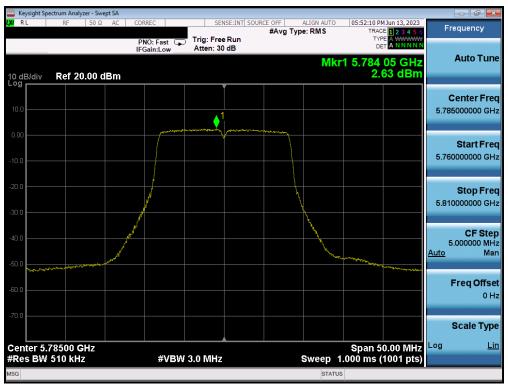


Plot 7-107. Power Spectral Density Plot MIMO ANT1 (160MHz BW 802.11ax (UNII Band 2C) - Ch. 114)



Plot 7-108. Power Spectral Density Plot MIMO ANT1 (802.11a (UNII Band 3) - Ch. 157)

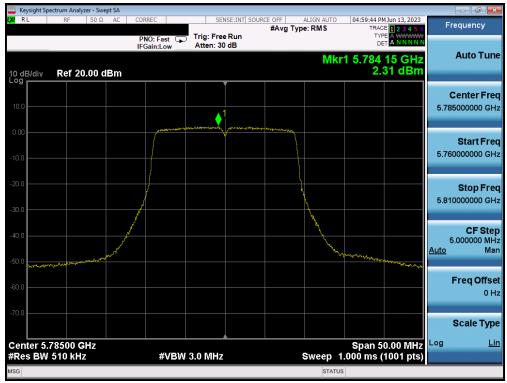
FCC ID: A3LSMS711U	MEASUREMENT REPORT		Approved by: Technical Manager
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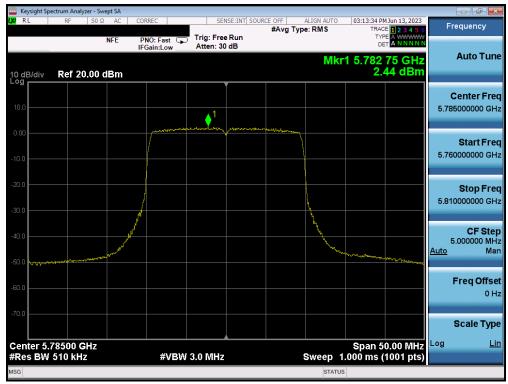
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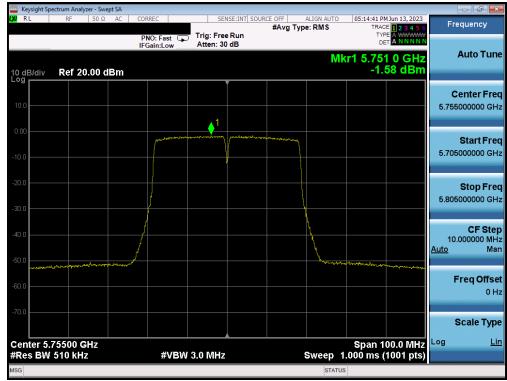
Plot 7-109. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 3) - Ch. 157)



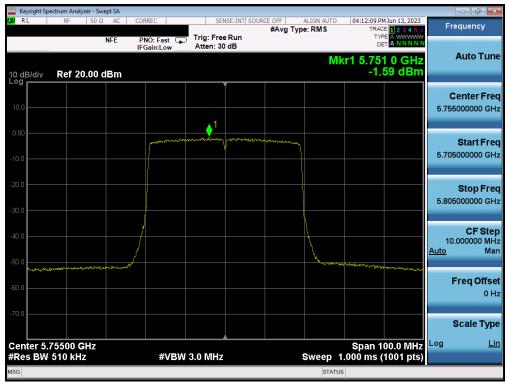
Plot 7-110. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 3) - Ch. 157)

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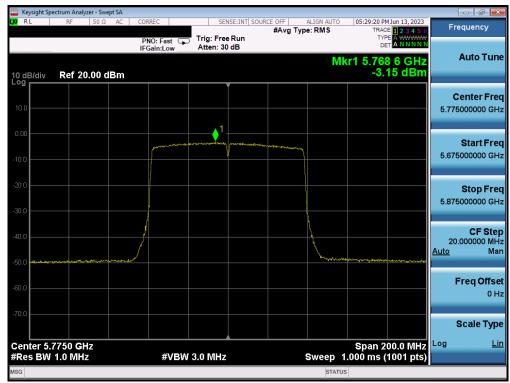
Plot 7-111. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11n (UNII Band 3) - Ch. 151)



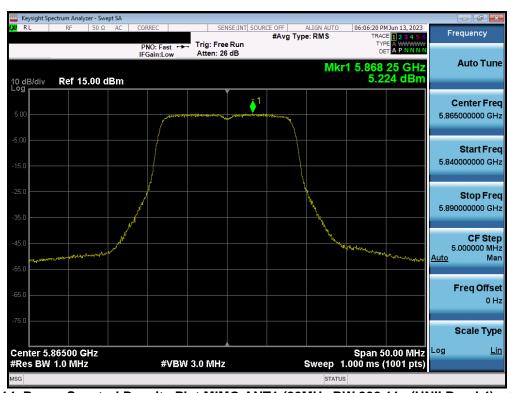
Plot 7-112. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax (UNII Band 3) - Ch. 151)

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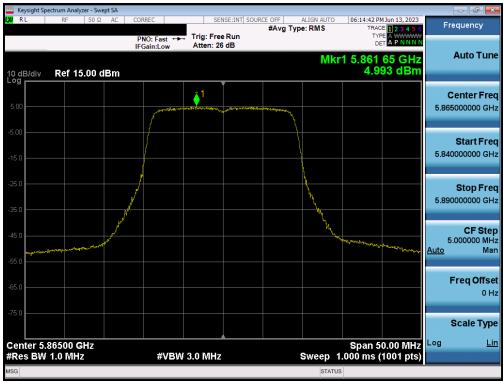
Plot 7-113. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ac (UNII Band 3) - Ch. 155)



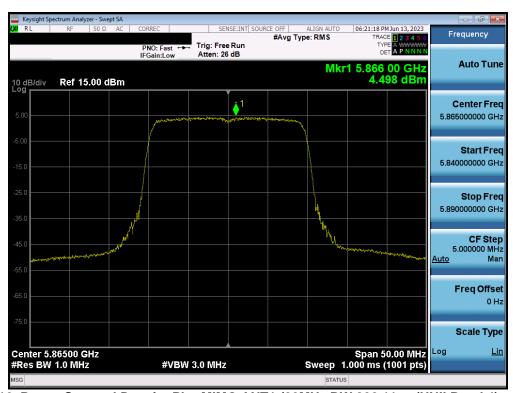
Plot 7-114. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11a (UNII Band 4) - Ch. 173)

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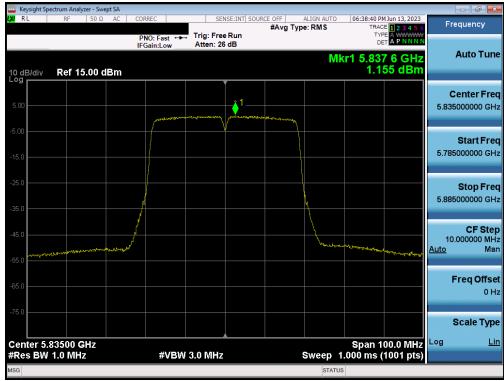
Plot 7-115. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 4) - Ch. 173)



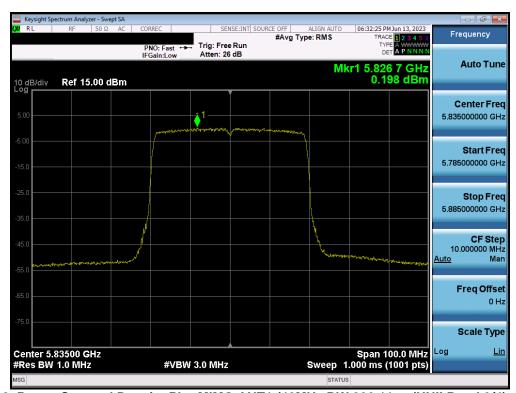
Plot 7-116. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 4) - Ch. 173)

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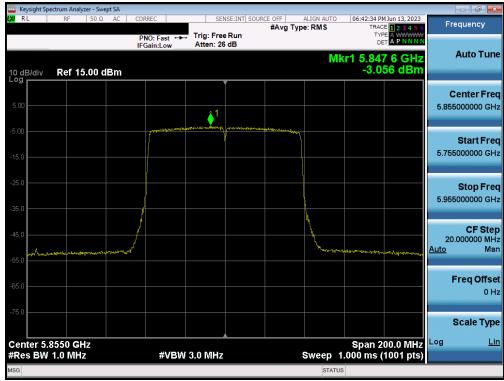
Plot 7-117. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11n (UNII Band 3/4) - Ch. 167)



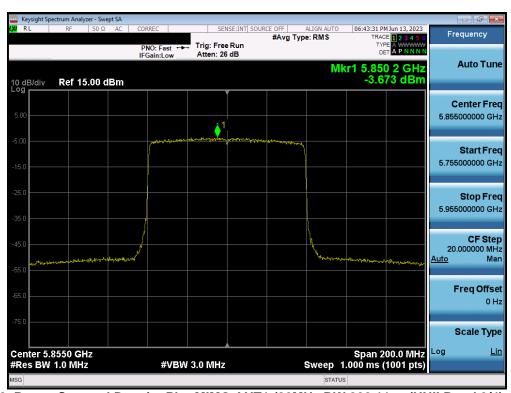
Plot 7-118. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax (UNII Band 3/4) - Ch. 167)

FCC ID: A3LSMS711U	MEASUREMENT REPORT		Approved by: Technical Manager
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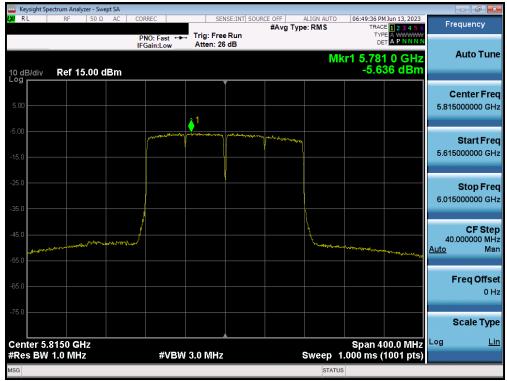
Plot 7-119. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ac (UNII Band 3/4) - Ch. 171)



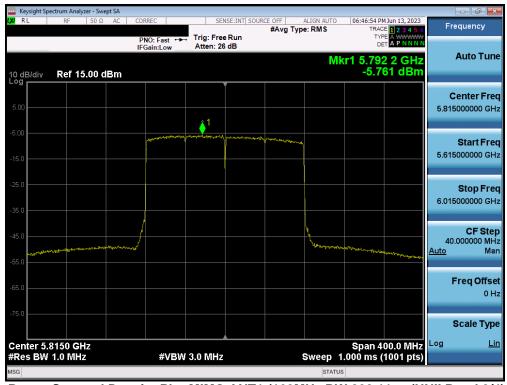
Plot 7-120. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax (UNII Band 3/4) - Ch. 171)

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Plot 7-121. Power Spectral Density Plot MIMO ANT1 (160MHz BW 802.11ac (UNII Band 3/4) - Ch. 163)

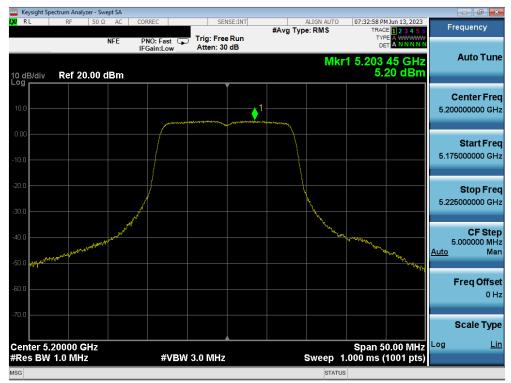


Plot 7-122. Power Spectral Density Plot MIMO ANT1 (160MHz BW 802.11ax (UNII Band 3/4) - Ch. 163)

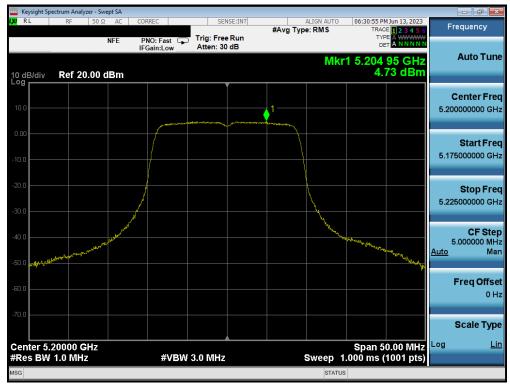
FCC ID: A3LSMS711U	MEASUREMENT REPORT		Approved by: Technical Manager
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7.5.3 MIMO Antenna-2 Power Spectral Density Measurements



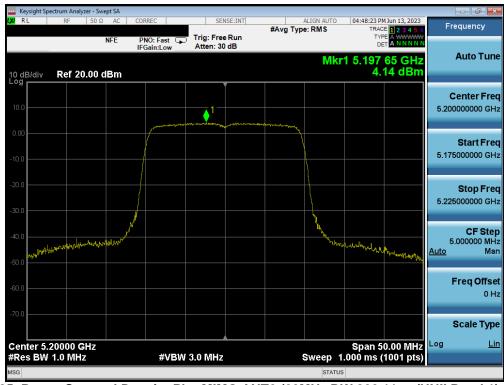
Plot 7-123. Power Spectral Density Plot MIMO ANT2 (802.11a (UNII Band 1) - Ch. 40)



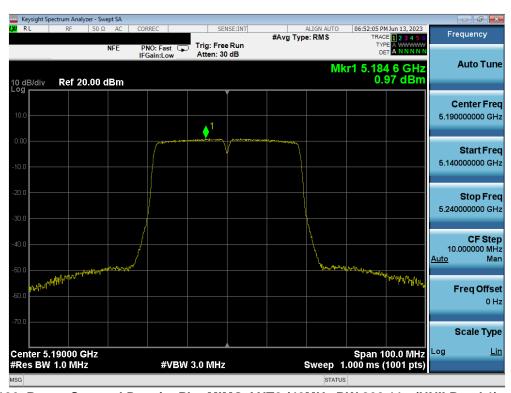
Plot 7-124. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 1) - Ch. 40)

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Plot 7-125. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 1) - Ch. 40)



Plot 7-126. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 1) - Ch. 38)

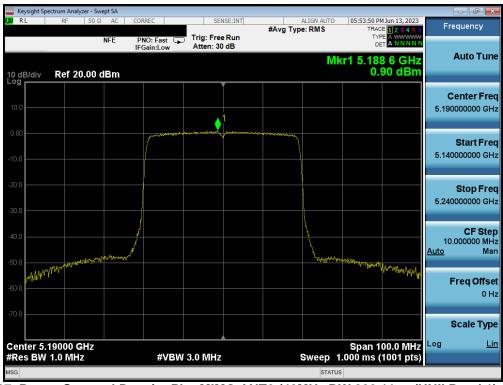
FCC ID: A3LSMS711U	MEASUREMENT REPORT		Approved by: Technical Manager
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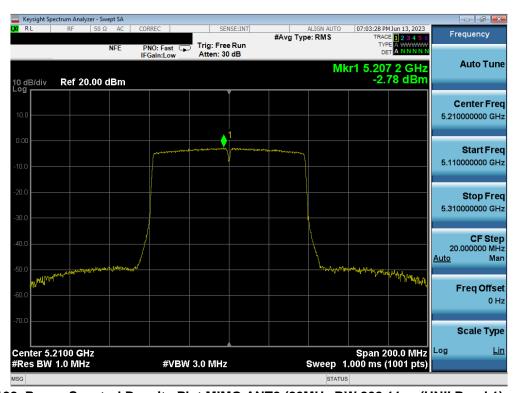
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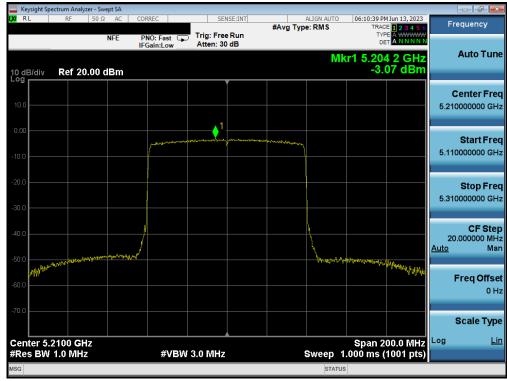
Plot 7-127. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 1) - Ch. 38)



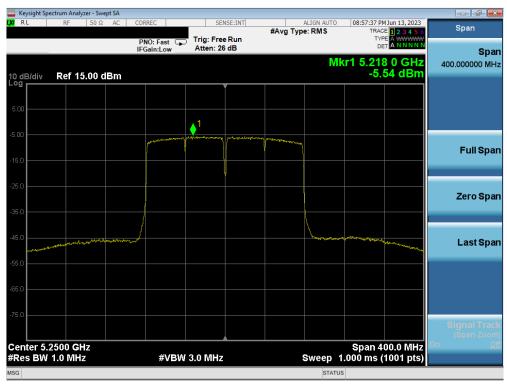
Plot 7-128. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ac (UNII Band 1) - Ch. 42)

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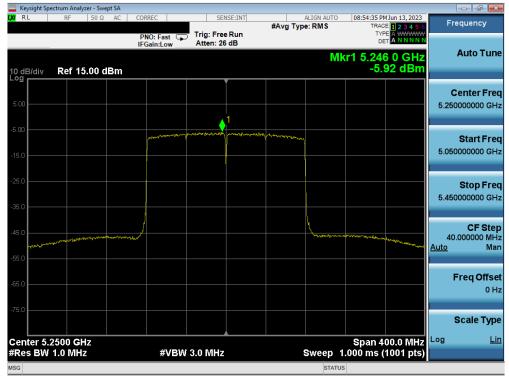
Plot 7-129. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax (UNII Band 1) - Ch. 42)



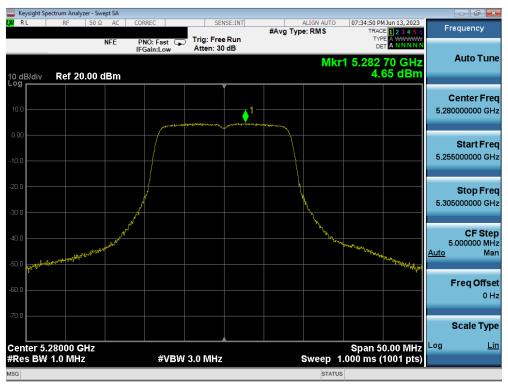
Plot 7-130. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802.11ac (UNII Band 1/2A) - Ch. 50)

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Plot 7-131. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802.11ax (UNII Band 1/2A) - Ch. 50)



Plot 7-132. Power Spectral Density Plot MIMO ANT2 (802.11a (UNII Band 2A) - Ch. 56)

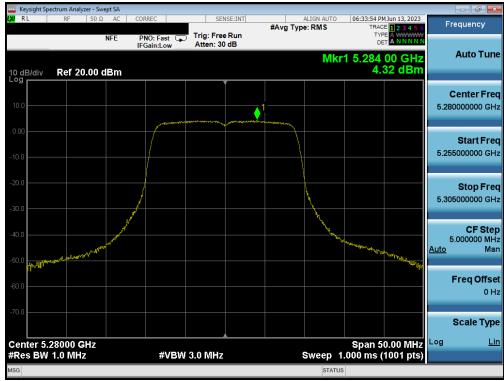
FCC ID: A3LSMS711U	MEASUREMENT REPORT		Approved by: Technical Manager
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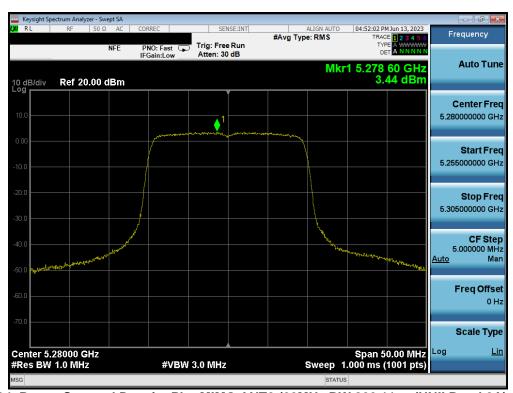
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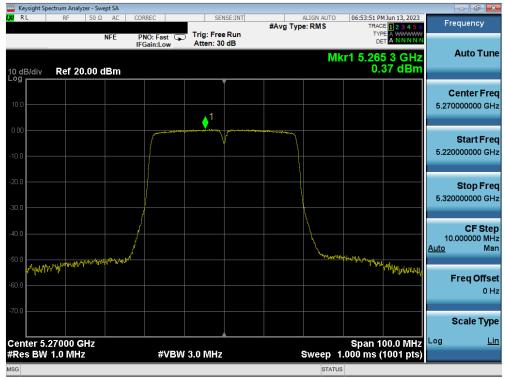
Plot 7-133. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 2A) - Ch. 56)



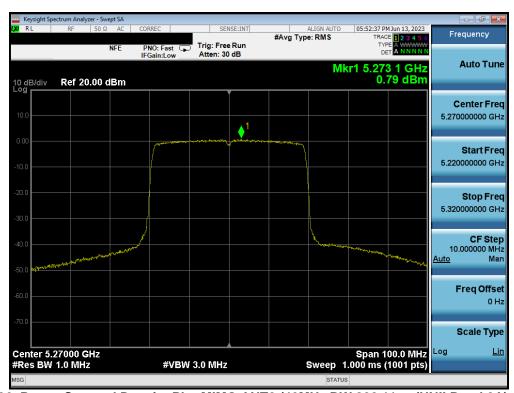
Plot 7-134. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 2A) - Ch. 56)

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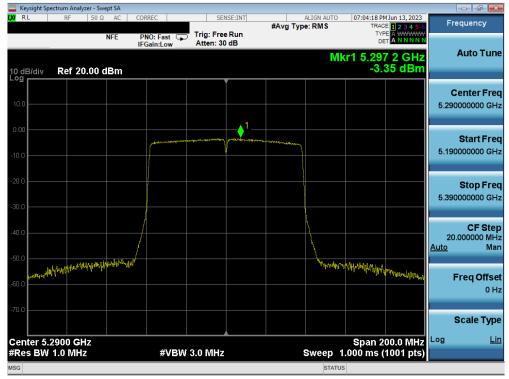
Plot 7-135. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 2A) - Ch. 54)



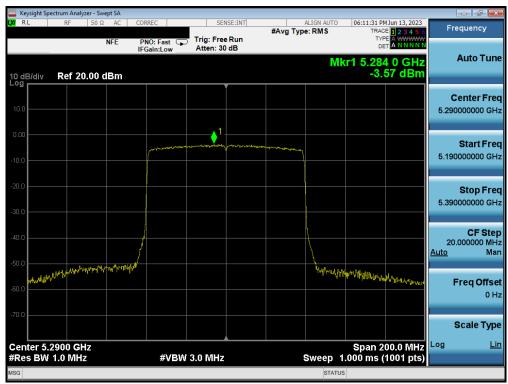
Plot 7-136. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 2A) - Ch. 54)

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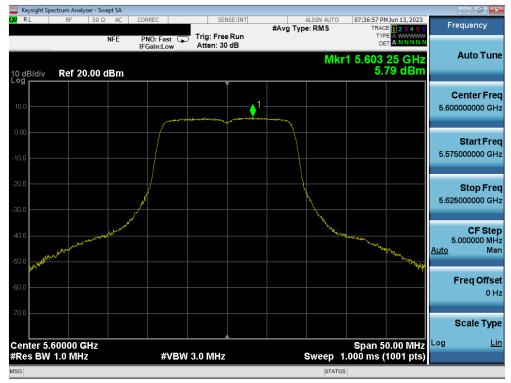
Plot 7-137. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ac (UNII Band 2A) - Ch. 58)



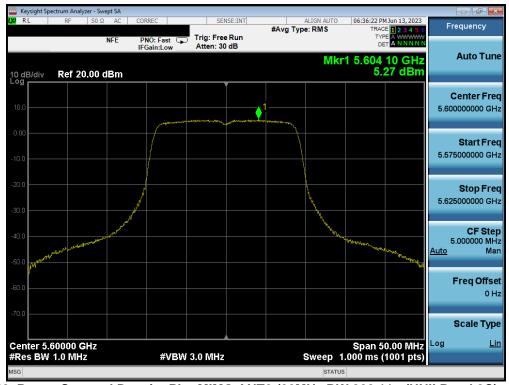
Plot 7-138. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax (UNII Band 2A) - Ch. 58)

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Plot 7-139. Power Spectral Density Plot MIMO ANT2 (802.11a (UNII Band 2C) - Ch. 120)



Plot 7-140. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 2C) - Ch. 120)

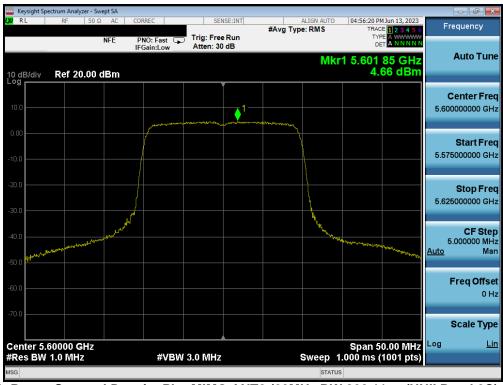
FCC ID: A3LSMS711U	MEASUREMENT REPORT		Approved by: Technical Manager
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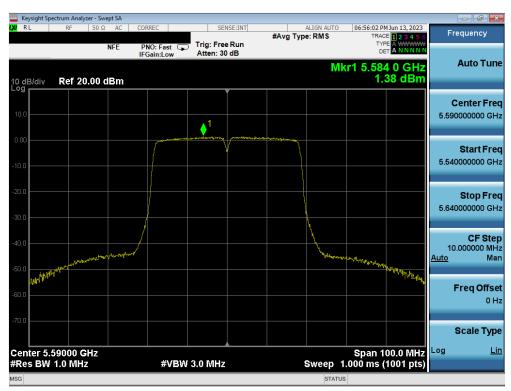
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Plot 7-141. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 2C) - Ch. 120)

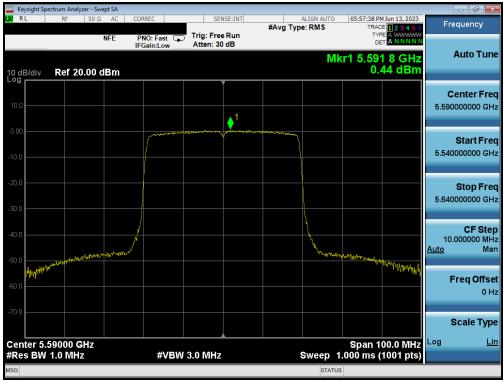


Plot 7-142. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 2C) - Ch. 118)

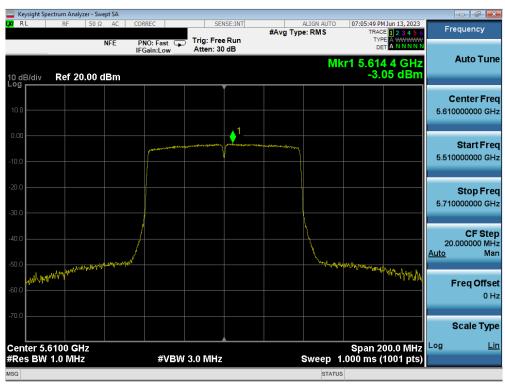
FCC ID: A3LSMS711U	MEASUREMENT REPORT		Approved by: Technical Manager
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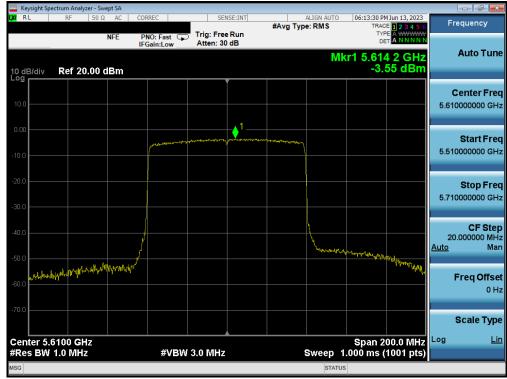
Plot 7-143. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 2C) - Ch. 118)



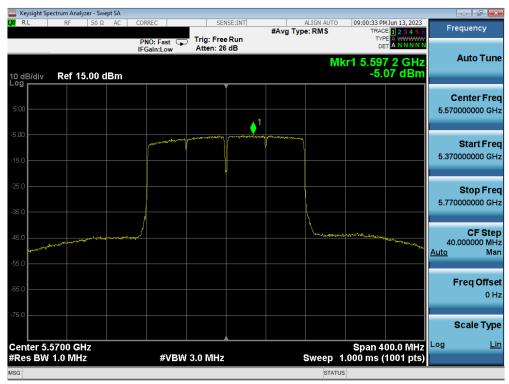
Plot 7-144. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ac (UNII Band 2C) - Ch. 122)

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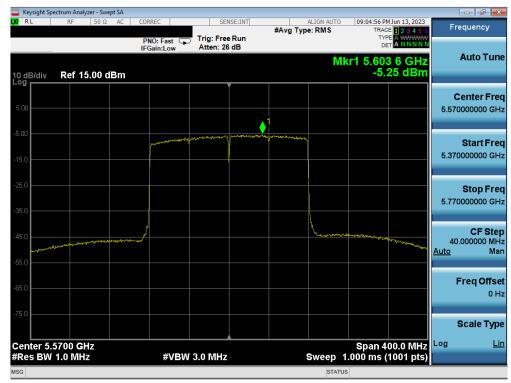
Plot 7-145. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax (UNII Band 2C) - Ch. 122)



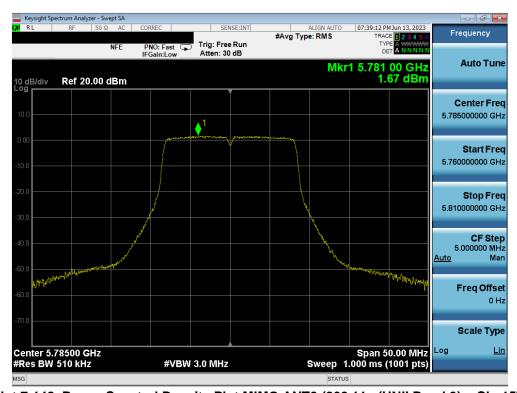
Plot 7-146. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802.11ac (UNII Band 2C) - Ch. 114)

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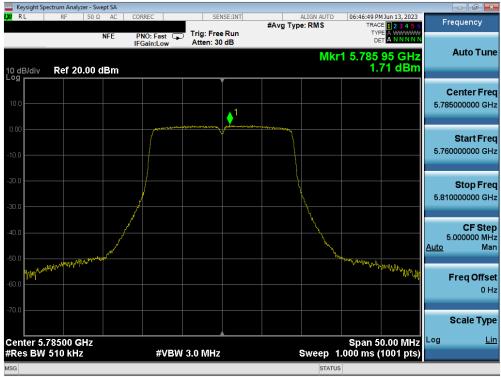
Plot 7-147. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802.11ax (UNII Band 2C) - Ch. 114)



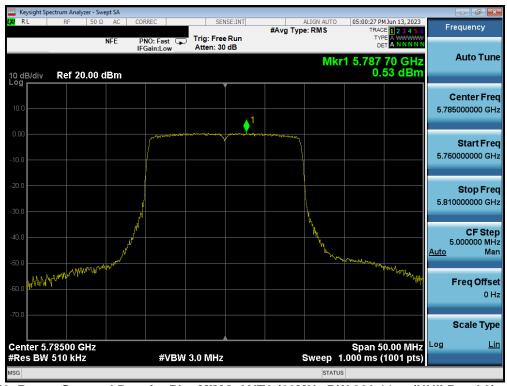
Plot 7-148. Power Spectral Density Plot MIMO ANT2 (802.11a (UNII Band 3) - Ch. 157)

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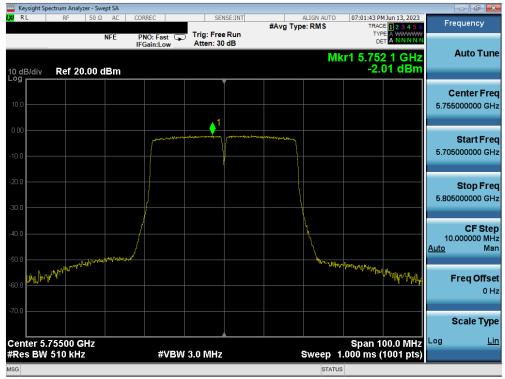
Plot 7-149. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 3) - Ch. 157)



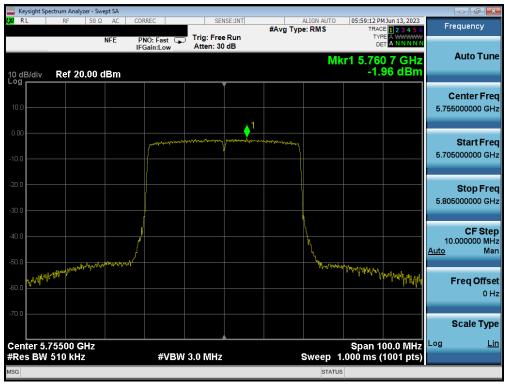
Plot 7-150. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 3) - Ch. 157)

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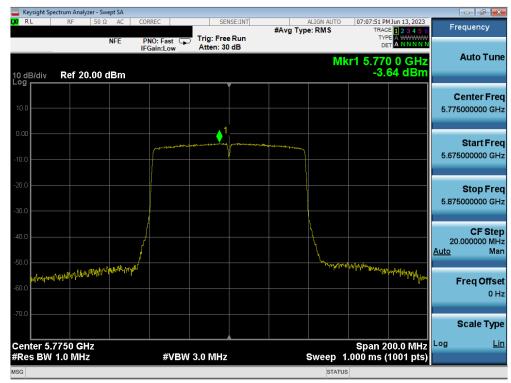
Plot 7-151. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 3) - Ch. 151)



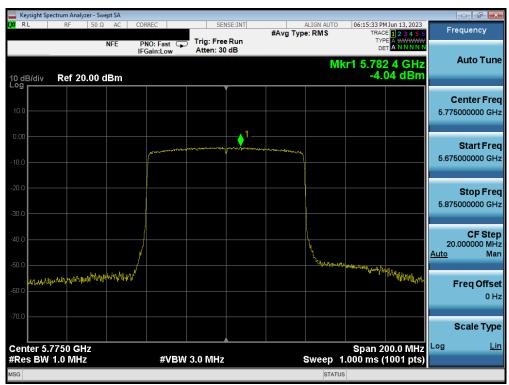
Plot 7-152. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 3) - Ch. 151)

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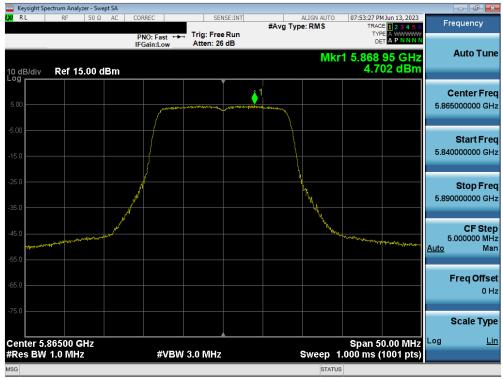
Plot 7-153. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ac (UNII Band 3) - Ch. 155)



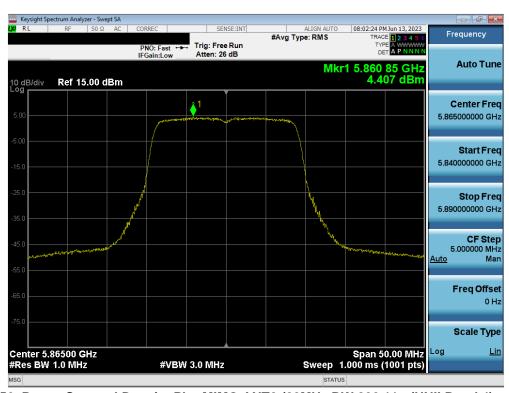
Plot 7-154. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax (UNII Band 3) - Ch. 155)

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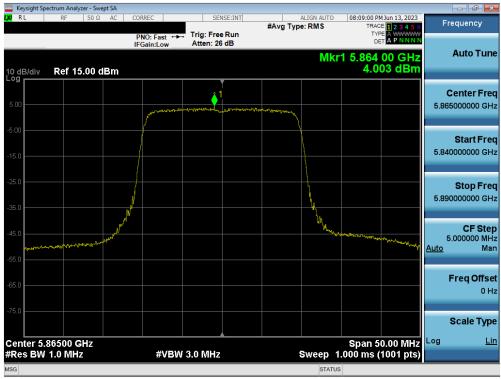
Plot 7-155. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11a (UNII Band 4) - Ch. 173)



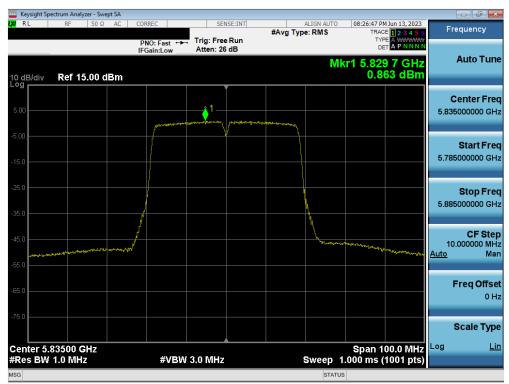
Plot 7-156. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 4) - Ch. 173)

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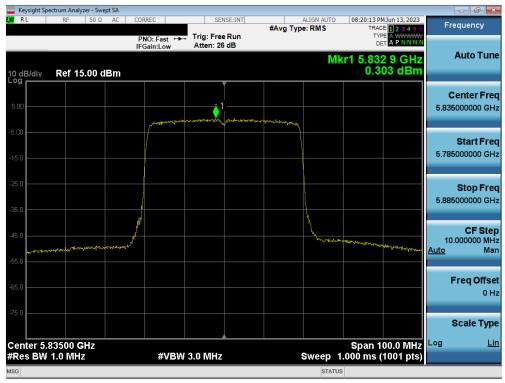
Plot 7-157. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 4) - Ch. 173)



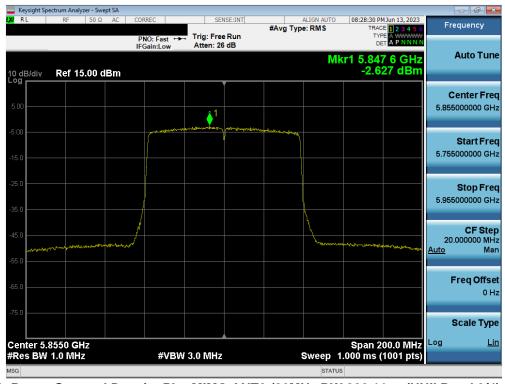
Plot 7-158. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 3/4) - Ch. 167)

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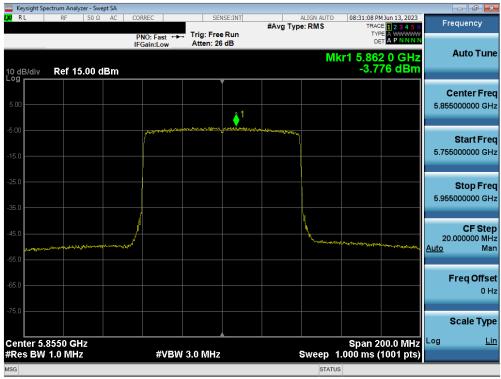
Plot 7-159. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 3/4) - Ch. 167)



Plot 7-160. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ac (UNII Band 3/4) - Ch. 171)

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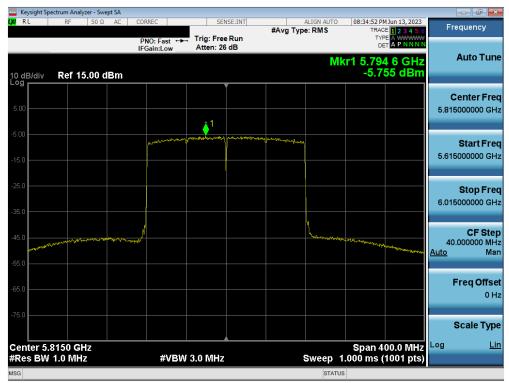
Plot 7-161. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax (UNII Band 3/4) - Ch. 171)



Plot 7-162. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802.11ac (UNII Band 3/4) - Ch. 163)

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

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 5845MHz in 802.11n (20MHz BW) mode, the average conducted power spectral density was measured to be 4.91 dBm for Antenna 1 and 5.25 dBm for Antenna 2.

(4.91 dBm + 5.25 dBm) = (3.10 mW + 3.00 mW) = 6.45 mW = 8.09 dBm

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

At 5845MHz in 802.11n (20MHz BW) mode, the average MIMO power density was calculated to be 8.09 dBm with directional gain of -1.67 dBi.

$$8.09 \text{ dBm} + -1.67 \text{ dBi} = 6.42 \text{ dBm}$$

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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 C63.10-2013, 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 15.6dMb/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 7-22. Radiated Limits

Test Procedures Used

ANSI C63.10-2013 – Sections 12.7.7.2, 12.7.6, 12.7.5 (Radiated Spurious Emissions) ANSI C63.10-2013 – Section 12.7.4.4 (Band Edge Measurements)

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Test Settings - Above 1GHz

<u>Average Field Strength Measurements (Method AD - Average Detection)</u>

- 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 $\geq 2 \times \text{span} \setminus \text{RBW}$)
- 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.
- 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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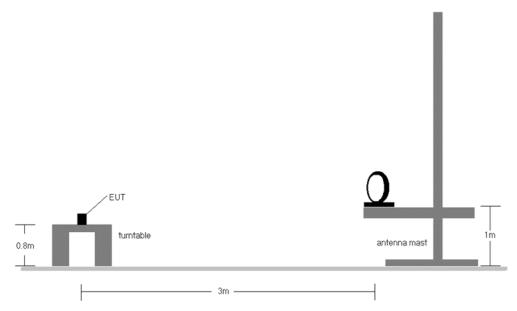


Figure 7-5. Radiated Test Setup < 30MHz

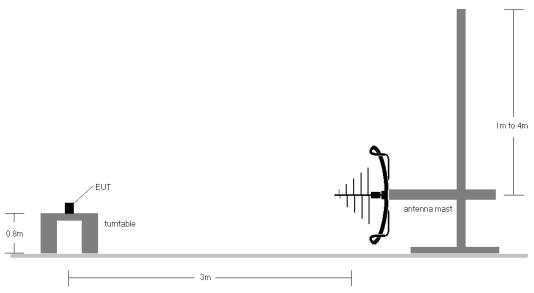


Figure 7-6. Radiated Test Setup < 1GHz

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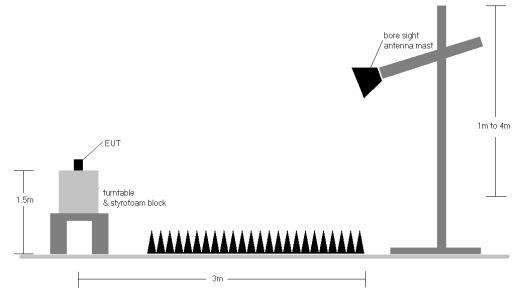


Figure 7-7. Radiated Test Setup > 1GHz

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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 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.
- 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.
- 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.

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]
- o Margin [dB] = Field Strength Level $[dB\mu V/m]$ Limit $[dB\mu V/m]$

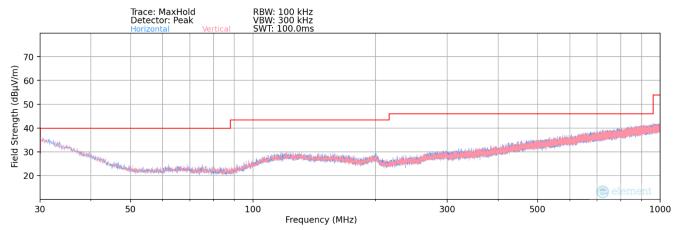
Radiated Band Edge Measurement Offset

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

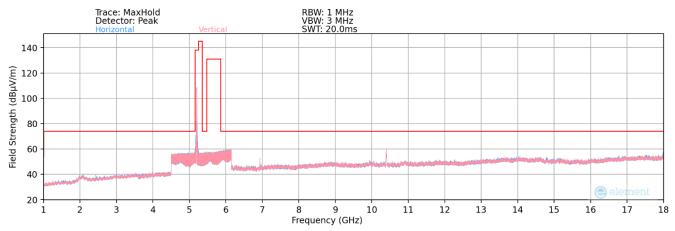
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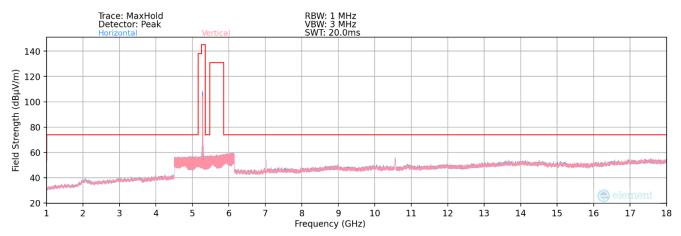
7.6.1 MIMO Radiated Spurious Emission Measurements



Plot 7-164. Radiated Spurious Plot below 1GHz MIMO (802.11a)



Plot 7-165. Radiated Spurious Plot above 1GHz MIMO (802.11a - UNII Band 1 Ch. 40)



Plot 7-166. Radiated Spurious Plot above 1GHz MIMO (802.11a - UNII Band 2A Ch. 56)

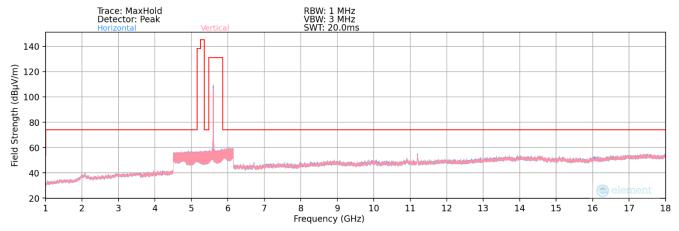
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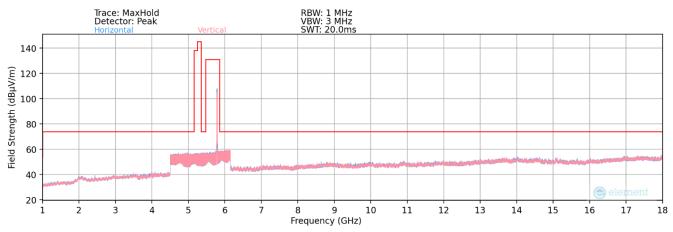
V9.0 02/01/2019

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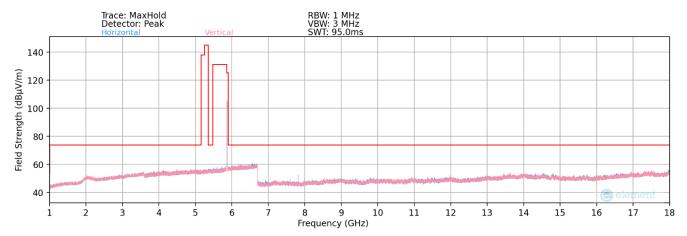




Plot 7-167. Radiated Spurious Plot above 1GHz MIMO (802.11a – UNII Band 2C Ch. 120)



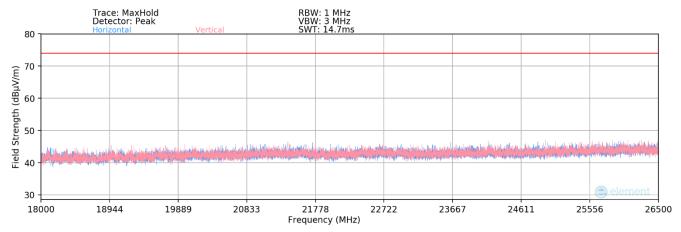
Plot 7-168. Radiated Spurious Plot above 1GHz MIMO (802.11a – UNII Band 3 Ch. 157)



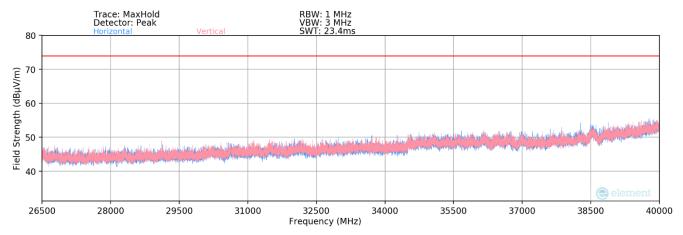
Plot 7-169. Radiated Spurious Plot above 1GHz MIMO (802.11a - UNII Band 4 Ch. 173)

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Plot 7-170. Radiated Spurious Plot 18GHz - 26.5GHz MIMO (802.11a)



Plot 7-171. Radiated Spurious Plot 26.5GHz - 40GHz MIMO (802.11a)

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MIMO Radiated Spurious Emission Measurements - UNII Band 1

Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:

Operating Frequency:

Channel:

802.11a

6Mbps

1 & 3 Meters

5180MHz

36

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correctio n Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10360.00	Peak	V	115	165	-53.66	11.65	0.00	64.99	68.20	-3.21
*	15540.00	Average	٧	-	-	-81.71	14.50	0.00	39.79	53.98	-14.19
*	15540.00	Peak	V	-	-	-69.47	14.50	0.00	52.03	73.98	-21.95
*	20720.00	Average	V	150	47	-65.28	3.50	-9.54	35.68	53.98	-18.30
*	20720.00	Peak	V	150	47	-56.54	3.50	-9.54	44.43	73.98	-29.55
	25900.00	Peak	V	-	-	-55.92	4.57	-9.54	46.11	68.20	-22.09

Table 7-23. Radiated Measurements MIMO

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6Mbps

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5200MHz

Channel: 40

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correctio n Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	6933.00	Peak	V	109	147	-61.47	7.96	0.00	53.49	68.20	-14.71
	10400.00	Peak	٧	109	164	-54.45	11.68	0.00	64.23	68.20	-3.97
*	15600.00	Average	V	-	-	-81.74	14.41	0.00	39.67	53.98	-14.31
*	15600.00	Peak	V	-	-	-69.16	14.41	0.00	52.25	73.98	-21.73
*	20800.00	Average	٧	150	27	-64.67	3.60	-9.54	36.39	53.98	-17.59
*	20800.00	Peak	V	150	27	-56.00	3.60	-9.54	45.06	73.98	-28.92
	26000.00	Peak	V	-	-	-56.02	4.60	-9.54	46.03	68.20	-22.17

Table 7-24. Radiated Measurements MIMO

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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 Correctio n Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10480.00	Peak	V	110	166	-58.50	12.23	0.00	60.73	68.20	-7.47
*	15720.00	Average	٧	-		-82.25	14.54	0.00	39.29	53.98	-14.69
*	15720.00	Peak	٧	-		-70.31	14.54	0.00	51.23	73.98	-22.75
*	20960.00	Average	V	150	28	-64.10	3.61	-9.54	36.96	53.98	-17.02
*	20960.00	Peak	V	150	28	-55.85	3.61	-9.54	45.22	73.98	-28.76
	26200.00	Peak	V	-	-	-55.76	4.72	-9.54	46.42	68.20	-21.78

Table 7-25. Radiated Measurements MIMO

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MIMO Radiated Spurious Emission Measurements - UNII Band 2A

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	V	110	162	-58.90	12.69	0.00	60.79	68.20	-7.41
*	15780.00	Average	V	-	-	-82.60	14.92	0.00	39.32	53.98	-14.66
*	15780.00	Peak	V	-	-	-70.50	14.92	0.00	51.42	73.98	-22.56
*	21040.00	Average	V	150	32	-64.70	3.71	-9.54	36.47	53.98	-17.51
*	21040.00	Peak	V	150	32	-55.67	3.71	-9.54	45.50	73.98	-28.48
	26300.00	Peak	V	-	-	-56.25	4.64	-9.54	45.85	68.20	-22.35

Table 7-26. Radiated Measurements MIMO

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]
	7040.00	Peak	V	110	152	-61.98	8.34	0.00	53.36	68.20	-14.84
	10560.00	Peak	٧	110	162	-59.94	12.25	0.00	59.31	68.20	-8.89
*	15840.00	Average	٧	-	-	-82.23	14.51	0.00	39.28	53.98	-14.70
*	15840.00	Peak	V	-	-	-69.99	14.51	0.00	51.52	73.98	-22.46
*	21120.00	Average	V	150	32	-65.31	3.83	-9.54	35.98	53.98	-18.00
*	21120.00	Peak	V	150	32	-55.95	3.83	-9.54	45.34	73.98	-28.64
	26400.00	Peak	V	-	-	-55.82	4.68	-9.54	46.32	68.20	-21.88

Table 7-27. Radiated Measurements MIMO

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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	V	111	153	-71.09	12.01	0.00	47.92	53.98	-6.06
*	10640.00	Peak	V	111	153	-58.93	12.01	0.00	60.08	73.98	-13.90
*	15960.00	Average	V	-	-	-82.93	15.87	0.00	39.94	53.98	-14.04
*	15960.00	Peak	V	-	-	-70.90	15.87	0.00	51.97	73.98	-22.01
*	21280.00	Average	V	150	28	-64.98	3.95	-9.54	36.43	53.98	-17.55
*	21280.00	Peak	V	150	28	-56.22	3.95	-9.54	45.19	73.98	-28.78
	26600.00	Peak	V	-	-	-56.13	4.51	-9.54	45.84	68.20	-22.36

Table 7-28. Radiated Measurements MIMO

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MIMO Radiated Spurious Emission Measurements - UNII Band 2C

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	٧	110	147	-68.16	12.13	0.00	50.97	53.98	-3.01
*	11000.00	Peak	٧	110	147	-54.36	12.13	0.00	64.77	73.98	-9.21
	16500.00	Peak	٧	-	-	-69.67	16.13	0.00	53.46	68.20	-14.74
	22000.00	Peak	V	150	32	-56.21	3.86	-9.54	45.11	68.20	-23.09
	27500.00	Peak	V	-	-	-56.62	4.54	-9.54	45.38	68.20	-22.82

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	109	147	-72.56	12.24	0.00	46.68	53.98	-7.30
*	11200.00	Peak	٧	109	147	-60.04	12.24	0.00	59.20	73.98	-14.78
	16800.00	Peak	V	-	-	-69.87	16.46	0.00	53.59	68.20	-14.61
*	22400.00	Average	V	150	33	-65.28	3.86	-9.54	36.03	53.98	-17.95
*	22400.00	Peak	V	150	33	-55.10	3.86	-9.54	46.21	73.98	-27.77
	28000.00	Peak	V	-	-	-56.59	4.90	-9.54	45.78	68.20	-22.42

Table 7-30. Radiated Measurements MIMO

FCC ID: A3LSMS711U		MEASUREMENT REPORT	Approved by: Technical Manager	
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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	٧	109	131	-81.00	12.95	0.00	38.95	53.98	-15.03
*	11440.00	Peak	٧	109	131	-68.15	12.95	0.00	51.80	73.98	-22.18
	17160.00	Peak	V	-	-	-68.83	16.76	0.00	54.93	68.20	-13.27
*	22880.00	Average	٧	-	-	-65.40	4.09	-9.54	36.15	53.98	-17.82
*	22880.00	Peak	V	-	-	-56.56	4.09	-9.54	44.99	73.98	-28.99
	28600.00	Peak	V	-	-	-57.52	5.30	-9.54	45.24	68.20	-22.96

Table 7-31. Radiated Measurements MIMO

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	٧	111	153	-69.77	12.13	0.00	49.36	53.98	-4.62
*	11000.00	Peak	٧	111	153	-56.10	12.13	0.00	63.03	73.98	-10.95
	16500.00	Peak	V	-	-	-69.33	16.13	0.00	53.80	68.20	-14.40
	22000.00	Peak	V	-	-	-56.33	3.86	-9.54	44.98	68.20	-23.22
	27500.00	Peak	V	-	-	-56.70	4.54	-9.54	45.30	68.20	-22.90

Table 7-32. Radiated Measurements MIMO with WCP

FCC ID: A3LSMS711U		MEASUREMENT REPORT	Approved by: Technical Manager
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MIMO Radiated Spurious Emission Measurements - UNII Band 3

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	V	115	184	-80.57	12.89	0.00	39.32	53.98	-14.66
*	11490.00	Peak	٧	115	184	-69.05	12.89	0.00	50.84	73.98	-23.14
	17235.00	Peak	V	-	-	-69.15	16.94	0.00	54.79	68.20	-13.41
*	22980.00	Average	V	-	-	-65.84	4.00	-9.54	35.62	53.98	-18.36
*	22980.00	Peak	V	-	-	-55.94	4.00	-9.54	45.52	73.98	-28.46
	28725.00	Peak	V	-	-	-56.75	5.36	-9.54	46.07	69.20	-23.13

Table 7-33. Radiated Measurements MIMO

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]	I ⊨actor	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11570.00	Average	V	117	179	-80.65	12.68	0.00	39.03	53.98	-14.95
*	11570.00	Peak	٧	117	179	-68.74	12.68	0.00	50.94	73.98	-23.04
	17355.00	Peak	٧	-	-	-70.11	17.64	0.00	54.53	68.20	-13.67
	23140.00	Peak	V	-	-	-56.55	3.94	-9.54	44.84	68.20	-23.36
	28925.00	Peak	V	-	-	-57.15	5.33	-9.54	45.64	68.20	-22.56

Table 7-34. Radiated Measurements MIMO

FCC ID: A3LSMS711U		MEASUREMENT REPORT	Approved by: Technical Manager	
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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	٧	-	-	-82.35	13.21	0.00	37.86	53.98	-16.12
*	11650.00	Peak	٧	-	-	-70.02	13.21	0.00	50.19	73.98	-23.79
	17475.00	Peak	V	-	-	-68.67	17.12	0.00	55.45	68.20	-12.75
	23300.00	Peak	٧	-	-	-56.76	4.04	-9.54	44.74	68.20	-23.46
	29125.00	Peak	V	-	-	-56.86	5.36	-9.54	45.96	68.20	-22.24

Table 7-35. Radiated Measurements MIMO

FCC ID: A3LSMS711U		MEASUREMENT REPORT	Approved by: Technical Manager
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MIMO Radiated Spurious Emission Measurements - UNII Band 4

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	V	-	-	-82.40	13.23	0.00	37.83	53.98	-16.15
*	11690.00	Peak	V	-	-	-70.27	13.23	0.00	49.96	73.98	-24.02
	17535.00	Peak	V	-	-	-68.26	17.25	0.00	55.99	68.20	-12.21
	23380.00	Peak	V	-	-	-57.80	3.89	-9.54	53.09	68.20	-15.11
	29225.00	Peak	V	-	-	-56.42	5.50	-9.54	56.09	68.20	-12.11
	35070.00	Peak	V	-	-	-57.18	8.14	-9.54	57.96	68.20	-10.24

Table 7-36. 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]
	7820.00	Peak	V	109	154	-63.81	8.42	0.00	51.61	68.20	-16.59
*	11730.00	Average	V	-	-	-82.43	13.85	0.00	38.42	53.98	-15.56
*	11730.00	Peak	V	-	-	-70.37	13.85	0.00	50.48	73.98	-23.50
	17595.00	Peak	V		-	-69.55	17.42	0.00	54.87	68.20	-13.33
	23460.00	Peak	V		-	-56.63	4.00	-9.54	54.37	68.20	-13.83
	29325.00	Peak	V	=	-	-57.06	5.64	-9.54	55.58	68.20	-12.62
	35190.00	Peak	V	=	-	-57.26	8.16	-9.54	57.90	68.20	-10.30

Table 7-37. Radiated Measurements MIMO

FCC ID: A3LSMS711U		MEASUREMENT REPORT		
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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	V	-	-	-81.89	13.84	0.00	38.95	53.98	-15.03
*	11770.00	Peak	V	=	-	-69.74	13.84	0.00	51.10	73.98	-22.88
	17655.00	Peak	V	-	-	-69.33	17.06	0.00	54.73	68.20	-13.47
	23540.00	Peak	V	-	-	-55.95	4.00	-9.54	55.05	68.20	-13.15
	29425.00	Peak	V	-	-	-57.21	5.71	-9.54	55.50	68.20	-12.70
	35310.00	Peak	V	-	-	-57.26	8.37	-9.54	58.11	68.20	-10.09

Table 7-38. Radiated Measurements MIMO

FCC ID: A3LSMS711U		MEASUREMENT REPORT	
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7.6.2 MIMO Radiated Band Edge Measurements (20MHz BW)

Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:

Operating Frequency:

Channel:

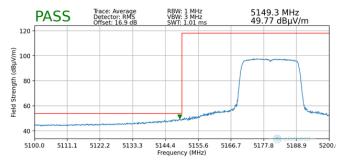
802.11ax

MCS0

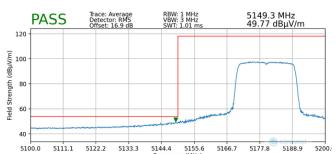
3 Meters

5180MHz

36



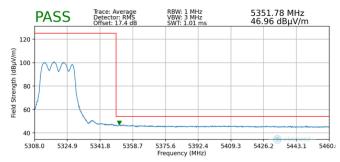
Plot 7-172. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1)



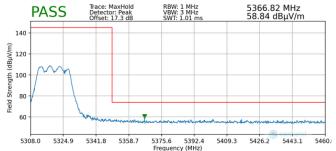
Plot 7-173. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)

Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

802.11a
6Mbps
3 Meters
5320MHz
64



Plot 7-174. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A)



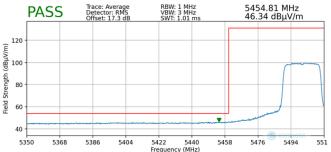
Plot 7-175. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A)

FCC ID: A3LSMS711U		MEASUREMENT REPORT		
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802.11ax	
MCS0	
3 Meters	
5500MHz	
100	



5350 5368 Plot 7-177. Radiated Lower Band Edge Plot MIMO (Peak - UNII Band 2C)

PASS

140

120 1gth

100 Field Stre

Trace: MaxHold Detector: Peak Offset: 17.6 dB

5469.88 MHz

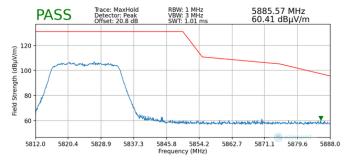
65.1 dBµV/m

5458

Plot 7-176. Radiated Lower Band Edge Plot MIMO (Average - UNII Band 2C)

Worst Case Mode: Worst Case Transfer Rate: Distance of Measurements: Operating Frequency: Channel:

802.11ac MCS₀ 3 Meters 5825MHz 165



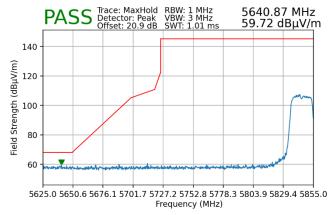
Plot 7-178. Radiated Upper Band Edge Plot MIMO (Peak - UNII Band 3)

FCC ID: A3LSMS711U		MEASUREMENT REPORT	
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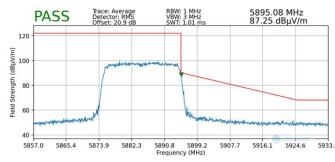
802.11ac	
MCS0	
3 Meters	
5845MHz	
169	



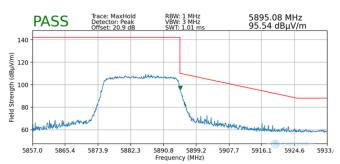
Plot 7-179. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 4)

Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

802.11ax
MCS0
3 Meters
5885MHz
177



Plot 7-180. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 4)



Plot 7-181. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 4)

FCC ID: A3LSMS711U		MEASUREMENT REPORT		
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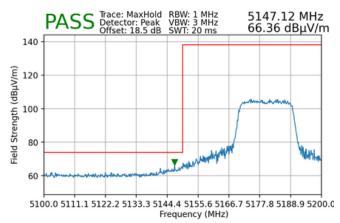
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802.11ax	
MCS0	
3 Meters	
5180MHz	
36	

		PASS	Detection Offset:	Average or: RMS 18.7 dB	RBW: VBW: SWT: 2	3 MHz			4 MHz BμV/m
	120								
-	110			+	++				
m/VL	100			-	++				
(dB)	90			_	+		iggr g		
Field Strength (dBµV/m)	80				+				1
Stre	70						-		1
Field	60				+	_	J		+
_	50				_				
	40		_	-	-	-			
	510	00.0 5111.1	5122.2 5			55.6 516 cy (MHz)		77.8 518	8.9 5200.0

Plot 7-182. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 1) with WCP



Plot 7-183. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 1) with WCP

FCC ID: A3LSMS711U		MEASUREMENT REPORT		
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7.6.3 MIMO Radiated Band Edge Measurements (40MHz BW)

Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:

Operating Frequency:

Channel:

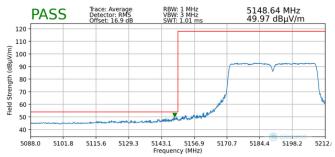
802.11ac

MCS0

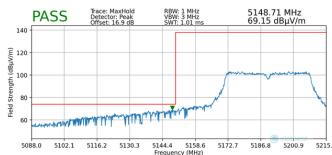
3 Meters

5190MHz

38



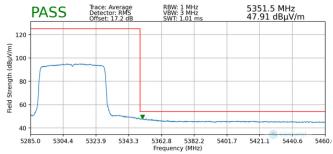
Plot 7-184. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1)



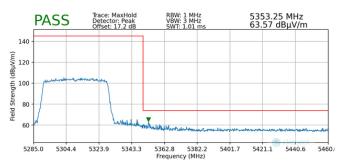
Plot 7-185. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)

Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

802.11ax
MCS0
3 Meters
5310MHz
62



Plot 7-186. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A)



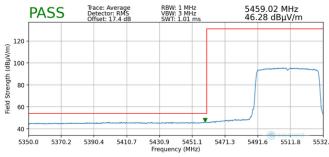
Plot 7-187. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A)

FCC ID: A3LSMS711U		MEASUREMENT REPORT	
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Worst Case Mode: 802.11ax Worst Case Transfer Rate: MCS0 Distance of Measurements: 3 Meters Operating Frequency: 5510MHz Channel: 102

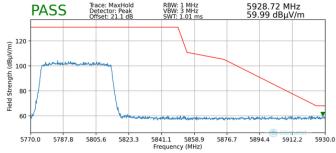


Trace: MaxHold Detector: Peak Offset: 17.6 dB 5468.3 MHz **PASS** 58.75 dBμV/m 140 120 듐 100 Field 5430.9 5451.1 Frequency (MHz) 5471.3

Plot 7-188. Radiated Lower Band Edge Plot MIMO (Average - UNII Band 2C)

Plot 7-189. Radiated Lower Band Edge Plot MIMO (Peak - UNII Band 2C)

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



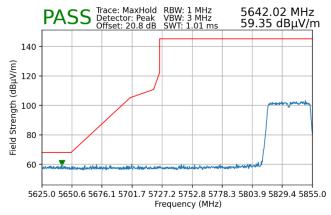
Plot 7-190. Radiated Upper Band Edge Plot MIMO (Peak - UNII Band 3)

FCC ID: A3LSMS711U	MEASUREMENT REPORT		Approved by: Technical Manager
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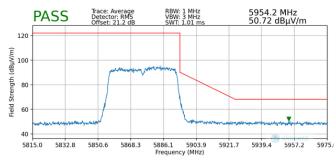


802.11ac	
MCS0	
3 Meters	
5835MHz	
167	

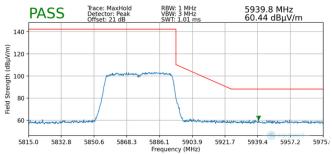


Plot 7-191. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 4)

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



Plot 7-192. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 4)



Plot 7-193. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 4)

FCC ID: A3LSMS711U	MEASUREMENT REPORT		Approved by: Technical Manager
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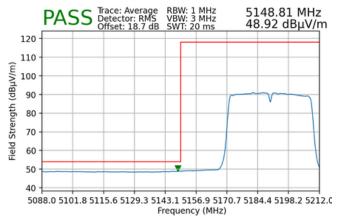
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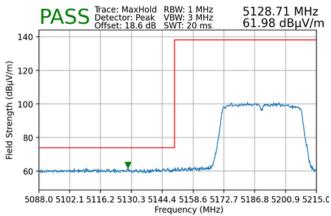


Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

802.11ac
MCS0
3 Meters
5190MHz
38



Plot 7-194. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 1) with WCP



Plot 7-195. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 1) with WCP

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7.6.4 MIMO Radiated Band Edge Measurements (80MHz BW)

Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:

Operating Frequency:

Channel:

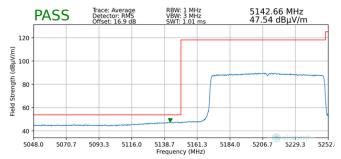
802.11ax

MCS0

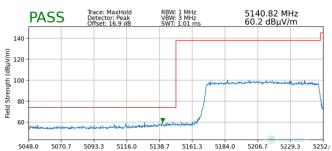
3 Meters

5210MHz

42



Plot 7-196. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1)



Plot 7-197. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)

Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:

Operating Frequency:

Channel:

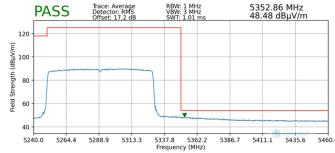
802.11ax

MCS0

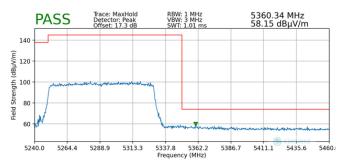
3 Meters

5290MHz

58



Plot 7-198. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A)

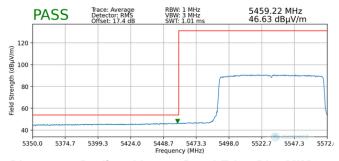


Plot 7-199. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A)

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802.11ax	
MCS0	
3 Meters	
5530MHz	
106	



120 100 Field Strength 80 5350.0 5374.7 5399.3 5448.7 5473.3 ency (MHz) 5498.0 5522.7 5547.3

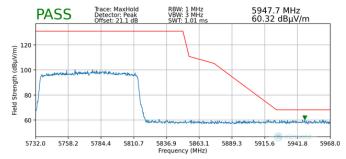
PASS

5459.22 MHz 46.63 dBμV/m

Plot 7-200. Radiated Lower Band Edge Plot MIMO (Average - UNII Band 2C)

Plot 7-201. 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 7-202. Radiated Upper Band Edge Plot MIMO (Peak - UNII Band 3)

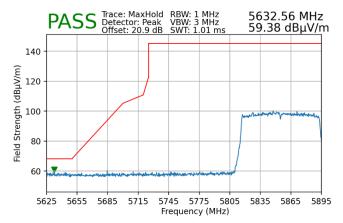
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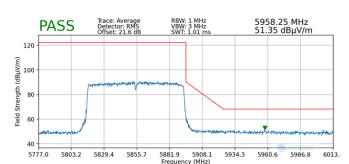
Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

802.11ac
MCS0
3 Meters
5855MHz
171

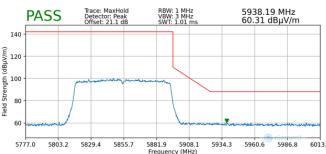


Plot 7-203. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 4)

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



Plot 7-204. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 4)



Plot 7-205. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 4)

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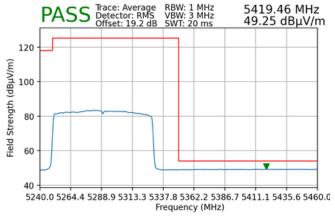
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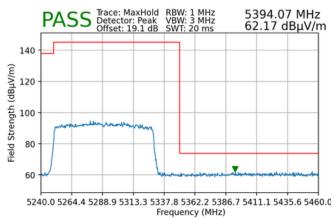
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802.11ax	
MCS0	
3 Meters	_
5290MHz	_
58	_



Plot 7-206. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2A) with WCP



Plot 7-207. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2A) with WCP

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