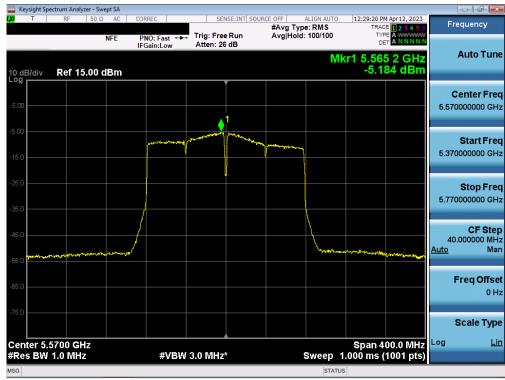




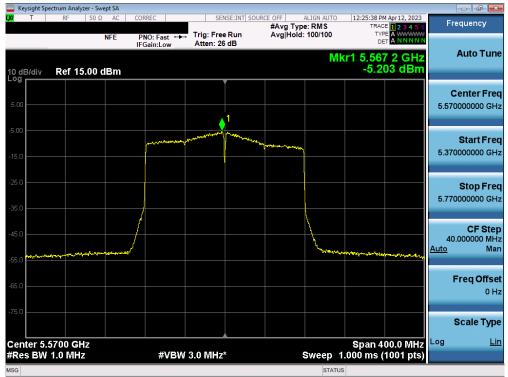
Plot 7-105. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax (UNII Band 2C) - Ch. 122)



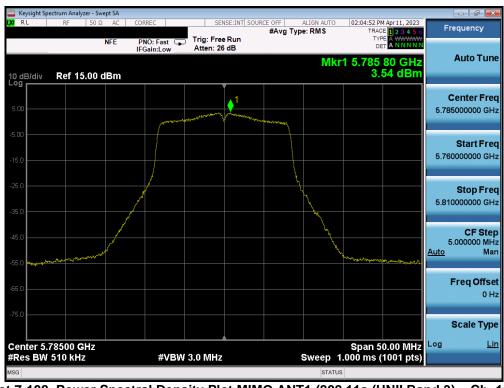
Plot 7-106. Power Spectral Density Plot MIMO ANT1 (160MHz BW 802.11ac (UNII Band 2C) - Ch. 114)

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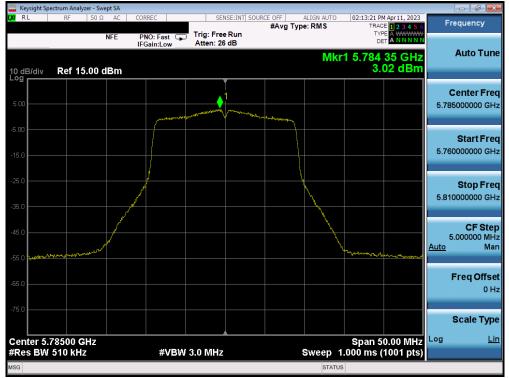
Plot 7-107. Power Spectral Density Plot MIMO ANT1 (160MHz BW 802.11ax (UNII Band 2C) - Ch. 114)



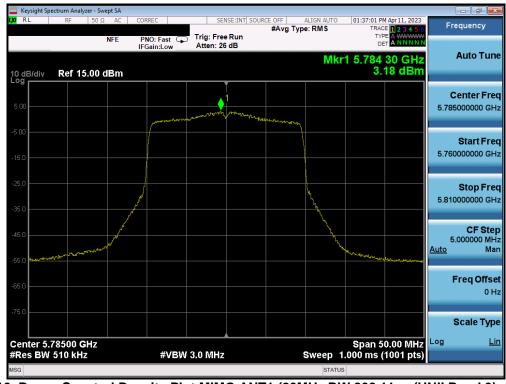
Plot 7-108. Power Spectral Density Plot MIMO ANT1 (802.11a (UNII Band 3) - Ch. 157)

FCC ID: A3LSMF731B	MEASUREMENT REPORT		Approved by: Technical Manager
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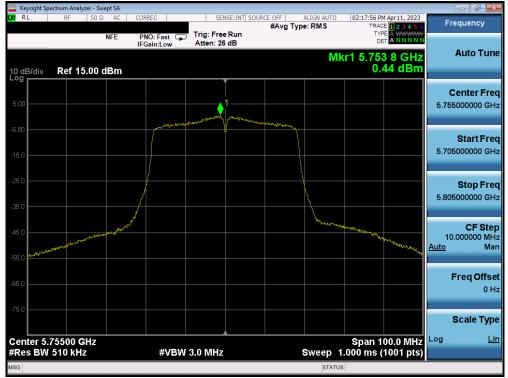
Plot 7-109. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 3) - Ch. 157)



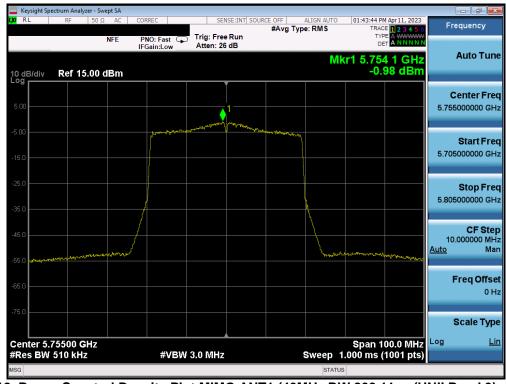
Plot 7-110. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 3) - Ch. 157)

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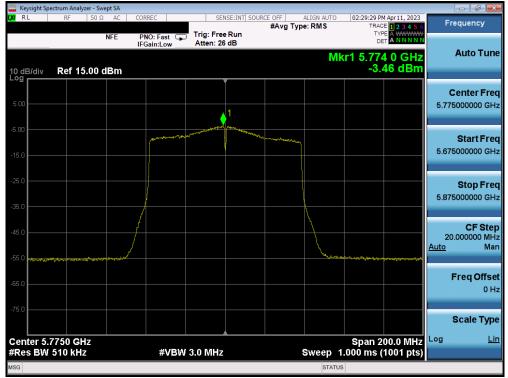
Plot 7-111. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11n (UNII Band 3) - Ch. 151)



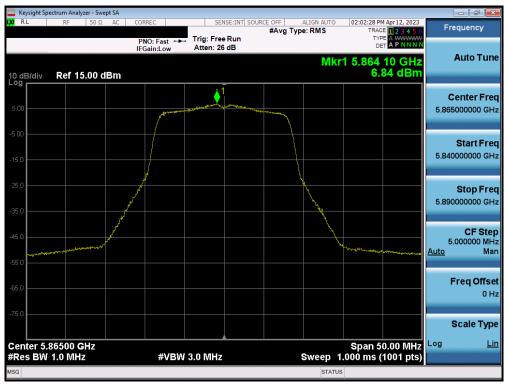
Plot 7-112. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax (UNII Band 3) - Ch. 151)

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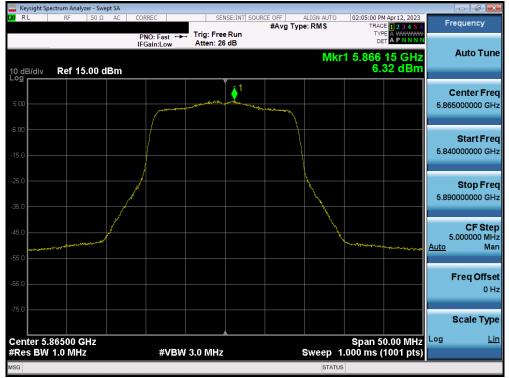
Plot 7-113. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ac (UNII Band 3) - Ch. 155)



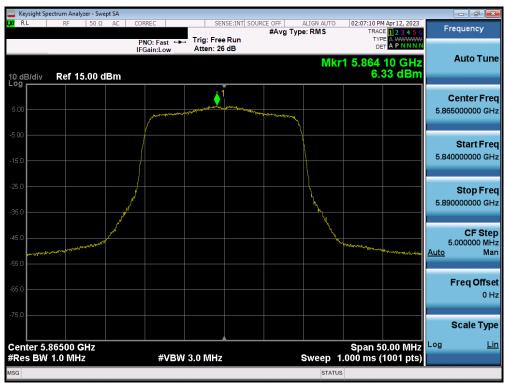
Plot 7-114. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11a (UNII Band 4) - Ch. 173)

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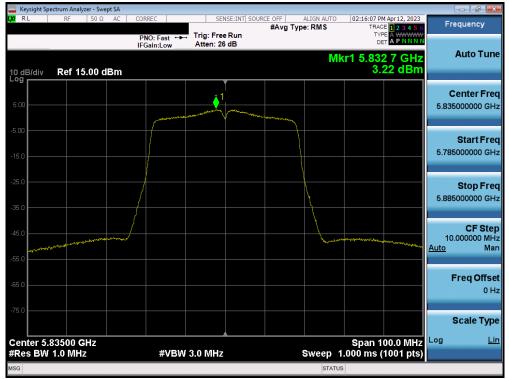
Plot 7-115. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 4) - Ch. 173)



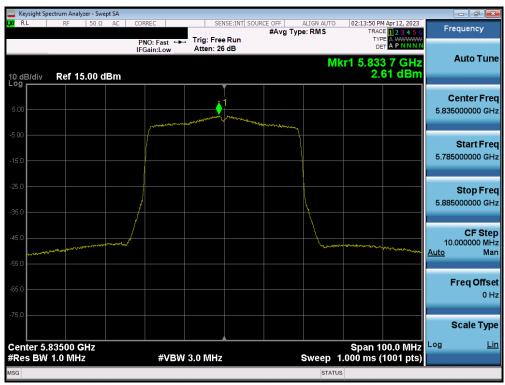
Plot 7-116. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 4) - Ch. 173)

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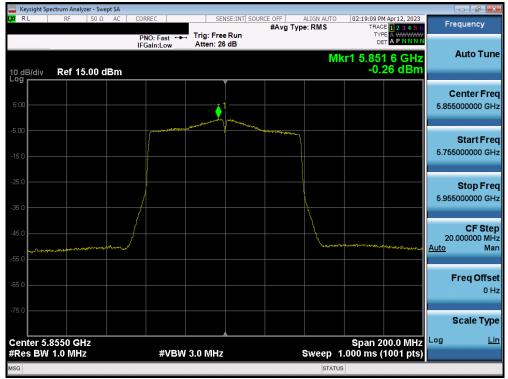
Plot 7-117. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11n (UNII Band 3/4) - Ch. 167)



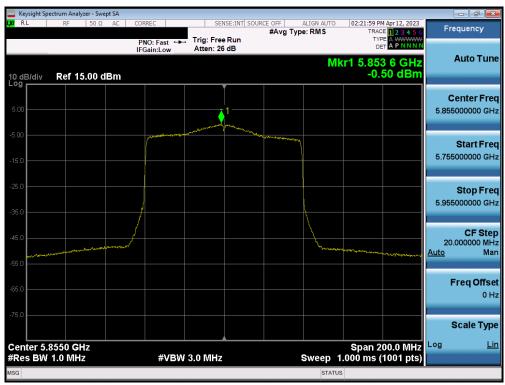
Plot 7-118. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax (UNII Band 3/4) - Ch. 167)

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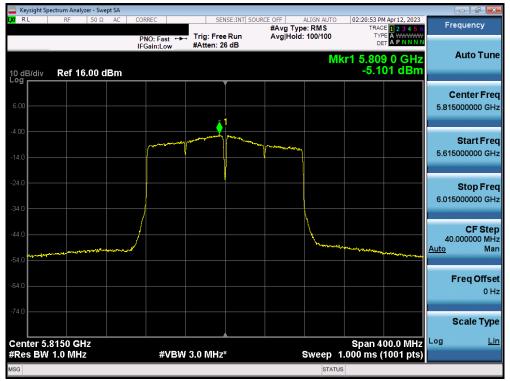
Plot 7-119. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ac (UNII Band 3/4) - Ch. 171)



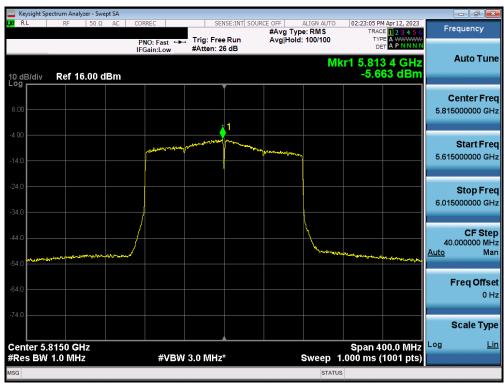
Plot 7-120. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax (UNII Band 3/4) - Ch. 171)

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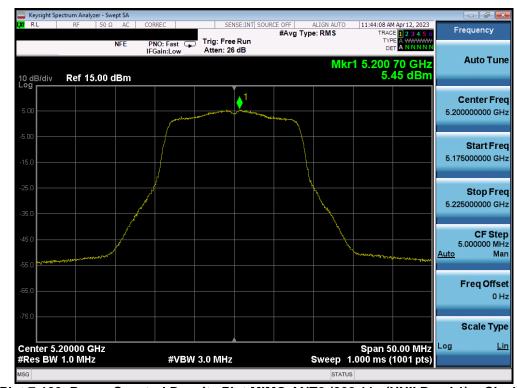
Plot 7-121. Power Spectral Density Plot MIMO ANT1 (160MHz BW 802.11ac (UNII Band 3/4) - Ch. 163)



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

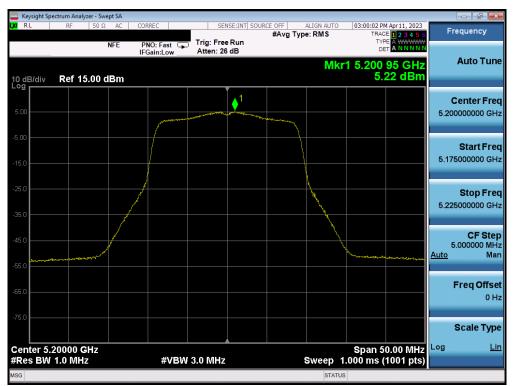
FCC ID: A3LSMF731B	MEASUREMENT REPORT		Approved by: Technical Manager
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7.5.2 MIMO Antenna-2 Power Spectral Density Measurements

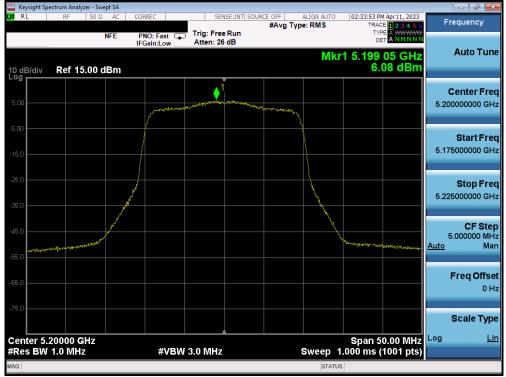




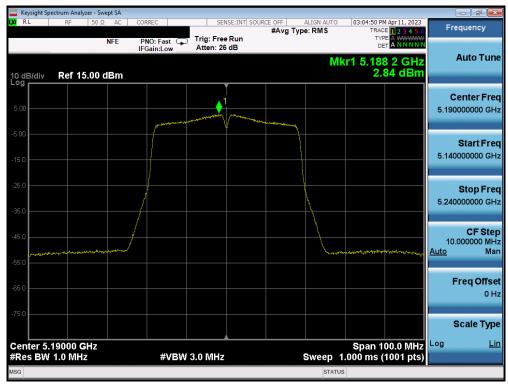
Plot 7-124. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 1) - Ch. 40)

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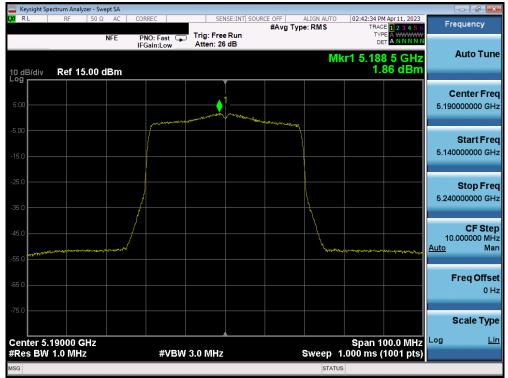
Plot 7-125. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 1) - Ch. 40)



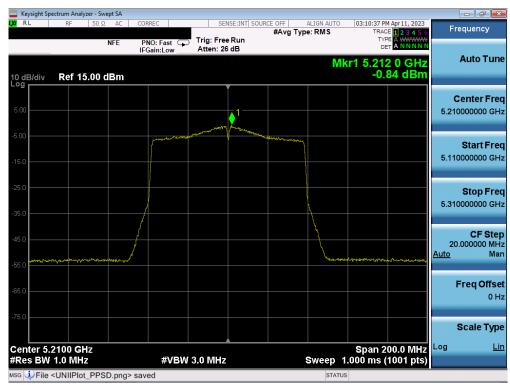
Plot 7-126. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 1) - Ch. 38)

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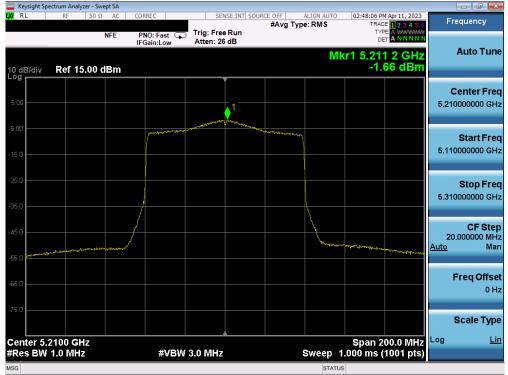
Plot 7-127. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 1) - Ch. 38)



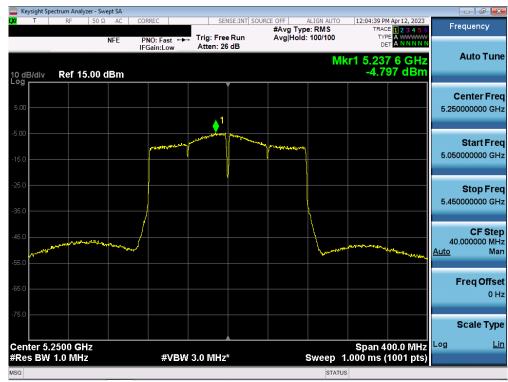
Plot 7-128. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ac (UNII Band 1) - Ch. 42)

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



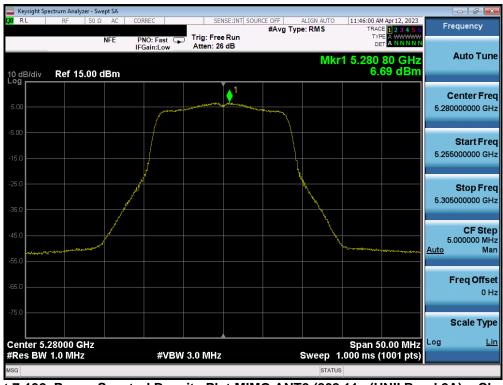
Plot 7-130. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802.11ac (UNII Band 1/2A) - Ch. 50)

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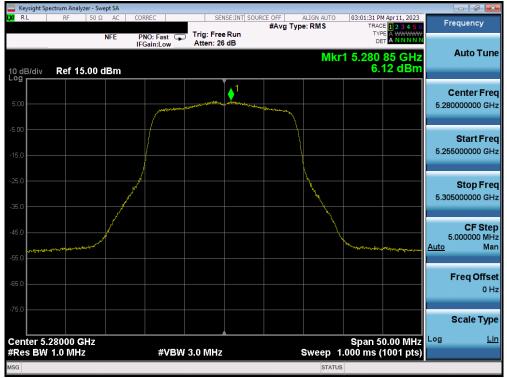
Plot 7-131. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802.11ax (UNII Band 1/2A) - Ch. 50)



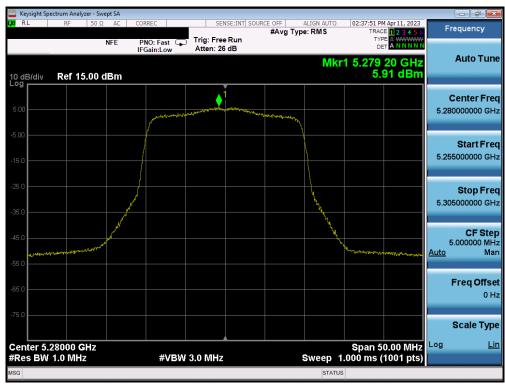
Plot 7-132. Power Spectral Density Plot MIMO ANT2 (802.11a (UNII Band 2A) - Ch. 56)

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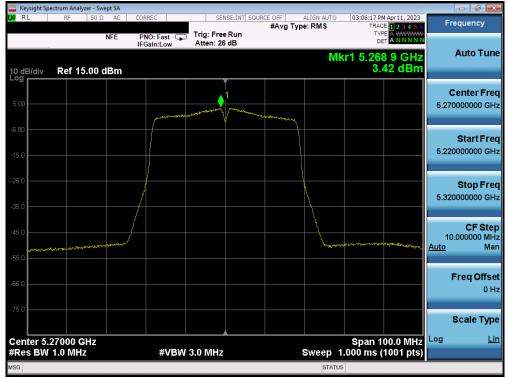
Plot 7-133. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 2A) - Ch. 56)



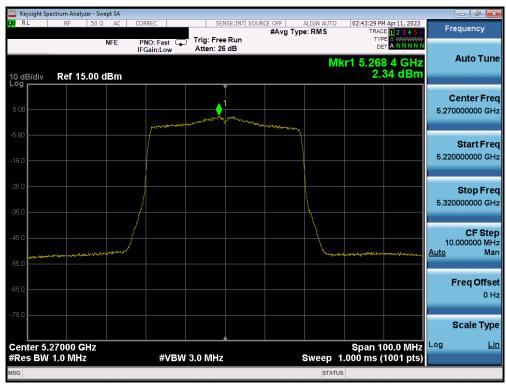
Plot 7-134. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 2A) - Ch. 56)

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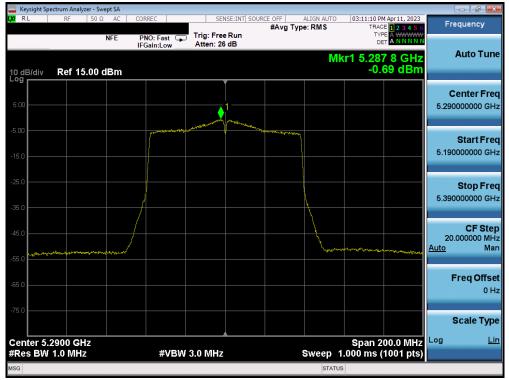
Plot 7-135. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 2A) - Ch. 54)



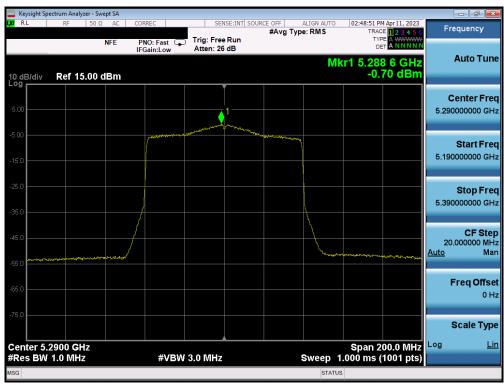
Plot 7-136. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 2A) - Ch. 54)

FCC ID: A3LSMF731B	MEASUREMENT REPORT		Approved by: Technical Manager
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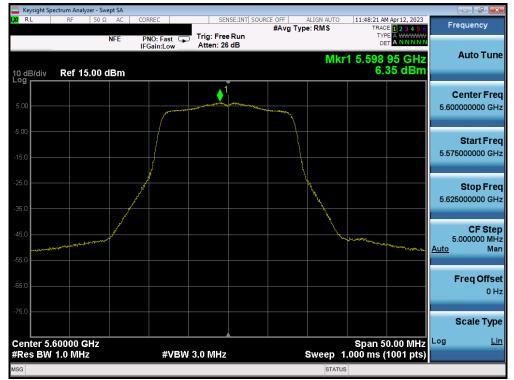
Plot 7-137. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ac (UNII Band 2A) - Ch. 58)



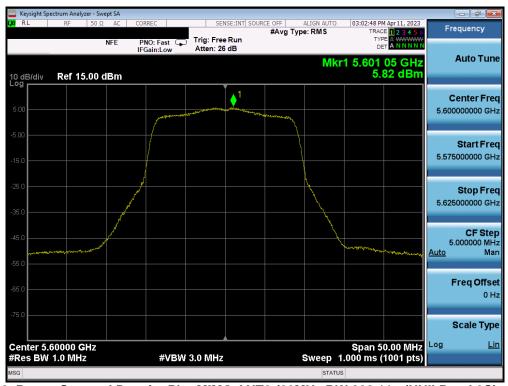
Plot 7-138. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax (UNII Band 2A) - Ch. 58)

FCC ID: A3LSMF731B	MEASUREMENT REPORT		Approved by: Technical Manager
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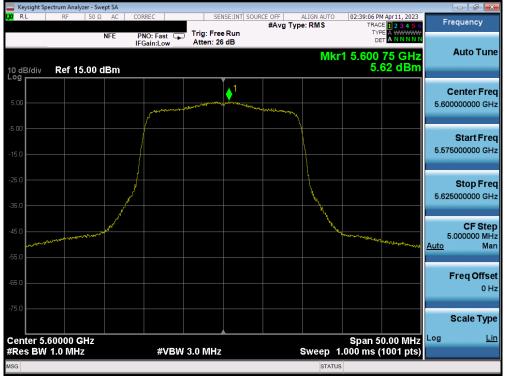
Plot 7-139. Power Spectral Density Plot MIMO ANT2 (802.11a (UNII Band 2C) - Ch. 120)



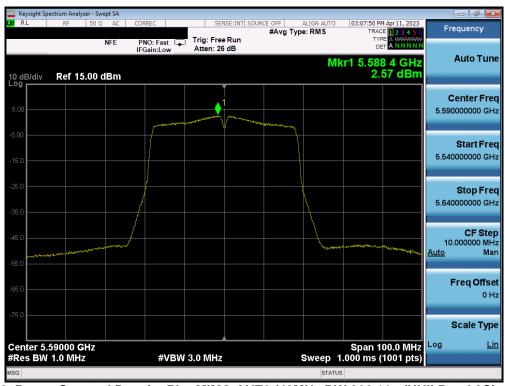
Plot 7-140. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 2C) - Ch. 120)

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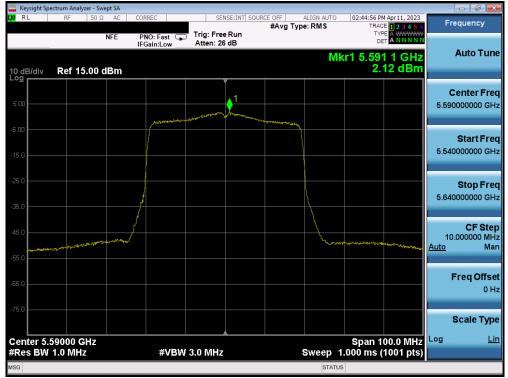
Plot 7-141. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 2C) - Ch. 120)



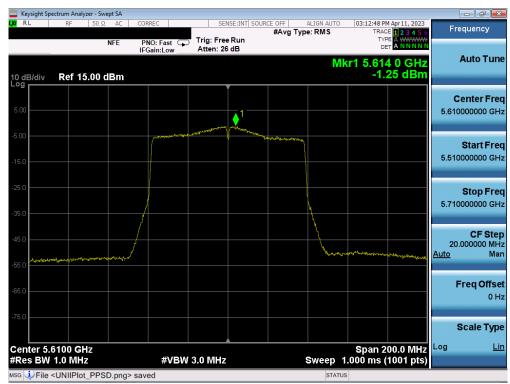
Plot 7-142. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 2C) - Ch. 118)

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Plot 7-143. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 2C) - Ch. 118)



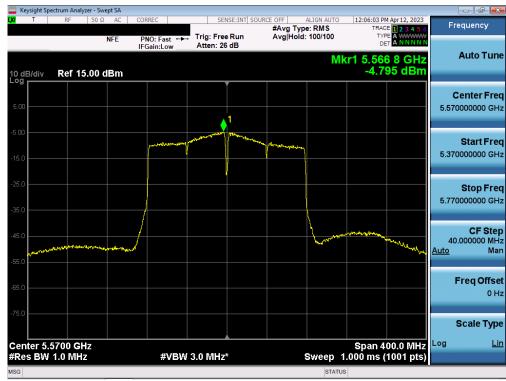
Plot 7-144. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ac (UNII Band 2C) - Ch. 122)

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



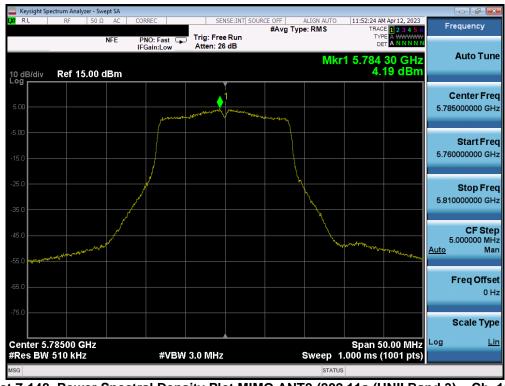
Plot 7-146. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802.11ac (UNII Band 2C) - Ch. 114)

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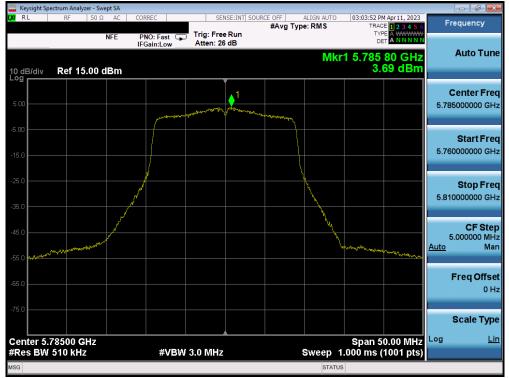
Plot 7-147. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802.11ax (UNII Band 2C) - Ch. 114)



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

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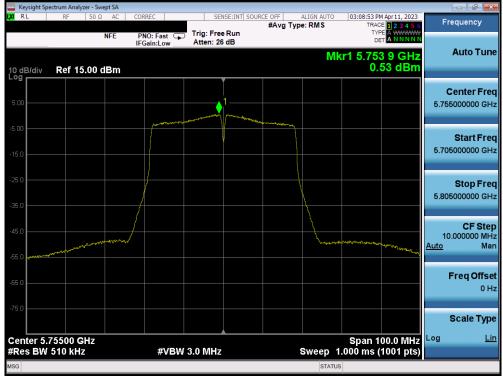
Plot 7-149. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 3) - Ch. 157)



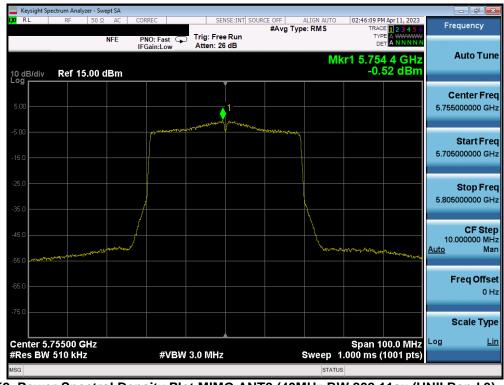
Plot 7-150. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 3) - Ch. 157)

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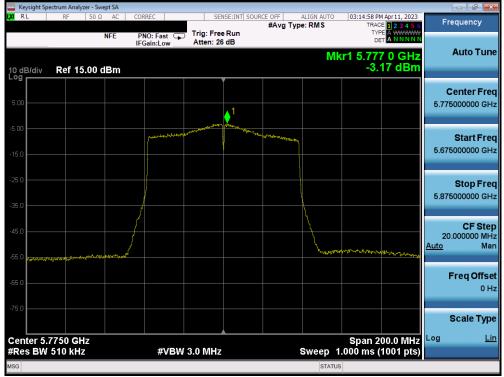
Plot 7-151. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 3) - Ch. 151)



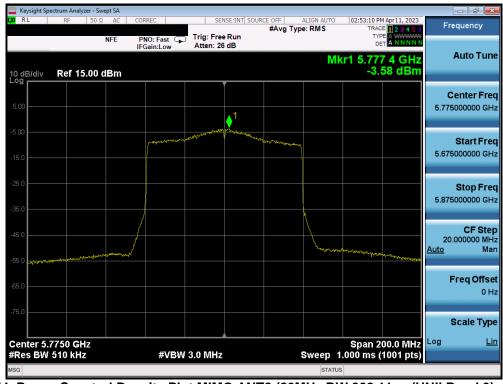
Plot 7-152. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 3) - Ch. 151)

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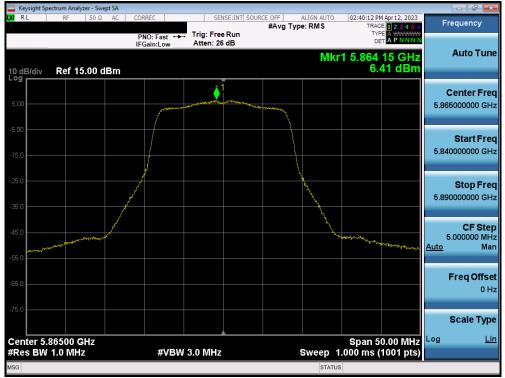
Plot 7-153. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ac (UNII Band 3) - Ch. 155)



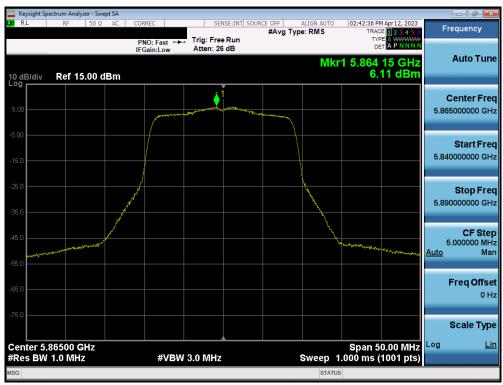
Plot 7-154. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax (UNII Band 3) - Ch. 155)

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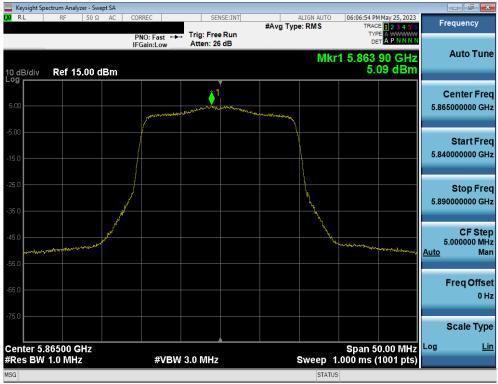
Plot 7-155. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11a (UNII Band 4) - Ch. 173)



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

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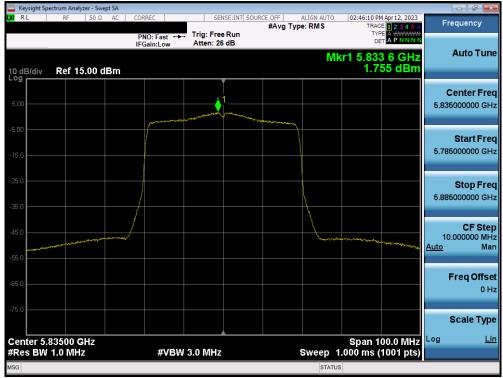
Plot 7-157. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 4) - Ch. 173)



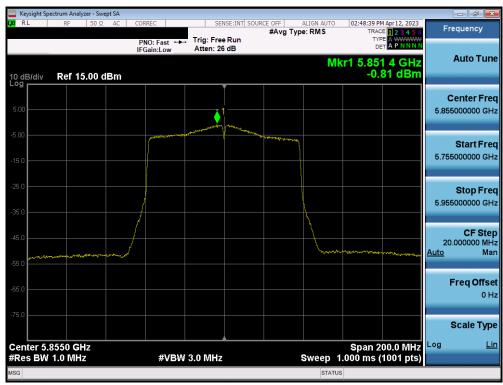
Plot 7-158. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 3/4) - Ch. 167)

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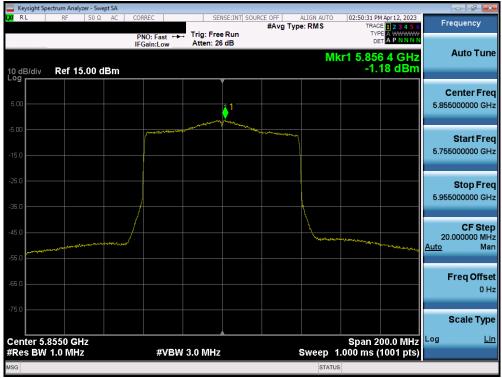
Plot 7-159. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 3/4) - Ch. 167)



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)

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Note:

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

Sample MIMO Calculation:

At 5180MHz in 802.11n (20MHz BW) mode, the average conducted power spectral density was measured to be 5.59 dBm for Antenna 1 and 5.19 dBm for Antenna 2.

Antenna 1 + Antenna 2 = MIMO

(5.59 dBm + 5.19 dBm) = (3.62 mW + 3.30 mW) = 6.92 mW = 8.40 dBm

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

At 5180MHz in 802.11n (20MHz BW) mode, the average MIMO power density was calculated to be 8.40 dBm with directional gain of -2.36 dBi.

e.i.r.p. Power Spectral Density(dBm) = Power Spectral Density (dBm) + Ant gain (dBi)

8.40 dBm + -2.36 dBi = 6.04 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 7-19. 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

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

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

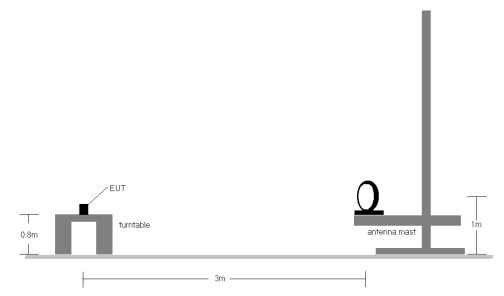
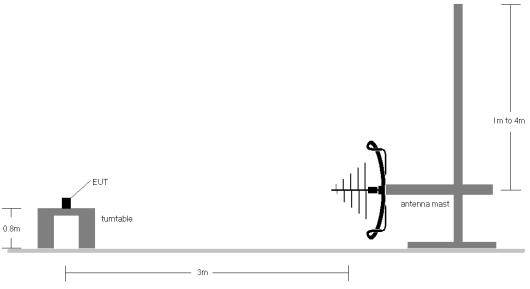
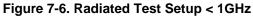


Figure 7-5. Radiated Test Setup < 30MHz





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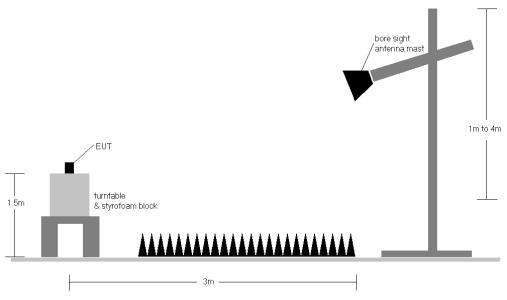


Figure 7-7. Radiated Test Setup > 1GHz

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Test Notes

- 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.
- 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 [68.2dBµV/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.

Sample Calculations

Determining Spurious Emissions Levels

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

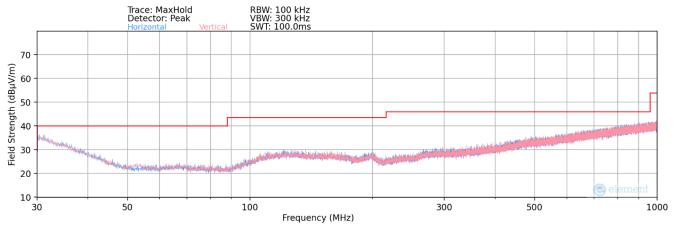
Radiated Band Edge Measurement Offset

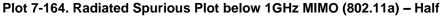
The amplitude offset shown in the radiated restricted band edge plots was calculated using the formula:
Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

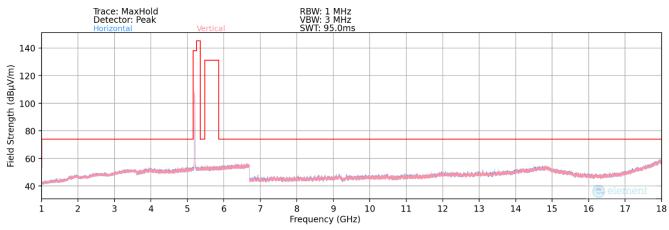
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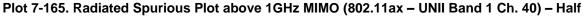


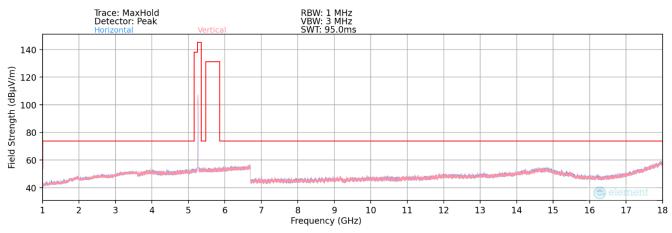
7.6.1 MIMO Radiated Spurious Emission Measurements







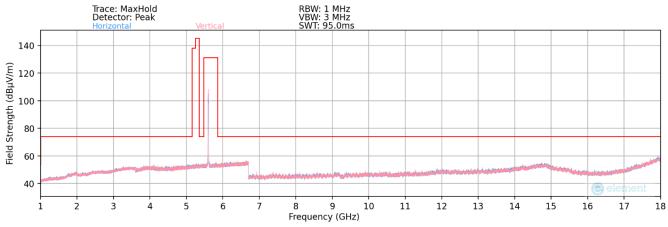




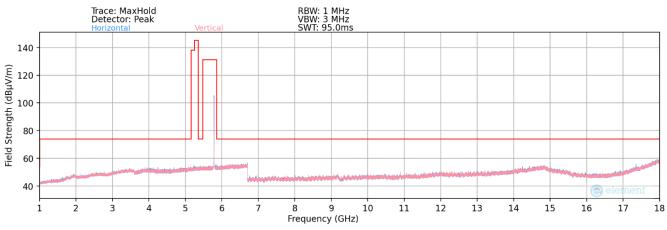
Plot 7-166. Radiated Spurious Plot above 1GHz MIMO (802.11ax - UNII Band 2A Ch. 56) - Half

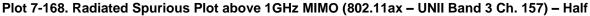
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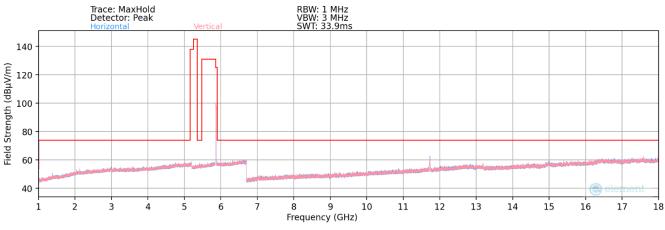




Plot 7-167. Radiated Spurious Plot above 1GHz MIMO (802.11ax - UNII Band 2C Ch. 120) - Half



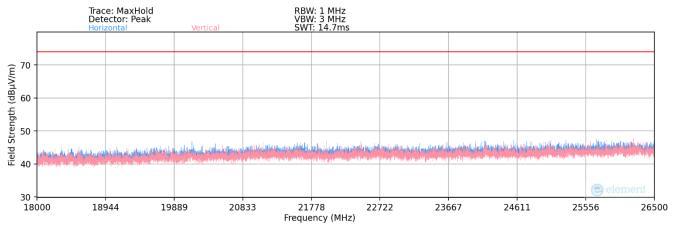




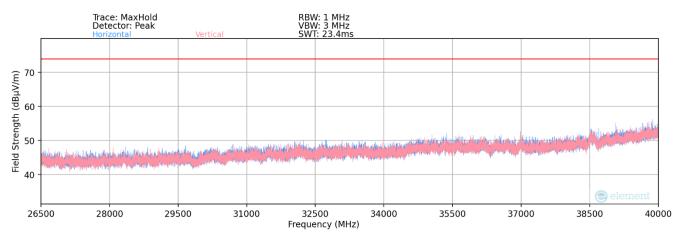
Plot 7-169. Radiated Spurious Plot above 1GHz MIMO (802.11ax - UNII Band 4 Ch. 173) - Half

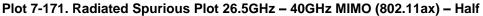
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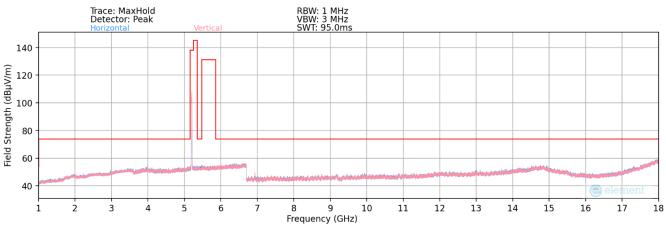








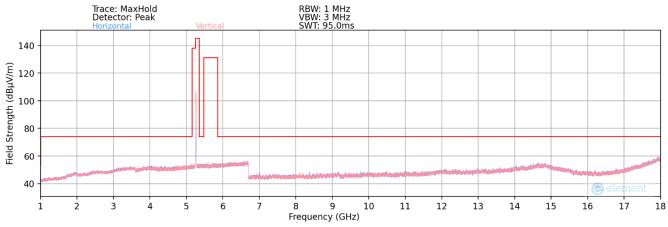




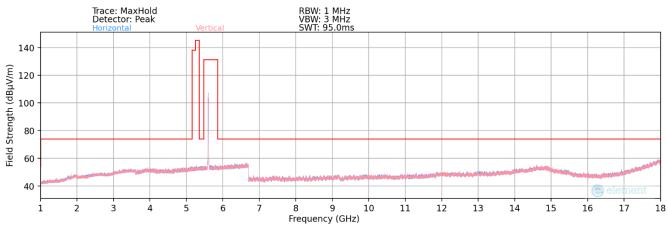
Plot 7-172. Radiated Spurious Plot above 1GHz MIMO (802.11ax - UNII Band 1 Ch. 40) - Open

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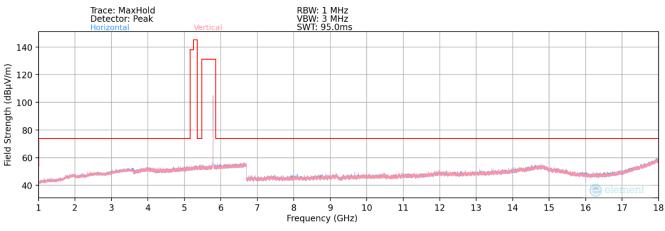




Plot 7-173. Radiated Spurious Plot above 1GHz MIMO (802.11ax - UNII Band 2A Ch. 56) - Open



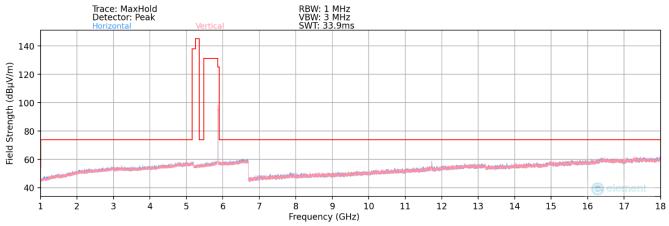




Plot 7-175. Radiated Spurious Plot above 1GHz MIMO (802.11ax - UNII Band 3 Ch. 157) - Open

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Plot 7-176. Radiated Spurious Plot above 1GHz MIMO (802.11ax - UNII Band 4 Ch. 173) - Open

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MIMO Radiated Spurious Emission Measurements - UNII Band 1

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

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10360.00	Peak	Н	249	122	-68.99	10.56	0.00	48.57	68.20	-19.63
*	15540.00	Average	н	-	-	-81.94	16.45	0.00	41.51	53.98	-12.47
*	15540.00	Peak	н	-	-	-69.96	16.45	0.00	53.49	73.98	-20.49
*	20720.00	Average	н	-	-	-66.89	3.50	-9.54	34.07	53.98	-19.91
*	20720.00	Peak	н	-	-	-56.47	3.50	-9.54	44.49	73.98	-29.49
	25900.00	Peak	Н	-	-	-56.16	4.57	-9.54	45.87	68.20	-22.33

Table 7-20. Radiated Measurements MIMO – Half

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

802.11a	
6Mbps	
1 & 3 Meters	
5200MHz	
40	

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10400.00	Peak	н	241	119	-69.15	10.60	0.00	48.45	68.20	-19.75
*	15600.00	Average	Н	-	-	-81.92	16.45	0.00	41.53	53.98	-12.44
*	15600.00	Peak	Н	-	-	-70.01	16.45	0.00	53.44	73.98	-20.53
*	20800.00	Average	Н	-	-	-66.56	3.60	-9.54	34.50	53.98	-19.48
*	20800.00	Peak	Н	-	-	-56.65	3.60	-9.54	44.41	73.98	-29.57
	26000.00	Peak	Н	-	-	-56.89	4.60	-9.54	45.17	68.20	-23.03
				Table 7-2			a ma a má a M				

Table 7-21. Radiated Measurements MIMO – Half

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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 Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10480.00	Peak	Н	-	-	-69.99	11.17	0.00	48.18	68.20	-20.02
*	15720.00	Average	Н	-	-	-82.20	16.72	0.00	41.52	53.98	-12.46
*	15720.00	Peak	н	-	-	-70.37	16.72	0.00	53.35	73.98	-20.63
*	20960.00	Average	н	-	-	-67.36	3.61	-9.54	33.71	53.98	-20.27
*	20960.00	Peak	Н	-	-	-56.81	3.61	-9.54	44.26	73.98	-29.72
	26200.00	Peak	Н	-	-	-56.86	4.72	-9.54	45.32	68.20	-22.88

Table 7-22. Radiated Measurements MIMO – Half

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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	Н	-	-	-70.08	11.63	0.00	48.55	68.20	-19.65
*	15780.00	Average	Н	-	-	-82.22	17.07	0.00	41.85	53.98	-12.13
*	15780.00	Peak	н	-	-	-70.51	17.07	0.00	53.56	73.98	-20.42
*	21040.00	Average	Н	-	-	-67.11	3.71	-9.54	34.06	53.98	-19.92
*	21040.00	Peak	Н	-	-	-56.75	3.71	-9.54	44.42	73.98	-29.56
	26300.00	Peak	Н	-	-	-57.17	4.64	-9.54	44.93	68.20	-23.27

Table 7-23. Radiated Measurements MIMO – Half

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

802.11a
6Mbps
1 & 3 Meters
5280MHz
56

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10560.00	Peak	Н	-	-	-70.15	11.20	0.00	48.05	68.20	-20.15
*	15840.00	Average	Н	-	-	-81.67	16.62	0.00	41.95	53.98	-12.03
*	15840.00	Peak	н	-	-	-70.09	16.62	0.00	53.53	73.98	-20.45
*	21120.00	Average	Н	-	-	-67.06	3.83	-9.54	34.23	53.98	-19.75
*	21120.00	Peak	Н	-	-	-56.79	3.83	-9.54	44.50	73.98	-29.48
	26400.00	Peak	Н	-	-	-57.58	4.68	-9.54	44.55	68.20	-23.65

Table 7-24. Radiated Measurements MIMO – Half

FCC ID: A3LSMF731B		MEASUREMENT REPORT			
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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	Н	-	-	-81.52	11.00	0.00	36.48	53.98	-17.50
*	10640.00	Peak	Н	-	-	-70.12	11.00	0.00	47.88	73.98	-26.10
*	15960.00	Average	Н	-	-	-82.73	18.02	0.00	42.29	53.98	-11.69
*	15960.00	Peak	Н	-	-	-70.57	18.02	0.00	54.45	73.98	-19.53
*	21280.00	Average	Н	-	-	-67.13	3.95	-9.54	34.28	53.98	-19.70
*	21280.00	Peak	Н	-	-	-57.18	3.95	-9.54	44.23	73.98	-29.75
	26600.00	Peak	Н	-	-	-56.96	4.51	-9.54	45.01	68.20	-23.19

Table 7-25. Radiated Measurements MIMO – Half

FCC ID: A3LSMF731B		MEASUREMENT REPORT				
Test Report S/N:	Test Dates:	EUT Type:	Dega 104 of 150			
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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	Н	-	-	-80.69	11.49	0.00	37.80	53.98	-16.18
*	11000.00	Peak	Н	-	-	-68.96	11.49	0.00	49.53	73.98	-24.45
	16500.00	Peak	н	-	-	-69.60	17.69	0.00	55.09	68.20	-13.11
	22000.00	Peak	н	-	-	-57.40	3.86	-9.54	43.91	68.20	-24.29
	27500.00	Peak	Н	-	-	-56.38	4.54	-9.54	45.61	68.20	-22.59

Table 7-26. Radiated Measurements MIMO – Half

Worst Case Mode: Worst Case Transfer Rate: Distance of Measurements: Operating Frequency: Channel: 802.11a 6Mbps 1 & 3 Meters 5600MHz 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	Н	-	-	-81.23	11.66	0.00	37.43	53.98	-16.55
*	11200.00	Peak	Н	-	-	-69.17	11.66	0.00	49.49	73.98	-24.49
	16800.00	Peak	н	-	-	-69.77	18.19	0.00	55.42	68.20	-12.78
*	22400.00	Average	Н	-	-	-66.73	3.86	-9.54	34.58	53.98	-19.40
*	22400.00	Peak	н	-	-	-56.25	3.86	-9.54	45.07	73.98	-28.91
	28000.00	Peak	Н	-	-	-57.16	4.90	-9.54	45.20	68.20	-23.00

Table 7-27. Radiated Measurements MIMO - Half

FCC ID: A3LSMF731B		MEASUREMENT REPORT			
Test Report S/N:	Test Dates:	EUT Type:	Dage 125 of 152		
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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	Н	-	-	-82.49	12.27	0.00	36.78	53.98	-17.20
*	11440.00	Peak	Н	-	-	-69.52	12.27	0.00	49.75	73.98	-24.23
	17160.00	Peak	н	243	231	-65.20	17.32	0.00	59.12	68.20	-9.08
*	22880.00	Average	н	-	-	-66.90	4.09	-9.54	34.65	53.98	-19.33
*	22880.00	Peak	н	-	-	-55.96	4.09	-9.54	45.59	73.98	-28.38
	28600.00	Peak	Н	-	-	-57.52	5.30	-9.54	45.24	68.20	-22.96

Table 7-28. Radiated Measurements MIMO – Half

FCC ID: A3LSMF731B		MEASUREMENT REPORT	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dega 106 of 150	
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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	Н	-	-	-82.21	12.25	0.00	37.04	53.98	-16.94
*	11490.00	Peak	н	-	-	-69.32	12.25	0.00	49.93	73.98	-24.05
	17235.00	Peak	н	287	219	-64.40	17.29	0.00	59.89	68.20	-8.31
*	22980.00	Average	н	-	-	-67.65	4.00	-9.54	33.81	53.98	-20.17
*	22980.00	Peak	н	-	-	-56.57	4.00	-9.54	44.89	73.98	-29.09
	28725.00	Peak	Н	-	-	-58.15	5.36	-9.54	44.67	69.20	-24.53

Table 7-29. Radiated Measurements MIMO – Half

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

802.11a	
6Mbps	
1 & 3 Meters	
5785MHz	
157	

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11570.00	Average	Н	-	-	-81.91	12.14	0.00	37.23	53.98	-16.75
*	11570.00	Peak	Н	-	-	-69.28	12.14	0.00	49.86	73.98	-24.12
	17355.00	Peak	Н	283	226	-62.43	17.66	0.00	62.23	68.20	-5.97
	23140.00	Peak	Н	-	-	-55.97	3.94	-9.54	45.42	68.20	-22.78
	28925.00	Peak	Н	-	-	-57.26	5.33	-9.54	45.53	68.20	-22.67

Table 7-30. Radiated Measurements MIMO - Half

FCC ID: A3LSMF731B		MEASUREMENT REPORT			
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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	н	-	-	-82.35	12.81	0.00	37.46	53.98	-16.52
*	11650.00	Peak	Н	-	-	-69.69	12.81	0.00	50.12	73.98	-23.86
	17475.00	Peak	н	179	203	-59.52	17.23	0.00	64.71	68.20	-3.49
	23300.00	Peak	н	-	-	-56.99	4.04	-9.54	44.51	68.20	-23.69
	29125.00	Peak	Н	-	-	-57.70	5.36	-9.54	45.12	68.20	-23.08

Table 7-31. Radiated Measurements MIMO – Half

FCC ID: A3LSMF731B		MEASUREMENT REPORT			
Test Report S/N:	Test Dates:	EUT Type:	Dage 100 of 150		
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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	Н	-	-	-82.56	12.89	0.00	37.33	53.98	-16.65
*	11690.00	Peak	Н	-	-	-70.25	12.89	0.00	49.64	73.98	-24.34
	17535.00	Peak	н	188	220	-59.75	17.47	0.00	64.72	68.20	-3.48
	23380.00	Peak	н	-	-	-57.36	3.89	-9.54	43.99	68.20	-24.21
	29225.00	Peak	н	-	-	-58.09	5.50	-9.54	44.87	68.20	-23.33

Table 7-32. Radiated Measurements MIMO – Half

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

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11730.00	Average	Н	-	-	-82.33	13.54	0.00	38.21	53.98	-15.77
*	11730.00	Peak	Н	-	-	-70.78	13.54	0.00	49.76	73.98	-24.22
	17595.00	Peak	Н	188	229	-60.32	17.74	0.00	64.42	68.20	-3.78
	23460.00	Peak	Н	-	-	-56.86	4.00	-9.54	44.60	68.20	-23.60
	29325.00	Peak	Н	-	-	-57.29	5.64	-9.54	45.80	68.20	-22.40

Table 7-33. Radiated Measurements MIMO - Half

FCC ID: A3LSMF731B		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	Н	-	-	-82.09	13.54	0.00	38.45	53.98	-15.53
*	11770.00	Peak	н	-	-	-69.70	13.54	0.00	50.84	73.98	-23.14
	17655.00	Peak	н	188	219	-60.75	17.44	0.00	63.69	68.20	-4.51
	23540.00	Peak	н	-	-	-57.21	4.00	-9.54	44.25	68.20	-23.95
	29425.00	Peak	н	-	-	-58.07	5.71	-9.54	45.10	68.20	-23.10

Table 7-34. Radiated Measurements MIMO – Half

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

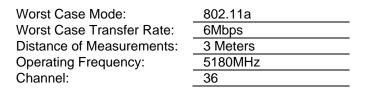
	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11690.00	Average	Н	-	-	-82.43	12.89	0.00	37.46	53.98	-16.52
*	11690.00	Peak	Н	-	-	-70.59	12.89	0.00	49.30	73.98	-24.68
	17535.00	Peak	Н	182	281	-65.22	17.47	0.00	59.25	68.20	-8.95
	23380.00	Peak	Н	-	-	-57.37	3.89	-9.54	43.99	68.20	-24.21
	29225.00	Peak	Н	-	-	-58.14	5.50	-9.54	44.82	68.20	-23.38

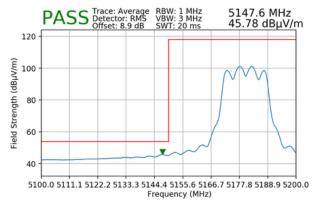
Table 7-35. Radiated Measurements MIMO with WCP – Half

FCC ID: A3LSMF731B		MEASUREMENT REPORT			
Test Report S/N:	Test Dates:	EUT Type:	Dome 120 of 152		
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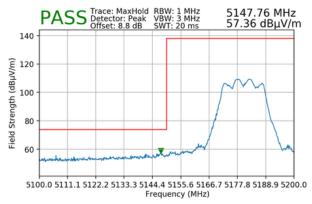


7.6.2 MIMO Radiated Band Edge Measurements (20MHz BW)



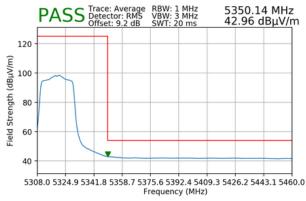


Plot 7-177. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1)

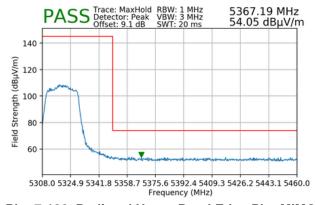


Plot 7-178. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)

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





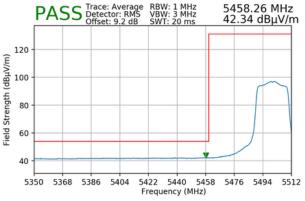




FCC ID: A3LSMF731B		MEASUREMENT REPORT			
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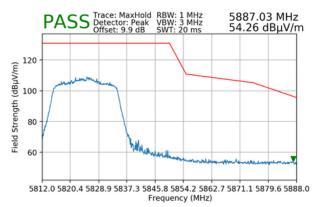


Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5500MHz
Channel:	100



Plot 7-181. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C)

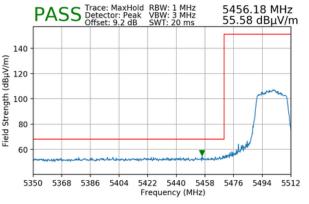
Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5825MHz
Channel:	165



Plot 7-183. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3)

FCC ID: A3LSMF731B	MEASUREMENT REPORT		Approved by: Technical Manager
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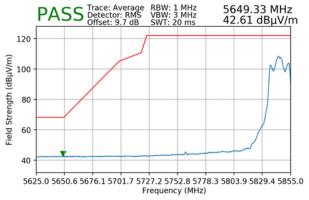
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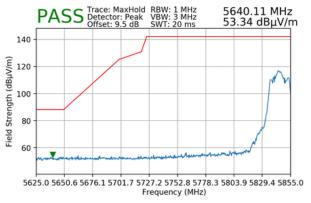


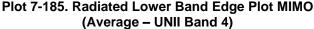
Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5845MHz
Channel:	169

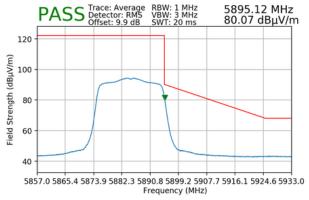


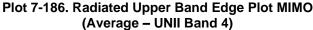
Plot 7-184. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 4)

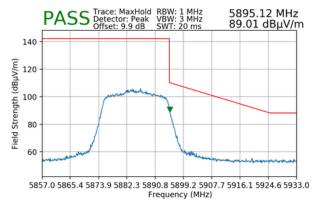
Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5885MHz
Channel:	177









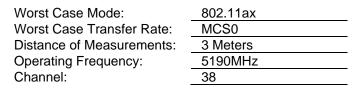


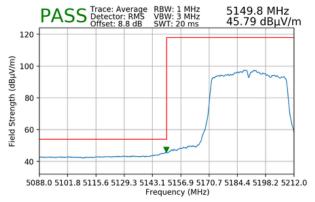
Plot 7-187. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 4)

FCC ID: A3LSMF731B	MEASUREMENT REPORT		Approved by: Technical Manager
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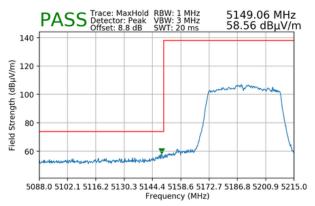


7.6.3 MIMO Radiated Band Edge Measurements (40MHz BW)



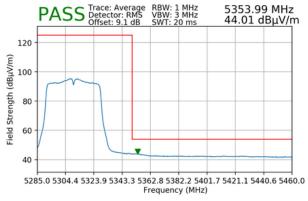


Plot 7-188. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1)

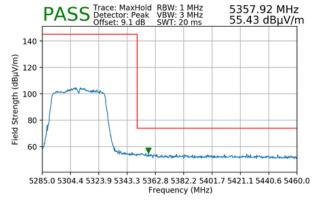


Plot 7-189. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)

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





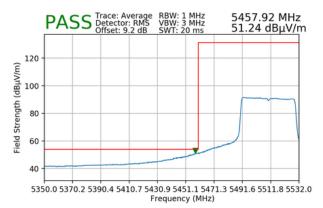




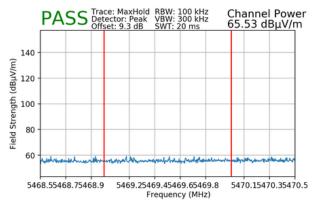
FCC ID: A3LSMF731B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dega 124 of 152
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Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5510MHz
Channel:	102

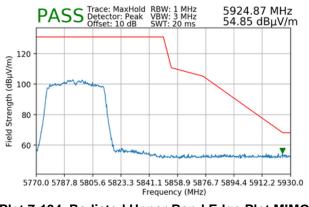


Plot 7-192. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C)



Plot 7-193. 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

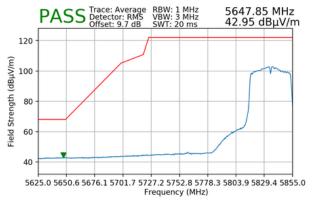


Plot 7-194. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3)

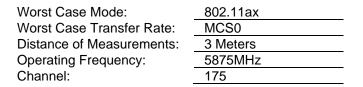
FCC ID: A3LSMF731B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dama 405 at 450
1M2303170032-11.A3L	3/4 - 5/30/2023	Portable Handset	Page 135 of 152
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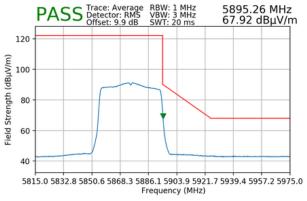


802.11ac
MCS0
3 Meters
5835MHz
167

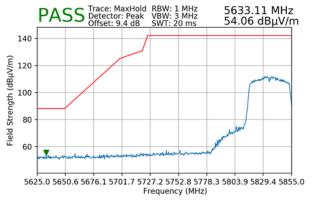


Plot 7-195. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 4)

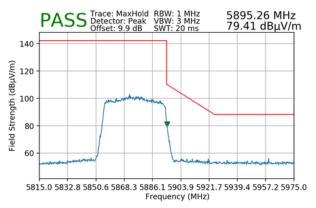










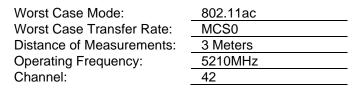


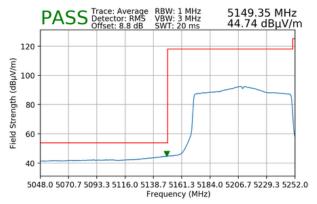
Plot 7-198. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 4)

FCC ID: A3LSMF731B	MEASUREMENT REPORT		Approved by: Technical Manager
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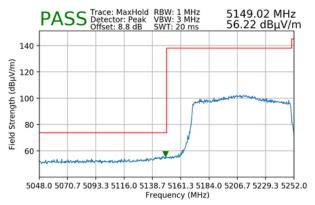


7.6.4 MIMO Radiated Band Edge Measurements (80MHz BW)



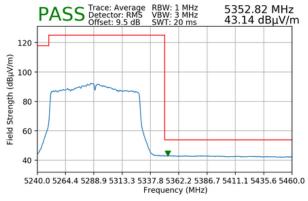


Plot 7-199. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1)

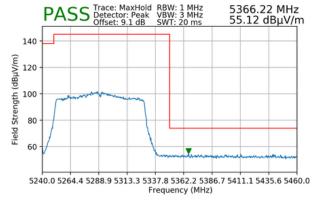


Plot 7-200. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)

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









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