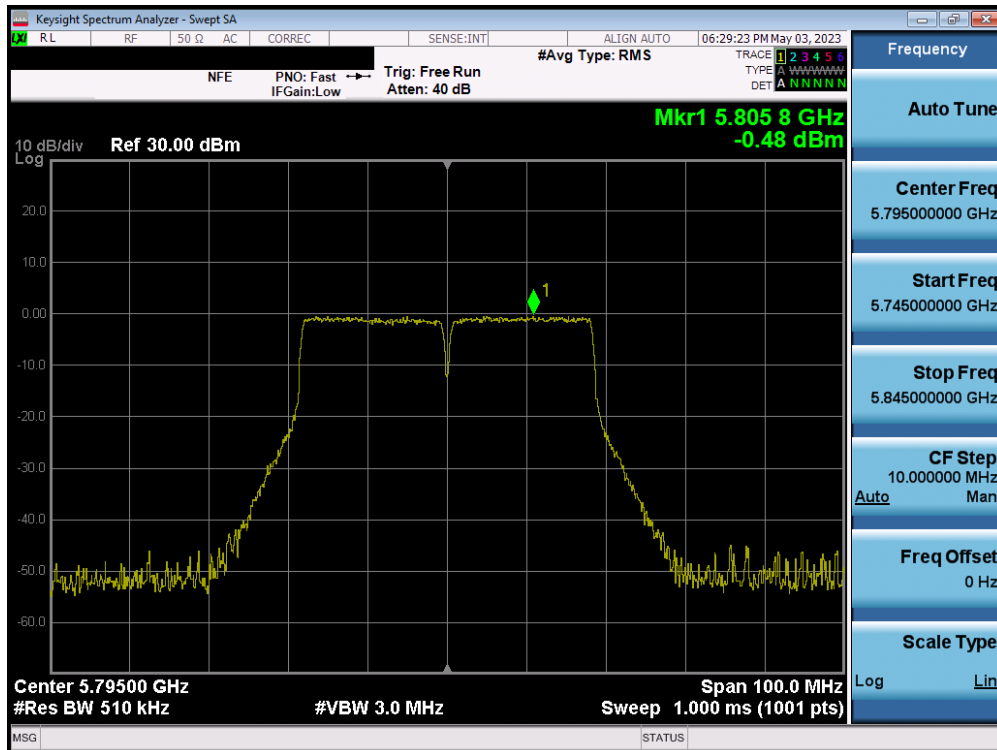
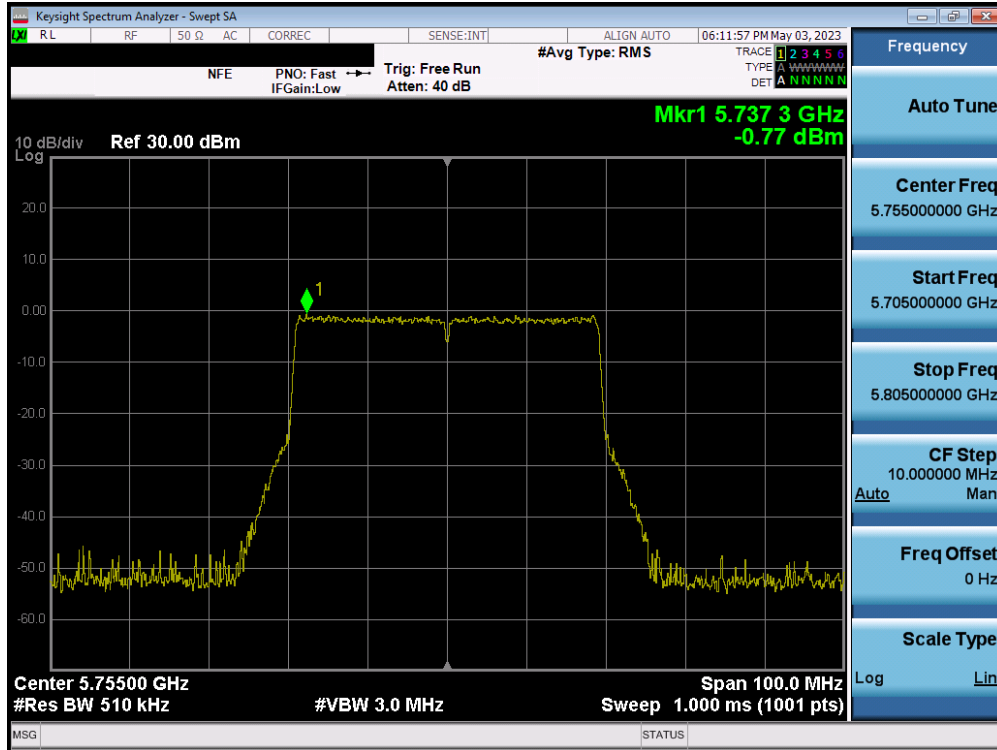


Plot 7-326. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 3) – Ch. 151)

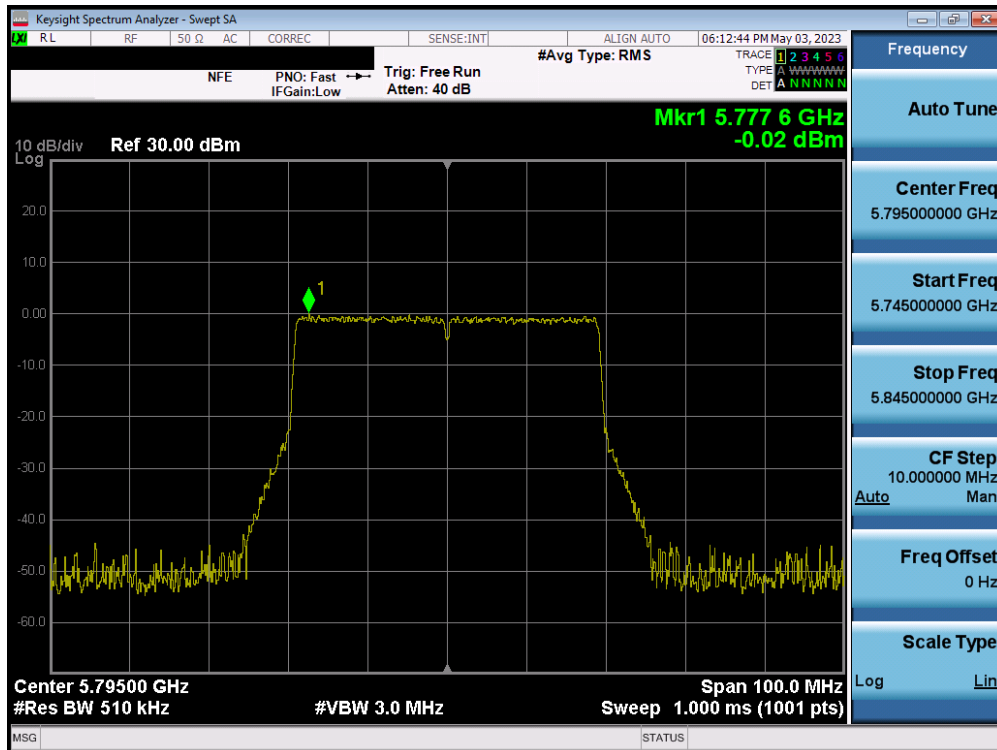


Plot 7-327. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 3) – Ch. 159)

FCC ID: A3LSMX910	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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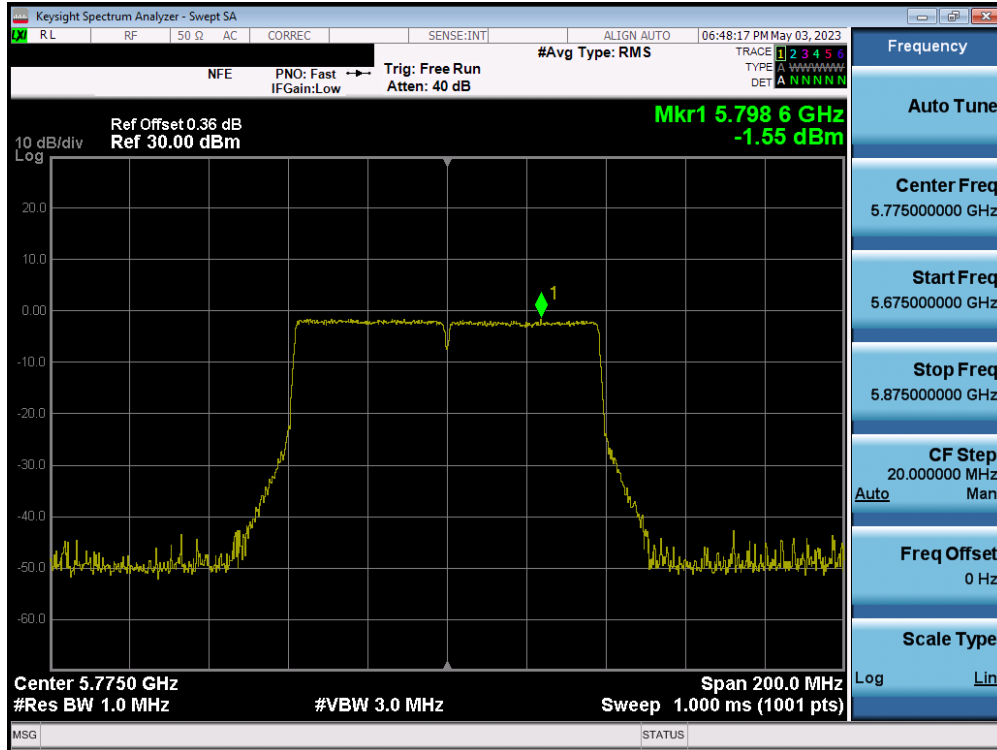


Plot 7-328. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 3) – Ch. 151)

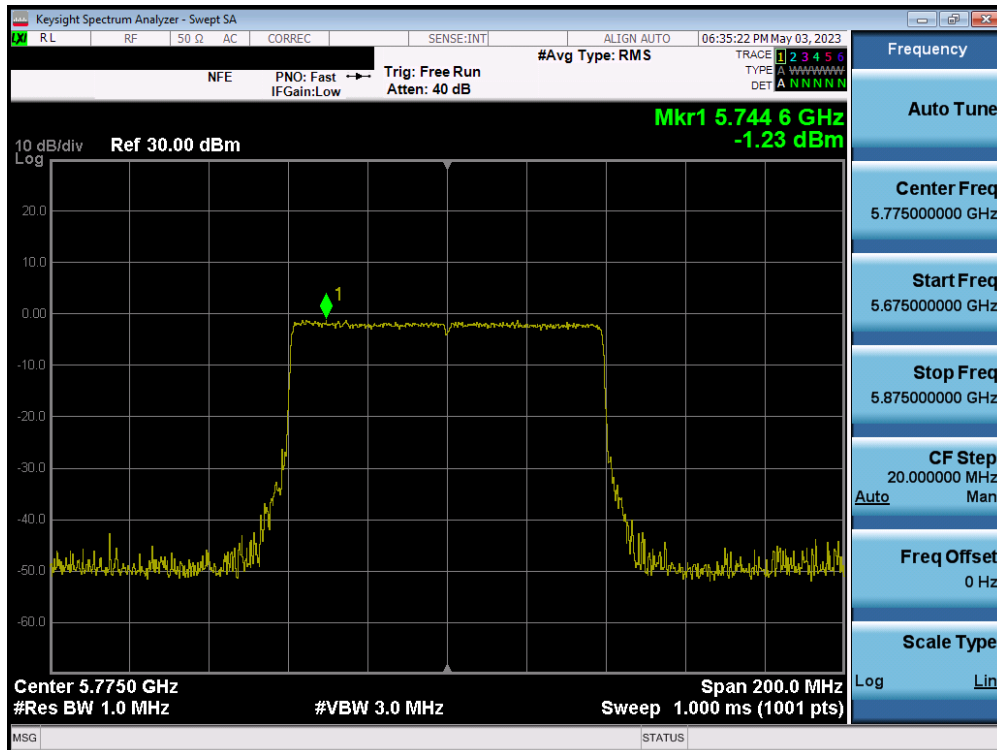


Plot 7-329. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 3) – Ch. 159)

FCC ID: A3LSMX910	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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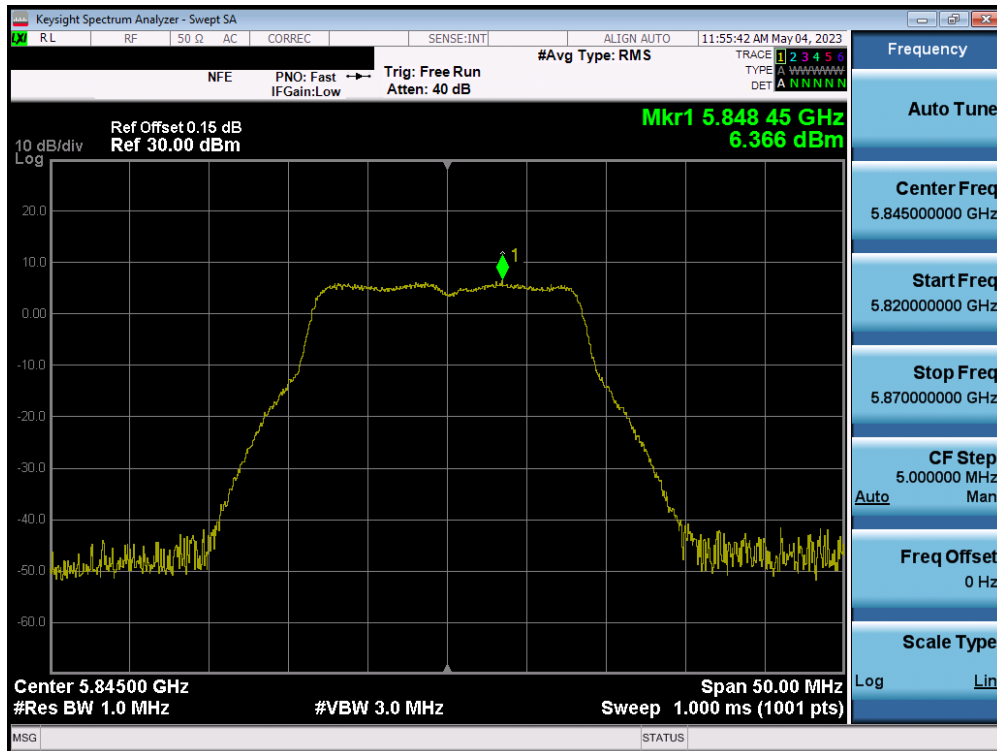


Plot 7-330. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ac (UNII Band 3) – Ch. 155)

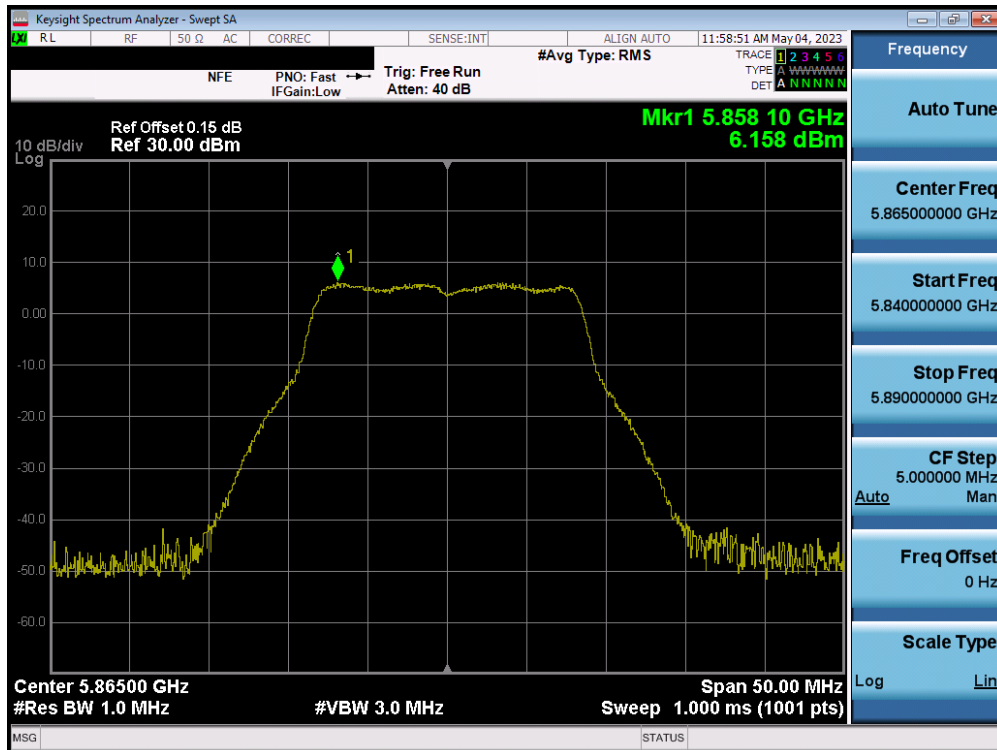


Plot 7-331. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax (UNII Band 3) – Ch. 155)

FCC ID: A3LSMX910	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2303200036-06.A3L	Test Dates: 04/03 - 05/15/2023	EUT Type: Portable Tablet	Page 196 of 255

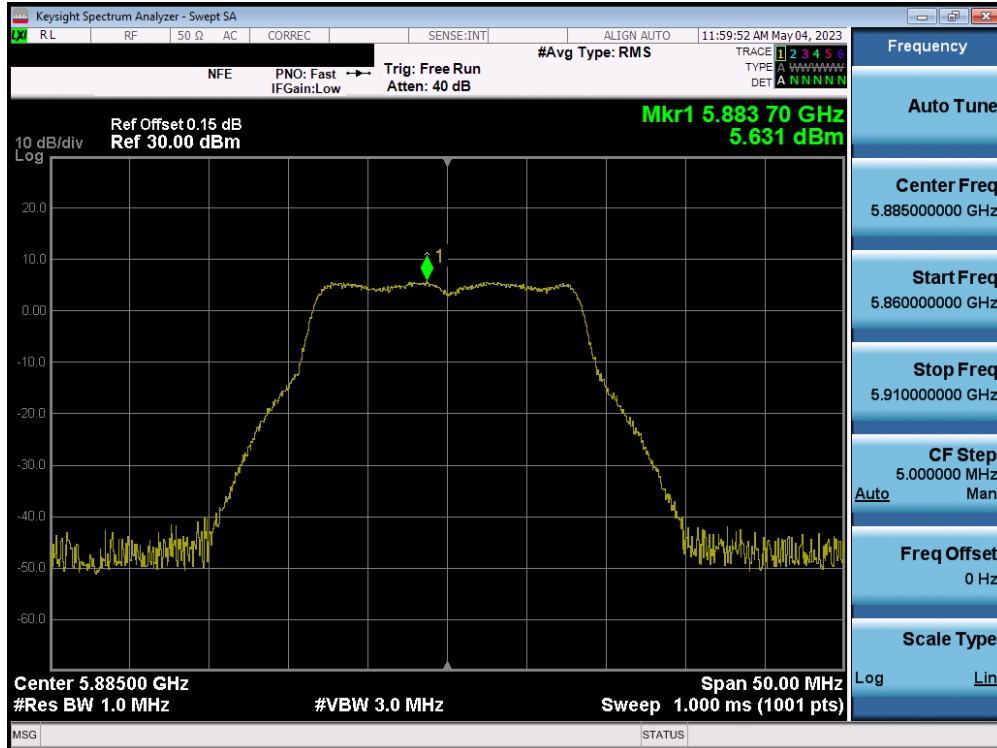


Plot 7-332. Power Spectral Density Plot MIMO ANT2 (802.11a (UNII Band 3/4) – Ch. 169)

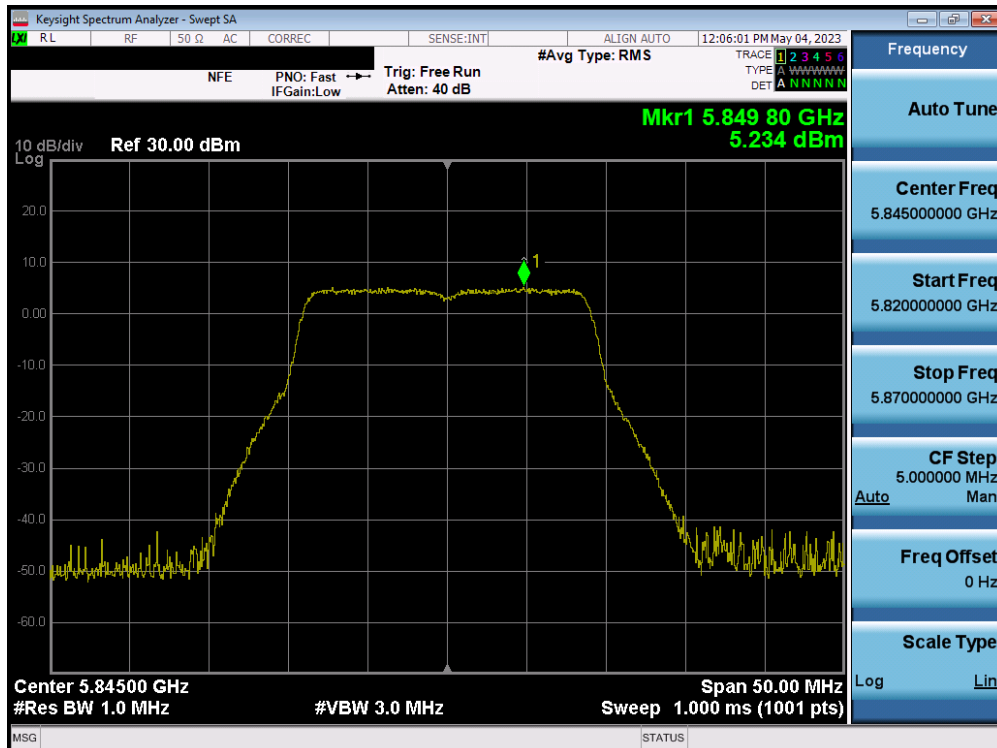


Plot 7-333. Power Spectral Density Plot MIMO ANT2 (802.11a (UNII Band 4) – Ch. 173)

FCC ID: A3LSMX910	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2303200036-06.A3L	Test Dates: 04/03 - 05/15/2023	EUT Type: Portable Tablet	Page 197 of 255

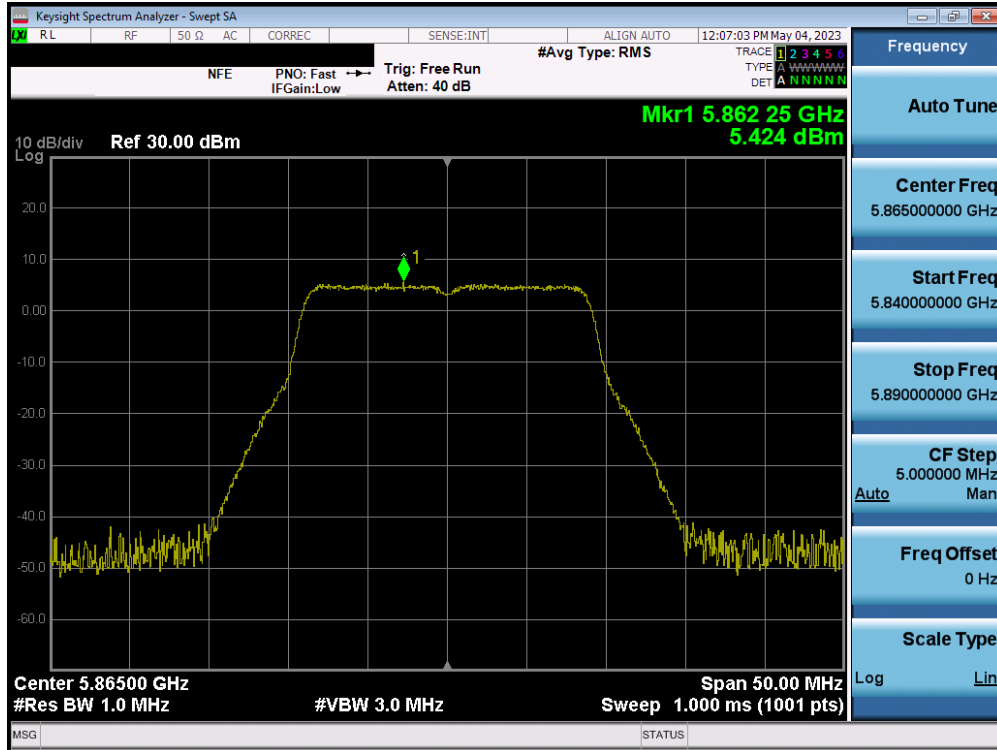


Plot 7-334. Power Spectral Density Plot MIMO ANT2 (802.11a (UNII Band 4) – Ch. 177)

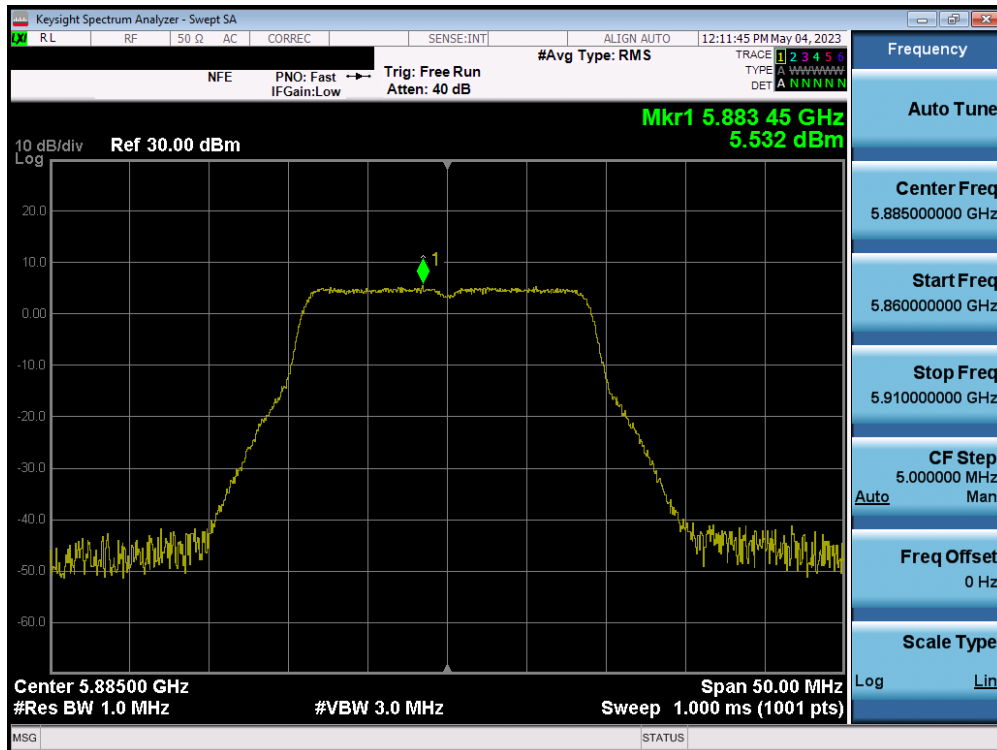


Plot 7-335. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 3/4) – Ch. 169)

FCC ID: A3LSMX910	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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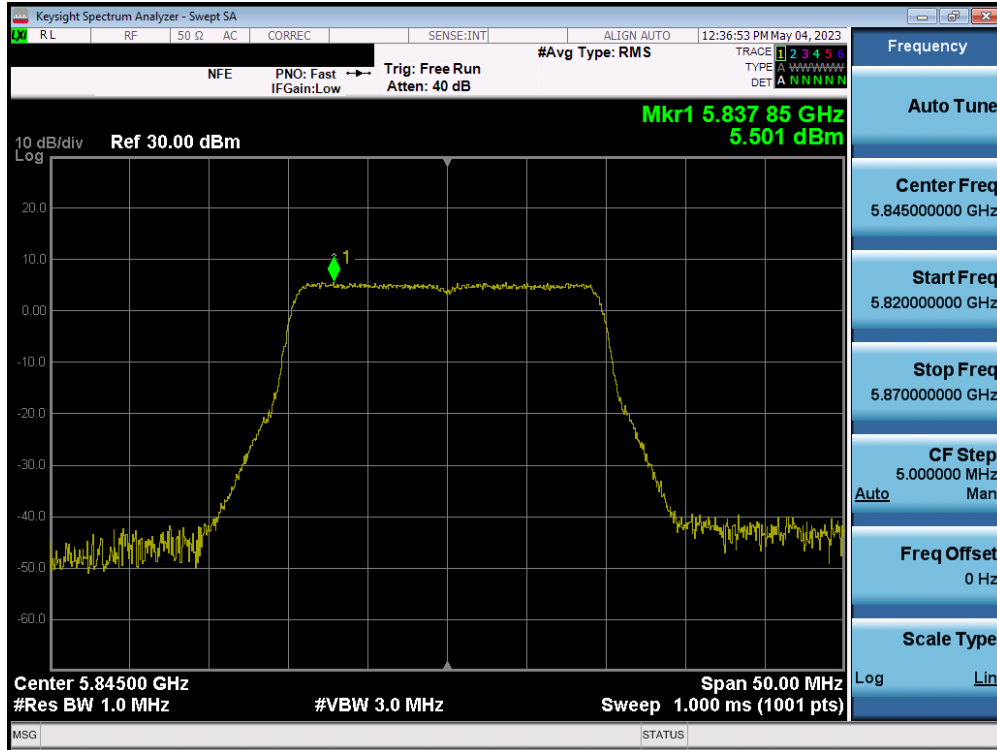


Plot 7-336. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 4) – Ch. 173)

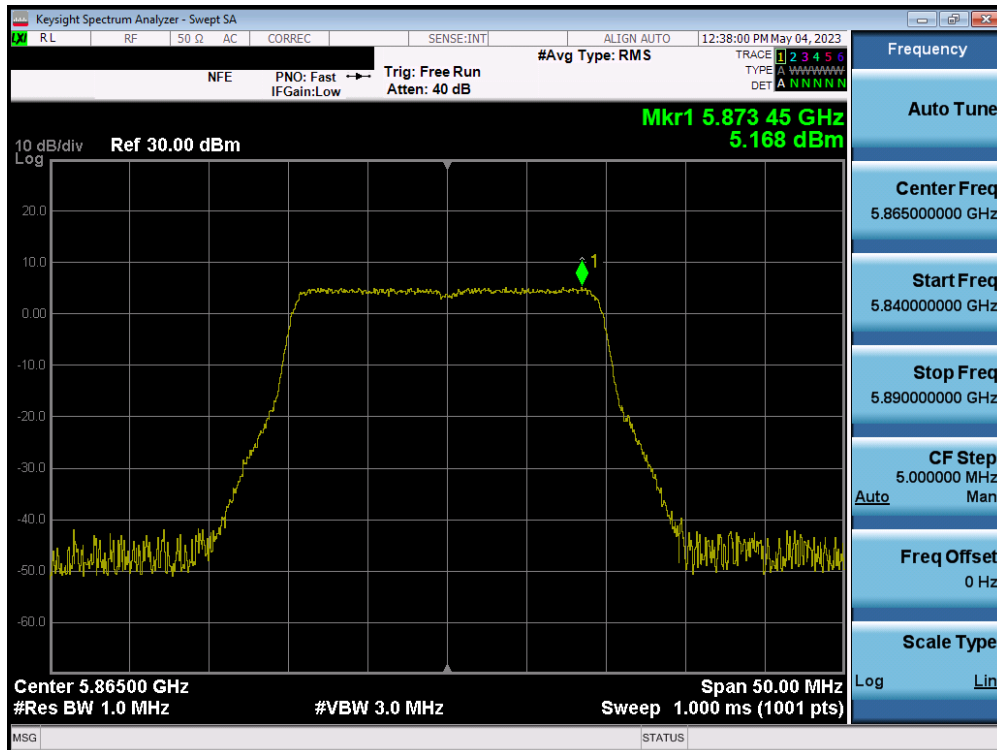


Plot 7-337. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 4) – Ch. 177)

FCC ID: A3LSMX910	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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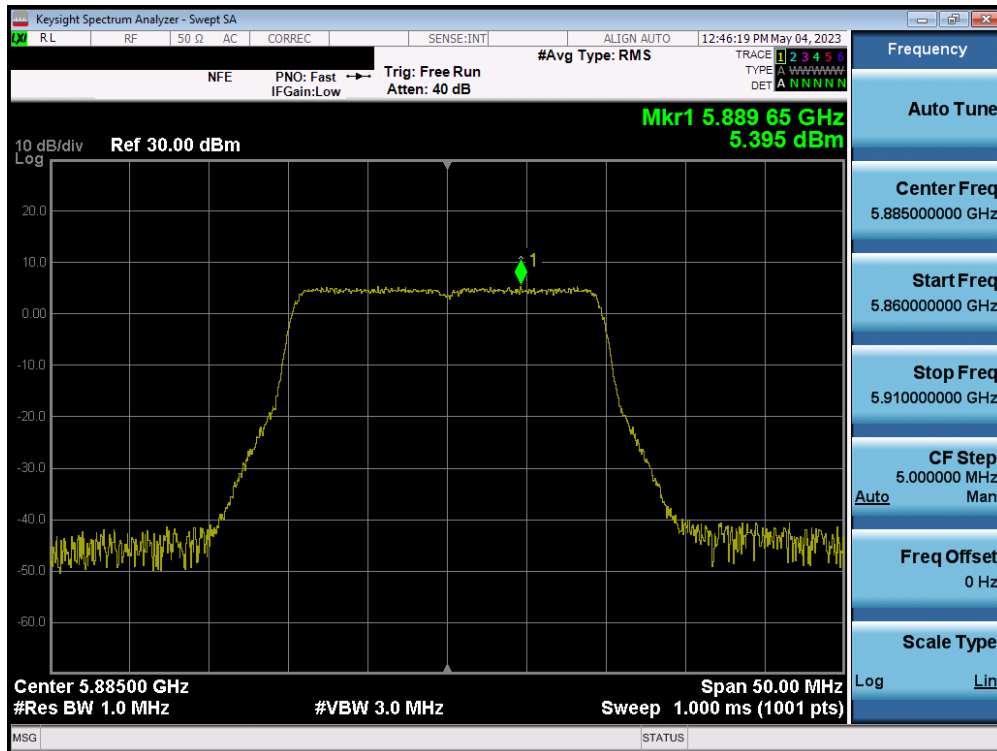


Plot 7-338. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 3/4) – Ch. 169)

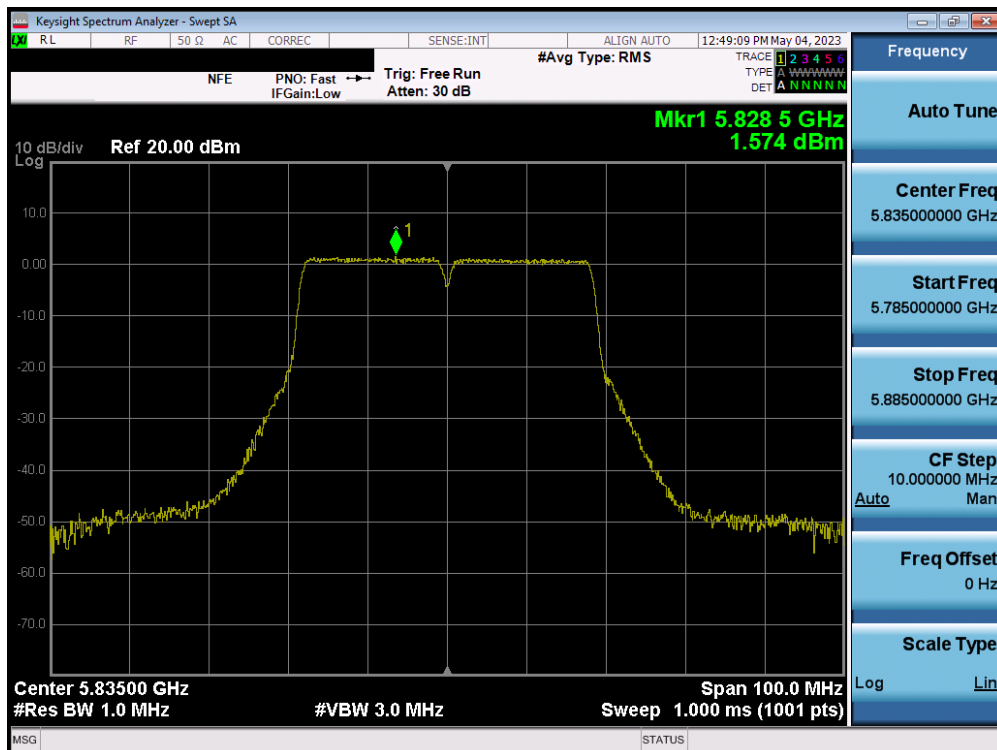


Plot 7-339. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 4) – Ch. 173)

FCC ID: A3LSMX910	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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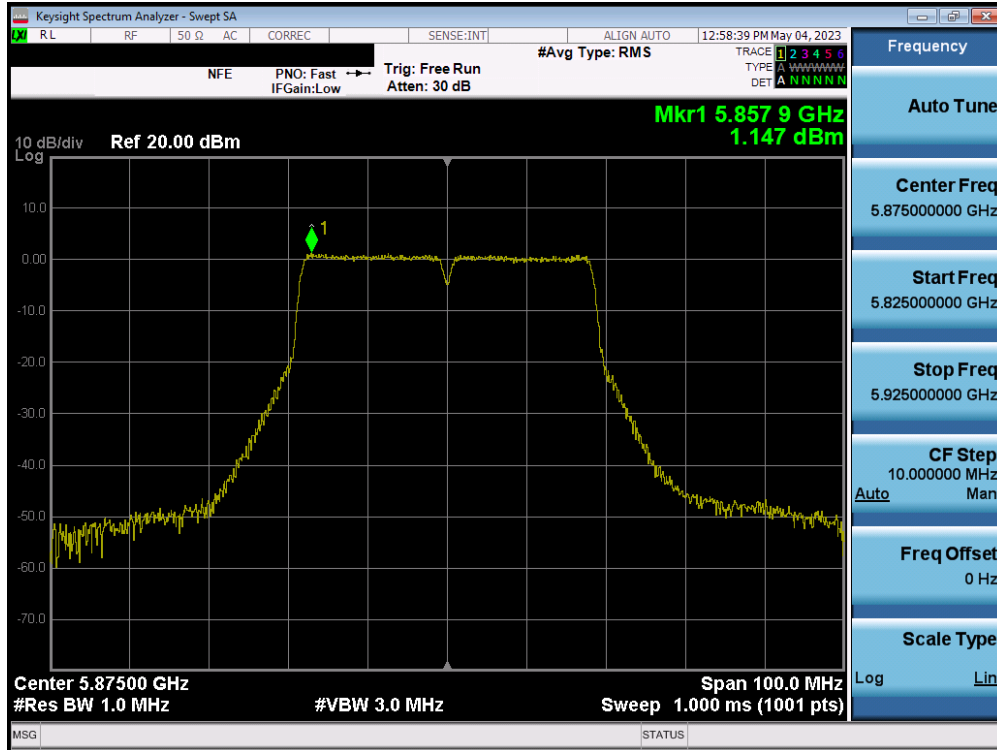


Plot 7-340. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 4) – Ch. 177)

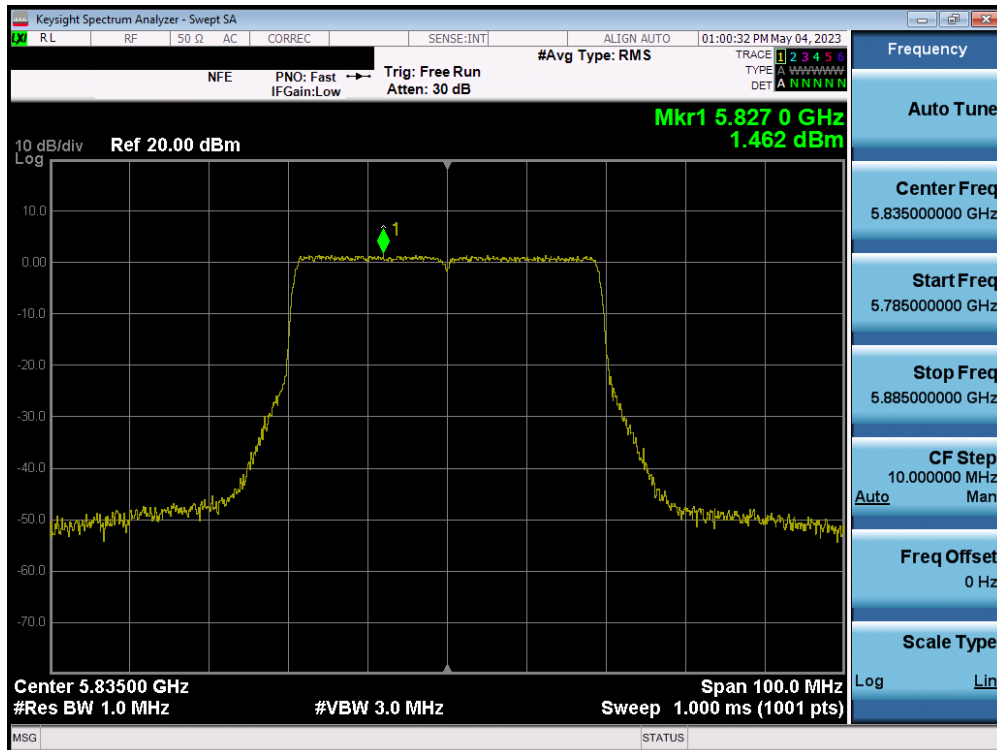


Plot 7-341. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 3/4) – Ch. 167)

FCC ID: A3LSMX910	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2303200036-06.A3L	Test Dates: 04/03 - 05/15/2023	EUT Type: Portable Tablet	Page 201 of 255

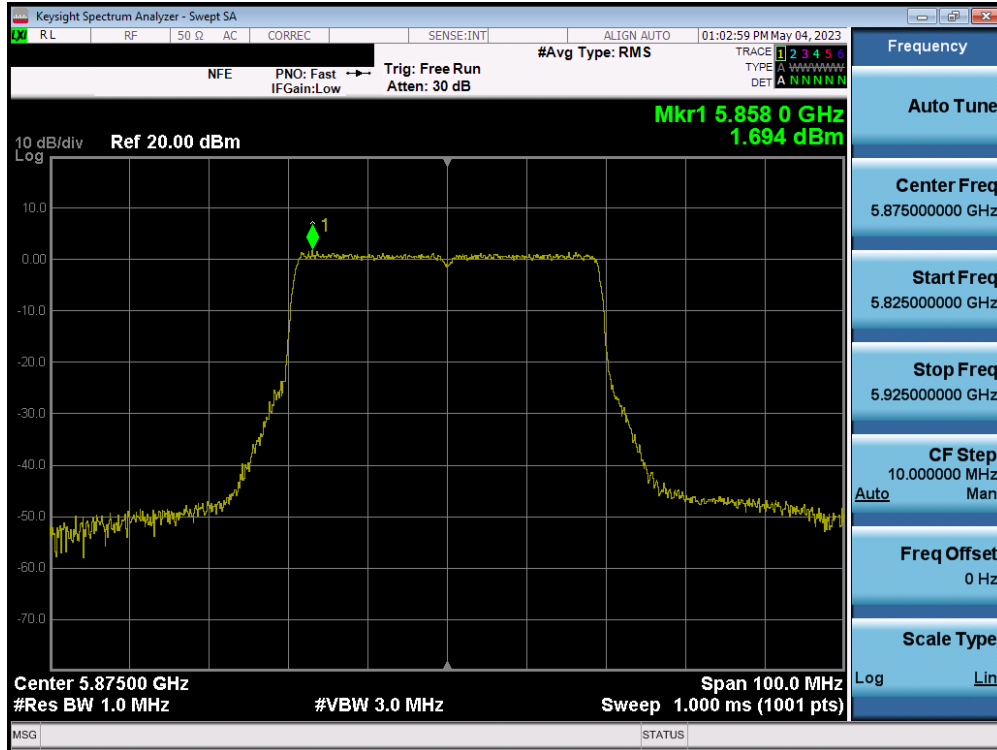


Plot 7-342. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 4) – Ch. 175)

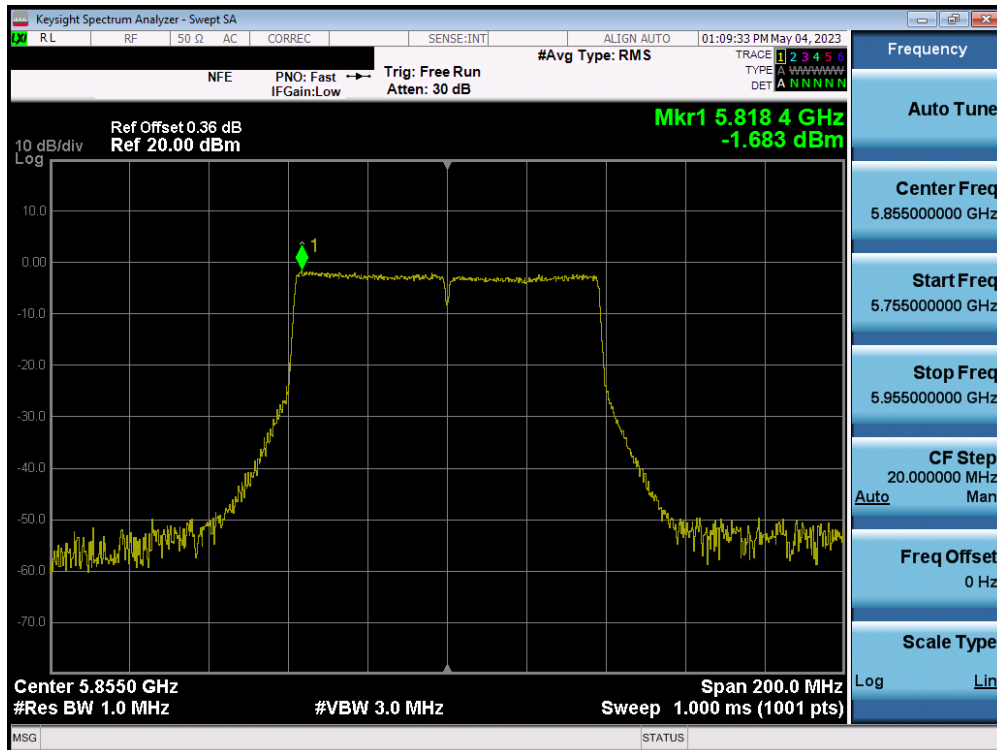


Plot 7-343. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 3/4) – Ch. 167)

FCC ID: A3LSMX910	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2303200036-06.A3L	Test Dates: 04/03 - 05/15/2023	EUT Type: Portable Tablet	Page 202 of 255

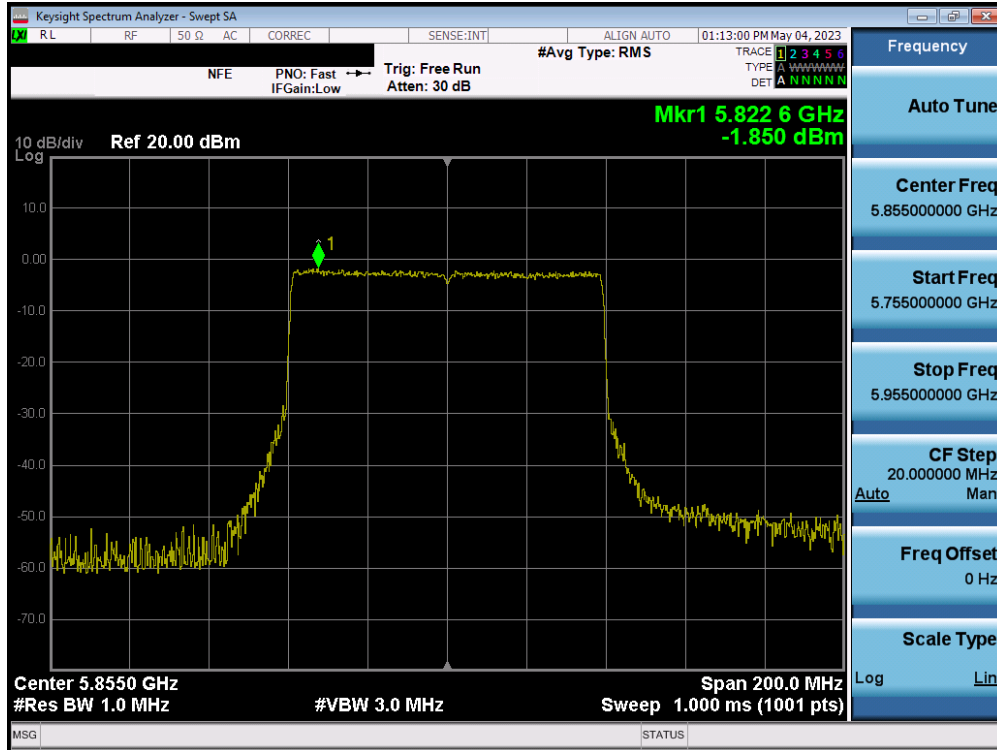


Plot 7-344. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 4) – Ch. 175)

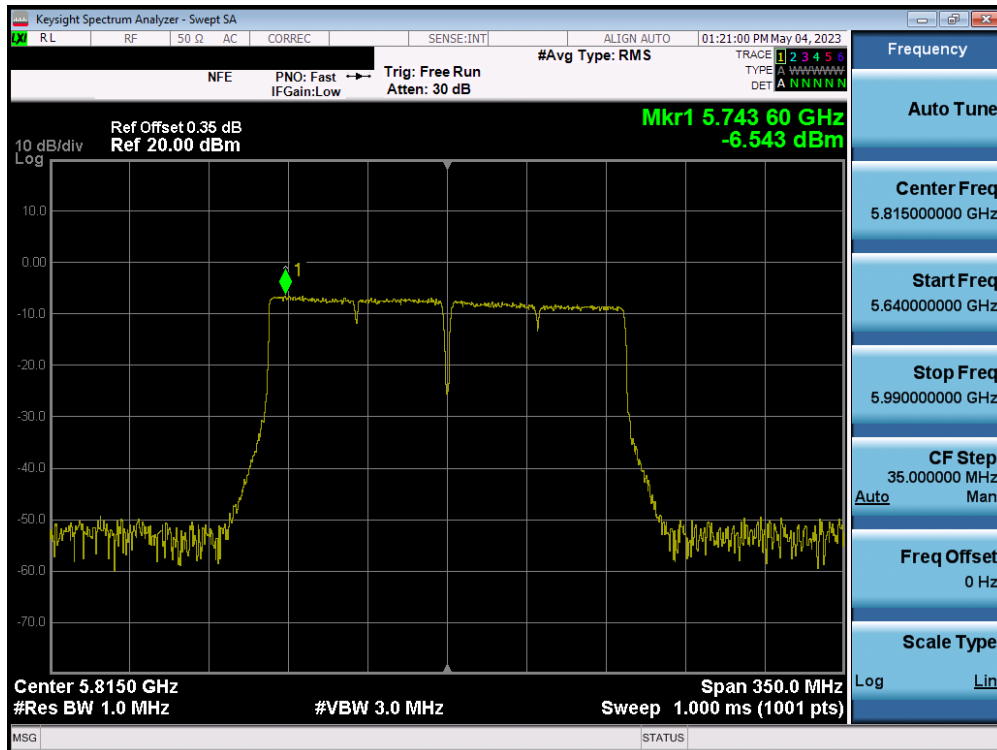


Plot 7-345. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ac (UNII Band 3/4) – Ch. 171)

FCC ID: A3LSMX910	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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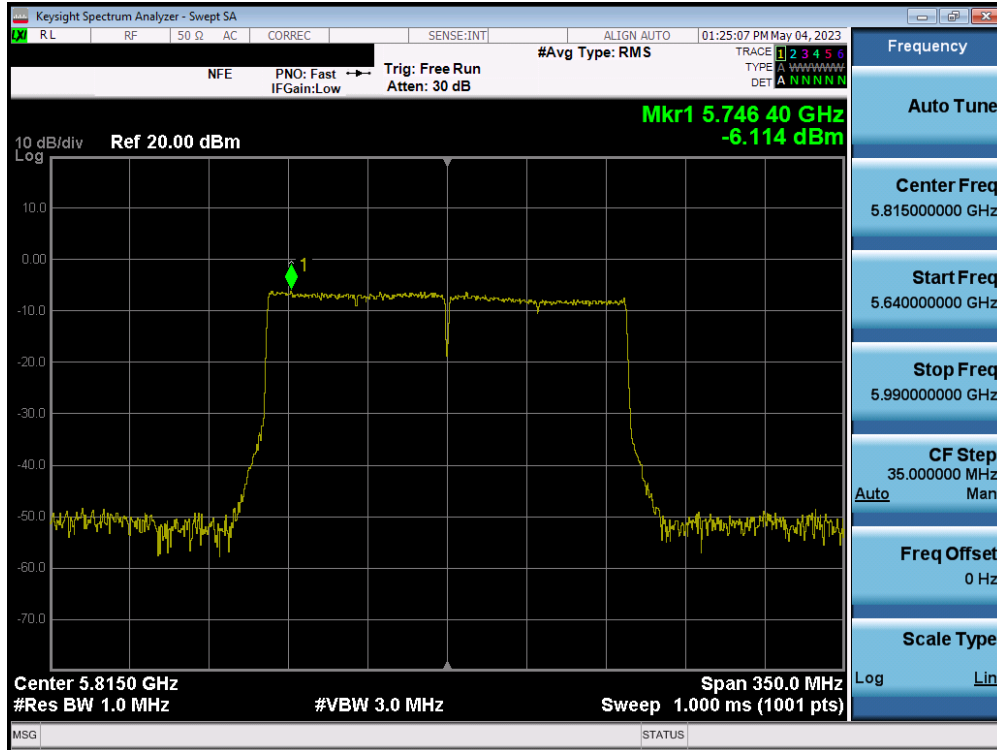


Plot 7-346. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax (UNII Band 3/4) – Ch. 171)



Plot 7-347. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802.11ac (UNII Band 3/4) – Ch. 163)

FCC ID: A3LSMX910	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-348. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802.11ax (UNII Band 3/4) – Ch. 163)

FCC ID: A3LSMX910	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Note:

Per ANSI C63.10-2013 Section 14.3.2.2 and KDB 662911 v02r01 Section E)2), the power spectral density at Antenna-1 and Antenna-2 were first measured separately as shown in the section above. The measured values were then summed in linear power units then converted back to dBm.

Sample MIMO Calculation:

At 5180MHz in 802.11n (20MHz BW) mode, the average conducted power spectral density was measured to be 5.50 dBm for Antenna 1 and 4.81 dBm for Antenna 2.

$$\text{Antenna 1} + \text{Antenna 2} = \text{MIMO}$$

$$(5.50\text{dBm} + 4.81 \text{ dBm}) = (3.55 \text{ mW} + 3.03 \text{ mW}) = 6.58 \text{ mW} = 8.18 \text{ dBm}$$

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

At 5180MHz in 802.11n (20MHz BW) mode, the average MIMO power density was calculated to be 8.18 dBm with directional gain of -3.24 dBi.

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

$$8.18 \text{ dBm} + (-3.24) \text{ dBi} = 4.94 \text{ dBm}$$

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7.6 Radiated Spurious Emission Measurements – 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. 802.11a, 802.11n (20MHz BW), 802.11n (40MHz BW), 802.11ac (80MHz), and 802.11ax (160MHz)), 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.

For transmitters operating in the 5.850 – 5.895 GHz band: all emissions at or above 5.895GHz shall not exceed an e.i.r.p. of -5dBm/MHz and shall decrease linearly up to an e.i.r.p. of -27dBm/MHz at or above 5.925GHz, and all emissions below 5.725 GHz shall not exceed an e.i.r.p. of -27dBm/MHz at 5.65 GHz increasing linearly to 10dBm/MHz at 5.7GHz and from 5.7GHz increasing linearly to a level of 15.6dBm/MHz at 5.72GHz, and from 5.72GHz increasing linearly to a level of 27dBm/MHz at 5.725GHz.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 6 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-22 per Section 15.209 and RSS-Gen (8.9).

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

Table 7-22. Radiated Limits

Test Procedures Used

ANSI C63.10-2013 – Sections 12.7.7.2, 12.7.6, 12.7.5

KDB 789033 D02 v02r01 – Section G

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Test Settings

Average Measurements above 1GHz (Method AD)

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 $\geq 2 \times \text{span/RBW}$)
6. Averaging type = power (RMS)
7. Sweep time = auto couple
8. Trace was averaged over 100 sweeps

Peak Measurements above 1GHz

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

Peak Measurements below 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = 120kHz
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

Test Setup

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

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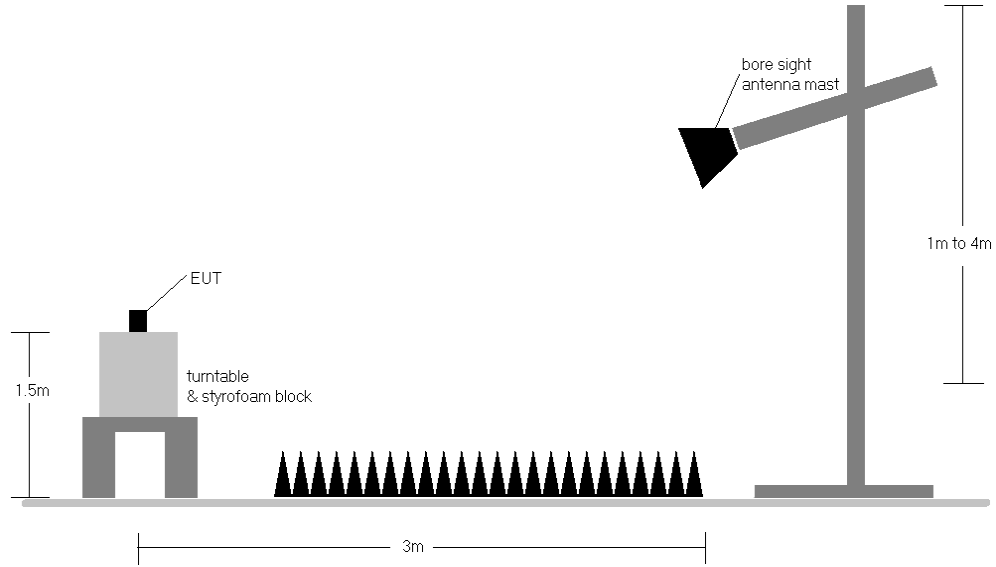


Figure 7-5. Test Instrument & Measurement Setup

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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 7-22.
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 7-22. 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 dBμV/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 68.2dBμV/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. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
6. Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
7. Radiated spurious emissions were investigated while operating in MIMO mode, however, it was determined that single antenna operation produced the worst case emissions. Since the emissions produced from MIMO operation were found to be more than 20dB below the limit, the MIMO emissions are not reported.
8. 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.
9. The “-” shown in the following RSE tables are used to denote a noise floor measurement.

Sample Calculations

Determining Spurious Emissions Levels

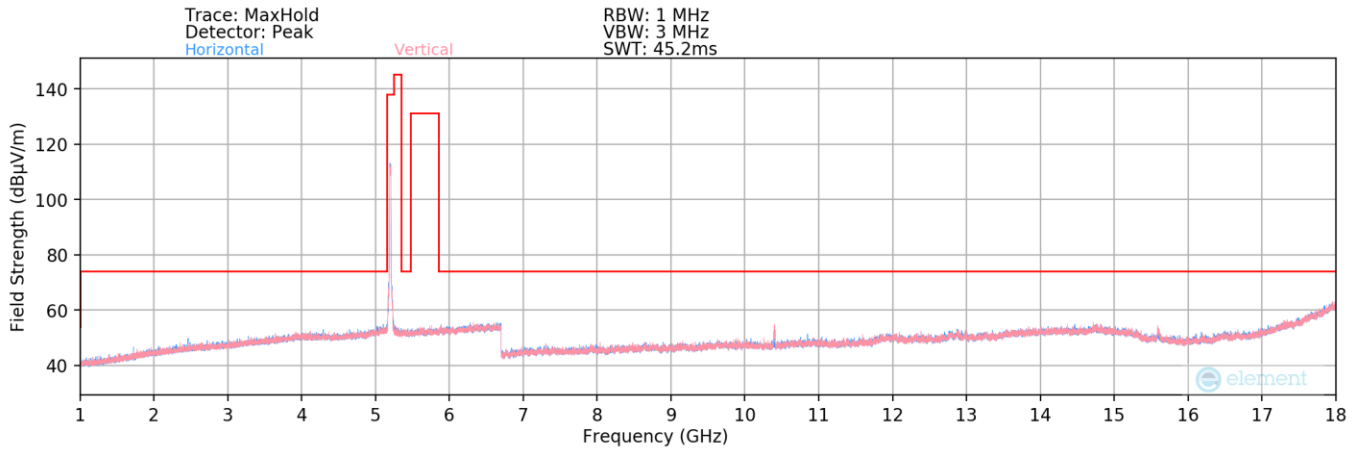
- Field Strength Level [dBμV/m] = Analyzer Level [dBm] + 107 + AFCL [dB/m]
- AFCL [dB/m] = Antenna Factor [dB/m] + Cable Loss [dB]
- Margin [dB] = Field Strength Level [dBμV/m] – Limit [dBμV/m]

Radiated Band Edge Measurement Offset

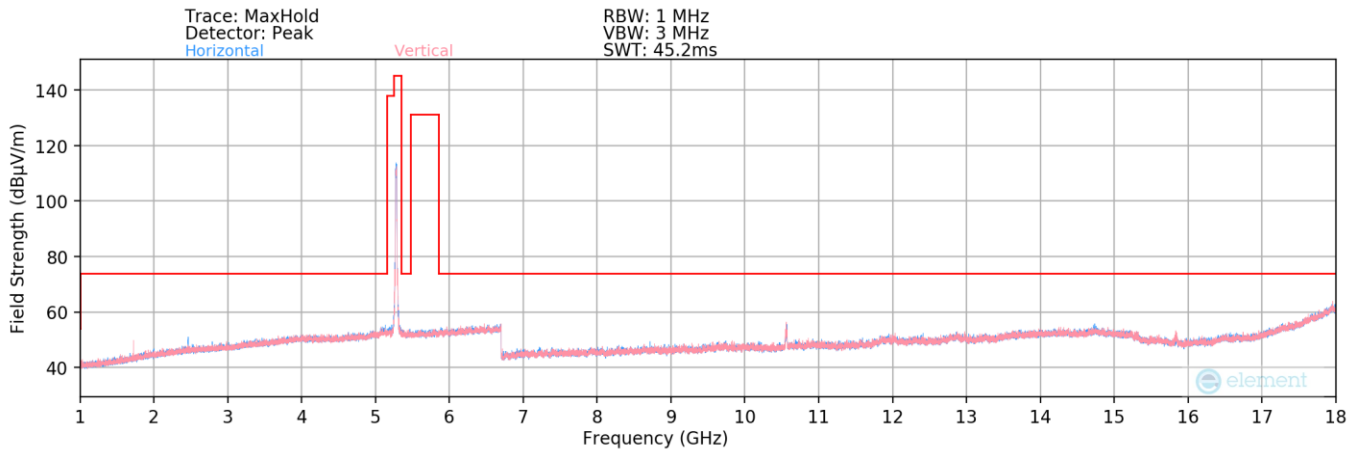
- The amplitude offset shown in the radiated restricted band edge plots was calculated using the formula:
Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

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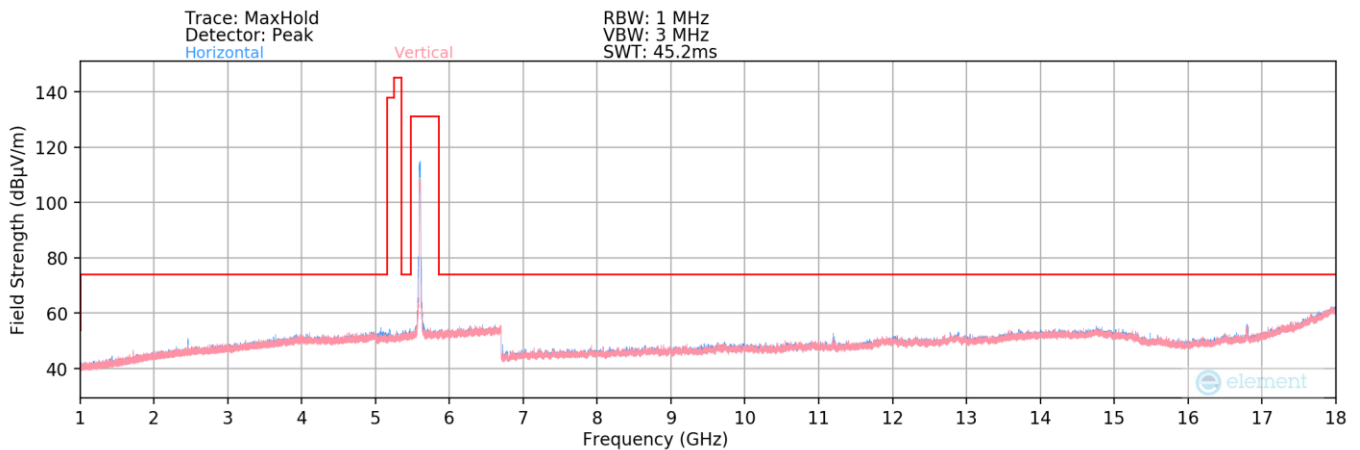
7.6.1 MIMO Radiated Spurious Emission Measurements



Plot 7-349. Radiated Spurious Plot above 1GHz MIMO (802.11a – U1 Ch. 40)

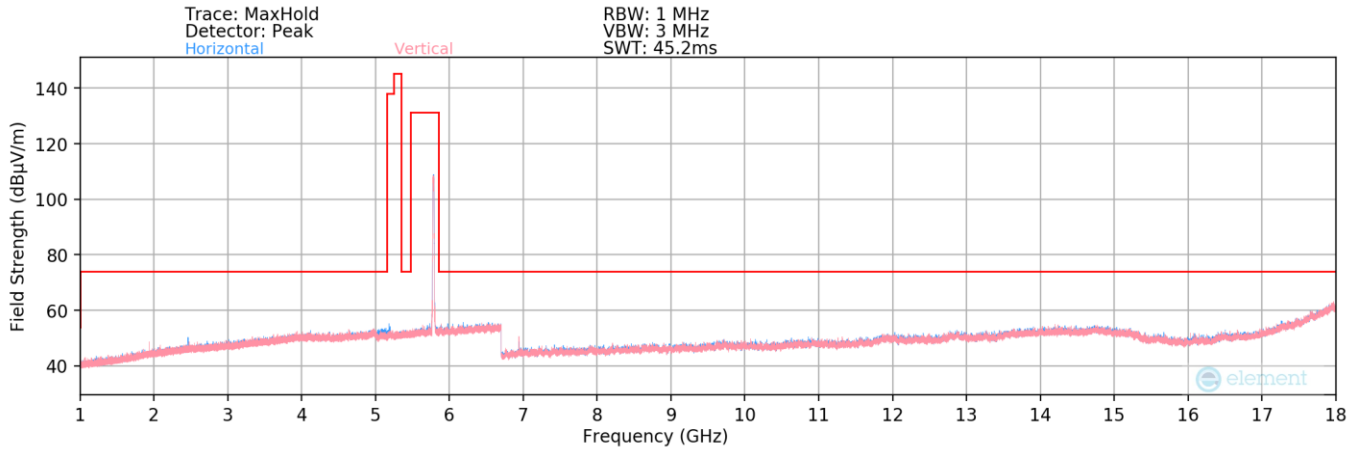


Plot 7-350. Radiated Spurious Plot above 1GHz MIMO (802.11a – U2A Ch. 56)

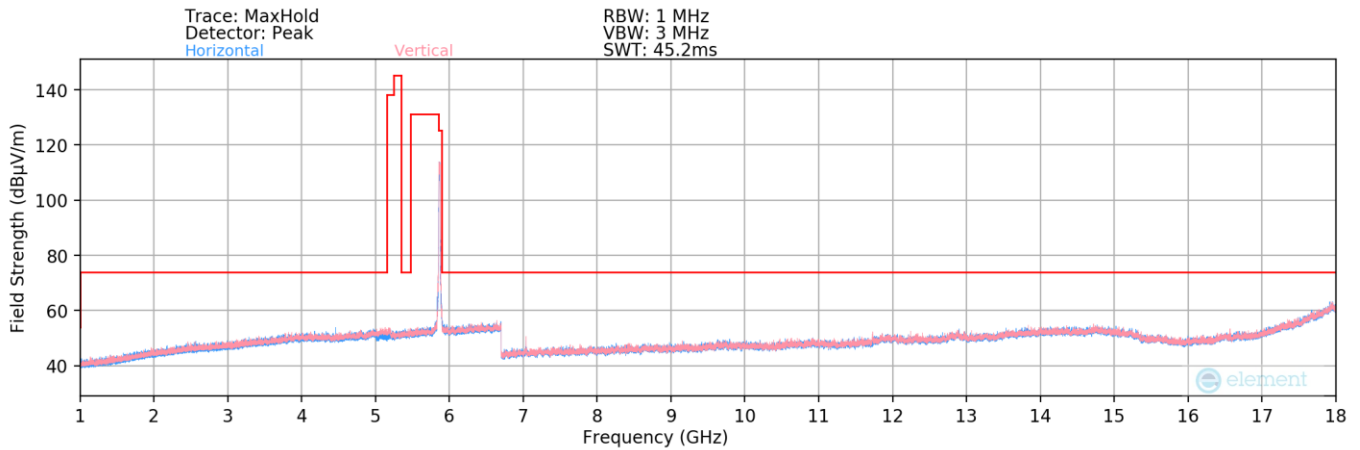


Plot 7-351. Radiated Spurious Plot above 1GHz MIMO (802.11a – U2C Ch. 120)

FCC ID: A3LSMX910	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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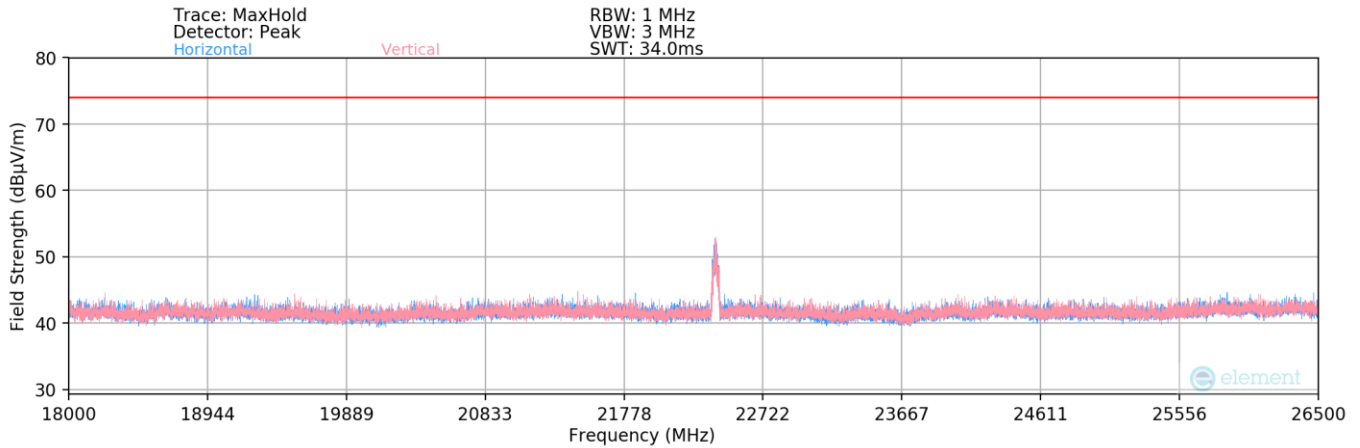
Plot 7-352. Radiated Spurious Plot above 1GHz MIMO (802.11a – U3 Ch. 157)



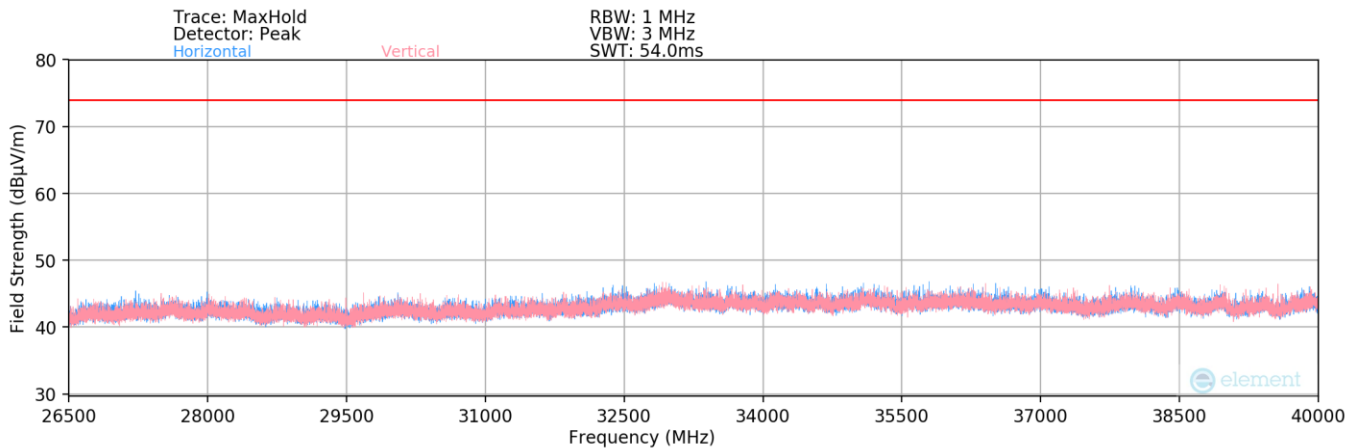
Plot 7-353. Radiated Spurious Plot above 1GHz MIMO (802.11a – U4 Ch. 173)

FCC ID: A3LSMX910	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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MIMO Radiated Spurious Emissions Measurements (Above 18GHz)



Plot 7-354. Radiated Spurious Plot 18GHz – 26.5GHz MIMO (802.11a)



Plot 7-355. Radiated Spurious Plot 26.5GHz – 40GHz MIMO (802.11a)

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MIMO Radiated Spurious Emission Measurements

§15.407(b) §15.205 & §15.209

Worst Case Mode:	<u>802.11a</u>
Worst Case Transfer Rate:	<u>6Mbps</u>
Distance of Measurements:	<u>1 & 3 Meters</u>
Operating Frequency:	<u>5180MHz</u>
Channel:	<u>36</u>

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10360.00	Peak	H	118	281	-61.74	10.92	0.00	56.17	68.20	-12.03
* 15540.00	Average	H	-	-	-78.09	15.08	0.00	43.99	53.98	-9.99
* 15540.00	Peak	H	-	-	-67.77	15.08	0.00	54.31	73.98	-19.67
* 20720.00	Average	V	-	-	-61.19	-3.38	-9.54	32.89	53.98	-21.09
* 20720.00	Peak	V	-	-	-50.01	-3.38	-9.54	44.07	73.98	-29.91
25900.00	Peak	V	-	-	-51.22	-2.56	-9.54	43.68	68.20	-24.52

Table 7-23. Radiated Measurements MIMO

Worst Case Mode:	<u>802.11a</u>
Worst Case Transfer Rate:	<u>6Mbps</u>
Distance of Measurements:	<u>1 & 3 Meters</u>
Operating Frequency:	<u>5200MHz</u>
Channel:	<u>40</u>

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10400.00	Peak	H	121	283	-62.27	10.33	0.00	55.06	68.20	-13.14
* 15600.00	Average	H	288	166	-75.84	14.97	0.00	46.13	53.98	-7.85
* 15600.00	Peak	H	288	166	-65.64	14.97	0.00	56.33	73.98	-17.65
* 20800.00	Average	V	150	304	-59.54	-3.33	-9.54	34.58	53.98	-19.39
* 20800.00	Peak	V	150	304	-49.45	-3.33	-9.54	44.67	73.98	-29.30
26000.00	Peak	V	-	-	-52.07	-2.36	-9.54	43.03	68.20	-25.17

Table 7-24. Radiated Measurements MIMO

FCC ID: A3LSMX910	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2303200036-06.A3L	Test Dates: 04/03 - 05/15/2023	EUT Type: Portable Tablet	Page 214 of 255

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 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]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10480.00	Peak	H	303	284	-61.82	10.49	0.00	55.67	68.20	-12.53
* 15720.00	Average	H	-	-	-77.72	14.11	0.00	43.39	53.98	-10.59
* 15720.00	Peak	H	-	-	-67.28	14.11	0.00	53.83	73.98	-20.15
* 20960.00	Average	V	150	299	-60.97	-3.46	-9.54	33.02	53.98	-20.95
* 20960.00	Peak	V	150	299	-50.39	-3.46	-9.54	43.60	73.98	-30.37
26200.00	Peak	V	-	-	-51.36	-2.36	-9.54	43.73	68.20	-24.47

Table 7-25. Radiated Measurements MIMO

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 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]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10520.00	Peak	H	154	282	-62.86	10.45	0.00	54.59	68.20	-13.61
* 15780.00	Average	H	-	-	-81.66	13.39	0.00	38.73	53.98	-15.25
* 15780.00	Peak	H	-	-	-70.83	13.39	0.00	49.56	73.98	-24.42
* 21040.00	Average	V	150	252	-58.58	-3.51	-9.54	35.37	53.98	-18.61
* 21040.00	Peak	V	150	252	-47.46	-3.51	-9.54	46.49	73.98	-27.49
26300.00	Peak	V	-	-	-50.81	-2.27	-9.54	44.38	68.20	-23.82

Table 7-26. Radiated Measurements MIMO

FCC ID: A3LSMX910	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2303200036-06.A3L	Test Dates: 04/03 - 05/15/2023	EUT Type: Portable Tablet	Page 215 of 255



Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 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]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10560.00	Peak	H	151	282	-61.04	10.82	0.00	56.78	68.20	-11.42
* 15840.00	Average	H	223	217	-76.32	13.39	0.00	44.07	53.98	-9.91
* 15840.00	Peak	H	223	217	-66.15	13.39	0.00	54.24	73.98	-19.74
* 21120.00	Average	V	150	255	-55.15	-3.46	-9.54	38.84	53.98	-15.14
* 21120.00	Peak	V	150	255	-44.68	-3.46	-9.54	49.31	73.98	-24.67
26400.00	Peak	V	-	-	-51.74	-2.37	-9.54	43.35	68.20	-24.85

Table 7-27. Radiated Measurements MIMO

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 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]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 10640.00	Average	H	147	285	-69.82	10.17	0.00	47.35	53.98	-6.62
* 10640.00	Peak	H	147	285	-59.77	10.17	0.00	57.40	73.98	-16.57
* 15960.00	Average	H	235	78	-75.91	12.76	0.00	43.85	53.98	-10.13
* 15960.00	Peak	H	235	78	-65.38	12.76	0.00	54.38	73.98	-19.60
* 21280.00	Average	V	150	259	-52.74	-3.34	-9.54	41.38	53.98	-12.60
* 21280.00	Peak	V	150	259	-40.95	-3.34	-9.54	53.17	73.98	-20.81
26600.00	Peak	V	-	-	-51.65	-2.27	-9.54	43.54	68.20	-24.66

Table 7-28. Radiated Measurements MIMO

FCC ID: A3LSMX910	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2303200036-06.A3L	Test Dates: 04/03 - 05/15/2023	EUT Type: Portable Tablet	Page 216 of 255

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 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]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11000.00	Average	V	136	168	-71.39	10.89	0.00	46.50	53.98	-7.47
* 11000.00	Peak	V	136	168	-62.50	10.89	0.00	55.39	73.98	-18.58
16500.00	Peak	V	118	331	-62.77	15.51	0.00	59.74	68.20	-8.46
22000.00	Peak	V	150	258	-42.98	-3.89	-9.54	50.59	68.20	-17.61
27500.00	Peak	V	-	-	-50.34	-1.17	-9.54	45.95	68.20	-22.25

Table 7-29. Radiated Measurements MIMO

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5600MHz
 Channel: 120

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11200.00	Average	V	108	5	-73.10	11.57	0.00	45.47	53.98	-8.51
* 11200.00	Peak	V	108	5	-64.09	11.57	0.00	54.48	73.98	-19.50
16800.00	Peak	V	104	2	-59.88	15.70	0.00	62.82	68.20	-5.38
* 22400.00	Average	V	150	250	-47.79	-3.57	-9.54	46.09	53.98	-7.89
* 22400.00	Peak	V	150	250	-36.69	-3.57	-9.54	57.19	73.98	-16.79
28000.00	Peak	V	-	-	-52.32	-0.89	-9.54	44.25	68.20	-23.95

Table 7-30. Radiated Measurements MIMO

FCC ID: A3LSMX910	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2303200036-06.A3L	Test Dates: 04/03 - 05/15/2023	EUT Type: Portable Tablet	Page 217 of 255

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 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]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11440.00	Average	V	-	-	-80.21	11.48	0.00	38.27	53.98	-15.71
* 11440.00	Peak	V	-	-	-70.50	11.48	0.00	47.98	73.98	-26.00
17160.00	Peak	V	-	-	-70.83	17.69	0.00	53.86	68.20	-14.34
* 22880.00	Average	V	150	258	-56.33	-3.59	-9.54	37.54	53.98	-16.44
* 22880.00	Peak	V	150	258	-45.26	-3.59	-9.54	48.61	73.98	-25.37
28600.00	Peak	V	-	-	-52.72	-1.17	-9.54	43.56	68.20	-24.64

Table 7-31. Radiated Measurements MIMO

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 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]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11490.00	Average	H	236	120	-75.99	11.43	0.00	42.44	53.98	-11.54
* 11490.00	Peak	H	236	120	-66.12	11.43	0.00	52.31	73.98	-21.67
17235.00	Peak	H	-	-	-71.38	18.45	0.00	54.07	68.20	-14.13
* 22980.00	Average	V	150	313	-54.43	-3.58	-9.54	39.45	53.98	-14.53
* 22980.00	Peak	V	150	313	-43.40	-3.58	-9.54	50.48	73.98	-23.50
28725.00	Peak	V	-	-	-52.49	-1.17	-9.54	43.80	69.20	-25.40

Table 7-32. Radiated Measurements MIMO

FCC ID: A3LSMX910	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2303200036-06.A3L	Test Dates: 04/03 - 05/15/2023	EUT Type: Portable Tablet	Page 218 of 255

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 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]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11570.00	Average	H	242	282	-73.20	11.70	0.00	45.50	53.98	-8.48
* 11570.00	Peak	H	242	282	-63.36	11.70	0.00	55.34	73.98	-18.64
17355.00	Peak	H	-	-	-71.39	19.84	0.00	55.45	68.20	-12.75
23140.00	Peak	V	150	294	-45.84	-3.58	-9.54	48.04	68.20	-20.16
28925.00	Peak	V	-	-	-52.71	-1.09	-9.54	44.75	68.20	-23.45

Table 7-33. Radiated Measurements MIMO

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 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]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11650.00	Average	H	248	282	-73.24	11.45	0.00	45.21	53.98	-8.77
* 11650.00	Peak	H	248	282	-63.46	11.45	0.00	54.99	73.98	-18.99
17475.00	Peak	H	-	-	-71.35	19.89	0.00	55.54	68.20	-12.66
23300.00	Peak	V	150	312	-47.60	-3.59	-9.54	46.26	68.20	-21.94
29125.00	Peak	V	-	-	-52.82	-0.90	-9.54	43.74	68.20	-24.46

Table 7-34. Radiated Measurements MIMO

FCC ID: A3LSMX910	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2303200036-06.A3L	Test Dates: 04/03 - 05/15/2023	EUT Type: Portable Tablet	Page 219 of 255



Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5845MHz
 Channel: 169

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
* 11690.00	Average	H	230	279	-74.74	11.82	0.00	44.08	53.98	-9.90
* 11690.00	Peak	H	230	279	-65.29	11.82	0.00	53.53	73.98	-20.45
17535.00	Peak	H	-	-	-67.36	20.79	0.00	60.43	68.20	-7.77
23380.00	Peak	V	150	282	-46.76	-3.60	-9.54	56.64	68.20	-11.56
29225.00	Peak	V	-	-	-53.20	-0.85	-9.54	52.95	68.20	-15.25
35070.00	Peak	V	-	-	-51.53	-0.28	-9.54	55.19	68.20	-13.01

Table 7-35. Radiated Measurements MIMO

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5865MHz
 Channel: 173

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
* 11730.00	Average	H	245	99	-74.84	11.85	0.00	44.01	53.98	-9.97
* 11730.00	Peak	H	245	99	-64.69	11.85	0.00	54.16	73.98	-19.82
17595.00	Peak	H	-	-	-67.00	21.47	0.00	61.47	68.20	-6.73
23460.00	Peak	V	150	279	-47.51	-3.67	-9.54	55.82	68.20	-12.38
29325.00	Peak	V	-	-	-53.01	-0.75	-9.54	53.24	68.20	-14.96
35190.00	Peak	V	-	-	-51.77	-0.26	-9.54	54.97	68.20	-13.23

Table 7-36. Radiated Measurements MIMO

FCC ID: A3LSMX910	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2303200036-06.A3L	Test Dates: 04/03 - 05/15/2023	EUT Type: Portable Tablet	Page 220 of 255

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5885MHz
 Channel: 177

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11770.00	Average	H	251	86	-74.92	11.69	0.00	43.77	53.98	-10.21
* 11770.00	Peak	H	251	86	-64.12	11.69	0.00	54.57	73.98	-19.41
17655.00	Peak	H	-	-	-67.03	22.36	0.00	62.33	68.20	-5.87
23540.00	Peak	V	150	278	-46.25	-3.66	-9.54	57.09	68.20	-11.11
29425.00	Peak	V	-	-	-53.21	-0.72	-9.54	53.07	68.20	-15.13
35310.00	Peak	V	-	-	-51.79	-0.27	-9.54	54.94	68.20	-13.26

Table 7-37. Radiated Measurements MIMO

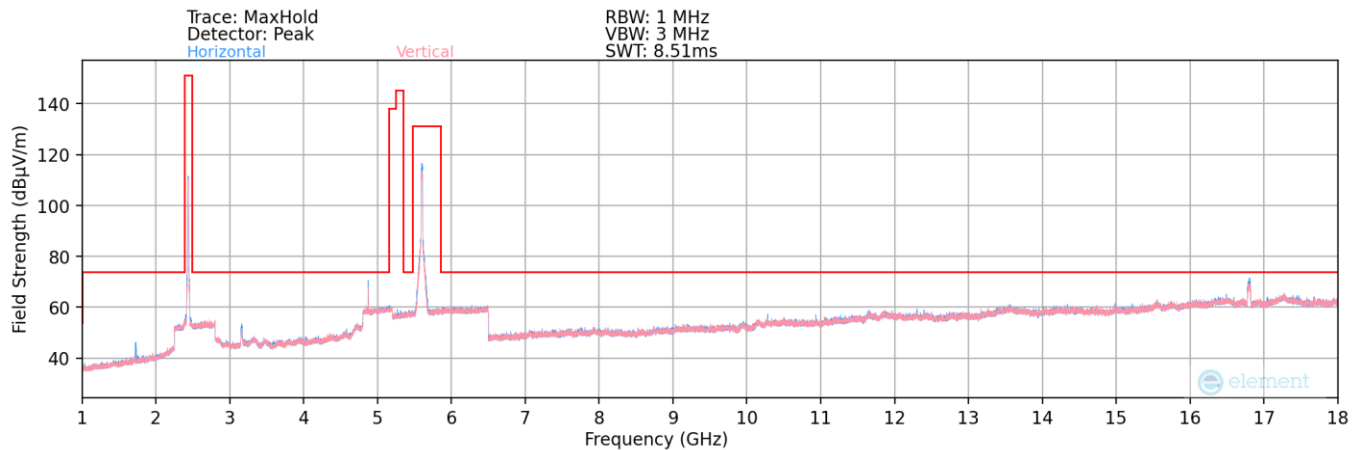
FCC ID: A3LSMX910	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2303200036-06.A3L	Test Dates: 04/03 - 05/15/2023	EUT Type: Portable Tablet	Page 221 of 255

7.6.2 Simultaneous Tx Radiated Spurious Emissions Measurements

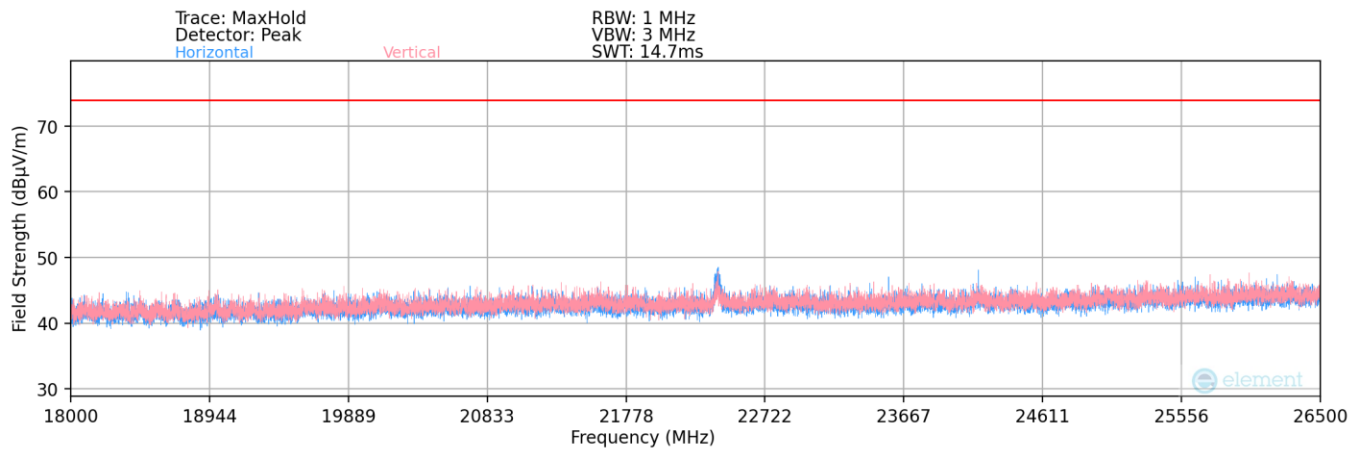
§15.407(b) §15.205 & §15.209; RSS-Gen [8.9]

Description	2.4 GHz Emission	5 GHz Emission
Antenna	1,2	1,2
Channel	6	120
Operating Frequency (MHz)	2437	5600
Data Rate (Mbps)	1Mbps	6Mbps
Mode	b	a

Table 7-38. Simultaneous Transmission Config-1

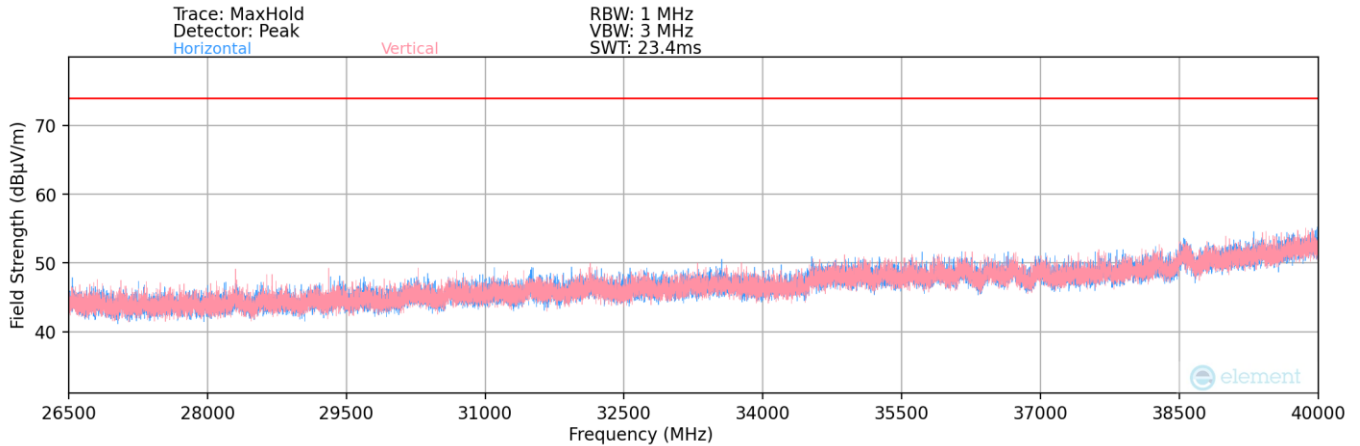


Plot 7-356. Radiated Spurious Plot above 1GHz (2.4GHz – 5GHz)



Plot 7-357. Radiated Spurious Plot 18GHz – 26.5GHz (2.4GHz – 5GHz)

FCC ID: A3LSMX910	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2303200036-06.A3L	Test Dates: 04/03 - 05/15/2023	EUT Type: Portable Tablet	Page 222 of 255



Plot 7-358. Radiated Spurious Plot above 26.5GHz (2.4GHz – 5GHz)

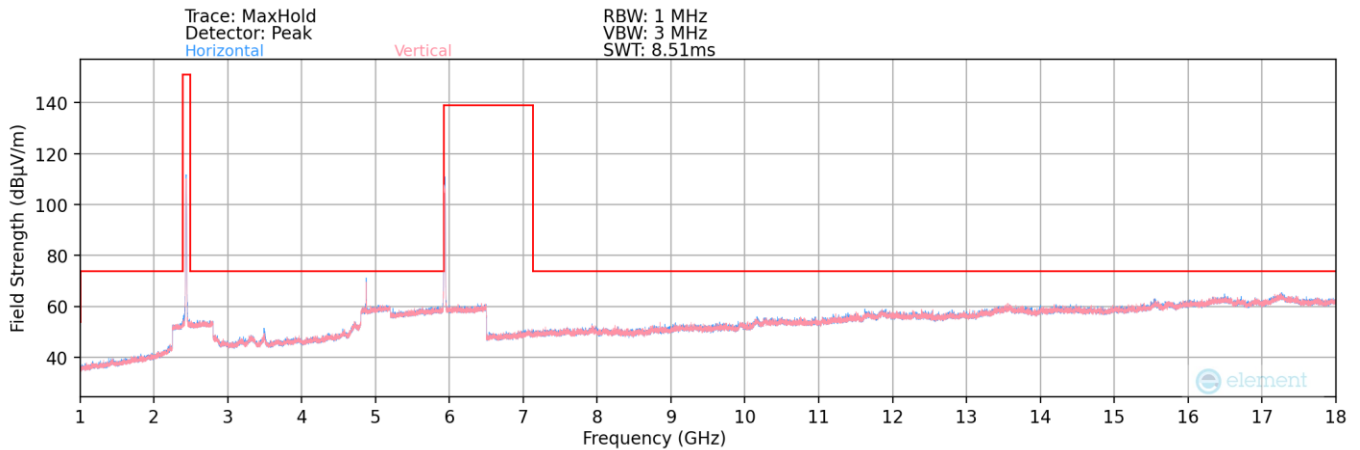
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
726.00	Peak	H	-	-	-75.56	-0.44	0.00	31.00	46.02	-15.02
1711.00	Peak	H	-	-	-67.33	1.04	0.00	40.71	68.20	-27.49
3163.00	Peak	H	-	-	-68.79	7.10	0.00	45.31	68.20	-22.89
* 8037.00	Average	H	139	285	-81.89	15.92	0.00	41.03	53.98	-12.95
* 8037.00	Peak	H	139	285	-70.68	15.92	0.00	52.24	73.98	-21.74
8763.00	Peak	H	-	-	-72.20	17.05	0.00	51.85	68.20	-16.35
10474.00	Peak	H	-	-	-73.00	21.20	0.00	55.20	68.20	-13.00
* 13637.00	Average	H	-	-	-83.98	25.18	0.00	48.20	53.98	-5.78
* 13637.00	Peak	H	-	-	-72.26	25.18	0.00	59.92	73.98	-14.06
* 19237.00	Average	H	-	-	-66.58	2.39	-9.54	33.27	53.98	-20.71
* 19237.00	Peak	H	-	-	-55.43	2.39	-9.54	44.42	73.98	-29.56

Table 7-39. Radiated Measurements (MIMO 2.4GHz – MIMO 5GHz)

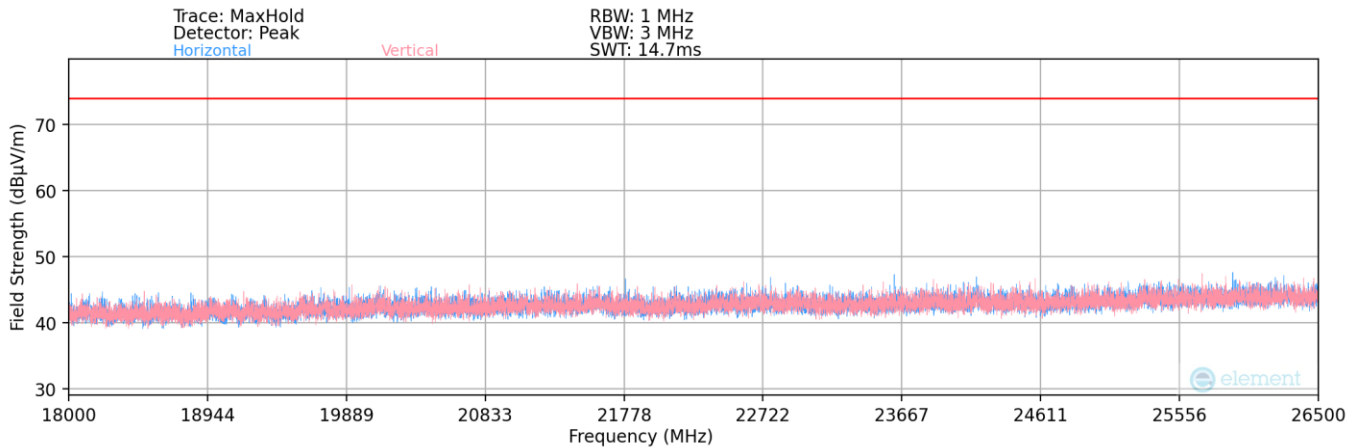
FCC ID: A3LSMX910	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2303200036-06.A3L	Test Dates: 04/03 - 05/15/2023	EUT Type: Portable Tablet	Page 223 of 255

Description	2.4 GHz Emission	6 GHz Emission
Antenna	1,2	1,2
Channel	6	2
Operating Frequency (MHz)	2437	5935
Data Rate (Mbps)	1Mbps	MCS0
Mode	a	ax

Table 7-40. Simultaneous Transmission Config-2

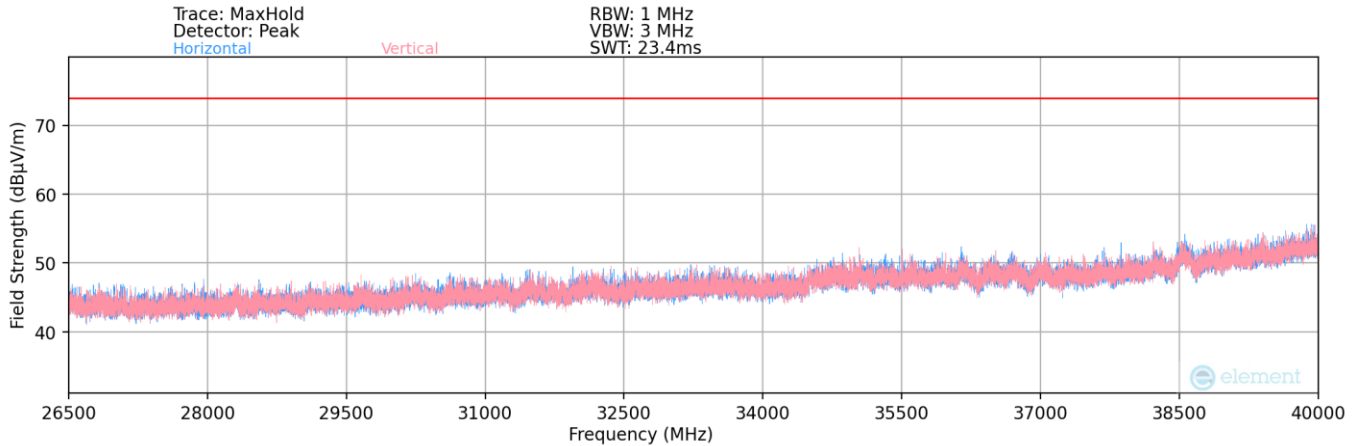


Plot 7-359. Radiated Spurious Plot above 1GHz (2.4GHz – 6GHz)



Plot 7-360. Radiated Spurious Plot 18GHz – 26.5GHz (2.4GHz – 6GHz)

FCC ID: A3LSMX910		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2303200036-06.A3L	Test Dates: 04/03 - 05/15/2023	EUT Type: Portable Tablet	Page 224 of 255	



Plot 7-361. Radiated Spurious Plot above 26.5GHz (2.4GHz – 6GHz)

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
315.00	Peak	H	-	-	-73.77	-8.04	0.00	25.19	46.02	-20.83
* 1061.00	Average	H	-	-	-77.96	-3.09	0.00	25.95	53.98	-28.03
* 1061.00	Peak	H	-	-	-65.86	-3.09	0.00	38.05	73.98	-35.93
3498.00	Peak	H	-	-	-69.28	8.06	0.00	45.78	68.20	-22.42
6996.00	Peak	H	-	-	-70.95	14.37	0.00	50.42	68.20	-17.78
* 8372.00	Average	H	-	-	-83.16	16.66	0.00	40.50	53.98	-13.48
* 8372.00	Peak	H	-	-	-71.57	16.66	0.00	52.09	73.98	-21.89
* 9433.00	Average	H	-	-	-83.67	18.56	0.00	41.89	53.98	-12.09
* 9433.00	Peak	H	-	-	-72.45	18.56	0.00	53.11	73.98	-20.87
* 10809.00	Average	H	-	-	-83.41	20.66	0.00	44.25	53.98	-9.73
* 10809.00	Peak	H	-	-	-72.67	20.66	0.00	54.99	73.98	-18.99
* 20242.00	Average	H	-	-	-65.98	3.43	-9.54	34.90	53.98	-19.07
* 20242.00	Peak	H	-	-	-54.86	3.43	-9.54	46.03	73.98	-27.95

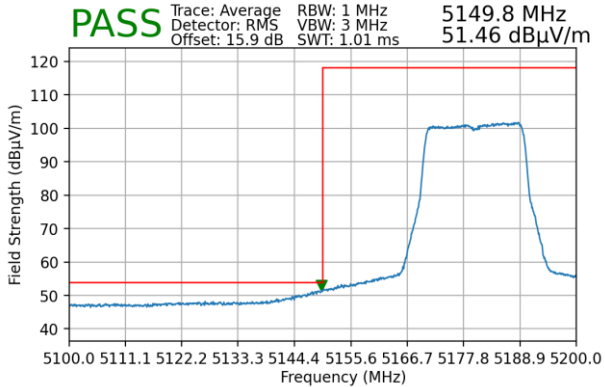
Table 7-41. Radiated Measurements (MIMO 2.4GHz – MIMO 6GHz)

FCC ID: A3LSMX910	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2303200036-06.A3L	Test Dates: 04/03 - 05/15/2023	EUT Type: Portable Tablet	Page 225 of 255

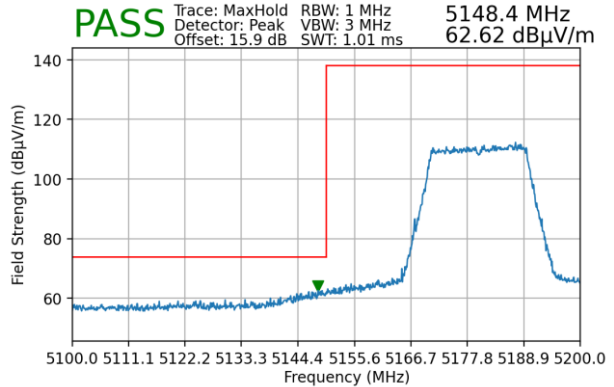
7.6.3 MIMO Radiated Band Edge Measurements (20MHz BW)

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

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5180MHz
Channel:	36

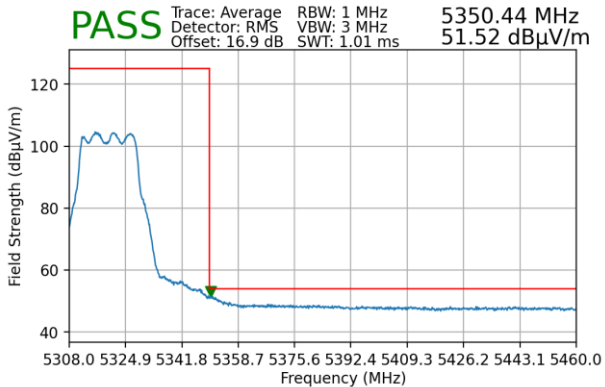


Plot 7-362. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1)

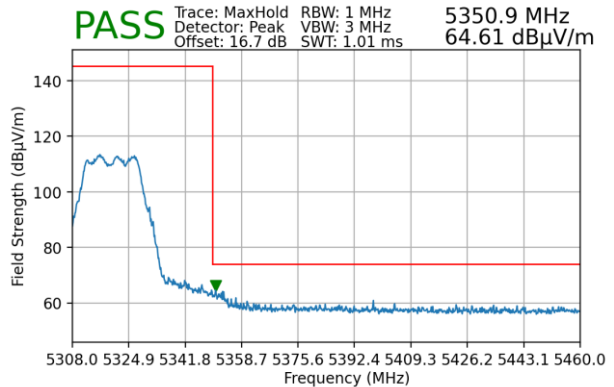


Plot 7-363. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)

Worst Case Mode:	802.11a
Worst Case Transfer Rate:	6Mbps
Distance of Measurements:	3 Meters
Operating Frequency:	5320MHz
Channel:	64



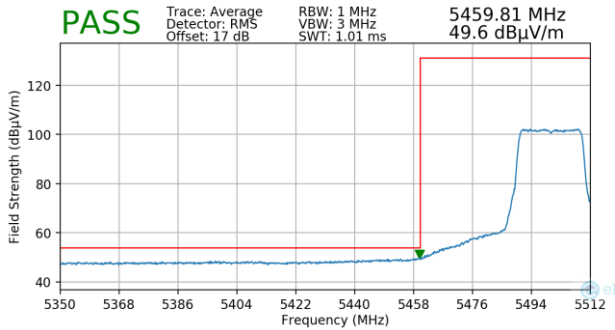
Plot 7-364. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A)



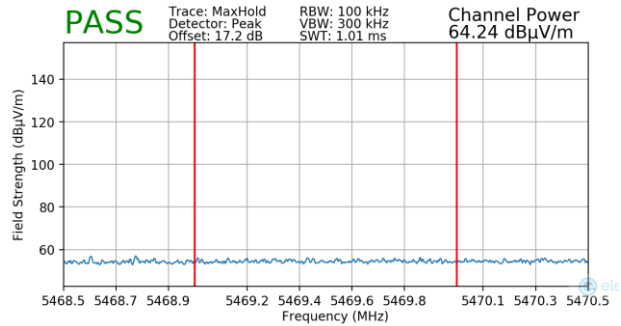
Plot 7-365. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A)

FCC ID: A3LSMX910	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2303200036-06.A3L	Test Dates: 04/03 - 05/15/2023	EUT Type: Portable Tablet	Page 226 of 255

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100

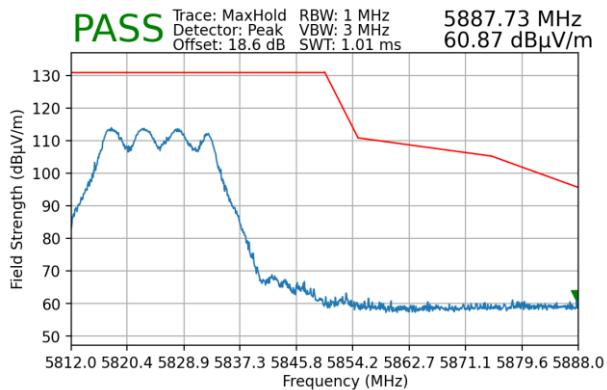


Plot 7-366. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C)



Plot 7-367. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C)

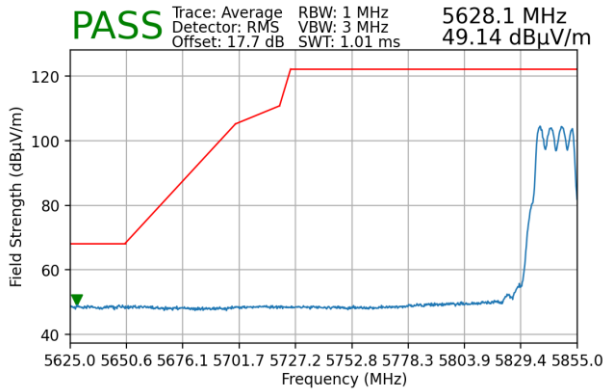
Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165



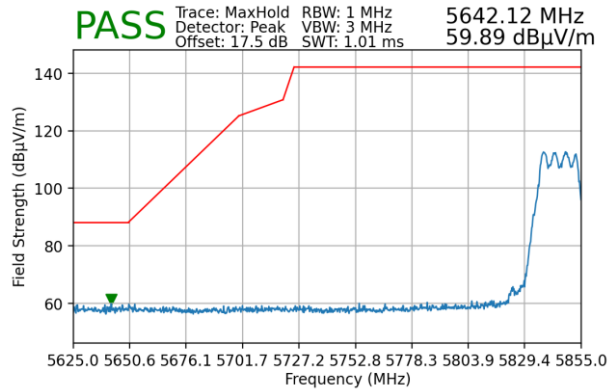
Plot 7-368. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3)

FCC ID: A3LSMX910	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2303200036-06.A3L	Test Dates: 04/03 - 05/15/2023	EUT Type: Portable Tablet	Page 227 of 255

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 5845MHz
 Channel: 169

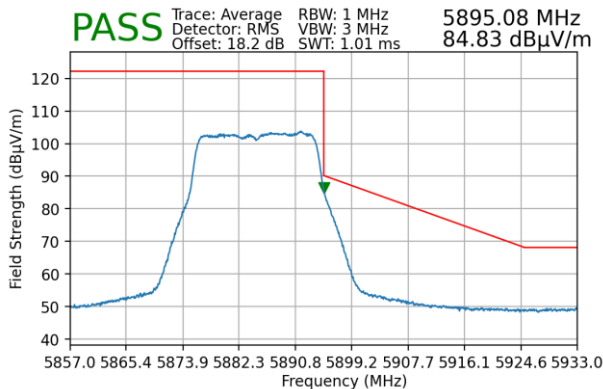


Plot 7-369. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 4)

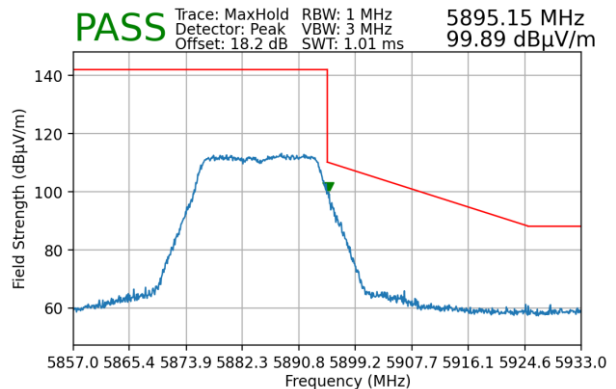


Plot 7-370. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 4)

Worst Case Mode: 802.11ac
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5885MHz
 Channel: 177



Plot 7-371. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 4)

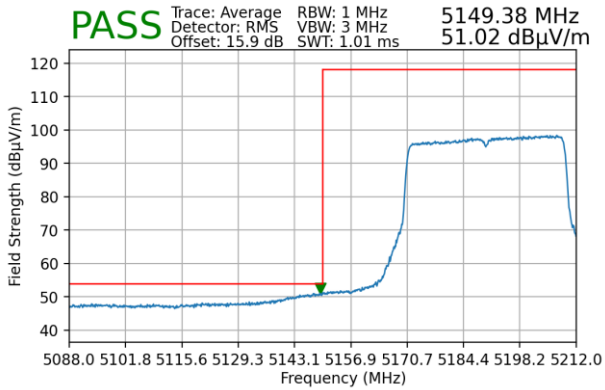


Plot 7-372. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 4)

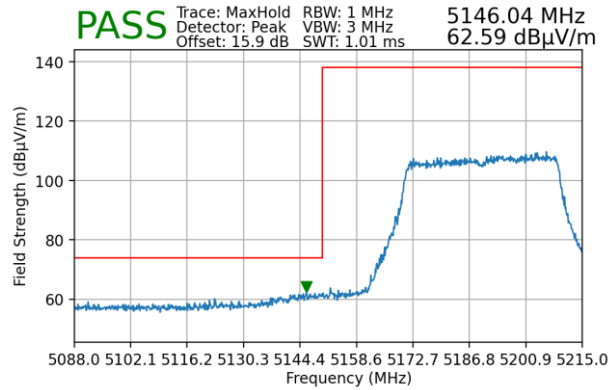
FCC ID: A3LSMX910	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2303200036-06.A3L	Test Dates: 04/03 - 05/15/2023	EUT Type: Portable Tablet	Page 228 of 255

7.6.4 MIMO 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:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5190MHz
Channel:	38

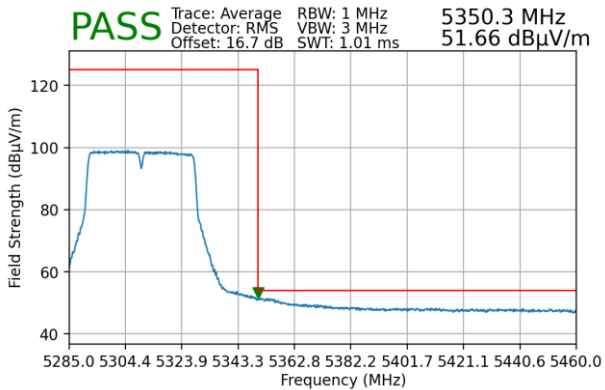


Plot 7-373. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1)

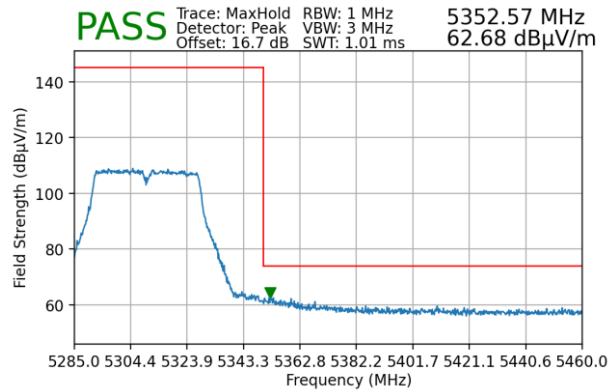


Plot 7-374. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)

Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS8
Distance of Measurements:	3 Meters
Operating Frequency:	5310MHz
Channel:	62



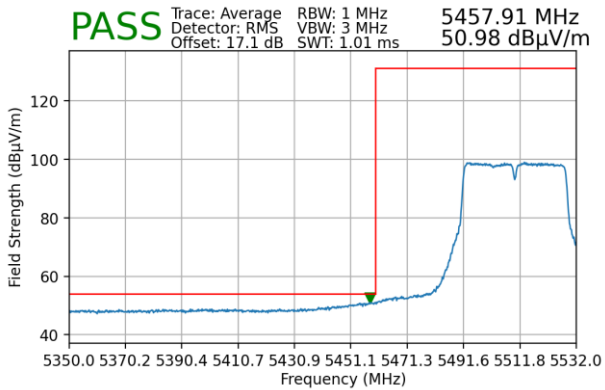
Plot 7-375. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A)



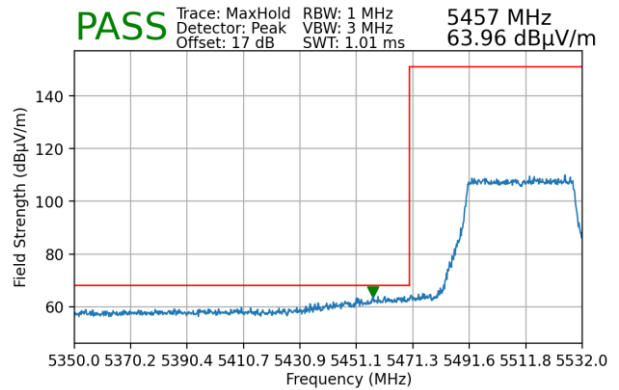
Plot 7-376. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A)

FCC ID: A3LSMX910	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Worst Case Mode: 802.11ac
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5510MHz
 Channel: 102

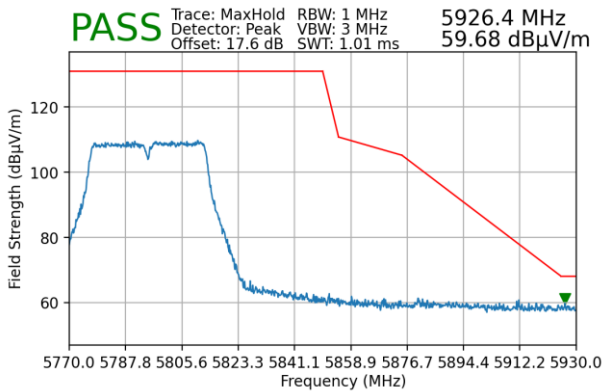


Plot 7-377. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C)



Plot 7-378. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C)

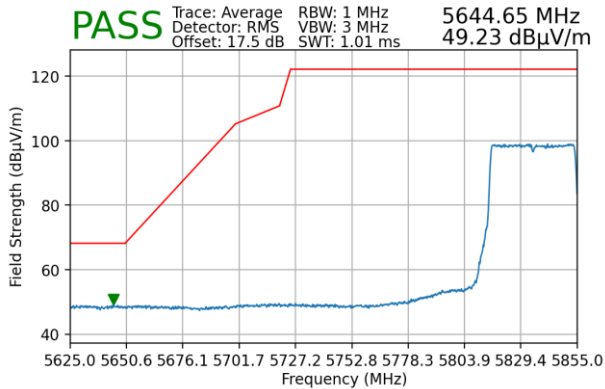
Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS8
 Distance of Measurements: 3 Meters
 Operating Frequency: 5795MHz
 Channel: 159



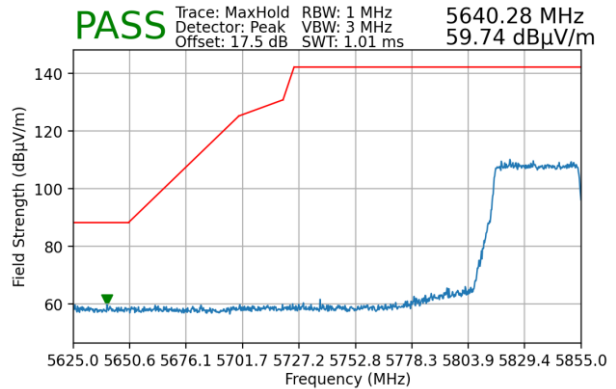
Plot 7-379. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3)

FCC ID: A3LSMX910	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2303200036-06.A3L	Test Dates: 04/03 - 05/15/2023	EUT Type: Portable Tablet	Page 230 of 255

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5835MHz
 Channel: 167

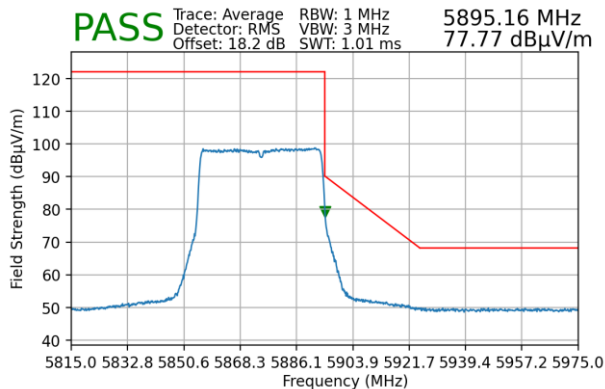


Plot 7-380. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 4)

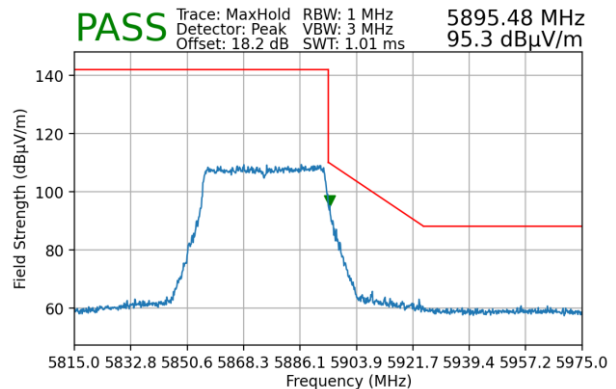


Plot 7-381. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 4)

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5875MHz
 Channel: 175



Plot 7-382. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 4)

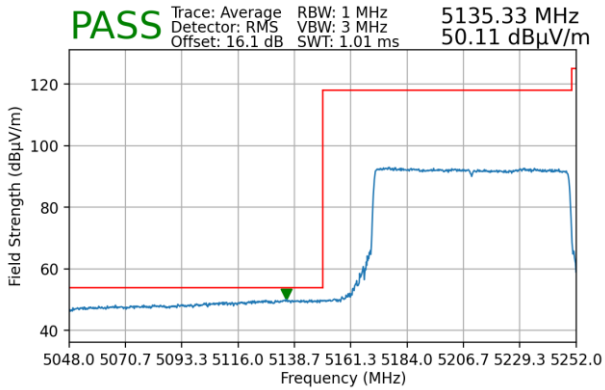


Plot 7-383. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 4)

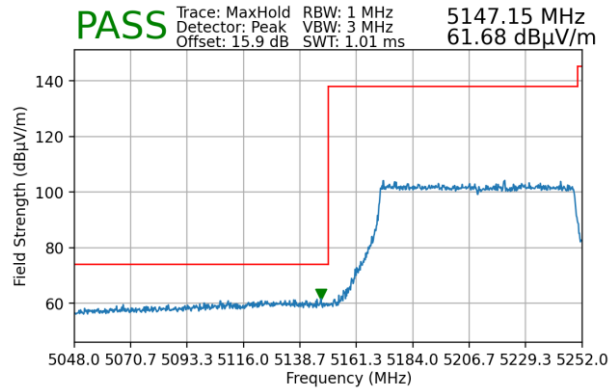
FCC ID: A3LSMX910	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2303200036-06.A3L	Test Dates: 04/03 - 05/15/2023	EUT Type: Portable Tablet	Page 231 of 255

7.6.5 MIMO 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:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5210MHz
Channel:	42

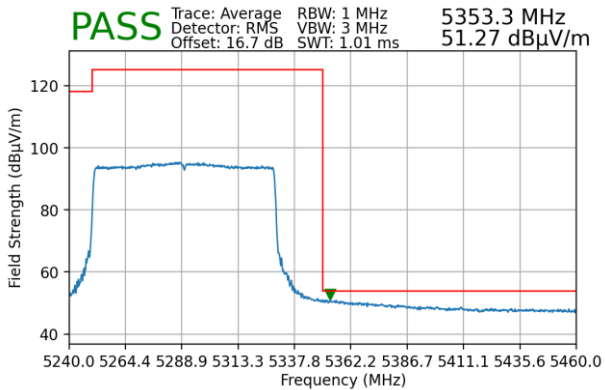


Plot 7-384. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1)

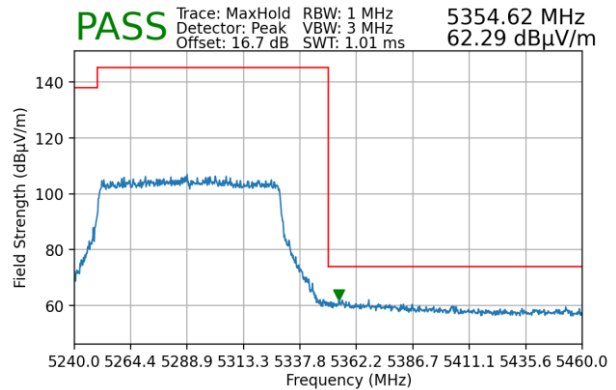


Plot 7-385. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)

Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5290MHz
Channel:	58



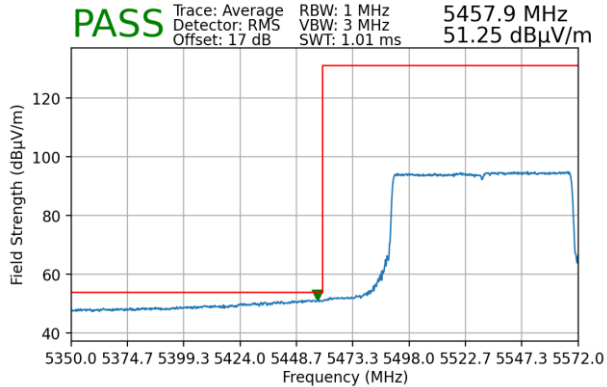
Plot 7-386. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A)



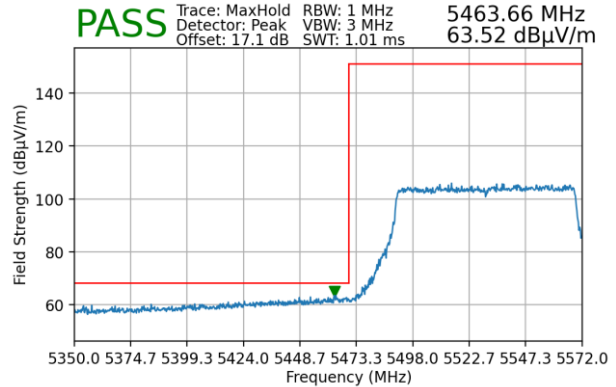
Plot 7-387. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A)

FCC ID: A3LSMX910	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2303200036-06.A3L	Test Dates: 04/03 - 05/15/2023	EUT Type: Portable Tablet	Page 232 of 255

Worst Case Mode: 802.11ac
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5530MHz
 Channel: 106

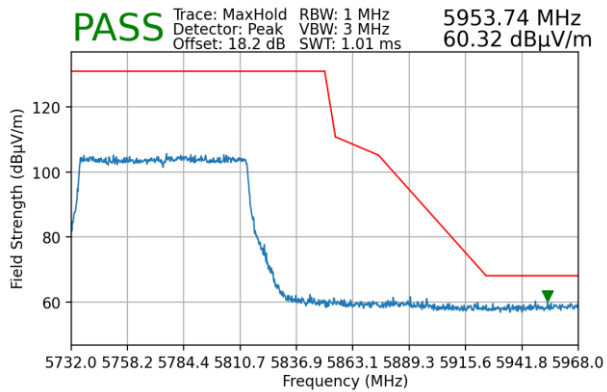


Plot 7-388. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C)



Plot 7-389. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C)

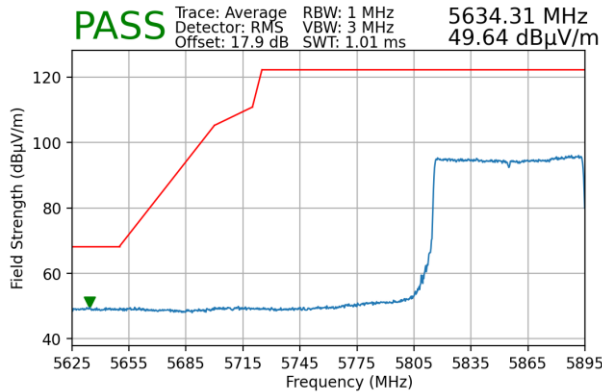
Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5775MHz
 Channel: 155



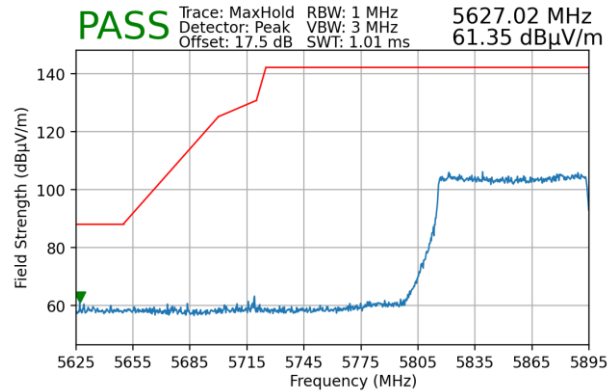
Plot 7-390. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3)

FCC ID: A3LSMX910	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Worst Case Mode: 802.11ac
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5855MHz
 Channel: 171

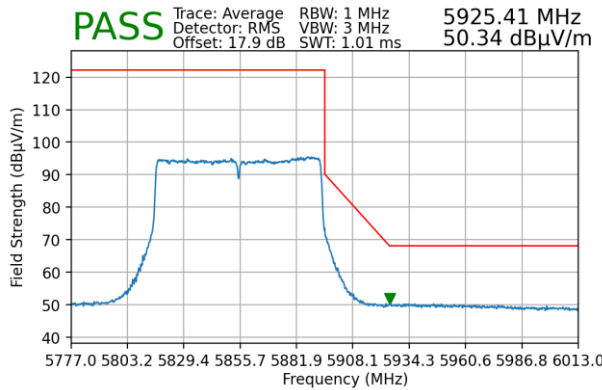


Plot 7-391. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 4)

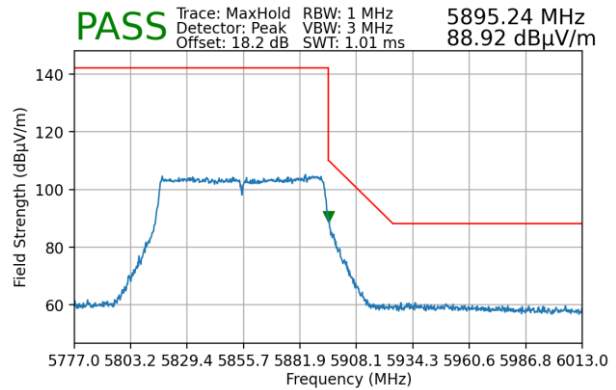


Plot 7-392. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 4)

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5855MHz
 Channel: 171



Plot 7-393. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 4)

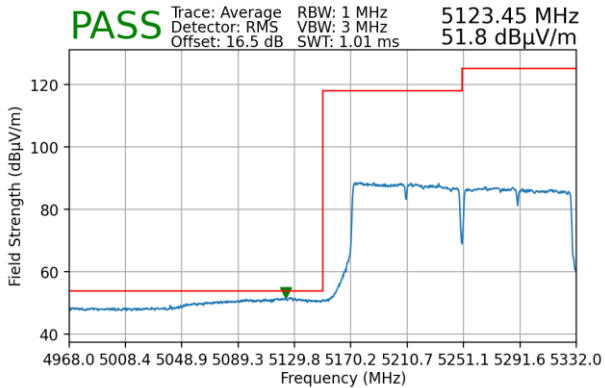


Plot 7-394. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 4)

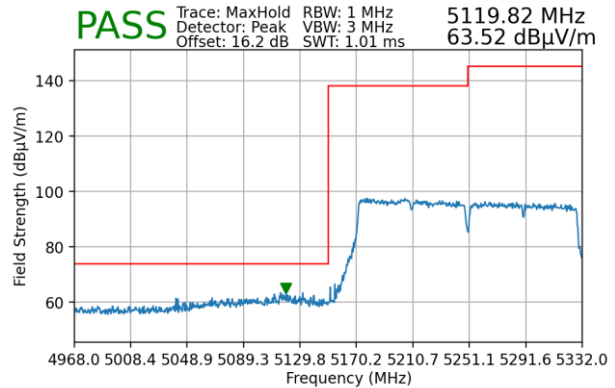
FCC ID: A3LSMX910		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2303200036-06.A3L	Test Dates: 04/03 - 05/15/2023	EUT Type: Portable Tablet		Page 234 of 255

7.6.6 MIMO Radiated Band Edge Measurements (160MHz BW)

Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5250MHz
Channel:	50

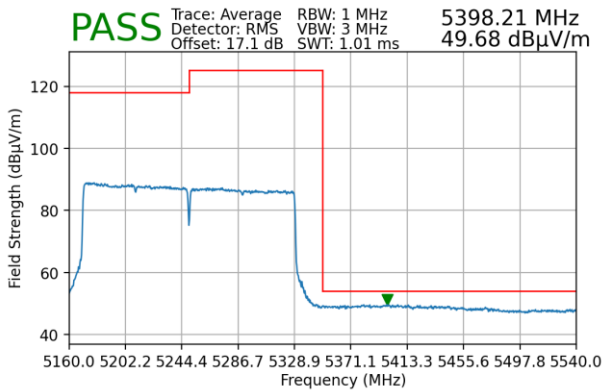


Plot 7-395. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1)

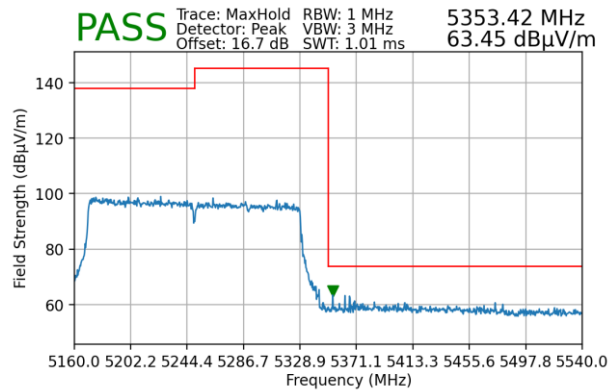


Plot 7-396. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5250MHz
Channel:	50



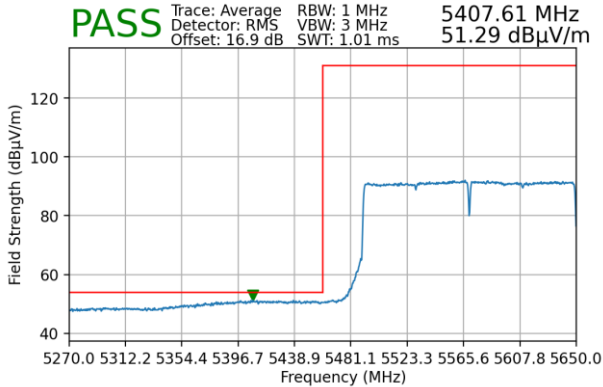
Plot 7-397. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A)



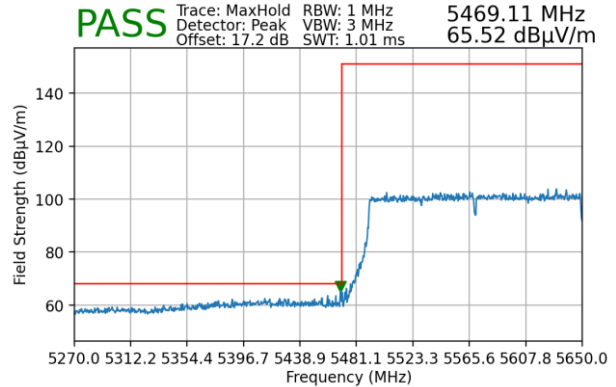
Plot 7-398. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A)

FCC ID: A3LSMX910	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5570MHz
 Channel: 114

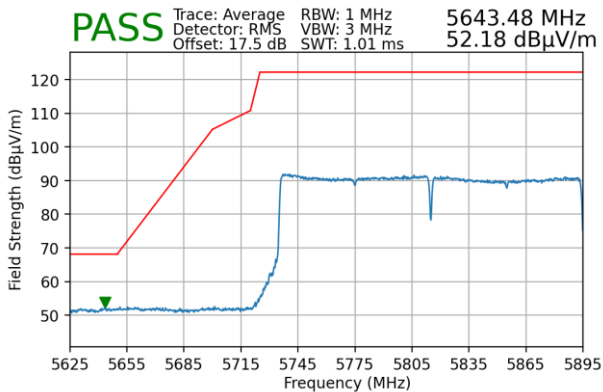


Plot 7-399. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C)

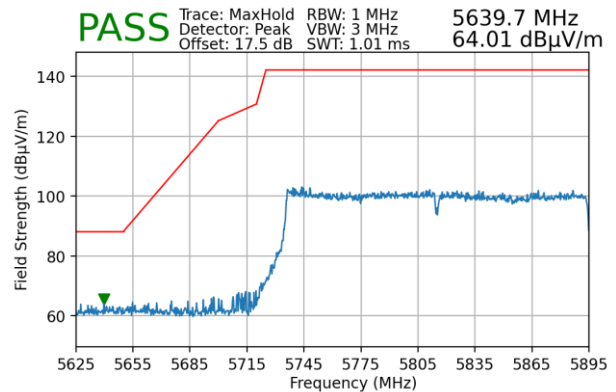


Plot 7-400. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C)

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5815MHz
 Channel: 163



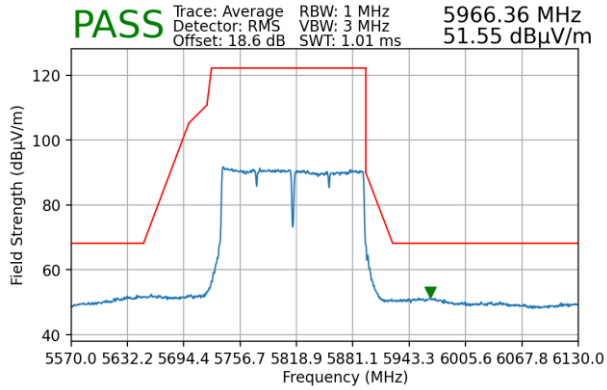
Plot 7-401. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 4)



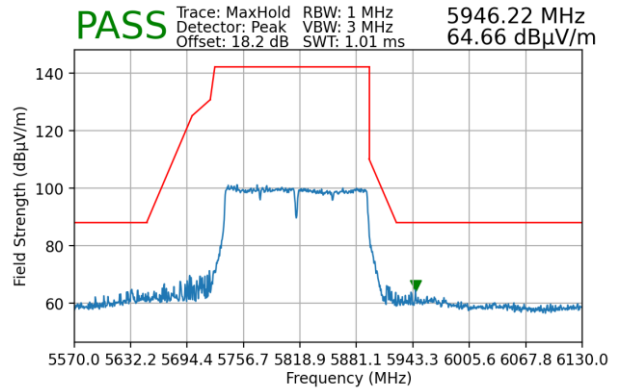
Plot 7-402. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 4)

FCC ID: A3LSMX910	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5815MHz
 Channel: 163



Plot 7-403. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 4)



Plot 7-404. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 4)

FCC ID: A3LSMX910	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2303200036-06.A3L	Test Dates: 04/03 - 05/15/2023	EUT Type: Portable Tablet	Page 237 of 255

7.7 Radiated Spurious Emissions Measurements – 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 6 of RSS-Gen (8.10) must not exceed the limits shown in Table 7- per Section 15.209 and RSS-Gen (8.9).

Frequency	Field Strength [$\mu\text{V}/\text{m}$]	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 7-42. 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

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Test Setup

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

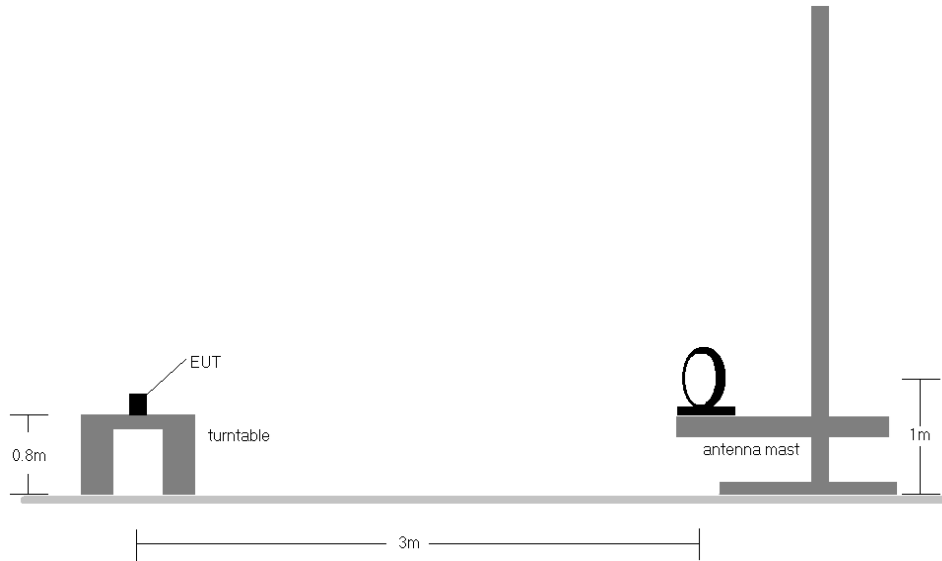


Figure 7-6. Radiated Test Setup < 30MHz

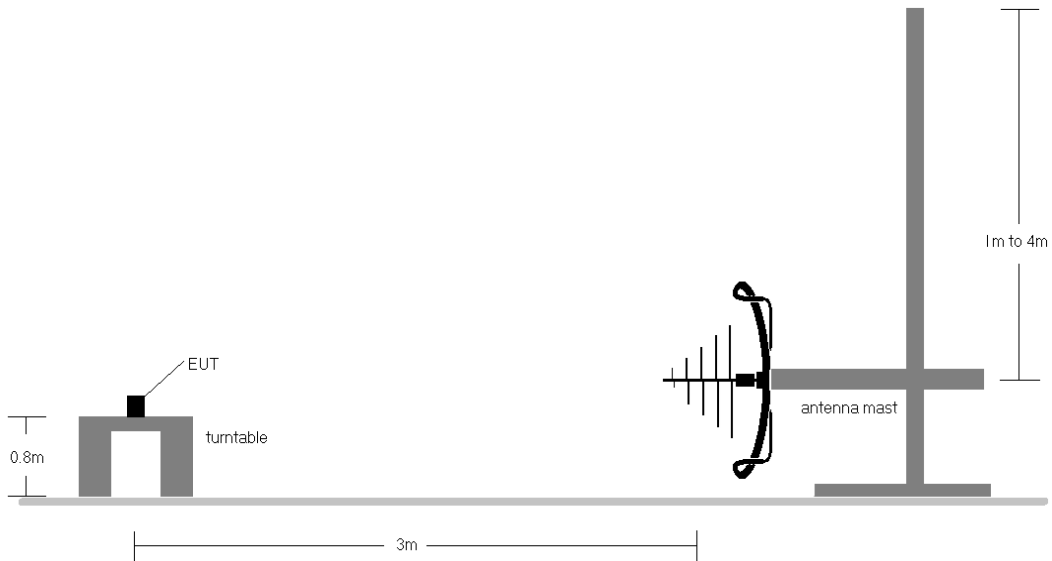


Figure 7-7. Radiated Test Setup < 1GHz

FCC ID: A3LSMX910	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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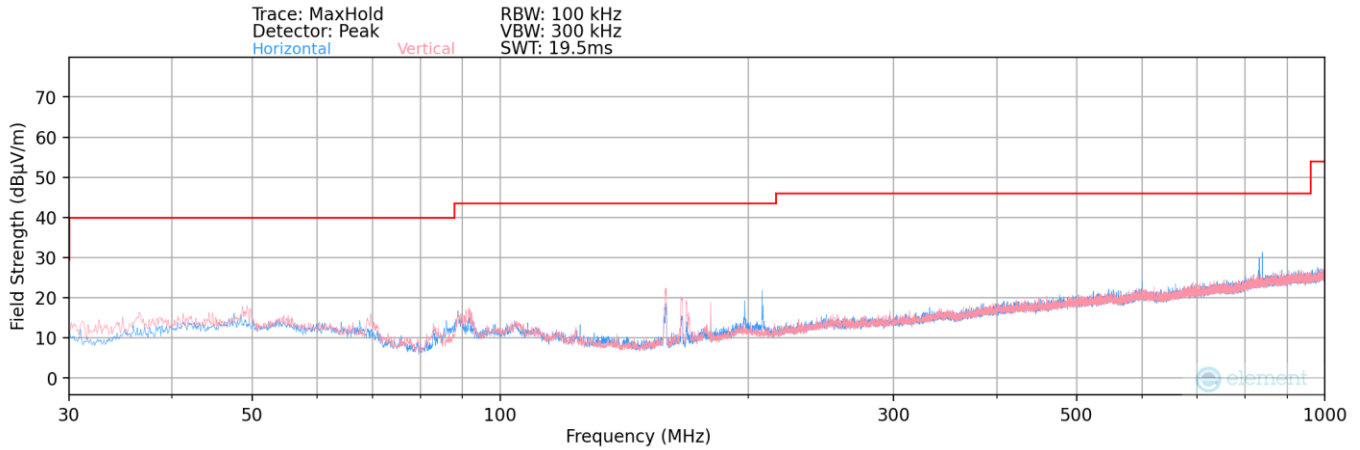
Test Notes

1. All emissions lying in restricted bands specified in §15.205 and RSS-Gen (8.10) are below the limit shown in Table 7-42.
2. The broadband receive antenna is manipulated through vertical and horizontal polarizations during the tests. The EUT is manipulated through three orthogonal planes.
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. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
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.

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MIMO Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209; RSS-Gen [8.9]



Plot 7-405. Radiated Spurious Plot below 1GHz MIMO (802.11a – U2C Ch. 120)

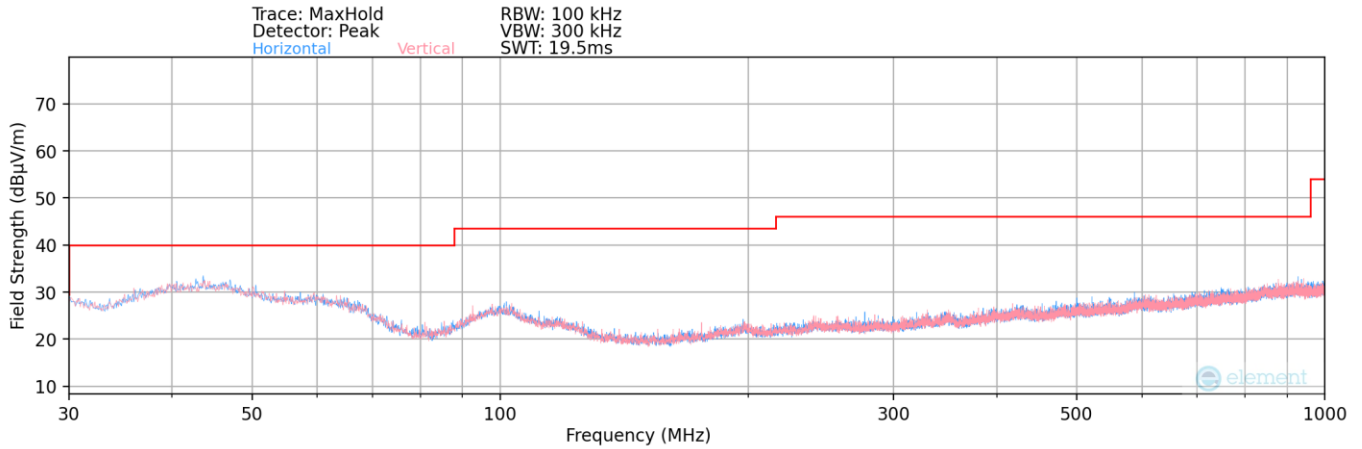
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
158.53	Quasi-Peak	V	256	97	-97.40	9.34	18.94	43.52	-24.58
165.90	Quasi-Peak	V	269	106	-98.80	9.55	17.75	43.52	-25.77
180.00	Quasi-Peak	V	255	111	-105.00	10.35	12.35	43.52	-31.17
197.98	Quasi-Peak	H	241	68	-101.80	12.59	17.79	43.52	-25.73
207.90	Quasi-Peak	H	248	67	-104.40	11.73	14.33	43.52	-29.20
852.80	Quasi-Peak	H	-	-	-114.10	24.13	17.03	46.02	-28.99

Table 7-43. Radiated Spurious Emissions below 1GHz MIMO

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Simultaneous Tx Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209; RSS-Gen [8.9]



Plot 7-406. Radiated Spurious Plot below 1GHz (Dual Band Simult. Tx)

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7.8 Line-Conducted Test Data

§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 conducted spurious emissions. Only the conducted emissions of the configuration that produced the worst case emissions are reported in this section.

All conducted emissions must not exceed the limits shown in the table below, per Section 15.207 and RSS-Gen (8.8).

Frequency of emission (MHz)	Conducted Limit (dB μ V)	
	Quasi-peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 – 30	60	50

Table 7-44. Conducted Limits

*Decreases with the logarithm of the frequency.

Test Procedures Used

ANSI C63.10-2013, Section 6.2

Test Settings

Quasi-Peak Field Strength 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 Field Strength Measurements

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

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Test Setup

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

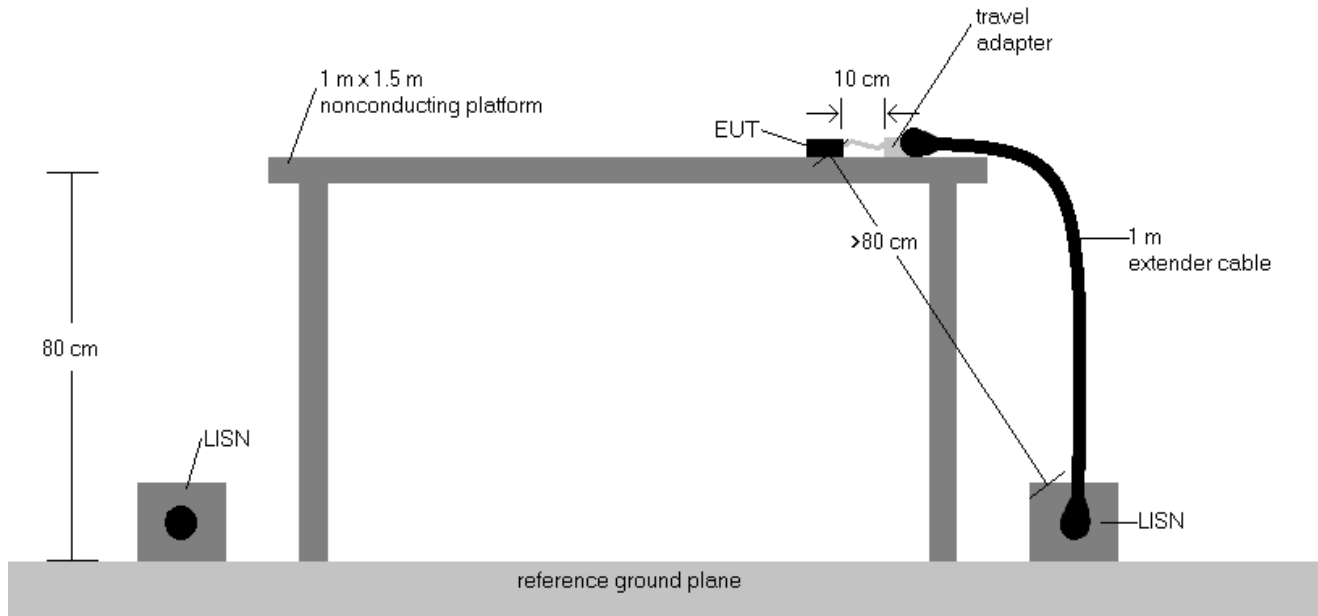
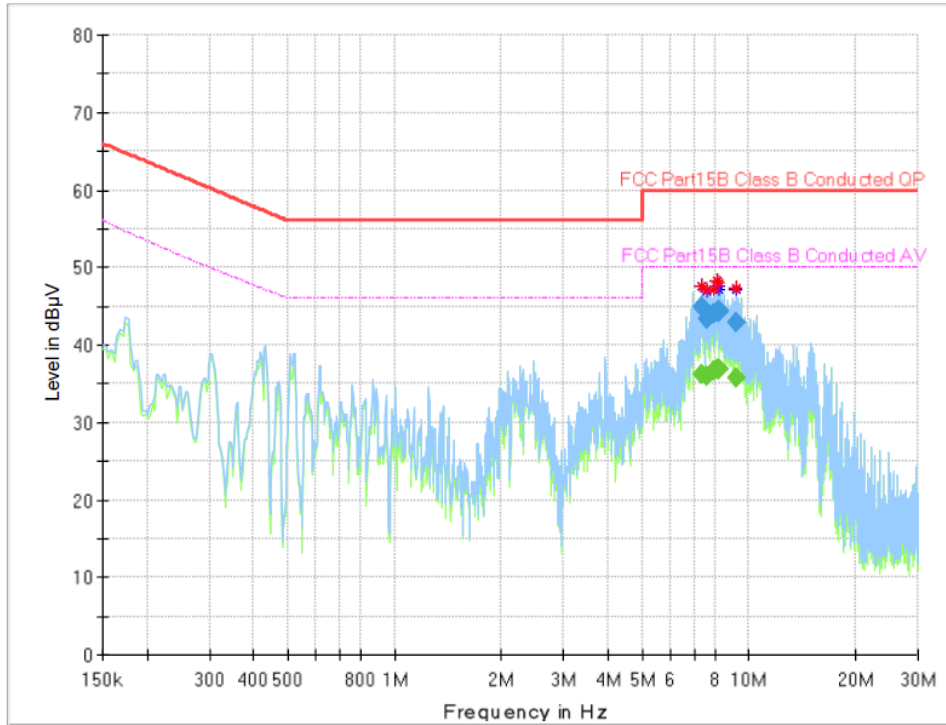


Figure 7-8. Test Instrument & Measurement Setup

Test Notes

1. All modes of operation were investigated and the worst-case emissions are reported using mid channel. The emissions found were not affected by the choice of channel used during testing.
2. The limit for an intentional radiator from 150kHz to 30MHz are specified in 15.207 and RSS-Gen (8.8).
3. $\text{Corr. (dB)} = \text{Cable loss (dB)} + \text{LISN insertion factor (dB)}$
4. $\text{QP/AV Level (dB}\mu\text{V)} = \text{QP/AV Analyzer/Receiver Level (dB}\mu\text{V)} + \text{Corr. (dB)}$
5. $\text{Margin (dB)} = \text{QP/AV Limit (dB}\mu\text{V)} - \text{QP/AV Level (dB}\mu\text{V)}$
6. Traces shown in plot are made using a peak detector.
7. Deviations to the Specifications: None.

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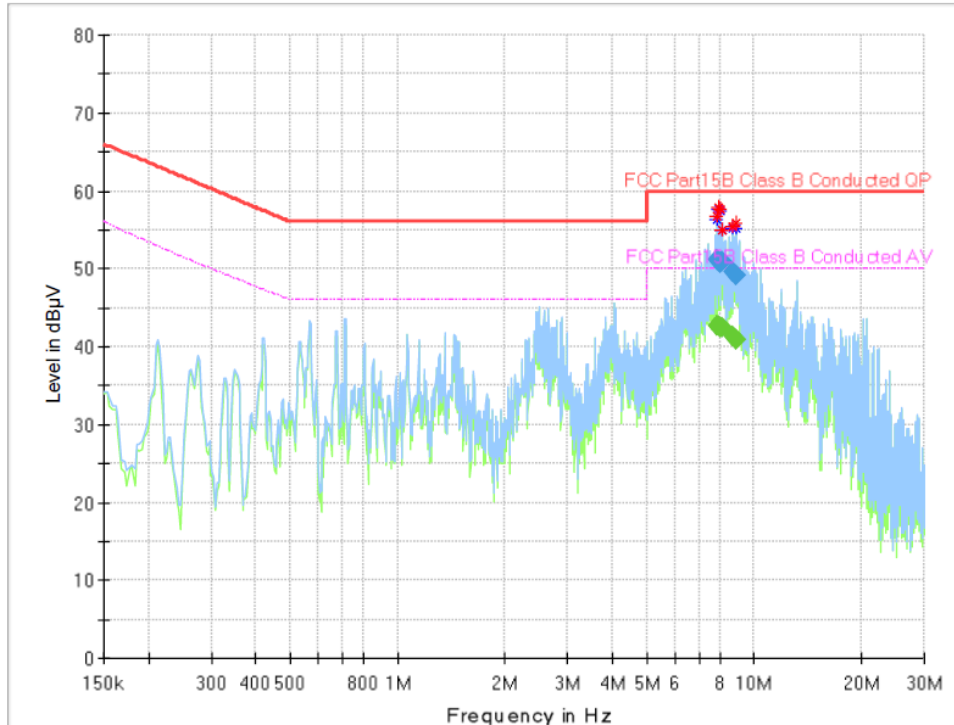
Plot 7-407. Line Conducted Plot with 802.11a UNII Band 1 (L1)

Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
7.364745	---	36.16	50.00	13.84	1000.0	9.000	L1	10.1
7.364745	44.99	---	60.00	15.02	1000.0	9.000	L1	10.1
7.627425	---	35.90	50.00	14.10	1000.0	9.000	L1	10.1
7.627425	43.29	---	60.00	16.71	1000.0	9.000	L1	10.1
7.964730	---	36.59	50.00	13.41	1000.0	9.000	L1	10.1
7.964730	43.92	---	60.00	16.08	1000.0	9.000	L1	10.1
8.146815	---	36.93	50.00	13.07	1000.0	9.000	L1	10.1
8.146815	44.29	---	60.00	15.71	1000.0	9.000	L1	10.1
8.200545	---	36.87	50.00	13.13	1000.0	9.000	L1	10.1
8.200545	44.29	---	60.00	15.71	1000.0	9.000	L1	10.1
8.236365	---	36.91	50.00	13.09	1000.0	9.000	L1	10.1
8.236365	44.42	---	60.00	15.58	1000.0	9.000	L1	10.1
9.170670	---	35.68	50.00	14.32	1000.0	9.000	L1	10.1
9.170670	42.93	---	60.00	17.07	1000.0	9.000	L1	10.1

Table 7-45. Line-Conducted Test Table with 802.11a UNII Band 1 (L1)

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Plot 7-408. Line Conducted Plot with 802.11a UNII Band 1 (N)

Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
7.851300	---	42.70	50.00	7.30	1000.0	9.000	N	10.1
7.851300	51.07	---	60.00	8.93	1000.0	9.000	N	10.1
7.985625	---	42.67	50.00	7.33	1000.0	9.000	N	10.1
7.985625	51.02	---	60.00	8.98	1000.0	9.000	N	10.1
8.069205	---	42.44	50.00	7.56	1000.0	9.000	N	10.1
8.069205	50.81	---	60.00	9.19	1000.0	9.000	N	10.1
8.099055	---	42.54	50.00	7.46	1000.0	9.000	N	10.1
8.099055	50.98	---	60.00	9.02	1000.0	9.000	N	10.1
8.693070	---	41.43	50.00	8.57	1000.0	9.000	N	10.2
8.693070	49.66	---	60.00	10.34	1000.0	9.000	N	10.2
8.887095	---	40.86	50.00	9.14	1000.0	9.000	N	10.2
8.887095	49.11	---	60.00	10.89	1000.0	9.000	N	10.2

Table 7-46. Line-Conducted Test Table with 802.11a UNII Band 1 (N)

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