



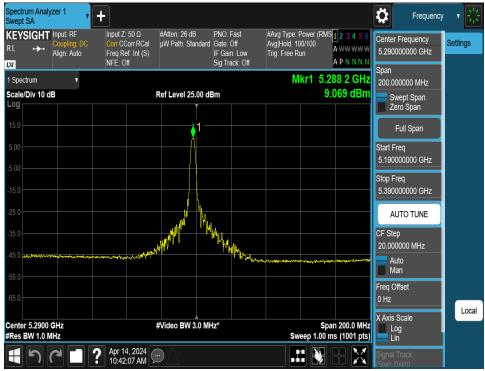
Plot 7-131. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11be - 26 Tones (UNII Band 2A) - Ch. 56)



Plot 7-132. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11be - 26 Tones (UNII Band 2A) - Ch. 54)

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Plot 7-133. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11be - 26 Tones (UNII Band 2A) - Ch. 58)



Plot 7-134. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11be - 26 Tones (UNII Band 2C) - Ch. 120)

| FCC ID: A3LNP940XMA | MEASUREMENT REPORT | | Approved by: Technical Manager |
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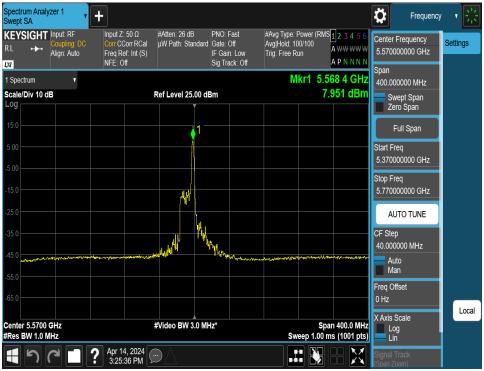
Plot 7-135. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11be - 26 Tones (UNII Band 2C) - Ch. 118)



Plot 7-136. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11be - 26 Tones (UNII Band 2C) - Ch. 122)

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Plot 7-137. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802.11be - 26 Tones (UNII Band 2C) - Ch. 114)

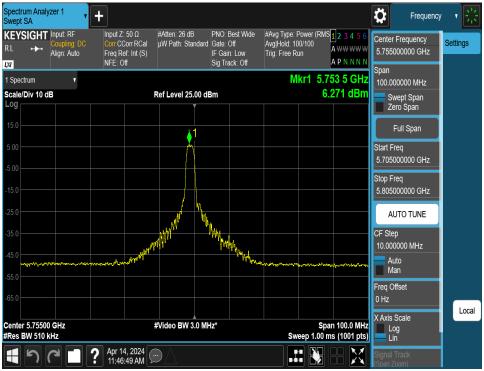


Plot 7-138. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11be - 26 Tones (UNII Band 3) - Ch. 157)

| FCC ID: A3LNP940XMA | MEASUREMENT REPORT | | Approved by: Technical Manager |
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Plot 7-139. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11be - 26 Tones (UNII Band 3) - Ch. 151)



Plot 7-140. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11be - 26 Tones (UNII Band 3) - Ch. 155)

| FCC ID: A3LNP940XMA | MEASUREMENT REPORT | | Approved by: Technical Manager |
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Plot 7-141. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11be - 26 Tones (UNII Band 4) - Ch. 173)



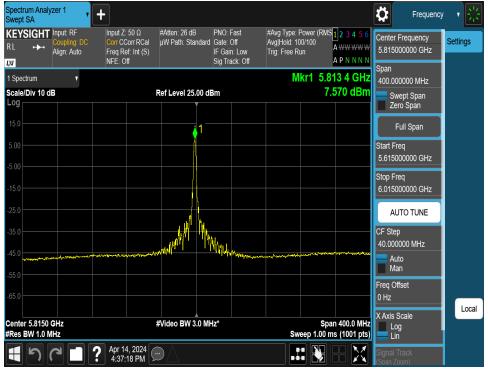
Plot 7-142. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11be - 26 Tones (UNII Band 3/4) - Ch. 167)

| FCC ID: A3LNP940XMA | MEASUREMENT REPORT | | Approved by: Technical Manager |
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Plot 7-143. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11be - 26 Tones (UNII Band 3/4) - Ch. 171)



Plot 7-144. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802.11be - 26 Tones (UNII Band 3/4) - Ch. 163)

| FCC ID: A3LNP940XMA | MEASUREMENT REPORT | | Approved by: Technical Manager |
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Plot 7-145. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11be - 242 Tones (UNII Band 1) - Ch. 40)



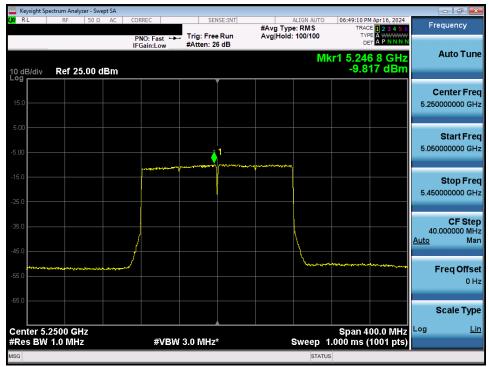
Plot 7-146. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11be - 484 Tones (UNII Band 1) - Ch. 38)

| FCC ID: A3LNP940XMA | MEASUREMENT REPORT | | Approved by: Technical Manager |
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Plot 7-147. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11be - 996 Tones (UNII Band 1) - Ch. 42)



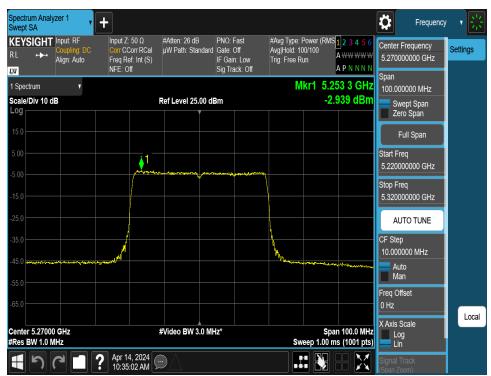
Plot 7-148. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802.11be - 2x996 Tones (UNII Band 1/2A) - Ch. 50)

| FCC ID: A3LNP940XMA | MEASUREMENT REPORT | | Approved by: Technical Manager |
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Plot 7-149. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11be - 242 Tones (UNII Band 2A) - Ch. 56)



Plot 7-150. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11be - 484 Tones (UNII Band 2A) - Ch. 54)

| FCC ID: A3LNP940XMA | | MEASUREMENT REPORT | |
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Plot 7-151. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11be - 996 Tones (UNII Band 2A) - Ch. 58)



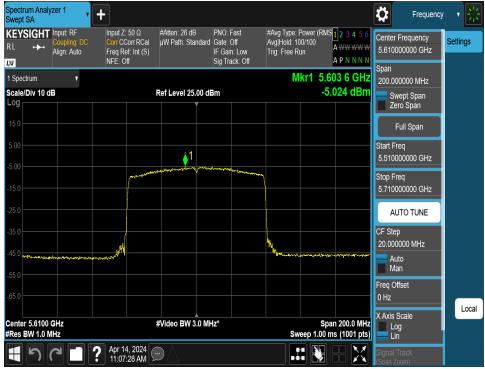
Plot 7-152. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11be - 242 Tones (UNII Band 2C) - Ch. 120)

| FCC ID: A3LNP940XMA | | MEASUREMENT REPORT | |
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Plot 7-153. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11be - 484 Tones (UNII Band 2C) - Ch. 118)



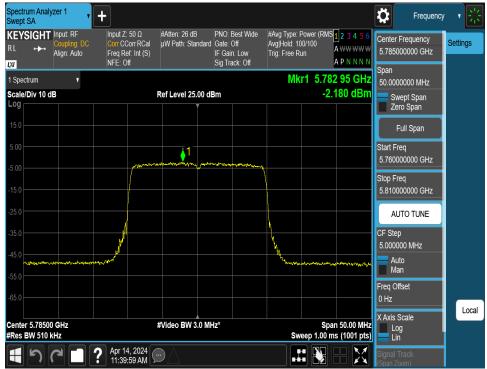
Plot 7-154. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11be - 996 Tones (UNII Band 2C) - Ch. 122)

| FCC ID: A3LNP940XMA | MEASUREMENT REPORT | | Approved by: Technical Manager |
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Plot 7-155. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802.11be - 2x996 Tones (UNII Band 2C) - Ch. 114)



Plot 7-156. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11be - 242 Tones (UNII Band 3) - Ch. 157)

| FCC ID: A3LNP940XMA | MEASUREMENT REPORT | | Approved by: Technical Manager |
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Plot 7-157. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11be - 484 Tones (UNII Band 3) - Ch. 151)



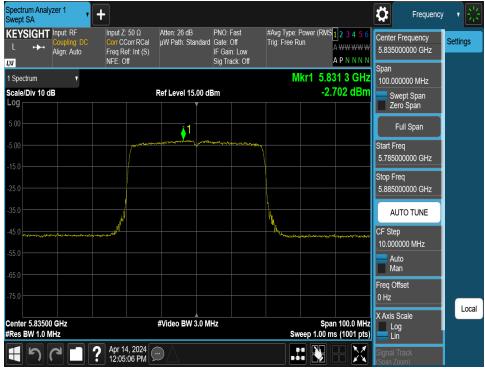
Plot 7-158. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11be - 996 Tones (UNII Band 3) - Ch. 155)

| FCC ID: A3LNP940XMA | MEASUREMENT REPORT | | Approved by: Technical Manager |
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Plot 7-159. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11be - 242 Tones (UNII Band 4) - Ch. 173)



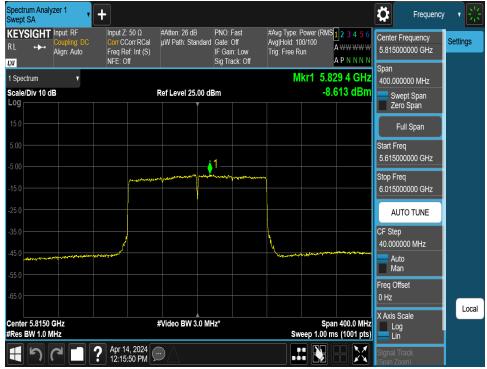
Plot 7-160. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11be - 484 Tones (UNII Band 3/4) - Ch. 167)

| FCC ID: A3LNP940XMA | MEASUREMENT REPORT | | Approved by: Technical Manager | |
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Plot 7-161. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11be - 996 Tones (UNII Band 3/4) - Ch. 171)



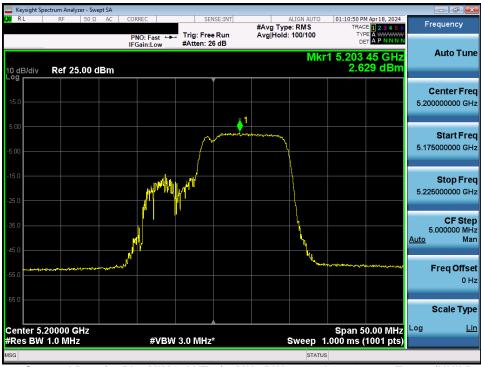
Plot 7-162. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802.11be - 996*2 Tones (UNII Band 3/4) - Ch. 163)

| FCC ID: A3LNP940XMA | MEASUREMENT REPORT | | Approved by: Technical Manager |
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Plot 7-163. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11be - 52+26 Tones (UNII Band 1) - Ch. 40)

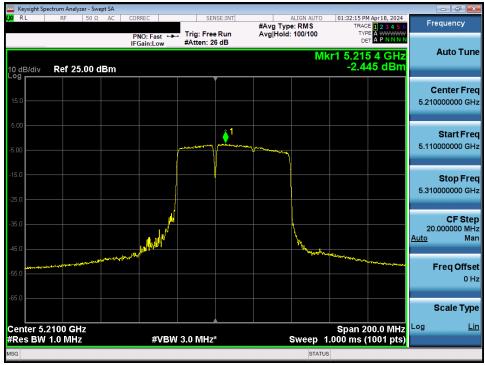


Plot 7-164. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11be - 106+26 Tones (UNII Band 1) - Ch. 40)

| FCC ID: A3LNP940XMA | | MEASUREMENT REPORT | |
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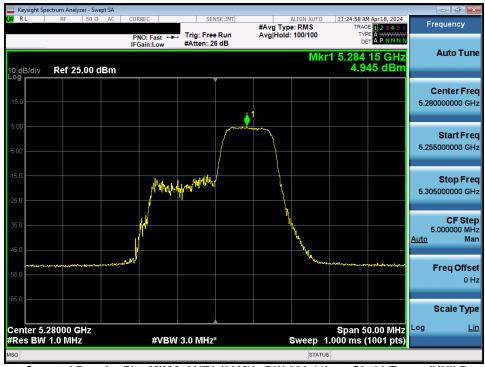
Plot 7-165. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11be - 484+242Tones (UNII Band 1) - Ch. 42)



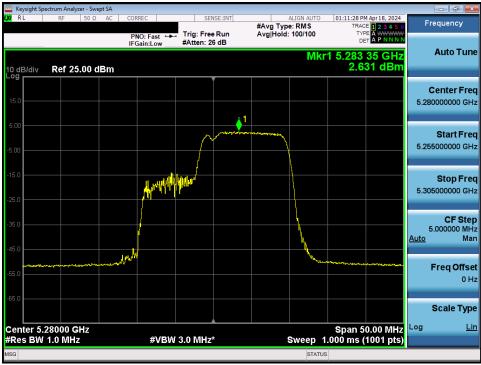
Plot 7-166. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802.11be - 996+484 Tones (UNII Band 1/2A) - Ch. 50)

| FCC ID: A3LNP940XMA | MEASUREMENT REPORT | | Approved by: Technical Manager |
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Plot 7-167. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11be - 52+26 Tones (UNII Band 2A) - Ch. 56)



Plot 7-168. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11be - 106+26 Tones (UNII Band 2A) - Ch. 56)

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Plot 7-169. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11be - 484+242Tones (UNII Band 2A) - Ch. 58)



Plot 7-170. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11be - 52+26 Tones (UNII Band 2C) - Ch. 120)

| FCC ID: A3LNP940XMA | MEASUREMENT REPORT | | Approved by: Technical Manager |
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Plot 7-171. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11be - 106+26 Tones (UNII Band 2C) - Ch. 120)

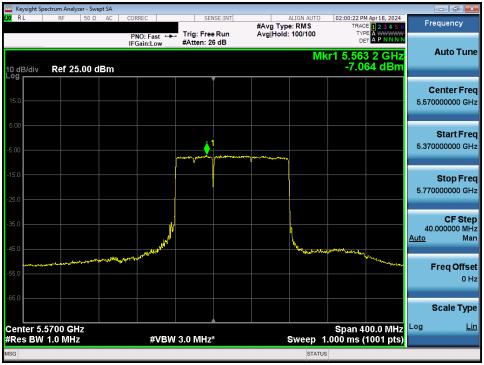


Plot 7-172. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11be - 484+242Tones (UNII Band 2C) - Ch. 122)

| FCC ID: A3LNP940XMA | MEASUREMENT REPORT | | Approved by: Technical Manager |
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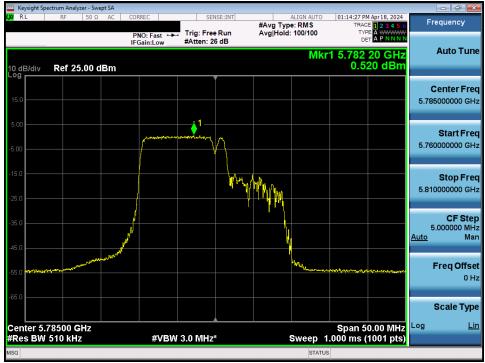
Plot 7-173. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802.11be - 996+484 Tones (UNII Band 2C) - Ch. 114)



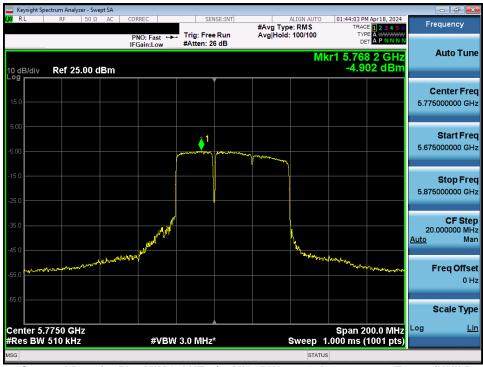
Plot 7-174. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11be - 52+26 Tones (UNII Band 3) - Ch. 157)

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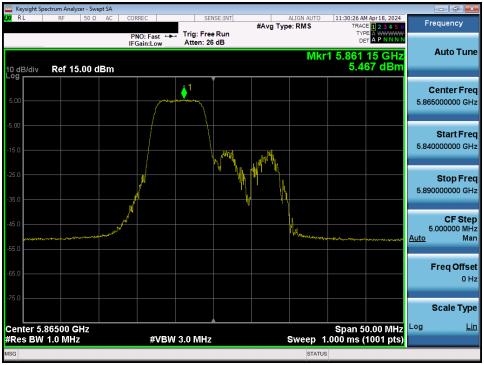
Plot 7-175. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11be - 106+26 Tones (UNII Band 3) - Ch. 157)



Plot 7-176. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11be - 484+242Tones (UNII Band 3) - Ch. 155)

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Plot 7-177. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11be - 52+26 Tones (UNII Band 4) - Ch. 173)

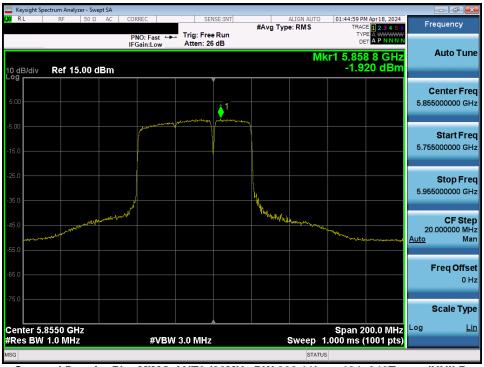


Plot 7-178. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11be - 106+26 Tones (UNII Band 4) - Ch. 173)

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Plot 7-179. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11be - 484+242Tones (UNII Band 3/4) - Ch. 171)



Plot 7-180. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802.11be - 996+484 Tones (UNII Band 3/4) - Ch. 163)

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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 with reduced Antenna-1 and Antenna-2 powers per manufacture's tune-up document. The measured values were then summed in linear power units then converted back to dBm.

Sample Directional Gain Calculation:

Assuming the antenna gain is 0.60 dBi for Antenna-1 and 0.14 dBi for Antenna-2.

Directional gain =
$$10 \log[(10^{G_1/20} + 10^{G_2/20} + ... + 10^{G_N/20})^2 / N_{ANT}] dBi$$

= $10 \log[(10^{2.58/20} + 10^{2.52/20} / 2] dBi$
= $3.38 dBi$

Sample MIMO Calculation:

Assuming the average conducted power spectral density was measured to be 7.66 dBm for Antenna-1 and 7.40 dBm for Antenna-2.

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

Assuming the average MIMO power density was calculated to be 10.54 dBm with directional gain of 3.38 dBi.

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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 KDB 789033 D02 v02r01, 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 FCC §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 7-33. Radiated Limits

Test Procedures Used

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

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Test Settings - Above 1GHz

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

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest.
- 2. RBW = 1MHz
- 3. VBW = 3MHz
- 4. Detector = power average (RMS)
- Number of measurement points = 1001 (Number of points must be > 2 x 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.
- 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.

| FCC ID: A3LNP940XMA | | MEASUREMENT REPORT | Approved by: Technical Manager | | |
|---------------------|-------------------------|---------------------------|-----------------------------------|--|--|
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ELEMENT V 11.0 07/06/202:



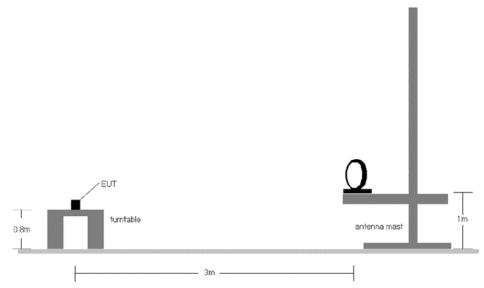


Figure 7-5. Radiated Test Setup < 30MHz

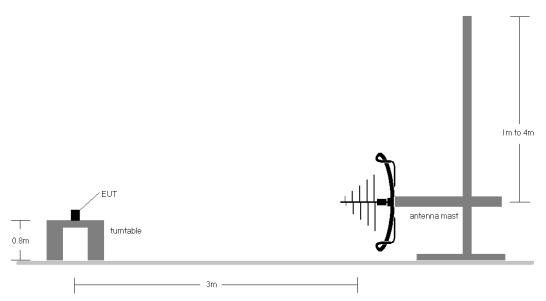


Figure 7-6. Radiated Test Setup < 1GHz

| FCC ID: A3LNP940XMA | | MEASUREMENT REPORT | Approved by: Technical Manager |
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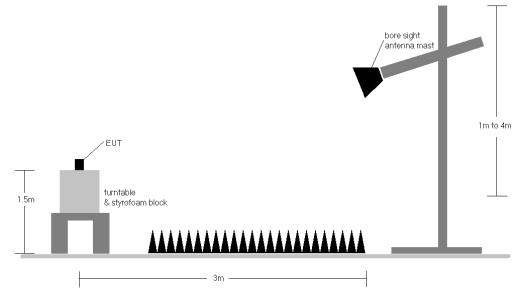


Figure 7-7. Radiated Test Setup > 1GHz

Test Notes

- 1. All spurious emissions lying in restricted bands specified in §15.205 are below the limit shown in §15.209. All spurious emissions that do not lie in a restricted band are subject to an average limit of -27dBm/MHz. At 3 meters, the field strength limit in dB_μV/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 [68.2dBuV/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.

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- 9. In the case where a peak-detector measurement passed the given RMS limit it was determined sufficient to demonstrate compliance.
- 10. The results recorded using the broadband antenna are known to correlate with the results obtained by using a tuned dipole with an acceptable degree of accuracy. The VSWR for the measurement antenna was found to be less than 2:1.
- 11. For radiated measurements, emissions were investigated for the fully-loaded RU configuration and for all of the partially-loaded RU configurations. Among all of the available partially-loaded RU configurations, only the configuration with the worst case emissions is reported.

Sample Calculations

Determining Spurious Emissions Levels

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

Radiated Band Edge Measurement Offset

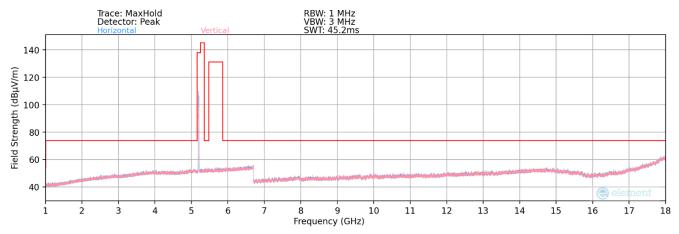
The amplitude offset shown in the radiated restricted band edge plots in Section Radiated Spurious
 Emission Measurements – Above 1GHz was calculated using the formula:

Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

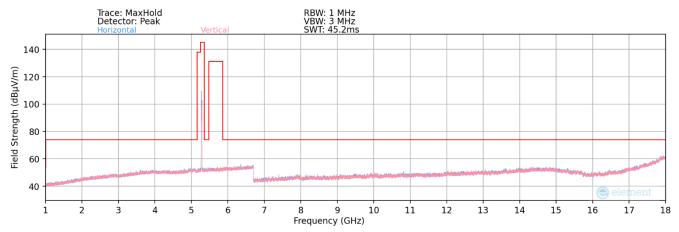
| FCC ID: A3LNP940XMA | | MEASUREMENT REPORT | Approved by: Technical Manager | |
|---------------------|-------------------------|---------------------------|--------------------------------|--|
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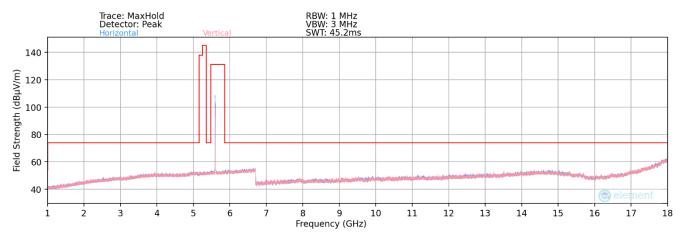
7.6.1 MIMO Radiated Spurious Emission Measurements (26 Tones)



Plot 7-181. Radiated Spurious Plot above 1GHz MIMO (802.11be - UNII 1 Ch. 40)



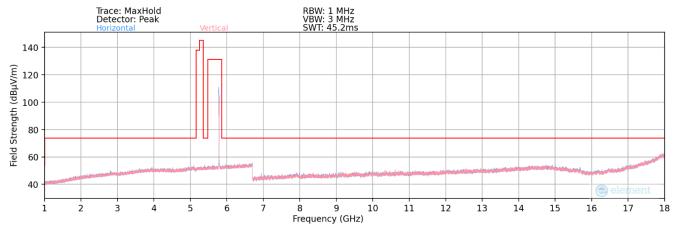
Plot 7-182. Radiated Spurious Plot above 1GHz MIMO (802.11be - UNII 2A Ch. 56)



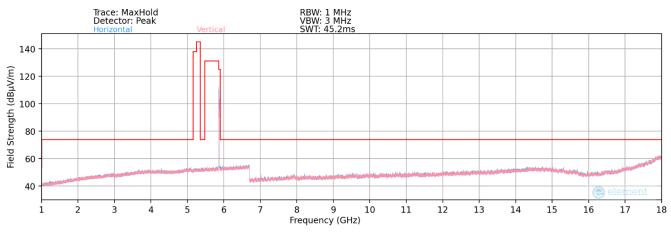
Plot 7-183. Radiated Spurious Plot above 1GHz MIMO (802.11be –UNII 2C Ch. 120)

| FCC ID: A3LNP940XMA | | MEASUREMENT REPORT | Approved by: Technical Manager | | |
|---------------------|-------------------------|---------------------------|-----------------------------------|--|--|
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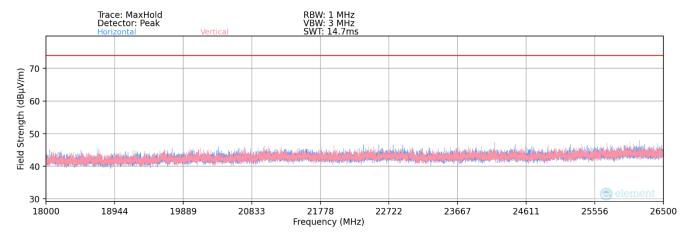




Plot 7-184. Radiated Spurious Plot above 1GHz MIMO (802.11be - UNII 3 Ch. 157)



Plot 7-185. Radiated Spurious Plot above 1GHz MIMO (802.11be - UNII 4 Ch. 173)

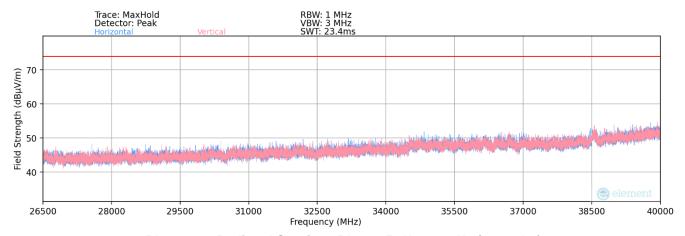


Plot 7-186. Radiated Spurious Plot 18GHz - 26.5GHz (802.11be)

| FCC ID: A3LNP940XMA | | MEASUREMENT REPORT | Approved by: Technical Manager | |
|---------------------|-------------------------|---------------------------|--------------------------------|--|
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Plot 7-187. Radiated Spurious Plot 26.5GHz - 40GHz (802.11be)

| FCC ID: A3LNP940XMA | MEASUREMENT REPORT Approved to Technical M | | | | |
|---------------------|--|---------------------------|-----------------|--|--|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 120 of 164 | | |
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MIMO Radiated Spurious Emission Measurements (26 Tones) - UNII 1

| Mode | Antenna | UNII Band | Channel | Test Channel Freq. [MHz] | RU Index | Restricted | Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|--------------------|---------|-----------|---------|-----------------------------------|----------|------------|--------------------|----------|--------------------|------------------------|----------------------------------|-------------------------|----------------|---------------------------------------|-------------------------------|-------------------|-------------|
| | | | | | | | 10360.00 | Peak | H | - | - | -68.12 | 10.97 | 0.00 | 49.85 | 68.20 | -18.35 |
| | | | | | | * | 15540.00 | Average | Ι | | - | -81.43 | 14.86 | 0.00 | 40.43 | 53.98 | -13.55 |
| | | | 36 | 5180 | 4 | * | 15540.00 | Peak | Н | - | - | -69.68 | 14.86 | 0.00 | 52.18 | 73.98 | -21.80 |
| | | | 30 | 3180 | 4 | * | 20720.00 | Average | Н | - | - | -65.66 | 3.16 | -9.54 | 34.96 | 53.98 | -19.02 |
| | | | | | | * | 20720.00 | Peak | Н | - | - | -56.10 | 3.16 | -9.54 | 44.51 | 73.98 | -29.47 |
| | | 1 | | | | | 25900.00 | Peak | Н | - | - | -56.49 | 4.24 | -9.54 | 45.21 | 68.20 | -22.99 |
| | | | | | | | 10400.00 | Peak | Н | - | - | -68.32 | 10.72 | 0.00 | 49.40 | 68.20 | -18.80 |
| | | | 40 | 5200 | 4 | * | 15600.00 | Average | Н | - | - | -80.88 | 15.16 | 0.00 | 41.28 | 53.98 | -12.70 |
| 802.11ax RU 26T | MIMO | | | | | * | 15600.00 | Peak | Н | - | - | -70.23 | 15.16 | 0.00 | 51.93 | 73.98 | -22.05 |
| | | | | | | * | 20800.00 | Average | Н | - | - | -65.08 | 3.15 | -9.54 | 35.53 | 53.98 | -18.45 |
| | | | | | | * | 20800.00 | Peak | Н | - | - | -56.16 | 3.15 | -9.54 | 44.45 | 73.98 | -29.53 |
| | | | | | | | 26000.00 | Peak | Н | - | - | -56.83 | 4.16 | -9.54 | 44.79 | 68.20 | -23.41 |
| | | | | | | | 10480.00 | Peak | Н | | - | -68.62 | 10.97 | 0.00 | 49.35 | 68.20 | -18.85 |
| | | | | | | * | 15720.00 | Average | H | - | - | -81.05 | 14.16 | -9.54 | 30.57 | 53.98 | -23.41 |
| | | | 48 | 5240 | 4 | * | 15720.00 | Peak | Н | = | - | -69.95 | 14.16 | -9.54 | 41.67 | 73.98 | -32.31 |
| | | | | | | | 20960.00 | Peak | Н | - | - | -56.88 | 3.27 | -9.54 | 43.86 | 68.20 | -24.34 |
| | | | | | | | 26200.00 | Peak | Н | - | - | -56.53 | 3.96 | -9.54 | 44.90 | 68.20 | -23.30 |

Table 7-34. Radiated Measurements MIMO (26 Tones)

| FCC ID: A3LNP940XMA | | Approved by: Technical Manager | | |
|------------------------------|-------------------------|-----------------------------------|-----------------|--|
| Test Report S/N: Test Dates: | | EUT Type: | Dogo 120 of 164 | |
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MIMO Radiated Spurious Emission Measurements (26 Tones) - UNII 2A

| Mode | Antenna | UNII Band | Channel | Test Channel Freq. [MHz] | RU Index | Restricted | Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|--------------------|----------------------------|-----------|---------|-----------------------------------|----------|------------|--------------------|----------|--------------------|------------------------|----------------------------------|-------------------------|----------------|---------------------------------------|-------------------------------|-------------------|-------------|
| | | | | | | | 10520.00 | Peak | Н | | - | -68.36 | 10.85 | 0.00 | 49.49 | 68.20 | -18.71 |
| | | | | | | * | 15780.00 | Average | H | 263 | 300 | -80.12 | 13.62 | 0.00 | 40.50 | 53.98 | -13.48 |
| | | 52 | 5260 | 4 | * | 15780.00 | Peak | Н | 263 | 300 | -70.13 | 13.62 | 0.00 | 50.49 | 73.98 | -23.49 | |
| | | | | | * | 21040.00 | Average | Н | - | - | -65.31 | 3.35 | -9.54 | 35.49 | 53.98 | -18.49 | |
| | | | | | | * | 21040.00 | Peak | Н | - | - | -55.97 | 3.35 | -9.54 | 44.83 | 73.98 | -29.15 |
| | | | | | | 26300.00 | Peak | Н | - | - | -57.34 | 3.91 | -9.54 | 44.03 | 68.20 | -24.17 | |
| | | | | 5280 | | | 10560.00 | Peak | Н | - | - | -67.86 | 10.71 | 0.00 | 49.85 | 68.20 | -18.35 |
| | | | | | | * | 15840.00 | Average | Н | 267 | 295 | -80.98 | 13.38 | 0.00 | 39.40 | 53.98 | -14.58 |
| | | | 56 | | | * | 15840.00 | Peak | Н | 267 | 295 | -70.28 | 13.38 | 0.00 | 50.10 | 73.98 | -23.88 |
| 802.11ax RU 26T | 802.11ax RU 26T MIMO 2A | 36 | 3280 | 4 | * | 21120.00 | Average | Н | - | - | -65.51 | 3.46 | -9.54 | 35.42 | 53.98 | -18.56 | |
| | | | | | | * | 21120.00 | Peak | Н | - | - | -56.60 | 3.46 | -9.54 | 44.32 | 73.98 | -29.66 |
| | | | | | | | 26400.00 | Peak | Н | - | - | -57.15 | 3.71 | -9.54 | 44.02 | 68.20 | -24.18 |
| | | | | | | * | 10640.00 | Average | Н | - | - | -79.87 | 10.52 | 0.00 | 37.65 | 53.98 | -16.33 |
| | | | 64 | 5320 | 4 | * | 10640.00 | Peak | Н | - | - | -68.81 | 10.52 | 0.00 | 48.71 | 73.98 | -25.27 |
| | | | | | | * | 15960.00 | Average | Н | 274 | 293 | -81.05 | 13.01 | 0.00 | 38.96 | 53.98 | -15.02 |
| | | | | | | * | 15960.00 | Peak | Н | 274 | 293 | -69.94 | 13.01 | 0.00 | 50.07 | 73.98 | -23.91 |
| | | | | | | * | 21280.00 | Average | Н | | - | -65.73 | 3.58 | -9.54 | 35.31 | 53.98 | -18.67 |
| | | | | | | * | 21280.00 | Peak | Н | - | - | -56.69 | 3.58 | -9.54 | 44.35 | 73.98 | -29.63 |
| | | | | | | | 26600.00 | Peak | Н | - | - | -56.99 | 3.91 | -9.54 | 44.38 | 68.20 | -23.82 |

Table 7-35. Radiated Measurements MIMO (26 Tones)

| FCC ID: A3LNP940XMA | | Approved by: Technical Manager | | |
|---------------------|-------------------------|--------------------------------|-----------------|--|
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MIMO Radiated Spurious Emission Measurements (26 Tones) - UNII 2C

| Mode | Antenna | UNII Band | Channel | Test Channel Freq. [MHz] | RU Index | Restricted | Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] | | | | | | | | | | | | |
|--------------------|---------|-----------|---------|-----------------------------------|----------|------------|--------------------|----------|--------------------|------------------------|----------------------------------|-------------------------|----------------|---------------------------------------|-------------------------------|-------------------|-------------|---|----------|---------|---|---|---|--------|-------|------|-------|-------|--------|
| | | | | | | * | 11000.00 | Average | Н | - | - | -79.89 | 11.14 | 0.00 | 38.25 | 53.98 | -15.73 | | | | | | | | | | | | |
| | | | | | | * | 11000.00 | Peak | Н | - | - | -68.94 | 11.14 | -9.54 | 39.66 | 73.98 | -34.32 | | | | | | | | | | | | |
| | | | 100 | 5500 | 4 | | 16500.00 | Peak | Н | - | - | -70.89 | 14.86 | -9.54 | 41.43 | 68.20 | -26.77 | | | | | | | | | | | | |
| | | | | | | | 22000.00 | Peak | Н | - | - | -56.50 | 3.53 | -9.54 | 44.49 | 68.20 | -23.71 | | | | | | | | | | | | |
| | | | | | | | 27500.00 | Peak | Н | - | - | -57.29 | 3.97 | -9.54 | 44.14 | 68.20 | -24.06 | | | | | | | | | | | | |
| | | | | | | * | 11200.00 | Average | Н | | - | -80.04 | 11.54 | 0.00 | 38.50 | 53.98 | -15.48 | | | | | | | | | | | | |
| | | | | | | * | 11200.00 | Peak | Н | - | - | -69.94 | 11.54 | 0.00 | 48.60 | 73.98 | -25.38 | | | | | | | | | | | | |
| | | | 120 | 5600 | 4 | | 16800.00 | Peak | Н | - | - | -69.96 | 15.53 | 0.00 | 52.57 | 68.20 | -15.63 | | | | | | | | | | | | |
| 802.11ax RU 26T | MIMO | 2C | 120 | 3600 | 4 | * | 22400.00 | Average | Н | - | - | -65.17 | 3.58 | -9.54 | 35.87 | 53.98 | -18.11 | | | | | | | | | | | | |
| | | | | | | * | 22400.00 | Peak | Н | - | - | -56.32 | 3.58 | -9.54 | 44.71 | 73.98 | -29.27 | | | | | | | | | | | | |
| | | | | | | | 28000.00 | Peak | Н | | - | -59.89 | 4.52 | -9.54 | 42.08 | 68.20 | -26.12 | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | * | 11440.00 | Average | Н | - | - | -79.87 | 11.52 | 0.00 | 38.65 | 53.98 | -15.33 |
| | | | | | | * | 11440.00 | Peak | Н | - | - | -68.96 | 11.52 | 0.00 | 49.56 | 73.98 | -24.42 | | | | | | | | | | | | |
| | | 144 | 144 | 5720 | 4 | | 17160.00 | Peak | Н | - | - | -69.98 | 17.60 | 0.00 | 54.62 | 68.20 | -13.58 | | | | | | | | | | | | |
| | | | 144 | 3/20 | 4 | * | 22880.00 | Average | Н | - | - | -65.34 | 3.76 | -9.54 | 35.87 | 53.98 | -18.11 | | | | | | | | | | | | |
| | | | | | | * | 22880.00 | Peak | Н | - | - | -57.01 | 3.76 | -9.54 | 44.21 | 73.98 | -29.77 | | | | | | | | | | | | |
| | | | | | | 28600.00 | Peak | Н | | - | -56.78 | 4.96 | -9.54 | 45.65 | 68.20 | -22.55 | | | | | | | | | | | | | |

Table 7-36. Radiated Measurements MIMO (26 Tones)

| FCC ID: A3LNP940XMA | | Approved by: Technical Manager | |
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MIMO Radiated Spurious Emission Measurements (26 Tones) - UNII 3

| Mode | Antenna | UNII Band | Channel | Test Channel Freq. [MHz] | RU Index | Restricted | Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|----------|----------|-----------|---------|-----------------------------------|----------|------------|--------------------|----------|--------------------|------------------------|----------------------------------|-------------------------|----------------|---------------------------------------|-------------------------------|-------------------|-------------|
| | | | | | | * | 11490.00 | Average | H | - | - | -80.11 | 11.52 | 0.00 | 38.41 | 53.98 | -15.57 |
| | | | | | | * | 11490.00 | Peak | H | | - | -69.89 | 11.52 | 0.00 | 48.63 | 73.98 | -25.35 |
| | | | 149 | 5745 | 4 | | 17235.00 | Peak | Н | - | - | -70.86 | 18.80 | 0.00 | 54.94 | 68.20 | -13.26 |
| | | | 142 | 3743 | - | * | 22980.00 | Average | Н | - | - | -65.02 | 3.66 | -9.54 | 36.10 | 53.98 | -17.88 |
| | | | | | | * | 22980.00 | Peak | Н | | - | -57.17 | 3.66 | -9.54 | 43.95 | 73.98 | -30.03 |
| | | | | | | | 28725.00 | Peak | Н | - | - | -57.62 | 5.05 | -9.54 | 44.90 | 68.20 | -23.30 |
| | | | | | | * | 11570.00 | Average | Н | - | - | -80.72 | 11.50 | 0.00 | 37.78 | 53.98 | -16.20 |
| 802.11ax | мімо | 3 | | | | * | 11570.00 | Peak | Н | - | - | -69.46 | 11.50 | 0.00 | 49.04 | 73.98 | -24.94 |
| RU 26T | IVIIIVIO | 3 | 157 | 5785 | 4 | | 17355.00 | Peak | Н | - | - | -70.89 | 20.00 | 0.00 | 56.11 | 68.20 | -12.09 |
| | | | | | | | 23140.00 | Peak | Н | - | - | -56.91 | 3.65 | -9.54 | 44.21 | 68.20 | -23.99 |
| | | | | | | | 28925.00 | Peak | H | - | - | -57.41 | 4.92 | -9.54 | 44.97 | 68.20 | -23.23 |
| | | | | | | * | 11650.00 | Average | Н | | - | -80.28 | 11.61 | 0.00 | 38.33 | 53.98 | -15.65 |
| | | | | | * | 11650.00 | Peak | Н | - | - | -69.11 | 11.61 | 0.00 | 49.50 | 73.98 | -24.48 | |
| | | 165 | 5825 | 4 | | 17475.00 | Peak | Н | - | - | -70.67 | 20.05 | 0.00 | 56.38 | 68.20 | -11.82 | |
| | | | | | | | 23300.00 | Peak | Н | - | - | -57.47 | 3.55 | -9.54 | 43.53 | 68.20 | -24.67 |
| | | | | | | | 29125.00 | Peak | Н | - | - | -56.36 | 5.01 | -9.54 | 46.11 | 68.20 | -22.09 |

Table 7-37. Radiated Measurements MIMO (26 Tones)

| FCC ID: A3LNP940XMA | | MEASUREMENT REPORT | Approved by: Technical Manager |
|---------------------|-------------------------|---------------------------|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 122 of 164 |
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MIMO Radiated Spurious Emission Measurements (26 Tones) - UNII 4

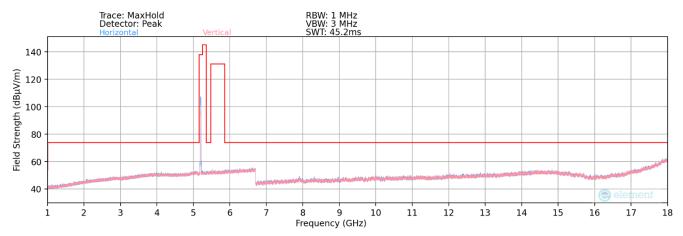
| Mode | Antenna | UNII Band | Channel | Test Channel Freq. [MHz] | RU Index | Restricted | Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|----------|---------|-----------|---------|-----------------------------------|----------|------------|--------------------|----------|--------------------|------------------------|----------------------------------|-------------------------|----------------|---------------------------------------|-------------------------------|-------------------|-------------|
| | | | | | | * | 11690.00 | Average | H | - | - | -80.34 | 11.78 | 0.00 | 38.44 | 53.98 | -15.54 |
| | | | | | | * | 11690.00 | Peak | Н | - | - | -69.12 | 11.78 | 0.00 | 49.66 | 73.98 | -24.32 |
| | | | 169 | 5845 | 4 | | 17535.00 | Peak | Н | - | - | -70.86 | 20.81 | 0.00 | 56.95 | 68.20 | -11.25 |
| | 109 | 109 | 3643 | - | | 23380.00 | Peak | Н | - | - | -56.79 | 3.53 | -9.54 | 44.20 | 68.20 | -24.00 | |
| | | | | | 29225.00 | Peak | Н | - | - | -57.54 | 5.04 | -9.54 | 44.96 | 68.20 | -23.24 | | |
| | | | | | | | 35070.00 | Peak | Н | - | - | -57.44 | 7.60 | -9.54 | 47.62 | 68.20 | -20.58 |
| | | | | | | * | 11730.00 | Average | Н | - | - | -80.41 | 11.89 | 0.00 | 38.48 | 53.98 | -15.50 |
| | | | | | | * | 11730.00 | Peak | Н | - | - | -69.34 | 11.89 | 0.00 | 49.55 | 73.98 | -24.43 |
| 802.11ax | ANT1 | 4 | 173 | 5865 | 4 | | 17595.00 | Peak | Н | - | - | -70.71 | 21.71 | 0.00 | 58.00 | 68.20 | -10.20 |
| RU 26T | ANTI | - | 1/3 | | | | 23460.00 | Peak | Н | - | - | -57.50 | 3.57 | -9.54 | 43.54 | 68.20 | -24.66 |
| | | | | | | | 29325.00 | Peak | Н | - | - | -56.81 | 5.14 | -9.54 | 45.79 | 68.20 | -22.41 |
| | | | | | | | 35190.00 | Peak | Н | - | - | -57.65 | 7.80 | -9.54 | 47.61 | 68.20 | -20.59 |
| | | | | | | * | 11770.00 | Average | Н | - | - | -80.28 | 11.92 | 0.00 | 38.64 | 53.98 | -15.34 |
| | | | | | | * | 11770.00 | Peak | Н | - | - | -69.24 | 11.92 | 0.00 | 49.68 | 73.98 | -24.30 |
| | | | 177 | 5885 | 4 | | 17655.00 | Peak | Н | - | - | -70.51 | 22.38 | 0.00 | 58.87 | 68.20 | -9.33 |
| | | 1// | 3003 | 4 | | 23540.00 | Peak | Н | - | - | -57.65 | 3.57 | -9.54 | 43.39 | 68.20 | -24.81 | |
| | | | | | | | 29425.00 | Peak | Н | - | - | -57.86 | 5.13 | -9.54 | 44.73 | 68.20 | -23.47 |
| | | | | | | 35310.00 | Peak | Н | - | - | -57.01 | 7.91 | -9.54 | 48.37 | 68.20 | -19.83 | |

Table 7-38. Radiated Measurements MIMO (26 Tones)

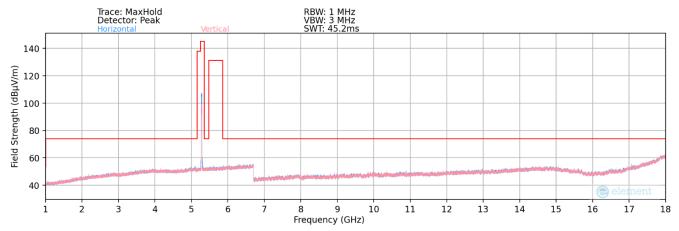
| FCC ID: A3LNP940XMA | | MEASUREMENT REPORT | Approved by: Technical Manager |
|---------------------|-------------------------|---------------------------|--------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 124 of 164 |
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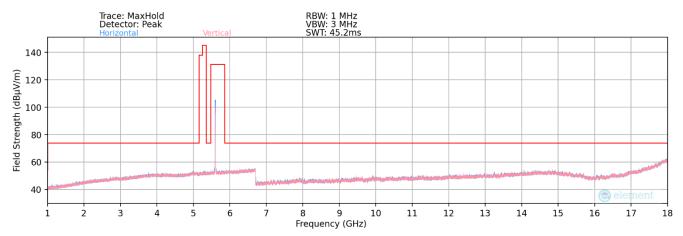
7.6.2 MIMO Radiated Spurious Emission Measurements (242 Tones)



Plot 7-188. Radiated Spurious Plot above 1GHz MIMO (802.11be - UNII 1 Ch. 40)



Plot 7-189. Radiated Spurious Plot above 1GHz MIMO (802.11be - UNII 2A Ch. 56)



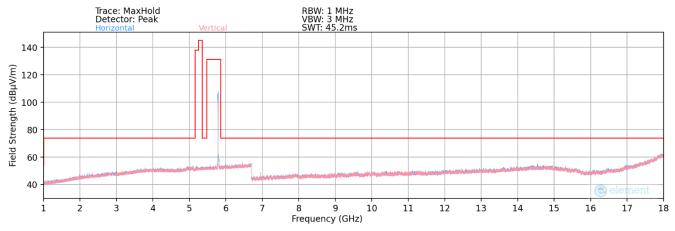
Plot 7-190. Radiated Spurious Plot above 1GHz MIMO (802.11be - UNII 2C Ch. 120)

| FCC ID: A3LNP940XMA | | MEASUREMENT REPORT | Approved by: Technical Manager |
|---------------------|-------------------------|---------------------------|--------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 125 of 164 |
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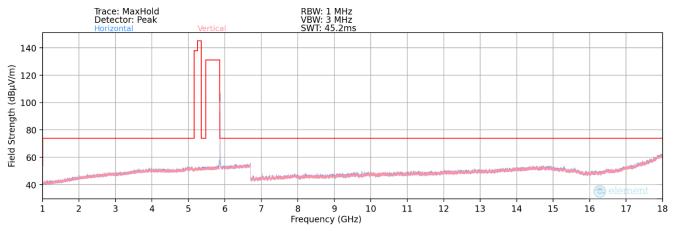
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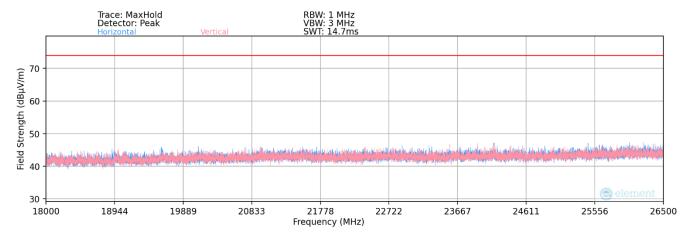




Plot 7-191. Radiated Spurious Plot above 1GHz MIMO (802.11be - UNII 3 Ch. 157)



Plot 7-192. Radiated Spurious Plot above 1GHz MIMO (802.11be - UNII 4 Ch. 173)



Plot 7-193. Radiated Spurious Plot 18GHz - 26.5GHz (802.11be)

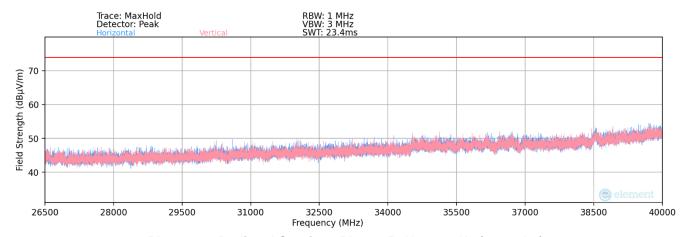
| FCC ID: A3LNP940XMA | | Approved by: Technical Manager | |
|---------------------|-------------------------|--------------------------------|-----------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 126 of 164 |
| 1M2403190019-08.A3L | 03/26/2023 - 04/24/2024 | Portable Computing Device | Page 136 of 164 |

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Plot 7-194. Radiated Spurious Plot 26.5GHz - 40GHz (802.11be)

| FCC ID: A3LNP940XMA | | Approved by: Technical Manager | |
|---------------------|-------------------------|-----------------------------------|-----------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 127 of 164 |
| 1M2403190019-08.A3L | 03/26/2023 - 04/24/2024 | Portable Computing Device | Page 137 of 164 |



MIMO Radiated Spurious Emission Measurements (242 Tones) - UNII 1

| Mode | Antenna | UNII Band | Channel | Test Channel Freq. [MHz] | RU Index | Restricted | Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|---------------------|---------|-----------|---------|-----------------------------------|----------|------------|--------------------|----------|--------------------|------------------------|----------------------------------|-------------------------|----------------|---------------------------------------|-------------------------------|-------------------|-------------|
| | | | | | | | 10360.00 | Peak | Н | - | - | -68.06 | 10.97 | 0.00 | 49.91 | 68.20 | -18.29 |
| | | | | | | * | 15540.00 | Average | Н | - | - | -81.31 | 14.86 | 0.00 | 40.55 | 53.98 | -13.43 |
| | | | 36 | 5180 | 61 | * | 15540.00 | Peak | Н | - | - | -69.74 | 14.86 | 0.00 | 52.12 | 73.98 | -21.86 |
| | | | 30 | 3160 | 01 | * | 20720.00 | Average | Н | - | - | -65.39 | 3.16 | -9.54 | 35.22 | 53.98 | -18.76 |
| | | | | | | * | 20720.00 | Peak | Н | - | - | -57.57 | 3.16 | -9.54 | 43.04 | 73.98 | -30.94 |
| | | | | | | | 25900.00 | Peak | Н | - | - | -56.95 | 4.24 | -9.54 | 44.75 | 68.20 | -23.45 |
| | | | | | | | 10400.00 | Peak | Н | - | - | -68.24 | 10.72 | 0.00 | 49.48 | 68.20 | -18.72 |
| | | | | | | * | 15600.00 | Average | Н | - | - | -81.16 | 15.16 | 0.00 | 41.00 | 53.98 | -12.98 |
| 802.11ax RU 242T | MIMO | 1 | 40 | 5200 | 61 | * | 15600.00 | Peak | Н | - | - | -70.12 | 15.16 | 0.00 | 52.04 | 73.98 | -21.94 |
| 110 2 121 | | | 40 | 5200 | 61 | * | 20800.00 | Average | Н | - | - | -65.23 | 3.15 | -9.54 | 35.38 | 53.98 | -18.60 |
| | | | | | | * | 20800.00 | Peak | Н | - | - | -57.13 | 3.15 | -9.54 | 43.48 | 73.98 | -30.50 |
| | | | | | | | 26000.00 | Peak | Н | - | - | -57.23 | 4.16 | -9.54 | 44.39 | 68.20 | -23.81 |
| | | | | | | | 10480.00 | Peak | Н | - | - | -68.42 | 10.97 | 0.00 | 49.55 | 68.20 | -18.65 |
| | | | | | | * | 15720.00 | Average | Н | - | - | -81.04 | 14.16 | 0.00 | 40.12 | 53.98 | -13.86 |
| | | | 48 | 5240 | 61 | * | 15720.00 | Peak | Н | - | - | -69.71 | 14.16 | 0.00 | 51.45 | 73.98 | -22.53 |
| | | | | | | | 20960.00 | Peak | Н | - | - | -57.57 | 3.27 | -9.54 | 43.16 | 68.20 | -25.04 |
| | | | | | | | 26200.00 | Peak | Н | - | - | -57.24 | 3.96 | -9.54 | 44.18 | 68.20 | -24.02 |

Table 7-39. Radiated Measurements MIMO (242 Tones)

| FCC ID: A3LNP940XMA | | MEASUREMENT REPORT | Approved by: Technical Manager |
|---------------------|-------------------------|---------------------------|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 138 of 164 |
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MIMO Radiated Spurious Emission Measurements (242 Tones) - UNII 2A

| Mode | Antenna | UNII Band | Channel | Test Channel Freq. [MHz] | RU Index | Restricted | Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|---------------------|---------|-----------|---------|-----------------------------------|----------|------------|--------------------|----------|--------------------|------------------------|----------------------------------|-------------------------|----------------|---------------------------------------|-------------------------------|-------------------|-------------|
| | | | | | | | 10520.00 | Peak | Н | | - | -68.14 | 10.85 | 0.00 | 49.71 | 68.20 | -18.49 |
| | | | | | | * | 15780.00 | Average | H | | - | -80.85 | 13.62 | 0.00 | 39.77 | 53.98 | -14.21 |
| | | | 52 | 5260 | 61 | * | 15780.00 | Peak | Н | - | - | -70.11 | 13.62 | 0.00 | 50.51 | 73.98 | -23.47 |
| | | 32 | 3200 | 01 | * | 21040.00 | Average | Н | - | - | -65.43 | 3.35 | -9.54 | 35.38 | 53.98 | -18.60 | |
| | | | | | | * | 21040.00 | Peak | Н | - | - | -57.58 | 3.35 | -9.54 | 43.23 | 73.98 | -30.75 |
| | | | | | | | 26300.00 | Peak | Н | - | - | -57.83 | 3.91 | -9.54 | 43.54 | 68.20 | -24.66 |
| | | | | | | | 10560.00 | Peak | Н | - | - | -67.81 | 10.71 | 0.00 | 49.90 | 68.20 | -18.30 |
| | | | | | | * | 15840.00 | Average | Н | - | - | -81.34 | 13.38 | 0.00 | 39.04 | 53.98 | -14.94 |
| | | | 56 | 5280 | 61 | * | 15840.00 | Peak | Н | - | - | -70.24 | 13.38 | 0.00 | 50.14 | 73.98 | -23.84 |
| 802.11ax RU 242T | MIMO | 2A | 56 | 3260 | 61 | * | 21120.00 | Average | Н | - | - | -65.22 | 3.46 | -9.54 | 35.70 | 53.98 | -18.28 |
| | | | | | | * | 21120.00 | Peak | Н | | - | -56.79 | 3.46 | -9.54 | 44.13 | 73.98 | -29.85 |
| | | | | | | | 26400.00 | Peak | Н | - | - | -57.45 | 3.71 | -9.54 | 43.73 | 68.20 | -24.47 |
| | | | | | | * | 10640.00 | Average | Н | - | - | -79.84 | 10.52 | 0.00 | 37.68 | 53.98 | -16.30 |
| | | | | | | * | 10640.00 | Peak | Н | - | - | -68.15 | 10.52 | 0.00 | 49.37 | 73.98 | -24.61 |
| | | | | | | * | 15960.00 | Average | Н | - | - | -81.41 | 13.01 | 0.00 | 38.60 | 53.98 | -15.38 |
| | | | 64 | 5320 | 61 | * | 15960.00 | Peak | Н | - | - | -70.04 | 13.01 | 0.00 | 49.97 | 73.98 | -24.01 |
| | | | | | | * | 21280.00 | Average | Н | | - | -65.35 | 3.58 | -9.54 | 35.70 | 53.98 | -18.28 |
| | | | | | | * | 21280.00 | Peak | Н | - | - | -57.47 | 3.58 | -9.54 | 43.57 | 73.98 | -30.41 |
| | | | | | | | 26600.00 | Peak | Н | - | - | -57.67 | 3.91 | -9.54 | 43.70 | 68.20 | -24.50 |

Table 7-40. Radiated Measurements MIMO (242 Tones)

| FCC ID: A3LNP940XMA | | MEASUREMENT REPORT | Approved by: Technical Manager | |
|---------------------|-------------------------|---------------------------|-----------------------------------|--|
| Test Report S/N: | Test Dates: | EUT Type: | Page 139 of 164 | |
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MIMO Radiated Spurious Emission Measurements (242 Tones) - UNII 2C

| Mode | Antenna | UNII Band | Channel | Test Channel Freq. [MHz] | RU Index | Restricted | Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] | | | | | | | | | | | | | | | | | |
|---------------------|---------|-----------|---------|-----------------------------------|----------|------------|--------------------|----------|--------------------|------------------------|----------------------------------|-------------------------|----------------|---------------------------------------|-------------------------------|-------------------|-------------|--------|----|----|----|----|----|--|---|----------|---------|---|---|---|--------|------|-------|-------|
| | | | | | | * | 11000.00 | Average | Н | - | - | -68.81 | 11.14 | 0.00 | 49.33 | 53.98 | -4.65 | | | | | | | | | | | | | | | | | |
| | | | | | | * | 11000.00 | Peak | Н | - | - | -79.86 | 11.14 | -9.54 | 28.74 | 73.98 | -45.24 | | | | | | | | | | | | | | | | | |
| | | | 100 | 5500 | 61 | | 16500.00 | Peak | Н | - | - | -70.86 | 14.86 | -9.54 | 41.46 | 68.20 | -26.74 | | | | | | | | | | | | | | | | | |
| | | | | | | | 22000.00 | Peak | Н | - | - | -57.21 | 3.53 | -9.54 | 43.78 | 68.20 | -24.42 | | | | | | | | | | | | | | | | | |
| | | | | | | | 27500.00 | Peak | Н | - | - | -57.79 | 3.97 | -9.54 | 43.65 | 68.20 | -24.55 | | | | | | | | | | | | | | | | | |
| | | | | | | * | 11200.00 | Average | Н | | - | -68.84 | 11.54 | 0.00 | 49.70 | 53.98 | -4.28 | | | | | | | | | | | | | | | | | |
| | | | | | | * | 11200.00 | Peak | Н | - | - | -79.92 | 11.54 | 0.00 | 38.62 | 73.98 | -35.36 | | | | | | | | | | | | | | | | | |
| | | | 120 | 5600 | 61 | 61 | | 16800.00 | Peak | Н | - | - | -69.88 | 15.53 | 0.00 | 52.65 | 68.20 | -15.55 | | | | | | | | | | | | | | | | |
| 802.11ax RU 242T | MIMO | 2C | 120 | 3600 | | | " | 01 | i | | | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 31 | | * | 22400.00 | Average | Н | - | - | -65.14 | 3.58 | -9.54 | 35.89 |
| | | | | | | * | 22400.00 | Peak | Н | - | - | -56.91 | 3.58 | -9.54 | 44.13 | 73.98 | -29.85 | | | | | | | | | | | | | | | | | |
| | | | | | | | 28000.00 | Peak | Н | | - | -57.58 | 4.52 | -9.54 | 44.40 | 68.20 | -23.80 | | | | | | | | | | | | | | | | | |
| | | | | | | * | 11440.00 | Average | Н | - | - | -68.88 | 11.52 | 0.00 | 49.64 | 53.98 | -4.34 | | | | | | | | | | | | | | | | | |
| | | | | | | * | 11440.00 | Peak | Н | - | - | -79.97 | 11.52 | 0.00 | 38.55 | 73.98 | -35.43 | | | | | | | | | | | | | | | | | |
| | | | 144 | 5720 | 61 | | 17160.00 | Peak | Н | - | - | -69.78 | 17.60 | 0.00 | 54.82 | 68.20 | -13.38 | | | | | | | | | | | | | | | | | |
| | | | 144 | 3/20 | 01 | * | 22880.00 | Average | Н | - | - | -65.11 | 3.76 | -9.54 | 36.10 | 53.98 | -17.88 | | | | | | | | | | | | | | | | | |
| | | | | | | * | 22880.00 | Peak | Н | - | - | -56.89 | 3.76 | -9.54 | 44.33 | 73.98 | -29.65 | | | | | | | | | | | | | | | | | |
| | | | | | | 28600.00 | Peak | Н | | - | -57.49 | 4.96 | -9.54 | 44.94 | 68.20 | -23.26 | | | | | | | | | | | | | | | | | | |

Table 7-41. Radiated Measurements MIMO (242 Tones)

| FCC ID: A3LNP940XMA | | MEASUREMENT REPORT | Approved by: Technical Manager | |
|---------------------|-------------------------|---------------------------|--------------------------------|--|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 140 of 164 | |
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MIMO Radiated Spurious Emission Measurements (242 Tones) - UNII 3

| Mode | Antenna | UNII Band | Channel | Test Channel Freq. [MHz] | RU Index | Restricted | Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] | |
|----------|---------|-----------|----------|-----------------------------------|----------|------------|--------------------|----------|--------------------|------------------------|----------------------------------|-------------------------|----------------|---------------------------------------|-------------------------------|-------------------|-------------|--------|
| | | | | | | * | 11490.00 | Average | Н | - | - | -69.54 | 11.52 | 0.00 | 48.98 | 53.98 | -5.00 | |
| | | | | | | * | 11490.00 | Peak | Н | - | - | -81.28 | 11.52 | 0.00 | 37.24 | 73.98 | -36.74 | |
| | | | 149 | 5745 | 61 | | 17235.00 | Peak | Н | - | - | -69.46 | 18.80 | 0.00 | 56.34 | 68.20 | -11.86 | |
| | | | 145 | 3743 | 01 | * | 22980.00 | Average | Н | - | - | -65.72 | 3.66 | -9.54 | 35.40 | 53.98 | -18.58 | |
| | | | | | | * | 22980.00 | Peak | Н | - | - | -59.88 | 3.66 | -9.54 | 41.25 | 73.98 | -32.73 | |
| | | | | | | 28725.00 | Peak | Н | - | - | -57.07 | 5.05 | -9.54 | 45.44 | 68.20 | -22.76 | | |
| | | | | | | * | 11570.00 | Average | Н | - | - | -68.75 | 11.50 | 0.00 | 49.75 | 53.98 | -4.23 | |
| 802.11ax | мімо | 3 | | | | | * | 11570.00 | Peak | Н | - | - | -81.35 | 11.50 | 0.00 | 37.15 | 73.98 | -36.83 |
| RU 242T | WITIVIO | 3 | 157 | 5785 | 61 | | 17355.00 | Peak | Н | - | - | -69.05 | 20.00 | 0.00 | 57.95 | 68.20 | -10.25 | |
| | | | | | | | 23140.00 | Peak | Н | - | - | -57.41 | 3.65 | -9.54 | 43.70 | 68.20 | -24.50 | |
| | | | | | | | 28925.00 | Peak | Н | - | - | -57.29 | 4.92 | -9.54 | 45.09 | 68.20 | -23.11 | |
| | | | | | | * | 11650.00 | Average | Н | - | - | -68.91 | 11.61 | 0.00 | 49.70 | 53.98 | -4.28 | |
| | | | | | | * | 11650.00 | Peak | Н | - | - | -81.17 | 11.61 | 0.00 | 37.44 | 73.98 | -36.54 | |
| | | | 165 5825 | 5825 | 61 | | 17475.00 | Peak | Н | - | - | -69.13 | 20.05 | 0.00 | 57.92 | 68.20 | -10.28 | |
| | | | | | | | 23300.00 | Peak | Н | - | - | -57.73 | 3.55 | -9.54 | 43.27 | 68.20 | -24.93 | |
| | | | | | | | 29125.00 | Peak | Н | - | - | -57.77 | 5.01 | -9.54 | 44.70 | 68.20 | -23.50 | |

Table 7-42. Radiated Measurements MIMO (242 Tones)

| FCC ID: A3LNP940XMA | | MEASUREMENT REPORT | Approved by: Technical Manager |
|---------------------|-------------------------|---------------------------|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 141 of 164 |
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MIMO Radiated Spurious Emission Measurements (242 Tones) - UNII 4

| Mode | Antenna | UNII Band | Channel | Test Channel Freq. [MHz] | RU Index | Restricted | Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] | | | | | | | |
|----------|----------|-----------|---------|-----------------------------------|----------|------------|--------------------|----------|--------------------|------------------------|----------------------------------|-------------------------|----------------|---------------------------------------|-------------------------------|-------------------|-------------|--------|--------|-------|------|-------|-------|--------|
| | | | | | | * | 11690.00 | Average | Н | - | - | -80.12 | 11.78 | 0.00 | 38.66 | 53.98 | -15.32 | | | | | | | |
| | | | | | | * | 11690.00 | Peak | Н | - | - | -68.91 | 11.78 | 0.00 | 49.87 | 73.98 | -24.11 | | | | | | | |
| | | | 169 | 5845 | 61 | | 17535.00 | Peak | Н | - | - | -70.39 | 20.81 | 0.00 | 57.42 | 68.20 | -10.78 | | | | | | | |
| | | | 109 | 3043 | 01 | | 23380.00 | Peak | Н | - | - | -57.56 | 3.53 | -9.54 | 43.43 | 68.20 | -24.77 | | | | | | | |
| | | | | | | | 29225.00 | Peak | Н | - | - | -57.90 | 5.04 | -9.54 | 44.60 | 68.20 | -23.60 | | | | | | | |
| | | | | | | | 35070.00 | Peak | Н | - | - | -57.36 | 7.60 | -9.54 | 47.70 | 68.20 | -20.50 | | | | | | | |
| | | | | | 61 | * | 11730.00 | Average | Н | - | - | -80.43 | 11.89 | 0.00 | 38.46 | 53.98 | -15.52 | | | | | | | |
| | | | | | | * | 11730.00 | Peak | Н | - | - | -69.21 | 11.89 | 0.00 | 49.68 | 73.98 | -24.30 | | | | | | | |
| 802.11ax | мімо | 4 | 173 | 5865 | | 61 | 61 | 61 | 61 | 61 | 61 | 61 | | 17595.00 | Peak | Н | - | - | -70.67 | 21.71 | 0.00 | 58.04 | 68.20 | -10.16 |
| RU 242T | IVIIIVIO | 4 | 1/3 | 3603 | | | | 23460.00 | Peak | Н | - | - | -57.72 | 3.57 | -9.54 | 43.31 | 68.20 | -24.89 | | | | | | |
| | | | | | | | 1 | | 29325.00 | Peak | Н | - | - | -57.78 | 5.14 | -9.54 | 44.82 | 68.20 | -23.38 | | | | | |
| | | | | | | | 35190.00 | Peak | Н | - | - | -57.27 | 7.80 | -9.54 | 47.99 | 68.20 | -20.21 | | | | | | | |
| | | | | | | * | 11770.00 | Average | Н | - | - | -80.22 | 11.92 | 0.00 | 38.70 | 53.98 | -15.28 | | | | | | | |
| | | | | | | * | 11770.00 | Peak | Н | - | - | -69.17 | 11.92 | 0.00 | 49.75 | 73.98 | -24.23 | | | | | | | |
| | | | 177 | 5885 | 61 | | 17655.00 | Peak | Н | - | - | -70.64 | 22.38 | 0.00 | 58.74 | 68.20 | -9.46 | | | | | | | |
| | | | 1// | | 01 | | 23540.00 | Peak | Н | - | - | -57.19 | 3.57 | -9.54 | 43.84 | 68.20 | -24.36 | | | | | | | |
| | | | | | | | 29425.00 | Peak | Н | - | - | -57.63 | 5.13 | -9.54 | 44.96 | 68.20 | -23.24 | | | | | | | |
| | | | | | | | 35310.00 | Peak | Н | - | - | -57.46 | 7.91 | -9.54 | 47.91 | 68.20 | -20.29 | | | | | | | |

Table 7-43. Radiated Measurements MIMO (242 Tones)

| FCC ID: A3LNP940XMA | | MEASUREMENT REPORT | Approved by: Technical Manager | |
|---------------------|-------------------------|---------------------------|--------------------------------|--|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 142 of 164 | |
| 1M2403190019-08.A3L | 03/26/2023 - 04/24/2024 | Portable Computing Device | Page 142 of 164 | |

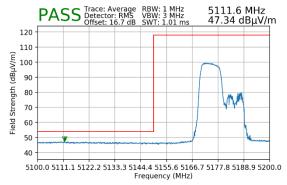


7.6.3 MIMO Radiated Band Edge Measurements (20MHz BW – Partial Tone – 106T)

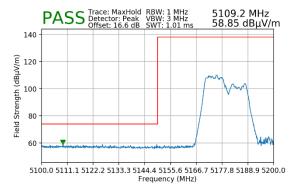
Worst Case Mode:
Worst Case Transfer Rate:

RU Index:
Distance of Measurements:
Operating Frequency:
Channel:

802.11be
MCS0
53
3 Meters
5180MHz
36



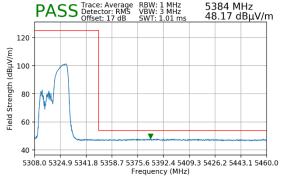
Plot 7-195. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1 – 106 Tones)



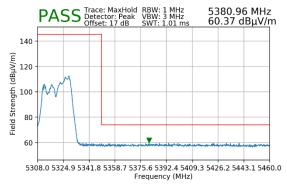
Plot 7-196. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1 – 106 Tones)

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

802.11be
MCS0
54
3 Meters
5320MHz
64



Plot 7-197. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A – 106 Tones)



Plot 7-198. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A – 106 Tones)

| FCC ID: A3LNP940XMA | | MEASUREMENT REPORT | Approved by: Technical Manager | |
|---------------------|-------------------------|---------------------------|--------------------------------|--|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 142 of 164 | |
| 1M2403190019-08.A3L | 03/26/2023 - 04/24/2024 | Portable Computing Device | Page 143 of 164 | |