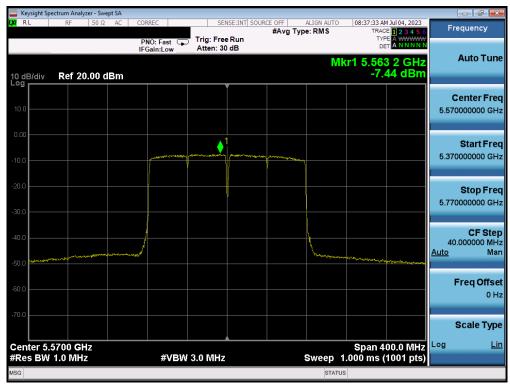


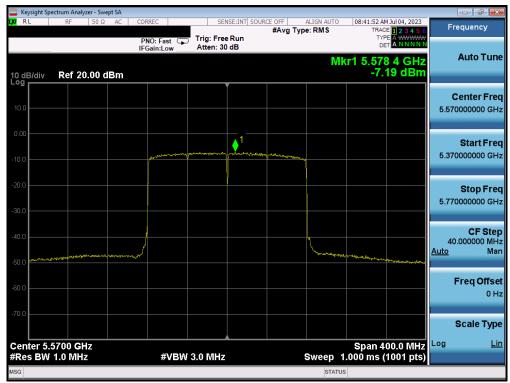
Plot 7-105. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax (UNII Band 2C) - Ch. 122)



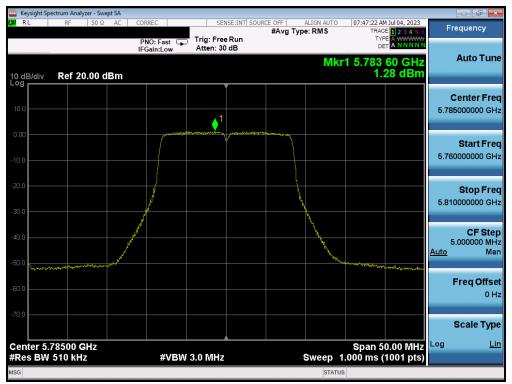
Plot 7-106. Power Spectral Density Plot MIMO ANT1 (160MHz BW 802.11ac (UNII Band 2C) - Ch. 114)

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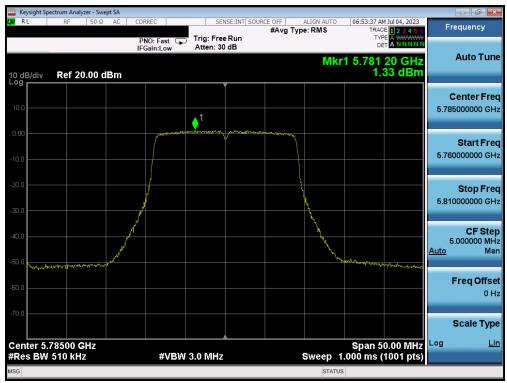
Plot 7-107. Power Spectral Density Plot MIMO ANT1 (160MHz BW 802.11ax (UNII Band 2C) - Ch. 114)



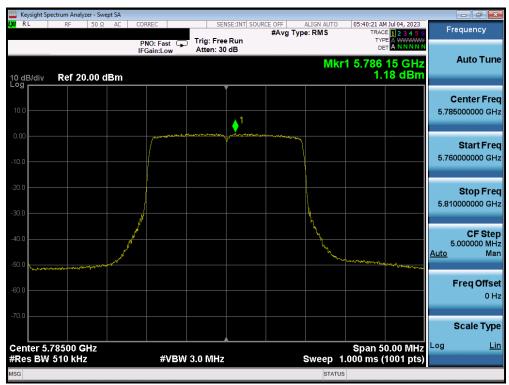
Plot 7-108. Power Spectral Density Plot MIMO ANT1 (802.11a (UNII Band 3) - Ch. 157)

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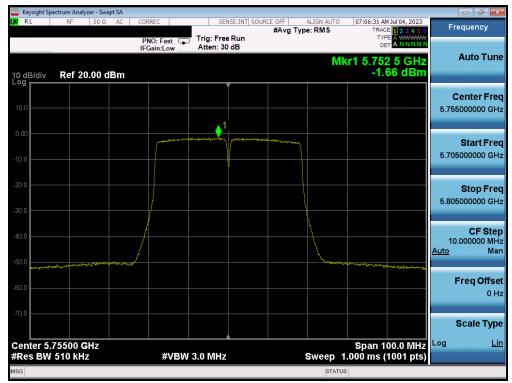
Plot 7-109. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 3) - Ch. 157)



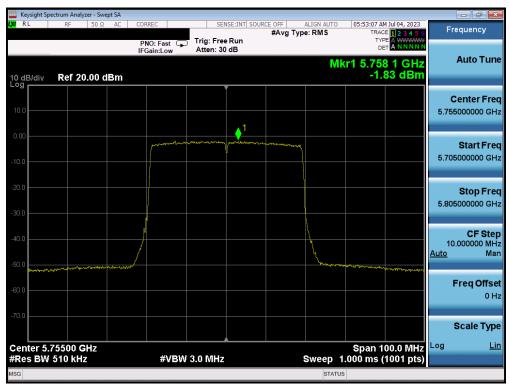
Plot 7-110. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 3) - Ch. 157)

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



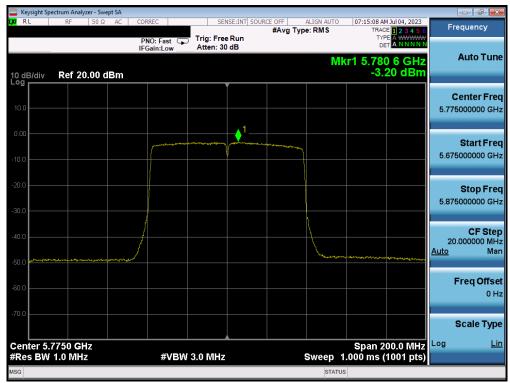
Plot 7-112. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax (UNII Band 3) - Ch. 151)

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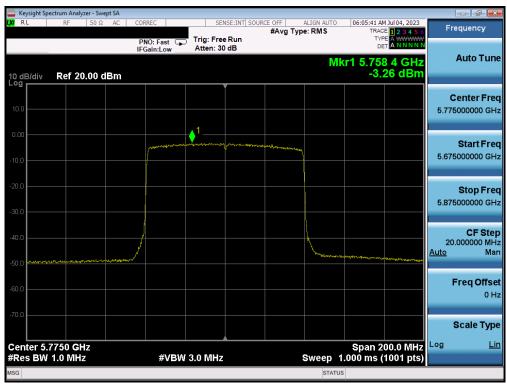
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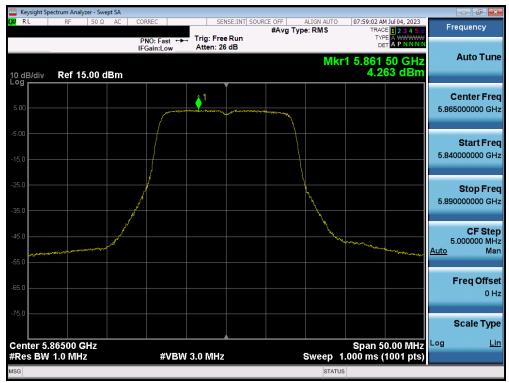
Plot 7-113. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ac (UNII Band 3) - Ch. 155)



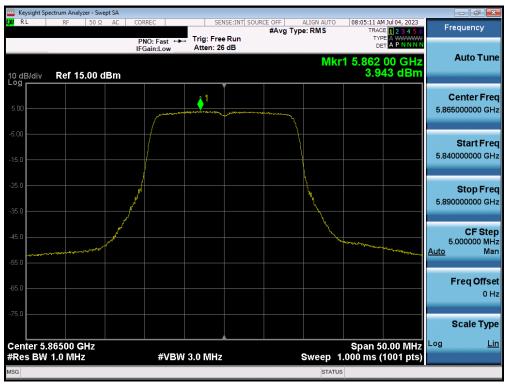
Plot 7-114. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax (UNII Band 3) - Ch. 155)

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



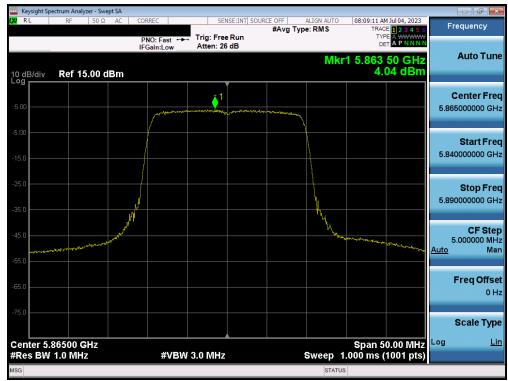
Plot 7-116. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 4) - Ch. 173)

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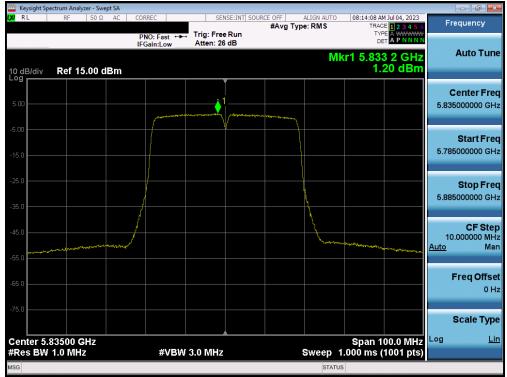
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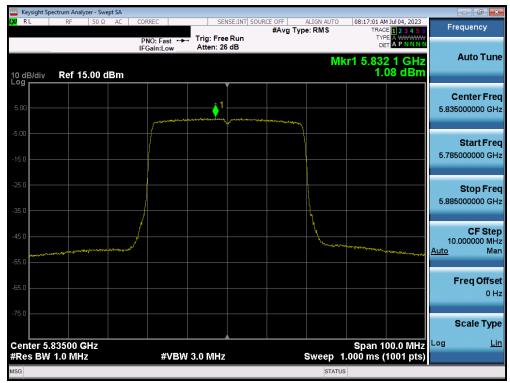
Plot 7-117. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 4) - Ch. 173)



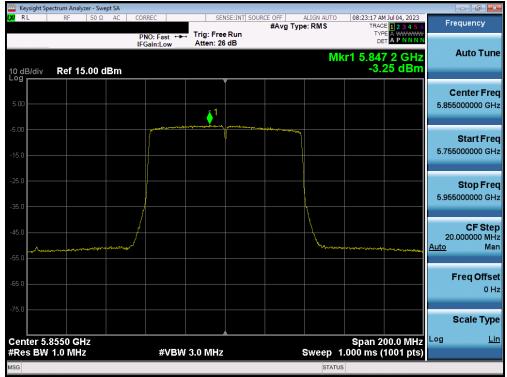
Plot 7-118. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11n (UNII Band 3/4) - Ch. 167)

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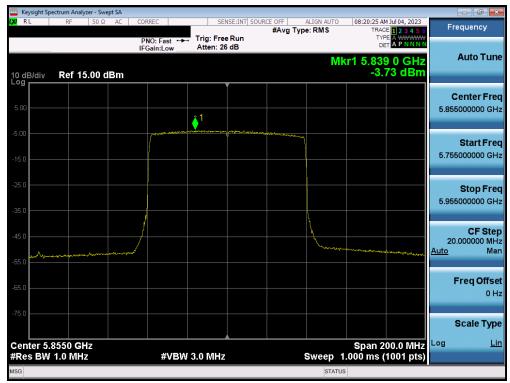
Plot 7-119. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax (UNII Band 3/4) - Ch. 167)



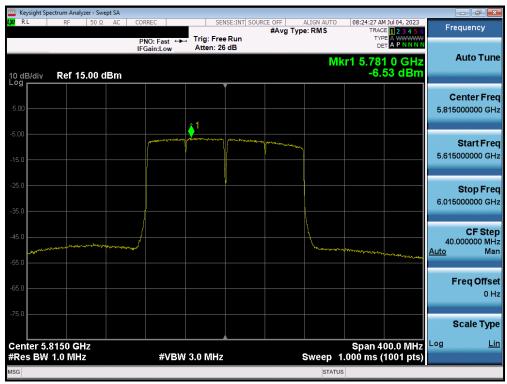
Plot 7-120. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ac (UNII Band 3/4) - Ch. 171)

FCC ID: A3LSMS711B	MEASUREMENT REPORT		Approved by: Technical Manager
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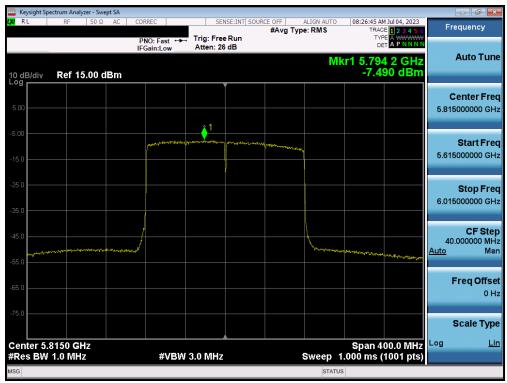
Plot 7-121. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax (UNII Band 3/4) - Ch. 171)



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

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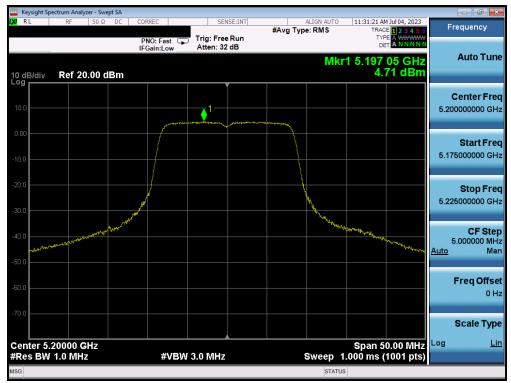


Plot 7-123. Power Spectral Density Plot MIMO ANT1 (160MHz BW 802.11ax (UNII Band 3/4) - Ch. 163)

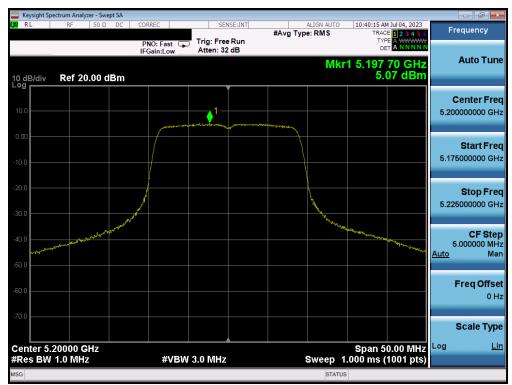
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7.5.3 MIMO Antenna-2 Power Spectral Density Measurements



Plot 7-124. Power Spectral Density Plot MIMO ANT2 (802.11a (UNII Band 1) - Ch. 40)



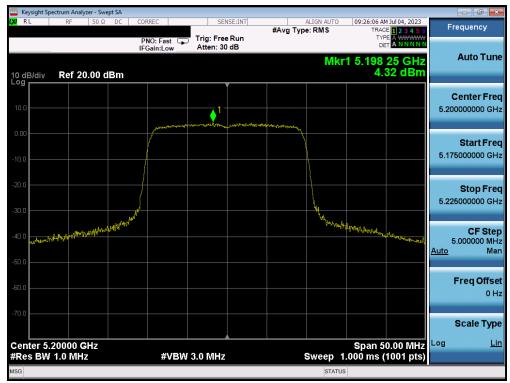
Plot 7-125. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 1) - Ch. 40)

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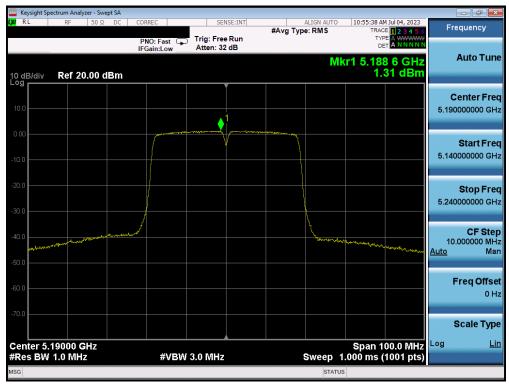
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Plot 7-126. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 1) - Ch. 40)



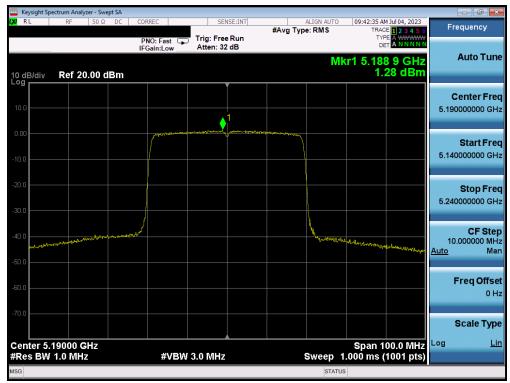
Plot 7-127. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 1) - Ch. 38)

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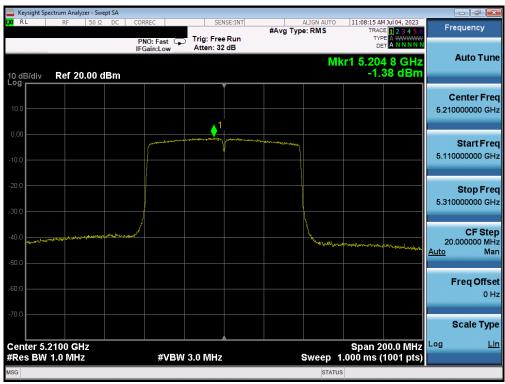
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Plot 7-128. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 1) - Ch. 38)



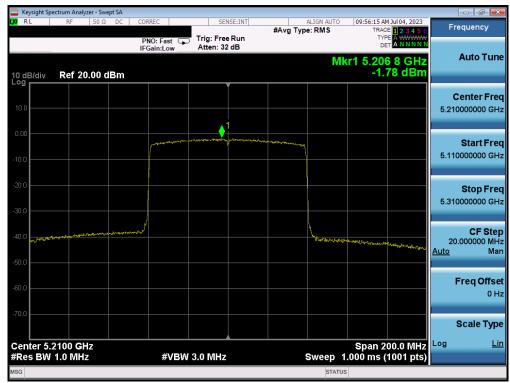
Plot 7-129. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ac (UNII Band 1) - Ch. 42)

FCC ID: A3LSMS711B	MEASUREMENT REPORT		Approved by: Technical Manager
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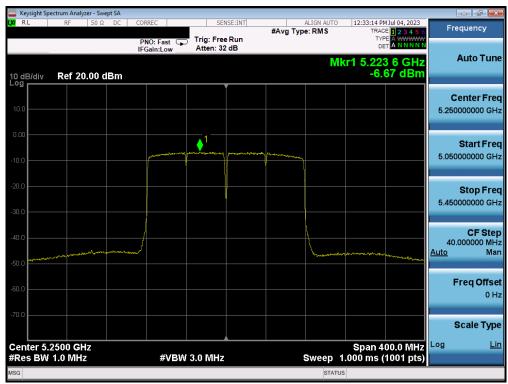
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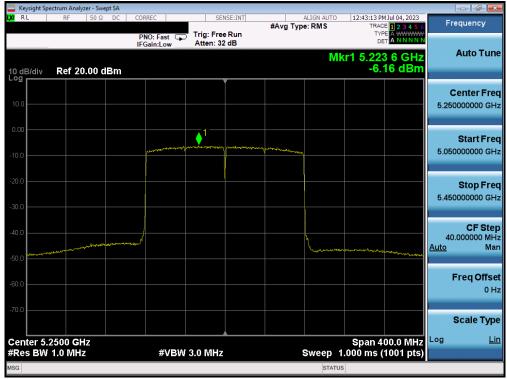
Plot 7-130. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax (UNII Band 1) - Ch. 42)



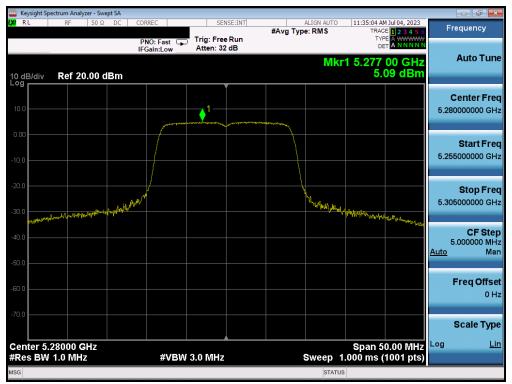
Plot 7-131. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802.11ac (UNII Band 1/2A) - Ch. 50)

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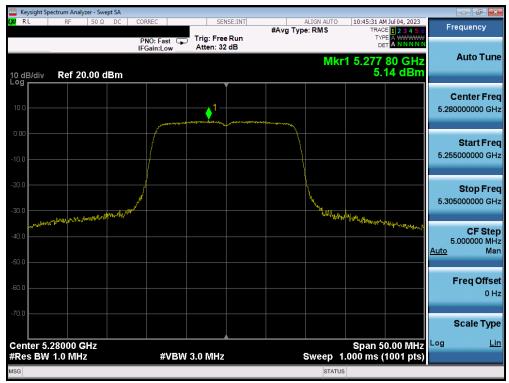
Plot 7-132. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802.11ax (UNII Band 1/2A) - Ch. 50)



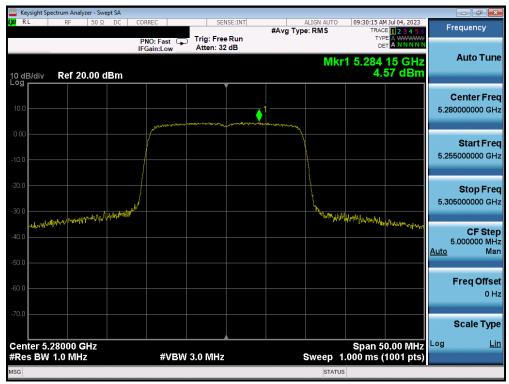
Plot 7-133. Power Spectral Density Plot MIMO ANT2 (802.11a (UNII Band 2A) - Ch. 56)

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

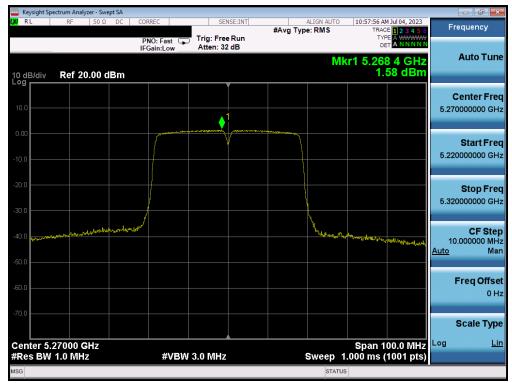


Plot 7-135. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 2A) - Ch. 56)

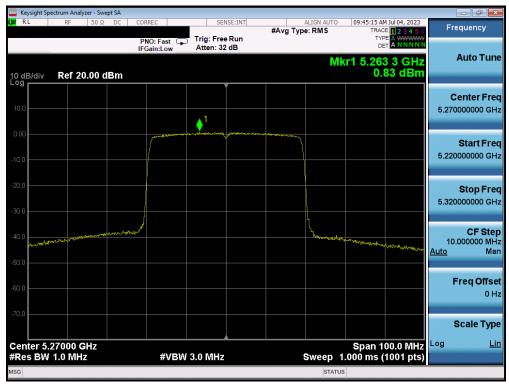
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Plot 7-136. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 2A) - Ch. 54)



Plot 7-137. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 2A) - Ch. 54)

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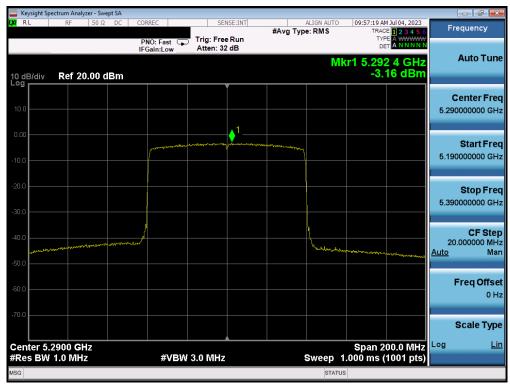
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Plot 7-138. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ac (UNII Band 2A) - Ch. 58)



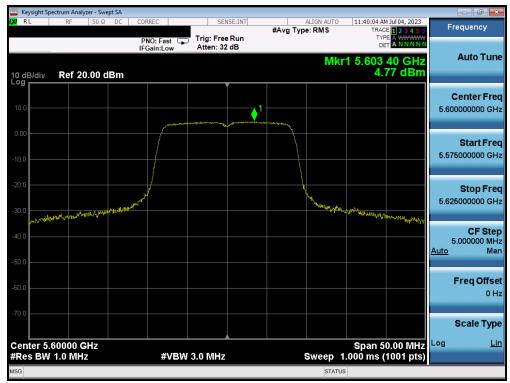
Plot 7-139. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax (UNII Band 2A) - Ch. 58)

FCC ID: A3LSMS711B	MEASUREMENT REPORT		Approved by: Technical Manager
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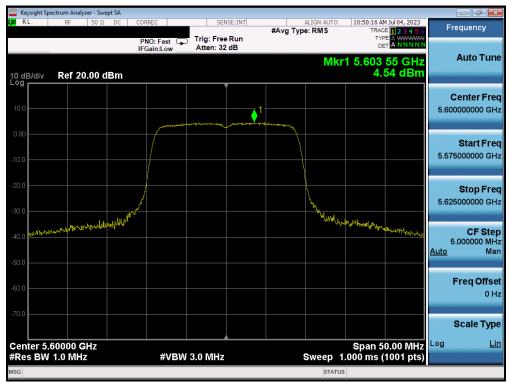
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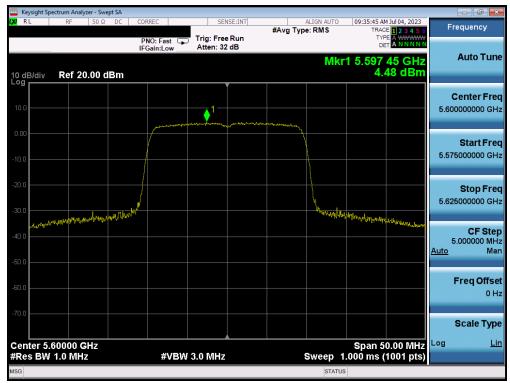
Plot 7-140. Power Spectral Density Plot MIMO ANT2 (802.11a (UNII Band 2C) - Ch. 120)



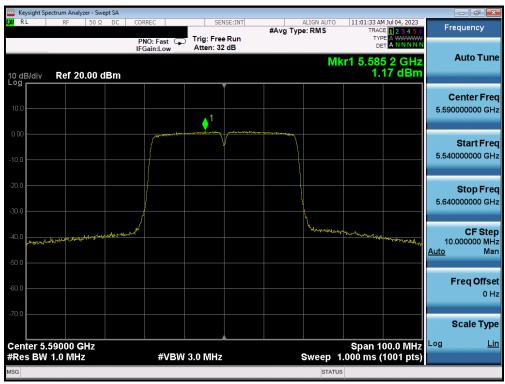
Plot 7-141. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 2C) - Ch. 120)

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Plot 7-142. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 2C) - Ch. 120)

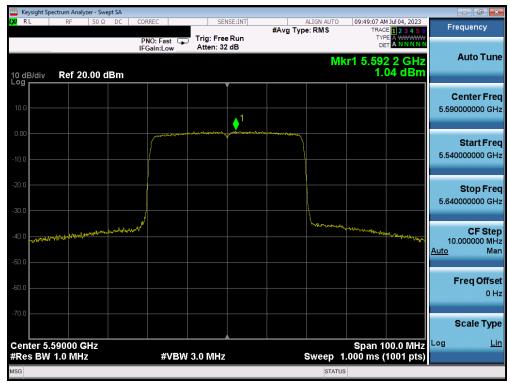


Plot 7-143. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 2C) - Ch. 118)

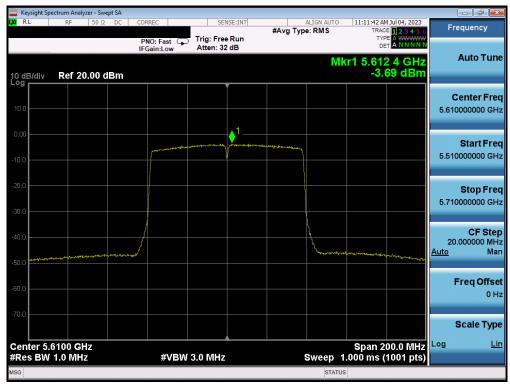
FCC ID: A3LSMS711B	MEASUREMENT REPORT		Approved by: Technical Manager
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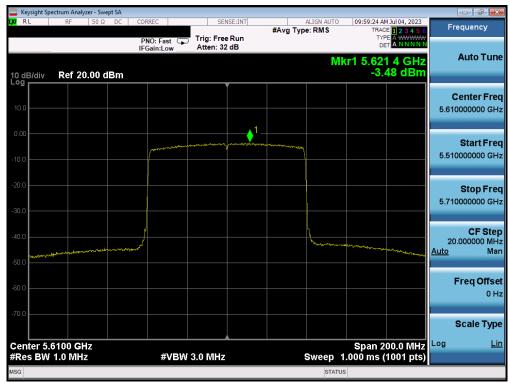
Plot 7-144. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 2C) - Ch. 118)



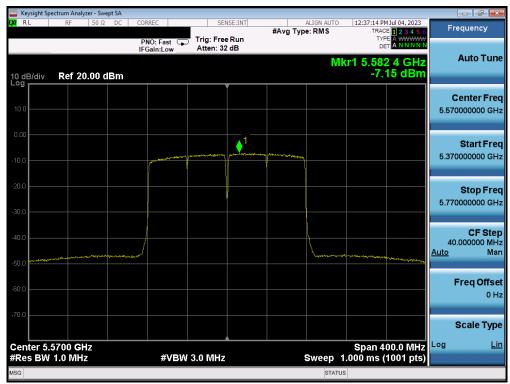
Plot 7-145. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ac (UNII Band 2C) - Ch. 122)

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Plot 7-146. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax (UNII Band 2C) - Ch. 122)

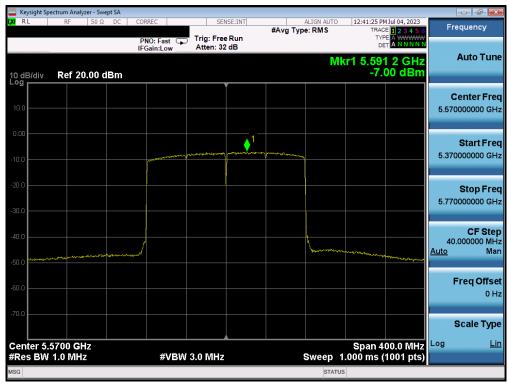


Plot 7-147. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802.11ac (UNII Band 2C) - Ch. 114)

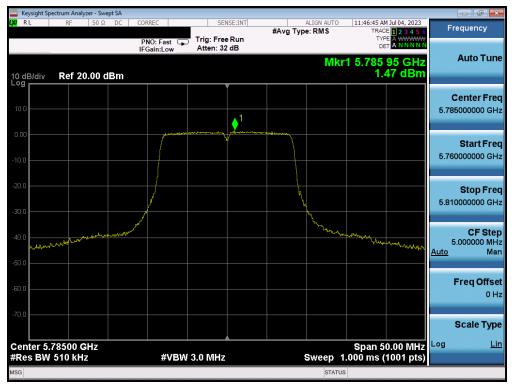
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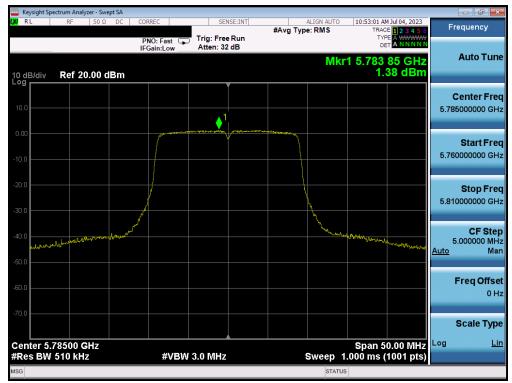
Plot 7-148. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802.11ax (UNII Band 2C) - Ch. 114)



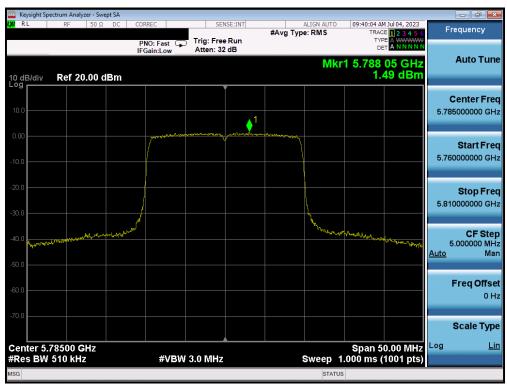
Plot 7-149. Power Spectral Density Plot MIMO ANT2 (802.11a (UNII Band 3) - Ch. 157)

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

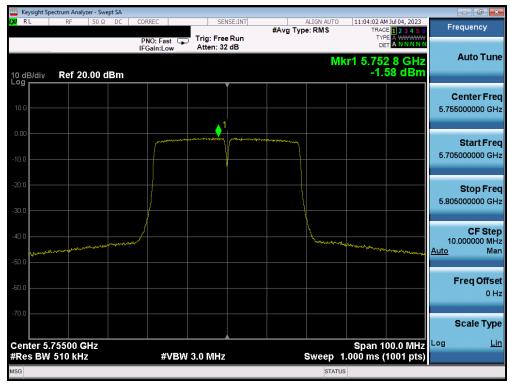


Plot 7-151. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 3) - Ch. 157)

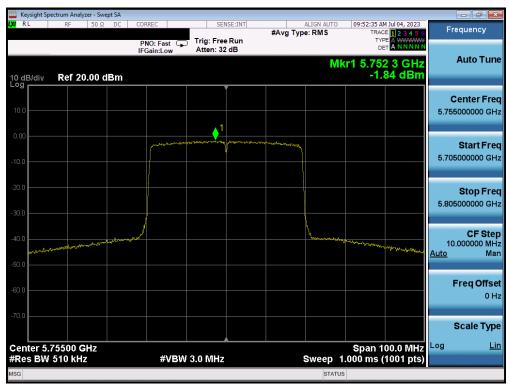
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Plot 7-152. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 3) - Ch. 151)

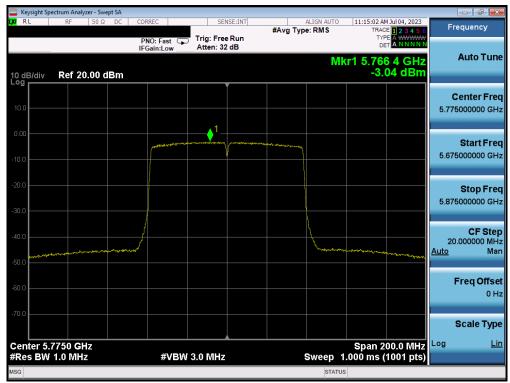


Plot 7-153. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 3) - Ch. 151)

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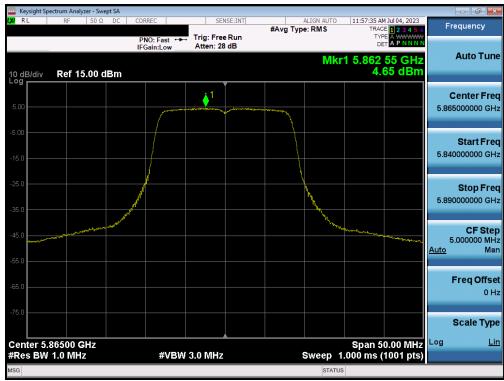
Plot 7-154. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ac (UNII Band 3) - Ch. 155)



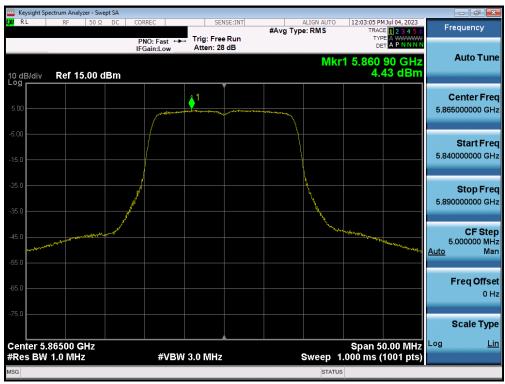
Plot 7-155. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax (UNII Band 3) - Ch. 155)

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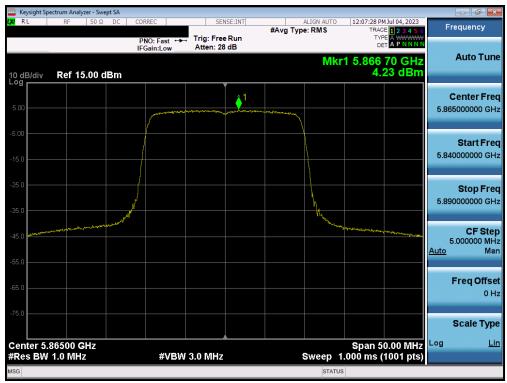
Plot 7-156. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11a (UNII Band 4) - Ch. 173)



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

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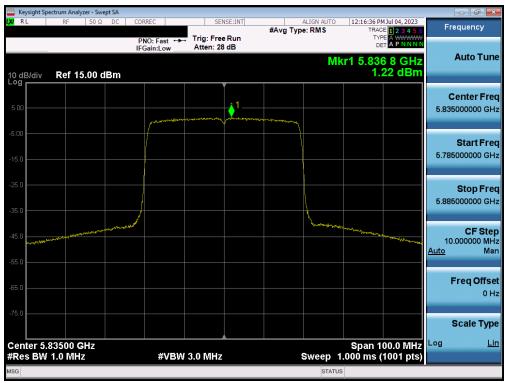
Plot 7-158. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 4) - Ch. 173)



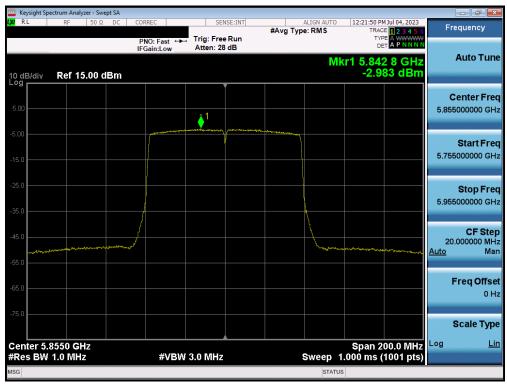
Plot 7-159. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 3/4) - Ch. 167)

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Plot 7-160. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 3/4) - Ch. 167)



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

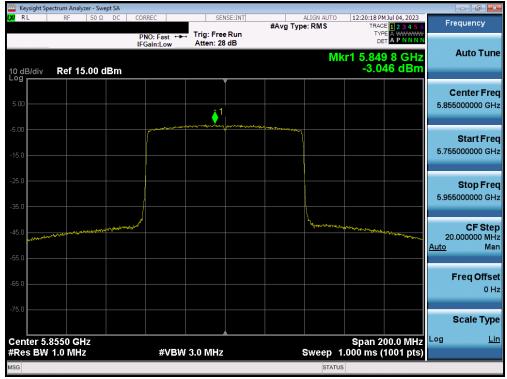
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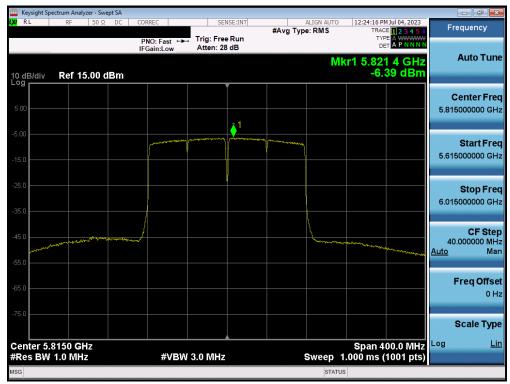
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Plot 7-162. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax (UNII Band 3/4) - Ch. 171)



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

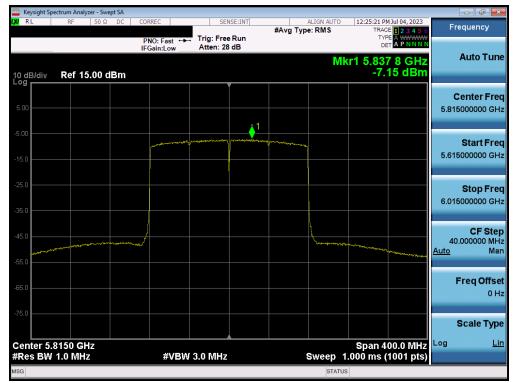
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Plot 7-164. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802.11ax (UNII Band 3/4) - Ch. 163)

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 4.45 dBm for Antenna 1 and 5.01 dBm for Antenna 2.

$$(4.45 \text{ dBm} + 5.18 \text{ dBm}) = (2.79 \text{ mW} + 3.17 \text{ mW}) = 5.96 \text{ mW} = 7.74 \text{ dBm}$$

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 7.74 dBm with directional gain of -0.46 dBi.

$$7.74 \text{ dBm} + -0.46 \text{ dBi} = 6.28 \text{ dBm}$$

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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

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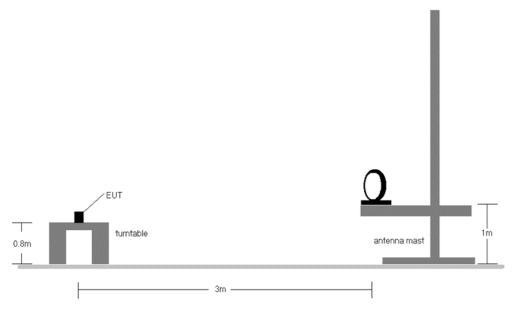


Figure 7-5. Radiated Test Setup < 30MHz

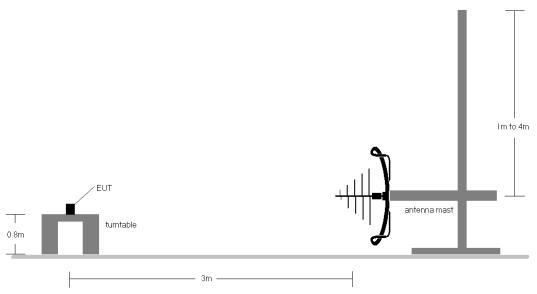


Figure 7-6. Radiated Test Setup < 1GHz

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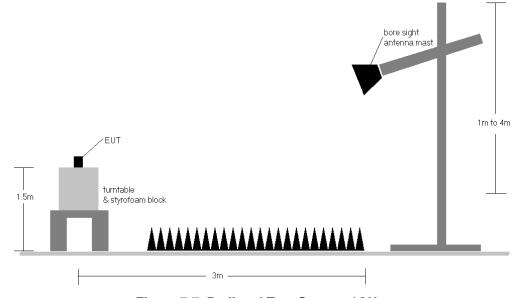


Figure 7-7. Radiated Test Setup > 1GHz

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

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Radiated Band Edge Measurement Offset

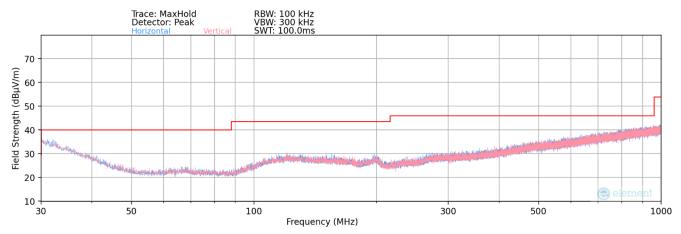
 The amplitude offset shown in the radiated restricted band edge plots was calculated using the formula:

Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) - Preamplifier Gai

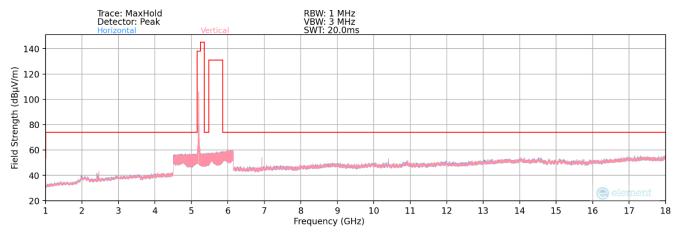
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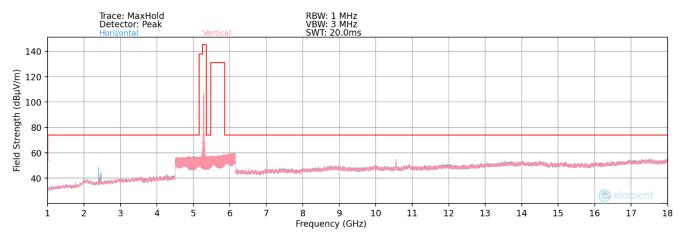
7.6.1 MIMO Radiated Spurious Emission Measurements



Plot 7-165. Radiated Spurious Plot below 1GHz MIMO (802.11a)



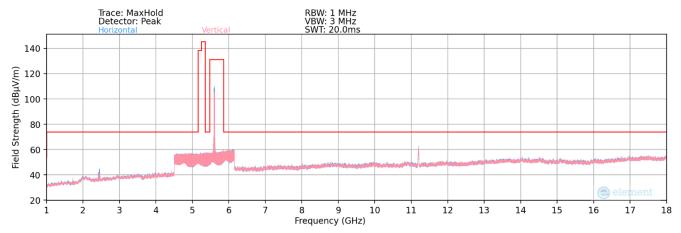
Plot 7-166. Radiated Spurious Plot above 1GHz MIMO (802.11a - UNII Band 1 Ch. 40)



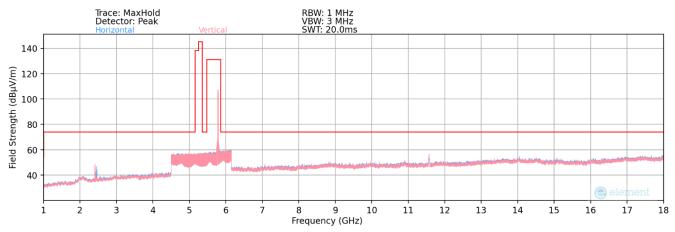
Plot 7-167. Radiated Spurious Plot above 1GHz MIMO (802.11a - UNII Band 2A Ch. 56)

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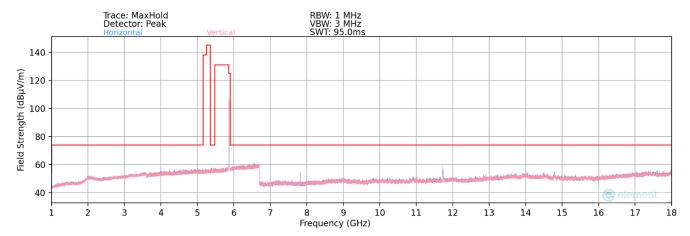




Plot 7-168. Radiated Spurious Plot above 1GHz MIMO (802.11a – UNII Band 2C Ch. 120)



Plot 7-169. Radiated Spurious Plot above 1GHz MIMO (802.11a – UNII Band 3 Ch. 157)

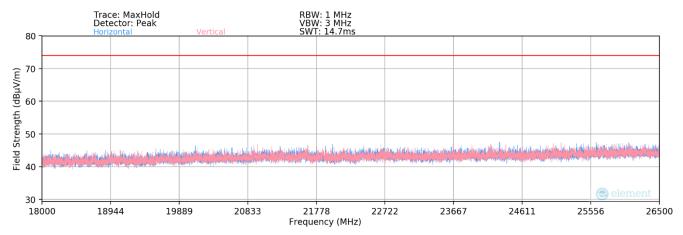


Plot 7-170. Radiated Spurious Plot above 1GHz MIMO (802.11a - UNII Band 4 Ch. 173)

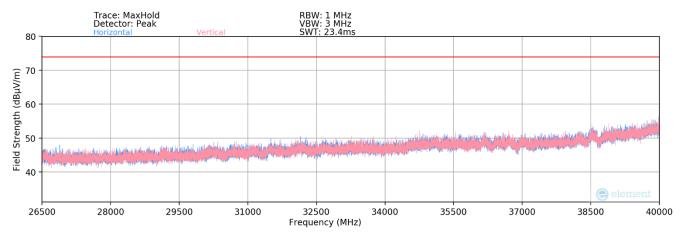
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Plot 7-171. Radiated Spurious Plot 18GHz - 26.5GHz MIMO (802.11a)



Plot 7-172. Radiated Spurious Plot 26.5GHz - 40GHz MIMO (802.11a)

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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]
	6906.50	Peak	Н	113	326	-61.90	13.73	0.00	58.83	68.20	-9.37
	10360.00	Peak	Н	207	66	-62.01	11.65	0.00	56.64	68.20	-11.56
*	15540.00	Average	Н	221	43	-79.75	14.50	0.00	41.75	53.98	-12.23
*	15540.00	Peak	Н	221	43	-68.33	14.50	0.00	53.17	73.98	-20.81
*	20720.00	Average	Н	150	35	-63.17	3.50	-9.54	37.80	53.98	-16.18
*	20720.00	Peak	Н	150	35	-55.15	3.50	-9.54	45.81	73.98	-28.17
	25900.00	Peak	Н	-	-	-56.31	4.57	-9.54	45.72	68.20	-22.48

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 Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	6933.00	Peak	Н	146	324	-62.76	13.81	0.00	58.05	68.20	-10.15
	10400.00	Peak	Ι	114	49	-62.17	11.68	0.00	56.51	68.20	-11.69
*	15600.00	Average	Н	-	-	-80.20	14.41	0.00	41.21	53.98	-12.77
*	15600.00	Peak	Ι	-	-	-68.65	14.41	0.00	52.76	73.98	-21.22
*	20800.00	Average	Ι	150	35	-63.31	3.60	-9.54	37.75	53.98	-16.23
*	20800.00	Peak	Н	150	35	-56.23	3.60	-9.54	44.83	73.98	-29.15
	26000.00	Peak	Н	-	-	-56.22	4.60	-9.54	45.84	68.20	-22.36

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 Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	6986.50	Peak	Н	138	323	-63.93	14.17	0.00	57.24	68.20	-10.96
	10480.00	Peak	Н	239	51	-60.29	12.23	0.00	58.94	68.20	-9.26
*	15720.00	Average	Н	182	66	-80.03	14.54	0.00	41.51	53.98	-12.47
*	15720.00	Peak	Н	182	66	-68.24	14.54	0.00	53.30	73.98	-20.68
*	20960.00	Average	Н	150	35	-63.42	3.61	-9.54	37.64	53.98	-16.34
*	20960.00	Peak	Н	150	35	-55.67	3.61	-9.54	45.40	73.98	-28.58
	26200.00	Peak	Н	-	-	-56.64	4.72	-9.54	45.54	68.20	-22.66

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]
	7013.50	Peak	Н	135	323	-65.47	14.78	0.00	56.31	68.20	-11.89
	10520.00	Peak	Н	116	312	-59.68	12.69	0.00	60.01	68.20	-8.19
*	15780.00	Average	Н	116	40	-80.15	14.92	0.00	41.77	53.98	-12.21
*	15780.00	Peak	Н	116	40	-67.66	14.92	0.00	54.26	73.98	-19.72
*	21040.00	Average	Н	150	37	-63.57	3.71	-9.54	37.60	53.98	-16.38
*	21040.00	Peak	Н	150	37	-55.19	3.71	-9.54	45.98	73.98	-28.00
	26300.00	Peak	Н	-	-	-55.99	4.64	-9.54	46.11	68.20	-22.09

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	Н	124	328	-65.52	14.98	0.00	56.46	68.20	-11.74
	10560.00	Peak	Н	151	314	-58.86	12.25	0.00	60.39	68.20	-7.81
*	15840.00	Average	Н	115	29	-79.22	14.51	0.00	42.29	53.98	-11.69
*	15840.00	Peak	Н	115	29	-66.99	14.51	0.00	54.52	73.98	-19.46
*	21120.00	Average	Н	150	38	-63.90	3.83	-9.54	37.39	53.98	-16.59
*	21120.00	Peak	Н	150	38	-55.78	3.83	-9.54	45.51	73.98	-28.47
	26400.00	Peak	Н	-	-	-56.22	4.68	-9.54	45.91	68.20	-22.29

Table 7-27. Radiated Measurements MIMO

FCC ID: A3LSMS711B		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]
	7093.00	Peak	Н	128	322	-66.55	14.03	0.00	54.48	68.20	-13.72
*	10640.00	Average	Н	234	310	-70.87	12.01	0.00	48.14	53.98	-5.84
*	10640.00	Peak	Н	234	310	-56.84	12.01	0.00	62.17	73.98	-11.81
*	15960.00	Average	Н	169	37	-80.35	15.87	0.00	42.52	53.98	-11.46
*	15960.00	Peak	П	169	37	-68.49	15.87	0.00	54.38	73.98	-19.60
*	21280.00	Average	Н	150	38	-63.75	3.95	-9.54	37.66	53.98	-16.32
*	21280.00	Peak	Н	150	38	-55.06	3.95	-9.54	46.35	73.98	-27.63
	26600.00	Peak	Н	-	-	-56.09	4.51	-9.54	45.88	68.20	-22.32

Table 7-28. Radiated Measurements MIMO

FCC ID: A3LSMS711B		MEASUREMENT REPORT	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dogo 125 of 151	
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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	210	338	-68.18	12.13	0.00	50.95	53.98	-3.03
*	11000.00	Peak	Н	210	338	-55.71	12.13	0.00	63.42	73.98	-10.56
	16500.00	Peak	Н	-	-	-68.29	16.13	0.00	54.84	68.20	-13.36
	22000.00	Peak	Н	150	41	-54.02	3.86	-9.54	47.29	68.20	-20.91
	27500.00	Peak	Н	-	-	-56.79	4.54	-9.54	45.20	68.20	-23.00

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	Н	219	297	-68.32	12.24	0.00	50.92	53.98	-3.06
*	11200.00	Peak	Н	219	297	-56.01	12.24	0.00	63.23	73.98	-10.75
	16800.00	Peak	Н	-	-	-68.65	16.46	0.00	54.81	68.20	-13.39
*	22320.00	Average	Н	150	38	-61.35	3.86	-9.54	39.96	53.98	-14.02
*	22320.00	Peak	Н	150	38	-54.06	3.86	-9.54	47.26	73.98	-26.72
	27920.00	Peak	Н	-	-	-56.98	4.90	-9.54	45.38	68.20	-22.82

Table 7-30. Radiated Measurements MIMO

FCC ID: A3LSMS711B		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	Н	325	301	-72.47	12.95	0.00	47.48	53.98	-6.50
*	11440.00	Peak	Н	325	301	-60.42	12.95	0.00	59.53	73.98	-14.45
	17160.00	Peak	Н	168	88	-68.28	16.76	0.00	55.48	68.20	-12.72
*	22880.00	Average	Н	150	320	-63.58	4.09	-9.54	37.97	53.98	-16.01
*	22880.00	Peak	Н	150	320	-55.48	4.09	-9.54	46.07	73.98	-27.91
	28600.00	Peak	Н	-	-	-56.60	5.30	-9.54	46.16	68.20	-22.04

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	Н	149	359	-68.60	12.13	0.00	50.53	53.98	-3.45
*	11000.00	Peak	Н	149	359	-56.32	12.13	0.00	62.81	73.98	-11.17
	16500.00	Peak	Н	-	-	-68.55	16.13	0.00	54.58	68.20	-13.62
	22000.00	Peak	Н	150	82	-56.07	3.86	-9.54	45.25	68.20	-22.95
	27500.00	Peak	Н	-	-	-56.85	4.54	-9.54	45.15	68.20	-23.05

Table 7-32. Radiated Measurements MIMO with WCP

FCC ID: A3LSMS711B		MEASUREMENT REPORT	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dogo 127 of 151	
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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	272	298	-71.88	12.89	0.00	48.01	53.98	-5.97
*	11490.00	Peak	Н	272	298	-59.64	12.89	0.00	60.25	73.98	-13.73
	17235.00	Peak	Н	-	-	-68.88	16.94	0.00	55.06	68.20	-13.14
*	22980.00	Average	Н	150	320	-62.92	4.00	-9.54	38.54	53.98	-15.44
*	22980.00	Peak	Н	150	320	-55.05	4.00	-9.54	46.41	73.98	-27.56
	28725.00	Peak	Н	-	-	-56.83	5.36	-9.54	45.99	69.20	-23.21

Table 7-33. Radiated Measurements MIMO

Worst Case Mode: 802.11a Worst Case Transfer Rate: 6Mbps 1 & 3 Meters Distance of Measurements: 5785MHz Operating Frequency: Channel: 157

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11570.00	Average	Н	282	304	-70.25	12.68	0.00	49.43	53.98	-4.55
*	11570.00	Peak	Н	282	304	-58.51	12.68	0.00	61.17	73.98	-12.81
	17355.00	Peak	Н	-	-	-69.10	17.64	0.00	55.54	68.20	-12.66
	23140.00	Peak	Н	150	322	-54.95	3.94	-9.54	46.45	68.20	-21.75
	28925.00	Peak	Н	-	-	-56.28	5.33	-9.54	46.51	68.20	-21.69

Table 7-34. Radiated Measurements MIMO

FCC ID: A3LSMS711B		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]
	7766.50	Peak	I	150	303	-66.67	16.04	0.00	56.37	68.20	-11.83
*	11650.00	Average	Н	232	312	-71.74	13.21	0.00	48.47	53.98	-5.51
*	11650.00	Peak	Н	232	312	-59.96	13.21	0.00	60.25	73.98	-13.73
	17475.00	Peak	Н	-	-	-68.90	17.12	0.00	55.22	68.20	-12.98
	23300.00	Peak	Н	150	28	-55.84	4.04	-9.54	45.65	68.20	-22.55
	29125.00	Peak	Н	-	-	-56.41	5.36	-9.54	46.41	68.20	-21.79

Table 7-35. Radiated Measurements MIMO

FCC ID: A3LSMS711B		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]
	7793.50	Average	Н	126	303	-66.50	15.94	0.00	56.44	68.20	-11.76
*	11690.00	Average	Н	228	329	-71.65	13.23	0.00	48.58	53.98	-5.40
*	11690.00	Peak	Н	228	329	-58.70	13.23	0.00	61.53	73.98	-12.45
	17535.00	Peak	Н	-	-	-68.12	17.25	0.00	56.13	68.20	-12.07
	23380.00	Peak	Н	150	359	-55.96	3.89	-9.54	45.40	68.20	-22.80
	29225.00	Peak	Н	-	-	-56.26	5.50	-9.54	46.70	68.20	-21.50

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	Н	144	306	-65.52	15.62	0.00	57.10	68.20	-11.10
*	11730.00	Average	Н	222	330	-72.95	13.85	0.00	47.90	53.98	-6.08
*	11730.00	Peak	Н	222	330	-61.33	13.85	0.00	59.52	73.98	-14.46
	17595.00	Peak	Н	-	-	-68.99	17.42	0.00	55.43	68.20	-12.77
	23460.00	Peak	Н	150	317	-56.32	4.00	-9.54	45.14	68.20	-23.06
	29325.00	Peak	Н	-	-	-56.75	5.64	-9.54	46.35	68.20	-21.85

Table 7-37. Radiated Measurements MIMO

FCC ID: A3LSMS711B		Approved by: Technical Manager	
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Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:

Operating Frequency:

Channel:

802.11a

6Mbps

1 & 3 Meters

5885MHz

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]
	7846.50	Peak	Н	141	308	-66.79	15.58	0.00	55.79	68.20	-12.41
*	11770.00	Average	Н	233	312	-72.48	13.84	0.00	48.36	53.98	-5.62
*	11770.00	Peak	Н	233	312	-60.12	13.84	0.00	60.72	73.98	-13.26
	17655.00	Peak	Н	-	-	-68.87	17.06	0.00	55.19	68.20	-13.01
	23540.00	Peak	Н	150	319	-55.48	4.00	-9.54	45.99	68.20	-22.21
	29425.00	Peak	Н	-	-	-57.42	5.71	-9.54	45.74	68.20	-22.46

Table 7-38. Radiated Measurements MIMO

FCC ID: A3LSMS711B		Approved by: Technical Manager	
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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:

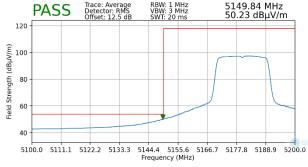
802.11ac

MCS0

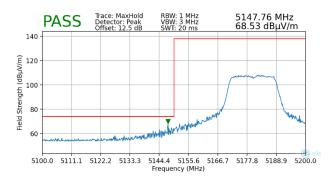
3 Meters

5180MHz

36



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



Plot 7-174. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)

Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:

Operating Frequency:

Channel:

802.11n

MCS8

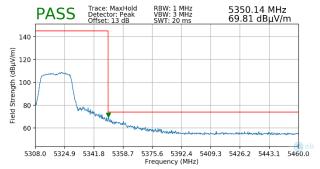
3 Meters

5320MHz

64



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



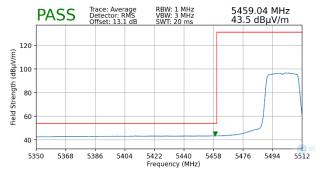
Plot 7-176. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A)

FCC ID: A3LSMS711B		Approved by: Technical Manager	
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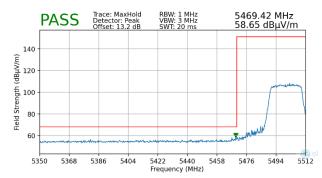


Worst Case Mode: 802.
Worst Case Transfer Rate: MCS
Distance of Measurements: 3 Me
Operating Frequency: 5500
Channel: 100

802.11ax
MCS0
3 Meters
5500MHz
100



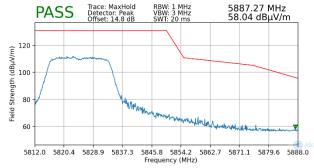
Plot 7-177. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C)



Plot 7-178. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C)

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

802.11ac
MCS0
3 Meters
5825MHz
165



Plot 7-179. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3)

FCC ID: A3LSMS711B		Approved by: Technical Manager	
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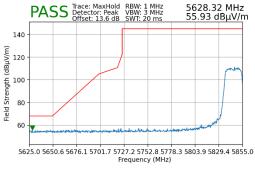
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Worst Case Mode: 802.11
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Mete
Operating Frequency: 5845M
Channel: 169

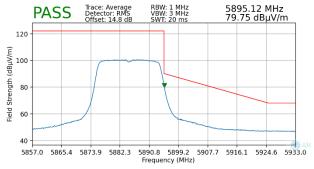
802.11ax
MCS0
3 Meters
5845MHz
169



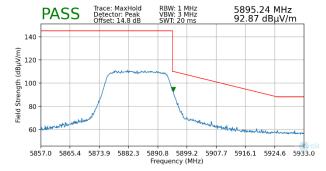
Plot 7-180. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 4)

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

802.11ax MCS0 3 Meters 5885MHz 177



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



Plot 7-182. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 4)

FCC ID: A3LSMS711B		Approved by: Technical Manager	
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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:

802.11ax

MCS0

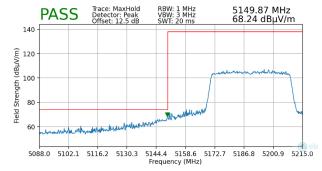
3 Meters

5190MHz

38



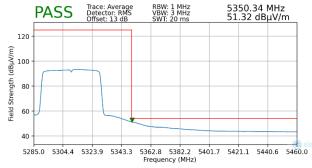
Plot 7-183. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1)



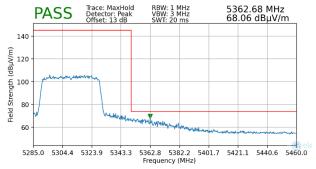
Plot 7-184. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)

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

802.11ax
MCS0
3 Meters
5310MHz
62



Plot 7-185. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A)



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

FCC ID: A3LSMS711B		Approved by: Technical Manager	
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Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:
Operating Frequency:

Channel:

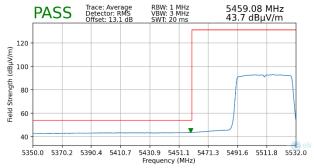
802.11ax

MCS0

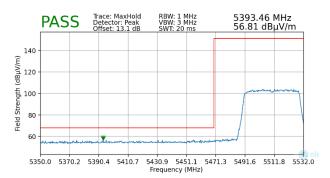
3 Meters

5510MHz

102



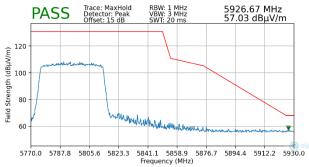
Plot 7-187. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C)



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

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

802.11ac
MCS0
3 Meters
5795MHz
159



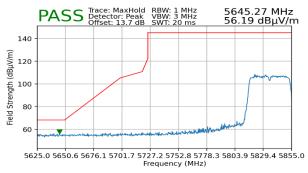
Plot 7-189. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3)

FCC ID: A3LSMS711B	MEASUREMENT REPORT		Approved by: Technical Manager
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Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

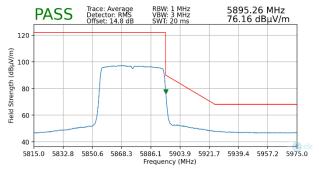
802.11ax	
MCS0	
3 Meters	
5835MHz	_
167	_



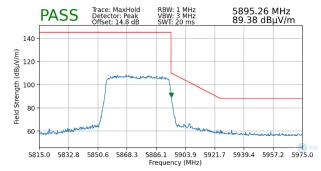
Plot 7-190. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 4)

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

802.11ax MCS0 3 Meters 5875MHz 175



Plot 7-191. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 4)



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

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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:

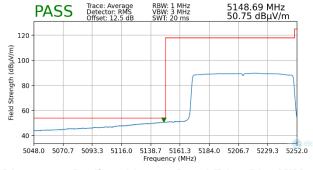
802.11ax

MCS0

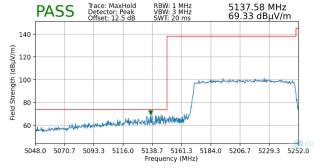
3 Meters

5210MHz

42



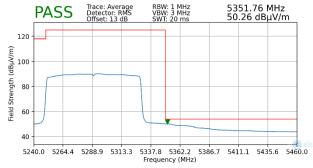
Plot 7-193. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1)



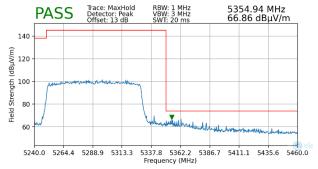
Plot 7-194. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)

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

802.11ax
MCS0
3 Meters
5290MHz
58



Plot 7-195. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A)



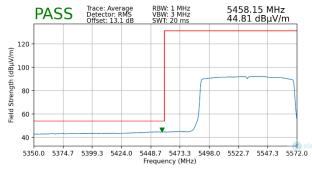
Plot 7-196. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A)

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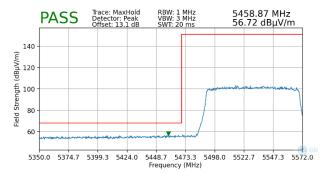


Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

802.11ax
MCS0
3 Meters
5530MHz
106



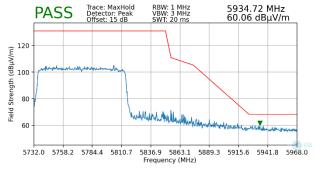
Plot 7-197. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C)



Plot 7-198. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C)

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

802.11ax
MCS0
3 Meters
5775MHz
155



Plot 7-199. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3)

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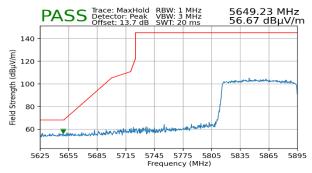
V9.0 02/01/2019

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

802.11ax
MCS0
3 Meters
5855MHz
171



Plot 7-200. 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

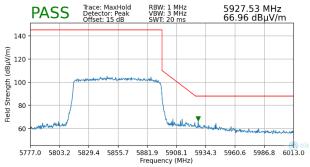
3 Meters

5855MHz

171



Plot 7-201. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 4)



Plot 7-202. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 4)

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MIMO Radiated Band Edge Measurements (160MHz BW)

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

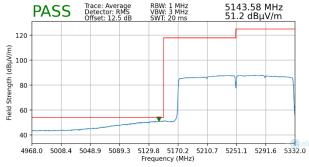
802.11ac

MCS0

3 Meters

5250MHz

50



Plot 7-203. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1)

Plot 7-204. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)

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

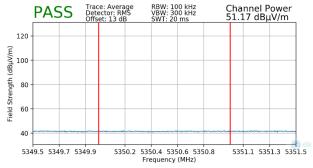
802.11ax

MCS0

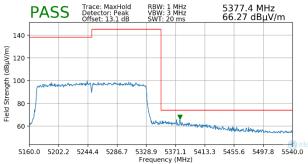
3 Meters

5250MHz

50



Plot 7-205. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A)



Plot 7-206. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A)

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