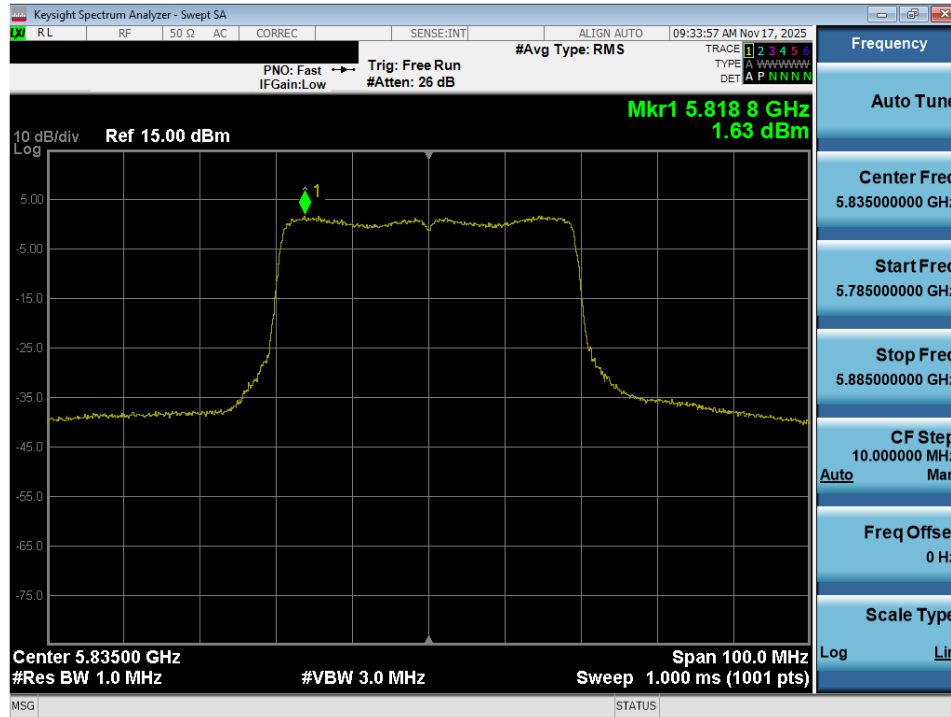
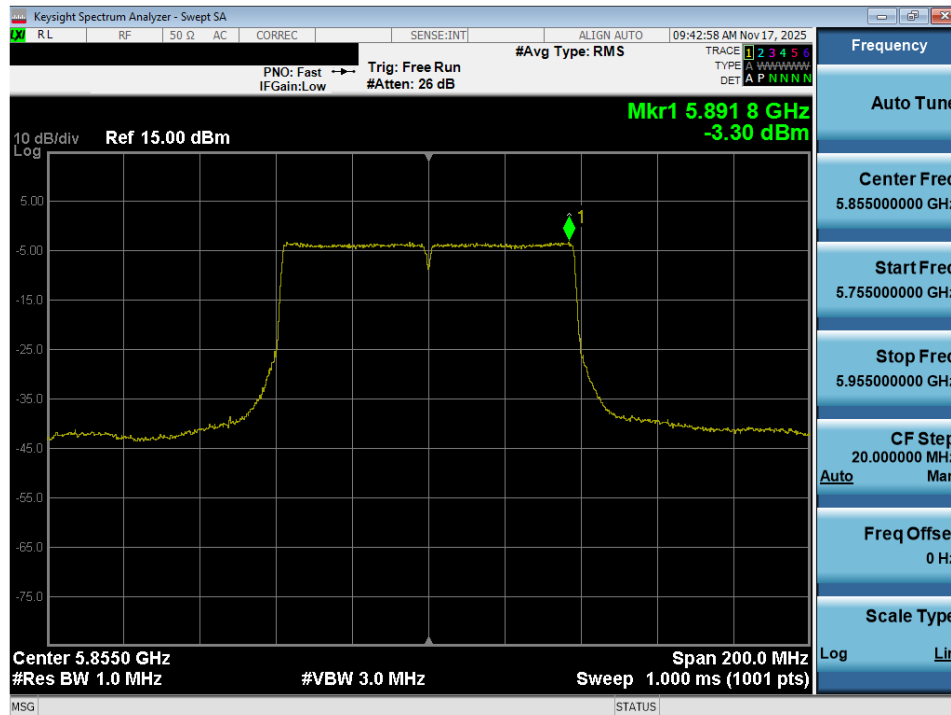


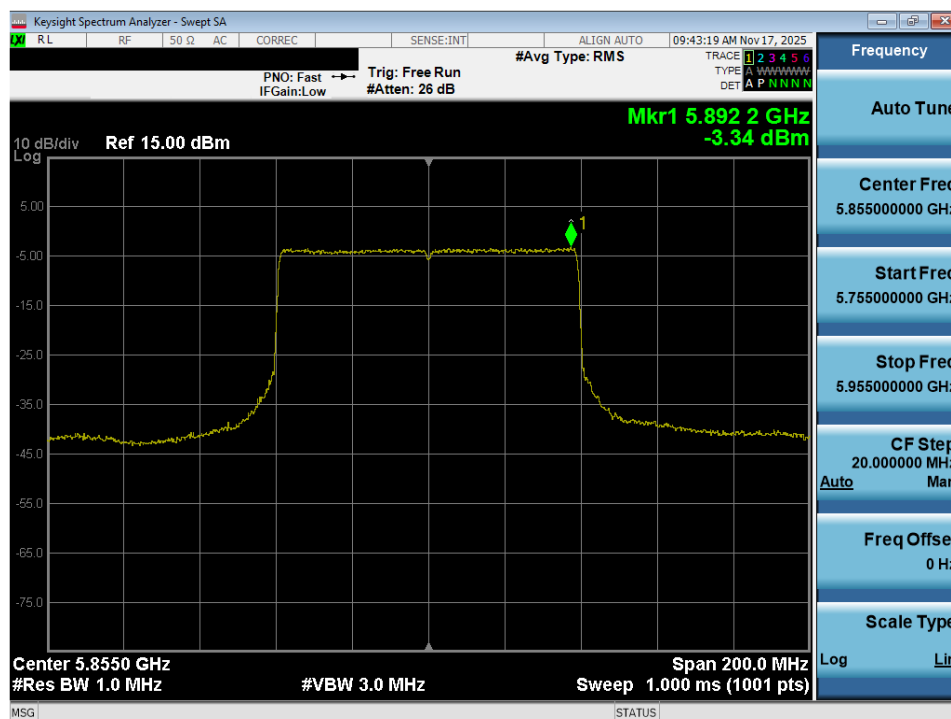


Plot 7-110. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 3/4) – Ch. 167)



Plot 7-111. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ac (UNII Band 3/4) – Ch. 171)

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Plot 7-112. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax (UNII Band 3/4) – Ch. 171)

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Note:

Per ANSI C63.10:2020 Section 14.5.2.2, 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 802.11a (20MHz BW) mode, the average conducted power spectral density was measured to be 2.42 dBm for Antenna 1 and 5.22 dBm for Antenna 2.

Antenna 1 + Antenna 2 = MIMO

$$(2.42 \text{ dBm} + 5.22 \text{ dBm}) = (1.745 \text{ mW} + 3.326 \text{ mW}) = 5.070 \text{ mW} = 7.05 \text{ dBm}$$

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

At 5180MHz in 802.11a (20MHz BW) mode, the average MIMO power density was calculated to be 7.05 dBm with directional gain of -3.49 dBi.

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

$$7.05 \text{ dBm} + -3.49 \text{ dBi} + 0.16 = 3.72 \text{ dBm}$$

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7.6 Radiated Emission Measurements

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 C63.10:2020, and at the appropriate frequencies. All channels, modes, 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 the table below per FCC §15.209 and RSS-Gen (8.9).

Frequency	Field Strength [μV/m]	Measured Distance [Meters]
0.009 – 0.490 MHz	2400\F (kHz)	300
0.490 – 1.705 MHz	24000\F (kHz)	30
1.705 – 30.00 MHz	30	30
30.00 – 88.00 MHz	100	3
88.00 – 216.0 MHz	150	3
216.0 – 960.0 MHz	200	3
Above 960.0 MHz	500	3

Table 7-18. Radiated Limits

Test Procedures Used

ANSI C63.10:2020 – Sections 12.7.7.2, 12.7.6, 12.7.5 (Radiated Spurious Emissions)

ANSI C63.10:2020 – Section 12.7.4.4 (Band Edge Measurements)

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Test Settings – Above 1GHz

Average Field Strength Measurements (Method AD – Average Detection)

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 $\geq 2 \times \text{span} \backslash \backslash \text{RBW}$)
6. Sweep time = auto
7. Trace (RMS) averaging was performed over at least 100 traces.

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 Settings – Below 1GHz

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.

Test Setup

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

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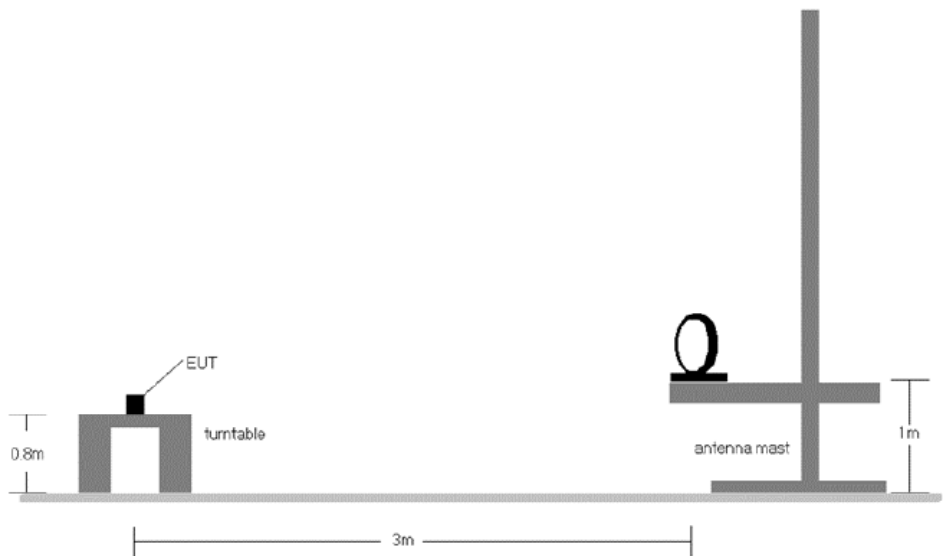


Figure 7-5. Radiated Test Setup < 30MHz

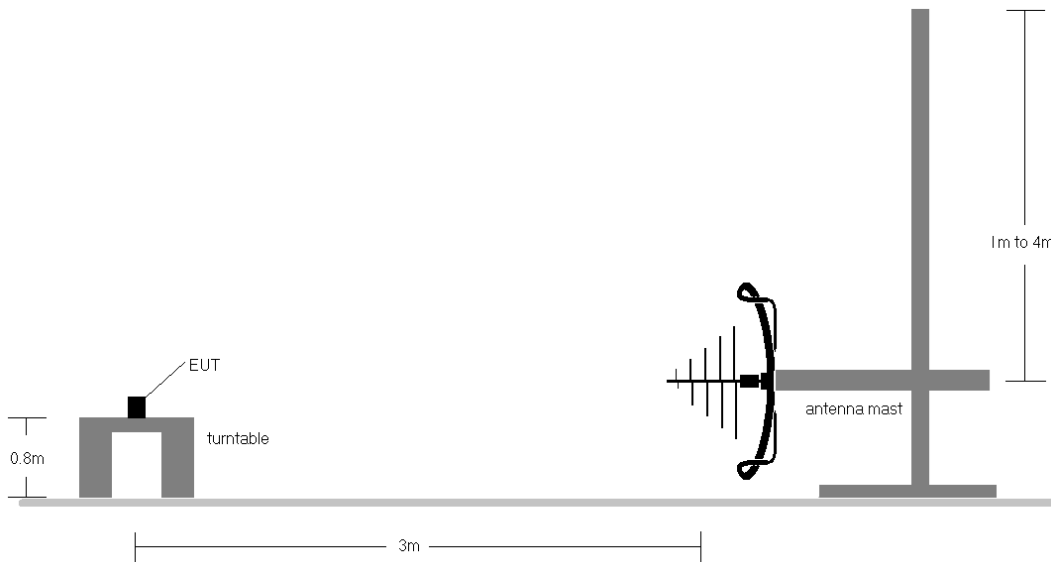


Figure 7-6. Radiated Test Setup < 1GHz

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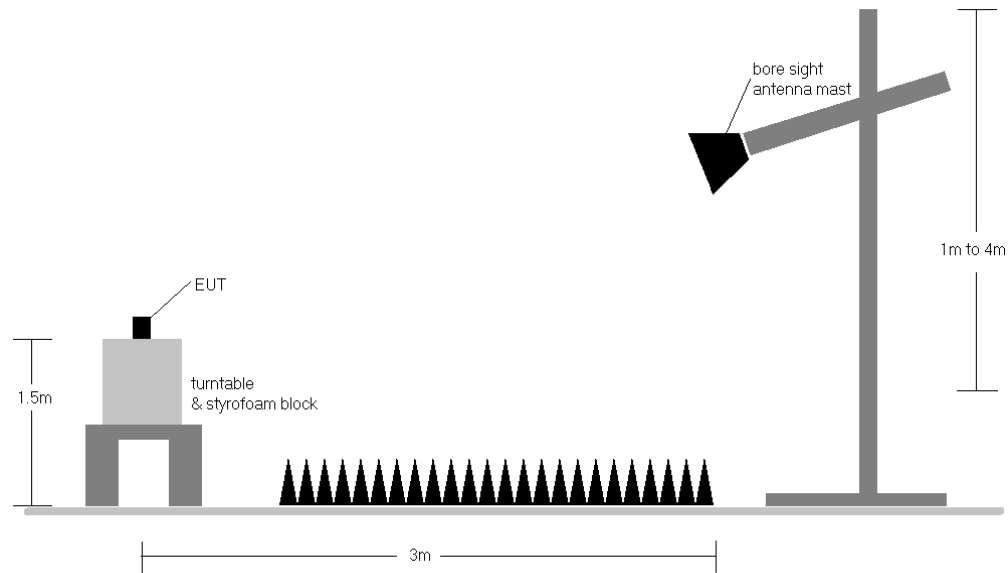


Figure 7-7. Radiated Test Setup > 1GHz

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Test Notes

1. All spurious emissions lying in restricted bands specified in §15.205 are below the limits shown in §15.209. All spurious emissions that do not lie in a restricted band are subject to an average limit of -27dBm/MHz. At 3 meters, the field strength limit in dB μ 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 μ V/m.
2. All spurious emissions that do not lie in a restricted band are subject to a peak limit not to exceed 20dB of the average limit [68.2dB μ V/m]. If a peak measurement passes the average limit, it was determined no further investigation is necessary.
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. 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. In the case where a peak-detector measurement passed the given RMS limit it was determined sufficient to demonstrate compliance.
10. The results recorded using the broadband antenna are 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.
11. In this section, plots showing measurements shown as "channel power" are recorded using the integration methods described in Section 11.12.3.2 of ANSI C63.10:2020 for average and peak measurements as allowed per Section 12.7.4.4.1. Also, the average measurements include the duty cycle correction factor shown in Section 2.2 of this report.

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Sample Calculations

Determining Spurious Emissions Levels

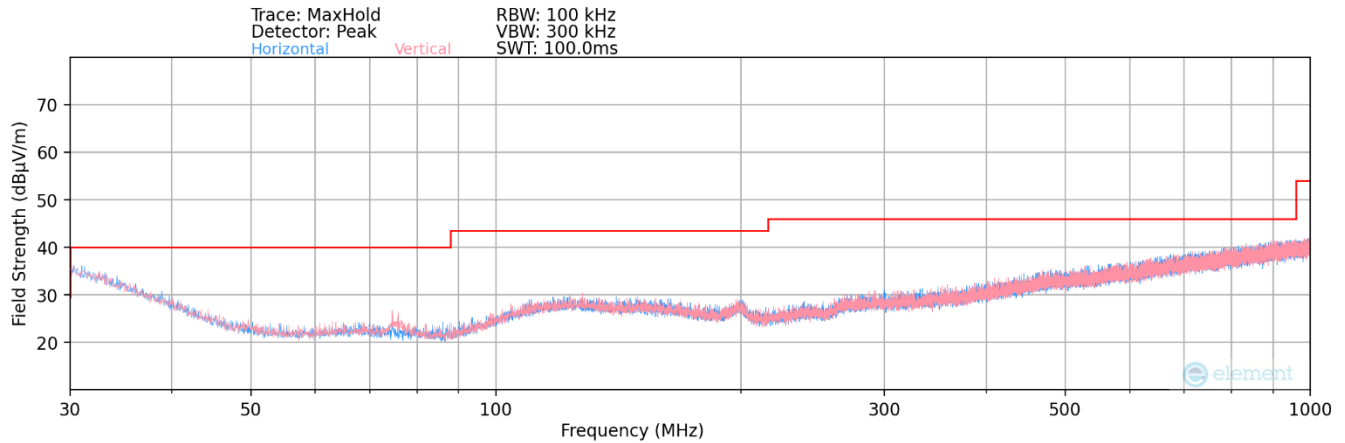
- Field Strength Level $_{[dB\mu V/m]} = \text{Analyzer Level }_{[dBm]} + 107 + \text{AFCL }_{[dB/m]}$
- $\text{AFCL }_{[dB/m]} = \text{Antenna Factor }_{[dB/m]} + \text{Cable Loss }_{[dB]}$
- $\text{Margin }_{[dB]} = \text{Field Strength Level }_{[dB\mu V/m]} - \text{Limit }_{[dB\mu V/m]}$

Radiated Band Edge Measurement Offset

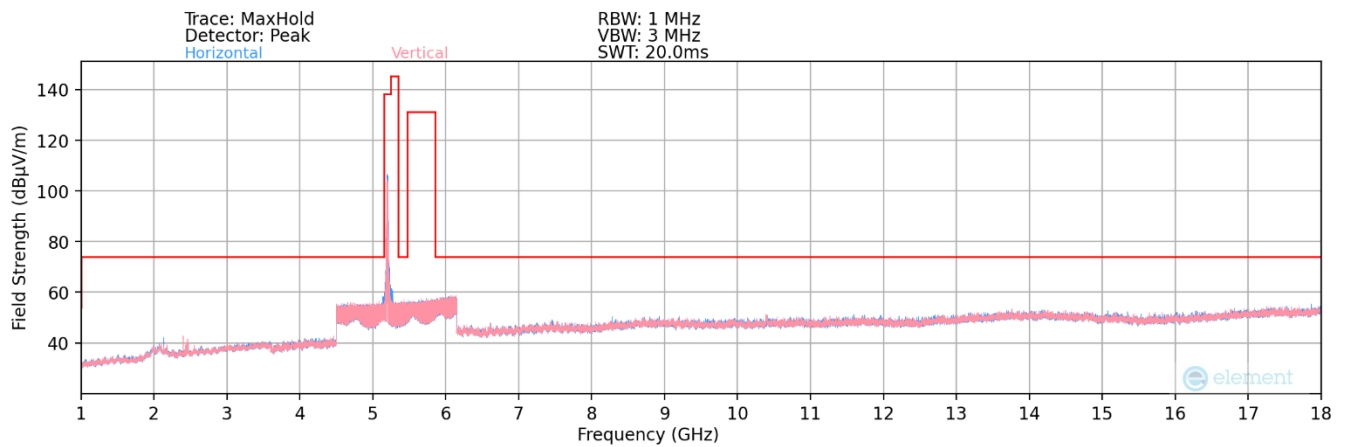
- The amplitude offset shown in the radiated restricted band edge plots was calculated using the formula:
Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

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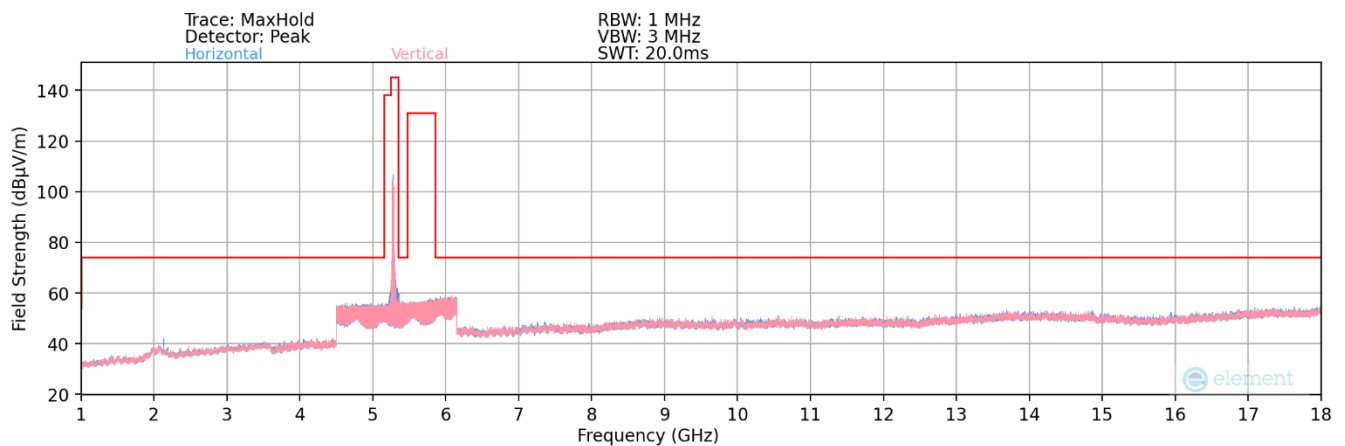
7.6.1 MIMO Radiated Spurious Emission Measurements



Plot 7-113. Radiated Spurious Plot below 1GHz MIMO (802.11a)

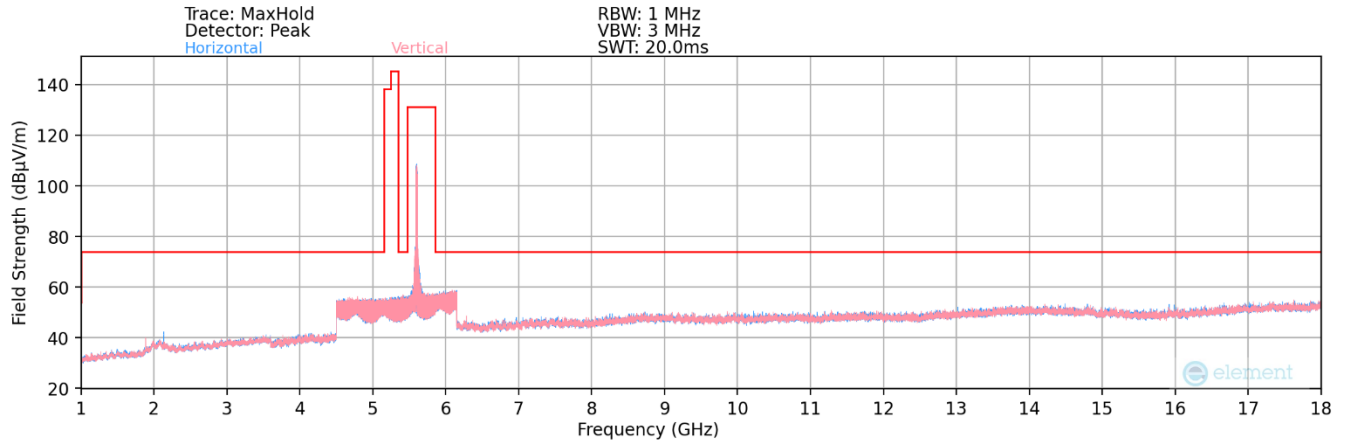


Plot 7-114. Radiated Spurious Plot above 1GHz MIMO (802.11a – UNII Band 1 Ch. 40)

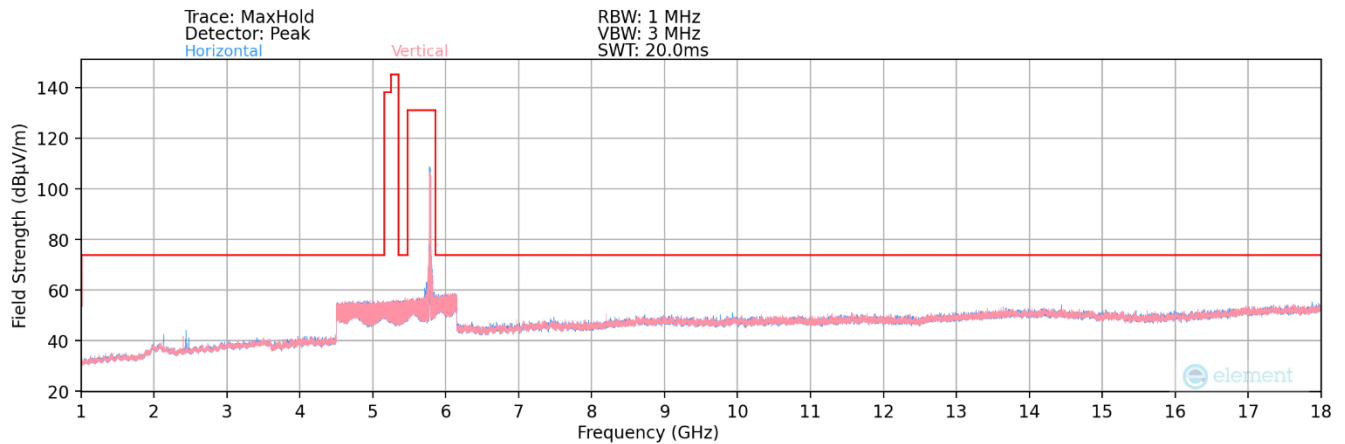


Plot 7-115. Radiated Spurious Plot above 1GHz MIMO (802.11a – UNII Band 2A Ch. 56)

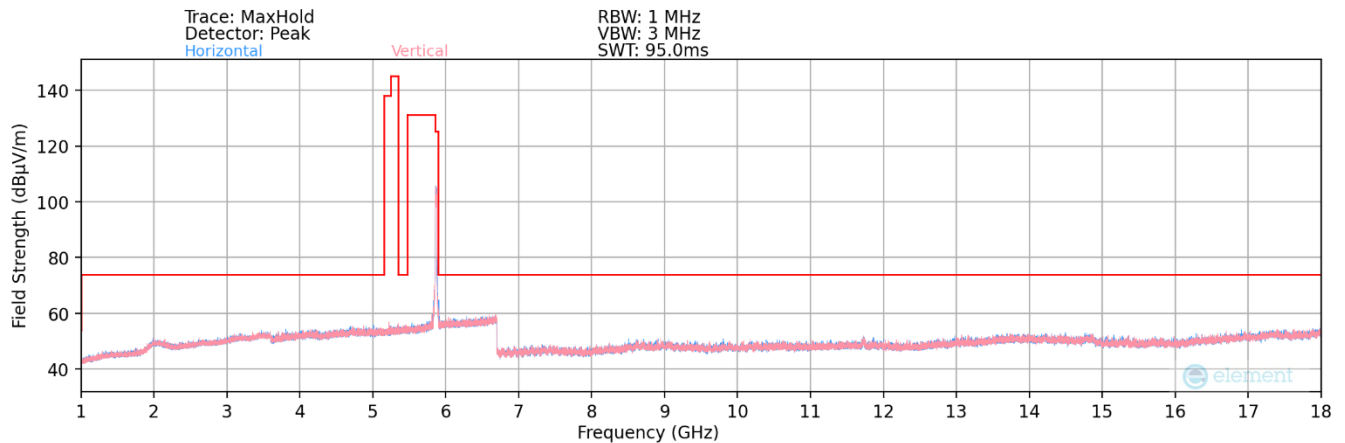
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Plot 7-116. Radiated Spurious Plot above 1GHz MIMO (802.11a – UNII Band 2C Ch. 120)

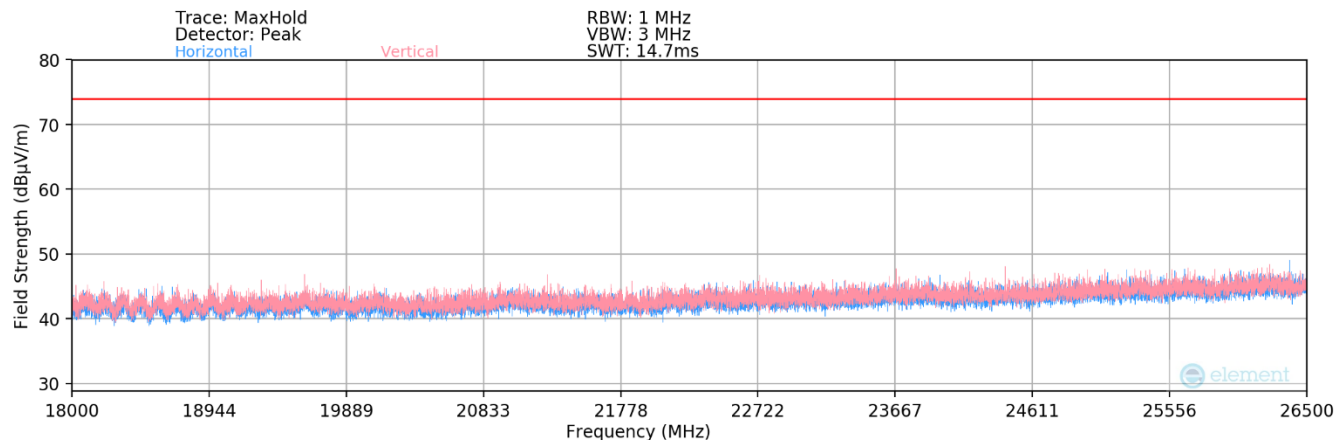


Plot 7-117. Radiated Spurious Plot above 1GHz MIMO (802.11a – UNII Band 3 Ch. 157)

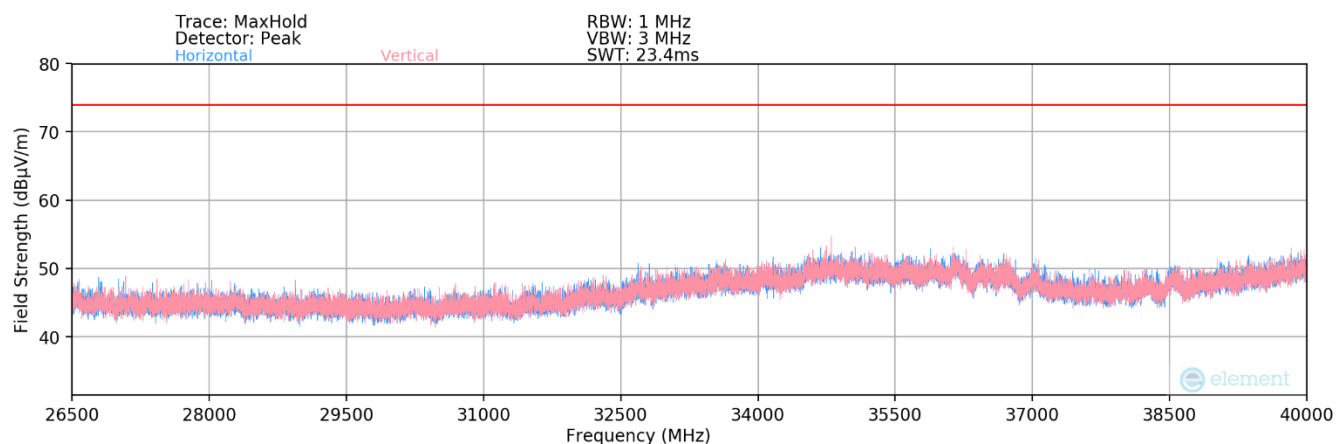


Plot 7-118. Radiated Spurious Plot above 1GHz MIMO (802.11a – UNII Band 4 Ch. 173)

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Plot 7-119. Radiated Spurious Plot 18GHz – 26.5GHz MIMO (802.11a)



Plot 7-120. Radiated Spurious Plot 26.5GHz – 40GHz MIMO (802.11a)

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MIMO Radiated Spurious Emission Measurements – UNII Band 1

Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	Restricted	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]
802.11a	MIMO	1	36	5180		10360.00	Peak	V	227	334	-63.78	12.04	0.00	55.26	68.20	-12.94
					*	15540.00	Average	V	-	-	-81.43	14.08	0.00	39.65	53.98	-14.33
					*	15540.00	Peak	V	-	-	-69.87	14.08	0.00	51.21	73.98	-22.77
					*	20720.00	Average	V	-	-	-66.31	2.48	-9.54	33.63	53.98	-20.35
					*	20720.00	Peak	V	-	-	-56.46	2.48	-9.54	43.48	73.98	-30.50
						25900.00	Peak	V	-	-	-56.48	4.78	-9.54	45.76	68.20	-22.44
			40	5200		10400.00	Peak	V	164	336	-64.42	12.45	0.00	55.03	68.20	-13.17
					*	15600.00	Average	V	-	-	-81.37	14.12	0.00	39.75	53.98	-14.23
					*	15600.00	Peak	V	-	-	-69.58	14.12	0.00	51.54	73.98	-22.44
					*	20800.00	Average	V	-	-	-66.83	2.52	-9.54	33.15	53.98	-20.83
					*	20800.00	Peak	V	-	-	-55.74	2.52	-9.54	44.24	73.98	-29.74
						26000.00	Peak	V	-	-	-56.50	4.78	-9.54	45.75	68.20	-22.45
			48	5240		10480.00	Peak	V	144	338	-65.21	13.04	0.00	54.83	68.20	-13.37
					*	15720.00	Average	V	-	-	-81.11	14.52	0.00	40.41	53.98	-13.57
					*	15720.00	Peak	V	-	-	-69.41	14.52	0.00	52.11	73.98	-21.87
					*	20960.00	Average	V	-	-	-68.08	2.84	-9.54	32.21	53.98	-21.77
					*	20960.00	Peak	V	-	-	-56.46	2.84	-9.54	43.84	73.98	-30.14
						26200.00	Peak	V	-	-	-55.63	4.91	-9.54	46.74	68.20	-21.46

Table 7-19. Radiated Measurements MIMO

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MIMO Radiated Spurious Emission Measurements – UNII Band 2A

Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	Restricted	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]
802.11a	MIMO	2A	52	5260		10520.00	Peak	V	134	335	-65.24	13.01	0.00	54.77	68.20	-13.43
					*	15780.00	Average	V	-	-	-82.14	14.41	0.00	39.27	53.98	-14.71
					*	15780.00	Peak	V	-	-	-70.35	14.41	0.00	51.06	73.98	-22.92
					*	21040.00	Average	V	-	-	-67.58	2.92	-9.54	32.81	53.98	-21.17
					*	21040.00	Peak	V	-	-	-56.34	2.92	-9.54	44.05	73.98	-29.93
						26300.00	Peak	V	-	-	-56.72	4.91	-9.54	45.66	68.20	-22.54
			56	5280		10560.00	Peak	V	134	338	-65.00	12.82	0.00	54.82	68.20	-13.38
					*	15840.00	Average	V	-	-	-80.94	14.10	0.00	40.16	53.98	-13.82
					*	15840.00	Peak	V	-	-	-68.90	14.10	0.00	52.20	73.98	-21.78
					*	21120.00	Average	V	-	-	-67.19	2.87	-9.54	33.13	53.98	-20.84
					*	21120.00	Peak	V	-	-	-56.07	2.87	-9.54	44.26	73.98	-29.72
						26400.00	Peak	V	-	-	-56.35	4.85	-9.54	45.96	68.20	-22.24
			64	5320	*	10640.00	Average	V	138	335	-74.96	12.81	0.00	44.85	53.98	-9.13
					*	10640.00	Peak	V	138	335	-63.44	12.81	0.00	56.37	73.98	-17.61
					*	15960.00	Average	V	-	-	-81.99	15.15	0.00	40.16	53.98	-13.82
					*	15960.00	Peak	V	-	-	-69.95	15.15	0.00	52.20	73.98	-21.78
					*	21280.00	Average	V	-	-	-66.70	2.96	-9.54	33.72	53.98	-20.26
					*	21280.00	Peak	V	-	-	-58.95	2.96	-9.54	41.47	73.98	-32.51
						26600.00	Peak	V	-	-	-57.40	5.05	-9.54	45.12	68.20	-23.08

Table 7-20. Radiated Measurements MIMO

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MIMO Radiated Spurious Emission Measurements – UNII Band 2C

Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	Restricted	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]
802.11a	MIMO	2C	100	5500	*	11000.00	Average	V	139	342	-76.94	12.47	0.00	42.53	53.98	-11.45
					*	11000.00	Peak	V	139	342	-65.12	12.47	0.00	54.35	73.98	-19.63
						16500.00	Peak	V	-	-	-69.69	15.62	-9.54	43.39	68.20	-24.81
						22000.00	Peak	V	-	-	-56.71	3.01	-9.54	43.76	68.20	-24.44
						27500.00	Peak	V	-	-	-56.00	5.00	-9.54	46.47	68.20	-21.73
			120	5600	*	11200.00	Average	V	174	311	-78.21	12.60	0.00	41.39	53.98	-12.59
					*	11200.00	Peak	V	174	311	-66.26	12.60	0.00	53.34	73.98	-20.64
						16800.00	Peak	V	-	-	-69.58	16.11	0.00	53.53	68.20	-14.67
					*	22400.00	Average	V	-	-	-66.48	3.44	-9.54	34.42	53.98	-19.56
					*	22400.00	Peak	V	-	-	-58.46	3.44	-9.54	42.44	73.98	-31.54
						28000.00	Peak	V	-	-	-56.49	5.31	-9.54	46.28	68.20	-21.92
			144	5720	*	11440.00	Average	V	400	4	-79.39	13.48	0.00	41.09	53.98	-12.89
					*	11440.00	Peak	V	400	4	-68.19	13.48	0.00	52.29	73.98	-21.69
						17160.00	Peak	V	-	-	-70.25	16.71	0.00	53.46	68.20	-14.74
					*	22880.00	Average	V	-	-	-67.07	3.60	-9.54	34.00	53.98	-19.98
					*	22880.00	Peak	V	-	-	-55.91	3.60	-9.54	45.16	73.98	-28.82
						28600.00	Peak	V	-	-	-56.71	5.30	-9.54	46.06	68.20	-22.14

Table 7-21. Radiated Measurements MIMO

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MIMO Radiated Spurious Emission Measurements – UNII Band 3

Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	Restricted	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]
802.11a	MIMO	3	149	5745	*	11490.00	Average	V	167	312	-79.12	13.01	0.00	40.89	53.98	-13.09
					*	11490.00	Peak	V	167	312	-67.36	13.01	0.00	52.65	73.98	-21.33
						17235.00	Peak	V	-	-	-69.60	16.91	0.00	54.31	68.20	-13.89
					*	22980.00	Average	V	-	-	-67.54	3.63	-9.54	33.55	53.98	-20.43
					*	22980.00	Peak	V	-	-	-55.87	3.63	-9.54	45.22	73.98	-28.76
						28725.00	Peak	V	-	-	-56.27	5.24	-9.54	46.43	68.20	-21.77
			157	5785	*	11570.00	Average	V	379	1	-77.50	13.03	0.00	42.53	53.98	-11.45
					*	11570.00	Peak	V	379	1	-66.38	13.03	0.00	53.65	73.98	-20.33
						17355.00	Peak	V	-	-	-70.31	17.67	0.00	54.36	68.20	-13.84
						23140.00	Peak	V	-	-	-56.27	3.75	-9.54	44.94	68.20	-23.26
						28925.00	Peak	V	-	-	-56.14	5.12	-9.54	46.44	68.20	-21.76
			165	5825	*	11650.00	Average	V	123	5	-78.51	13.41	0.00	41.90	53.98	-12.08
					*	11650.00	Peak	V	123	5	-67.16	13.41	0.00	53.25	73.98	-20.73
						17475.00	Peak	V	-	-	-69.94	16.84	0.00	53.90	68.20	-14.30
						23300.00	Peak	V	-	-	-56.07	3.73	-9.54	45.12	68.20	-23.08
						29125.00	Peak	V	-	-	-56.25	5.23	-9.54	46.45	68.20	-21.75

Table 7-22. Radiated Measurements MIMO

FCC ID: A3LSMA576B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280091-16.A3L	Test Dates: 10/29/2025-12/18/2025	EUT Type: Portable Handset	Page 102 of 124



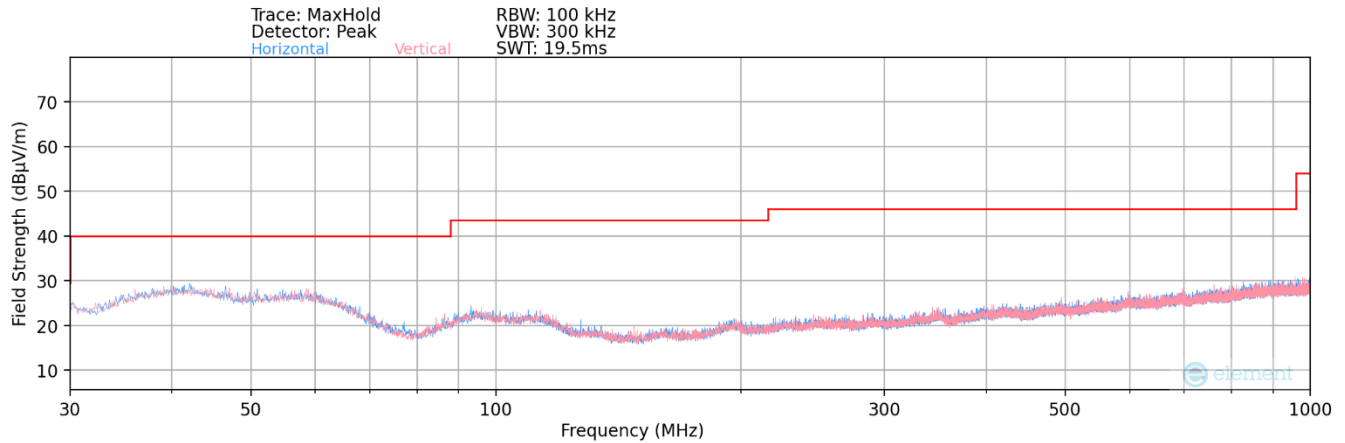
MIMO Radiated Spurious Emission Measurements – UNII Band 4

Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	Restricted	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]
802.11a	MIMO	4	169	5845	*	11690.00	Average	V	235	1	-77.51	13.27	0.00	42.76	53.98	-11.22
					*	11690.00	Peak	V	235	1	-66.43	13.27	0.00	53.84	73.98	-20.14
						17535.00	Peak	V	-	-	-69.64	17.37	0.00	54.73	68.20	-13.47
						23380.00	Peak	V	-	-	-55.85	3.80	-9.54	45.42	68.20	-22.78
						29225.00	Peak	V	-	-	-56.71	5.22	-9.54	45.97	68.20	-22.23
			173	5865	*	11730.00	Average	V	162	0	-78.30	14.39	0.00	43.09	53.98	-10.89
					*	11730.00	Peak	V	162	0	-66.98	14.39	0.00	54.41	73.98	-19.57
						17595.00	Peak	V	-	-	-70.22	17.00	0.00	53.78	68.20	-14.42
						23460.00	Peak	V	-	-	-55.94	3.86	-9.54	45.38	68.20	-22.82
						29325.00	Peak	V	-	-	-56.23	5.14	-9.54	46.37	68.20	-21.83
			177	5885	*	11770.00	Average	V	124	5	-79.78	13.93	0.00	41.15	53.98	-12.83
					*	11770.00	Peak	V	124	5	-68.52	13.93	0.00	52.41	73.98	-21.57
						17655.00	Peak	V	-	-	-69.59	16.89	0.00	54.30	68.20	-13.90
						23540.00	Peak	V	-	-	-56.49	4.01	-9.54	44.97	68.20	-23.23
						29425.00	Peak	V	-	-	-56.96	5.11	-9.54	45.60	68.20	-22.60

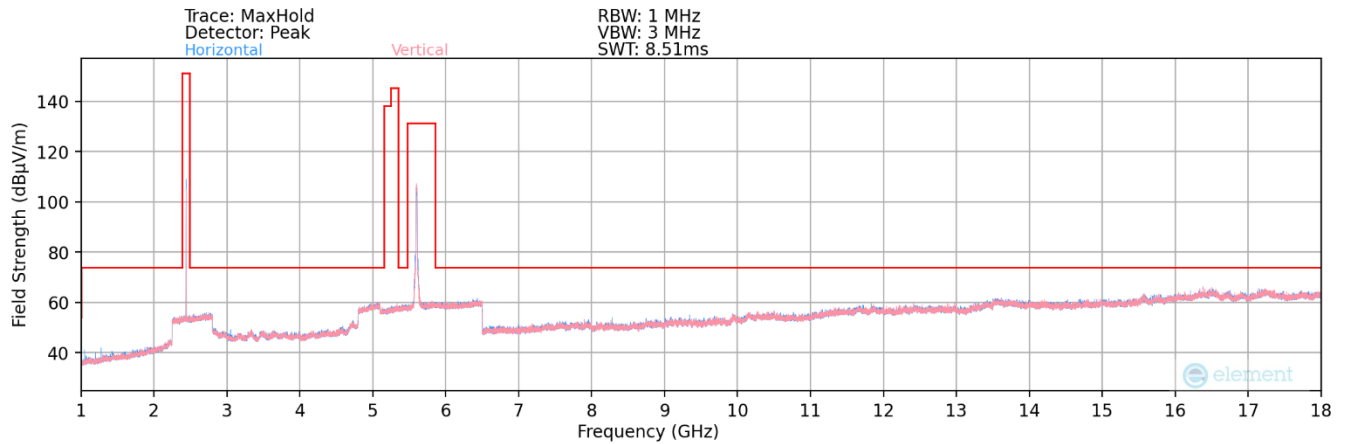
Table 7-23. Radiated Measurements MIMO

FCC ID: A3LSMA576B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280091-16.A3L	Test Dates: 10/29/2025-12/18/2025	EUT Type: Portable Handset	Page 103 of 124

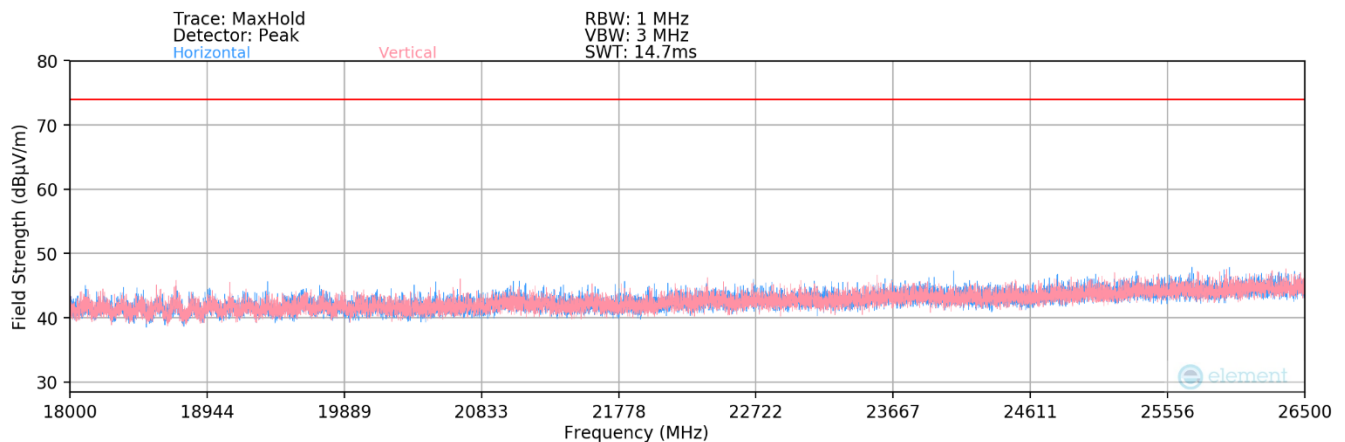
Radiated Spurious Emission Measurements – Simultaneous Transmission



Plot 7-121. Radiated Spurious Plot below 1GHz Bluetooth (1Mbps – CH39) + MIMO 802.11a (5GHz – Ch.120)

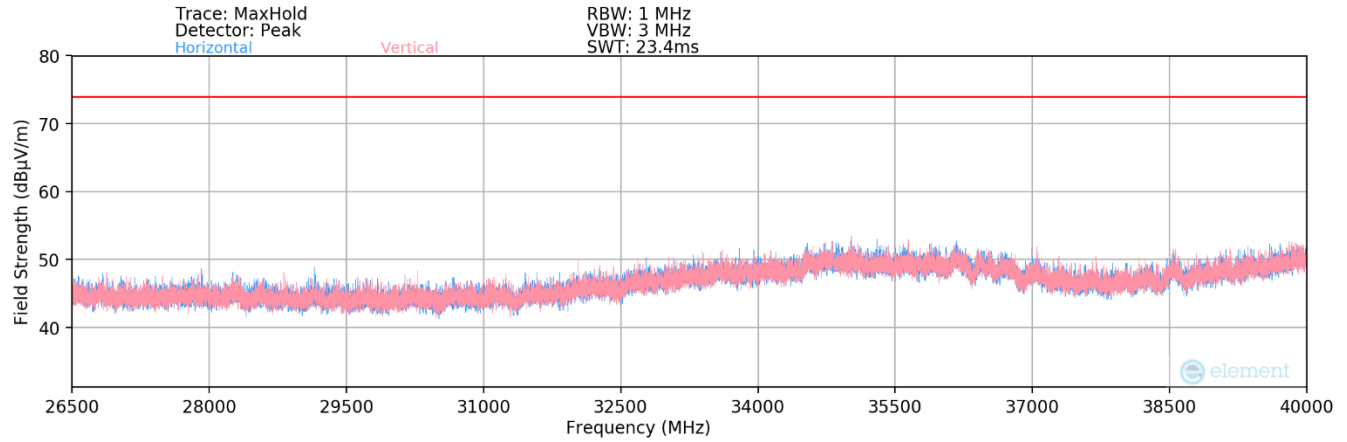


Plot 7-122. Radiated Spurious Plot above 1GHz Bluetooth (1Mbps – CH39) + MIMO 802.11a (5GHz – Ch.120)



Plot 7-123. Radiated Spurious Plot 18GHz – 26.6GHz Bluetooth (1Mbps – CH39) + MIMO 802.11a (5GHz – Ch.120)

FCC ID: A3LSMA576B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280091-16.A3L	Test Dates: 10/29/2025-12/18/2025	EUT Type: Portable Handset	Page 104 of 124



Plot 7-124. Radiated Spurious Plot 26.6GHz – 40GHz Bluetooth (1Mbps – CH39) + MIMO 802.11a (5GHz – Ch.120)

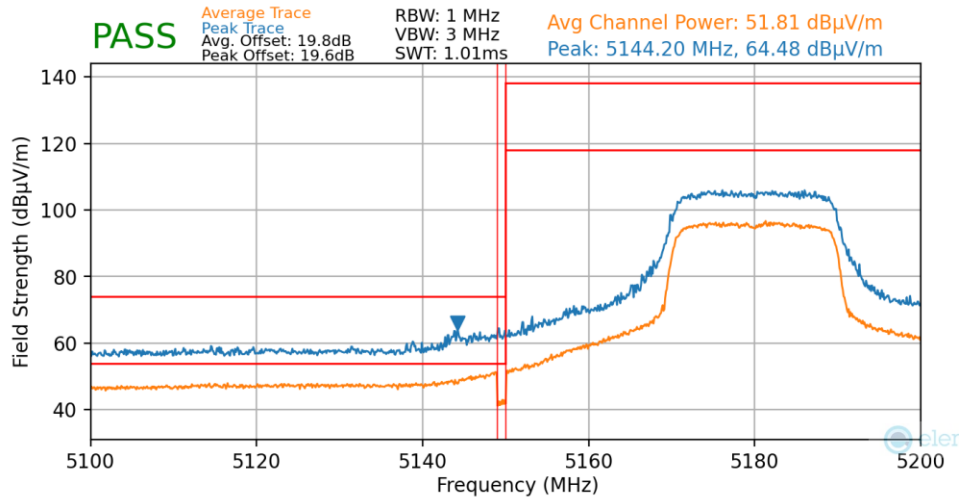
Mode	Antenna	Channel	Test Channel Freq. [MHz]	Restricted	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
BT 1Mbps + UNII 802.11a	BT SISO + UNII MIMO	BTCh39 & 5GHz Ch120	2441 & 5600		718.00	Peak	H	-	-	-78.50	-3.02	0.00	25.48	46.02	-20.54
					1723.00	Peak	H	-	-	-67.29	1.08	0.00	40.79	68.20	-27.41
					3159.00	Peak	H	-	-	-68.03	7.36	0.00	46.33	68.20	-21.87
					6318.00	Peak	H	-	-	-71.02	13.59	0.00	49.57	68.20	-18.63
				*	8041.00	Average	H	-	-	-83.17	16.19	0.00	40.02	53.98	-13.96
				*	8041.00	Peak	H	-	-	-71.19	16.19	0.00	52.00	73.98	-21.98
					8759.00	Peak	H	-	-	-70.75	17.58	0.00	53.83	68.20	-14.37
					10482.00	Peak	H	-	-	-72.36	21.37	0.00	56.01	68.20	-12.19

Table 7-24. Radiated Measurements Bluetooth (1Mbps) + MIMO 802.11a (5GHz)

FCC ID: A3LSMA576B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280091-16.A3L	Test Dates: 10/29/2025-12/18/2025	EUT Type: Portable Handset	Page 105 of 124

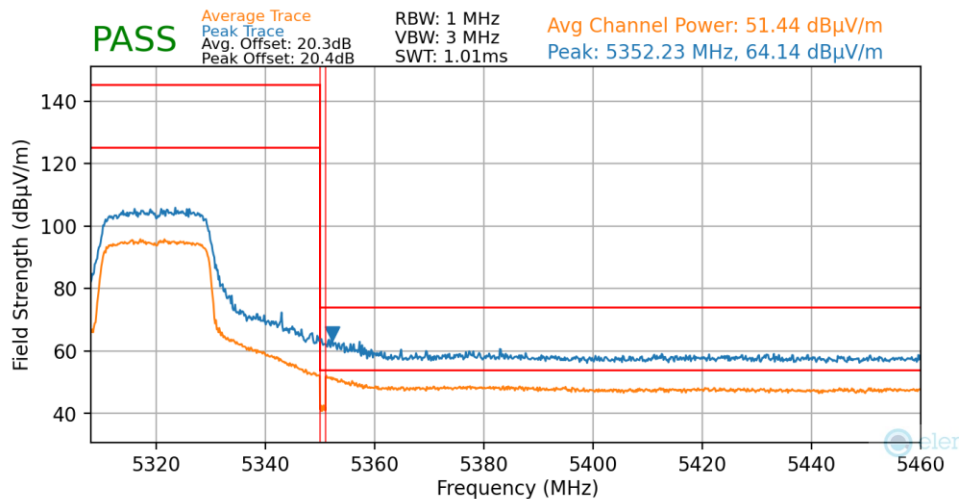
7.6.2 MIMO Radiated Band Edge Measurements (20MHz BW)

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



Plot 7-125. Radiated Lower Band Edge Plot MIMO (Average & Peak – UNII Band 1)

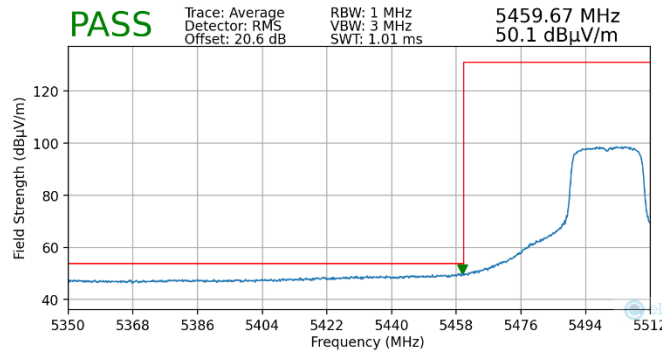
Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5320MHz
Channel:	64



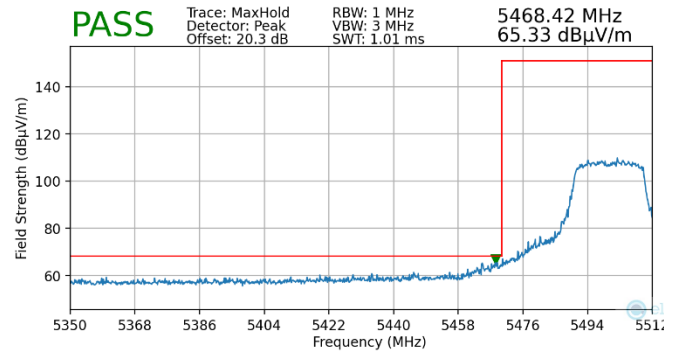
Plot 7-126. Radiated Upper Band Edge Plot MIMO (Average & Peak – UNII Band 2A)

FCC ID: A3LSMA576B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280091-16.A3L	Test Dates: 10/29/2025-12/18/2025	EUT Type: Portable Handset	Page 106 of 124

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

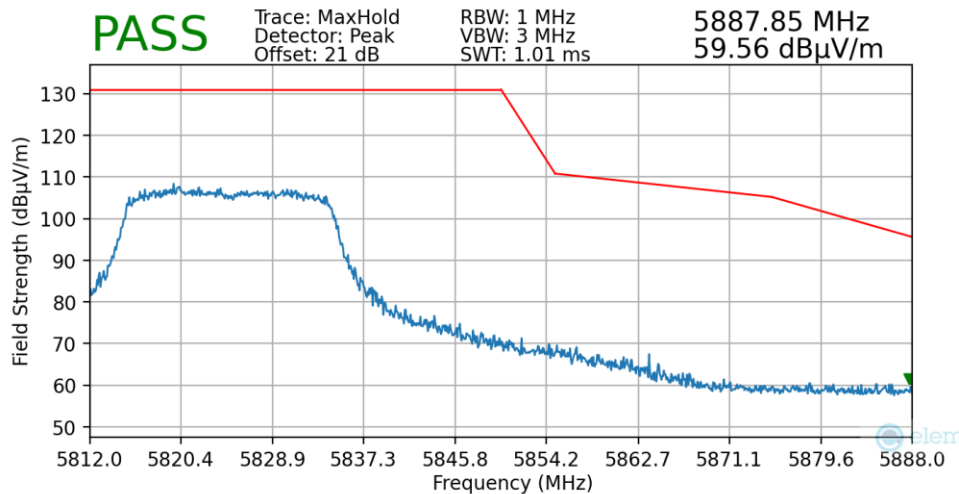


Plot 7-127. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C)



Plot 7-128. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C)

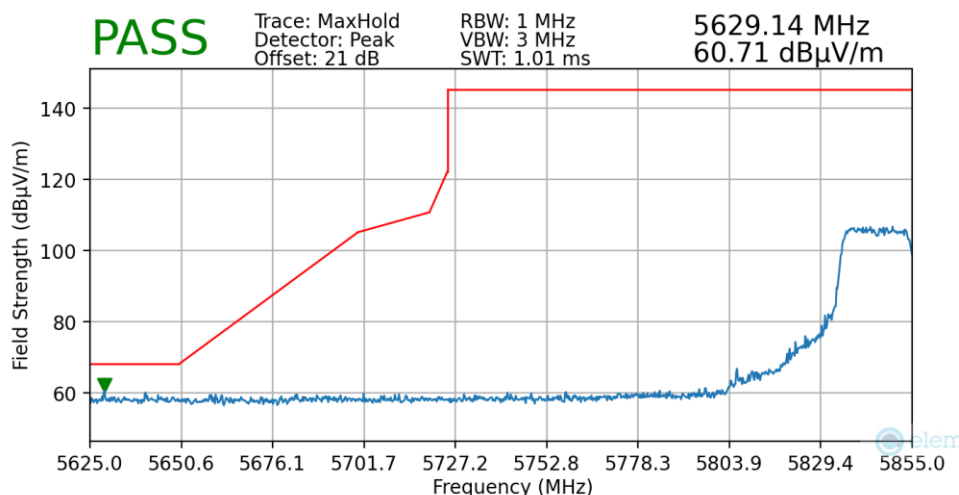
Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165



Plot 7-129. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3)

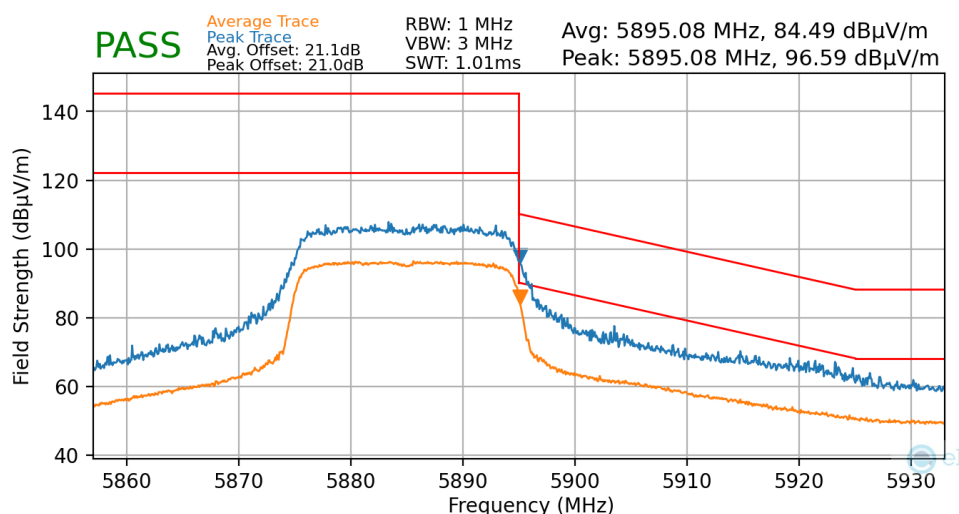
FCC ID: A3LSMA576B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280091-16.A3L	Test Dates: 10/29/2025-12/18/2025	EUT Type: Portable Handset	Page 107 of 124

Worst Case Mode: 802.11ax
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 5845MHz
Channel: 169



Plot 7-130. 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: 5885MHz
Channel: 177

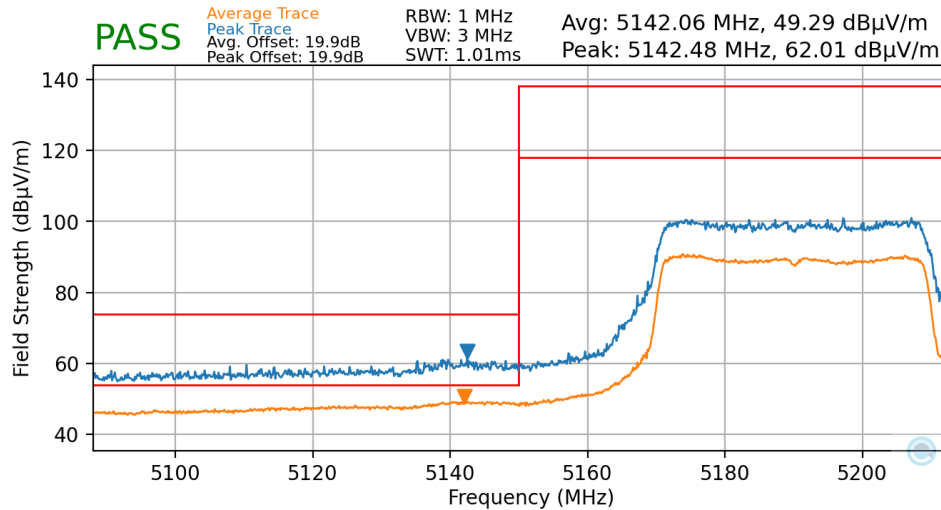


Plot 7-131. Radiated Upper Band Edge Plot MIMO (Average & Peak – UNII Band 4)

FCC ID: A3LSMA576B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280091-16.A3L	Test Dates: 10/29/2025-12/18/2025	EUT Type: Portable Handset	Page 108 of 124

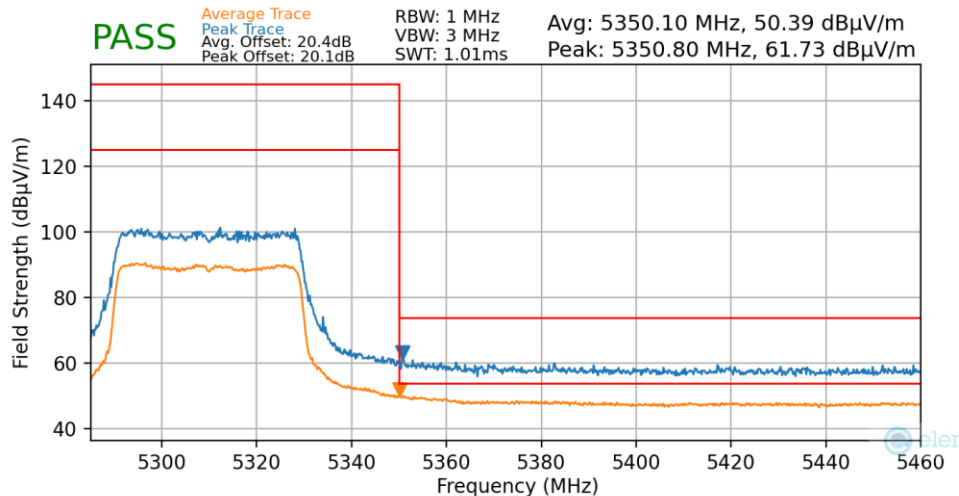
7.6.3 MIMO Radiated Band Edge Measurements (40MHz BW)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5190MHz
Channel:	38



Plot 7-132. Radiated Lower Band Edge Plot MIMO (Average & Peak – UNII Band 1)

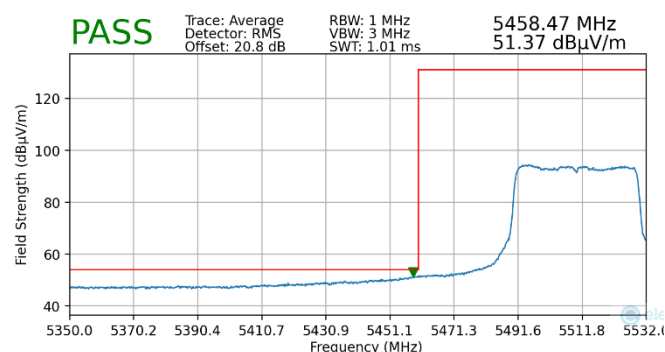
Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5310MHz
Channel:	62



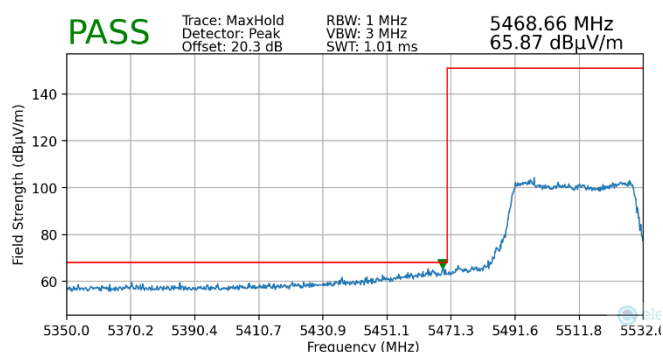
Plot 7-133. Radiated Upper Band Edge Plot MIMO (Average & Peak – UNII Band 2A)

FCC ID: A3LSMA576B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280091-16.A3L	Test Dates: 10/29/2025-12/18/2025	EUT Type: Portable Handset	Page 109 of 124

Worst Case Mode: 802.11ax
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 5510MHz
Channel: 102

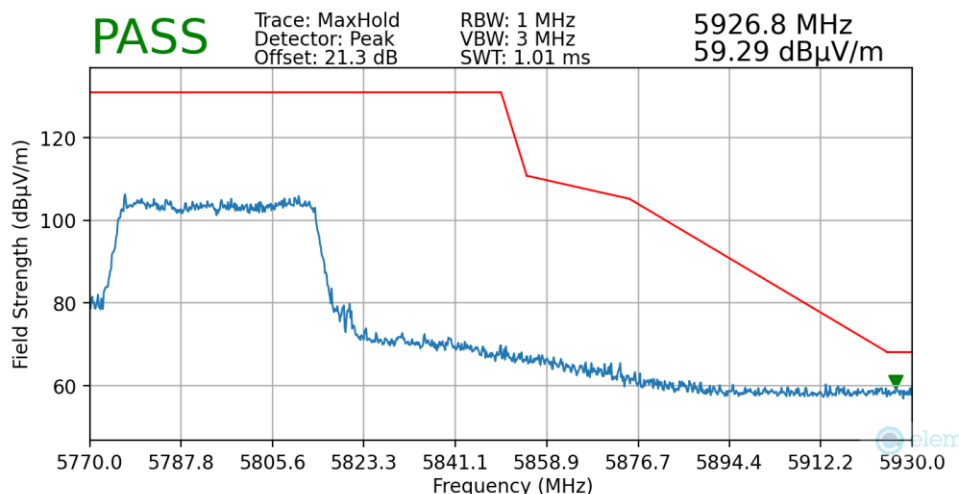


Plot 7-134. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C)



Plot 7-135. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C)

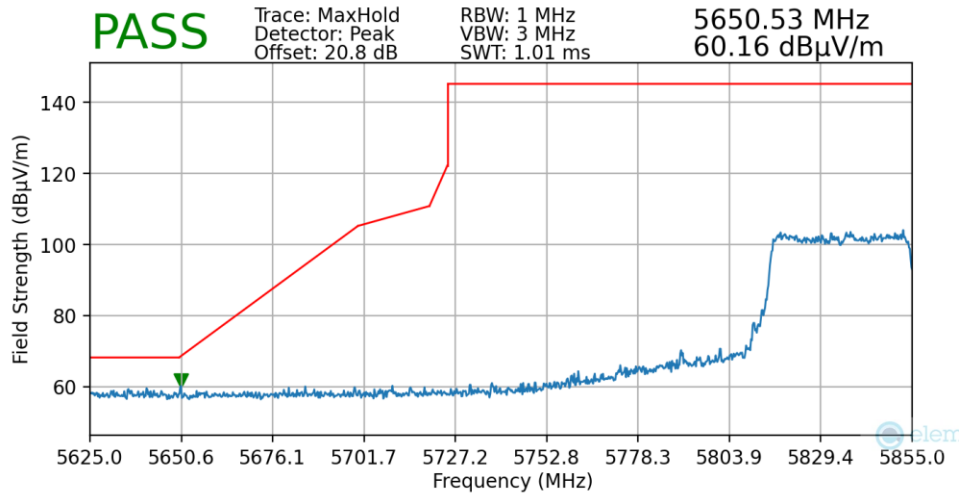
Worst Case Mode: 802.11ax
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 5795MHz
Channel: 159



Plot 7-136. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3)

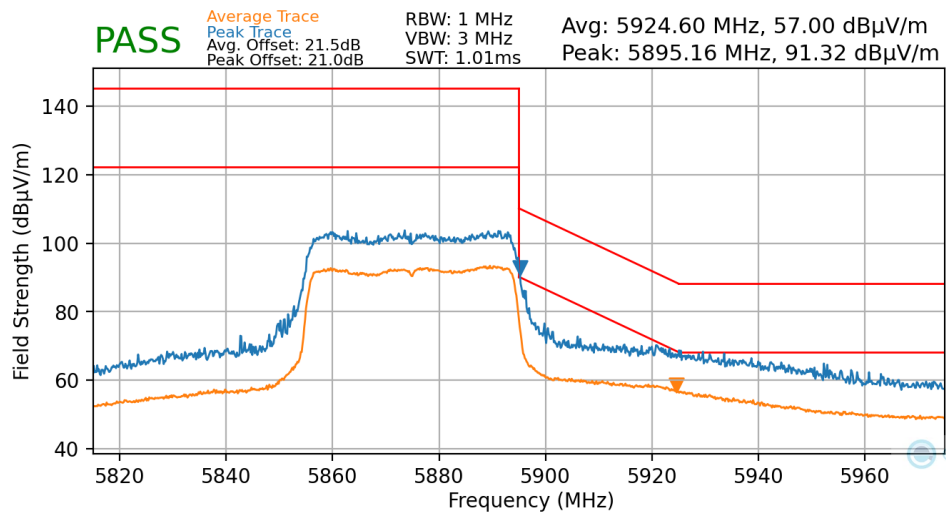
FCC ID: A3LSMA576B	MEASUREMENT REPORT		Approved by: Technical Manager
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Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5835MHz
 Channel: 167



Plot 7-137. 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

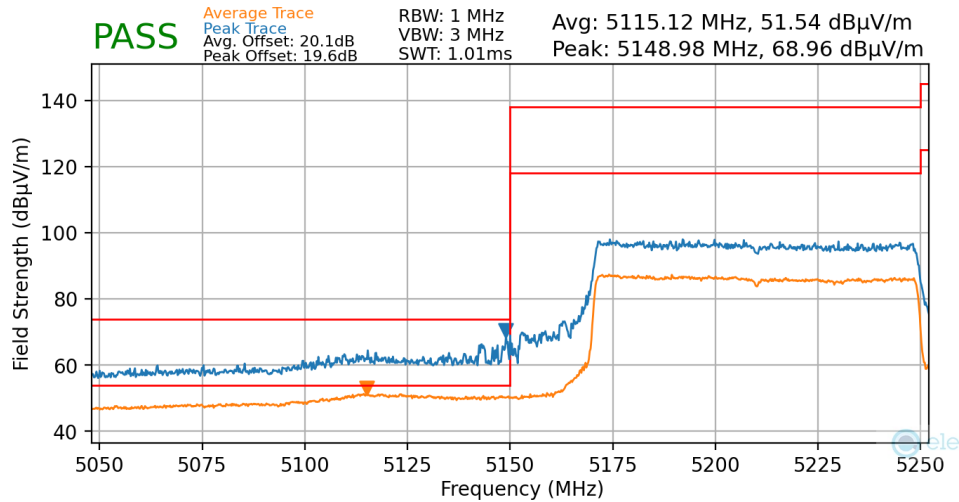


Plot 7-138. Radiated Upper Band Edge Plot MIMO (Average & Peak – UNII Band 4)

FCC ID: A3LSMA576B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280091-16.A3L	Test Dates: 10/29/2025-12/18/2025	EUT Type: Portable Handset	Page 111 of 124

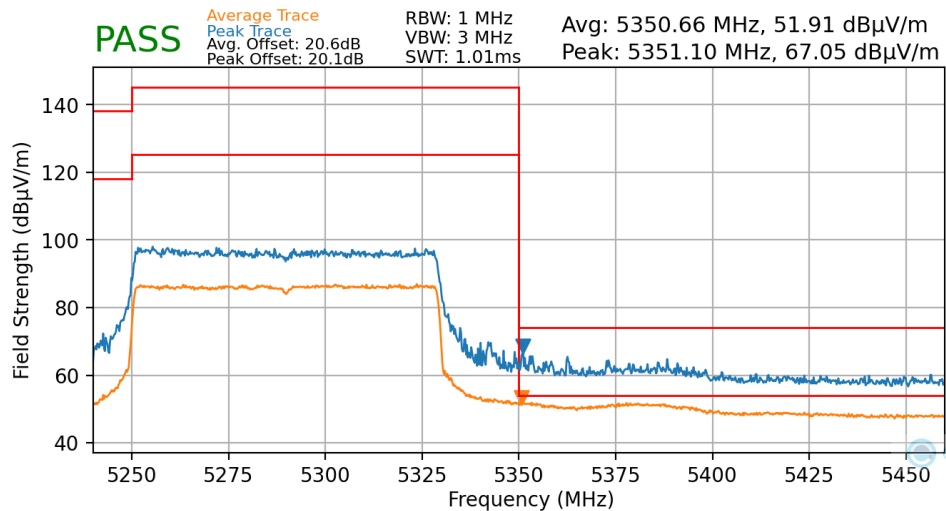
7.6.4 MIMO Radiated Band Edge Measurements (80MHz BW)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5210MHz
Channel:	42



Plot 7-139. Radiated Lower Band Edge Plot MIMO (Average & Peak – UNII Band 1)

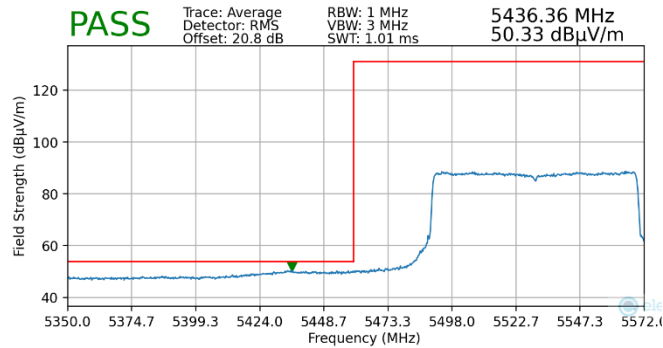
Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5290MHz
Channel:	58



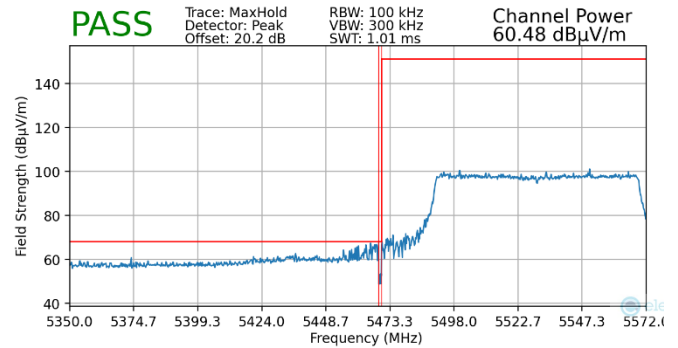
Plot 7-140. Radiated Upper Band Edge Plot MIMO (Average & Peak – UNII Band 2A)

FCC ID: A3LSMA576B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280091-16.A3L	Test Dates: 10/29/2025-12/18/2025	EUT Type: Portable Handset	Page 112 of 124

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

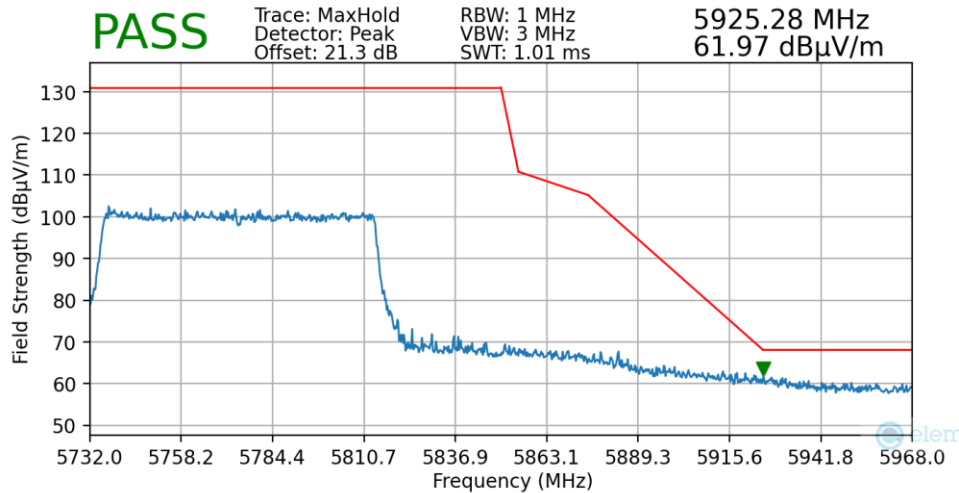


Plot 7-141. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C)



Plot 7-142. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C)

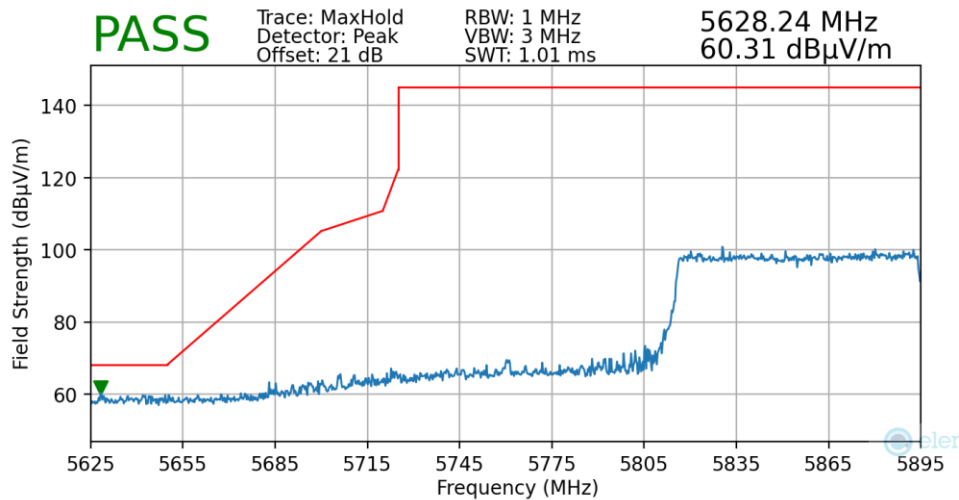
Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5775MHz
 Channel: 155



Plot 7-143. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3)

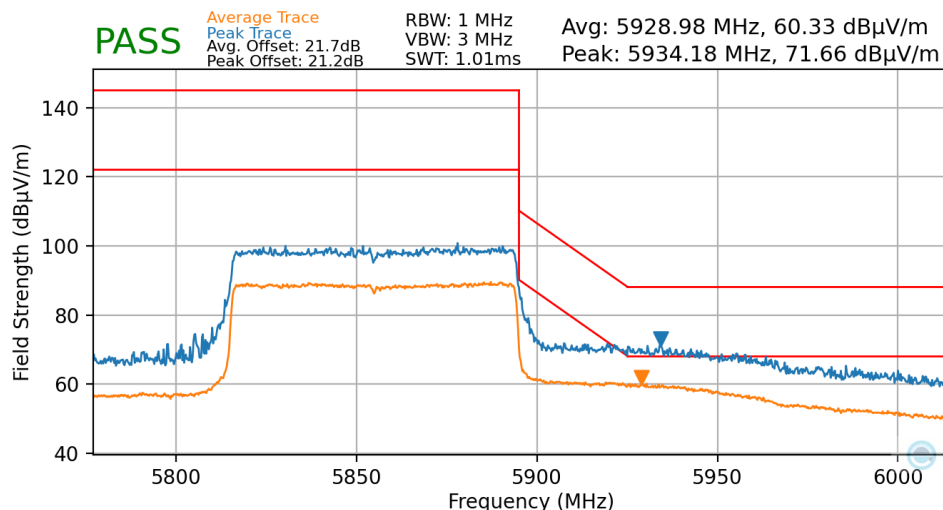
FCC ID: A3LSMA576B	MEASUREMENT REPORT		Approved by: Technical Manager
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Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5855MHz
 Channel: 171



Plot 7-144. 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 7-145. Radiated Upper Band Edge Plot MIMO (Average & Peak – UNII Band 4)

FCC ID: A3LSMA576B	MEASUREMENT REPORT		Approved by: Technical Manager
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7.7 Line-Conducted Test Data

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 FCC §15.207 and RSS-Gen (8.8).

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

Table 7-25. Conducted Limits

*Decreases with the logarithm of the frequency.

Test Procedures Used

ANSI C63.10:2020, 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.

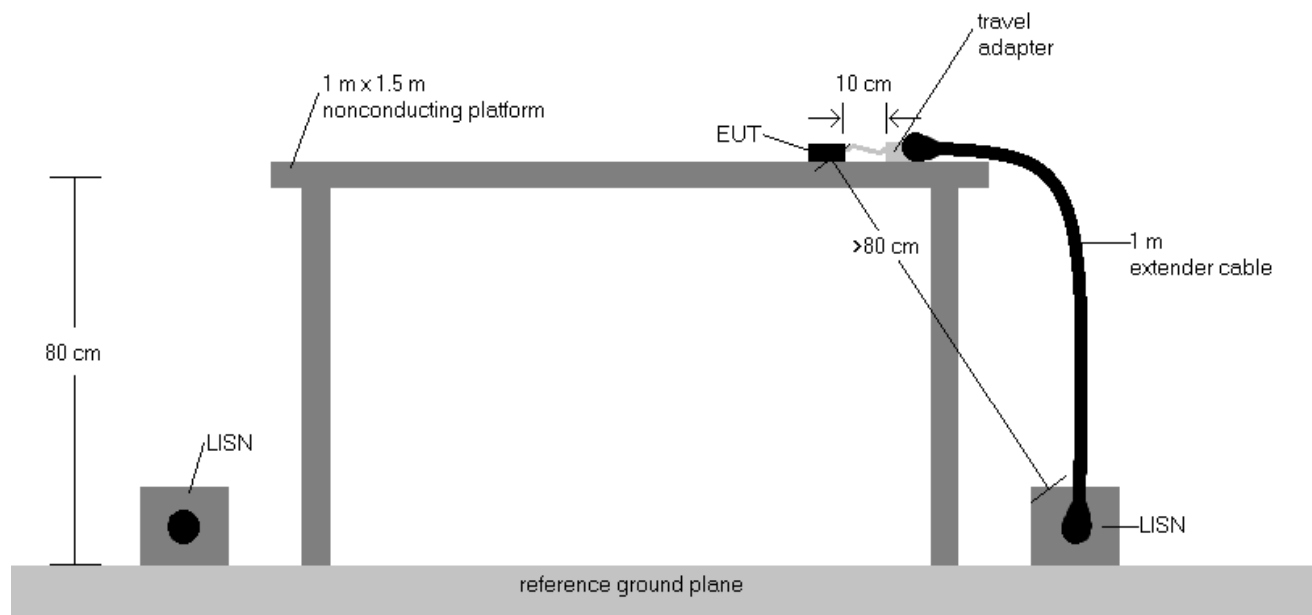
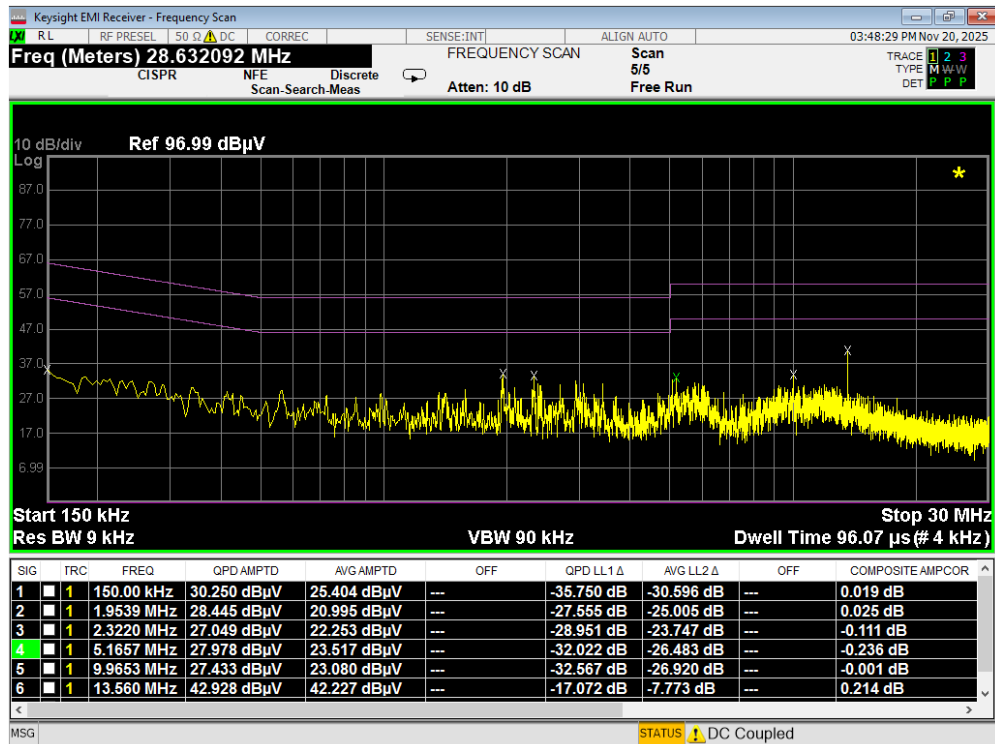


Figure 7-8. Test Instrument & Measurement Setup

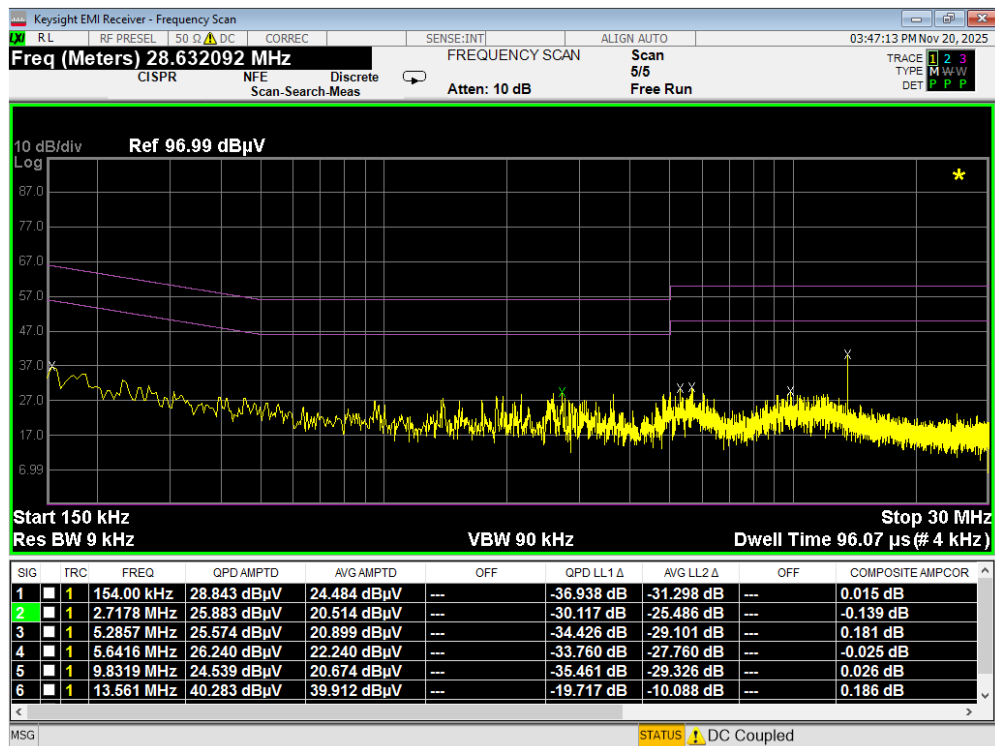
Test Notes

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 is 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.

FCC ID: A3LSMA576B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2510280091-16.A3L	Test Dates: 10/29/2025-12/18/2025	EUT Type: Portable Handset	Page 116 of 124

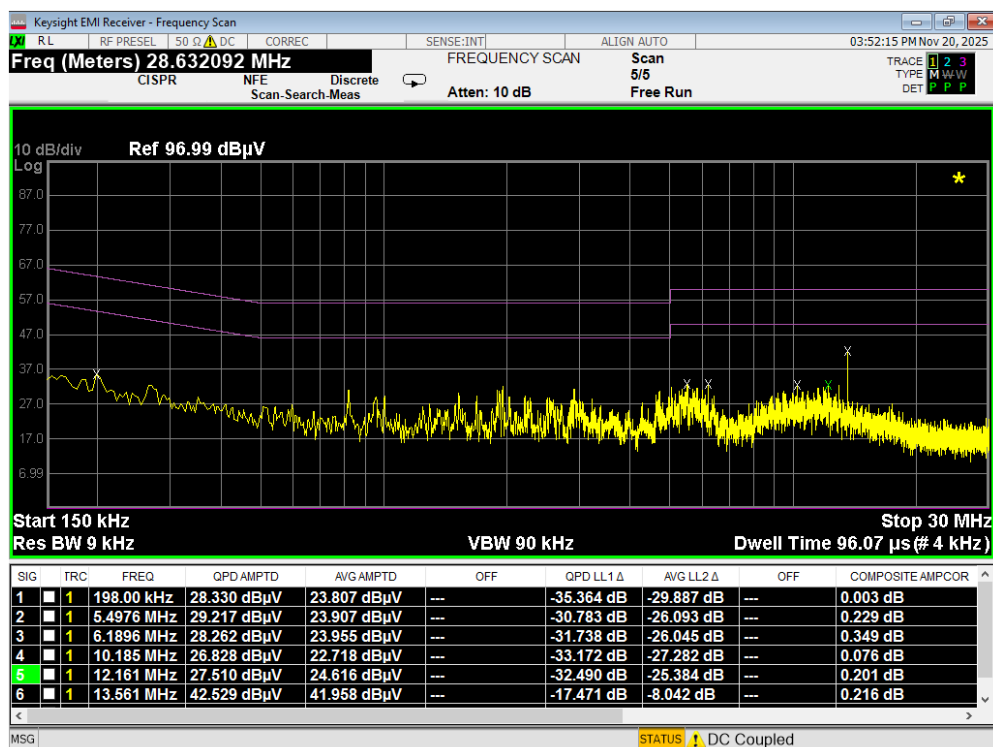


Plot 7-146. Line Conducted Plot with 802.11a UNII Band 1 (L1)

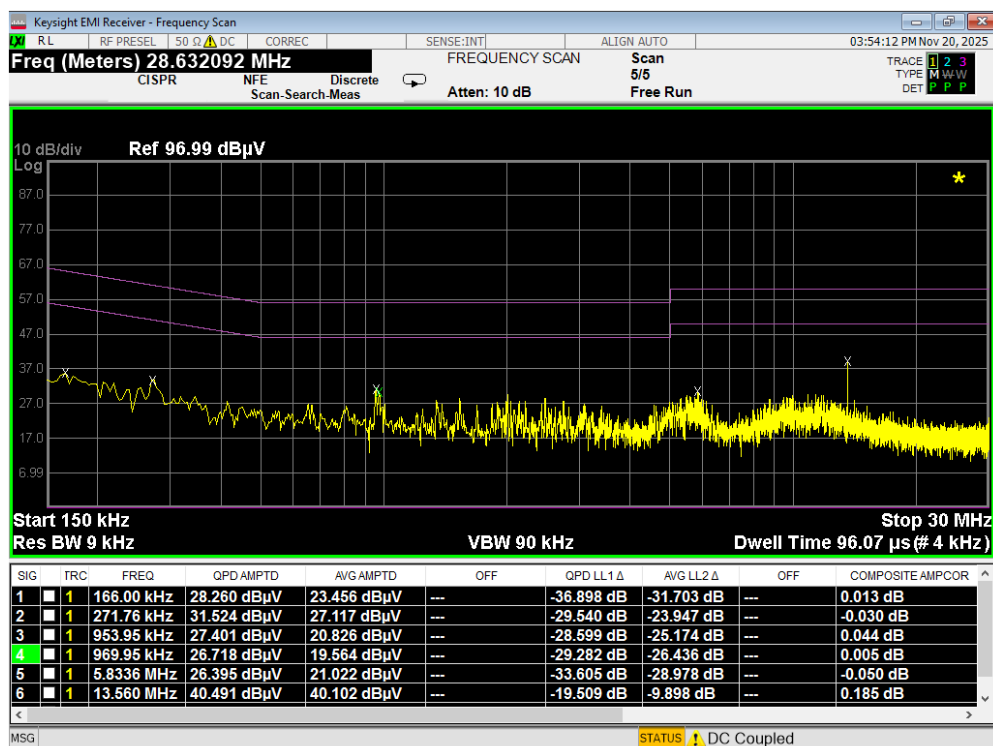


Plot 7-147. Line Conducted Plot with 802.11a UNII Band 1 (N)

FCC ID: A3LSMA576B	MEASUREMENT REPORT		Approved by: Technical Manager
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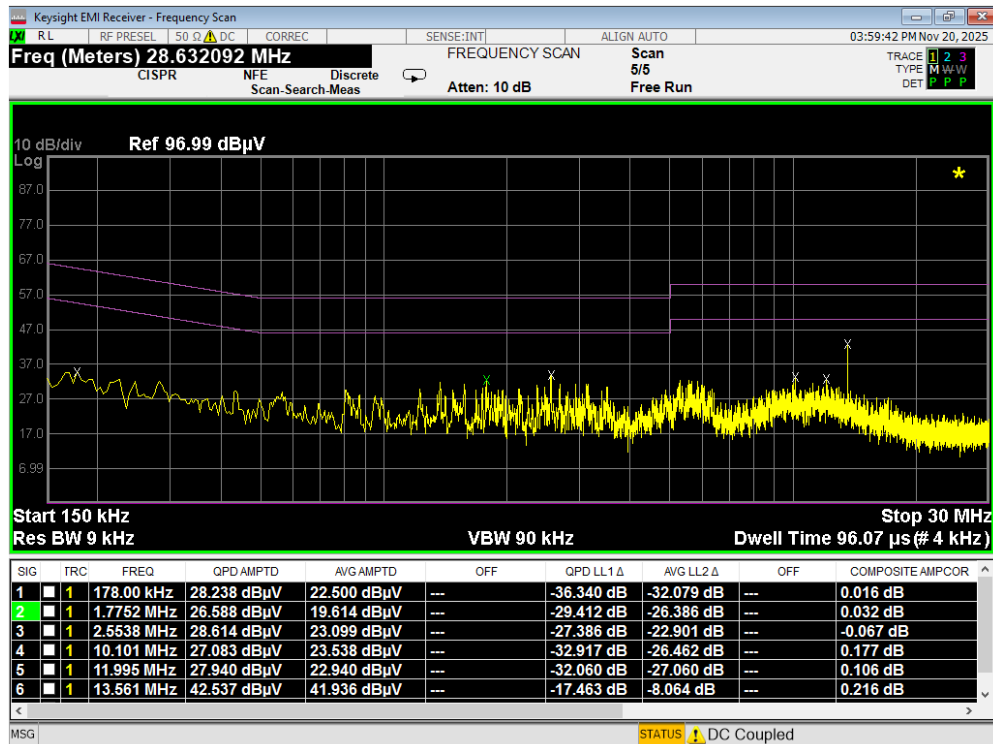


Plot 7-148. Line Conducted Plot with 802.11a UNII Band 2A (L1)

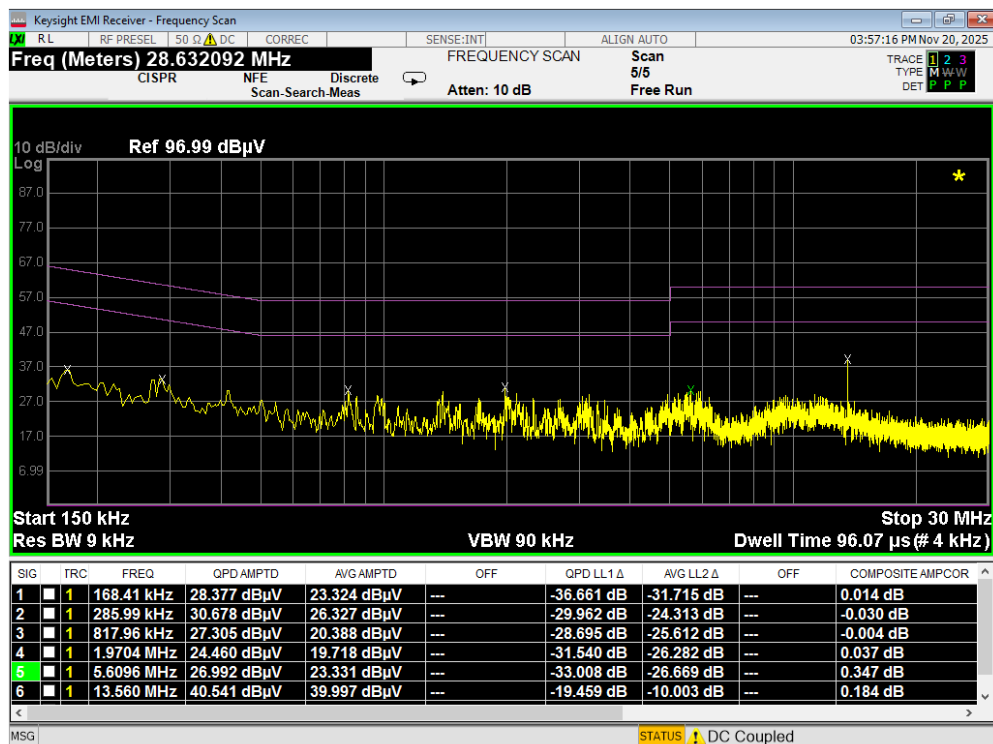


Plot 7-149. Line Conducted Plot with 802.11a UNII Band 2A (N)

FCC ID: A3LSMA576B	MEASUREMENT REPORT		Approved by: Technical Manager
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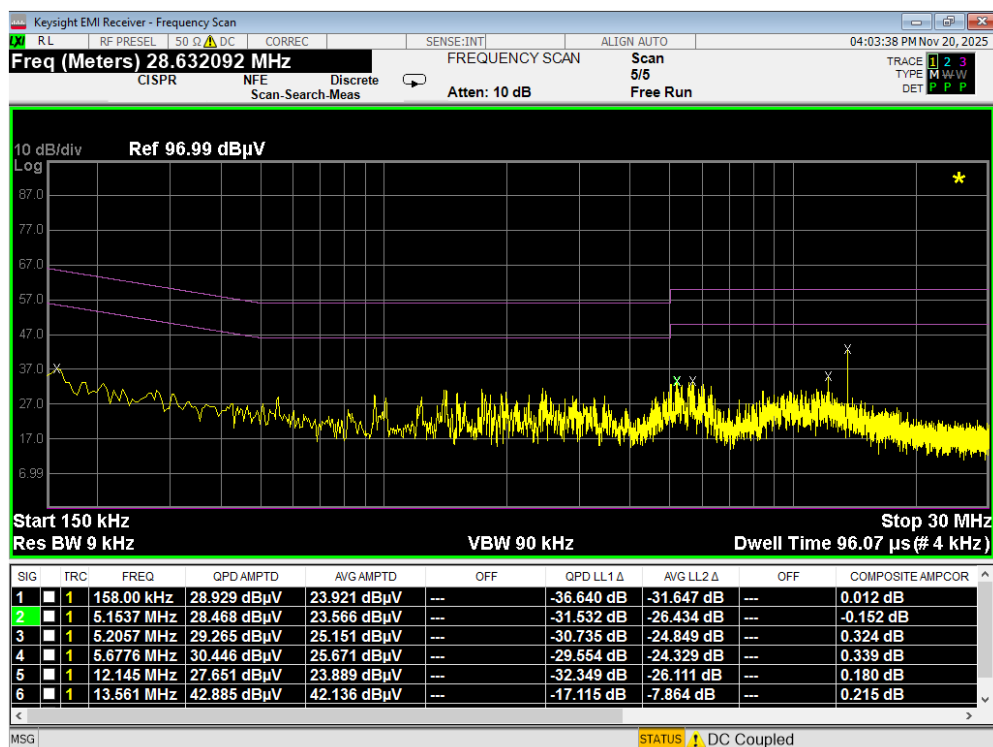


Plot 7-150. Line Conducted Plot with 802.11a UNII Band 2C (L1)

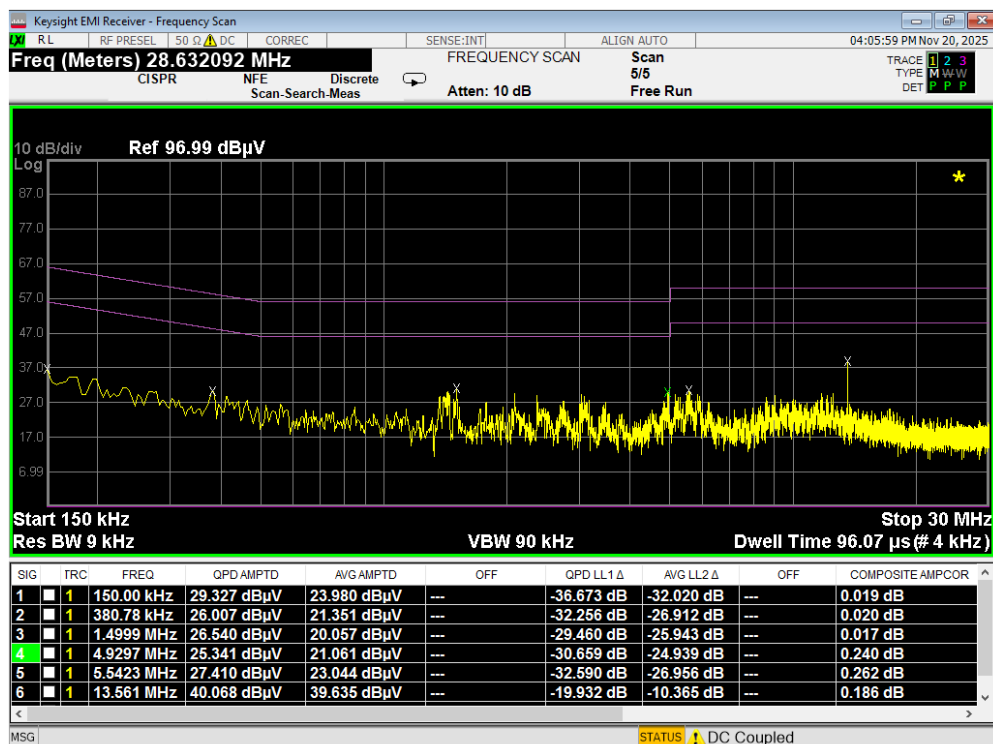


Plot 7-151. Line Conducted Plot with 802.11a UNII Band 2C (N)

FCC ID: A3LSMA576B	MEASUREMENT REPORT		Approved by: Technical Manager
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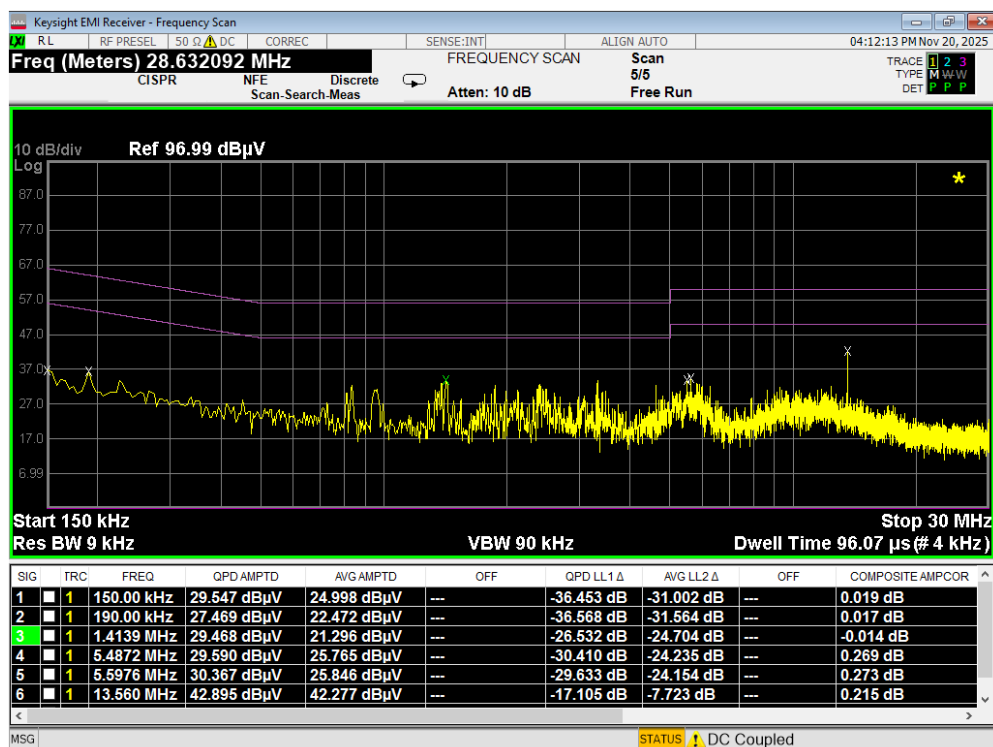


Plot 7-152. Line Conducted Plot with 802.11a UNII Band 3 (L1)

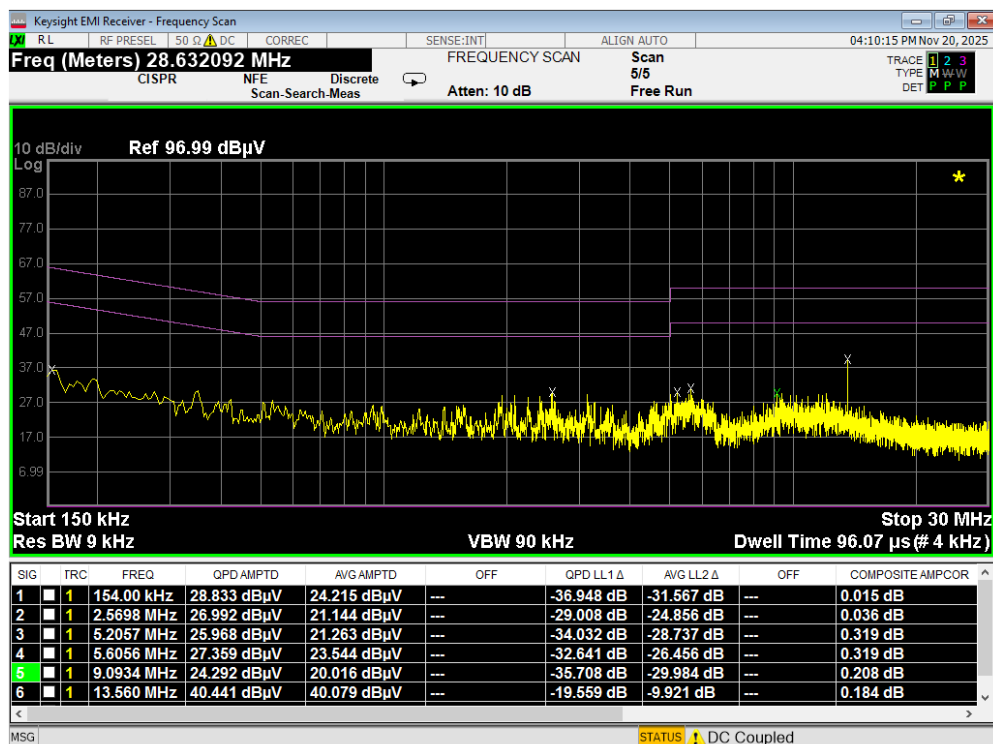


Plot 7-153. Line Conducted Plot with 802.11a UNII Band 3 (N)

FCC ID: A3LSMA576B	MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-154. Line Conducted Plot with 802.11a UNII Band 4 (L1)



Plot 7-155. Line Conducted Plot with 802.11a UNII Band 4 (N)

FCC ID: A3LSMA576B	MEASUREMENT REPORT		Approved by: Technical Manager
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8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Samsung Portable Handset FCC ID: A3LSMA576B** is in compliance with Part 15 Subpart E (15.407) of the FCC Rules. The data referenced from **FCC ID: A3LSMA576U** (Model SM-A576U1) included in this report have been reviewed and are deemed acceptable to support the compliance of **FCC ID: A3LSMA576B**.

FCC ID: A3LSMA576B	MEASUREMENT REPORT		Approved by: Technical Manager
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9.0 APPENDIX A – DATA REFERENCING SPOT-CHECKS

Overview

The spot-check data presented in this section was measured on the variant model following the guidance of the FCC's Data Referencing guidance in KDB 484596 D01 v03. Each spot-check test on the EUT was performed using the same procedure and setting that were used to perform the test on the corresponding reference device. For the worst-case RSE data, the measurement is determined by an actual emission and not by noise floor.

All test cases were performed to verify the variant EUT is still in compliance with the spot-checked results to the reference device and was performed using the guidance of ANSI C63.10:2020.

Notes

Each spot check test on the EUT was performed using the same procedure and setting that were used to perform the test on the corresponding reference device.

Conducted Spot-Checks – SM-A576B/DS

5GHz WIFI (20MHz 802.11ax MIMO)						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]								
			ANT1	ANT2	MIMO						
UNII-1	5200	40	13.77	16.14	18.13	23.98	-5.85	-3.49	14.64	30.00	-15.36
UNII-2A	5280	56	13.31	15.98	17.86	23.98	-6.12	-3.86	14.00	30.00	-16.00
UNII-2C	5600	120	13.75	16.25	18.19	23.98	-5.79	-2.63	15.56	30.00	-14.44
UNII-3	5785	157	14.17	15.63	17.97	30.00	-12.03	-2.65	15.32	36.00	-20.68
UNII-4	5865	173	13.90	15.50	17.78	-	-	-2.88	14.90	30.00	-15.10

Table 9-1. Conducted Output Power Measurements (Spot-check)

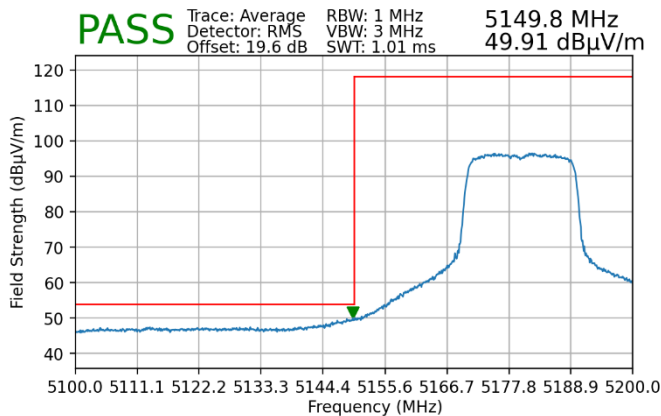
FCC ID: A3LSMA576B	MEASUREMENT REPORT		Approved by: Technical Manager
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Radiated Spot-Checks – SM-A576B/DS

Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	Restricted	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]
802.11a	MIMO	2A	64	5320	*	10640.00	Average	V	118	335	-80.30	19.88	0.00	46.58	53.98	-7.40

Table 9-2. RSE Measurements (Spot-check)

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



Plot 9-1. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1)

Results

FCC Rules	Test Item	Test Case	Units	Limit	Reference Model: SM-A576U1	Variant Model: SM-A576B/DS	Deviation (dB)	Max Deviation (dB)	Pass/Fail
2.1046, 15.407(a)(8)	Conducted Output Power	Mid Channel Each UNII Band - 802.11ax 20MHz	dBm	N/A	18.11	18.13	0.02	1	PASS
					17.96	17.86	-0.10	1	PASS
					18.69	18.19	-0.50	1	PASS
					18.35	17.97	-0.38	1	PASS
					18.00	17.78	-0.22	1	PASS
15.209, 15.407(b)(1), 15.407(b)(2), 15.407(b)(3), 15.407(b)(4)	Radiated Spurious Emissions	802.11a MIMO Ch.64 - 10640MHz - Average	dBμV/m	68.20	44.85	46.58	1.73	3	PASS
15.209	Radiated Band Edge Emissions	802.11ax MIMO Ch.36 - Average	dBμV/m	53.98	51.81	49.91	-1.90	3	PASS

Table 9-3. Summary of Spot-checks

- END OF TEST REPORT -

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