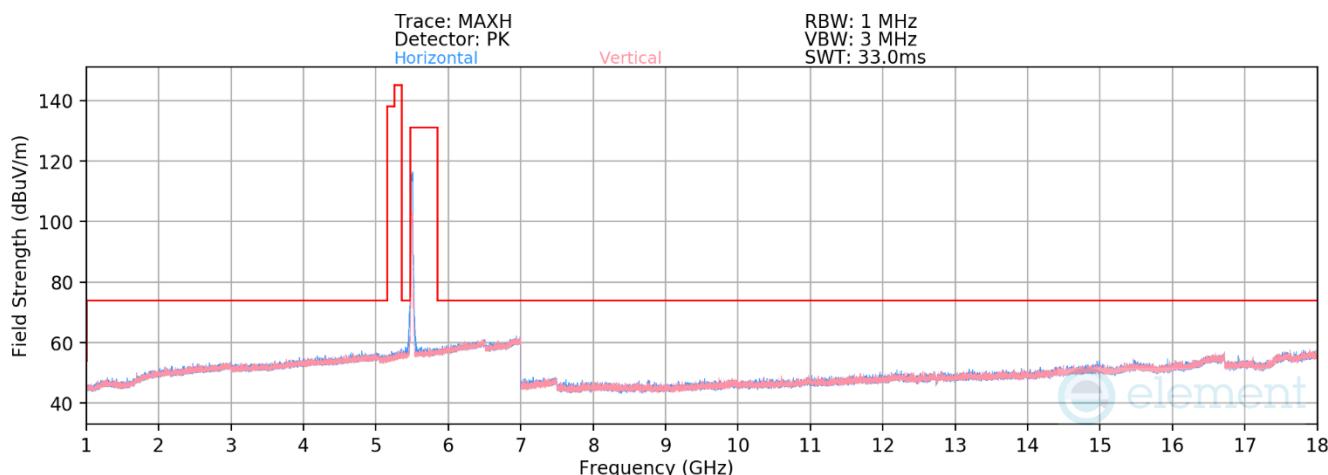
**Plot 7-414. RSE above 1GHz Antenna WF5b (11ax – Ch.64 – RU242)**

Mode: 802.11ax (20MHz BW)  
 Data Rate: MCS11  
 RU Index: 61  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5320MHz  
 Channel: 64

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
* 10640.00	Average	H	-	-	-81.46	10.13	35.67	53.98	-18.31
* 10640.00	Peak	H	-	-	-69.95	10.13	47.18	73.98	-26.80
* 15960.00	Average	H	-	-	-82.23	14.94	39.71	53.98	-14.27
* 15960.00	Peak	H	-	-	-70.51	14.94	51.43	73.98	-22.55

**Table 7-136. Radiated Measurements Antenna WF5b (RU242)**

FCC ID: BCGA2435 IC: 579C-A2435	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090025-20.BCG	Test Dates: 05/30/2022-09/12/2022	EUT Type: Tablet Device	Page 169 of 289



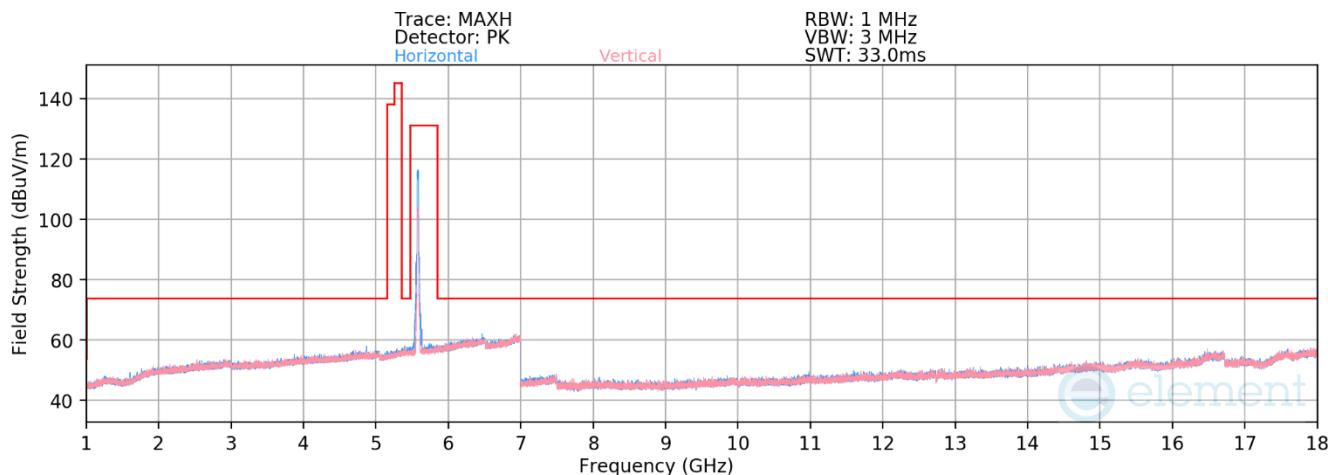
**Plot 7-415. RSE above 1GHz Antenna WF5b (11ax – Ch.100 – RU242)**

Mode: 802.11ax (20MHz BW)  
 Data Rate: MCS11  
 RU Index: 61  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5500MHz  
 Channel: 100

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
* 11000.00	Average	H	-	-	-81.47	10.96	36.49	53.98	-17.49
* 11000.00	Peak	H	-	-	-70.51	10.96	47.45	73.98	-26.53
16500.00	Peak	H	-	-	-72.14	17.98	52.84	68.20	-15.36

**Table 7-137. Radiated Measurements Antenna WF5b (RU242)**

FCC ID: BCGA2435 IC: 579C-A2435	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090025-20.BCG	Test Dates: 05/30/2022-09/12/2022	EUT Type: Tablet Device	Page 170 of 289



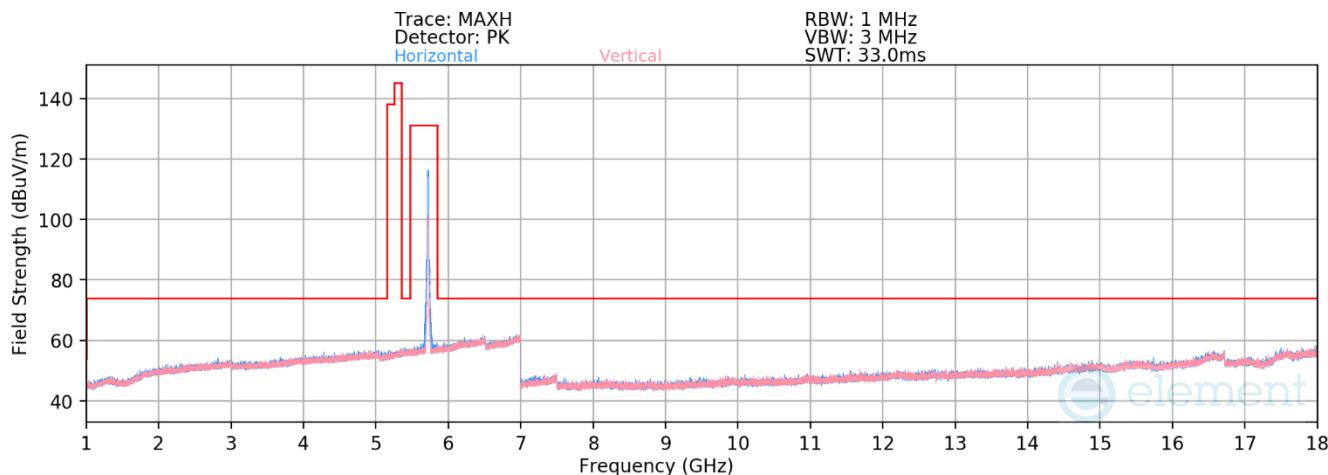
**Plot 7-416. RSE above 1GHz Antenna WF5b (11ax – Ch.116 – RU242)**

Mode: 802.11ax (20MHz BW)  
 Data Rate: MCS11  
 RU Index: 61  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5580MHz  
 Channel: 116

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
* 11160.00	Average	H	-	-	-81.05	10.39	36.34	53.98	-17.64
* 11160.00	Peak	H	-	-	-69.97	10.39	47.42	73.98	-26.56
16740.00	Peak	H	-	-	-71.51	17.57	53.06	68.20	-15.14

**Table 7-138. Radiated Measurements Antenna WF5b (RU242)**

FCC ID: BCGA2435 IC: 579C-A2435	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090025-20.BCG	Test Dates: 05/30/2022-09/12/2022	EUT Type: Tablet Device	Page 171 of 289



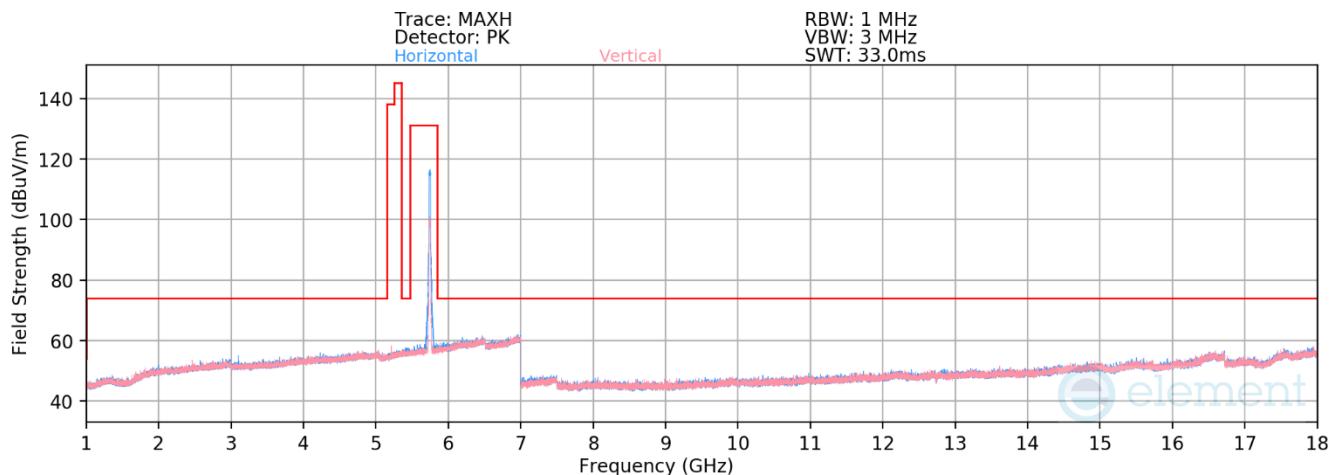
**Plot 7-417. RSE above 1GHz Antenna WF5b (11ax – Ch.144 – RU242)**

Mode: 802.11ax (20MHz BW)  
 Data Rate: MCS11  
 RU Index: 61  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5720MHz  
 Channel: 144

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
* 11440.00	Average	H	-	-	-81.38	10.79	36.41	53.98	-17.57
* 11440.00	Peak	H	-	-	-69.89	10.79	47.90	73.98	-26.08
17160.00	Peak	H	-	-	-72.54	18.62	53.08	68.20	-15.12

**Table 7-139. Radiated Measurements Antenna WF5b (RU242)**

FCC ID: BCGA2435 IC: 579C-A2435	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090025-20.BCG	Test Dates: 05/30/2022-09/12/2022	EUT Type: Tablet Device	Page 172 of 289

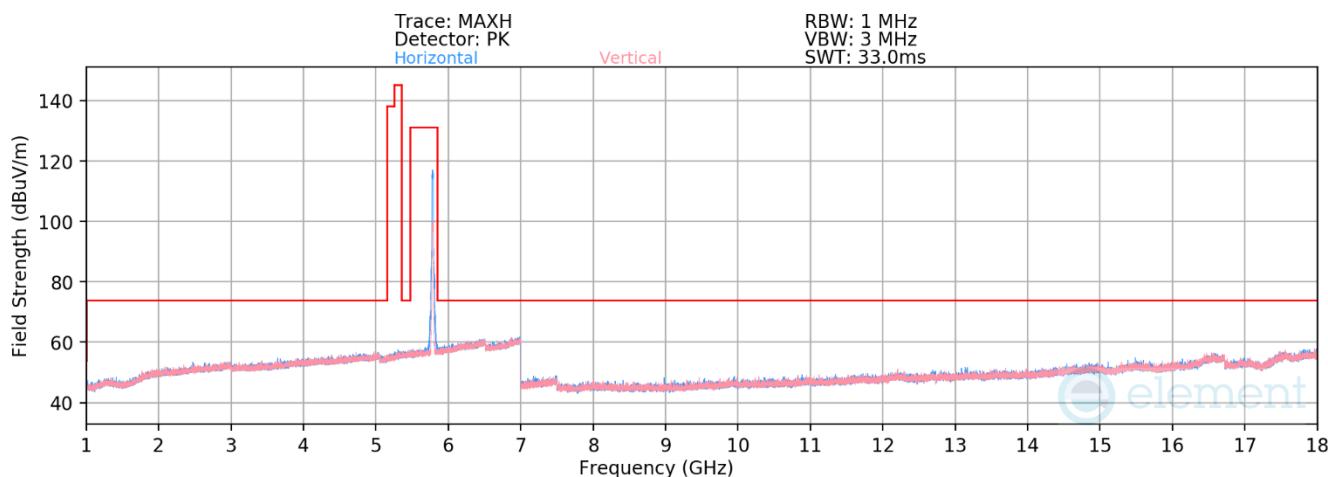

**Plot 7-418. RSE above 1GHz Antenna WF5b (11ax – Ch.149 – RU242)**

Mode: 802.11ax (20MHz BW)  
 Data Rate: MCS11  
 RU Index: 61  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5745MHz  
 Channel: 149

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
* 11490.00	Average	H	-	-	-81.38	10.82	36.44	53.98	-17.54
* 11490.00	Peak	H	-	-	-69.94	10.82	47.88	73.98	-26.10
17235.00	Peak	H	-	-	-72.90	18.44	52.54	68.20	-15.66

**Table 7-140. Radiated Measurements Antenna WF5b (RU242)**

FCC ID: BCGA2435 IC: 579C-A2435	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090025-20.BCG	Test Dates: 05/30/2022-09/12/2022	EUT Type: Tablet Device	Page 173 of 289



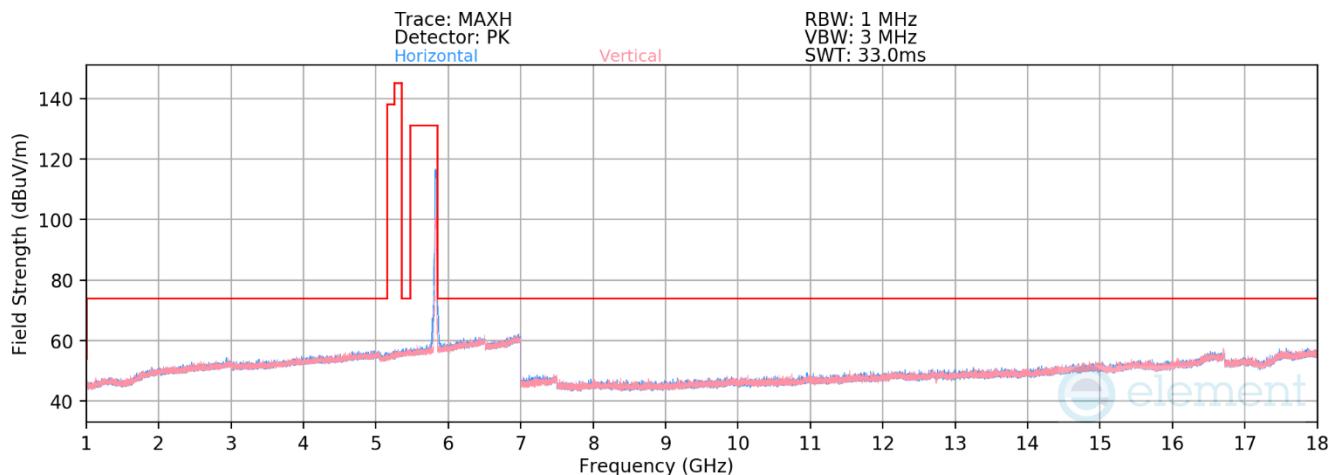
**Plot 7-419. RSE above 1GHz Antenna WF5b (11ax – Ch.157 – RU242)**

Mode: 802.11ax (20MHz BW)  
 Data Rate: MCS11  
 RU Index: 61  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5785MHz  
 Channel: 157

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
* 11570.00	Average	H	-	-	-81.59	10.97	36.38	53.98	-17.60
* 11570.00	Peak	H	-	-	-69.74	10.97	48.23	73.98	-25.75
17355.00	Peak	H	-	-	-73.24	19.31	53.07	68.20	-15.13

**Table 7-141. Radiated Measurements Antenna WF5b (RU242)**

FCC ID: BCGA2435 IC: 579C-A2435	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090025-20.BCG	Test Dates: 05/30/2022-09/12/2022	EUT Type: Tablet Device	Page 174 of 289



**Plot 7-420. RSE above 1GHz Antenna WF5b (11ax – Ch.165 – RU242)**

Mode: 802.11ax (20MHz BW)  
 Data Rate: MCS11  
 RU Index: 61  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5825MHz  
 Channel: 165

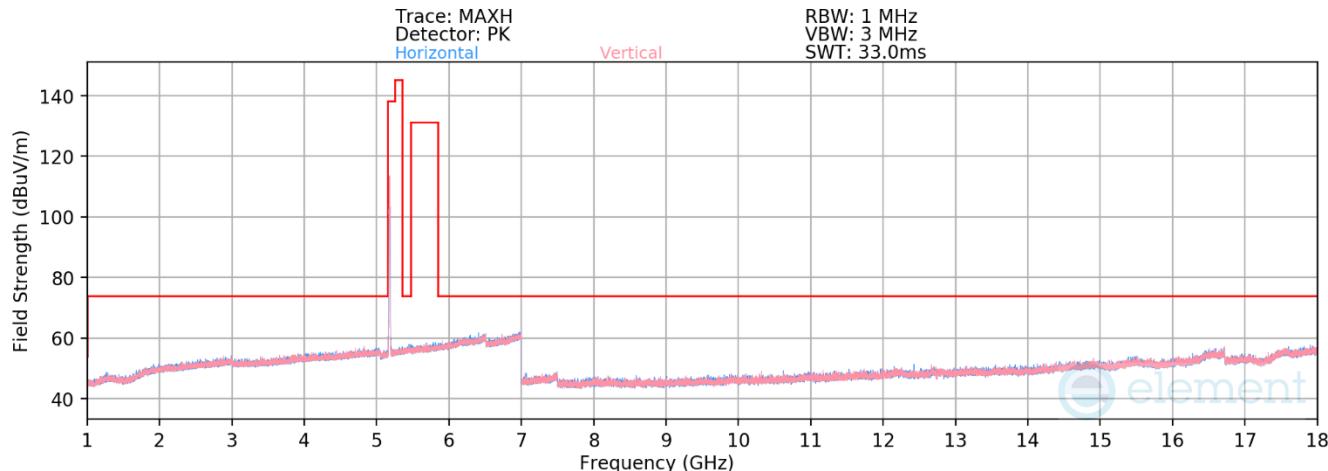
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
* 11650.00	Average	H	-	-	-81.47	11.13	36.66	53.98	-17.32
* 11650.00	Peak	H	-	-	-70.04	11.13	48.09	73.98	-25.89
17475.00	Peak	H	-	-	-73.67	21.67	55.00	68.20	-13.20

**Table 7-142. Radiated Measurements Antenna WF5b (RU242)**

FCC ID: BCGA2435 IC: 579C-A2435	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090025-20.BCG	Test Dates: 05/30/2022-09/12/2022	EUT Type: Tablet Device	Page 175 of 289

## 7.6.2 Antenna WF4a Radiated Spurious Emission

RU26/52



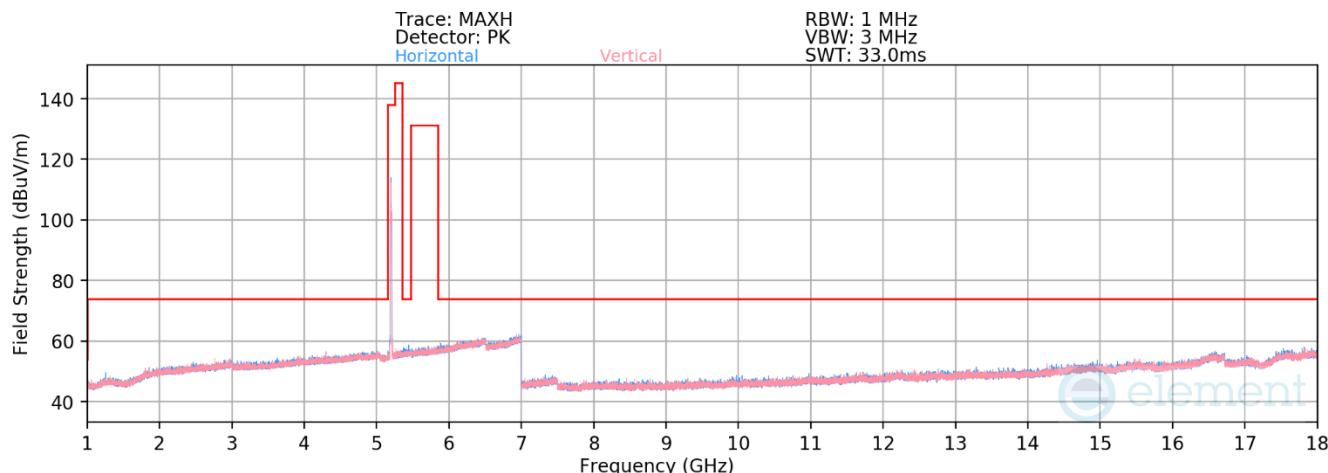
Plot 7-421. RSE above 1GHz Antenna WF4a (11ax – Ch.36 – RU26)

Mode:	802.11ax (20MHz BW)
Data Rate:	MCS11
RU Index:	4
Distance of Measurements:	3 Meters
Operating Frequency:	5180MHz
Channel:	36

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
10360.00	Peak	H	-	-	-68.79	10.05	48.26	68.20	-19.94
* 15540.00	Average	H	-	-	-81.87	15.23	40.36	53.98	-13.62
* 15540.00	Peak	H	-	-	-70.13	15.23	52.10	73.98	-21.88

Table 7-143. Radiated Measurements Antenna WF4a (RU26)

FCC ID: BCGA2435 IC: 579C-A2435	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090025-20.BCG	Test Dates: 05/30/2022-09/12/2022	EUT Type: Tablet Device	Page 176 of 289



**Plot 7-422. RSE above 1GHz Antenna WF4a (11ax – Ch.40 – RU26)**

Mode: 802.11ax (20MHz BW)  
 Data Rate: MCS11  
 RU Index: 4  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5200MHz  
 Channel: 40

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
10400.00	Peak	H	-	-	-68.70	9.87	48.17	68.20	-20.03
15600.00	Average	H	-	-	-81.68	14.80	40.12	53.98	-13.86
*	15600.00	Peak	H	-	-70.18	14.80	51.62	73.98	-22.36

**Table 7-144. Radiated Measurements Antenna WF4a (RU26)**

FCC ID: BCGA2435 IC: 579C-A2435	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090025-20.BCG	Test Dates: 05/30/2022-09/12/2022	EUT Type: Tablet Device	Page 177 of 289