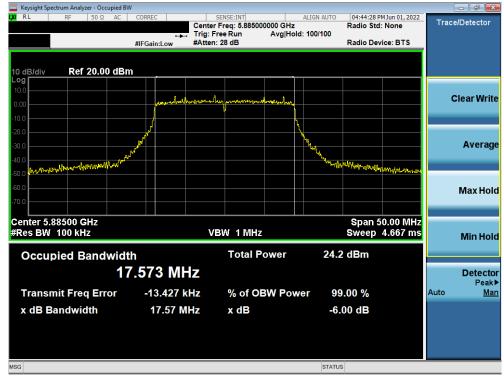


Plot 7-130. 6dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 4) - Ch. 173)



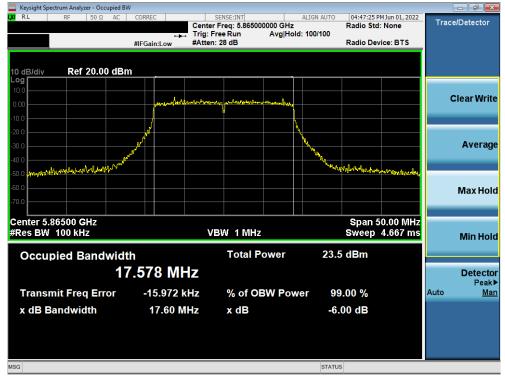
Plot 7-131. 6dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 4) - Ch. 177)

| FCC ID: A3LSMF721JPN | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
|------------------------|---------------------------------------|------------------|--------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dags 97 of 205 |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 87 of 305 |





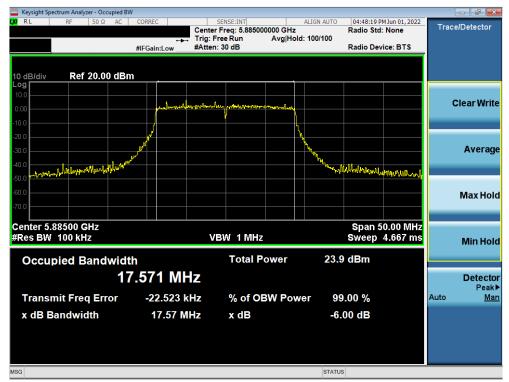
Plot 7-132. 6dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11ac (UNII Band 3/4) - Ch. 169)



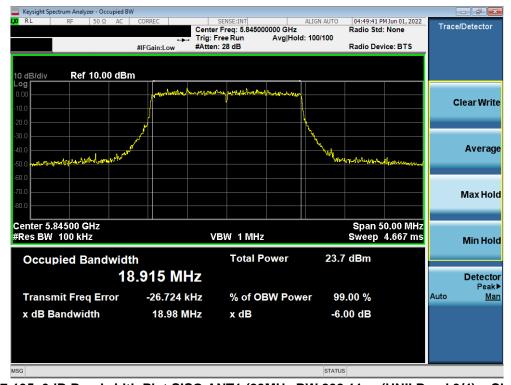
Plot 7-133. 6dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11ac (UNII Band 4) - Ch. 173)

| FCC ID: A3LSMF721JPN | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
|------------------------|---------------------------------------|------------------|--------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dags 99 of 205 |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 88 of 305 |





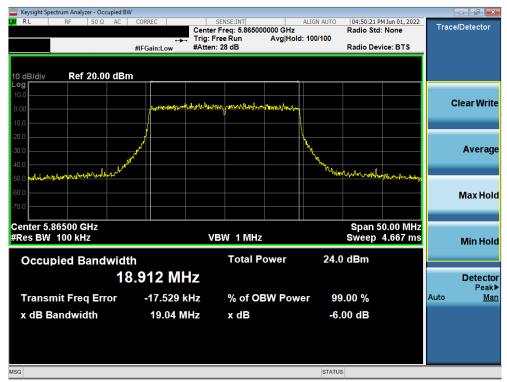
Plot 7-134. 6dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11ac (UNII Band 4) - Ch. 177)



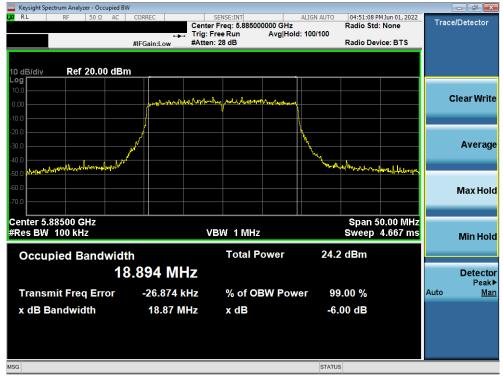
Plot 7-135. 6dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 3/4) - Ch. 169)

| FCC ID: A3LSMF721JPN | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
|------------------------|---------------------------------------|------------------|--------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dags 90 of 205 |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 89 of 305 |





Plot 7-136. 6dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 4) - Ch. 173)



Plot 7-137. 6dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 4) - Ch. 177)

| FCC ID: A3LSMF721JPN | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
|------------------------|---------------------------------------|------------------|--------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 00 of 205 |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 90 of 305 |





Plot 7-138. 6dB Bandwidth Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 3/4) - Ch. 167)



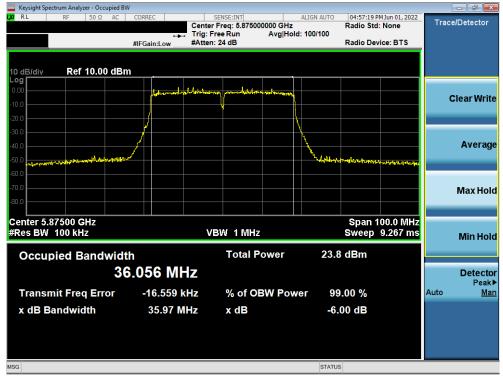
Plot 7-139. 6dB Bandwidth Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 4) - Ch. 175)

| FCC ID: A3LSMF721JPN | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
|------------------------|---------------------------------------|------------------|--------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dags 04 of 205 |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 91 of 305 |





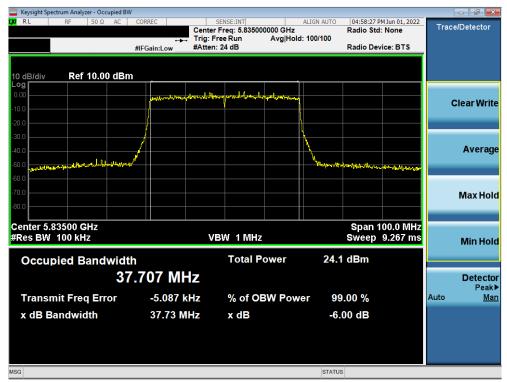
Plot 7-140. 6dB Bandwidth Plot SISO ANT1 (40MHz BW 802.11ac (UNII Band 3/4) - Ch. 167)



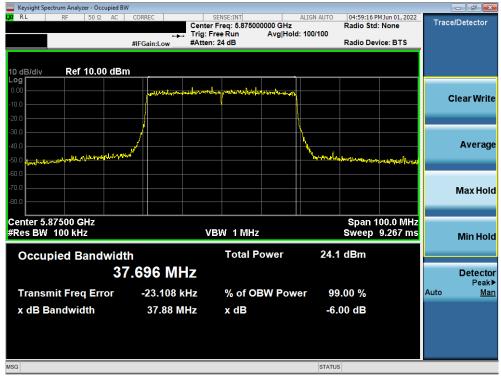
Plot 7-141. 6dB Bandwidth Plot SISO ANT1 (40MHz BW 802.11ac (UNII Band 4) - Ch. 175)

| FCC ID: A3LSMF721JPN | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
|------------------------|---------------------------------------|------------------|--------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 02 of 205 |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 92 of 305 |





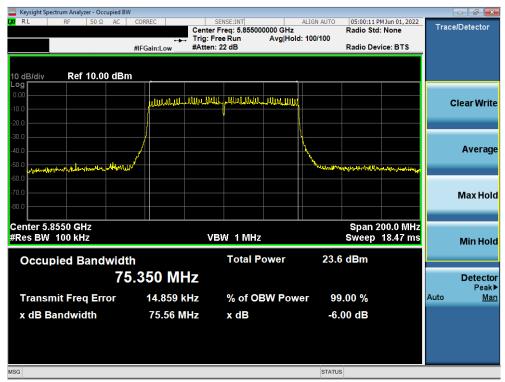
Plot 7-142. 6dB Bandwidth Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 3/4) - Ch. 167)



Plot 7-143. 6dB Bandwidth Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 4) - Ch. 175)

| FCC ID: A3LSMF721JPN | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
|------------------------|---------------------------------------|------------------|--------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 02 of 205 |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 93 of 305 |





Plot 7-144. 6dB Bandwidth Plot SISO ANT1 (80MHz BW 802.11ac (UNII Band 3/4) - Ch. 171)



Plot 7-145. 6dB Bandwidth Plot SISO ANT1 (80MHz BW 802.11ax (UNII Band 3/4) - Ch. 171)

| FCC ID: A3LSMF721JPN | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
|------------------------|---------------------------------------|------------------|--------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 04 of 205 |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 94 of 305 |





Plot 7-146. 6dB Bandwidth Plot SISO ANT1 (160MHz BW 802.11ac (UNII Band 3/4) - Ch. 163)



Plot 7-147. 6dB Bandwidth Plot SISO ANT1 (160MHz BW 802.11ax (UNII Band 3/4) - Ch. 163)

| FCC ID: A3LSMF721JPN | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
|------------------------|---------------------------------------|------------------|--------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 05 of 205 |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 95 of 305 |



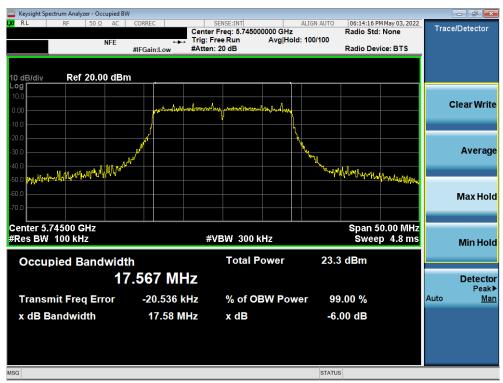
Antenna-2 6dB Bandwidth Measurements

| | Frequency [MHz] | Channel No. | 802.11 Mode | Data Rate [Mbps] | Measured 6dB Bandwidth [MHz] |
|------|--------------------|----------------|-------------|------------------|------------------------------------|
| | 5745 | 149 | а | 6 | 17.58 |
| | 5785 | 157 | а | 6 | 17.56 |
| | 5825 | 165 | а | 6 | 16.82 |
| | 5745 | 149 | n (20MHz) | 6.5/7.2 (MCS0) | 17.57 |
| | 5785 | 157 | n (20MHz) | 6.5/7.2 (MCS0) | 17.59 |
| | 5825 | 165 | n (20MHz) | 6.5/7.2 (MCS0) | 16.90 |
| က | 5745 | 149 | ax (20MHz) | 6.5/7.2 (MCS0) | 18.94 |
| Band | 5785 | 157 | ax (20MHz) | 6.5/7.2 (MCS0) | 18.92 |
| ä | 5825 | 165 | ax (20MHz) | 6.5/7.2 (MCS0) | 18.96 |
| | 5755 | 151 | n (40MHz) | 13.5/15 (MCS0) | 35.42 |
| | 5795 | 159 | n (40MHz) | 13.5/15 (MCS0) | 35.62 |
| | 5755 | 151 | ax (40MHz) | 13.5/15 (MCS0) | 37.94 |
| | 5795 | 159 | ax (40MHz) | 13.5/15 (MCS0) | 37.94 |
| | 5775 | 155 | ac (80MHz) | 29.3/32.5 (MCS0) | 75.59 |
| | 5775 | 155 | ax (80MHz) | 29.3/32.5 (MCS0) | 78.03 |

Table 7-6. Conducted Bandwidth Measurements ANT2

| FCC ID: A3LSMF721JPN | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
|------------------------|---------------------------------------|------------------|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dagg 06 of 205 |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 96 of 305 |





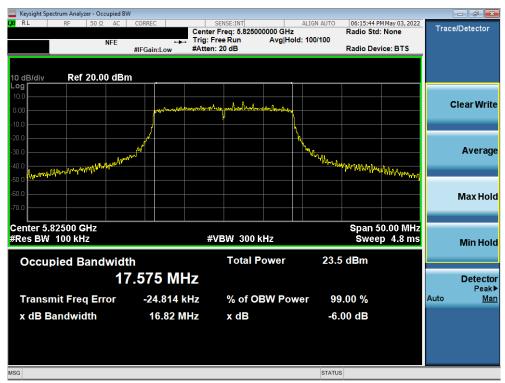
Plot 7-148. 6dB Bandwidth Plot ANT2 (802.11a (UNII Band 3) - Ch. 149)



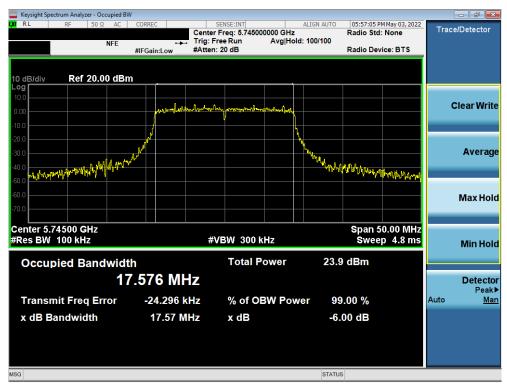
Plot 7-149. 6dB Bandwidth Plot ANT2 (802.11a (UNII Band 3) - Ch. 157)

| FCC ID: A3LSMF721JPN | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
|------------------------|---------------------------------------|------------------|--------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dags 07 of 205 |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 97 of 305 |





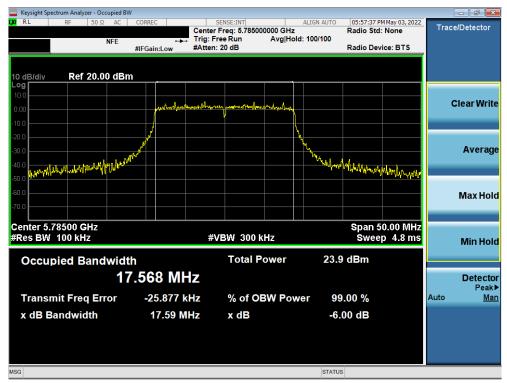
Plot 7-150. 6dB Bandwidth Plot ANT2 (802.11a (UNII Band 3) - Ch. 165)



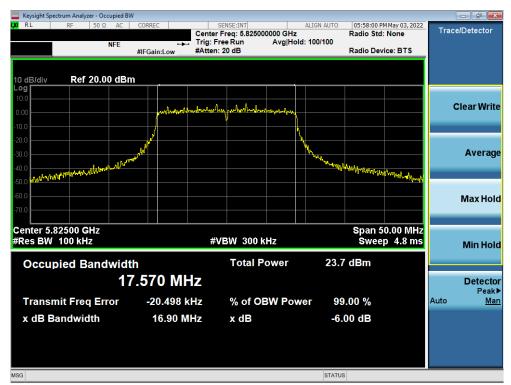
Plot 7-151. 6dB Bandwidth Plot ANT2 (20MHz BW 802.11n (UNII Band 3) - Ch. 149)

| FCC ID: A3LSMF721JPN | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
|------------------------|---------------------------------------|------------------|--------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dags 00 of 205 |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 98 of 305 |





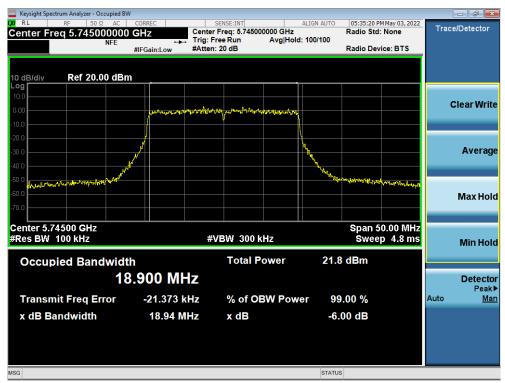
Plot 7-152. 6dB Bandwidth Plot ANT2 (20MHz BW 802.11n (UNII Band 3) - Ch. 157)



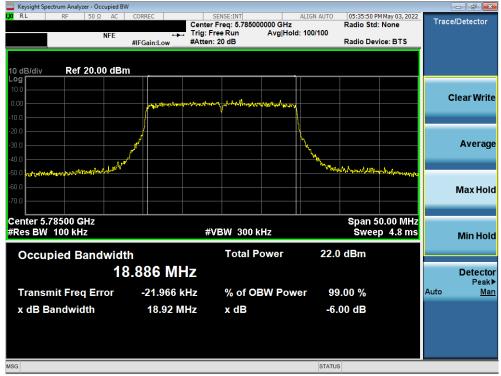
Plot 7-153. 6dB Bandwidth Plot ANT2 (20MHz BW 802.11n (UNII Band 3) - Ch. 165)

| FCC ID: A3LSMF721JPN | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
|------------------------|---------------------------------------|------------------|--------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dags 00 of 205 |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 99 of 305 |





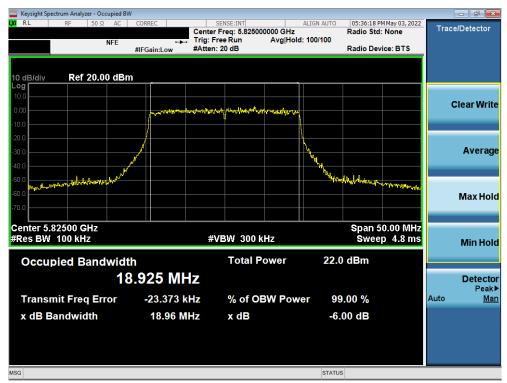
Plot 7-154. 6dB Bandwidth Plot ANT2 (20MHz BW 802.11ax (UNII Band 3) - Ch. 149)



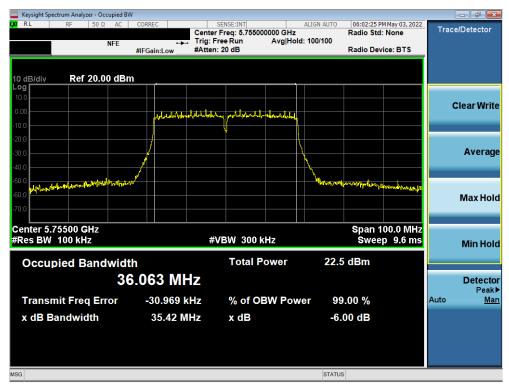
Plot 7-155. 6dB Bandwidth Plot ANT2 (20MHz BW 802.11ax (UNII Band 3) - Ch. 157)

| FCC ID: A3LSMF721JPN | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
|------------------------|---------------------------------------|------------------|--------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dags 400 of 205 |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 100 of 305 |





Plot 7-156. 6dB Bandwidth Plot ANT2 (20MHz BW 802.11ax (UNII Band 3) - Ch. 165)



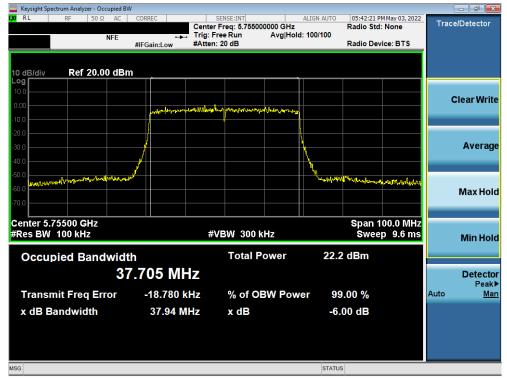
Plot 7-157. 6dB Bandwidth Plot ANT2 (40MHz BW 802.11n (UNII Band 3) - Ch. 151)

| FCC ID: A3LSMF721JPN | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
|------------------------|---------------------------------------|------------------|--------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 404 of 205 |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 101 of 305 |





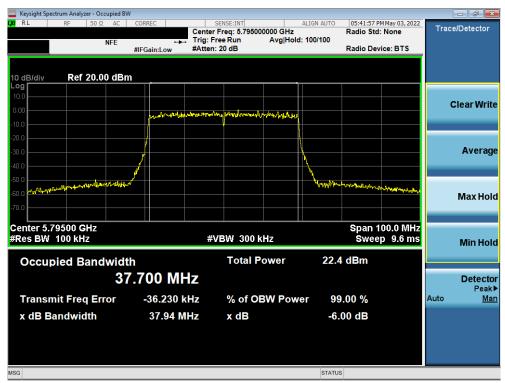
Plot 7-158. 6dB Bandwidth Plot ANT2 (40MHz BW 802.11n (UNII Band 3) - Ch. 159)



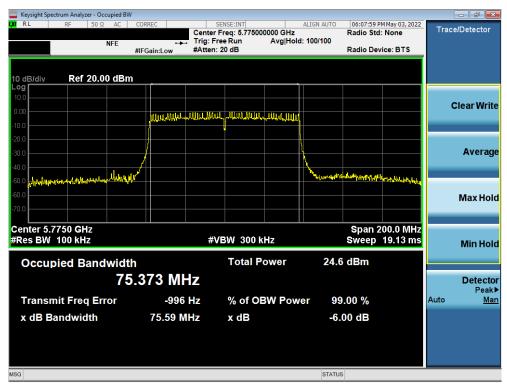
Plot 7-159. 6dB Bandwidth Plot ANT2 (40MHz BW 802.11ax (UNII Band 3) - Ch. 151)

| FCC ID: A3LSMF721JPN | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
|------------------------|---------------------------------------|------------------|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Do == 102 of 205 |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 102 of 305 |





Plot 7-160. 6dB Bandwidth Plot ANT2 (40MHz BW 802.11ax (UNII Band 3) - Ch. 159)



Plot 7-161. 6dB Bandwidth Plot ANT2 (80MHz BW 802.11ac (UNII Band 3) - Ch. 155)

| FCC ID: A3LSMF721JPN | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
|------------------------|---------------------------------------|------------------|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Do = 102 of 205 |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 103 of 305 |





Plot 7-162. 6dB Bandwidth Plot ANT2 (80MHz BW 802.11ax (UNII Band 3) - Ch. 155)

| FCC ID: A3LSMF721JPN | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
|------------------------|---------------------------------------|------------------|--------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 404 of 205 |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 104 of 305 |

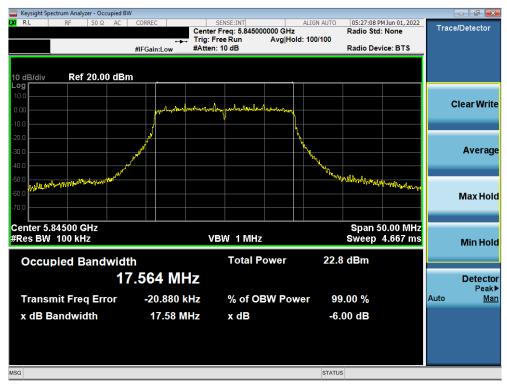


| | Frequency [MHz] | Channel No. | 802.11 Mode | Data Rate [Mbps] | Measured 6dB Bandwidth [MHz] |
|-----------|--------------------|----------------|-------------|------------------|------------------------------------|
| Band 3/4 | 5845 | 169 | а | 6 | 17.58 |
| Band 4 | 5865 | 173 | а | 6 | 16.35 |
| Dallu 4 | 5885 | 177 | а | 6 | 16.36 |
| Band 3/4 | 5845 | 169 | n (20MHz) | 6.5/7.2 (MCS0) | 17.59 |
| Band 4 | 5865 | 173 | n (20MHz) | 6.5/7.2 (MCS0) | 17.30 |
| Dallu 4 | 5885 | 177 | n (20MHz) | 6.5/7.2 (MCS0) | 17.56 |
| Band 3/4 | 5845 | 169 | ac (20MHz) | 6.5/7.2 (MCS0) | 17.33 |
| Band 4 | 5865 | 173 | ac (20MHz) | 6.5/7.2 (MCS0) | 17.53 |
| Dallu 4 | 5885 | 177 | ac (20MHz) | 6.5/7.2 (MCS0) | 17.05 |
| Band 3/4 | 5845 | 169 | ax (20MHz) | 6.5/7.2 (MCS0) | 18.87 |
| Band 4 | 5865 | 173 | ax (20MHz) | 6.5/7.2 (MCS0) | 18.98 |
| Dallu 4 | 5885 | 177 | ax (20MHz) | 6.5/7.2 (MCS0) | 19.00 |
| Band 3/4 | 5835 | 167 | n (40MHz) | 13.5/15 (MCS0) | 35.97 |
| Band 4 | 5875 | 175 | n (40MHz) | 13.5/15 (MCS0) | 36.16 |
| Band 3/4 | 5835 | 167 | ac (40MHz) | 13.5/15 (MCS0) | 36.06 |
| Band 4 | 5875 | 175 | ac (40MHz) | 13.5/15 (MCS0) | 36.37 |
| Band 3/4 | 5835 | 167 | ax (40MHz) | 13.5/15 (MCS0) | 37.62 |
| Band 4 | 5875 | 175 | ax (40MHz) | 13.5/15 (MCS0) | 38.00 |
| | 5855 | 171 | ac (80MHz) | 29.3/32.5 (MCS0) | 75.71 |
| Band 3/4 | 5855 | 171 | ax (80MHz) | 29.3/32.5 (MCS0) | 77.83 |
| ballu 5/4 | 5815 | 163 | ac (160MHz) | 58.5/65 (MCS0) | 155.80 |
| | 5815 | 163 | ax (160MHz) | 58.5/65 (MCS0) | 156.10 |

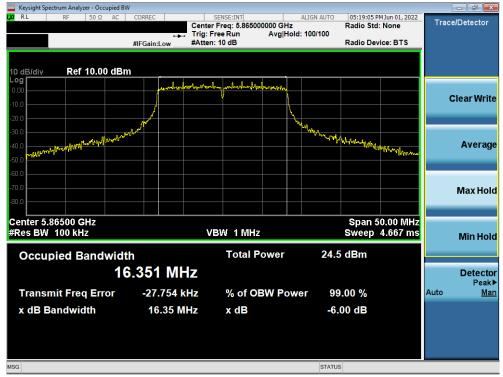
Table 7-7. Conducted Bandwidth Measurements Band 4 ANT2

| FCC ID: A3LSMF721JPN | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
|------------------------|---------------------------------------|------------------|--------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 405 of 205 |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 105 of 305 |





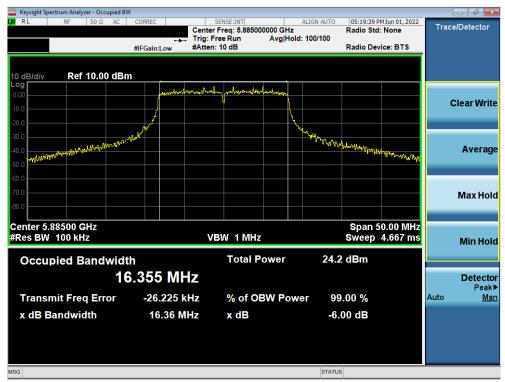
Plot 7-163. 6dB Bandwidth Plot ANT2 (802.11a (UNII Band 3/4) - Ch. 169)



Plot 7-164. 6dB Bandwidth Plot ANT2 (802.11a (UNII Band 4) - Ch. 173)

| FCC ID: A3LSMF721JPN | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
|------------------------|---------------------------------------|------------------|--------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 400 of 205 |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 106 of 305 |





Plot 7-165. 6dB Bandwidth Plot ANT2 (802.11a (UNII Band 4) - Ch. 177)



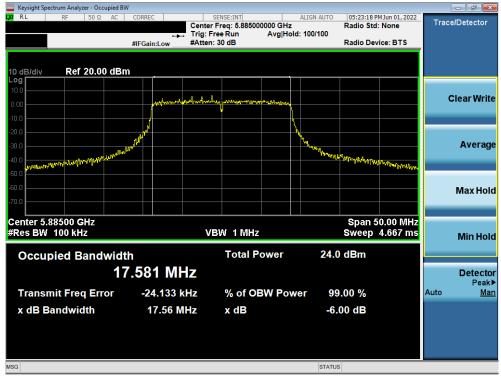
Plot 7-166. 6dB Bandwidth Plot ANT2 (20MHz BW 802.11n (UNII Band 3/4) - Ch. 169)

| FCC ID: A3LSMF721JPN | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
|------------------------|---------------------------------------|------------------|--------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 407 of 205 |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 107 of 305 |





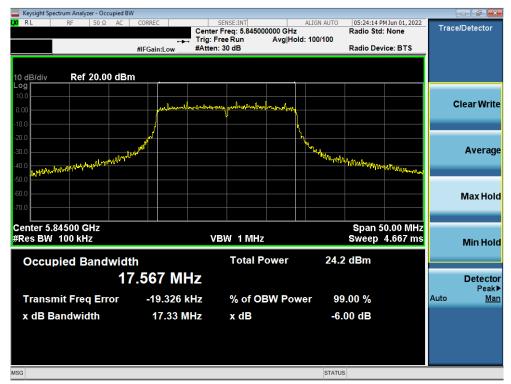
Plot 7-167. 6dB Bandwidth Plot ANT2 (20MHz BW 802.11n (UNII Band 4) - Ch. 173)



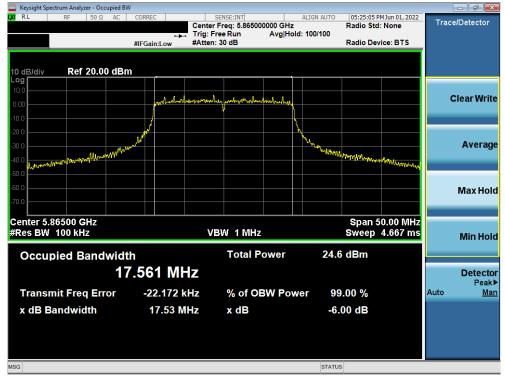
Plot 7-168. 6dB Bandwidth Plot ANT2 (20MHz BW 802.11n (UNII Band 4) - Ch. 177)

| FCC ID: A3LSMF721JPN | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
|------------------------|---------------------------------------|------------------|--------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 400 of 205 |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 108 of 305 |





Plot 7-169. 6dB Bandwidth Plot ANT2 (20MHz BW 802.11ac (UNII Band 3/4) - Ch. 169)



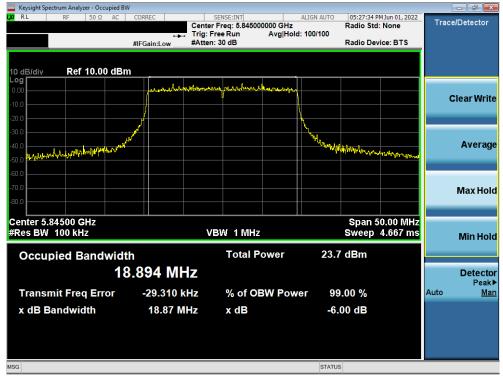
Plot 7-170. 6dB Bandwidth Plot ANT2 (20MHz BW 802.11ac (UNII Band 4) - Ch. 173)

| FCC ID: A3LSMF721JPN | | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager | | |
|------------------------|----------------------|---------------------------------------|-----------------------------------|--|--|
| Test Report S/N: | Test Dates: | EUT Type: | Do ac 100 of 205 | | |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 109 of 305 | | |





Plot 7-171. 6dB Bandwidth Plot ANT2 (20MHz BW 802.11ac (UNII Band 4) - Ch. 177)



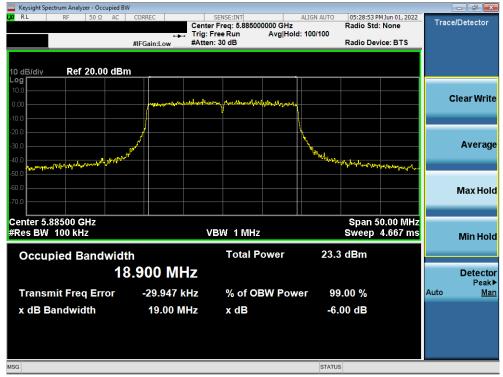
Plot 7-172. 6dB Bandwidth Plot ANT2 (20MHz BW 802.11ax (UNII Band 3/4) - Ch. 169)

| FCC ID: A3LSMF721JPN | | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager | |
|------------------------|----------------------|---------------------------------------|--------------------------------|--|
| Test Report S/N: | Test Dates: | EUT Type: | Dage 440 of 205 | |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 110 of 305 | |





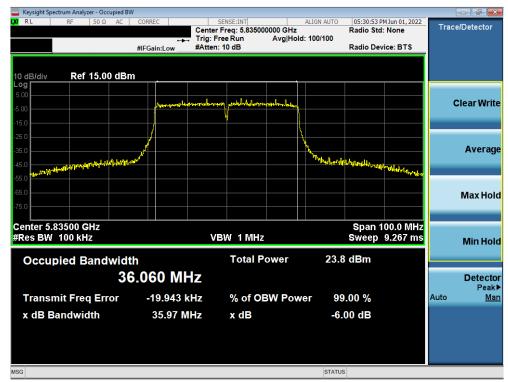
Plot 7-173. 6dB Bandwidth Plot ANT2 (20MHz BW 802.11ax (UNII Band 4) - Ch. 173)



Plot 7-174. 6dB Bandwidth Plot ANT2 (20MHz BW 802.11ax (UNII Band 4) - Ch. 177)

| FCC ID: A3LSMF721JPN | | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager | | |
|------------------------|----------------------|---------------------------------------|-----------------------------------|--|--|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 111 of 205 | | |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 111 of 305 | | |





Plot 7-175. 6dB Bandwidth Plot ANT2 (40MHz BW 802.11n (UNII Band 3/4) - Ch. 167)



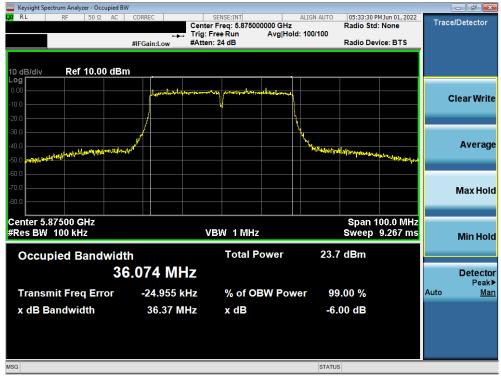
Plot 7-176. 6dB Bandwidth Plot ANT2 (40MHz BW 802.11n (UNII Band 4) - Ch. 175)

| FCC ID: A3LSMF721JPN | | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager | | |
|------------------------|----------------------|---------------------------------------|-----------------------------------|--|--|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 442 of 205 | | |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 112 of 305 | | |





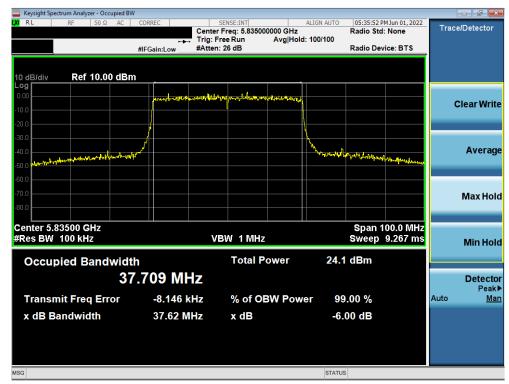
Plot 7-177. 6dB Bandwidth Plot ANT2 (40MHz BW 802.11ac (UNII Band 3/4) - Ch. 167)



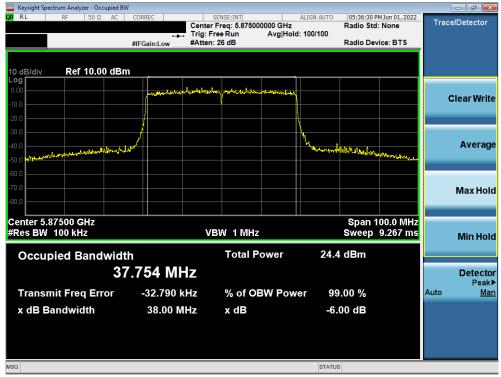
Plot 7-178. 6dB Bandwidth Plot ANT2 (40MHz BW 802.11ac (UNII Band 4) - Ch. 175)

| FCC ID: A3LSMF721JPN | | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager | | |
|------------------------|----------------------|---------------------------------------|-----------------------------------|--|--|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 442 of 205 | | |
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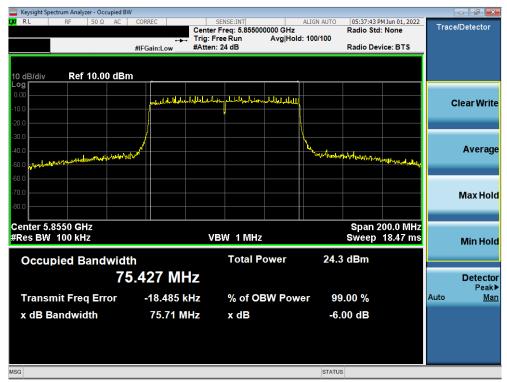
Plot 7-179. 6dB Bandwidth Plot ANT2 (40MHz BW 802.11ax (UNII Band 3/4) - Ch. 167)



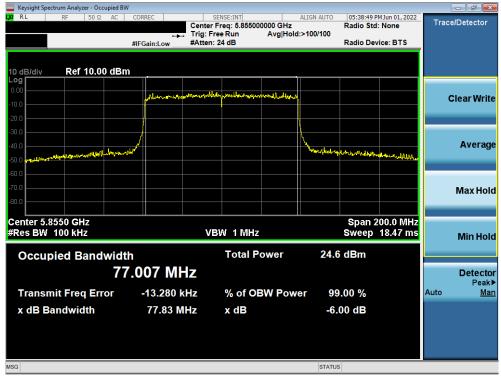
Plot 7-180. 6dB Bandwidth Plot ANT2 (40MHz BW 802.11ax (UNII Band 4) - Ch. 175)

| FCC ID: A3LSMF721JPN | | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager | | |
|------------------------|----------------------|---------------------------------------|-----------------------------------|--|--|
| Test Report S/N: | Test Dates: | EUT Type: | Dog 111 of 205 | | |
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Plot 7-181. 6dB Bandwidth Plot ANT2 (80MHz BW 802.11ac (UNII Band 3/4) - Ch. 171)



Plot 7-182. 6dB Bandwidth Plot ANT2 (80MHz BW 802.11ax (UNII Band 3/4) - Ch. 171)

| FCC ID: A3LSMF721JPN | | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager | | |
|------------------------|----------------------|---------------------------------------|-----------------------------------|--|--|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 115 of 205 | | |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 115 of 305 | | |





Plot 7-183. 6dB Bandwidth Plot ANT2 (160MHz BW 802.11ac (UNII Band 3/4) - Ch. 163)



Plot 7-184. 6dB Bandwidth Plot ANT2 (160MHz BW 802.11ax (UNII Band 3/4) - Ch. 163)

| FCC ID: A3LSMF721JPN | | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager | | |
|------------------------|----------------------|---------------------------------------|-----------------------------------|--|--|
| Test Report S/N: | Test Dates: | EUT Type: | Dog 116 of 205 | | |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 116 of 305 | | |



7.4 UNII Output Power Measurement – 802.11a/n/ac/ax

§15.407(a.1.iv) §15.407(a.2) §15.407(a.3); RSS-247 [6.2]

Test Overview and Limits

A transmitter antenna terminal of the EUT is connected to the input of an RF pulse power sensor. Measurement is made using a broadband average power meter 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.

In the 5.15 – 5.25GHz band, the maximum permissible conducted output power is 250mW (23.98dBm). The maximum e.i.r.p. shall not exceed the lesser of 200 mW or 10 + 10 log10B, dBm.

In the 5.25 – 5.35GHz band, the maximum permissible conducted output power is the lesser of 250mW (23.98dBm) or 11 dBm + $10\log_{10}(26dB \ BW) = 11 \ dBm + 10\log_{10}(19.76) = 23.96dBm$. The maximum e.i.r.p. shall not exceed the lesser of 1.0 W or 17 + 10 log10B, dBm.

In the 5.47 – 5.725GHz band, the maximum permissible conducted output power is the lesser of 250mW (23.98dBm) or 11 dBm + $10log_{10}(26dB BW) = 11 dBm + 10log_{10}(19.95) = 24.00dBm$. The maximum e.i.r.p. shall not exceed the lesser of 1.0 W or 17 + 10 log10B, dBm.

In the 5.725 – 5.850GHz band, the maximum permissible conducted output power is 1W (30dBm). The maximum e.i.r.p. is 36 dBm.

In the 5.850 - 5.895 GHz band, the maximum permissible e.i.r.p is 30dBm

Test Procedure Used

ANSI C63.10-2013 – Section 12.3.3.2 Method PM-G KDB 789033 D02 v02r01 – Section E)3)b) Method PM-G ANSI C63.10-2013 – Section 14.2 Measure-and-Sum Technique KDB 662911 v02r01 – Section E)1) Measure-and-Sum Technique

Test Settings

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter. The trace was averaged over 100 traces to obtain the final measured average power.

Test Setup

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



Figure 7-3. Test Instrument & Measurement Setup

Test Notes

Per RSS-247 Section 6.2.3, transmission on channels which overlap the 5600-5650 MHz is prohibited. This device operates under these frequencies only under the control of a certified master device and does not support active scanning on these channels. This device does not transmit any beacons or initiate any transmissions in UNII Bands 2A or 2C.

| FCC ID: A3LSMF721JPN | | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager | |
|------------------------|----------------------|---------------------------------------|-----------------------------------|--|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 117 of 205 | |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 117 of 305 | |



SISO Antenna-1 Conducted Output Power Measurements

| | Freq [MHz] | Channel | Detector | | IEEE Transmission Mode | | | | Conducted Power | Ant. Gain [dBi] | Max e.i.r.p. | Max e.i.r.p. | e.i.r.p. Margin [dB] |
|-------------|------------|---------|----------|---------|------------------------|----------|----------|-------|--------------------|--------------------|--------------|--------------|-------------------------|
| | | | | 802.11a | 802.11n | 802.11ac | 802.11ax | [dBm] | Margin [dB] | [0.5.] | [uz] | | a. g [u.b] |
| | 5180 | 36 | AVG | 16.64 | 16.60 | 16.52 | 16.55 | 23.98 | -7.34 | -4.40 | 12.24 | 23.01 | -10.77 |
| <u>:</u> | 5200 | 40 | AVG | 16.82 | 16.80 | 16.57 | 16.54 | 23.98 | -7.16 | -4.40 | 12.42 | 23.01 | -10.59 |
| ᅙ | 5220 | 44 | AVG | 16.98 | 16.63 | 16.49 | 16.48 | 23.98 | -7.00 | -4.40 | 12.58 | 23.01 | -10.43 |
| `` \ | 5240 | 48 | AVG | 16.72 | 16.73 | 16.47 | 16.56 | 23.98 | -7.25 | -4.40 | 12.33 | 23.01 | -10.68 |
| andwidth | 5260 | 52 | AVG | 16.69 | 16.66 | 16.51 | 16.70 | 23.98 | -7.29 | -4.60 | 12.09 | 30.00 | -17.91 |
| ā | 5280 | 56 | AVG | 16.49 | 16.45 | 16.47 | 16.49 | 23.98 | -7.49 | -4.60 | 11.89 | 30.00 | -18.11 |
| <u>m</u> | 5300 | 60 | AVG | 16.36 | 16.32 | 16.50 | 16.52 | 23.98 | -7.48 | -4.60 | 11.90 | 30.00 | -18.10 |
| Ŧ | 5320 | 64 | AVG | 16.89 | 16.54 | 16.74 | 16.77 | 23.98 | -7.09 | -4.60 | 12.29 | 30.00 | -17.71 |
| = | 5500 | 100 | AVG | 16.43 | 16.84 | 16.39 | 16.47 | 23.98 | -7.14 | -4.80 | 12.04 | 30.00 | -17.96 |
| (20M | 5600 | 120 | AVG | 16.47 | 16.66 | 16.34 | 16.55 | 23.98 | -7.32 | -4.80 | 11.86 | - | - |
| 2 | 5620 | 124 | AVG | 16.64 | 16.40 | 16.52 | 16.74 | 23.98 | -7.34 | -4.80 | 11.84 | - | - |
| N | 5720 | 144 | AVG | 16.59 | 16.91 | 16.78 | 16.22 | 23.98 | -7.07 | -4.80 | 12.11 | 30.00 | -17.89 |
| E E | 5745 | 149 | AVG | 16.64 | 16.82 | 16.52 | 16.12 | 30.00 | -13.18 | -5.00 | 11.82 | - | - |
| 50 | 5785 | 157 | AVG | 16.65 | 16.56 | 16.46 | 16.33 | 30.00 | -13.35 | -5.00 | 11.65 | - | - |
| | 5825 | 165 | AVG | 16.44 | 16.63 | 16.67 | 16.48 | 30.00 | -13.33 | -5.00 | 11.67 | - | - |
| | 5845 | 169 | AVG | 16.67 | 16.72 | 16.67 | 16.70 | - | - | -5.00 | 11.72 | 30.00 | -18.28 |
| | 5865 | 173 | AVG | 16.50 | 16.63 | 16.54 | 16.72 | - | - | -5.00 | 11.63 | 30.00 | -18.37 |
| | 5885 | 177 | AVG | 16.75 | 16.71 | 16.13 | 16.54 | - | - | -5.00 | 11.75 | 30.00 | -18.25 |

Table 7-8. SISO ANT1 20MHz BW (UNII) Maximum Conducted Output Power

| andwidth) | Freq [MHz] Cha | | Detector | IEEE Transmission Mode | | | Conducted Power Limit | Conducted Power | Ant. Gain [dBi] | Max e.i.r.p. | Max e.i.r.p. | e.i.r.p. Margin [dB] |
|------------|----------------|-----|----------|------------------------|----------|----------|--------------------------|-----------------|--------------------|--------------|----------------|-------------------------|
| <u>5</u> | | | | 802.11n | 802.11ac | 802.11ax | [dBm] | Margin [dB] | [GDI] | [ubiii] | Liniit [GDIII] | margin [ab] |
| Ĭ | 5190 | 38 | AVG | 14.40 | 14.37 | 14.90 | 23.98 | -9.58 | -4.40 | 10.00 | 23.01 | -13.01 |
| Ď | 5230 | 46 | AVG | 14.63 | 14.58 | 14.96 | 23.98 | -9.35 | -4.40 | 10.23 | 23.01 | -12.78 |
| | 5270 | 54 | AVG | 14.35 | 14.38 | 14.22 | 23.98 | -9.60 | -4.60 | 9.78 | 30.00 | -20.22 |
| Ω | 5310 | 62 | AVG | 14.85 | 14.89 | 14.67 | 23.98 | -9.09 | -4.60 | 10.29 | 30.00 | -19.71 |
| ¥ | 5510 | 102 | AVG | 14.82 | 14.88 | 14.70 | 23.98 | -9.10 | -4.80 | 10.08 | 30.00 | -19.92 |
| ₫ | 5590 | 118 | AVG | 14.85 | 14.86 | 14.69 | 23.98 | -9.12 | -4.80 | 10.06 | - | - |
| 5 | 5630 | 126 | AVG | 14.96 | 14.97 | 14.76 | 23.98 | -9.01 | -4.80 | 10.17 | - | - |
| (40 | 5710 | 142 | AVG | 14.94 | 14.84 | 14.70 | 23.98 | -9.04 | -4.80 | 10.14 | 30.00 | -19.86 |
| <u>N</u> | 5755 | 151 | AVG | 14.83 | 14.88 | 14.67 | 30.00 | -15.12 | -5.00 | 9.88 | - | - |
| 一 | 5795 | 159 | AVG | 14.91 | 14.97 | 14.81 | 30.00 | -15.03 | -5.00 | 9.97 | - | - |
| 5 G | 5835 | 167 | AVG | 14.99 | 14.67 | 14.90 | - | - | -5.00 | 9.99 | 30.00 | -20.01 |
| ., | 5875 | 175 | AVG | 14.72 | 14.69 | 14.91 | - | - | -5.00 | 9.72 | 30.00 | -20.28 |

Table 7-9. SISO ANT1 40MHz BW (UNII) Maximum Conducted Output Power

| FCC ID: A3LSMF721JPN | | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager | | |
|------------------------|----------------------|---------------------------------------|-----------------------------------|--|--|
| Test Report S/N: | Test Dates: | EUT Type: | Dage 440 of 205 | | |
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| idth) | Freq [MHz] | Channel | Detector | IEEE Transn | nission Mode | Conducted Power Limit | Conducted Power | Ant. Gain [dBi] | Max e.i.r.p. | Max e.i.r.p. Limit [dBm] | e.i.r.p. Margin [dB] | |
|-------|------------|---------|----------|-------------|--------------|--------------------------|--------------------|--------------------|--------------|-----------------------------|-------------------------|--|
| iy | | | | 802.11ac | 802.11ax | [dBm] | Margin [dB] | [42.] | [] | | g [u=1 | |
| Banı | 5210 | 42 | AVG | 13.66 | 13.67 | 23.98 | -10.32 | -4.40 | 9.26 | 23.01 | -13.75 | |
| z B | 5290 | 58 | AVG | 13.58 | 13.60 | 23.98 | -10.40 | -4.60 | 8.98 | 30.00 | -21.02 | |
| Ξ̈́ | 5530 | 106 | AVG | 13.56 | 13.58 | 23.98 | -10.42 | -4.80 | 8.76 | 30.00 | -21.24 | |
| (80MH | 5610 | 122 | AVG | 13.63 | 13.62 | 23.98 | -10.35 | -4.80 | 8.83 | - | - | |
| 3) z | 5690 | 138 | AVG | 13.56 | 13.66 | 23.98 | -10.42 | -4.80 | 8.76 | 30.00 | -21.24 | |
| | 5775 155 | AVG | 13.94 | 13.92 | 30.00 | -16.06 | -5.00 | 8.94 | - | - | | |
| 56 | 5855 | 171 | AVG | 13.95 | 13.91 | - | - | -5.00 | 8.95 | 30.00 | -21.05 | |

Table 7-10. SISO ANT1 80MHz BW (UNII) Maximum Conducted Output Power

| MHz th) | Freq [MHz] | Channel | Detector | IEEE Transm | nission Mode | Conducted Power Limit | Conducted Power | Ant. Gain [dBi] | Max e.i.r.p. | Max e.i.r.p. | e.i.r.p. Margin [dB] | |
|------------|------------|---------|----------|-------------|--------------|--------------------------|--------------------|--------------------|--------------|--------------|-------------------------|--|
| 160 wid | | | | 802.11ac | 802.11ax | [dBm] | Margin [dB] | [42.] | [] | [| J . L | |
| 2 Z | 5250 | 50 | AVG | 13.44 | 13.93 | 23.98 | -10.54 | -4.60 | 8.84 | 23.01 | -14.17 | |
| 3H; | 5570 | 114 | AVG | 13.39 | 13.35 | 30.00 | -16.61 | -4.80 | 8.59 | - | - | |
| 52 – | 5815 | 163 | AVG | 13.81 | 13.74 | - | - | -5.00 | 8.81 | 30.00 | -21.19 | |

Table 7-11. SISO ANT1 160MHz BW (UNII) Maximum Conducted Output Power

| FCC ID: A3LSMF721JPN | | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
|------------------------|----------------------|---------------------------------------|--------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dags 110 of 205 |
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MIMO Maximum Conducted Output Power Measurements

| | Freq [MHz] | Channel | Detector | Conc | lucted Power [| dBm] | Conducted Power Limit | Conducted Power | Directional Ant. Gain | Max e.i.r.p. | Max e.i.r.p. | e.i.r.p. Margin [dB] |
|-----------|------------|---------|----------|-------|----------------|-------|--------------------------|-----------------|--------------------------|--------------|--------------|-------------------------|
| | | | | ANT1 | ANT2 | MIMO | [dBm] | Margin [dB] | [dBi] | [ubiii] | Linia (GDin) | margin [ab] |
| | 5180 | 36 | AVG | 16.60 | 16.54 | 19.58 | 23.98 | -4.40 | -2.11 | 17.47 | 23.01 | -5.54 |
| <u> </u> | 5200 | 40 | AVG | 16.80 | 16.61 | 19.72 | 23.98 | -4.26 | -2.11 | 17.61 | 23.01 | -5.40 |
| <u>5</u> | 5220 | 44 | AVG | 16.63 | 16.50 | 19.58 | 23.98 | -4.40 | -2.11 | 17.47 | 23.01 | -5.54 |
| `₹ | 5240 | 48 | AVG | 16.73 | 16.44 | 19.60 | 23.98 | -4.38 | -2.11 | 17.49 | 23.01 | -5.52 |
| Bandwidth | 5260 | 52 | AVG | 16.66 | 16.36 | 19.52 | 23.98 | -4.46 | -2.31 | 17.21 | 30.00 | -12.79 |
| ਕ | 5280 | 56 | AVG | 16.45 | 16.33 | 19.40 | 23.98 | -4.58 | -2.31 | 17.09 | 30.00 | -12.91 |
| a | 5300 | 60 | AVG | 16.32 | 16.26 | 19.30 | 23.98 | -4.68 | -2.31 | 16.99 | 30.00 | -13.01 |
| N N | 5320 | 64 | AVG | 16.54 | 16.11 | 19.34 | 23.98 | -4.64 | -2.31 | 17.03 | 30.00 | -12.97 |
| ⇒ | 5500 | 100 | AVG | 16.84 | 16.59 | 19.73 | 23.98 | -4.25 | -2.37 | 17.36 | 30.00 | -12.64 |
| (20MHz | 5600 | 120 | AVG | 16.66 | 16.57 | 19.63 | 23.98 | -4.35 | -2.37 | 17.26 | - | - |
| 2 | 5620 | 124 | AVG | 16.40 | 16.55 | 19.49 | 23.98 | -4.49 | -2.37 | 17.12 | - | - |
| ¥ | 5720 | 144 | AVG | 16.91 | 16.20 | 19.58 | 23.98 | -4.40 | -2.37 | 17.21 | 30.00 | -12.79 |
| 五 | 5745 | 149 | AVG | 16.82 | 16.74 | 19.79 | 30.00 | -10.21 | -2.48 | 17.31 | - | - |
| 5G | 5785 | 157 | AVG | 16.56 | 16.77 | 19.68 | 30.00 | -10.32 | -2.48 | 17.20 | - | - |
| | 5825 | 165 | AVG | 16.63 | 16.91 | 19.78 | 30.00 | -10.22 | -2.48 | 17.30 | - | - |
| | 5845 | 169 | AVG | 16.72 | 16.16 | 19.46 | - | - | -2.48 | 16.98 | 30.00 | -13.02 |
| | 5865 | 173 | AVG | 16.63 | 16.22 | 19.44 | - | 1 | -2.48 | 16.96 | 30.00 | -13.04 |
| | 5885 | 177 | AVG | 16.71 | 16.63 | 19.68 | - | - | -2.48 | 17.20 | 30.00 | -12.80 |

Table 7-12. MIMO 20MHz BW 802.11n (UNII) Maximum Conducted Output Power

| | Freq [MHz] | Channel | Detector | Conc | lucted Power [| dBm] | Conducted Power Limit | Conducted Power | Directional Ant. Gain | Max e.i.r.p. | Max e.i.r.p. Limit [dBm] | e.i.r.p. Margin [dB] |
|---|------------|---------|----------|-------|----------------|-------|--------------------------|-----------------|--------------------------|--------------|-----------------------------|-------------------------|
| | | | | ANT1 | ANT2 | MIMO | [dBm] | Margin [dB] | [dBi] | [42] | | 9 [] |
| | 5180 | 36 | AVG | 16.52 | 16.64 | 19.59 | 23.98 | -4.39 | -2.11 | 17.48 | 23.01 | -5.53 |
| \subseteq | 5200 | 40 | AVG | 16.57 | 16.71 | 19.65 | 23.98 | -4.33 | -2.11 | 17.54 | 23.01 | -5.47 |
| andwidth | 5220 | 44 | AVG | 16.49 | 16.26 | 19.39 | 23.98 | -4.59 | -2.11 | 17.28 | 23.01 | -5.73 |
| \ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \ | 5240 | 48 | AVG | 16.47 | 16.43 | 19.46 | 23.98 | -4.52 | -2.11 | 17.35 | 23.01 | -5.66 |
| b | 5260 | 52 | AVG | 16.51 | 16.38 | 19.46 | 23.98 | -4.52 | -2.31 | 17.15 | 30.00 | -12.85 |
| a | 5280 | 56 | AVG | 16.47 | 16.96 | 19.73 | 23.98 | -4.25 | -2.31 | 17.42 | 30.00 | -12.58 |
| Ω | 5300 | 60 | AVG | 16.50 | 16.94 | 19.74 | 23.98 | -4.24 | -2.31 | 17.43 | 30.00 | -12.57 |
| Ž. | 5320 | 64 | AVG | 16.74 | 16.81 | 19.79 | 23.98 | -4.19 | -2.31 | 17.48 | 30.00 | -12.52 |
| (20MHz | 5500 | 100 | AVG | 16.39 | 16.83 | 19.63 | 23.98 | -4.35 | -2.37 | 17.26 | 30.00 | -12.74 |
| 6 | 5600 | 120 | AVG | 16.34 | 16.76 | 19.57 | 23.98 | -4.41 | -2.37 | 17.20 | - | - |
| (2 | 5620 | 124 | AVG | 16.52 | 16.67 | 19.61 | 23.98 | -4.37 | -2.37 | 17.24 | - | - |
| Ŧ | 5720 | 144 | AVG | 16.78 | 16.53 | 19.67 | 23.98 | -4.31 | -2.37 | 17.30 | 30.00 | -12.70 |
| 一 | 5745 | 149 | AVG | 16.52 | 16.96 | 19.76 | 30.00 | -10.24 | -2.48 | 17.28 | - | - |
| 5G | 5785 | 157 | AVG | 16.46 | 16.56 | 19.52 | 30.00 | -10.48 | -2.48 | 17.04 | - | - |
| | 5825 | 165 | AVG | 16.67 | 16.61 | 19.65 | 30.00 | -10.35 | -2.48 | 17.17 | - | - |
| | 5845 | 169 | AVG | 16.67 | 16.60 | 19.65 | - | - | -2.48 | 17.17 | 30.00 | -12.83 |
| | 5865 | 173 | AVG | 16.54 | 16.62 | 19.59 | - | - | -2.48 | 17.11 | 30.00 | -12.89 |
| | 5885 | 177 | AVG | 16.13 | 16.64 | 19.40 | - | - | -2.48 | 16.92 | 30.00 | -13.08 |

Table 7-13. MIMO 20MHz BW 802.11ac (UNII) Maximum Conducted Output Power

| FCC ID: A3LSMF721JPN | | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
|------------------------|----------------------|---------------------------------------|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Do == 120 of 205 |
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| | Freq [MHz] | | Detector | Conc | lucted Power [| dBm] | Conducted Power Limit | Conducted Power | Directional Ant. Gain | Max e.i.r.p. | Max e.i.r.p. | e.i.r.p. Margin [dB] |
|----------|------------|-----|----------|-------|----------------|-------|--------------------------|-----------------|--------------------------|--------------|--------------|-------------------------|
| | | | | ANT1 | ANT2 | MIMO | [dBm] | Margin [dB] | [dBi] | [42] | | 9 [42] |
| | 5180 | 36 | AVG | 16.64 | 16.84 | 19.75 | 23.98 | -4.23 | -2.11 | 17.64 | 23.01 | -5.37 |
| <u> </u> | 5200 | 40 | AVG | 16.82 | 16.87 | 19.86 | 23.98 | -4.12 | -2.11 | 17.75 | 23.01 | -5.26 |
| andwidth | 5220 | 44 | AVG | 16.98 | 16.67 | 19.84 | 23.98 | -4.14 | -2.11 | 17.73 | 23.01 | -5.28 |
| ₹ | 5240 | 48 | AVG | 16.72 | 16.56 | 19.65 | 23.98 | -4.33 | -2.11 | 17.54 | 23.01 | -5.47 |
| ק | 5260 | 52 | AVG | 16.69 | 16.55 | 19.63 | 23.98 | -4.35 | -2.31 | 17.32 | 30.00 | -12.68 |
| <u>ਕ</u> | 5280 | 56 | AVG | 16.49 | 16.51 | 19.51 | 23.98 | -4.47 | -2.31 | 17.20 | 30.00 | -12.80 |
| <u> </u> | 5300 | 60 | AVG | 16.36 | 16.45 | 19.42 | 23.98 | -4.56 | -2.31 | 17.11 | 30.00 | -12.89 |
| N N | 5320 | 64 | AVG | 16.89 | 16.93 | 19.92 | 23.98 | -4.06 | -2.31 | 17.61 | 30.00 | -12.39 |
| (20MHz | 5500 | 100 | AVG | 16.43 | 16.92 | 19.69 | 23.98 | -4.29 | -2.37 | 17.32 | 30.00 | -12.68 |
| ō | 5600 | 120 | AVG | 16.47 | 16.85 | 19.67 | 23.98 | -4.31 | -2.37 | 17.30 | - | - |
| 2 | 5620 | 124 | AVG | 16.64 | 16.79 | 19.73 | 23.98 | -4.25 | -2.37 | 17.36 | - | - |
| Hz | 5720 | 144 | AVG | 16.59 | 16.62 | 19.62 | 23.98 | -4.36 | -2.37 | 17.25 | 30.00 | -12.75 |
| 一 | 5745 | 149 | AVG | 16.64 | 16.83 | 19.75 | 30.00 | -10.25 | -2.48 | 17.27 | - | - |
| 5G | 5785 | 157 | AVG | 16.65 | 16.62 | 19.65 | 30.00 | -10.35 | -2.48 | 17.17 | - | - |
| | 5825 | 165 | AVG | 16.44 | 16.76 | 19.61 | 30.00 | -10.39 | -2.48 | 17.13 | - | - |
| | 5845 | 169 | AVG | 16.67 | 16.65 | 19.67 | - | - | -2.48 | 17.19 | 30.00 | -12.81 |
| | 5865 | 173 | AVG | 16.50 | 16.75 | 19.64 | - | - | -2.48 | 17.16 | 30.00 | -12.84 |
| | 5885 | 177 | AVG | 16.75 | 16.72 | 19.75 | - | - | -2.48 | 17.27 | 30.00 | -12.73 |

Table 7-14. MIMO 20MHz BW 802.11a (UNII) Maximum Conducted Output Power

| | Freq [MHz] | Channel | Detector | Conc | lucted Power [| dBm] | Conducted Power Limit | Conducted Power | Directional Ant. Gain | Max e.i.r.p. | Max e.i.r.p. | e.i.r.p. Margin [dB] |
|-----------|------------|---------|----------|-------|----------------|-------|--------------------------|--------------------|--------------------------|--------------|---------------|-------------------------|
| | | | | ANT1 | ANT2 | MIMO | [dBm] | Margin [dB] | [dBi] | [ubiii] | Liniit [GDin] | margin [ab] |
| | 5180 | 36 | AVG | 16.55 | 16.70 | 19.64 | 23.98 | -4.34 | -2.11 | 17.53 | 23.01 | -5.48 |
| <u> </u> | 5200 | 40 | AVG | 16.54 | 16.71 | 19.64 | 23.98 | -4.34 | -2.11 | 17.53 | 23.01 | -5.48 |
| Bandwidth | 5220 | 44 | AVG | 16.48 | 16.51 | 19.51 | 23.98 | -4.47 | -2.11 | 17.40 | 23.01 | -5.61 |
| <u>\}</u> | 5240 | 48 | AVG | 16.56 | 16.45 | 19.52 | 23.98 | -4.46 | -2.11 | 17.41 | 23.01 | -5.60 |
| و | 5260 | 52 | AVG | 16.70 | 16.39 | 19.56 | 23.98 | -4.42 | -2.31 | 17.25 | 30.00 | -12.75 |
| <u> </u> | 5280 | 56 | AVG | 16.49 | 16.37 | 19.44 | 23.98 | -4.54 | -2.31 | 17.13 | 30.00 | -12.87 |
| | 5300 | 60 | AVG | 16.52 | 16.36 | 19.45 | 23.98 | -4.53 | -2.31 | 17.14 | 30.00 | -12.86 |
| H | 5320 | 64 | AVG | 16.77 | 16.82 | 19.81 | 23.98 | -4.17 | -2.31 | 17.50 | 30.00 | -12.50 |
| ⇟ | 5500 | 100 | AVG | 16.47 | 16.85 | 19.67 | 23.98 | -4.31 | -2.37 | 17.30 | 30.00 | -12.70 |
| (20M | 5600 | 120 | AVG | 16.55 | 16.76 | 19.67 | 23.98 | -4.31 | -2.37 | 17.30 | - | - |
| 2 | 5620 | 124 | AVG | 16.74 | 16.74 | 19.75 | 23.98 | -4.23 | -2.37 | 17.38 | - | - |
| Ž | 5720 | 144 | AVG | 16.22 | 16.55 | 19.40 | 23.98 | -4.58 | -2.37 | 17.03 | 30.00 | -12.97 |
| 古 | 5745 | 149 | AVG | 16.12 | 16.77 | 19.47 | 30.00 | -10.53 | -2.48 | 16.99 | - | - |
| 5G | 5785 | 157 | AVG | 16.33 | 16.57 | 19.46 | 30.00 | -10.54 | -2.48 | 16.98 | - | - |
| | 5825 | 165 | AVG | 16.48 | 16.63 | 19.57 | 30.00 | -10.43 | -2.48 | 17.09 | - | - |
| | 5845 | 169 | AVG | 16.70 | 16.54 | 19.63 | - | - | -2.48 | 17.15 | 30.00 | -12.85 |
| | 5865 | 173 | AVG | 16.72 | 16.76 | 19.75 | - | - | -2.48 | 17.27 | 30.00 | -12.73 |
| | 5885 | 177 | AVG | 16.54 | 16.70 | 19.63 | - | - | -2.48 | 17.15 | 30.00 | -12.85 |

Table 7-15. MIMO 20MHz BW 802.11ax (UNII) Maximum Conducted Output Power

| FCC ID: A3LSMF721JPN | | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
|------------------------|----------------------|------------------------------------|--------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 404 of 205 |
| 1M2206140073-11-R1 A3I | 4/8/2022 - 7/30/2022 | Portable Handset | Page 121 of 305 |



| (L) | | Channel | nannel Detector | Conducted Power [dBm] | | | Conducted Power Limit | Conducted Power | Directional Ant. Gain | Max e.i.r.p. | Max e.i.r.p. | e.i.r.p. Margin [dB] |
|----------|------|---------|-----------------|-----------------------|-------|-------|--------------------------|--------------------|--------------------------|--------------|--------------|-------------------------|
| <u>5</u> | | | | ANT1 | ANT2 | MIMO | [dBm] | Margin [dB] | [dBi] | [42] | | 9 [42] |
| `₹ | 5190 | 38 | AVG | 14.40 | 14.68 | 17.55 | 23.98 | -6.43 | -2.11 | 15.44 | 23.01 | -7.57 |
| ndwidt | 5230 | 46 | AVG | 14.63 | 14.89 | 17.77 | 23.98 | -6.21 | -2.11 | 15.66 | 23.01 | -7.35 |
| Ø | 5270 | 54 | AVG | 14.35 | 14.72 | 17.55 | 23.98 | -6.43 | -2.31 | 15.24 | 30.00 | -14.76 |
| Δ | 5310 | 62 | AVG | 14.85 | 14.61 | 17.74 | 23.98 | -6.24 | -2.31 | 15.43 | 30.00 | -14.57 |
| ¥ | 5510 | 102 | AVG | 14.82 | 14.93 | 17.89 | 23.98 | -6.09 | -2.37 | 15.52 | 30.00 | -14.48 |
| ⇟ | 5590 | 118 | AVG | 14.85 | 14.71 | 17.79 | 23.98 | -6.19 | -2.37 | 15.42 | - | - |
| (40M | 5630 | 126 | AVG | 14.96 | 14.31 | 17.66 | 23.98 | -6.32 | -2.37 | 15.29 | - | - |
| 7 | 5710 | 142 | AVG | 14.94 | 14.64 | 17.80 | 23.98 | -6.18 | -2.37 | 15.43 | 30.00 | -14.57 |
| <u>N</u> | 5755 | 151 | AVG | 14.83 | 14.57 | 17.71 | 30.00 | -12.29 | -2.48 | 15.23 | - | - |
| E E | 5795 | 159 | AVG | 14.91 | 14.92 | 17.93 | 30.00 | -12.07 | -2.48 | 15.45 | - | - |
| 50 | 5835 | 167 | AVG | 14.99 | 14.89 | 17.95 | - | - | -2.48 | 15.47 | 30.00 | -14.53 |
| | 5875 | 175 | AVG | 14.72 | 14.96 | 17.85 | - | - | -2.48 | 15.37 | 30.00 | -14.63 |

Table 7-16. MIMO 40MHz BW 802.11n (UNII) Maximum Conducted Output Power

| width) | Freq [MHz] | Channel | Channel Detector | Conducted Power [dBm] | | | Conducted Power Limit | Conducted Power | Directional Ant. Gain | Max e.i.r.p. | Max e.i.r.p. Limit [dBm] | e.i.r.p. Margin [dB] |
|--------------|------------|---------|------------------|-----------------------|-------|-------|--------------------------|-----------------|--------------------------|--------------|-----------------------------|-------------------------|
| ō | | | | ANT1 | ANT2 | MIMO | [dBm] | Margin [dB] | [dBi] | [42] | | 9 [] |
| '₹ | 5190 | 38 | AVG | 14.37 | 14.72 | 17.56 | 23.98 | -6.42 | -2.11 | 15.45 | 23.01 | -7.56 |
| pu | 5230 | 46 | AVG | 14.58 | 14.89 | 17.75 | 23.98 | -6.23 | -2.11 | 15.64 | 23.01 | -7.37 |
| の | 5270 | 54 | AVG | 14.38 | 14.79 | 17.60 | 23.98 | -6.38 | -2.31 | 15.29 | 30.00 | -14.71 |
| Δ | 5310 | 62 | AVG | 14.89 | 14.69 | 17.80 | 23.98 | -6.18 | -2.31 | 15.49 | 30.00 | -14.51 |
| 보 | 5510 | 102 | AVG | 14.88 | 14.80 | 17.85 | 23.98 | -6.13 | -2.37 | 15.48 | 30.00 | -14.52 |
| ₫ | 5590 | 118 | AVG | 14.86 | 14.72 | 17.80 | 23.98 | -6.18 | -2.37 | 15.43 | - | - |
| 6 | 5630 | 126 | AVG | 14.97 | 14.28 | 17.65 | 23.98 | -6.33 | -2.37 | 15.28 | - | - |
| (40 <u> </u> | 5710 | 142 | AVG | 14.84 | 14.62 | 17.74 | 23.98 | -6.24 | -2.37 | 15.37 | 30.00 | -14.63 |
| <u>N</u> | 5755 | 151 | AVG | 14.88 | 14.59 | 17.75 | 30.00 | -12.25 | -2.48 | 15.27 | - | - |
| GH GH | 5795 | 159 | AVG | 14.97 | 14.92 | 17.96 | 30.00 | -12.04 | -2.48 | 15.48 | - | - |
| 20 | 5835 | 167 | AVG | 14.67 | 14.93 | 17.81 | - | - | -2.48 | 15.33 | 30.00 | -14.67 |
| | 5875 | 175 | AVG | 14.69 | 14.56 | 17.64 | - | - | -2.48 | 15.16 | 30.00 | -14.84 |

Table 7-17. MIMO 40MHz BW 802.11ac (UNII) Maximum Conducted Output Power

| Ę | Freq [MHz] | Freq [MHz] Channel | | Conducted Power [dBm] | | | Conducted Power Limit | Conducted Power | Directional Ant. Gain | Max e.i.r.p. | Max e.i.r.p. | e.i.r.p. Margin [dB] |
|----------|------------|--------------------|-----|-----------------------|-------|-------|--------------------------|-----------------|--------------------------|--------------|----------------|-------------------------|
| ndwidt | | | | ANT1 | ANT2 | MIMO | [dBm] | Margin [dB] | [dBi] | [ubiii] | Liniat [GDIII] | margin [ab] |
| <u>\</u> | 5190 | 38 | AVG | 14.90 | 14.91 | 17.92 | 23.98 | -6.06 | -2.11 | 15.81 | 23.01 | -7.20 |
| Þ | 5230 | 46 | AVG | 14.96 | 14.71 | 17.85 | 23.98 | -6.13 | -2.11 | 15.74 | 23.01 | -7.27 |
| Ø | 5270 | 54 | AVG | 14.22 | 14.59 | 17.42 | 23.98 | -6.56 | -2.31 | 15.11 | 30.00 | -14.89 |
| Ω | 5310 | 62 | AVG | 14.67 | 14.55 | 17.62 | 23.98 | -6.36 | -2.31 | 15.31 | 30.00 | -14.69 |
| ¥ | 5510 | 102 | AVG | 14.70 | 14.67 | 17.70 | 23.98 | -6.28 | -2.37 | 15.33 | 30.00 | -14.67 |
| ⇟ | 5590 | 118 | AVG | 14.69 | 14.99 | 17.85 | 23.98 | -6.13 | -2.37 | 15.48 | - | - |
| (40M | 5630 | 126 | AVG | 14.76 | 14.98 | 17.88 | 23.98 | -6.10 | -2.37 | 15.51 | - | - |
| 7 | 5710 | 142 | AVG | 14.70 | 14.51 | 17.62 | 23.98 | -6.36 | -2.37 | 15.25 | 30.00 | -14.75 |
| <u>N</u> | 5755 | 151 | AVG | 14.67 | 14.37 | 17.53 | 30.00 | -12.47 | -2.48 | 15.05 | - | - |
| GH | 5795 | 159 | AVG | 14.81 | 14.73 | 17.78 | 30.00 | -12.22 | -2.48 | 15.30 | - | - |
| 50 | 5835 | 167 | AVG | 14.90 | 14.79 | 17.86 | - | - | -2.48 | 15.38 | 30.00 | -14.62 |
| | 5875 | 175 | AVG | 14.91 | 14.86 | 17.90 | - | 1 | -2.48 | 15.42 | 30.00 | -14.58 |

Table 7-18. MIMO 40MHz BW 802.11ax (UNII) Maximum Conducted Output Power

| FCC ID: A3LSMF721JPN | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
|------------------------|---------------------------------------|------------------|--------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 122 of 305 |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | |



| idth) | Freq [MHz] Channel | | Channel Detector | Cond | Conducted Power [dBm] | | Conducted Power Limit | Conducted Power | Directional Ant. Gain | Max e.i.r.p. | Max e.i.r.p. | e.i.r.p. Margin [dB] |
|-------|--------------------|-----|------------------|-------|-----------------------|-------|--------------------------|--------------------|--------------------------|--------------|--------------|-------------------------|
| dγi | | | | ANT1 | ANT2 | MIMO | [dBm] | Margin [dB] | [dBi] | [ubiii] | | a. g [a.2] |
| a | 5210 | 42 | AVG | 13.66 | 13.93 | 16.81 | 23.98 | -7.17 | -2.11 | 14.70 | 23.01 | -8.31 |
| z B | 5290 | 58 | AVG | 13.58 | 13.62 | 16.61 | 23.98 | -7.37 | -2.31 | 14.30 | 30.00 | -15.70 |
| ÄÄ | 5530 | 106 | AVG | 13.56 | 13.48 | 16.53 | 23.98 | -7.45 | -2.37 | 14.16 | 30.00 | -15.84 |
| (80N | 5610 | 122 | AVG | 13.63 | 13.94 | 16.80 | 23.98 | -7.18 | -2.37 | 14.43 | - | - |
| 3) z | 5690 | 138 | AVG | 13.56 | 13.54 | 16.56 | 23.98 | -7.42 | -2.37 | 14.19 | 30.00 | -15.81 |
| Ë | 5775 | 155 | AVG | 13.94 | 13.62 | 16.79 | 30.00 | -13.21 | -2.48 | 14.31 | - | - |
| 5(| 5855 | 171 | AVG | 13.95 | 13.91 | 16.94 | - | -6.00 | -2.48 | 14.46 | 30.00 | -15.54 |

Table 7-19. MIMO 80MHz BW 802.11ac (UNII) Maximum Conducted Output Power

| idth) | Freq [MHz] Channel Detec | | Detector | Conducted Power [dBm] | | | Conducted Power Limit | Conducted Power | Directional Ant. Gain | Max e.i.r.p. | Max e.i.r.p. | e.i.r.p. Margin [dB] |
|-------|--------------------------|-----|----------|-----------------------|-------|--------------|--------------------------|--------------------|--------------------------|--------------|--------------|-------------------------|
|) Ap | | | | ANT1 | ANT2 | IT2 MIMO [dE | [dBm] | Margin [dB] | [dBi] | [42] | | J 3 [] |
| Ban | 5210 | 42 | AVG | 13.67 | 13.91 | 16.80 | 23.98 | -7.18 | -2.11 | 14.69 | 23.01 | -8.32 |
| Z B | 5290 | 58 | AVG | 13.60 | 13.62 | 16.62 | 23.98 | -7.36 | -2.31 | 14.31 | 30.00 | -15.69 |
| | 5530 | 106 | AVG | 13.58 | 13.45 | 16.53 | 23.98 | -7.45 | -2.37 | 14.16 | 30.00 | -15.84 |
| (80MI | 5610 | 122 | AVG | 13.62 | 13.95 | 16.80 | 23.98 | -7.18 | -2.37 | 14.43 | - | - |
| Z (8 | 5690 | 138 | AVG | 13.66 | 13.56 | 16.62 | 23.98 | -7.36 | -2.37 | 14.25 | 30.00 | -15.75 |
| Ë | 5775 | 155 | AVG | 13.92 | 13.56 | 16.75 | 30.00 | -13.25 | -2.48 | 14.27 | - | - |
| 50 | 5855 | 171 | AVG | 13.91 | 13.86 | 16.90 | - | -6.00 | -2.48 | 14.42 | 30.00 | -15.58 |

Table 7-20. MIMO 80MHz BW 802.11ax (UNII) Maximum Conducted Output Power

| MHz th) | Freq [MHz] | Channel | Detector | Conducted Power [dBm] | | | Conducted Power Limit | Conducted Power | Directional Ant. Gain | Max e.i.r.p. | Max e.i.r.p. | e.i.r.p. Margin [dB] |
|------------|------------|---------|----------|-----------------------|-------|-------|--------------------------|--------------------|--------------------------|--------------|--------------|-------------------------|
| 160 wid | | | | ANT1 | ANT2 | MIMO | [dBm] | Margin [dB] | [dBi] | [uz] | | g [u.2] |
| z (1 | 5250 | 50 | AVG | 13.44 | 13.77 | 16.62 | 23.98 | -7.36 | -2.31 | 14.31 | 23.01 | -8.70 |
| GH; | 5570 | 114 | AVG | 13.39 | 13.65 | 16.53 | 30.00 | -13.47 | -2.37 | 14.16 | - | - |
| 55 | 5815 | 163 | AVG | 13.81 | 13.72 | 16.78 | - | - | -2.48 | 14.30 | 30.00 | -15.70 |

Table 7-21. MIMO 160MHz BW 802.11ac (UNII) Maximum Conducted Output Power

| MHz th) | Freq [MHz] Channel Detector | | Detector | Conducted Power [dBm] | | | Conducted Power Limit | Conducted Power | Directional Ant. Gain | Max e.i.r.p. | Max e.i.r.p. Limit [dBm] | e.i.r.p. Margin [dB] |
|-------------|-----------------------------|-----|----------|-----------------------|-------|-------|--------------------------|--------------------|--------------------------|--------------|-----------------------------|-------------------------|
| 9 vid | | | | ANT1 | ANT2 | MIMO | [dBm] | Margin [dB] | [dBi] | [] | | g [u_] |
| z (1 ndv | 5250 | 50 | AVG | 13.93 | 13.59 | 16.77 | 23.98 | -7.21 | -2.31 | 14.46 | 23.01 | -8.55 |
| GH. Bai | 5570 | 114 | AVG | 13.35 | 13.61 | 16.49 | 30.00 | -13.51 | -2.37 | 14.12 | - | - |
| 50 | 5815 | 163 | AVG | 13.74 | 13.69 | 16.73 | - | - | -2.48 | 14.25 | 30.00 | -15.75 |

Table 7-22. MIMO 160MHz BW 802.11ax (UNII) Maximum Conducted Output Power

| FCC ID: A3LSMF721JPN | | MEASUREMENT REPORT (CERTIFICATION) | | |
|------------------------|----------------------|---------------------------------------|-----------------|--|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 422 of 205 | |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 123 of 305 | |



Note:

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

Per ANSI C63.10-2013 Section 14.4.3, the directional gain is calculated using the following formula, where G_N is the gain of the nth antenna and N_{ANT} , the total number of antennas used.

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

Sample MIMO Calculation:

At 5180MHz in 802.11n (20MHz BW) mode, the average conducted output power was measured to be 16.60 dBm for Antenna 1 and 16.54 dBm for Antenna 2.

$$(16.60 \text{ dBm} + 16.54 \text{ dBm}) = (45.71 \text{ mW} + 45.08 \text{ mW}) = 90.79 \text{ mW} = 19.58 \text{ dBm}$$

Sample e.i.r.p. Calculation:

At 5180MHz in 802.11n (20MHz BW) mode, the average MIMO conducted power was calculated to be 19.58 dBm with directional gain of -2.11 dBi.

$$19.58 \text{ dBm} + -2.11 \text{ dBi} = 17.47 \text{ dBm}$$

| FCC ID: A3LSMF721JPN | | MEASUREMENT REPORT (CERTIFICATION) | | |
|------------------------|----------------------|---------------------------------------|-----------------|--|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 404 of 205 | |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 124 of 305 | |



7.5 Maximum Power Spectral Density – 802.11a/n/ac/ax §15.407(a.1.iv) §15.407(a.2) §15.407(a.3); RSS-247 [6.2] Test Overview and Limit

The spectrum analyzer was connected to the antenna terminal while the EUT was 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. Method SA-1, as defined in ANSI C63.10-2013 and KDB 789033 D02 v02r01, was used to measure the power spectral density.

In the 5.15 - 5.25 GHz, 5.25 - 5.35 GHz, 5.47 - 5.725 GHz bands, the maximum permissible power spectral density is 11 dBm/MHz.

In the 5.725 – 5.850GHz band, the maximum permissible power spectral density is 30dBm/500kHz.

In the 5.850 – 5.895 GHz, the maximum power spectral density must not exceed 14dBm/MHz e.i.r.p.

Test Procedure Used

ANSI C63.10-2013 – Section 12.3.2.2 KDB 789033 D02 v02r01 – Section F ANSI C63.10-2013 – Section 14.3.2.2 Measure-and-Sum Technique KDB 662911 v02r01 – Section E)2) Measure-and-Sum Technique

Test Settings

- 1. Analyzer was set to the center frequency of the UNII channel under investigation
- 2. Span was set to encompass the entire emission bandwidth of the signal
- 3. RBW = 1MHz
- 4. VBW = 3MHz
- 5. Number of sweep points > 2 x (span/RBW)
- 6. Sweep time = auto
- 7. Detector = power averaging (RMS)
- 8. Trigger was set to free run for all modes
- 9. Trace was averaged over 100 sweeps
- 10. The peak search function of the spectrum analyzer was used to find the peak of the spectrum.

Test Setup

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



Figure 7-4. Test Instrument & Measurement Setup

Test Notes

None

| FCC ID: A3LSMF721JPN | | MEASUREMENT REPORT (CERTIFICATION) | | |
|------------------------|----------------------|---------------------------------------|-----------------|--|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 425 of 205 | |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 125 of 305 | |



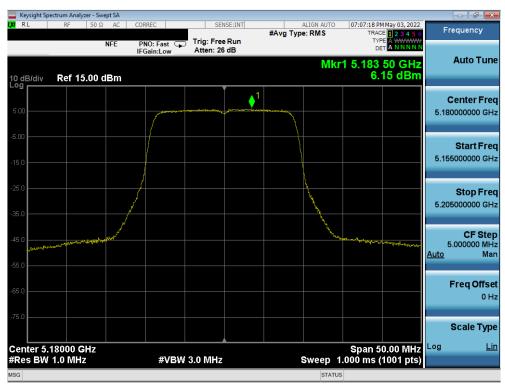
SISO Antenna-1 Power Spectral Density Measurements

| | Frequency [MHz] | Channel No. | 802.11 Mode | Data Rate [Mbps] | Measured Power Density [dBm] | Max Power Density [dBm/MHz] | Margin [dB] |
|--------------|-----------------|----------------|-------------|------------------|------------------------------------|-----------------------------------|----------------|
| | 5180 | 36 | а | 6 | 6.15 | 11.0 | -4.85 |
| | 5200 | 40 | а | 6 | 5.93 | 11.0 | -5.07 |
| | 5240 | 48 | а | 6 | 5.66 | 11.0 | -5.34 |
| | 5180 | 36 | n (20MHz) | 6.5/7.2 (MCS0) | 6.82 | 11.0 | -4.18 |
| | 5200 | 40 | n (20MHz) | 6.5/7.2 (MCS0) | 5.72 | 11.0 | -5.28 |
| | 5240 | 48 | n (20MHz) | 6.5/7.2 (MCS0) | 5.82 | 11.0 | -5.18 |
| _ | 5180 | 36 | ax (20MHz) | 6.5/7.2 (MCS0) | 5.17 | 11.0 | -5.83 |
| Band | 5200 | 40 | ax (20MHz) | 6.5/7.2 (MCS0) | 5.03 | 11.0 | -5.97 |
| ä | 5240 | 48 | ax (20MHz) | 6.5/7.2 (MCS0) | 4.87 | 11.0 | -6.13 |
| | 5190 | 38 | n (40MHz) | 13.5/15 (MCS0) | 2.32 | 11.0 | -8.68 |
| | 5230 | 46 | n (40MHz) | 13.5/15 (MCS0) | 2.16 | 11.0 | -8.84 |
| | 5190 | 38 | ax (40MHz) | 13.5/15 (MCS0) | 1.96 | 11.0 | -9.04 |
| | 5230 | 46 | ax (40MHz) | 13.5/15 (MCS0) | 1.66 | 11.0 | -9.34 |
| | 5210 | 42 | ac (80MHz) | 29.3/32.5 (MCS0) | -6.28 | 11.0 | -17.28 |
| | 5210 | 42 | ax (80MHz) | 29.3/32.5 (MCS0) | -0.52 | 11.0 | -11.52 |
| Band 1/2A | 5250 | 50 | ac (160MHz) | 58.5/65 (MCS0) | -3.62 | 11.0 | -14.62 |
| Ba 1/2 | 5250 | 50 | ax (160MHz) | 58.5/65 (MCS0) | -6.96 | 11.0 | -17.96 |
| | 5260 | 52 | а | 6 | 5.41 | 11.0 | -5.59 |
| | 5280 | 56 | а | 6 | 5.51 | 11.0 | -5.49 |
| | 5320 | 64 | а | 6 | 5.31 | 11.0 | -5.69 |
| | 5260 | 52 | n (20MHz) | 6.5/7.2 (MCS0) | 5.78 | 11.0 | -5.22 |
| | 5280 | 56 | n (20MHz) | 6.5/7.2 (MCS0) | 5.99 | 11.0 | -5.01 |
| | 5320 | 64 | n (20MHz) | 6.5/7.2 (MCS0) | 5.23 | 11.0 | -5.77 |
| 8 | 5260 | 52 | ax (20MHz) | 6.5/7.2 (MCS0) | 4.21 | 11.0 | -6.79 |
| Band 2A | 5280 | 56 | ax (20MHz) | 6.5/7.2 (MCS0) | 4.60 | 11.0 | -6.40 |
| Ba | 5320 | 64 | ax (20MHz) | 6.5/7.2 (MCS0) | 4.73 | 11.0 | -6.27 |
| | 5270 | 54 | n (40MHz) | 13.5/15 (MCS0) | 2.02 | 11.0 | -8.98 |
| | 5310 | 62 | n (40MHz) | 13.5/15 (MCS0) | 2.29 | 11.0 | -8.71 |
| | 5270 | 54 | ax (40MHz) | 13.5/15 (MCS0) | 2.05 | 11.0 | -8.95 |
| | 5310 | 62 | ax (40MHz) | 13.5/15 (MCS0) | 2.04 | 11.0 | -8.96 |
| | 5290 | 58 | ac (80MHz) | 29.3/32.5 (MCS0) | -2.12 | 11.0 | -13.12 |
| | 5290 | 58 | ax (80MHz) | 29.3/32.5 (MCS0) | -1.09 | 11.0 | -12.09 |
| | 5500 | 100 | а | 6 | 5.90 | 11.0 | -5.11 |
| | 5600 | 120 | а | 6 | 6.08 | 11.0 | -4.92 |
| | 5700 | 140 | а | 6 | 5.97 | 11.0 | -5.03 |
| | 5500 | 100 | n (20MHz) | 6.5/7.2 (MCS0) | 5.45 | 11.0 | -5.55 |
| | 5600 | 120 | n (20MHz) | 6.5/7.2 (MCS0) | 5.94 | 11.0 | -5.06 |
| | 5720 | 144 | n (20MHz) | 6.5/7.2 (MCS0) | 5.93 | 11.0 | -5.07 |
| | 5500 | 100 | ax (20MHz) | 6.5/7.2 (MCS0) | 4.51 | 11.0 | -6.49 |
| | 5600 | 120 | ax (20MHz) | 6.5/7.2 (MCS0) | 4.87 | 11.0 | -6.13 |
| | 5720 | 144 | ax (20MHz) | 6.5/7.2 (MCS0) | 4.66 | 11.0 | -6.34 |
| | 5510 | 102 | n (40MHz) | 13.5/15 (MCS0) | 1.95 | 11.0 | -9.05 |
| ပ္က | 5590 | 118 | n (40MHz) | 13.5/15 (MCS0) | 2.24 | 11.0 | -8.76 |
| Band 2C | 5710 | 142 | n (40MHz) | 13.5/15 (MCS0) | 2.07 | 11.0 | -8.93 |
| Baı | 5510 | 102 | ax (40MHz) | 13.5/15 (MCS0) | 2.11 | 11.0 | -8.89 |
| | 5590 | 118 | ax (40MHz) | 13.5/15 (MCS0) | 2.14 | 11.0 | -8.86 |
| | 5710 | 142 | ax (40MHz) | 13.5/15 (MCS0) | 2.37 | 11.0 | -8.63 |
| | 5530 | 106 | ac (80MHz) | 29.3/32.5 (MCS0) | -2.22 | 11.0 | -13.22 |
| | 5610 | 122 | ac (80MHz) | 29.3/32.5 (MCS0) | -2.18 | 11.0 | -13.18 |
| | 5690 | 138 | ac (80MHz) | 29.3/32.5 (MCS0) | -2.60 | 11.0 | -13.60 |
| | 5530 | 106 | ax (80MHz) | 29.3/32.5 (MCS0) | -1.19 | 11.0 | -12.19 |
| | 5610 | 122 | ax (80MHz) | 29.3/32.5 (MCS0) | -1.29 | 11.0 | -12.29 |
| | 5690 | 138 | ax (80MHz) | 29.3/32.5 (MCS0) | -1.12 | 11.0 | -12.12 |
| | 5570 | 114 | ac (160MHz) | 29.3/32.5 (MCS0) | -3.37 | 11.0 | -14.37 |
| | 5570 | 114 | ax (160MHz) | 29.3/32.5 (MCS0) | -6.50 | 11.0 | -17.50 |
| | | | , ,/ | | | | |

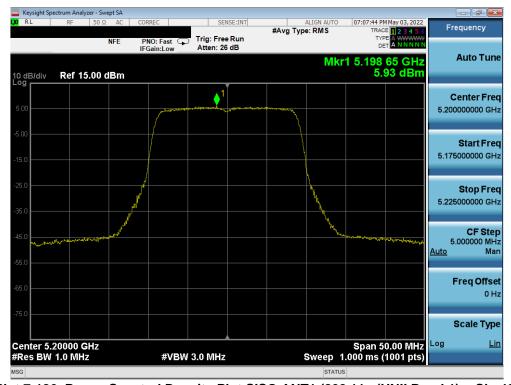
Table 7-23. Bands 1, 2A, 2C Conducted Power Spectral Density Measurements SISO ANT1

| FCC ID: A3LSMF721JPN | | MEASUREMENT REPORT (CERTIFICATION) | | |
|------------------------|----------------------|------------------------------------|-----------------|--|
| Test Report S/N: | Test Dates: | EUT Type: | Dags 100 of 205 | |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 126 of 305 | |





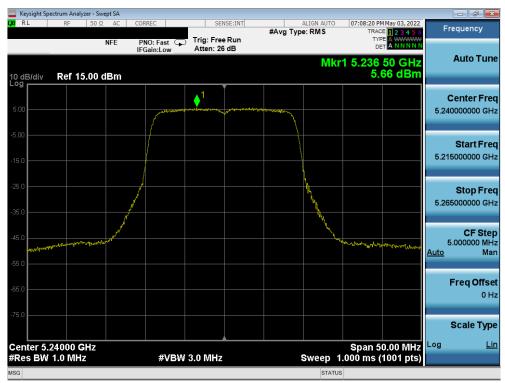
Plot 7-185. Power Spectral Density Plot SISO ANT1 (802.11a (UNII Band 1) - Ch. 36)



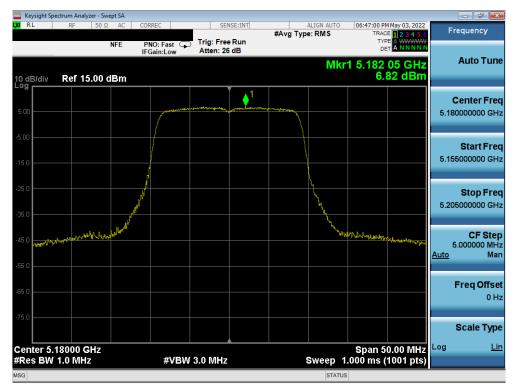
Plot 7-186. Power Spectral Density Plot SISO ANT1 (802.11a (UNII Band 1) - Ch. 40)

| FCC ID: A3LSMF721JPN | | MEASUREMENT REPORT (CERTIFICATION) | | |
|------------------------|----------------------|------------------------------------|-----------------|--|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 427 of 205 | |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 127 of 305 | |





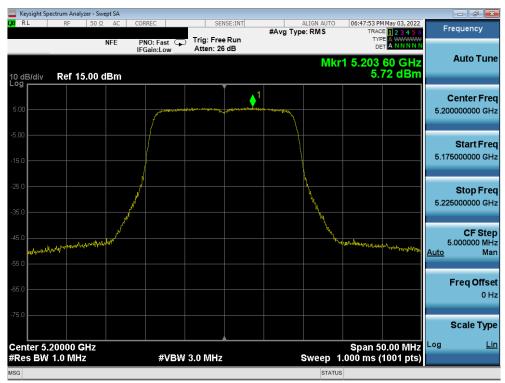
Plot 7-187. Power Spectral Density Plot SISO ANT1 (802.11a (UNII Band 1) - Ch. 48)



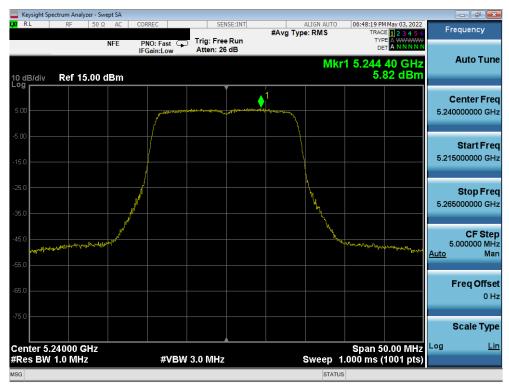
Plot 7-188. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 1) - Ch. 36)

| FCC ID: A3LSMF721JPN | | MEASUREMENT REPORT (CERTIFICATION) | | |
|------------------------|----------------------|------------------------------------|-----------------|--|
| Test Report S/N: | Test Dates: | EUT Type: | Dags 120 of 205 | |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 128 of 305 | |





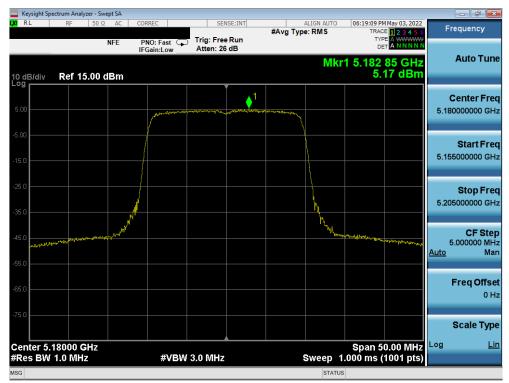
Plot 7-189. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 1) - Ch. 40)



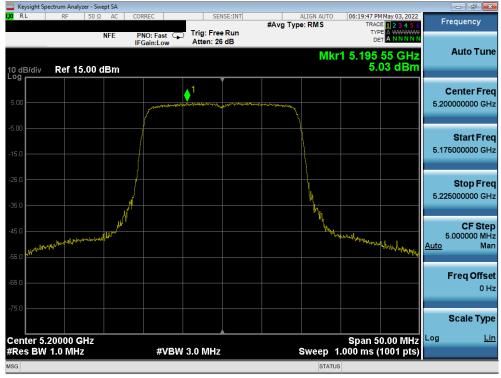
Plot 7-190. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 1) - Ch. 48)

| FCC ID: A3LSMF721JPN | | MEASUREMENT REPORT (CERTIFICATION) | | |
|------------------------|----------------------|---------------------------------------|-----------------|--|
| Test Report S/N: | Test Dates: | EUT Type: | Daga 120 of 205 | |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 129 of 305 | |





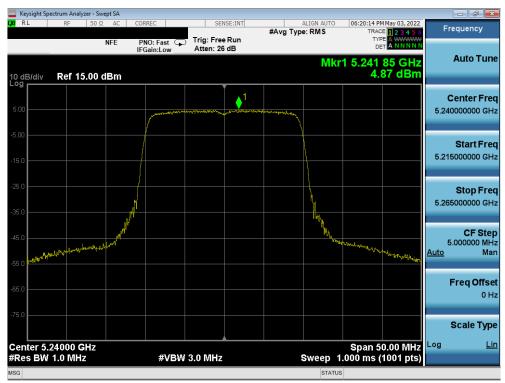
Plot 7-191. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 1) - Ch. 36)



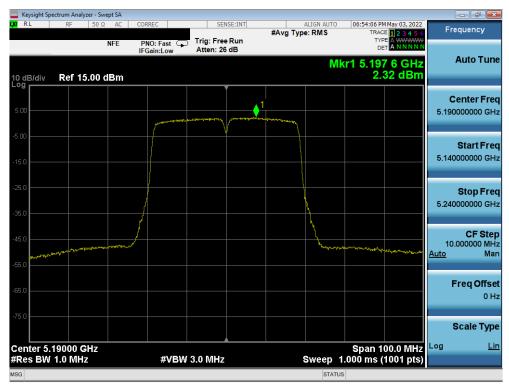
Plot 7-192. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 1) - Ch. 40)

| FCC ID: A3LSMF721JPN | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
|------------------------|---------------------------------------|------------------|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Daga 120 of 205 |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 130 of 305 |





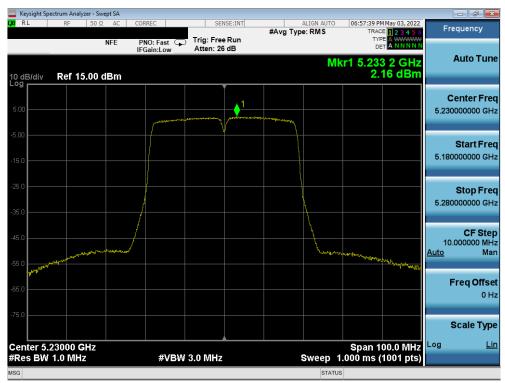
Plot 7-193. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 1) - Ch. 48)



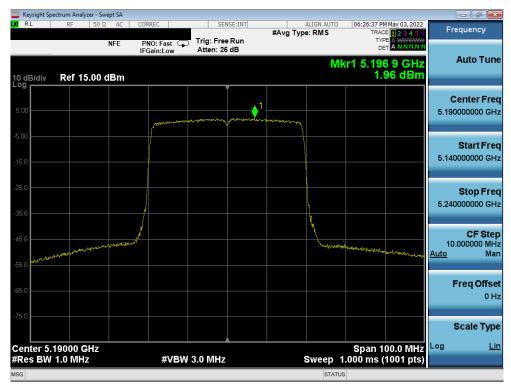
Plot 7-194. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 1) - Ch. 38)

| FCC ID: A3LSMF721JPN | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
|------------------------|---------------------------------------|------------------|--------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dog 121 of 205 |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 131 of 305 |





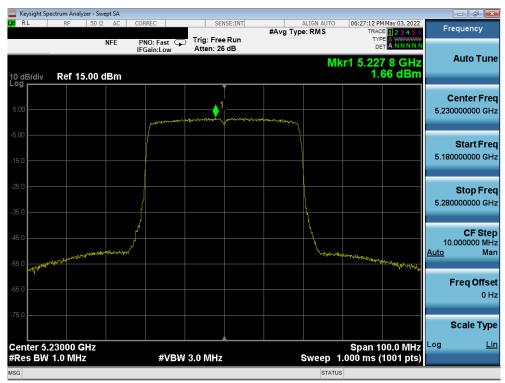
Plot 7-195. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 1) - Ch. 46)



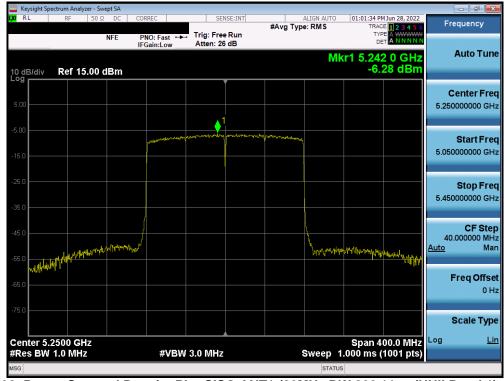
Plot 7-196. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 1) - Ch. 38)

| FCC ID: A3LSMF721JPN | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
|------------------------|---------------------------------------|------------------|--------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 422 of 205 |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 132 of 305 |





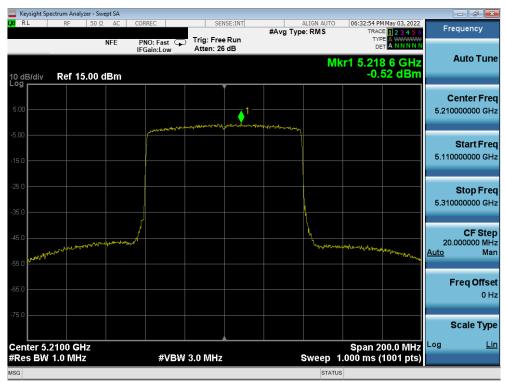
Plot 7-197. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 1) - Ch. 46)



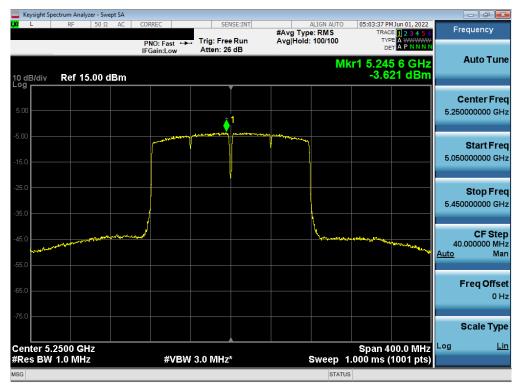
Plot 7-198. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ac (UNII Band 1) - Ch. 42)

| FCC ID: A3LSMF721JPN | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
|------------------------|---------------------------------------|------------------|--------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 422 of 205 |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 133 of 305 |





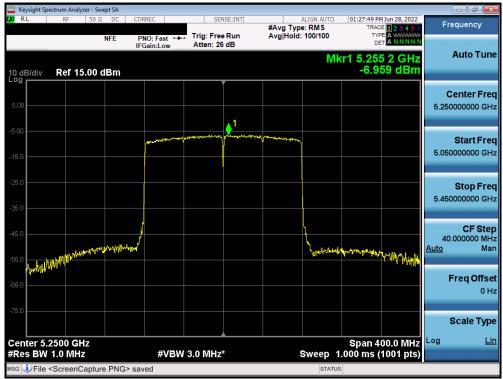
Plot 7-199. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax (UNII Band 1) - Ch. 42)



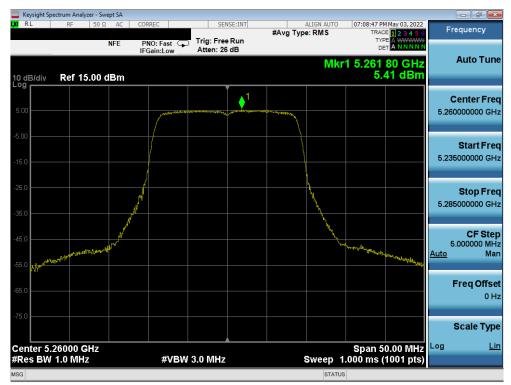
Plot 7-200. Power Spectral Density Plot SISO ANT1 (160MHz BW 802.11ac (UNII Band 1/2A) - Ch. 50)

| FCC ID: A3LSMF721JPN | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
|------------------------|---------------------------------------|------------------|--------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 424 of 205 |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 134 of 305 |





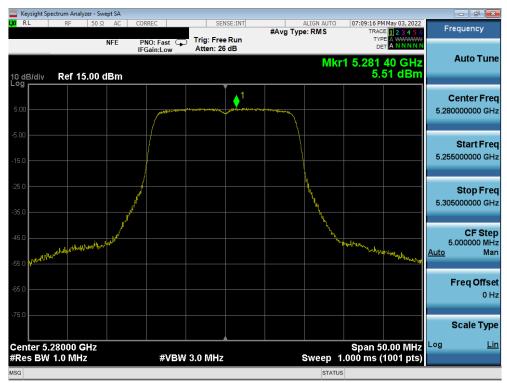
Plot 7-201. Power Spectral Density Plot SISO ANT1 (160MHz BW 802.11ax (UNII Band 1/2A) - Ch. 50)



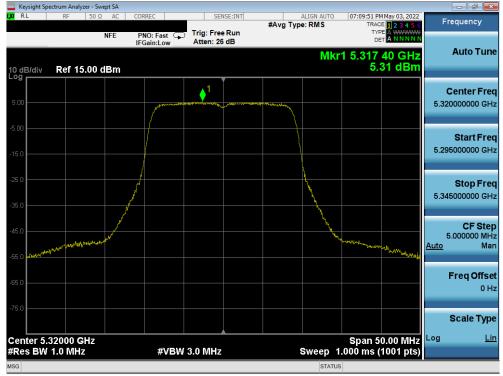
Plot 7-202. Power Spectral Density Plot SISO ANT1 (802.11a (UNII Band 2A) - Ch. 52)

| FCC ID: A3LSMF721JPN | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
|------------------------|---------------------------------------|------------------|--------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 425 of 205 |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 135 of 305 |





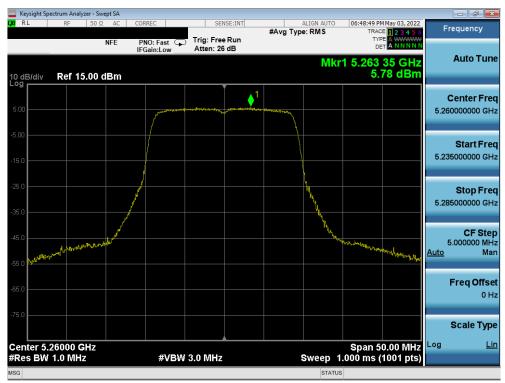
Plot 7-203. Power Spectral Density Plot SISO ANT1 (802.11a (UNII Band 2A) - Ch. 56)



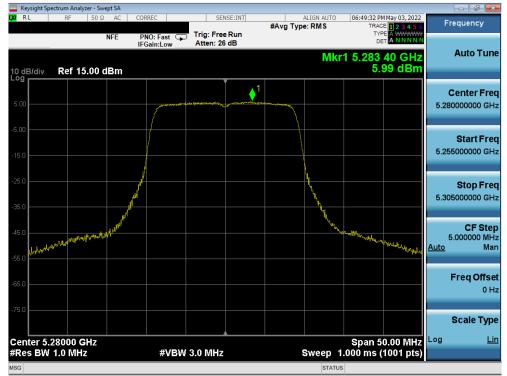
Plot 7-204. Power Spectral Density Plot SISO ANT1 (802.11a (UNII Band 2A) - Ch. 64)

| FCC ID: A3LSMF721JPN | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
|------------------------|---------------------------------------|------------------|--------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 126 of 205 |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 136 of 305 |





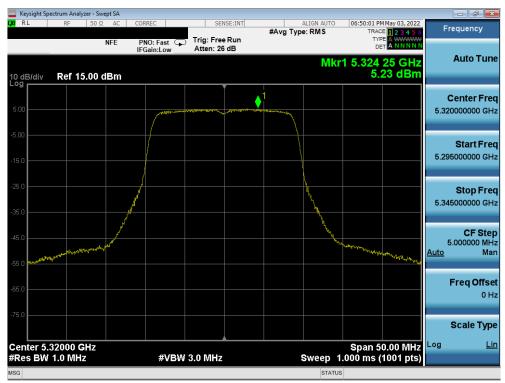
Plot 7-205. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 2A) - Ch. 52)



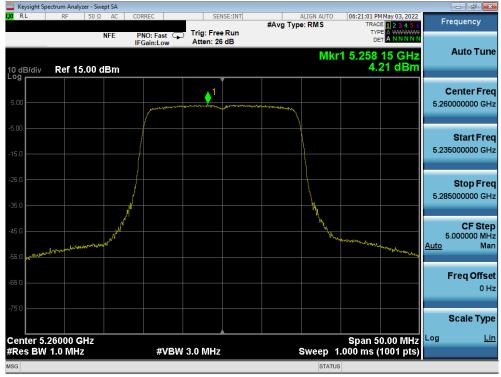
Plot 7-206. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 2A) - Ch. 56)

| FCC ID: A3LSMF721JPN | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
|------------------------|---------------------------------------|------------------|--------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 127 of 205 |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 137 of 305 |





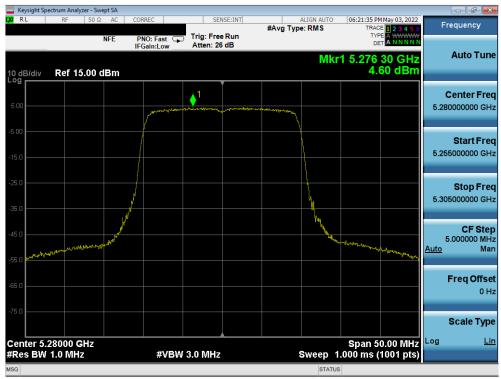
Plot 7-207. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 2A) - Ch. 64)



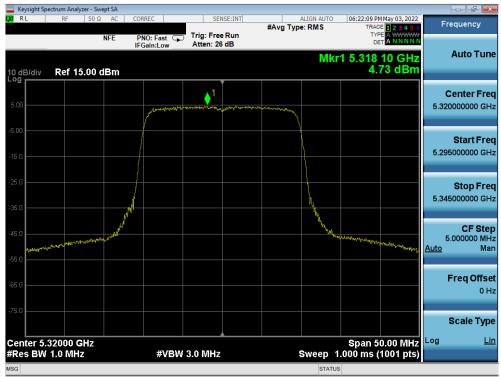
Plot 7-208. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 2A) - Ch. 52)

| FCC ID: A3LSMF721JPN | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
|------------------------|---------------------------------------|------------------|--------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 120 of 205 |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 138 of 305 |





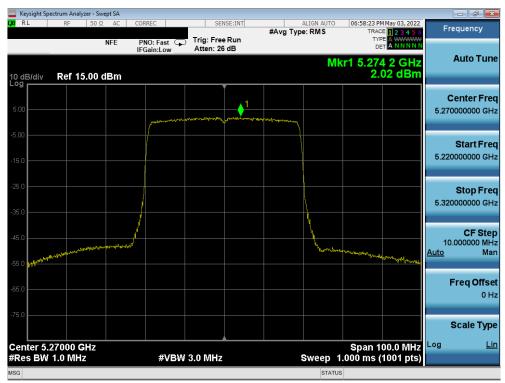
Plot 7-209. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 2A) - Ch. 56)



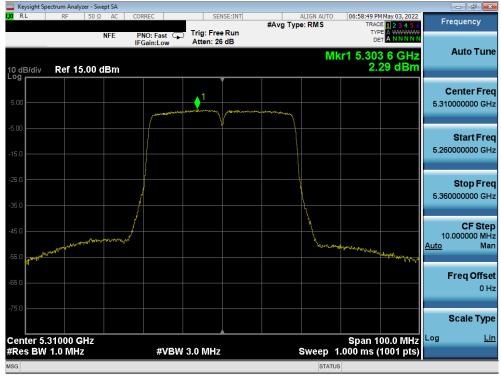
Plot 7-210. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 2A) - Ch. 64)

| FCC ID: A3LSMF721JPN | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
|------------------------|---------------------------------------|------------------|--------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Do ac 120 of 205 |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 139 of 305 |





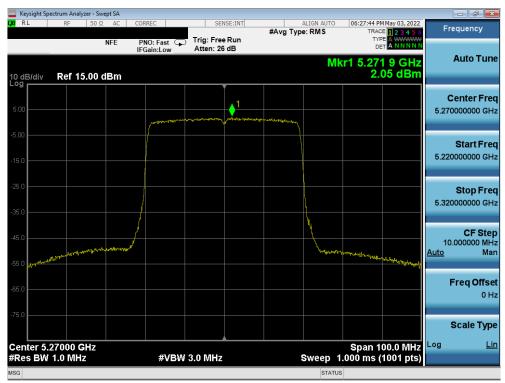
Plot 7-211. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 2A) - Ch. 54)



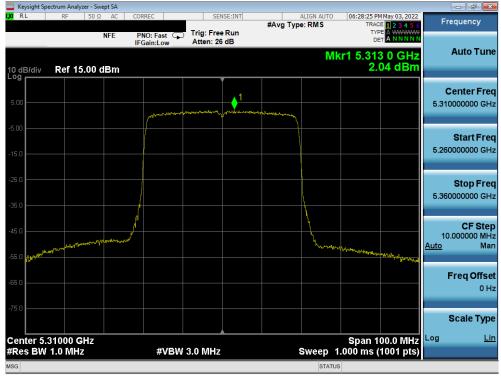
Plot 7-212. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 2A) - Ch. 62)

| FCC ID: A3LSMF721JPN | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
|------------------------|---------------------------------------|------------------|--------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dog 140 of 205 |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 140 of 305 |





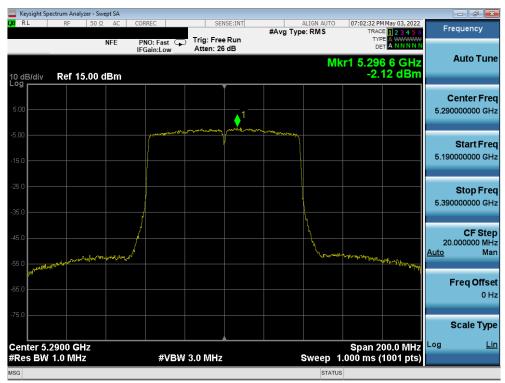
Plot 7-213. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 2A) - Ch. 54)



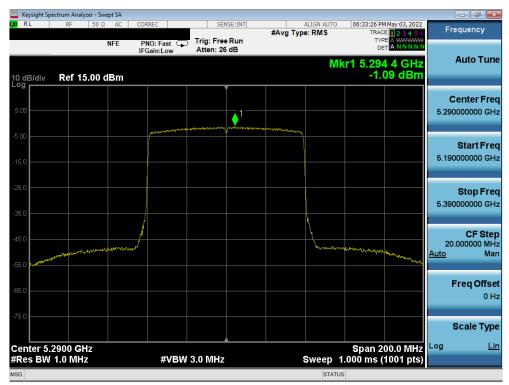
Plot 7-214. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 2A) - Ch. 62)

| FCC ID: A3LSMF721JPN | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
|------------------------|---------------------------------------|------------------|--------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 444 of 205 |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 141 of 305 |





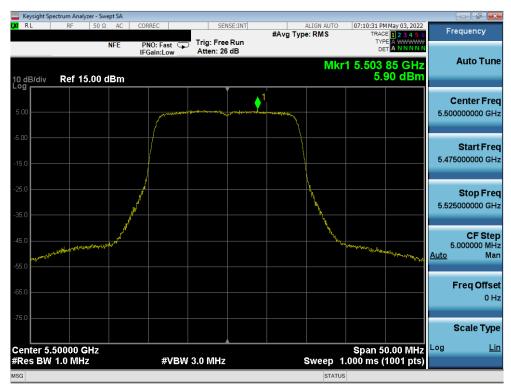
Plot 7-215. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ac (UNII Band 2A) - Ch. 58)



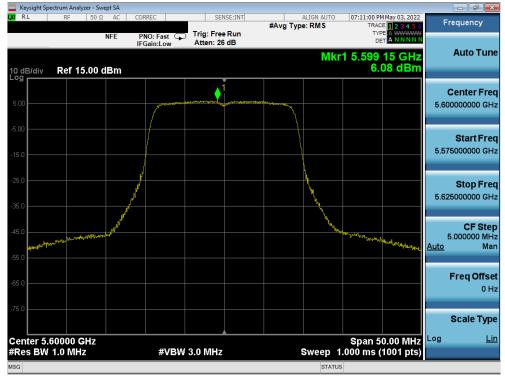
Plot 7-216. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax (UNII Band 2A) - Ch. 58)

| FCC ID: A3LSMF721JPN | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
|------------------------|---------------------------------------|------------------|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 442 of 205 |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 142 of 305 |





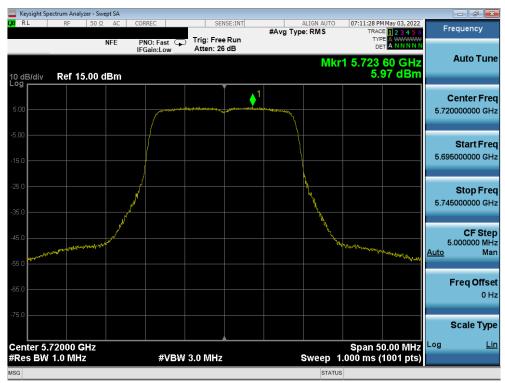
Plot 7-217. Power Spectral Density Plot SISO ANT1 (802.11a (UNII Band 2C) - Ch. 100)



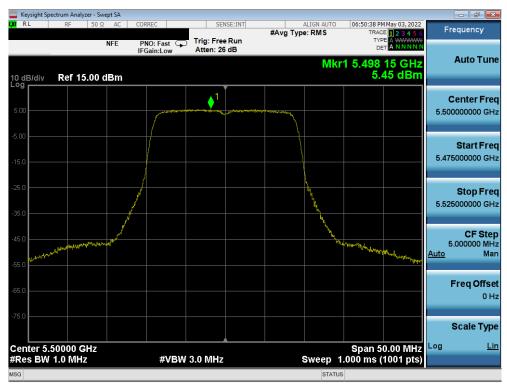
Plot 7-218. Power Spectral Density Plot SISO ANT1 (802.11a (UNII Band 2C) - Ch. 120)

| FCC ID: A3LSMF721JPN | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
|------------------------|---------------------------------------|------------------|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dags 442 of 205 |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 143 of 305 |





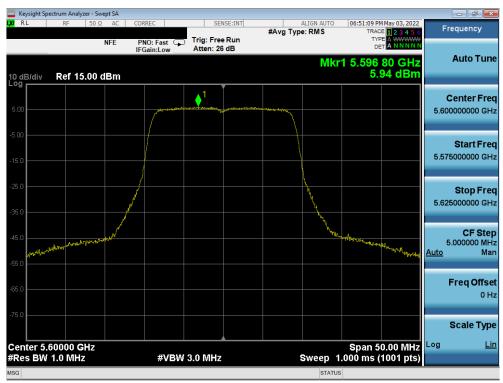
Plot 7-219. Power Spectral Density Plot SISO ANT1 (802.11a (UNII Band 2C) - Ch. 144)



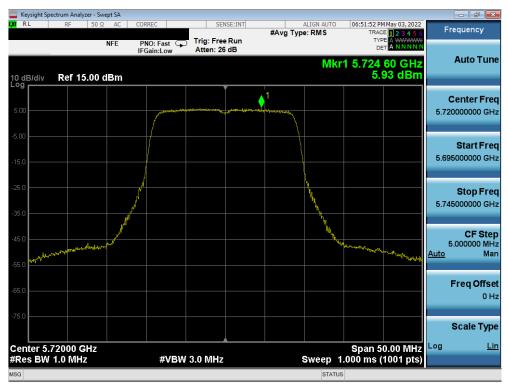
Plot 7-220. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 2C) - Ch. 100)

| FCC ID: A3LSMF721JPN | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
|------------------------|---------------------------------------|------------------|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dags 144 of 205 |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 144 of 305 |





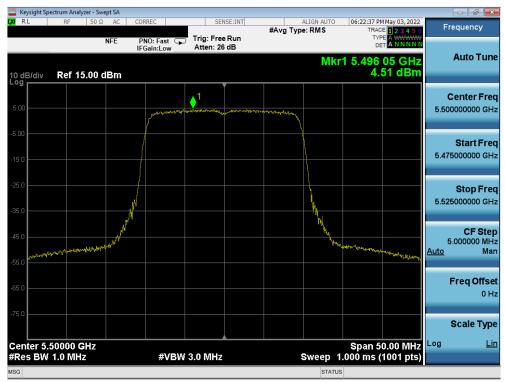
Plot 7-221. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 2C) - Ch. 120)



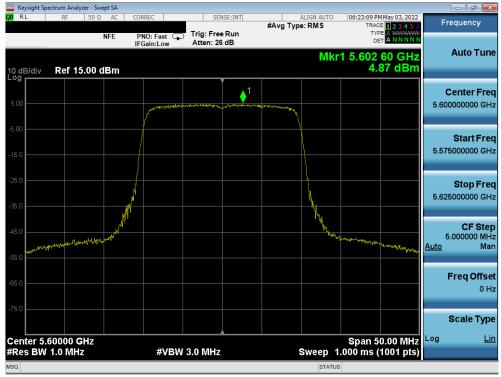
Plot 7-222. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 2C) - Ch. 144)

| FCC ID: A3LSMF721JPN | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
|------------------------|---------------------------------------|------------------|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dags 14F of 20F |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 145 of 305 |





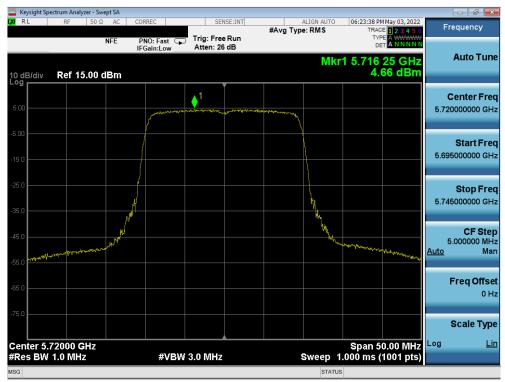
Plot 7-223. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 2C) - Ch. 100)



Plot 7-224. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 2C) - Ch. 120)

| FCC ID: A3LSMF721JPN | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
|------------------------|---------------------------------------|------------------|--------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dags 146 of 205 |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 146 of 305 |





Plot 7-225. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 2C) - Ch. 144)



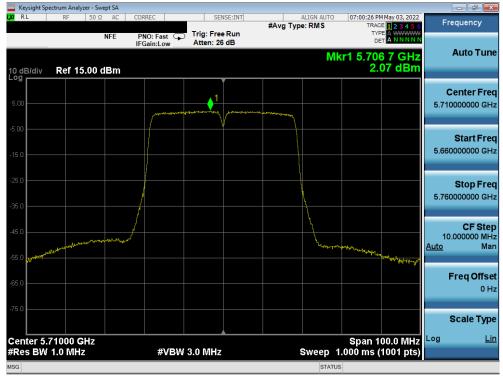
Plot 7-226. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 2C) - Ch. 102)

| FCC ID: A3LSMF721JPN | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
|------------------------|---------------------------------------|------------------|--------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 147 of 205 |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 147 of 305 |





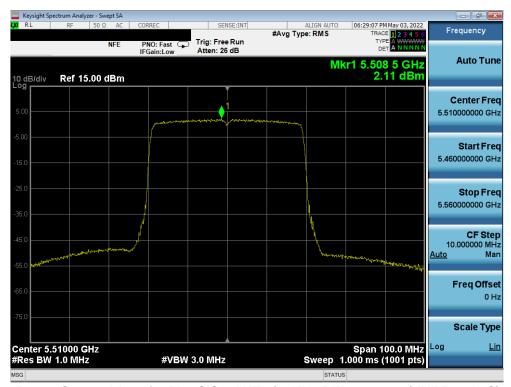
Plot 7-227. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 2C) - Ch. 118



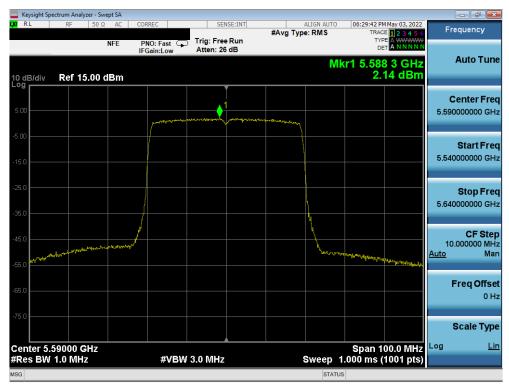
Plot 7-228. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 2C) - Ch. 142)

| FCC ID: A3LSMF721JPN | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
|------------------------|---------------------------------------|------------------|--------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dog 140 of 205 |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 148 of 305 |





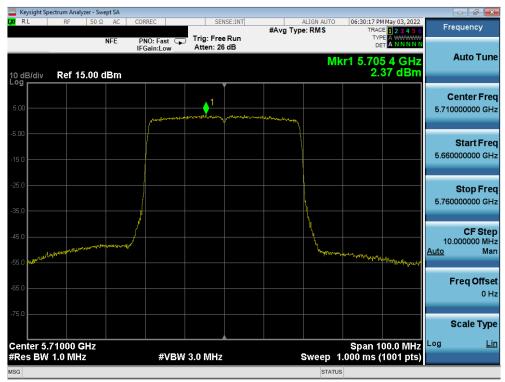
Plot 7-229. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 2C) - Ch. 102)



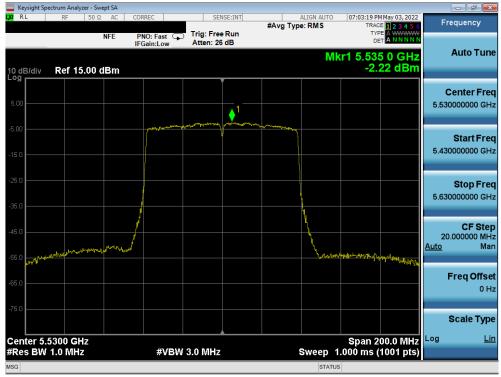
Plot 7-230. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 2C) - Ch. 118

| FCC ID: A3LSMF721JPN | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
|------------------------|---------------------------------------|------------------|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dags 140 of 205 |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 149 of 305 |





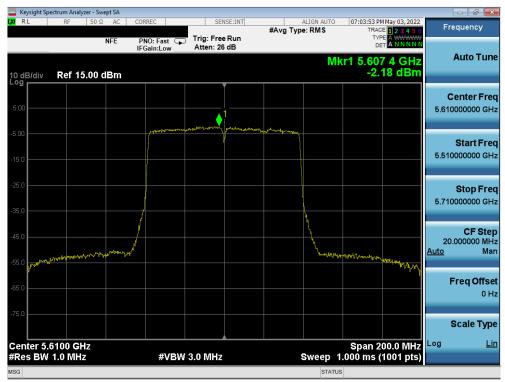
Plot 7-231. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 2C) - Ch. 142)



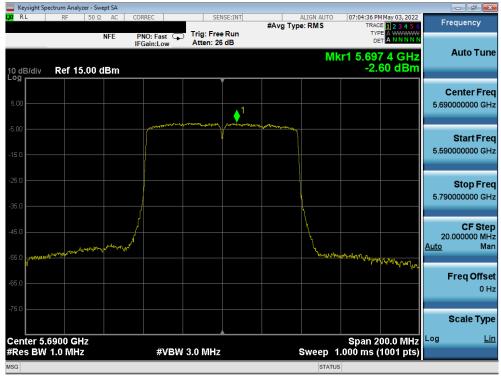
Plot 7-232. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ac (UNII Band 2C) - Ch. 106)

| FCC ID: A3LSMF721JPN | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
|------------------------|---------------------------------------|------------------|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 450 of 205 |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 150 of 305 |





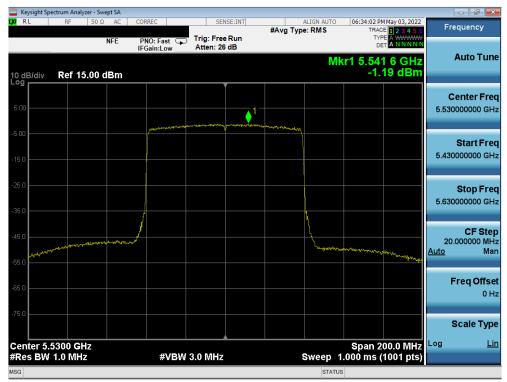
Plot 7-233. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ac (UNII Band 2C) - Ch. 122)



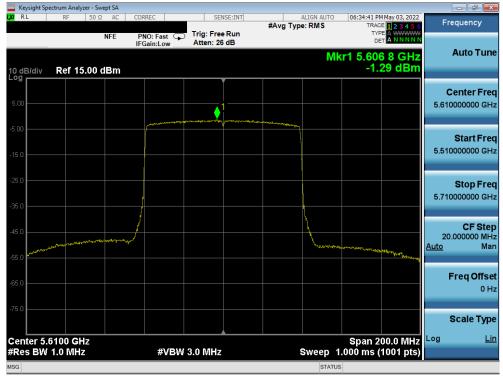
Plot 7-234. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ac (UNII Band 2C) - Ch. 138)

| FCC ID: A3LSMF721JPN | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
|------------------------|---------------------------------------|------------------|--------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 454 of 205 |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 151 of 305 |





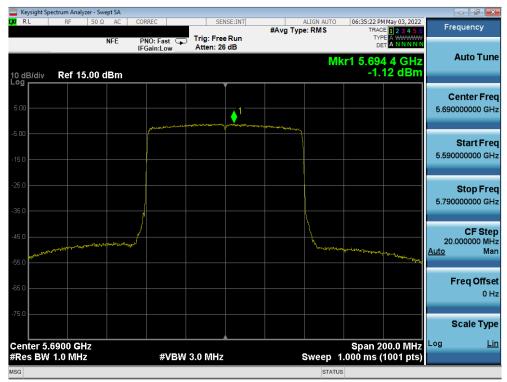
Plot 7-235. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax (UNII Band 2C) - Ch. 106)



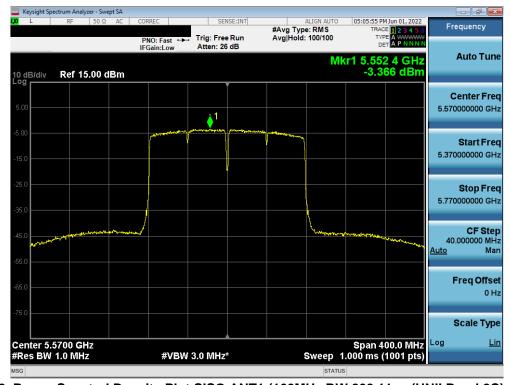
Plot 7-236. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax (UNII Band 2C) - Ch. 122)

| FCC ID: A3LSMF721JPN | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
|------------------------|---------------------------------------|------------------|--------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 452 of 205 |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 152 of 305 |





Plot 7-237. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax (UNII Band 2C) - Ch. 138)



Plot 7-238. Power Spectral Density Plot SISO ANT1 (160MHz BW 802.11ac (UNII Band 2C) - Ch. 114)

| FCC ID: A3LSMF721JPN | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
|------------------------|---------------------------------------|------------------|--------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 452 of 205 |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 153 of 305 |

V9.0 02/01/2019





Plot 7-239. Power Spectral Density Plot SISO ANT1 (160MHz BW 802.11ax (UNII Band 2C) - Ch. 114)

| FCC ID: A3LSMF721JPN | | MEASUREMENT REPORT (CERTIFICATION) | | |
|------------------------|----------------------|------------------------------------|-----------------|--|
| Test Report S/N: | Test Dates: | EUT Type: | Page 154 of 305 | |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 154 01 505 | |

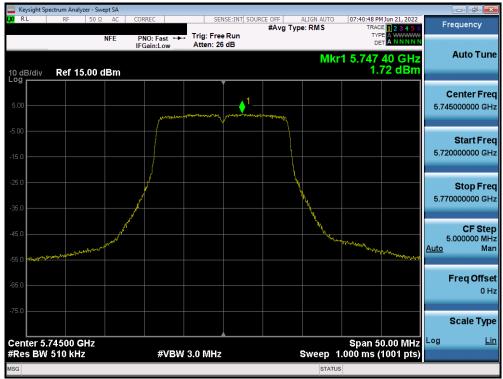


| | Frequency [MHz] | Channel No. | 802.11 Mode | Data Rate [Mbps] | Measured Power Density [dBm] | Max Permissible Power Density [dBm/500kHz] | Margin [dB] |
|------|-----------------|----------------|-------------|------------------|------------------------------|--|----------------|
| | 5745 | 149 | а | 6 | 1.72 | 30.0 | -28.28 |
| | 5785 | 157 | а | 6 | 3.02 | 30.0 | -26.98 |
| | 5825 | 165 | а | 6 | 2.87 | 30.0 | -27.13 |
| | 5745 | 149 | n (20MHz) | 6.5/7.2 (MCS0) | 3.21 | 30.0 | -26.79 |
| | 5785 | 157 | n (20MHz) | 6.5/7.2 (MCS0) | 2.99 | 30.0 | -27.01 |
| | 5825 | 165 | n (20MHz) | 6.5/7.2 (MCS0) | 2.86 | 30.0 | -27.14 |
| က | 5745 | 149 | ax (20MHz) | 6.5/7.2 (MCS0) | 1.81 | 30.0 | -28.19 |
| Band | 5785 | 157 | ax (20MHz) | 6.5/7.2 (MCS0) | 1.86 | 30.0 | -28.14 |
| Ä | 5825 | 165 | ax (20MHz) | 6.5/7.2 (MCS0) | 2.27 | 30.0 | -27.73 |
| | 5755 | 151 | n (40MHz) | 13.5/15 (MCS0) | -0.43 | 30.0 | -30.43 |
| | 5795 | 159 | n (40MHz) | 13.5/15 (MCS0) | -0.62 | 30.0 | -30.62 |
| | 5755 | 151 | ax (40MHz) | 13.5/15 (MCS0) | -1.11 | 30.0 | -31.11 |
| | 5795 | 159 | ax (40MHz) | 13.5/15 (MCS0) | -0.96 | 30.0 | -30.96 |
| | 5775 | 155 | ac (80MHz) | 29.3/32.5 (MCS0) | -5.78 | 30.0 | -35.78 |
| | 5775 | 155 | ax (80MHz) | 29.3/32.5 (MCS0) | -5.73 | 30.0 | -35.73 |

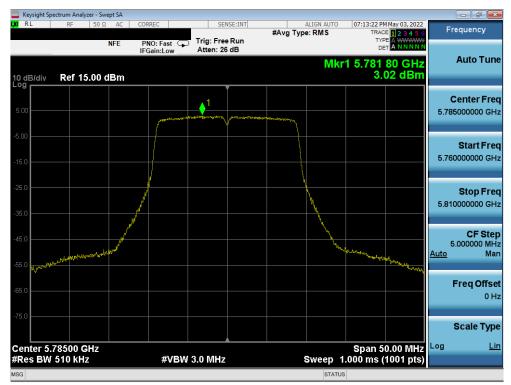
Table 7-24. Band 3 Conducted Power Spectral Density Measurements SISO ANT1

| FCC ID: A3LSMF721JPN | | MEASUREMENT REPORT (CERTIFICATION) | | |
|------------------------|----------------------|------------------------------------|-----------------|--|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 455 of 205 | |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 155 of 305 | |





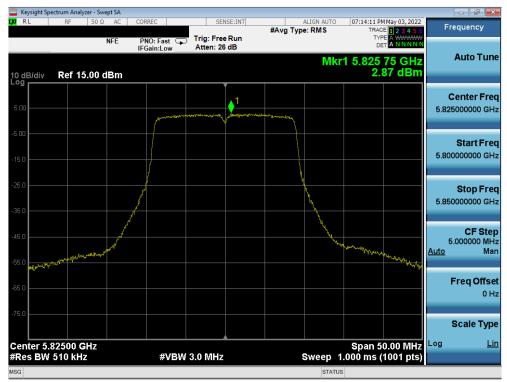
Plot 7-240. Power Spectral Density Plot SISO ANT1 (802.11a (UNII Band 3) - Ch. 149)



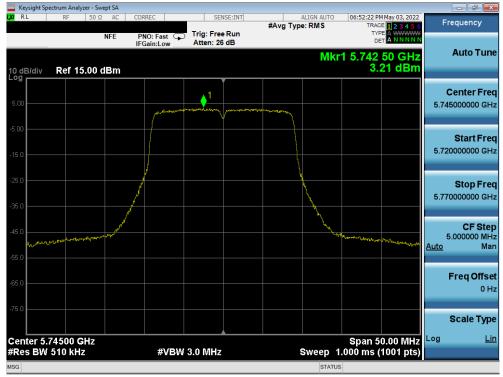
Plot 7-241. Power Spectral Density Plot SISO ANT1 (802.11a (UNII Band 3) - Ch. 157)

| FCC ID: A3LSMF721JPN | | MEASUREMENT REPORT (CERTIFICATION) | | |
|------------------------|----------------------|---------------------------------------|-----------------|--|
| Test Report S/N: | Test Dates: | EUT Type: | Daga 456 of 205 | |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 156 of 305 | |





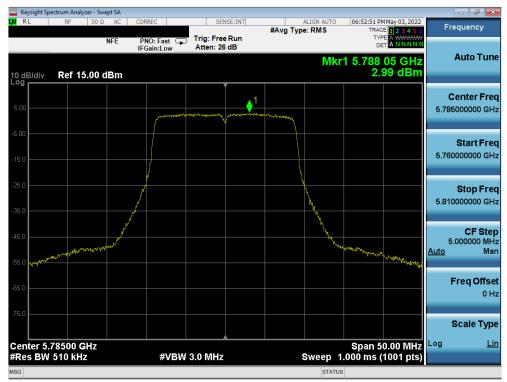
Plot 7-242. Power Spectral Density Plot SISO ANT1 (802.11a (UNII Band 3) - Ch. 165)



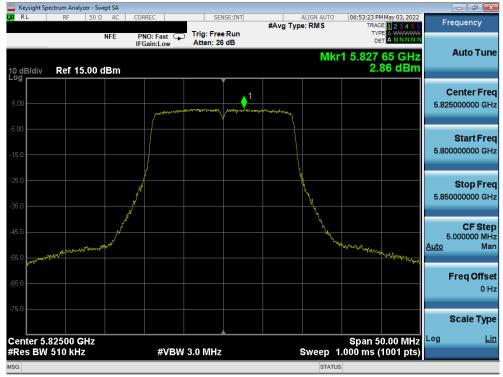
Plot 7-243. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 3) - Ch. 149)

| FCC ID: A3LSMF721JPN | | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
|------------------------|----------------------|---------------------------------------|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 457 of 205 |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 157 of 305 |





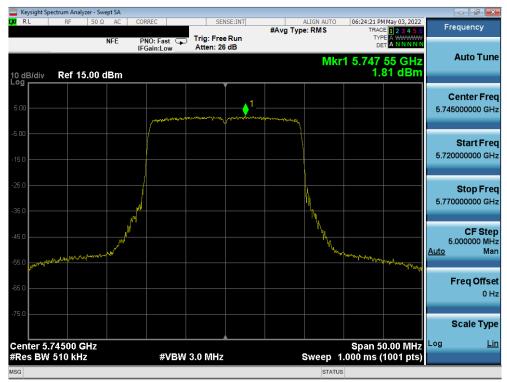
Plot 7-244. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 3) - Ch. 157)



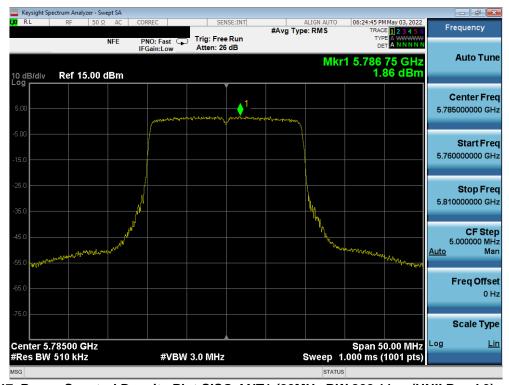
Plot 7-245. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 3) - Ch. 165)

| FCC ID: A3LSMF721JPN | | MEASUREMENT REPORT (CERTIFICATION) | | |
|------------------------|----------------------|------------------------------------|-----------------|--|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 450 of 205 | |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 158 of 305 | |





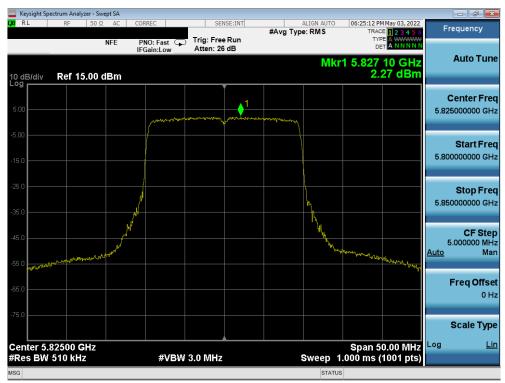
Plot 7-246. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 3) - Ch. 149)



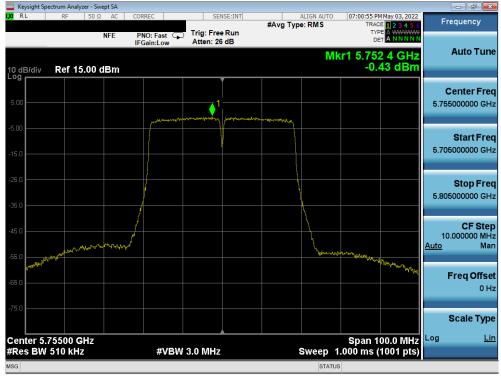
Plot 7-247. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 3) - Ch. 157)

| FCC ID: A3LSMF721JPN | | MEASUREMENT REPORT (CERTIFICATION) | | |
|------------------------|----------------------|------------------------------------|-----------------|--|
| Test Report S/N: | Test Dates: | EUT Type: | | |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 159 of 305 | |





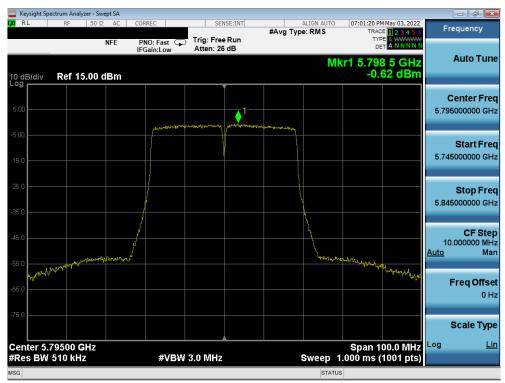
Plot 7-248. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 3) - Ch. 165)



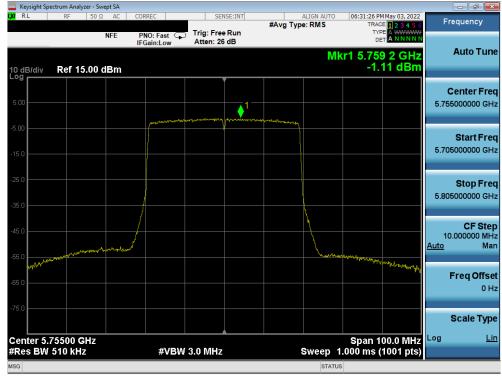
Plot 7-249. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 3) - Ch. 151)

| FCC ID: A3LSMF721JPN | | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
|------------------------|----------------------|---------------------------------------|--------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 400 of 205 |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 160 of 305 |





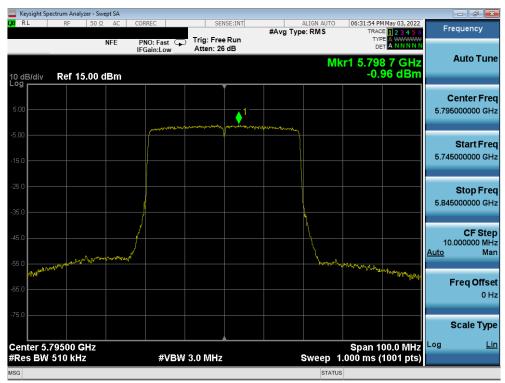
Plot 7-250. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 3) - Ch. 159)



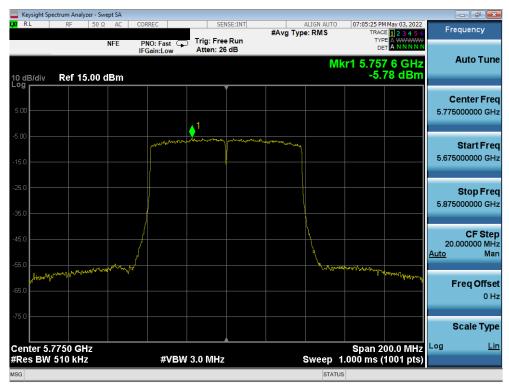
Plot 7-251. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 3) - Ch. 151)

| FCC ID: A3LSMF721JPN | | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
|------------------------|----------------------|---------------------------------------|--------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 464 of 205 |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 161 of 305 |





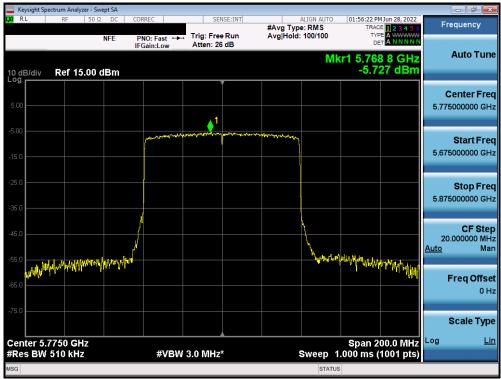
Plot 7-252. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 3) - Ch. 159)



Plot 7-253. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ac (UNII Band 3) - Ch. 155)

| FCC ID: A3LSMF721JPN | | MEASUREMENT REPORT (CERTIFICATION) | | |
|------------------------|----------------------|------------------------------------|-----------------|--|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 462 of 205 | |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 162 of 305 | |





Plot 7-254. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax (UNII Band 3) - Ch. 155)

| FCC ID: A3LSMF721JPN | | MEASUREMENT REPORT (CERTIFICATION) | | |
|------------------------|----------------------|------------------------------------|-----------------|--|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 462 of 205 | |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 163 of 305 | |

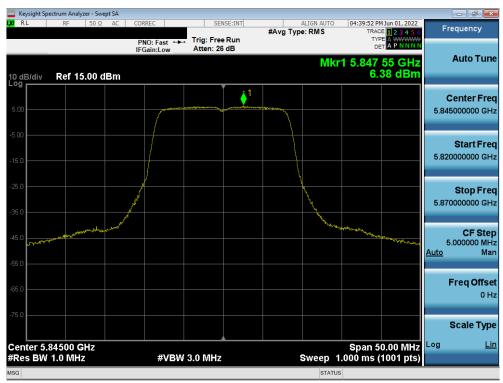


| | Frequency [MHz] | Channel No. | 802.11 Mode | Data Rate [Mbps] | Measured Power Density [dBm/MHz] | Max Permissible Power Density [dBm/500kHz] | Margin [dB] | Antenna Gain [dBi] | EIRP Power Density [dBm/MHz] | Max EIRP Power Density [dBm/MHz] | Margin [dB] |
|-----------|--------------------|----------------|-------------|------------------|--|--|----------------|-----------------------|------------------------------------|--|----------------|
| Band 3/4 | 5845 | 169 | а | 6 | 6.38 | 30.00 | -23.62 | -5.00 | 1.38 | 14.00 | -12.62 |
| Band 4 | 5865 | 173 | а | 6 | 6.36 | | | -5.00 | 1.36 | 14.00 | -12.64 |
| Dallu 4 | 5885 | 177 | а | 6 | 6.67 | | | -5.00 | 1.67 | 14.00 | -12.33 |
| Band 3/4 | 5845 | 169 | n (20MHz) | 6.5/7.2 (MCS0) | 5.91 | 30.00 | -24.09 | -5.00 | 0.91 | 14.00 | -13.09 |
| Band 4 | 5865 | 173 | n (20MHz) | 6.5/7.2 (MCS0) | 5.89 | | | -5.00 | 0.89 | 14.00 | -13.11 |
| Dallu 4 | 5885 | 177 | n (20MHz) | 6.5/7.2 (MCS0) | 6.18 | | | -5.00 | 1.18 | 14.00 | -12.82 |
| Band 3/4 | 5845 | 169 | ac (20MHz) | 6.5/7.2 (MCS0) | 5.94 | 30.00 | -24.06 | -5.00 | 0.94 | 14.00 | -13.06 |
| Band 4 | 5865 | 173 | ac (20MHz) | 6.5/7.2 (MCS0) | 5.91 | | | -5.00 | 0.91 | 14.00 | -13.09 |
| Dallu 4 | 5885 | 177 | ac (20MHz) | 6.5/7.2 (MCS0) | 6.38 | | | -5.00 | 1.38 | 14.00 | -12.62 |
| Band 3/4 | 5845 | 169 | ax (20MHz) | 6.5/7.2 (MCS0) | 4.98 | 30.00 | -25.02 | -5.00 | -0.02 | 14.00 | -14.02 |
| Band 4 | 5865 | 173 | ax (20MHz) | 6.5/7.2 (MCS0) | 5.25 | | | -5.00 | 0.25 | 14.00 | -13.75 |
| Dallu 4 | 5885 | 177 | ax (20MHz) | 6.5/7.2 (MCS0) | 5.32 | | | -5.00 | 0.32 | 14.00 | -13.68 |
| Band 3/4 | 5835 | 167 | n (40MHz) | 13.5/15 (MCS0) | 2.50 | 30.00 | -27.50 | -5.00 | -2.50 | 14.00 | -16.50 |
| Band 4 | 5875 | 175 | n (40MHz) | 13.5/15 (MCS0) | 2.52 | | | -5.00 | -2.48 | 14.00 | -16.48 |
| Band 3/4 | 5835 | 167 | ac (40MHz) | 13.5/15 (MCS0) | 2.50 | 30.00 | -27.50 | -5.00 | -2.50 | 14.00 | -16.50 |
| Band 4 | 5875 | 175 | ac (40MHz) | 13.5/15 (MCS0) | 2.63 | | | -5.00 | -2.37 | 14.00 | -16.37 |
| Band 3/4 | 5835 | 167 | ax (40MHz) | 13.5/15 (MCS0) | 2.23 | 30.00 | -27.77 | -5.00 | -2.77 | 14.00 | -16.77 |
| Band 4 | 5875 | 175 | ax (40MHz) | 13.5/15 (MCS0) | 2.24 | | | -5.00 | -2.76 | 14.00 | -16.76 |
| | 5855 | 171 | ac (80MHz) | 29.3/32.5 (MCS0) | -1.97 | 30.00 | -31.97 | -5.00 | -6.97 | 14.00 | -20.97 |
| Band 3/4 | 5855 | 171 | ax (80MHz) | 29.3/32.5 (MCS0) | -0.86 | 30.00 | -30.86 | -5.00 | -5.86 | 14.00 | -19.86 |
| Dalia 3/4 | 5815 | 163 | ac (160MHz) | 58.5/65 (MCS0) | -6.78 | 30.00 | -36.78 | -5.00 | -11.78 | 14.00 | -25.78 |
| | 5815 | 163 | ax (160MHz) | 58.5/65 (MCS0) | -5.41 | 30.00 | -35.41 | -5.00 | -10.41 | 14.00 | -24.41 |

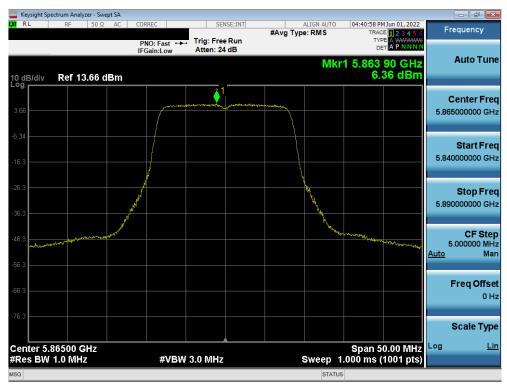
Table 7-25. Band 4 e.i.r.p Power Spectral Density Measurements SISO ANT1

| FCC ID: A3LSMF721JPN | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
|------------------------|---------------------------------------|------------------|--------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 164 of 305 |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Fage 164 01 303 |





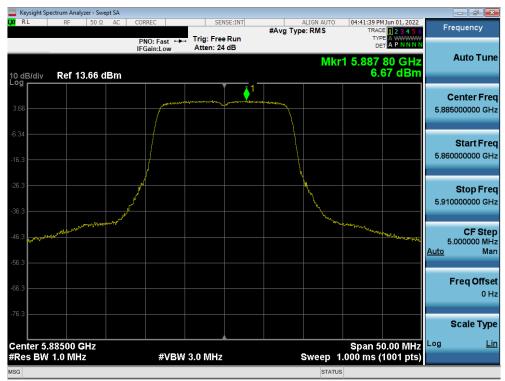
Plot 7-255. Power Spectral Density SISO ANT1 (802.11a (UNII Band 3/4) - Ch. 169)



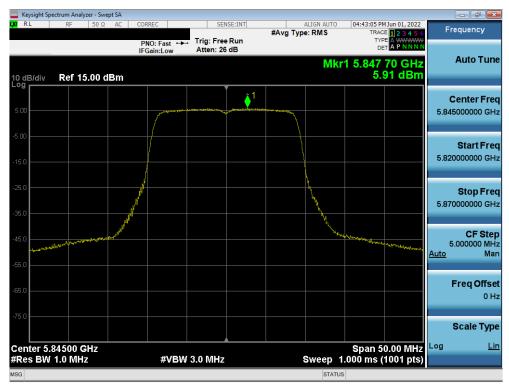
Plot 7-256. Power Spectral Density SISO ANT1 (802.11a (UNII Band 4) - Ch. 173)

| FCC ID: A3LSMF721JPN | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
|------------------------|---------------------------------------|------------------|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 465 of 205 |
| 1M2206140073-11-R1.A3L | 4/8/2022 - 7/30/2022 | Portable Handset | Page 165 of 305 |





Plot 7-257. Power Spectral Density SISO ANT1 (802.11a (UNII Band 4) - Ch. 177)



Plot 7-258. Power Spectral Density SISO ANT1 (20MHz BW 802.11n (UNII Band 3/4) - Ch. 169)

| FCC ID: A3LSMF721JPN | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
|------------------------|---------------------------------------|------------------|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dog 466 of 205 |
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