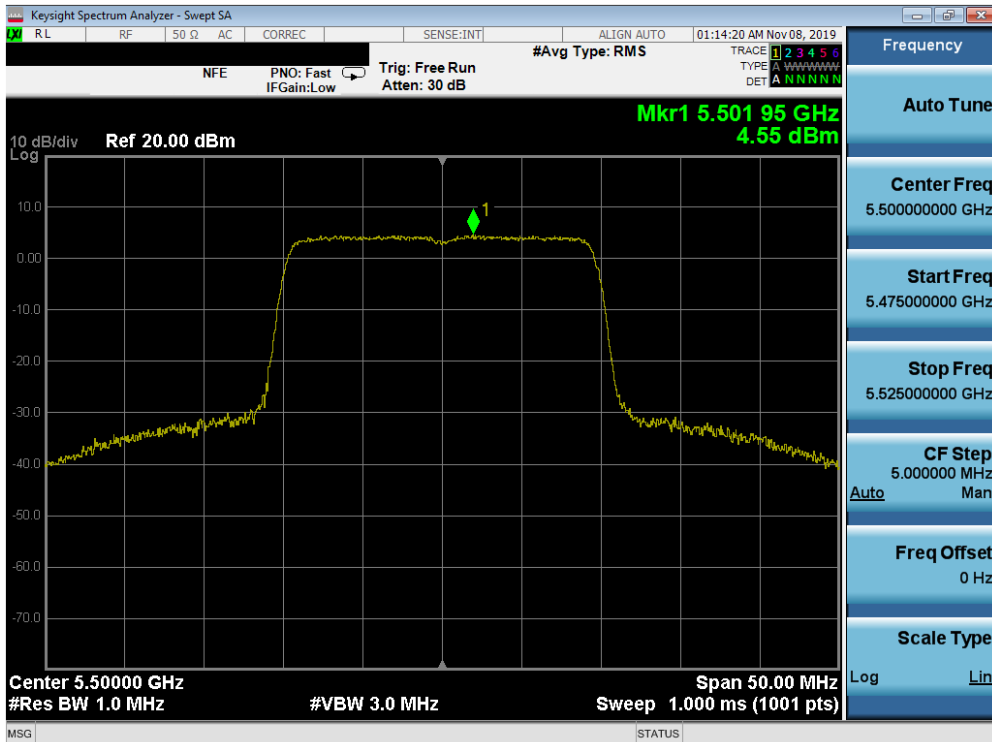
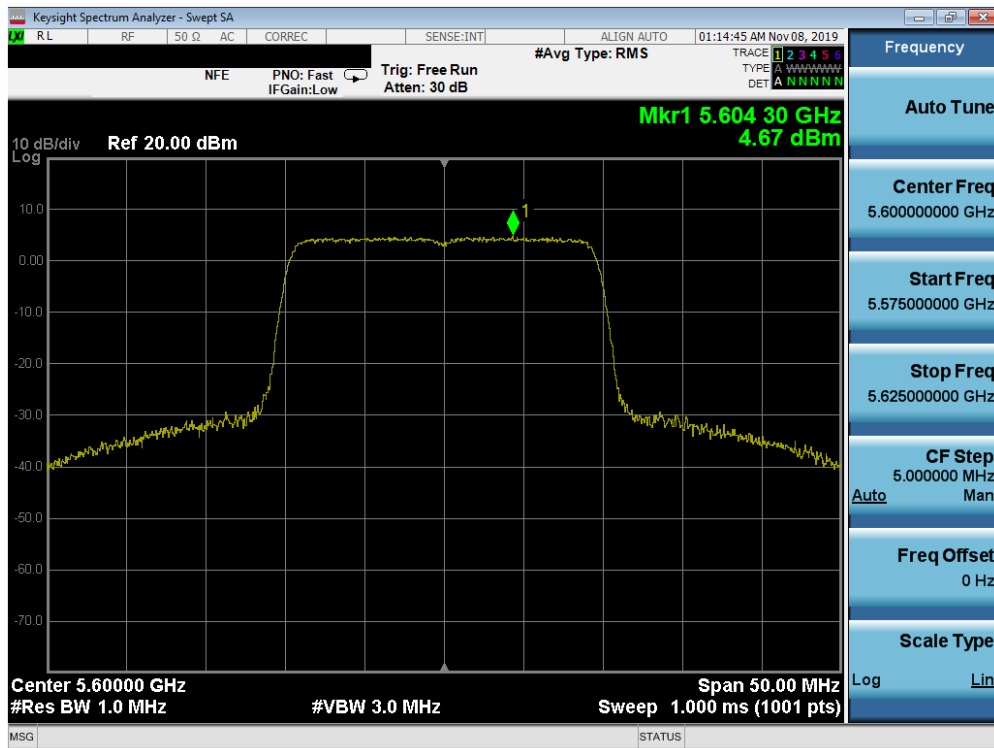


Plot 7-234. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 2C) – Ch. 144)

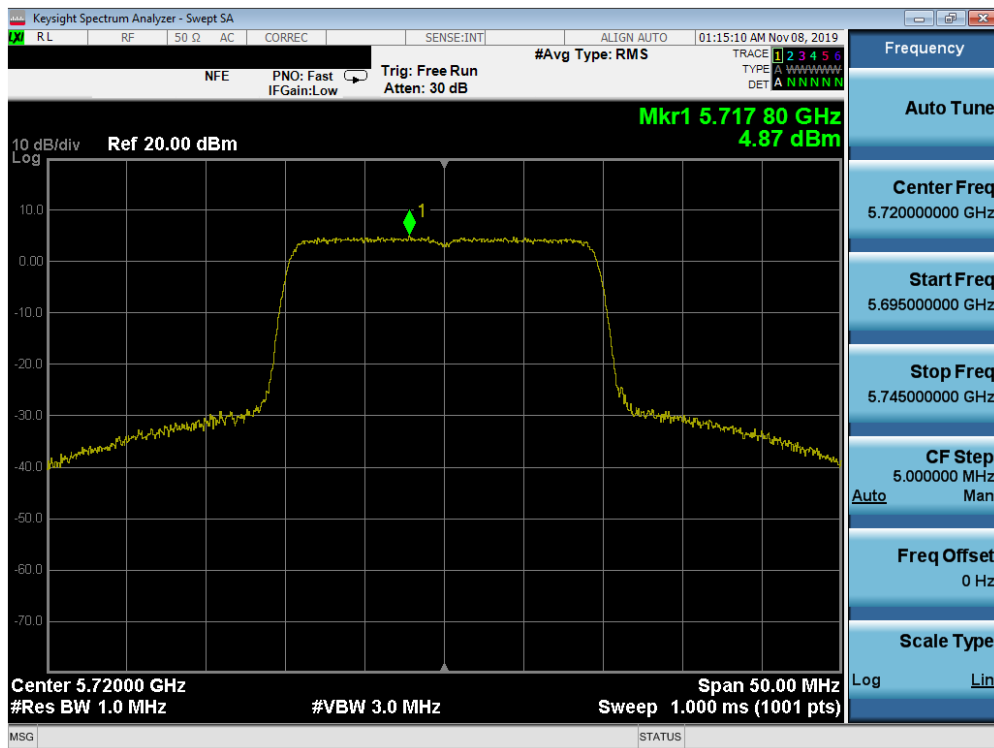


Plot 7-235. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 2C) – Ch. 100)

| | | | | |
|---|----------------------------------|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSMG981U | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1910220165-06.A3L | Test Dates: 10/22 - 1/04/2020 | EUT Type: Portable Handset | | Page 149 of 240 |

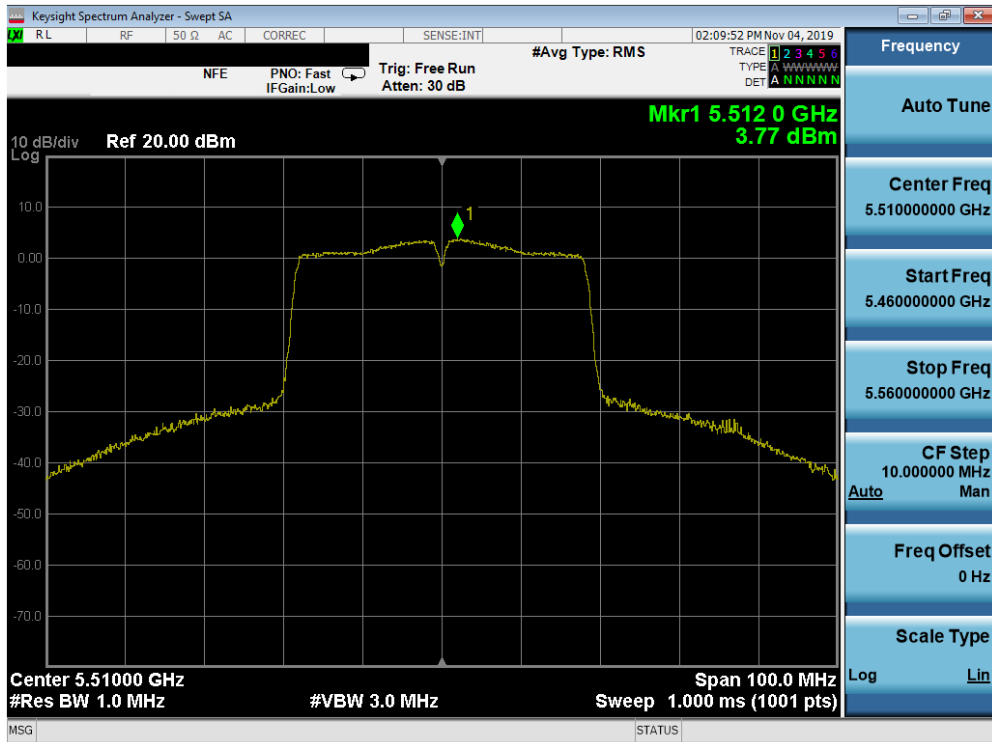


Plot 7-236. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 2C) – Ch. 120)

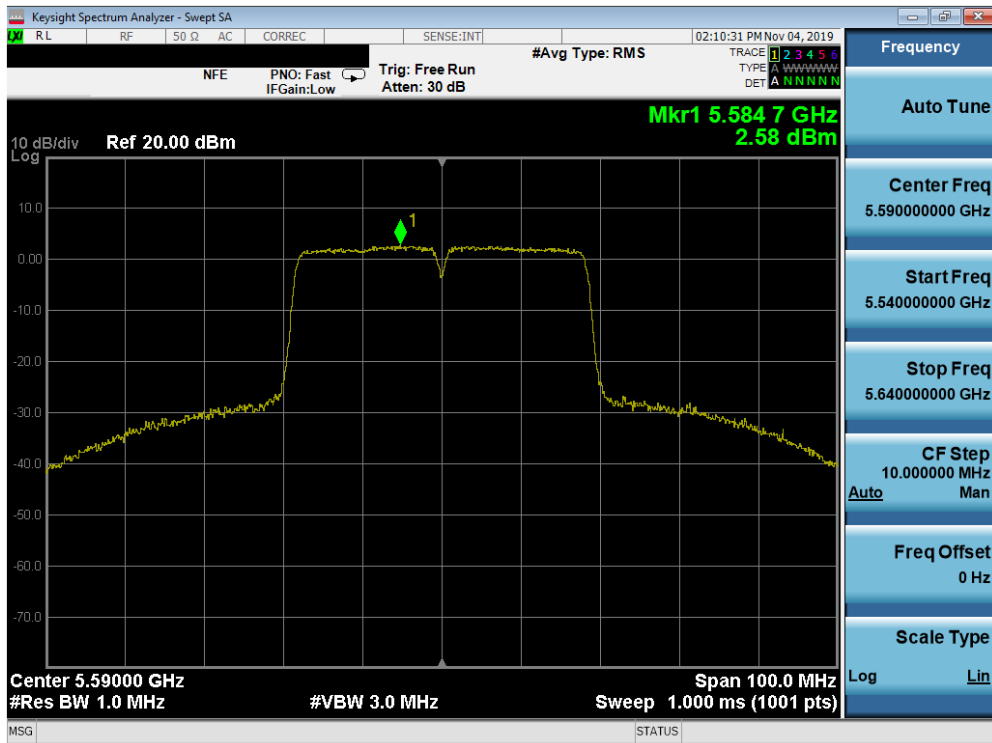


Plot 7-237. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 2C) – Ch. 144)

| | | | | |
|---|----------------------------------|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSMG981U | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1910220165-06.A3L | Test Dates: 10/22 - 1/04/2020 | EUT Type: Portable Handset | | Page 150 of 240 |

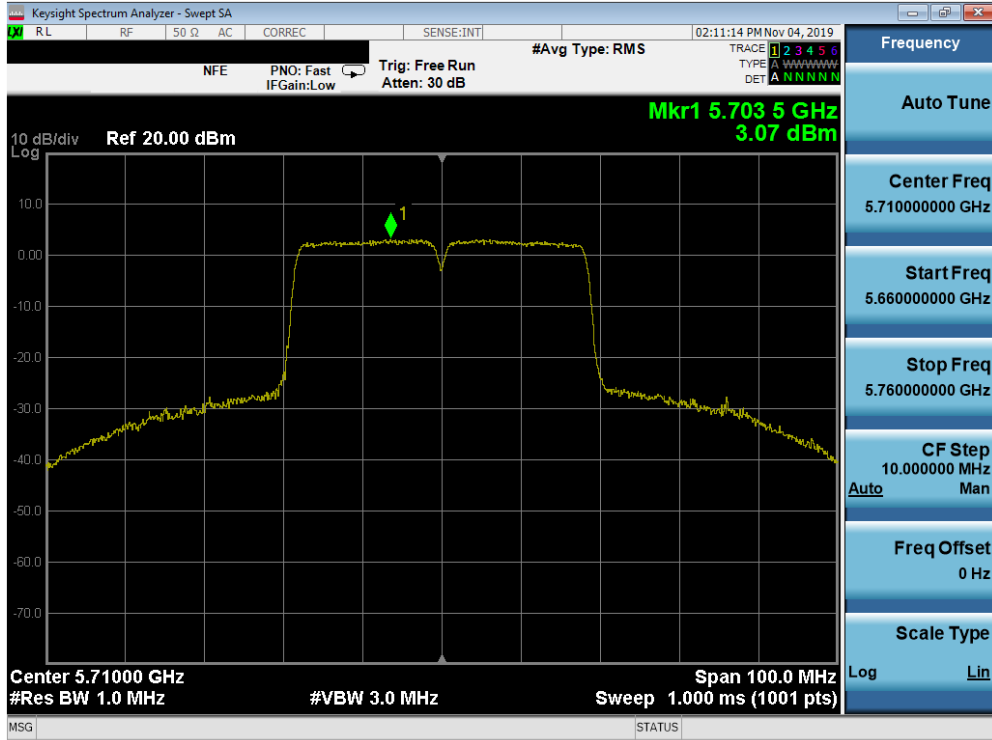


Plot 7-238. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 2C) – Ch. 102)

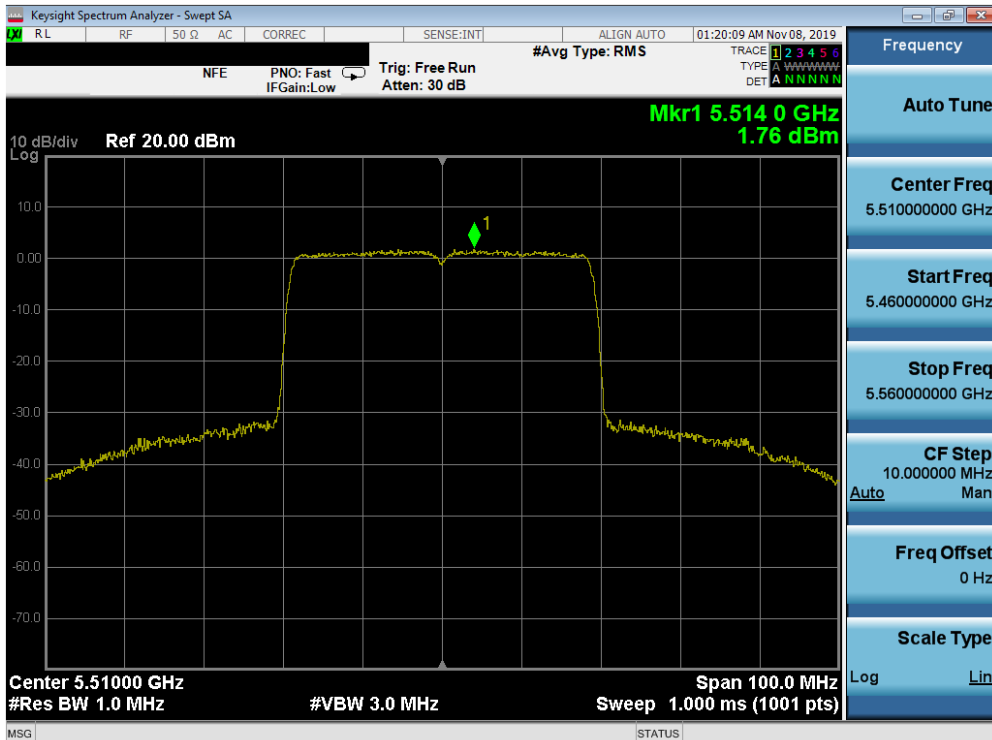


Plot 7-239. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 2C) – Ch. 118)

| | | | | |
|---|----------------------------------|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSMG981U | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1910220165-06.A3L | Test Dates: 10/22 - 1/04/2020 | EUT Type: Portable Handset | | Page 151 of 240 |

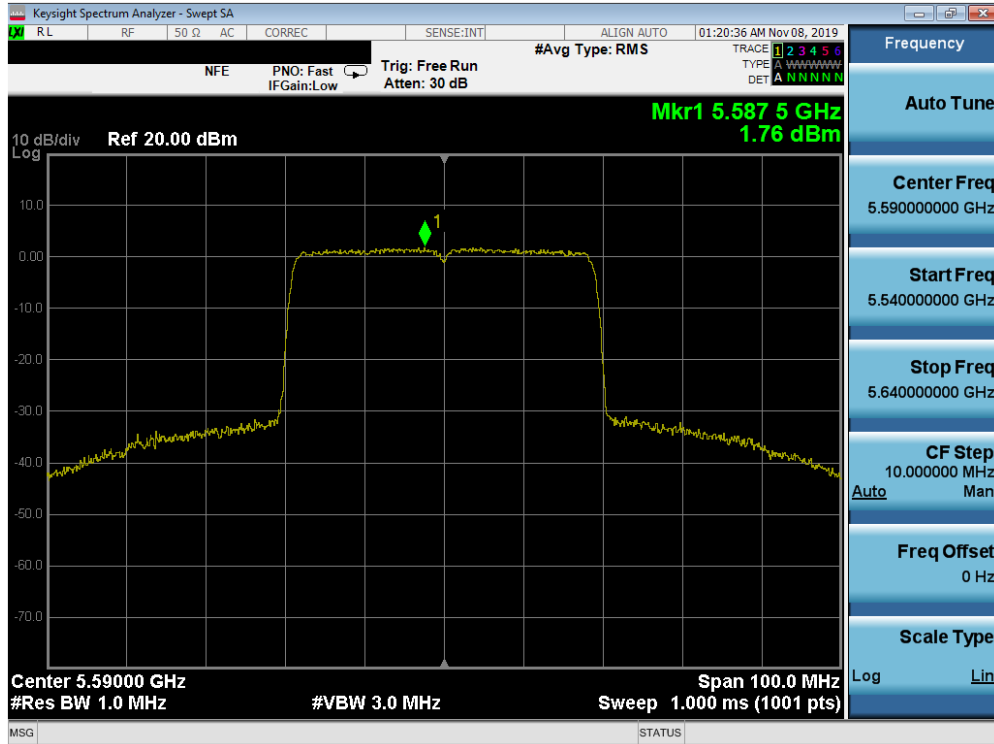


Plot 7-240. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 2C) – Ch. 142)

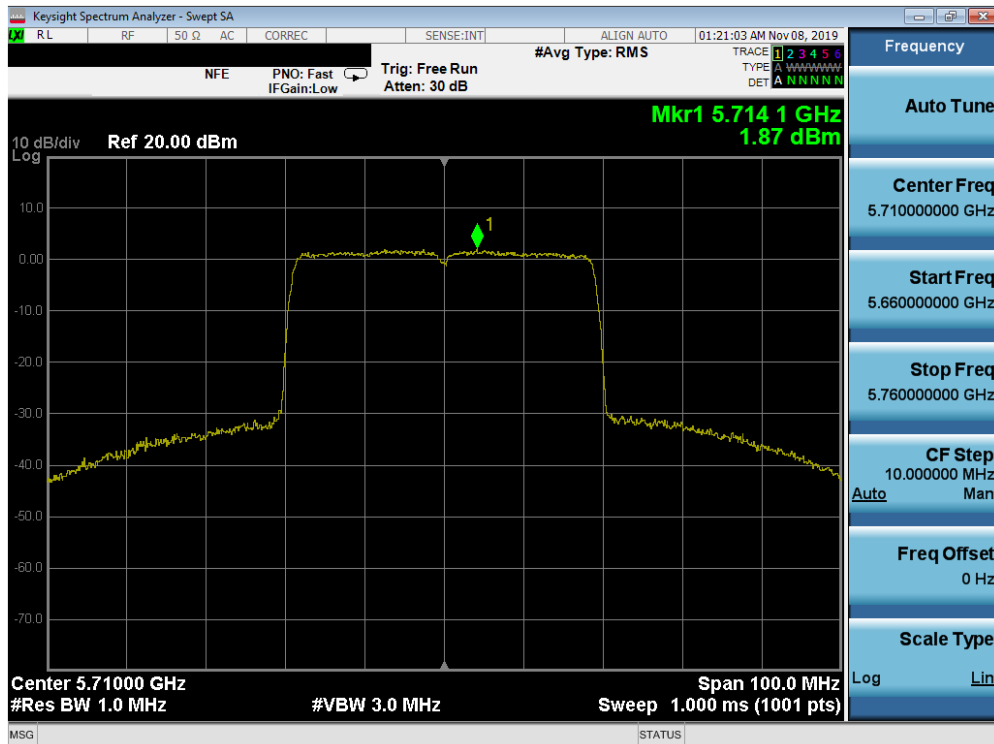


Plot 7-241. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax (UNII Band 2C) – Ch. 102)

| | | | | |
|---|--|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSMG981U | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1910220165-06.A3L | Test Dates: 10/22 - 1/04/2020 | EUT Type: Portable Handset | | Page 152 of 240 |

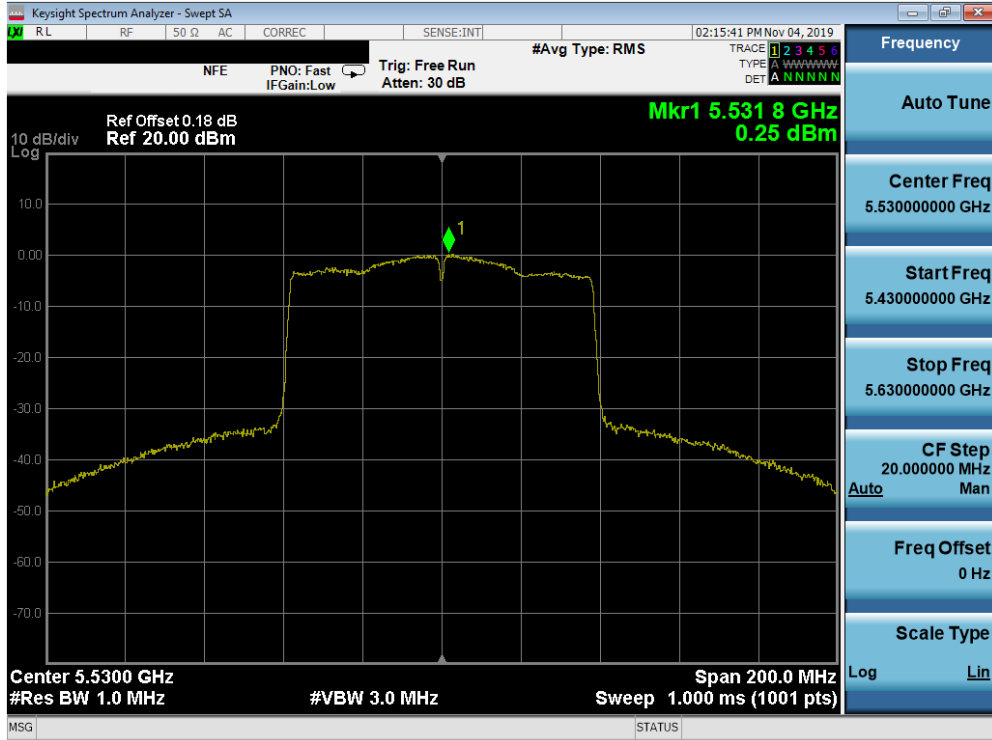


Plot 7-242. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax (UNII Band 2C) – Ch. 118)

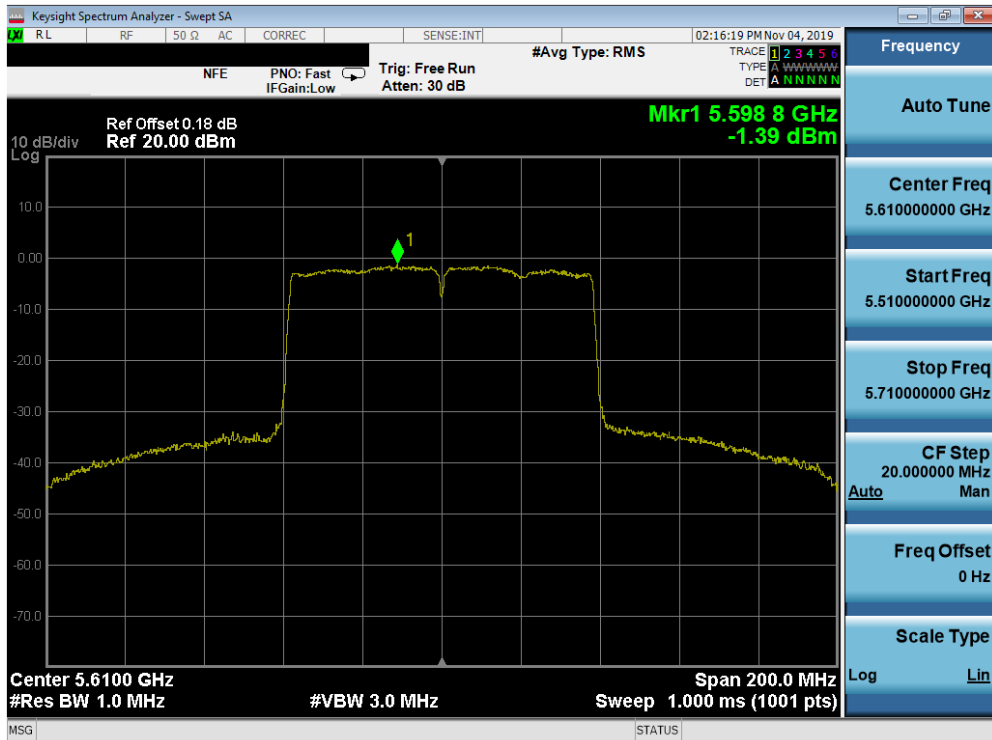


Plot 7-243. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax (UNII Band 2C) – Ch. 142)

| | | | | |
|---|----------------------------------|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSMG981U | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1910220165-06.A3L | Test Dates: 10/22 - 1/04/2020 | EUT Type: Portable Handset | | Page 153 of 240 |

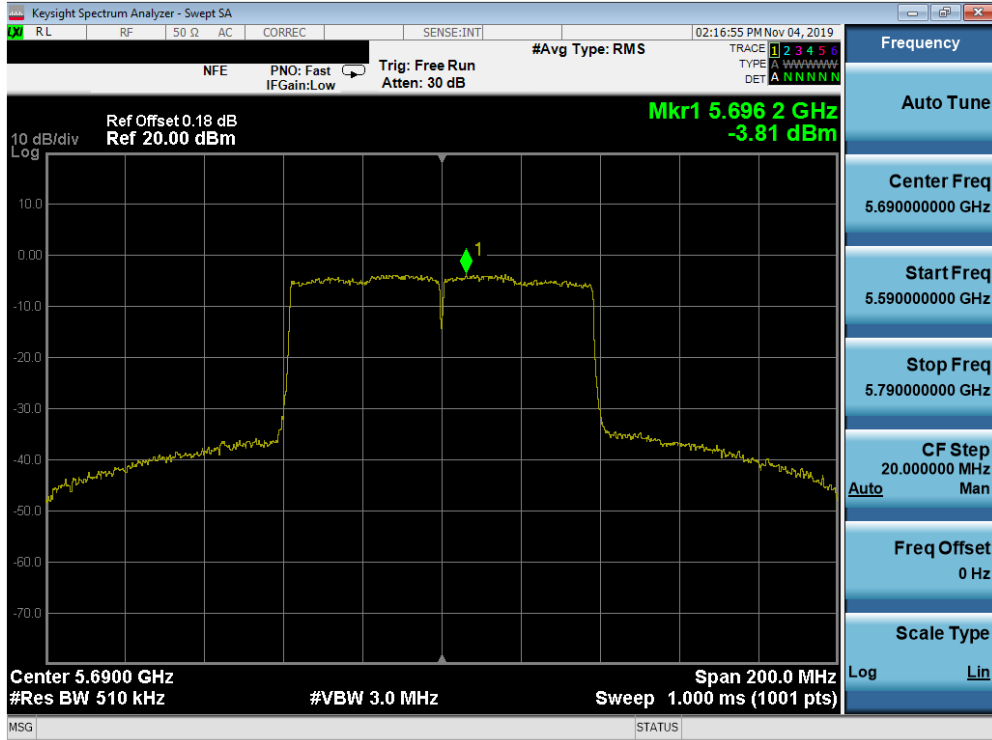


Plot 7-244. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ac (UNII Band 2C) – Ch. 106)

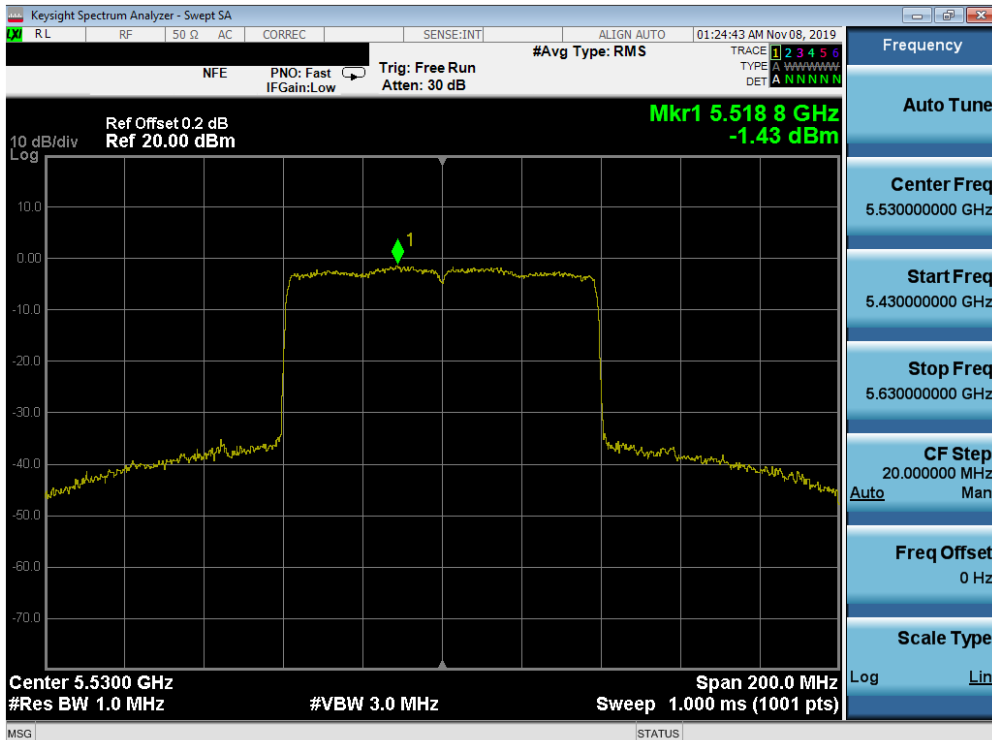


Plot 7-245. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ac (UNII Band 2C) – Ch. 122)

| | | | | |
|---|---|---------------------------------------|---|---------------------------------|
| FCC ID: A3LSMG981U |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M1910220165-06.A3L | Test Dates: 10/22 - 1/04/2020 | EUT Type: Portable Handset | | Page 154 of 240 |

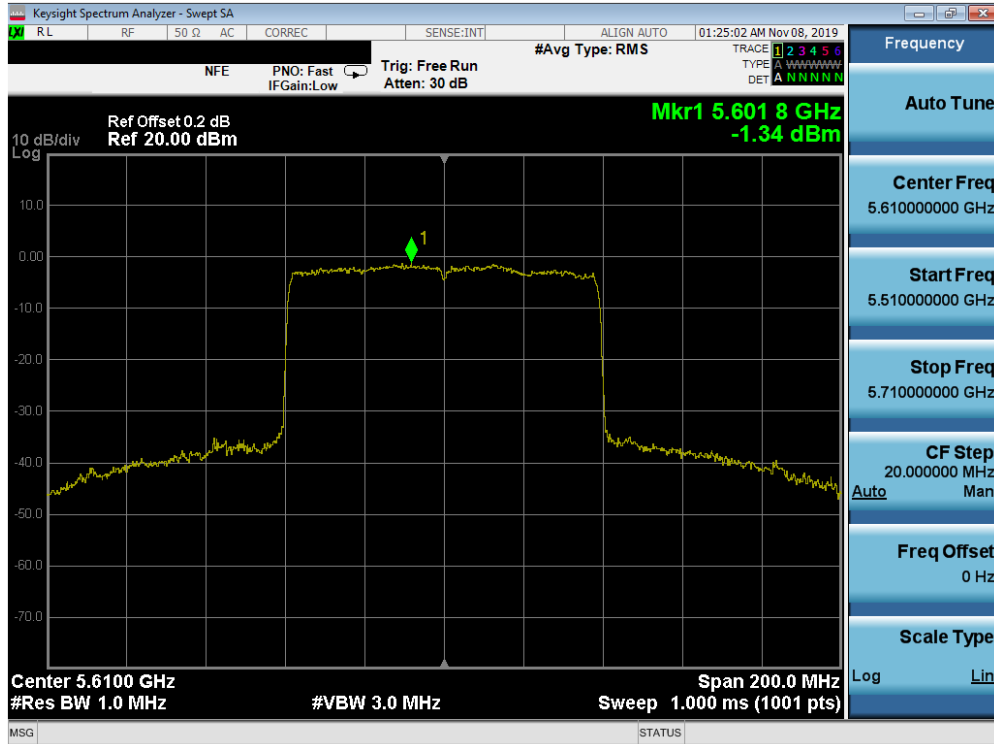


Plot 7-246. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ac (UNII Band 2C) – Ch. 138)

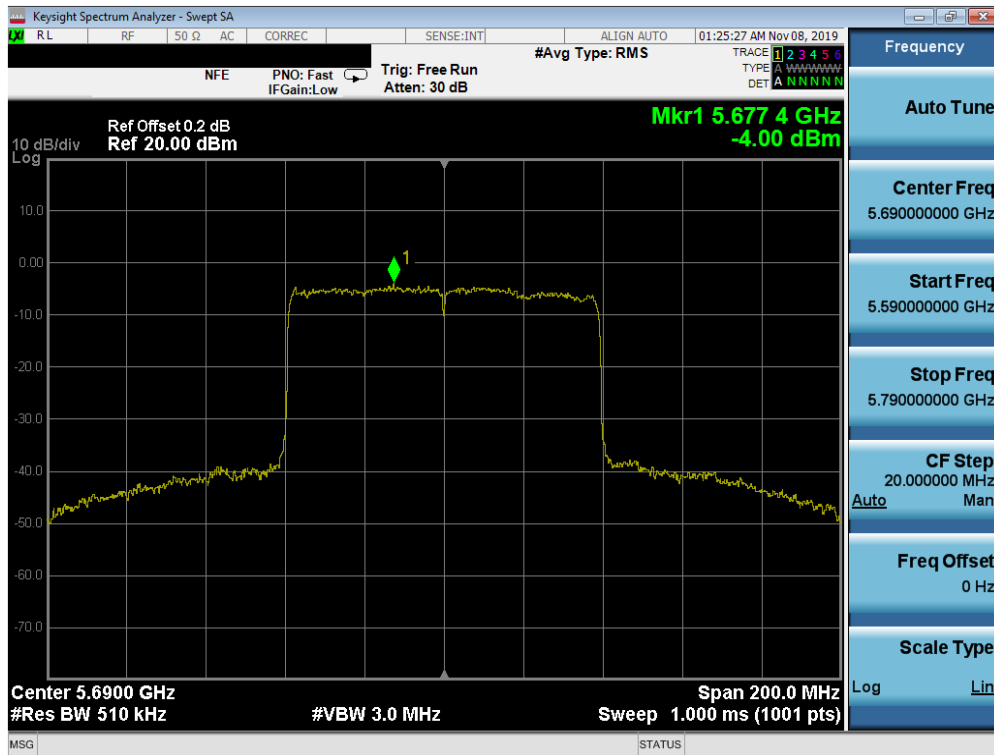


Plot 7-247. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax (UNII Band 2C) – Ch. 106)

| | | | | |
|---|---|---------------------------------------|---|---------------------------------|
| FCC ID: A3LSMG981U |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M1910220165-06.A3L | Test Dates: 10/22 - 1/04/2020 | EUT Type: Portable Handset | | Page 155 of 240 |



Plot 7-248. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax (UNII Band 2C) – Ch. 122)

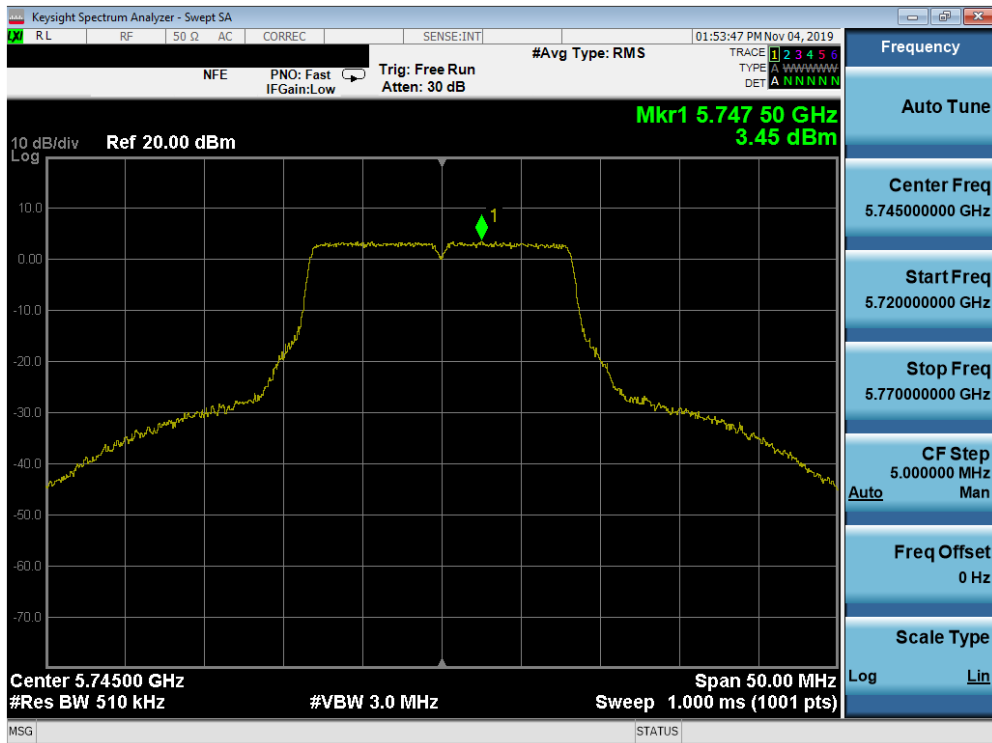


Plot 7-249. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax (UNII Band 2C) – Ch. 138)

| | | | | |
|---|--|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSMG981U | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1910220165-06.A3L | Test Dates: 10/22 - 1/04/2020 | EUT Type: Portable Handset | | Page 156 of 240 |

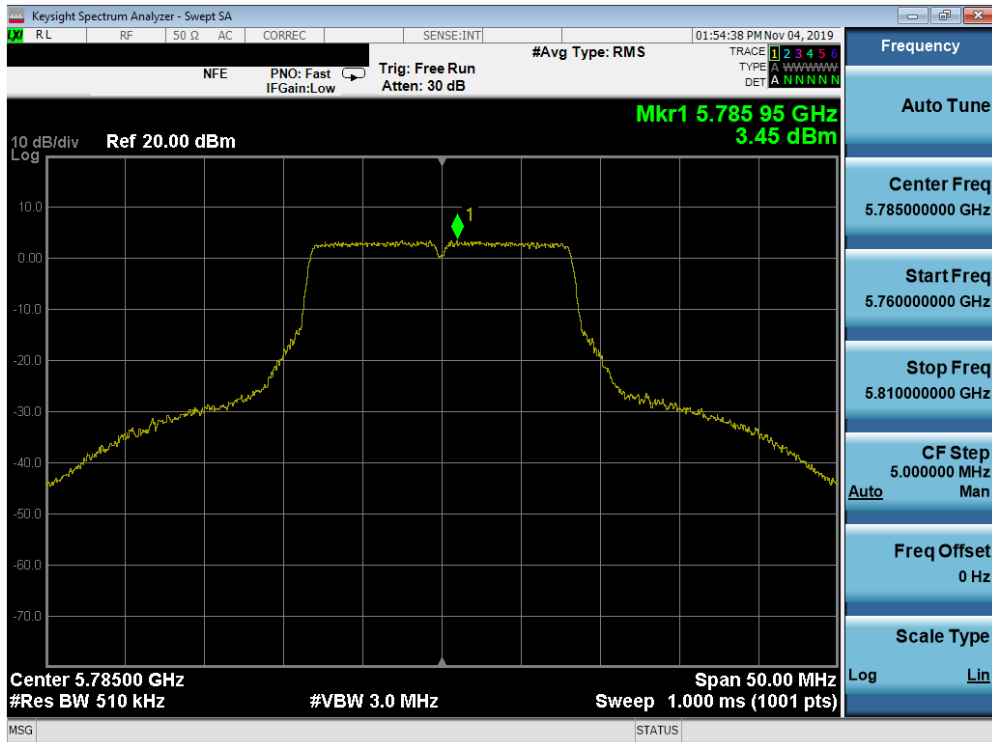
| | Frequency [MHz] | Channel No. | 802.11 Mode | Data Rate [Mbps] | Measured Power Density [dBm] | Max Permissible Power Density [dBm/500kHz] | Margin [dB] |
|---------------|-----------------|-------------|-------------|------------------|------------------------------|--|-------------|
| Band 3 | 5745 | 149 | a | 6 | 3.45 | 30.0 | -26.55 |
| | 5785 | 157 | a | 6 | 3.45 | 30.0 | -26.55 |
| | 5825 | 165 | a | 6 | 3.26 | 30.0 | -26.74 |
| | 5745 | 149 | n (20MHz) | 6.5/7.2 (MCS0) | 3.24 | 30.0 | -26.76 |
| | 5785 | 157 | n (20MHz) | 6.5/7.2 (MCS0) | 3.13 | 30.0 | -26.87 |
| | 5825 | 165 | n (20MHz) | 6.5/7.2 (MCS0) | 3.10 | 30.0 | -26.90 |
| | 5745 | 149 | ax (20MHz) | 6.5/7.2 (MCS0) | 2.09 | 30.0 | -27.91 |
| | 5785 | 157 | ax (20MHz) | 6.5/7.2 (MCS0) | 2.20 | 30.0 | -27.80 |
| | 5825 | 165 | ax (20MHz) | 6.5/7.2 (MCS0) | 2.09 | 30.0 | -27.91 |
| | 5755 | 151 | n (40MHz) | 13.5/15 (MCS0) | 0.37 | 30.0 | -29.63 |
| | 5795 | 159 | n (40MHz) | 13.5/15 (MCS0) | 0.43 | 30.0 | -29.57 |
| | 5755 | 151 | ax (40MHz) | 13.5/15 (MCS0) | -0.86 | 30.0 | -30.86 |
| | 5795 | 159 | ax (40MHz) | 13.5/15 (MCS0) | -0.88 | 30.0 | -30.88 |
| | 5775 | 155 | ac (80MHz) | 29.3/32.5 (MCS0) | -0.57 | 30.0 | -30.57 |
| | 5775 | 155 | ax (80MHz) | 29.3/32.5 (MCS0) | -2.83 | 30.0 | -32.83 |

Table 7-26. Band 3 Conducted Power Spectral Density Measurements SISO ANT2

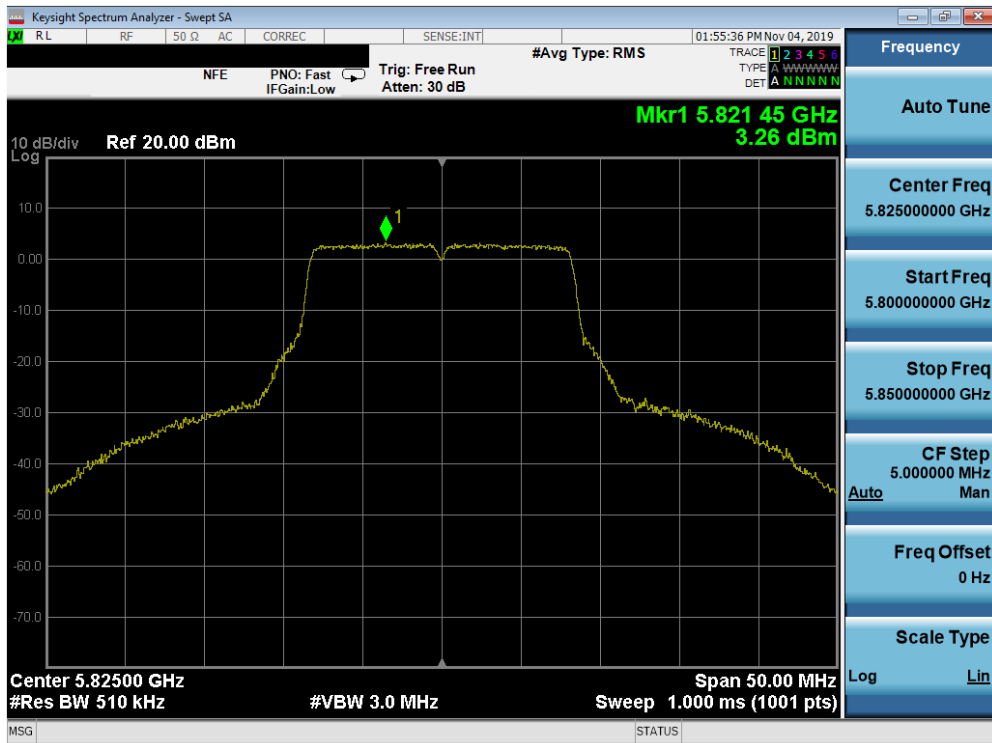


Plot 7-250. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 3) – Ch. 149)

| | | | | | |
|---|----------------------------------|-------------------------------|---|-----------------|---------------------------------|
| FCC ID: A3LSMG981U | | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1910220165-06.A3L | Test Dates: 10/22 - 1/04/2020 | EUT Type: Portable Handset | | Page 157 of 240 | |

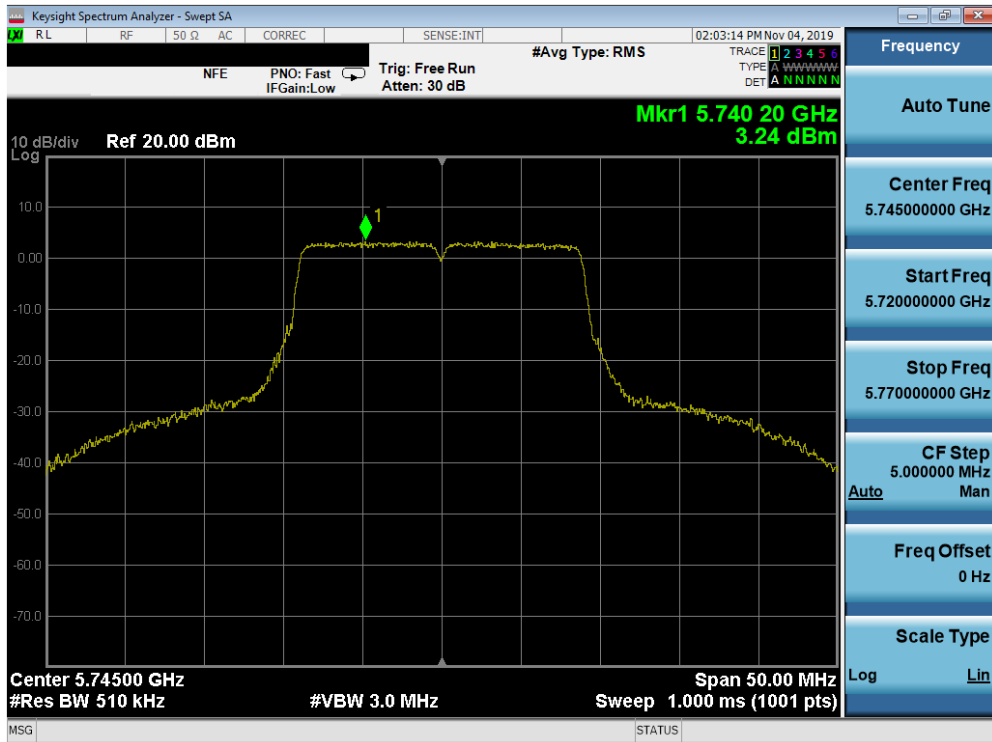


Plot 7-251. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 3) – Ch. 157)

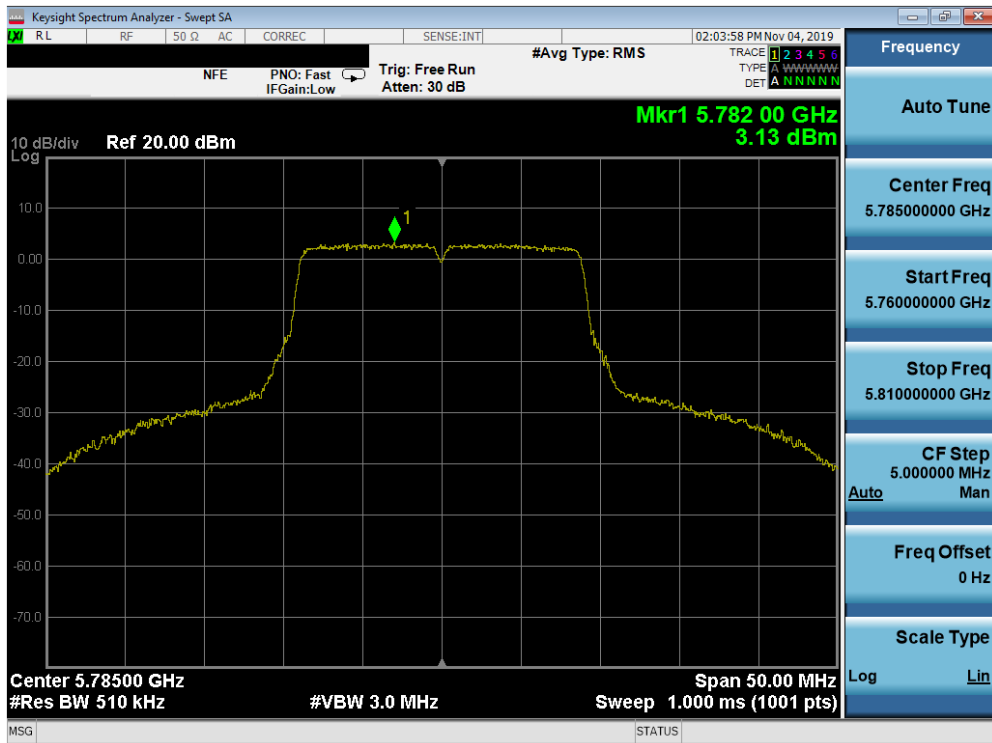


Plot 7-252. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 3) – Ch. 165)

| | | | | |
|---|----------------------------------|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSMG981U | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1910220165-06.A3L | Test Dates: 10/22 - 1/04/2020 | EUT Type: Portable Handset | | Page 158 of 240 |

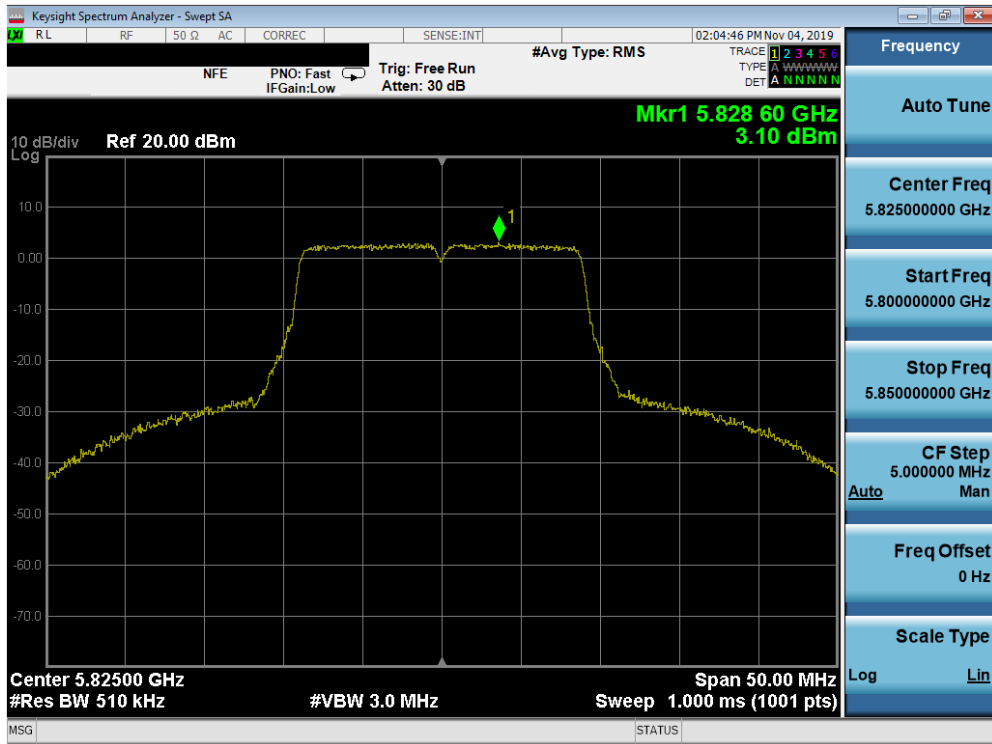


Plot 7-253. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 3) – Ch. 149)

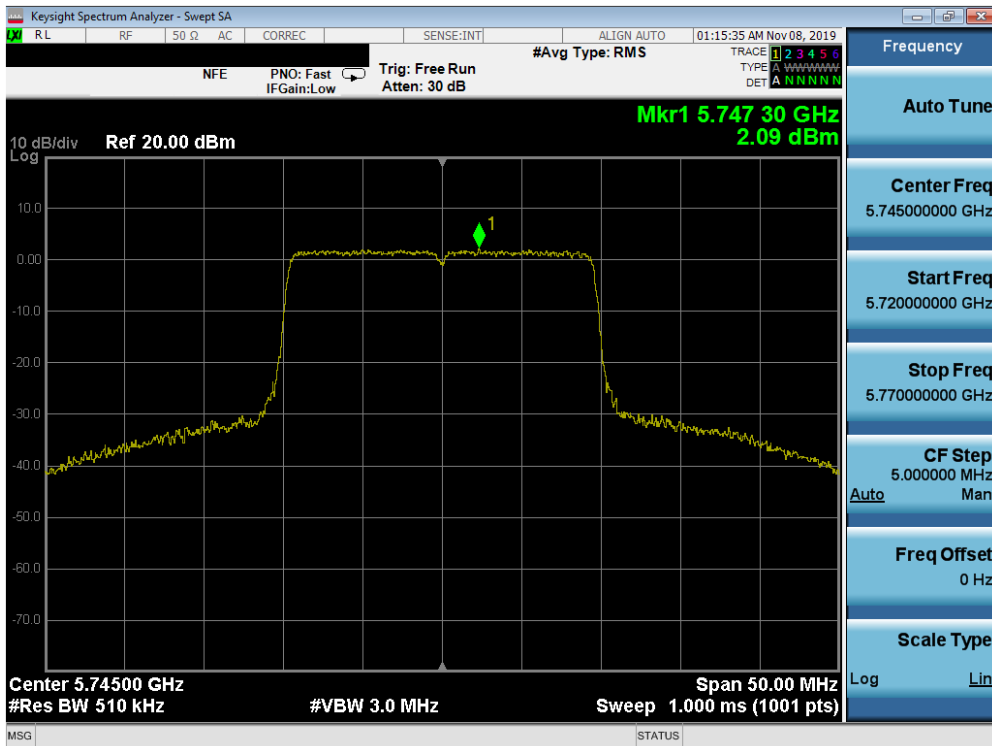


Plot 7-254. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 3) – Ch. 157)

| | | | | |
|---|--|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSMG981U | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1910220165-06.A3L | Test Dates: 10/22 - 1/04/2020 | EUT Type: Portable Handset | | Page 159 of 240 |

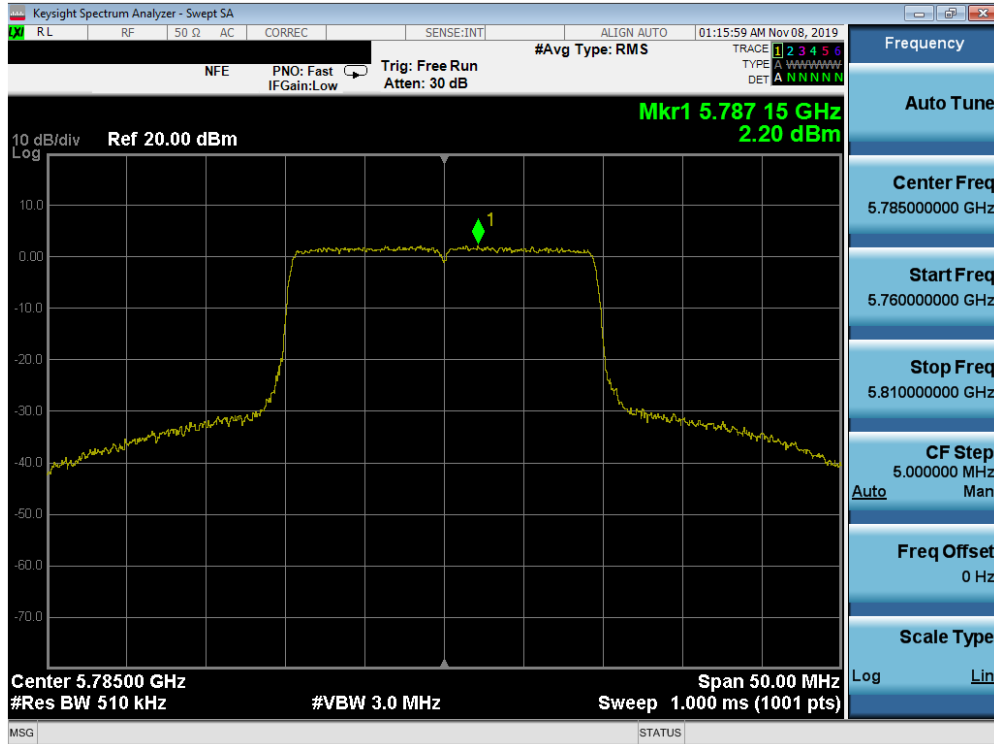


Plot 7-255. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 3) – Ch. 165)

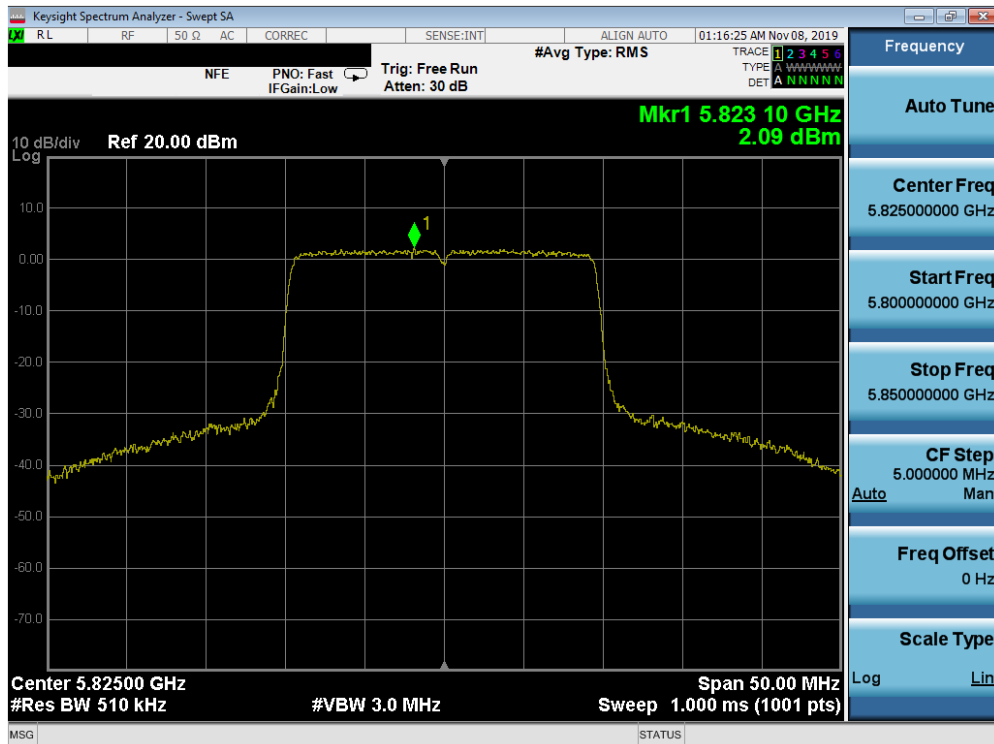


Plot 7-256. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 3) – Ch. 149)

| | | | | |
|---|---|---|---|---------------------------------|
| FCC ID: A3LSMG981U |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M1910220165-06.A3L | Test Dates: 10/22 - 1/04/2020 | EUT Type: Portable Handset | | Page 160 of 240 |

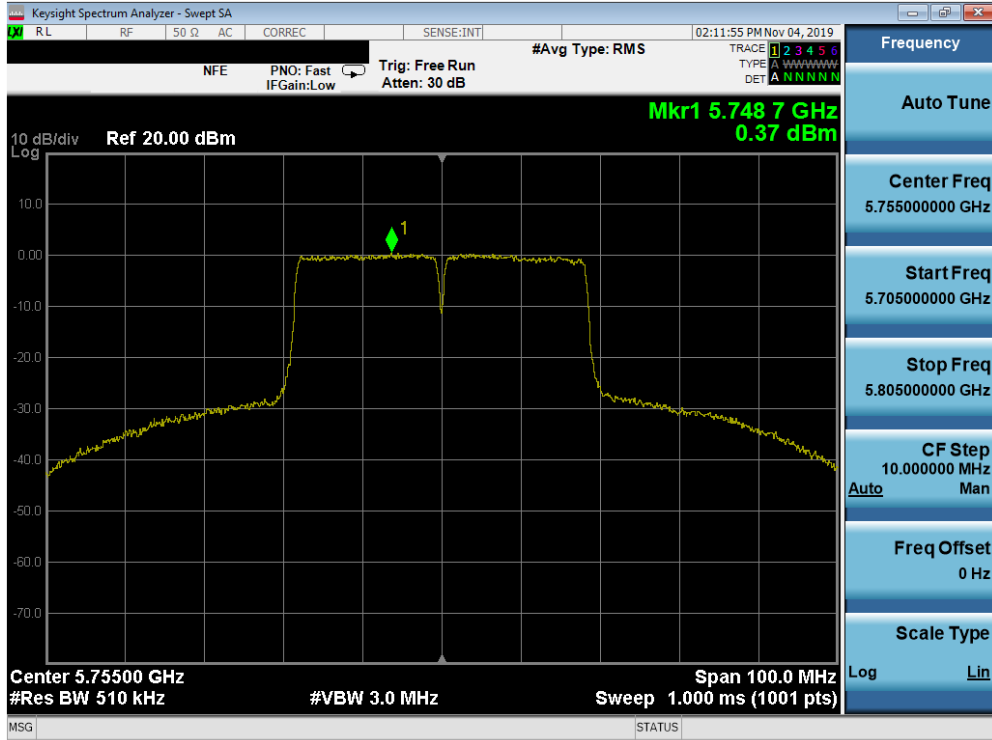


Plot 7-257. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 3) – Ch. 157)

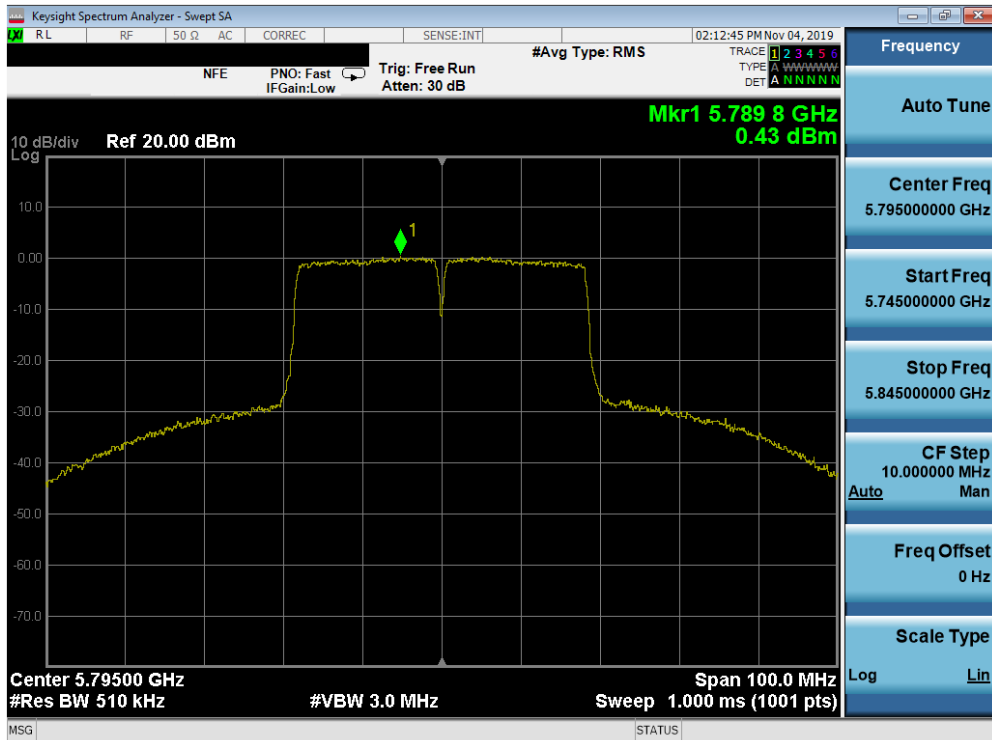


Plot 7-258. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 3) – Ch. 165)

| | | | | |
|---|----------------------------------|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSMG981U | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1910220165-06.A3L | Test Dates: 10/22 - 1/04/2020 | EUT Type: Portable Handset | | Page 161 of 240 |

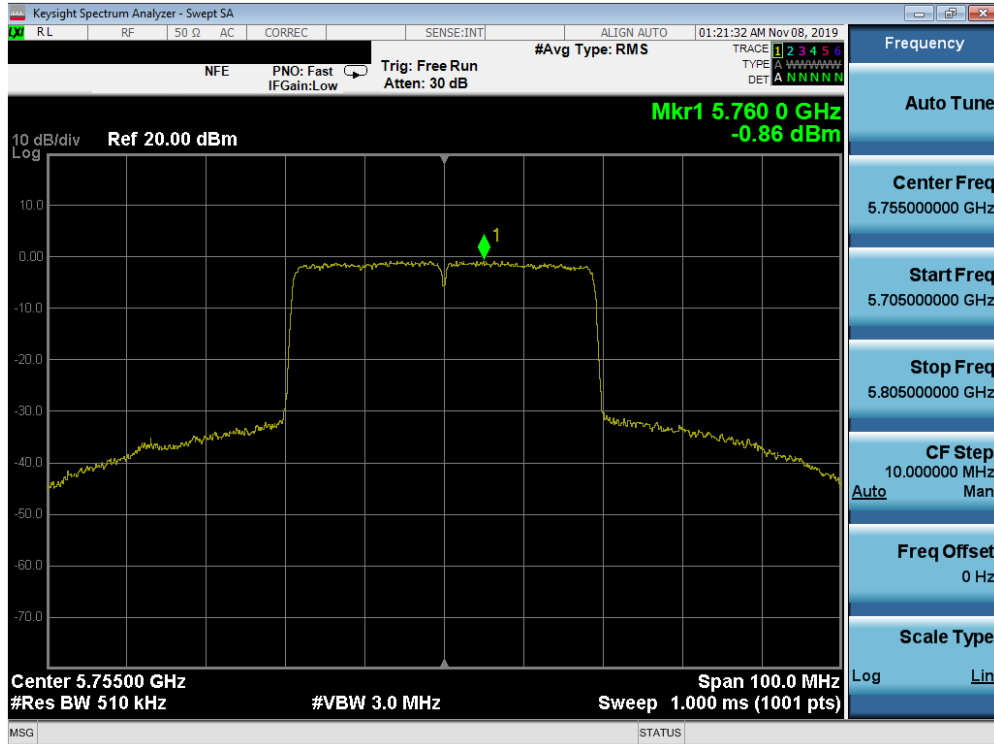


Plot 7-259. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 3) – Ch. 151)

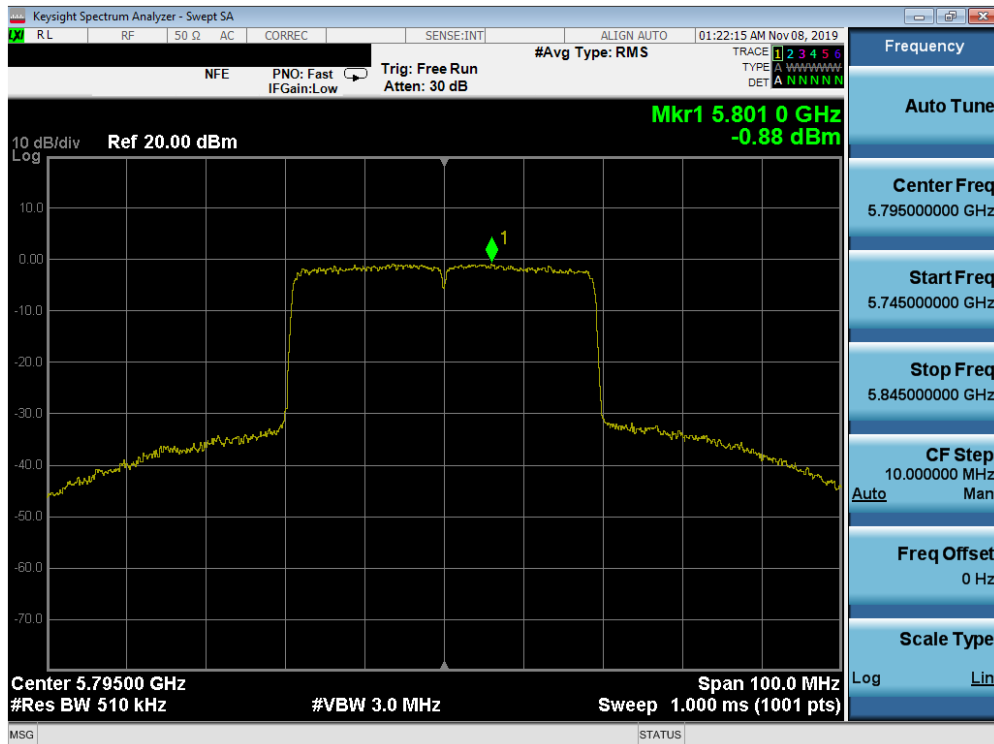


Plot 7-260. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 3) – Ch. 159)

| | | | | |
|---|----------------------------------|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSMG981U | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1910220165-06.A3L | Test Dates: 10/22 - 1/04/2020 | EUT Type: Portable Handset | | Page 162 of 240 |

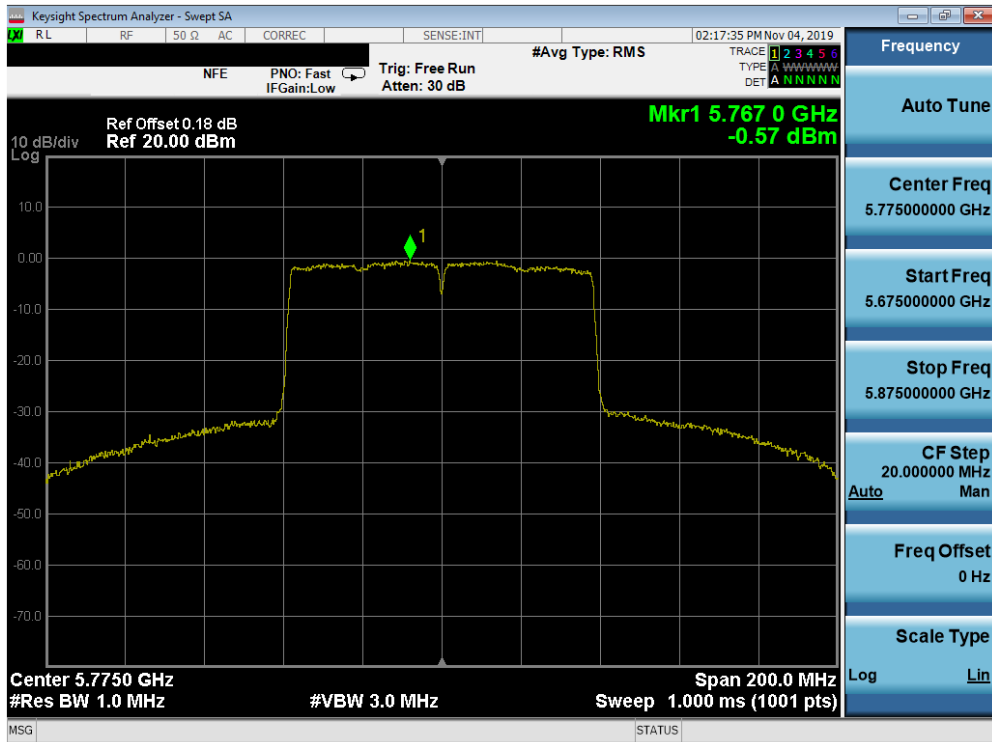


Plot 7-261. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ac (UNII Band 3) – Ch. 151)

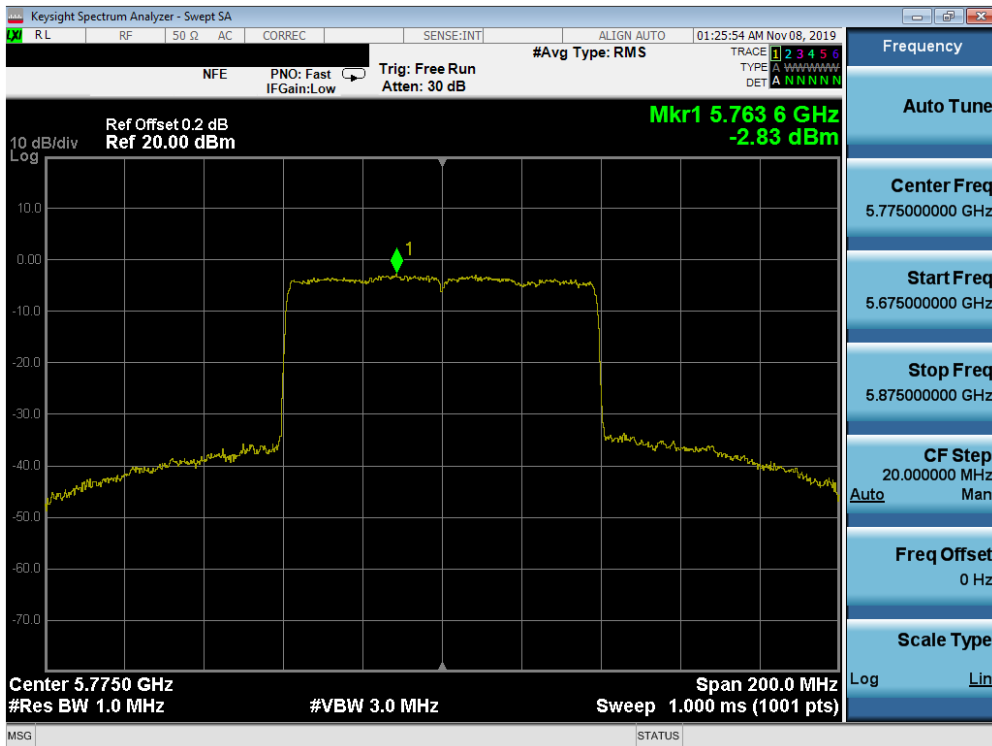


Plot 7-262. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ac (UNII Band 3) – Ch. 159)

| | | | | |
|---|--|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSMG981U | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1910220165-06.A3L | Test Dates: 10/22 - 1/04/2020 | EUT Type: Portable Handset | | Page 163 of 240 |



Plot 7-263. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ac (UNII Band 3) – Ch. 155)



Plot 7-264. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax (UNII Band 3) – Ch. 155)

| | | | | |
|---|----------------------------------|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSMG981U | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1910220165-06.A3L | Test Dates: 10/22 - 1/04/2020 | EUT Type: Portable Handset | | Page 164 of 240 |

Summed MIMO Power Spectral Density Measurements

| | Frequency [MHz] | Channel No. | 802.11 Mode | Data Rate [Mbps] | Antenna-1 Power Density [dBm] | Antenna-2 Power Density [dBm] | Summed MIMO Power Density [dBm] | Max Power Density [dBm/MHz] | Margin [dB] |
|---------|-----------------|-------------|------------------|------------------|-------------------------------|-------------------------------|---------------------------------|-----------------------------|-------------|
| Band 1 | 5180 | 36 | a | 6 | 7.89 | 6.75 | 10.37 | 11.0 | -0.63 |
| | 5200 | 40 | a | 6 | 6.55 | 5.94 | 9.26 | 11.0 | -1.74 |
| | 5240 | 48 | a | 6 | 7.28 | 5.96 | 9.68 | 11.0 | -1.32 |
| | 5180 | 36 | n (20MHz) | 6.5/7.2 (MCS0) | 7.53 | 6.66 | 10.13 | 11.0 | -0.87 |
| | 5200 | 40 | n (20MHz) | 6.5/7.2 (MCS0) | 6.53 | 5.63 | 9.11 | 11.0 | -1.89 |
| | 5240 | 48 | n (20MHz) | 6.5/7.2 (MCS0) | 6.89 | 5.82 | 9.40 | 11.0 | -1.60 |
| | 5180 | 36 | ax (20MHz) | 6.5/7.2 (MCS0) | 3.83 | 4.89 | 7.40 | 11.0 | -3.60 |
| | 5200 | 40 | ax (20MHz) | 6.5/7.2 (MCS0) | 3.93 | 4.79 | 7.39 | 11.0 | -3.61 |
| | 5240 | 48 | ax (20MHz) | 6.5/7.2 (MCS0) | 4.60 | 4.76 | 7.69 | 11.0 | -3.31 |
| | 5190 | 38 | n (40MHz) | 13.5/15 (MCS0) | 3.68 | 3.72 | 6.71 | 11.0 | -4.29 |
| | 5230 | 46 | n (40MHz) | 13.5/15 (MCS0) | 3.01 | 3.13 | 6.08 | 11.0 | -4.92 |
| | 5190 | 38 | ax (40MHz) | 13.5/15 (MCS0) | 1.87 | 1.75 | 4.82 | 11.0 | -6.18 |
| | 5230 | 46 | ax (40MHz) | 13.5/15 (MCS0) | 2.09 | 1.79 | 4.95 | 11.0 | -6.05 |
| | 5210 | 42 | ac (80MHz) | 29.3/32.5 (MCS0) | -0.27 | -0.08 | 2.84 | 11.0 | -8.16 |
| 5210 | 42 | ax (80MHz) | 29.3/32.5 (MCS0) | -1.82 | -2.33 | 0.94 | 11.0 | -10.06 | |
| Band 2A | 5260 | 52 | a | 6 | 7.09 | 5.84 | 9.52 | 11.0 | -1.48 |
| | 5280 | 56 | a | 6 | 6.89 | 5.89 | 9.43 | 11.0 | -1.57 |
| | 5320 | 64 | a | 6 | 7.96 | 7.02 | 10.53 | 11.0 | -0.47 |
| | 5260 | 52 | n (20MHz) | 6.5/7.2 (MCS0) | 6.45 | 5.67 | 9.09 | 11.0 | -1.91 |
| | 5280 | 56 | n (20MHz) | 6.5/7.2 (MCS0) | 6.34 | 5.59 | 8.99 | 11.0 | -2.01 |
| | 5320 | 64 | n (20MHz) | 6.5/7.2 (MCS0) | 7.62 | 6.97 | 10.32 | 11.0 | -0.68 |
| | 5260 | 52 | ax (20MHz) | 6.5/7.2 (MCS0) | 4.61 | 4.63 | 7.63 | 11.0 | -3.37 |
| | 5280 | 56 | ax (20MHz) | 6.5/7.2 (MCS0) | 4.55 | 4.53 | 7.55 | 11.0 | -3.45 |
| | 5320 | 64 | ax (20MHz) | 6.5/7.2 (MCS0) | 4.57 | 4.71 | 7.65 | 11.0 | -3.35 |
| | 5270 | 54 | n (40MHz) | 13.5/15 (MCS0) | 2.60 | 2.80 | 5.71 | 11.0 | -5.29 |
| | 5310 | 62 | n (40MHz) | 13.5/15 (MCS0) | 3.56 | 4.00 | 6.80 | 11.0 | -4.20 |
| | 5270 | 54 | ax (40MHz) | 13.5/15 (MCS0) | 2.07 | 1.60 | 4.85 | 11.0 | -6.15 |
| | 5310 | 62 | ax (40MHz) | 13.5/15 (MCS0) | 1.67 | 1.80 | 4.75 | 11.0 | -6.25 |
| | 5290 | 58 | ac (80MHz) | 29.3/32.5 (MCS0) | -0.55 | -0.75 | 2.36 | 11.0 | -8.64 |
| 5290 | 58 | ax (80MHz) | 29.3/32.5 (MCS0) | -2.00 | -2.34 | 0.84 | 11.0 | -10.16 | |
| Band 2C | 5500 | 100 | a | 6 | 7.74 | 7.01 | 10.40 | 11.0 | -0.60 |
| | 5580 | 116 | a | 6 | 6.80 | 5.91 | 9.39 | 11.0 | -1.61 |
| | 5720 | 144 | a | 6 | 7.17 | 6.22 | 9.73 | 11.0 | -1.27 |
| | 5500 | 100 | n (20MHz) | 6.5/7.2 (MCS0) | 7.73 | 6.66 | 10.24 | 11.0 | -0.76 |
| | 5580 | 116 | n (20MHz) | 6.5/7.2 (MCS0) | 6.40 | 5.74 | 9.09 | 11.0 | -1.91 |
| | 5720 | 144 | n (20MHz) | 6.5/7.2 (MCS0) | 6.85 | 5.93 | 9.42 | 11.0 | -1.58 |
| | 5500 | 100 | ax (20MHz) | 6.5/7.2 (MCS0) | 4.66 | 4.55 | 7.62 | 11.0 | -3.38 |
| | 5580 | 116 | ax (20MHz) | 6.5/7.2 (MCS0) | 4.52 | 4.67 | 7.61 | 11.0 | -3.39 |
| | 5720 | 144 | ax (20MHz) | 6.5/7.2 (MCS0) | 4.93 | 4.87 | 7.91 | 11.0 | -3.09 |
| | 5510 | 102 | n (40MHz) | 13.5/15 (MCS0) | 3.88 | 3.77 | 6.84 | 11.0 | -4.16 |
| | 5550 | 110 | n (40MHz) | 13.5/15 (MCS0) | 2.36 | 2.58 | 5.48 | 11.0 | -5.52 |
| | 5710 | 142 | n (40MHz) | 13.5/15 (MCS0) | 2.65 | 3.07 | 5.88 | 11.0 | -5.12 |
| | 5510 | 102 | ax (40MHz) | 13.5/15 (MCS0) | 2.95 | 1.76 | 5.41 | 11.0 | -5.59 |
| | 5550 | 110 | ax (40MHz) | 13.5/15 (MCS0) | 1.29 | 1.76 | 4.54 | 11.0 | -6.46 |
| | 5710 | 142 | ax (40MHz) | 13.5/15 (MCS0) | 1.82 | 1.87 | 4.86 | 11.0 | -6.14 |
| | 5530 | 106 | ac (80MHz) | 29.3/32.5 (MCS0) | -0.38 | 0.25 | 2.96 | 11.0 | -8.04 |
| | 5610 | 122 | ac (80MHz) | 29.3/32.5 (MCS0) | -2.01 | -1.39 | 1.32 | 11.0 | -9.68 |
| | 5690 | 138 | ac (80MHz) | 29.3/32.5 (MCS0) | -4.22 | -3.81 | -1.00 | 11.0 | -12.00 |
| | 5530 | 106 | ax (80MHz) | 29.3/32.5 (MCS0) | -1.73 | -1.43 | 1.43 | 11.0 | -9.57 |
| | 5610 | 122 | ax (80MHz) | 29.3/32.5 (MCS0) | -2.25 | -1.34 | 1.24 | 11.0 | -9.76 |
| 5690 | 138 | ax (80MHz) | 29.3/32.5 (MCS0) | -4.98 | -4.00 | -1.45 | 11.0 | -12.45 | |

Table 7-27. Bands 1, 2A, 2C MIMO Conducted Power Spectral Density Measurements

| | | | | |
|---|---|---------------------------------------|---|---------------------------------|
| FCC ID: A3LSMG981U |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M1910220165-06.A3L | Test Dates: 10/22 - 1/04/2020 | EUT Type: Portable Handset | Page 165 of 240 | |

| | Frequency [MHz] | Channel No. | 802.11 Mode | Data Rate [Mbps] | Antenna-1 Power Density [dBm] | Antenna-2 Power Density [dBm] | Summed MIMO Power Density [dBm] | Directional Antenna Gain [dBi] | e.i.r.p. Power Density [dBm/MHz] | ISED Max e.i.r.p. Power Density [dBm/MHz] | Margin [dB] |
|--------|-----------------|-------------|------------------|------------------|-------------------------------|-------------------------------|---------------------------------|--------------------------------|----------------------------------|---|-------------|
| Band 1 | 5180 | 36 | a | 6.5/7.2 (MCS0) | 7.89 | 6.75 | 10.37 | -3.59 | 6.78 | 10.0 | -3.22 |
| | 5200 | 40 | a | 6.5/7.2 (MCS0) | 6.55 | 5.94 | 9.26 | -3.59 | 5.68 | 10.0 | -4.32 |
| | 5240 | 48 | a | 6.5/7.2 (MCS0) | 7.28 | 5.96 | 9.68 | -3.59 | 6.09 | 10.0 | -3.91 |
| | 5180 | 36 | n (20MHz) | 6.5/7.2 (MCS0) | 7.53 | 6.66 | 10.13 | -3.59 | 6.54 | 10.0 | -3.46 |
| | 5200 | 40 | n (20MHz) | 6.5/7.2 (MCS0) | 6.53 | 5.63 | 9.11 | -3.59 | 5.53 | 10.0 | -4.47 |
| | 5240 | 48 | n (20MHz) | 6.5/7.2 (MCS0) | 6.89 | 5.82 | 9.40 | -3.59 | 5.81 | 10.0 | -4.19 |
| | 5180 | 36 | ax (20MHz) | 6.5/7.2 (MCS0) | -1.78 | -1.59 | 1.33 | -3.59 | -2.26 | 10.0 | -12.26 |
| | 5200 | 40 | ax (20MHz) | 6.5/7.2 (MCS0) | -0.18 | 2.01 | 4.06 | -3.59 | 0.47 | 10.0 | -9.53 |
| | 5240 | 48 | ax (20MHz) | 6.5/7.2 (MCS0) | 0.26 | 2.35 | 4.44 | -3.59 | 0.85 | 10.0 | -9.15 |
| | 5190 | 38 | n (40MHz) | 13.5/15 (MCS0) | 3.68 | 3.72 | 6.71 | -3.59 | 3.12 | 10.0 | -6.88 |
| | 5230 | 46 | n (40MHz) | 13.5/15 (MCS0) | 3.01 | 3.13 | 6.08 | -3.59 | 2.49 | 10.0 | -7.51 |
| | 5190 | 38 | ax (40MHz) | 13.5/15 (MCS0) | -7.47 | -5.63 | -3.44 | -3.59 | -7.03 | 10.0 | -17.03 |
| | 5230 | 46 | ax (40MHz) | 13.5/15 (MCS0) | -1.96 | -5.21 | -0.28 | -3.59 | -3.87 | 10.0 | -13.87 |
| | 5210 | 42 | ac (80MHz) | 29.3/32.5 (MCS0) | -0.27 | -0.08 | 2.84 | -3.59 | -0.75 | 10.0 | -10.75 |
| 5210 | 42 | ax (80MHz) | 29.3/32.5 (MCS0) | -8.14 | -7.84 | -4.98 | -3.59 | -8.57 | 10.0 | -18.57 | |

Table 7-28. Band 1 MIMO e.i.r.p. Conducted Power Spectral Density Measurements (ISED)

| | Frequency [MHz] | Channel No. | 802.11 Mode | Data Rate [Mbps] | Antenn-1 Power Density [dBm] | Antenn-2 Power Density [dBm] | Summed MIMO Power Density [dBm] | Max Permissible Power Density [dBm/500kHz] | Margin [dB] |
|--------|-----------------|-------------|-------------|------------------|------------------------------|------------------------------|---------------------------------|--|-------------|
| Band 3 | 5745 | 149 | a | 6 | 4.31 | 3.45 | 6.91 | 30.0 | -23.09 |
| | 5785 | 157 | a | 6 | 4.18 | 3.45 | 6.84 | 30.0 | -23.16 |
| | 5825 | 165 | a | 6 | 4.40 | 3.26 | 6.88 | 30.0 | -23.12 |
| | 5745 | 149 | n (20MHz) | 6.5/7.2 (MCS0) | 3.91 | 3.24 | 6.60 | 30.0 | -23.40 |
| | 5785 | 157 | n (20MHz) | 6.5/7.2 (MCS0) | 3.70 | 3.13 | 6.43 | 30.0 | -23.57 |
| | 5825 | 165 | n (20MHz) | 6.5/7.2 (MCS0) | 3.72 | 3.10 | 6.43 | 30.0 | -23.57 |
| | 5745 | 149 | ax (20MHz) | 6.5/7.2 (MCS0) | 2.55 | 2.09 | 5.34 | 30.0 | -24.66 |
| | 5785 | 157 | ax (20MHz) | 6.5/7.2 (MCS0) | 2.55 | 2.20 | 5.39 | 30.0 | -24.61 |
| | 5825 | 165 | ax (20MHz) | 6.5/7.2 (MCS0) | -0.65 | 2.09 | 3.94 | 30.0 | -26.06 |
| | 5755 | 151 | n (40MHz) | 13.5/15 (MCS0) | 0.04 | 0.37 | 3.22 | 30.0 | -26.78 |
| | 5795 | 159 | n (40MHz) | 13.5/15 (MCS0) | -0.40 | 0.43 | 3.05 | 30.0 | -26.95 |
| | 5755 | 151 | ax (40MHz) | 13.5/15 (MCS0) | -0.59 | -0.86 | 2.29 | 30.0 | -27.71 |
| | 5795 | 159 | ax (40MHz) | 13.5/15 (MCS0) | 0.34 | -0.88 | 2.78 | 30.0 | -27.22 |
| | 5775 | 155 | ac (80MHz) | 29.3/32.5 (MCS0) | -1.43 | -0.57 | 2.03 | 30.0 | -27.97 |
| | 5775 | 155 | ax (80MHz) | 29.3/32.5 (MCS0) | -2.24 | -2.83 | 0.49 | 30.0 | -29.51 |

Table 7-29. Band 3 MIMO Conducted Power Spectral Density Measurements

| | | | | | |
|---|---|-------------------------------|---------------------------------------|---|---------------------------------|
| FCC ID: A3LSMG981U |  | | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M1910220165-06.A3L | Test Dates: 10/22 - 1/04/2020 | EUT Type: Portable Handset | Page 166 of 240 | | |

Note:

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

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.

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

Sample Directional Gain Calculation:

Assuming the antenna gain is -8.61 dBi for Antenna-1 and -7.68 dBi for Antenna-2.

$$\begin{aligned} \text{Directional gain} &= 10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{ANT}] \text{ dBi} \\ &= 10 \log[(10^{-8.61/20} + 10^{-7.68/20} / 2] \text{ dBi} \\ &= (-5.12) \text{ dBi} \end{aligned}$$

Sample MIMO Calculation:

At 5180MHz in 802.11n (20MHz BW) mode, the average conducted power spectral density was measured to be 7.53 dBm for Antenna-1 and 6.66 dBm for Antenna-2.

Antenna 1 + Antenna 2 = MIMO

$$(7.53 \text{ dBm} + 6.66 \text{ dBm}) = (5.66 \text{ mW} + 4.63 \text{ mW}) = 10.29 \text{ mW} = 10.13 \text{ dBm}$$

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

At 5180MHz in 802.11n (20MHz BW) mode, the average MIMO power density was calculated to be 10.13 dBm with directional gain of -6.50 dBi.

$$\text{e.i.r.p. Power Spectral Density(dBm)} = \text{Power Spectral Density (dBm)} + \text{Ant gain (dBi)}$$

$$10.13 \text{ dBm} + -6.50 \text{ dBi} = 3.63 \text{ dBm}$$

| | | | | | |
|--|---|--------------------------------------|---|---|--|
| FCC ID: A3LSMG981U |  | | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M1910220165-06.A3L | Test Dates: 10/22 - 1/04/2020 | EUT Type: Portable Handset | | | Page 167 of 240 |

7.6 Radiated Spurious Emission Measurements – Above 1GHz

§15.407(b) §15.205 §15.209; RSS-Gen [8.9]

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2013 and KDB 789033 D02 v02r01, and at the appropriate frequencies. All channels, modes (e.g. 802.11a, 802.11n (20MHz BW), 802.11n (40MHz BW), and 802.11ac (80MHz)), and modulations/data rates were investigated among all UNII bands. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

For transmitters operating in the 5.15-5.25 GHz and 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.

For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of -27 dBm/MHz.

For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 6 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-30 per Section 15.209 and RSS-Gen (8.9).

| Frequency | Field Strength [$\mu\text{V/m}$] | Measured Distance [Meters] |
|-----------------|---------------------------------------|-------------------------------|
| Above 960.0 MHz | 500 | 3 |

Table 7-30. Radiated Limits

Test Procedures Used

ANSI C63.10-2013 – Sections 12.7.7.2, 12.7.6, 12.7.5
KDB 789033 D02 v02r01 – Section G

Test Settings

Average Measurements above 1GHz (Method AD)

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = power average (RMS)
5. Number of measurement points = 1001 (Number of points must be $\geq 2 \times \text{span/RBW}$)
6. Averaging type = power (RMS)
7. Sweep time = auto couple
8. Trace was averaged over 100 sweeps

| | | | | |
|---|---|---------------------------------------|---|---------------------------------|
| FCC ID: A3LSMG981U |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
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Peak Measurements above 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Peak Measurements below 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = 120kHz
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

Test Setup

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

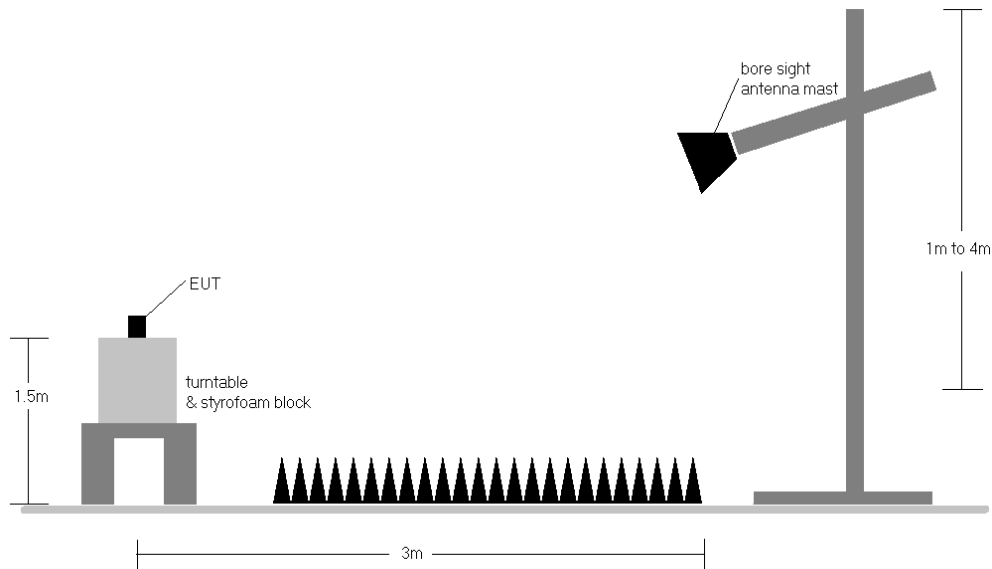


Figure 7-5. Test Instrument & Measurement Setup

| | | | | |
|--|---|--------------------------------------|---|--|
| FCC ID: A3LSMG981U |  MEASUREMENT REPORT (CERTIFICATION) | |  | Approved by: Quality Manager |
| Test Report S/N: 1M1910220165-06.A3L | Test Dates: 10/22 - 1/04/2020 | EUT Type: Portable Handset | Page 169 of 240 | |

Test Notes

1. All emissions that lie in the restricted bands (denoted by a * next to the frequency) specified in §15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-30.
2. All spurious emissions lying in restricted bands specified in §15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-30. All spurious emissions that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dBμV/m.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. This unit was tested with its standard battery.
5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken using linearly polarized horn antennas. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
6. Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
7. Radiated spurious emissions were investigated while operating in MIMO mode, however, it was determined that single antenna operation produced the worst case emissions. Since the emissions produced from MIMO operation were found to be more than 20dB below the limit, the MIMO emissions are not reported.
8. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. Any emissions found to be within 20dB of the limit are fully investigated and the results are shown in this section.
9. The "-" shown in the following RSE tables are used to denote a noise floor measurement.

Sample Calculations

Determining Spurious Emissions Levels

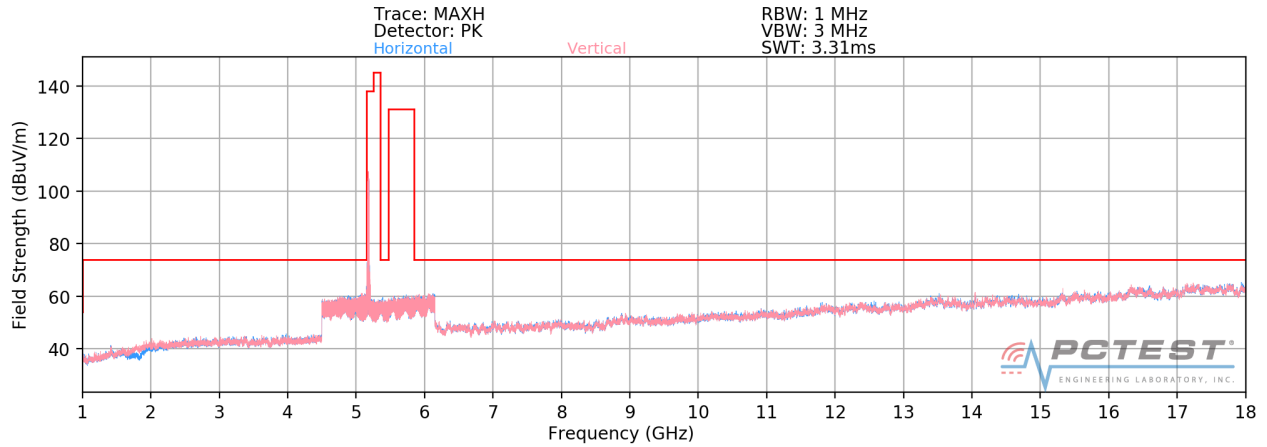
- Field Strength Level [dBμV/m] = Analyzer Level [dBm] + 107 + AFCL [dB/m]
- AFCL [dB/m] = Antenna Factor [dB/m] + Cable Loss [dB]
- Margin [dB] = Field Strength Level [dBμV/m] – Limit [dBμV/m]

Radiated Band Edge Measurement Offset

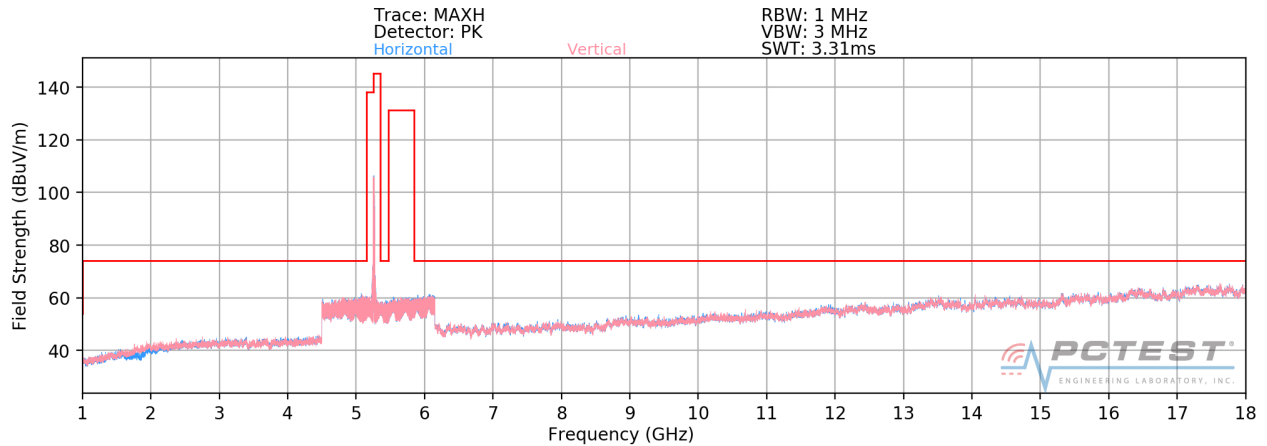
- The amplitude offset shown in the radiated restricted band edge plots was calculated using the formula:
Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

| | | | |
|---|---|-------------------------------|---------------------------------|
| FCC ID: A3LSMG981U |  MEASUREMENT REPORT (CERTIFICATION)  | | Approved by: Quality Manager |
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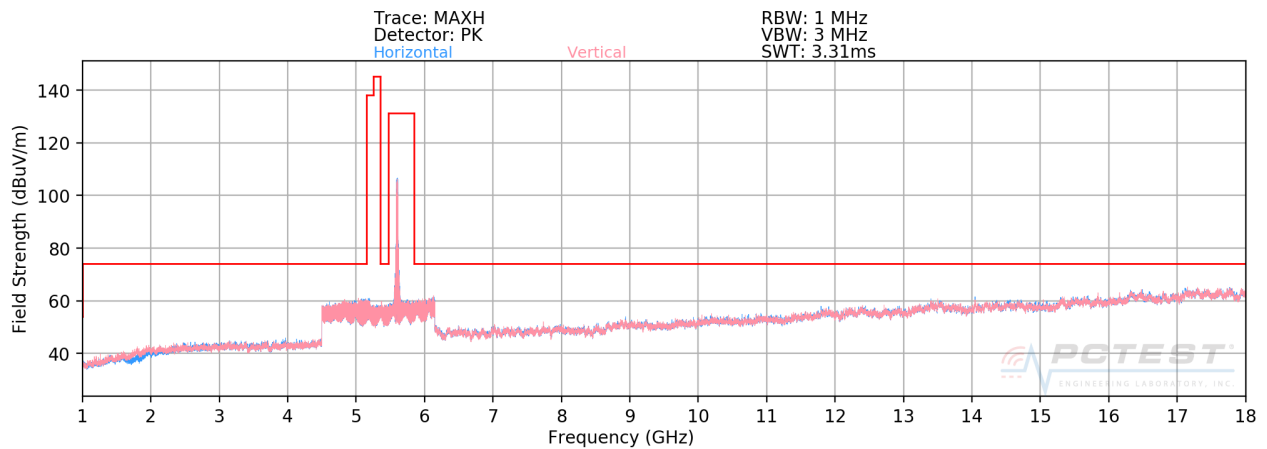
7.5.1 SISO Antenna-1 Radiated Spurious Emission Measurements



Plot 7-265. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11a – U1 Ch. 40)

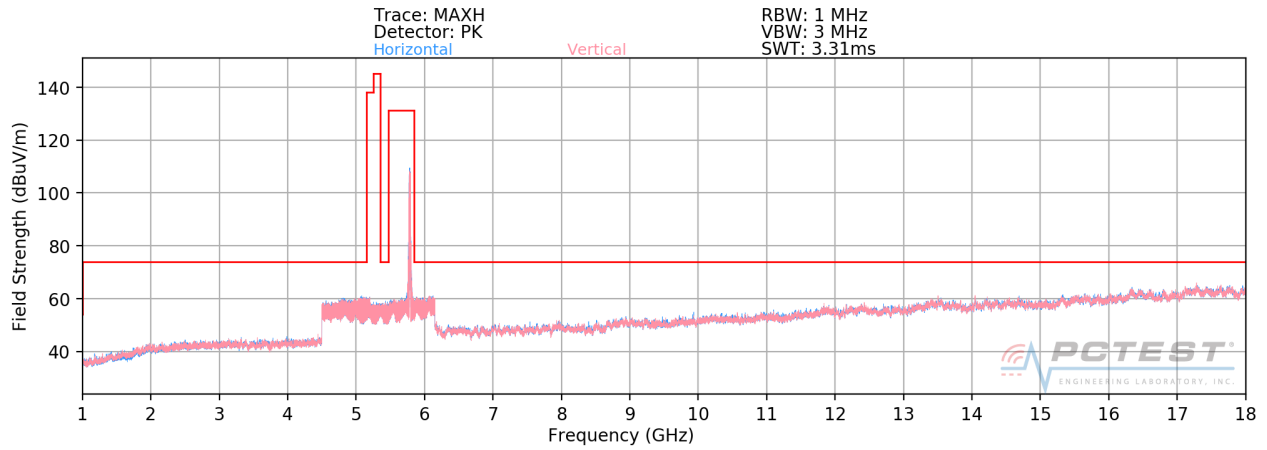


Plot 7-266. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11a – U2A Ch. 56)



Plot 7-267. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11a – U2C Ch. 120)

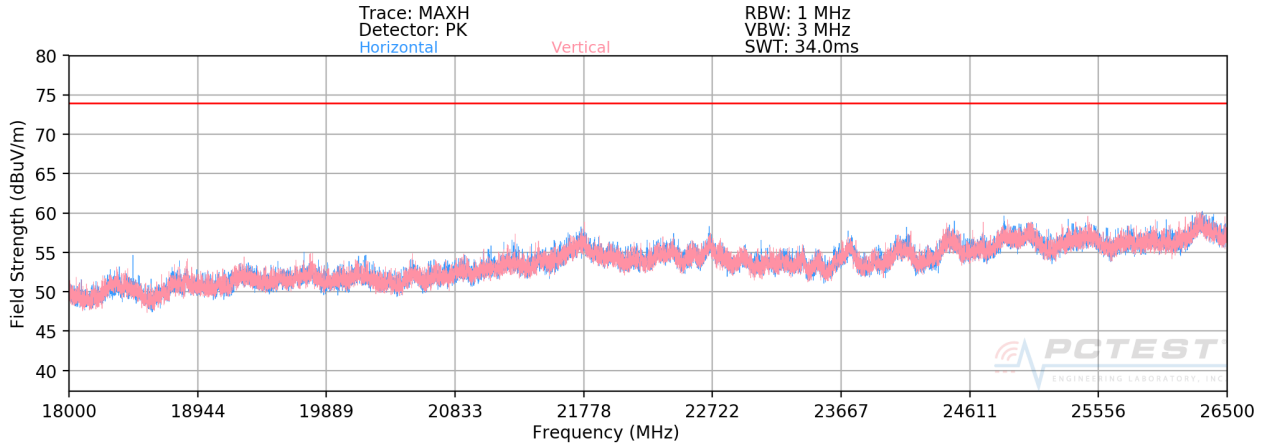
| | | | | | |
|--|---|--------------------------------------|---|-----------------|--|
| FCC ID: A3LSMG981U | | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1910220165-06.A3L | Test Dates: 10/22 - 1/04/2020 | EUT Type: Portable Handset | | Page 171 of 240 | |



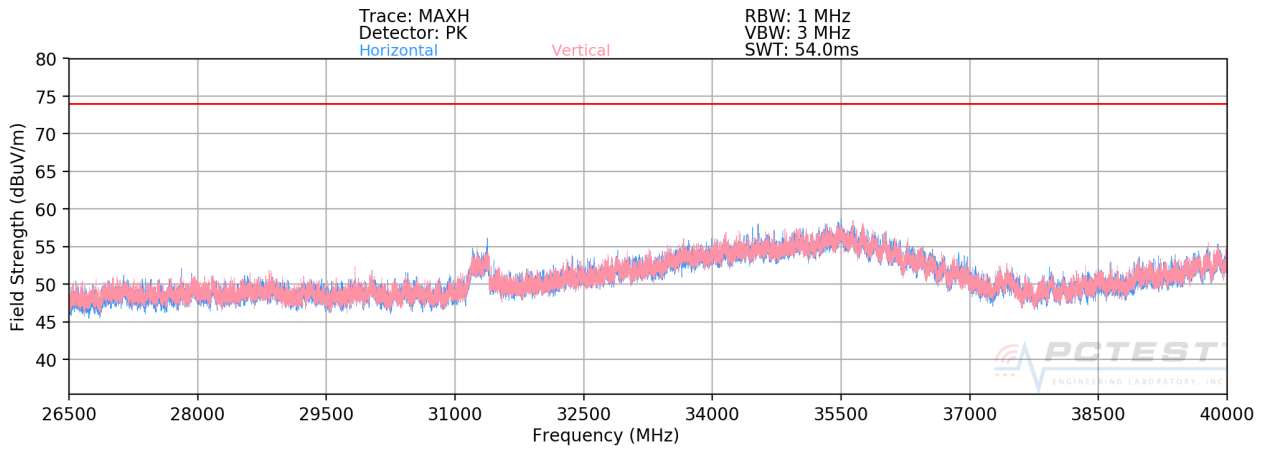
Plot 7-268. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11a – U3 Ch. 157)

| | | | | | |
|--|---|--------------------------------------|---|-----------------|--|
| FCC ID: A3LSMG981U | | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1910220165-06.A3L | Test Dates: 10/22 - 1/04/2020 | EUT Type: Portable Handset | | Page 172 of 240 | |

SISO Antenna-1 Radiated Spurious Emissions Measurements (Above 18GHz)



Plot 7-269. Radiated Spurious Plot 18GHz - 26.5GHz SISO ANT1 (802.11a)



Plot 7-270. Radiated Spurious Plot 26.5GHz - 40GHz SISO ANT1 (802.11a)

| | | | | | |
|--|---|--------------------------------------|---|-----------------|--|
| FCC ID: A3LSMG981U | | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1910220165-06.A3L | Test Dates: 10/22 - 1/04/2020 | EUT Type: Portable Handset | | Page 173 of 240 | |

SISO Antenna-1 Radiated Spurious Emission Measurements

§15.407(b) §15.205 & §15.209; RSS-Gen [8.9]

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

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| 10360.00 | Peak | H | 122 | 48 | -67.33 | 11.41 | 0.00 | 51.08 | 68.20 | -17.12 |
| * 15540.00 | Average | H | 123 | 270 | -78.15 | 13.23 | 0.00 | 42.08 | 53.98 | -11.90 |
| * 15540.00 | Peak | H | 123 | 270 | -65.93 | 13.23 | 0.00 | 54.30 | 73.98 | -19.68 |
| * 20720.00 | Average | H | - | - | -78.35 | 17.51 | -9.54 | 36.62 | 53.98 | -17.36 |
| * 20720.00 | Peak | H | - | - | -67.16 | 17.51 | -9.54 | 47.81 | 73.98 | -26.17 |
| 25900.00 | Peak | H | - | - | -65.02 | 19.88 | -9.54 | 52.32 | 68.20 | -15.88 |

Table 7-31. Radiated Measurements SISO ANT1

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5200MHz
 Channel: 40

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| 10400.00 | Peak | H | 115 | 53 | -66.62 | 11.17 | 0.00 | 51.55 | 68.20 | -16.65 |
| * 15600.00 | Average | H | 111 | 270 | -77.67 | 12.81 | 0.00 | 42.14 | 53.98 | -11.84 |
| * 15600.00 | Peak | H | 111 | 270 | -64.99 | 12.81 | 0.00 | 54.82 | 73.98 | -19.16 |
| * 20800.00 | Average | H | - | - | -78.26 | 17.87 | -9.54 | 37.06 | 53.98 | -16.92 |
| * 20800.00 | Peak | H | - | - | -66.90 | 17.87 | -9.54 | 48.42 | 73.98 | -25.56 |
| 26000.00 | Peak | H | - | - | -64.34 | 20.15 | -9.54 | 53.26 | 68.20 | -14.94 |

Table 7-32. Radiated Measurements SISO ANT1

| | | | | | |
|---|---|---------------------------------------|--|---|---------------------------------|
| FCC ID: A3LSMG981U |  | MEASUREMENT REPORT (CERTIFICATION) | |  | Approved by: Quality Manager |
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Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5240MHz
 Channel: 48

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| 10480.00 | Peak | H | 293 | 54 | -66.16 | 11.37 | 0.00 | 52.21 | 68.20 | -15.99 |
| * 15720.00 | Average | H | 112 | 271 | -78.24 | 15.18 | 0.00 | 43.94 | 53.98 | -10.04 |
| * 15720.00 | Peak | H | 112 | 271 | -66.21 | 15.18 | 0.00 | 55.97 | 73.98 | -18.01 |
| * 20960.00 | Average | H | - | - | -78.23 | 18.06 | -9.54 | 37.28 | 53.98 | -16.69 |
| * 20960.00 | Peak | H | - | - | -67.04 | 18.06 | -9.54 | 48.47 | 73.98 | -25.50 |
| 26200.00 | Peak | H | - | - | -66.05 | 20.23 | -9.54 | 51.64 | 68.20 | -16.56 |

Table 7-33. Radiated Measurements SISO ANT1

| | | | | | |
|--|---|--------------------------------------|---|---|--|
| FCC ID: A3LSMG981U |  | | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M1910220165-06.A3L | Test Dates: 10/22 - 1/04/2020 | EUT Type: Portable Handset | | | Page 175 of 240 |

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5260MHz
 Channel: 52

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| 10520.00 | Peak | H | 286 | 41 | -65.76 | 11.86 | 0.00 | 53.10 | 68.20 | -15.10 |
| * 15780.00 | Average | H | 115 | 270 | -78.82 | 13.75 | 0.00 | 41.93 | 53.98 | -12.05 |
| * 15780.00 | Peak | H | 115 | 270 | -66.46 | 13.75 | 0.00 | 54.29 | 73.98 | -19.69 |
| * 21040.00 | Average | H | - | - | -77.85 | 18.36 | -9.54 | 37.96 | 53.98 | -16.02 |
| * 21040.00 | Peak | H | - | - | -66.86 | 18.36 | -9.54 | 48.95 | 73.98 | -25.03 |
| 26300.00 | Peak | H | - | - | -63.45 | 20.96 | -9.54 | 54.96 | 68.20 | -13.24 |

Table 7-34. Radiated Measurements SISO ANT1

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5280MHz
 Channel: 56

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| 10560.00 | Peak | H | 282 | 51 | -66.30 | 12.47 | 0.00 | 53.17 | 68.20 | -15.03 |
| * 15840.00 | Average | H | 117 | 285 | -78.31 | 15.16 | 0.00 | 43.85 | 53.98 | -10.13 |
| * 15840.00 | Peak | H | 117 | 285 | -65.95 | 15.16 | 0.00 | 56.21 | 73.98 | -17.77 |
| * 21120.00 | Average | H | - | - | -77.70 | 18.17 | -9.54 | 37.92 | 53.98 | -16.05 |
| * 21120.00 | Peak | H | - | - | -66.07 | 18.17 | -9.54 | 49.55 | 73.98 | -24.42 |
| 26400.00 | Peak | H | - | - | -62.43 | 20.65 | -9.54 | 55.68 | 68.20 | -12.52 |

Table 7-35. Radiated Measurements SISO ANT1

| | | | | | |
|--|---|--------------------------------------|---|---|--|
| FCC ID: A3LSMG981U |  | | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M1910220165-06.A3L | Test Dates: 10/22 - 1/04/2020 | EUT Type: Portable Handset | | Page 176 of 240 | |

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5320MHz
 Channel: 64

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| * 10640.00 | Average | H | 271 | 31 | -77.70 | 13.08 | 0.00 | 42.38 | 53.98 | -11.60 |
| * 10640.00 | Peak | H | 271 | 31 | -66.23 | 13.08 | 0.00 | 53.85 | 73.98 | -20.13 |
| * 15960.00 | Average | H | 145 | 77 | -79.22 | 13.43 | 0.00 | 41.21 | 53.98 | -12.77 |
| * 15960.00 | Peak | H | 145 | 77 | -68.41 | 13.43 | 0.00 | 52.02 | 73.98 | -21.96 |
| * 21280.00 | Average | H | - | - | -77.67 | 18.57 | -9.54 | 38.36 | 53.98 | -15.62 |
| * 21280.00 | Peak | H | - | - | -67.16 | 18.57 | -9.54 | 48.87 | 73.98 | -25.11 |
| 26600.00 | Peak | H | - | - | -47.30 | 5.16 | -9.54 | 55.32 | 68.20 | -12.88 |

Table 7-36. Radiated Measurements SISO ANT1

| | | | |
|---|---|-------------------------------|---------------------------------|
| FCC ID: A3LSMG981U |  MEASUREMENT REPORT (CERTIFICATION)  | | Approved by: Quality Manager |
| Test Report S/N: 1M1910220165-06.A3L | Test Dates: 10/22 - 1/04/2020 | EUT Type: Portable Handset | Page 177 of 240 |

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| * 11000.00 | Average | H | -79 | - | -79.25 | 12.53 | 0.00 | 40.28 | 53.98 | -13.70 |
| * 11000.00 | Peak | H | -79 | - | -67.77 | 12.53 | 0.00 | 51.76 | 73.98 | -22.22 |
| 16500.00 | Peak | H | 261 | 67 | -66.93 | 15.04 | 0.00 | 55.11 | 68.20 | -13.09 |
| 22000.00 | Peak | H | - | - | -64.78 | 19.12 | -9.54 | 51.79 | 68.20 | -16.41 |
| 27500.00 | Peak | H | - | - | -44.91 | 3.98 | -9.54 | 56.53 | 68.20 | -11.67 |

Table 7-37. Radiated Measurements SISO ANT1

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5600MHz
 Channel: 120

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| * 11160.00 | Average | H | 280 | 45 | -78.66 | 12.71 | 0.00 | 41.05 | 53.98 | -12.93 |
| * 11160.00 | Peak | H | 280 | 45 | -67.58 | 12.71 | 0.00 | 52.13 | 73.98 | -21.85 |
| 16740.00 | Peak | H | 223 | 40 | -65.65 | 15.84 | 0.00 | 57.19 | 68.20 | -11.01 |
| * 22320.00 | Average | H | - | - | -77.41 | 20.03 | -9.54 | 40.08 | 53.98 | -13.90 |
| * 22320.00 | Peak | H | - | - | -66.74 | 20.03 | -9.54 | 50.75 | 73.98 | -23.23 |
| 27900.00 | Peak | H | - | - | -44.52 | 4.70 | -9.54 | 57.64 | 68.20 | -10.56 |

Table 7-38. Radiated Measurements SISO ANT1

| | | | | | |
|--|---|--------------------------------------|---|---|--|
| FCC ID: A3LSMG981U |  | | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M1910220165-06.A3L | Test Dates: 10/22 - 1/04/2020 | EUT Type: Portable Handset | | Page 178 of 240 | |

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5720MHz
 Channel: 144

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| * 11440.00 | Average | H | 301 | 53 | -78.48 | 12.70 | 0.00 | 41.22 | 53.98 | -12.76 |
| * 11440.00 | Peak | H | 301 | 53 | -67.63 | 12.70 | 0.00 | 52.07 | 73.98 | -21.91 |
| 17160.00 | Peak | H | 234 | 37 | -67.24 | 17.71 | 0.00 | 57.47 | 68.20 | -10.73 |
| * 22880.00 | Average | H | - | - | -78.00 | 19.50 | -9.54 | 38.96 | 53.98 | -15.02 |
| * 22880.00 | Peak | H | - | - | -66.87 | 19.50 | -9.54 | 50.09 | 73.98 | -23.89 |
| 28600.00 | Peak | H | 100 | 59 | -47.26 | 5.14 | -9.54 | 55.34 | 68.20 | -12.86 |

Table 7-39. Radiated Measurements SISO ANT1

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5745MHz
 Channel: 149

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| * 11490.00 | Average | H | 305 | 55 | -78.86 | 13.38 | 0.00 | 41.52 | 53.98 | -12.46 |
| * 11490.00 | Peak | H | 305 | 55 | -67.08 | 13.38 | 0.00 | 53.30 | 73.98 | -20.68 |
| 17235.00 | Peak | H | 242 | 23 | -67.37 | 17.44 | 0.00 | 57.07 | 68.20 | -11.13 |
| * 22980.00 | Average | H | - | - | -77.87 | 19.89 | -9.54 | 39.47 | 53.98 | -14.51 |
| * 22980.00 | Peak | H | - | - | -67.39 | 19.89 | -9.54 | 49.95 | 73.98 | -24.03 |
| 28725.00 | Peak | H | 100 | 67 | -48.07 | 4.66 | -9.54 | 54.05 | 68.20 | -14.15 |

Table 7-40. Radiated Measurements SISO ANT1

| | | | | | |
|--|---|--------------------------------------|---|---|--|
| FCC ID: A3LSMG981U |  | | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M1910220165-06.A3L | Test Dates: 10/22 - 1/04/2020 | EUT Type: Portable Handset | | Page 179 of 240 | |

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

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| * 11570.00 | Average | H | - | - | -79.21 | 12.70 | 0.00 | 40.49 | 53.98 | -13.49 |
| * 11570.00 | Peak | H | - | - | -68.13 | 12.70 | 0.00 | 51.57 | 73.98 | -22.41 |
| 17355.00 | Peak | H | - | - | -68.71 | 19.46 | 0.00 | 57.75 | 68.20 | -10.45 |
| 23140.00 | Peak | H | - | - | -67.55 | 19.59 | -9.54 | 49.50 | 68.20 | -18.70 |
| 28925.00 | Peak | H | 100 | 52 | -47.66 | 4.43 | -9.54 | 54.23 | 68.20 | -13.97 |

Table 7-41. Radiated Measurements SISO ANT1

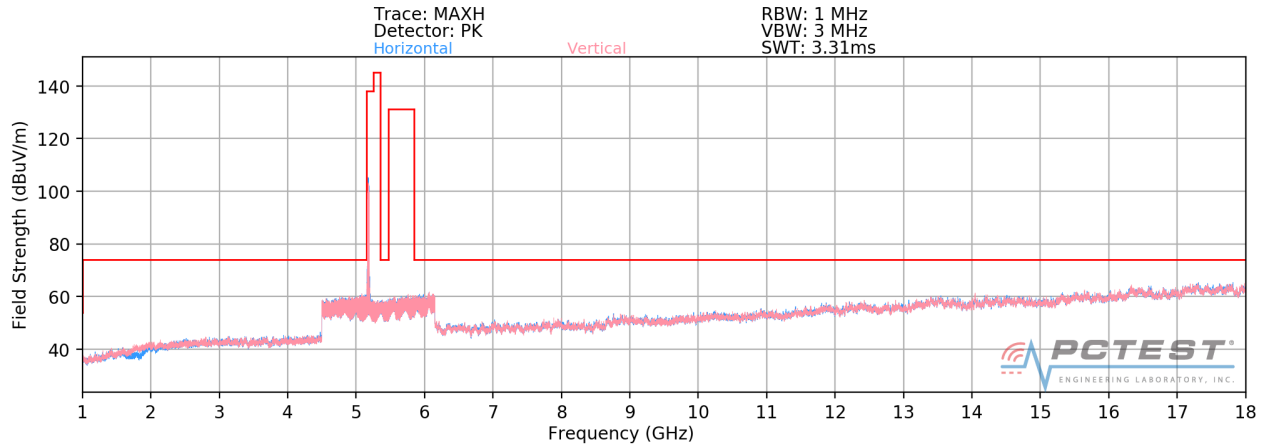
Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| * 11650.00 | Average | H | - | - | -79.45 | 13.24 | 0.00 | 40.79 | 53.98 | -13.19 |
| * 11650.00 | Peak | H | - | - | -68.82 | 13.24 | 0.00 | 51.42 | 73.98 | -22.56 |
| 17475.00 | Peak | H | - | - | -67.62 | 20.06 | 0.00 | 59.44 | 68.20 | -8.76 |
| 23300.00 | Peak | H | - | - | -67.52 | 18.93 | -9.54 | 48.87 | 68.20 | -19.33 |
| 29125.00 | Peak | H | 100 | 56 | -47.25 | 3.48 | -9.54 | 53.69 | 68.20 | -14.51 |

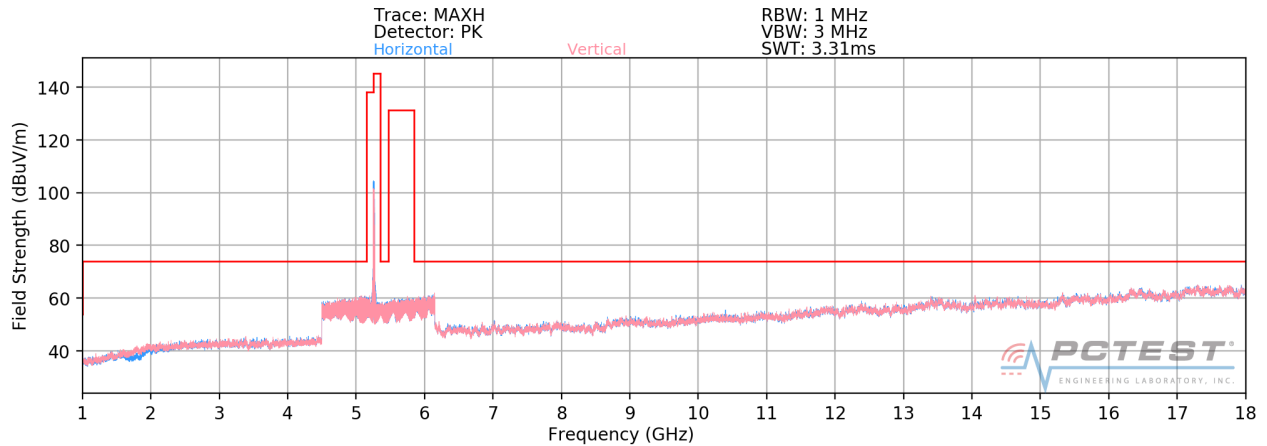
Table 7-42. Radiated Measurements SISO ANT1

| | | | | | |
|---|---|---------------------------------------|--|---|---------------------------------|
| FCC ID: A3LSMG981U |  | MEASUREMENT REPORT (CERTIFICATION) | |  | Approved by: Quality Manager |
| Test Report S/N: 1M1910220165-06.A3L | Test Dates: 10/22 - 1/04/2020 | EUT Type: Portable Handset | | Page 180 of 240 | |

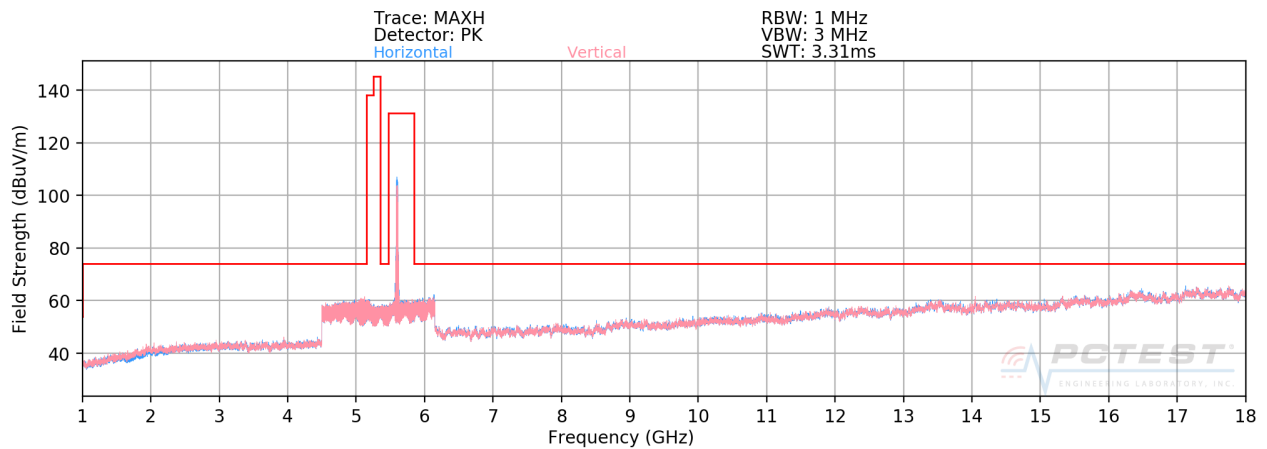
7.5.2 SISO Antenna-2 Radiated Spurious Emission Measurements



Plot 7-271. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11a – U1 Ch. 40)

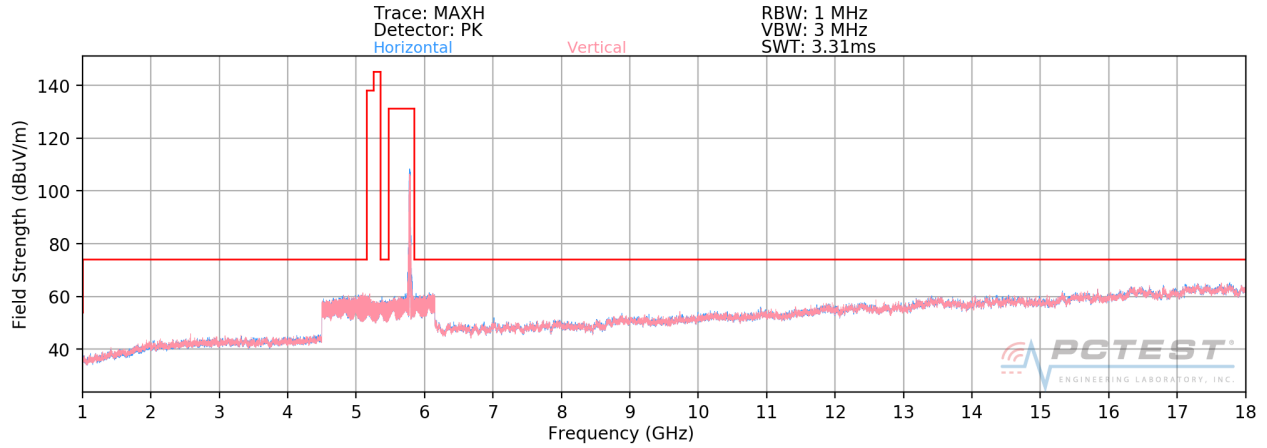


Plot 7-272. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11a – U2A Ch. 56)



Plot 7-273. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11a – U2C Ch. 120)

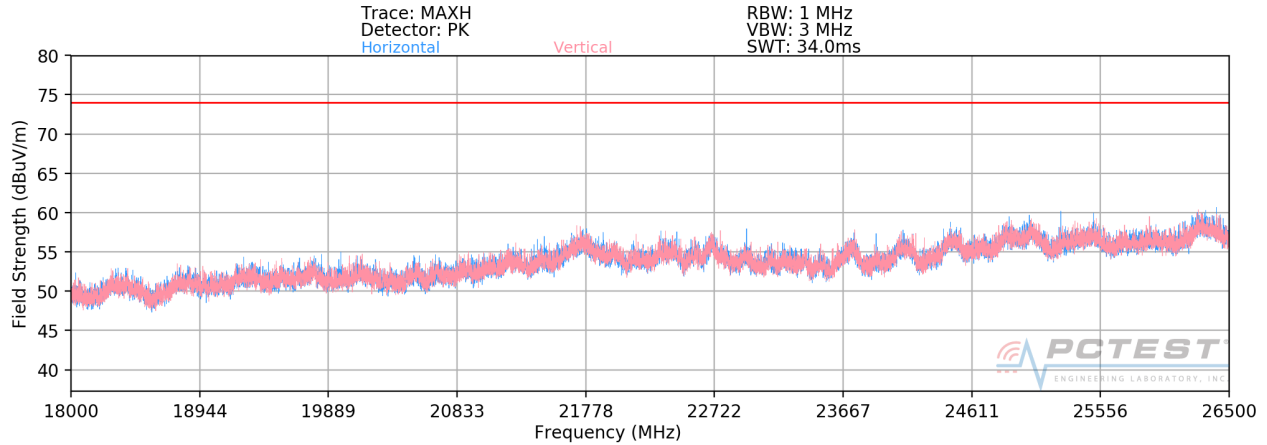
| | | | | | |
|--|---|--------------------------------------|---|-----------------|--|
| FCC ID: A3LSMG981U | | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1910220165-06.A3L | Test Dates: 10/22 - 1/04/2020 | EUT Type: Portable Handset | | Page 181 of 240 | |



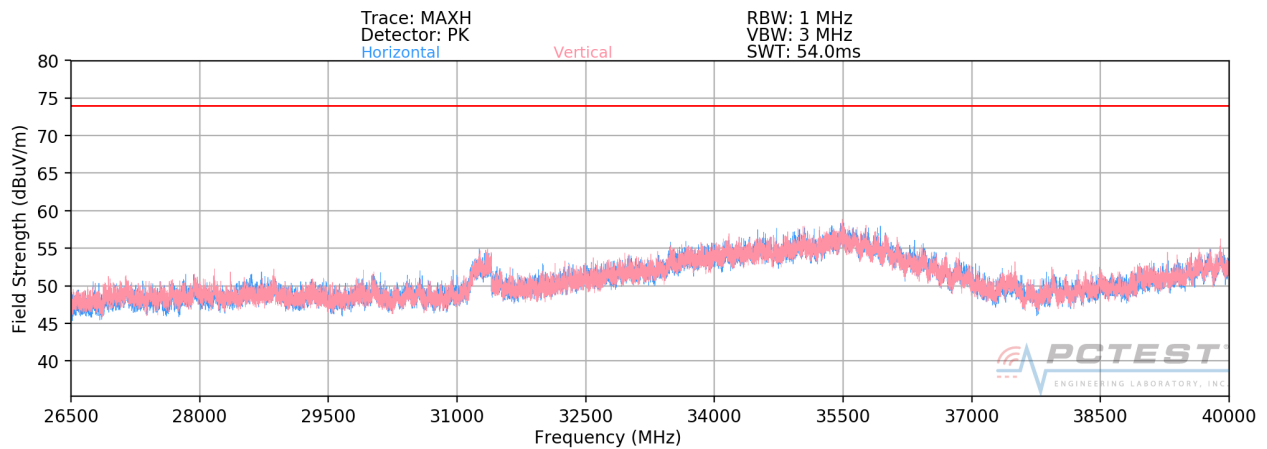
Plot 7-274. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11a – U3 Ch. 157)

| | | | | |
|--|---|--------------------------------------|---|--|
| FCC ID: A3LSMG981U |  MEASUREMENT REPORT (CERTIFICATION) | |  | Approved by: Quality Manager |
| Test Report S/N: 1M1910220165-06.A3L | Test Dates: 10/22 - 1/04/2020 | EUT Type: Portable Handset | Page 182 of 240 | |

SISO Antenna-2 Radiated Spurious Emissions Measurements (Above 18GHz)



Plot 7-275. Radiated Spurious Plot above 18GHz - 26.5GHz SISO ANT2 (802.11a)



Plot 7-276. Radiated Spurious Plot 26.5GHz - 40GHz SISO ANT2 (802.11a)

| | | | | | |
|--|---|--------------------------------------|---|-----------------|--|
| FCC ID: A3LSMG981U | | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1910220165-06.A3L | Test Dates: 10/22 - 1/04/2020 | EUT Type: Portable Handset | | Page 183 of 240 | |

SISO Antenna-2 Radiated Spurious Emission Measurements

§15.407(b) §15.205 & §15.209; RSS-Gen [8.9]

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

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| 10360.00 | Peak | H | 354 | 352 | -70.25 | 11.41 | 0.00 | 48.16 | 68.20 | -20.04 |
| * 15540.00 | Average | H | - | - | -84.04 | 13.23 | 0.00 | 36.19 | 53.98 | -17.79 |
| * 15540.00 | Peak | H | - | - | -71.41 | 13.23 | 0.00 | 48.82 | 73.98 | -25.16 |
| * 20720.00 | Average | H | - | - | -69.46 | 17.51 | -9.54 | 45.51 | 53.98 | -8.47 |
| * 20720.00 | Peak | H | - | - | -61.00 | 17.51 | -9.54 | 53.97 | 73.98 | -20.01 |
| 25900.00 | Peak | H | - | - | -59.08 | 19.88 | -9.54 | 58.26 | 68.20 | -9.94 |

Table 7-43. Radiated Measurements SISO ANT2

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5200MHz
 Channel: 40

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| 10400.00 | Peak | H | 371 | 53 | -70.03 | 11.17 | 0.00 | 48.14 | 68.20 | -20.06 |
| * 15600.00 | Average | H | - | - | -83.63 | 12.81 | 0.00 | 36.18 | 53.98 | -17.80 |
| * 15600.00 | Peak | H | - | - | -70.36 | 12.81 | 0.00 | 49.45 | 73.98 | -24.53 |
| * 20800.00 | Average | H | - | - | -68.24 | 17.87 | -9.54 | 47.08 | 53.98 | -6.90 |
| * 20800.00 | Peak | H | - | - | -61.46 | 17.87 | -9.54 | 53.86 | 73.98 | -20.12 |
| 26000.00 | Peak | H | - | - | -59.33 | 20.15 | -9.54 | 58.27 | 68.20 | -9.93 |

Table 7-44. Radiated Measurements SISO ANT2

| | | | | | |
|---|---|---------------------------------------|--|---|---------------------------------|
| FCC ID: A3LSMG981U |  | MEASUREMENT REPORT (CERTIFICATION) | |  | Approved by: Quality Manager |
| Test Report S/N: 1M1910220165-06.A3L | Test Dates: 10/22 - 1/04/2020 | EUT Type: Portable Handset | | Page 184 of 240 | |

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5240MHz
 Channel: 48

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| 10480.00 | Peak | H | 257 | 341 | -69.73 | 11.37 | 0.00 | 48.64 | 68.20 | -19.56 |
| * 15720.00 | Average | H | - | - | -83.52 | 15.18 | 0.00 | 38.66 | 53.98 | -15.32 |
| * 15720.00 | Peak | H | - | - | -71.02 | 15.18 | 0.00 | 51.16 | 73.98 | -22.82 |
| * 20960.00 | Average | H | - | - | -68.59 | 18.06 | -9.54 | 46.92 | 53.98 | -7.05 |
| * 20960.00 | Peak | H | - | - | -60.86 | 18.06 | -9.54 | 54.65 | 73.98 | -19.32 |
| 26200.00 | Peak | H | - | - | -58.93 | 20.23 | -9.54 | 58.76 | 68.20 | -9.44 |

Table 7-45. Radiated Measurements SISO ANT2

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5260MHz
 Channel: 52

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| 10520.00 | Peak | H | 100 | 348 | -69.30 | 11.86 | 0.00 | 49.56 | 68.20 | -18.64 |
| * 15780.00 | Average | H | - | - | -83.97 | 13.75 | 0.00 | 36.78 | 53.98 | -17.20 |
| * 15780.00 | Peak | H | - | - | -70.57 | 13.75 | 0.00 | 50.18 | 73.98 | -23.80 |
| * 21040.00 | Average | H | - | - | -68.82 | 18.36 | -9.54 | 46.99 | 53.98 | -6.99 |
| * 21040.00 | Peak | H | - | - | -60.94 | 18.36 | -9.54 | 54.87 | 73.98 | -19.11 |
| 26300.00 | Peak | H | - | - | -57.82 | 20.96 | -9.54 | 60.59 | 68.20 | -7.61 |

Table 7-46. Radiated Measurements SISO ANT2

| | | | |
|---|---|-------------------------------|---------------------------------|
| FCC ID: A3LSMG981U |  MEASUREMENT REPORT (CERTIFICATION)  | | Approved by: Quality Manager |
| Test Report S/N: 1M1910220165-06.A3L | Test Dates: 10/22 - 1/04/2020 | EUT Type: Portable Handset | Page 185 of 240 |

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5280MHz
 Channel: 56

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| 10560.00 | Peak | H | 308 | 47 | -69.38 | 12.47 | 0.00 | 50.09 | 68.20 | -18.11 |
| * 15840.00 | Average | H | - | - | -83.81 | 15.16 | 0.00 | 38.35 | 53.98 | -15.63 |
| * 15840.00 | Peak | H | - | - | -71.52 | 15.16 | 0.00 | 50.64 | 73.98 | -23.34 |
| * 21120.00 | Average | H | - | - | -67.96 | 18.17 | -9.54 | 47.66 | 53.98 | -6.31 |
| * 21120.00 | Peak | H | - | - | -60.66 | 18.17 | -9.54 | 54.96 | 73.98 | -19.01 |
| 26400.00 | Peak | H | - | - | -57.97 | 20.65 | -9.54 | 60.14 | 68.20 | -8.06 |

Table 7-47. Radiated Measurements SISO ANT2

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5320MHz
 Channel: 64

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| * 10640.00 | Average | H | 102 | 364 | -82.11 | 13.08 | 0.00 | 37.97 | 53.98 | -16.01 |
| * 10640.00 | Peak | H | 102 | 364 | -69.03 | 13.08 | 0.00 | 51.05 | 73.98 | -22.93 |
| * 15960.00 | Average | H | - | - | -84.21 | 13.43 | 0.00 | 36.22 | 53.98 | -17.76 |
| * 15960.00 | Peak | H | - | - | -70.79 | 13.43 | 0.00 | 49.64 | 73.98 | -24.34 |
| * 21280.00 | Average | H | - | - | -67.37 | 18.57 | -9.54 | 48.66 | 53.98 | -5.32 |
| * 21280.00 | Peak | H | - | - | -60.05 | 18.57 | -9.54 | 55.98 | 73.98 | -18.00 |
| 26600.00 | Peak | H | - | - | -52.40 | 5.16 | -9.54 | 50.22 | 68.20 | -17.98 |

Table 7-48. Radiated Measurements SISO ANT2

| | | | | | |
|---|---|---------------------------------------|--|---|---------------------------------|
| FCC ID: A3LSMG981U |  | MEASUREMENT REPORT (CERTIFICATION) | |  | Approved by: Quality Manager |
| Test Report S/N: 1M1910220165-06.A3L | Test Dates: 10/22 - 1/04/2020 | EUT Type: Portable Handset | | Page 186 of 240 | |

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| * 11000.00 | Average | H | 341 | 317 | -81.84 | 12.53 | 0.00 | 37.69 | 53.98 | -16.29 |
| * 11000.00 | Peak | H | 341 | 317 | -68.72 | 12.53 | 0.00 | 50.81 | 73.98 | -23.17 |
| 16500.00 | Peak | H | - | - | -70.25 | 15.04 | 0.00 | 51.79 | 68.20 | -16.41 |
| 22000.00 | Peak | H | - | - | -60.17 | 19.12 | -9.54 | 56.40 | 68.20 | -11.80 |
| 27500.00 | Peak | H | - | - | -50.98 | 3.98 | -9.54 | 50.46 | 68.20 | -17.74 |

Table 7-49. Radiated Measurements SISO ANT2

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5600MHz
 Channel: 120

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| * 11160.00 | Average | H | 349 | 186 | -82.49 | 12.71 | 0.00 | 37.22 | 53.98 | -16.76 |
| * 11160.00 | Peak | H | 349 | 186 | -70.17 | 12.71 | 0.00 | 49.54 | 73.98 | -24.44 |
| 16740.00 | Peak | H | - | - | -70.27 | 15.84 | 0.00 | 52.57 | 68.20 | -15.63 |
| * 22320.00 | Average | H | - | - | -67.66 | 20.03 | -9.54 | 49.83 | 53.98 | -4.15 |
| * 22320.00 | Peak | H | - | - | -59.47 | 20.03 | -9.54 | 58.02 | 73.98 | -15.96 |
| 27900.00 | Peak | H | - | - | -50.36 | 4.70 | -9.54 | 51.80 | 68.20 | -16.40 |

Table 7-50. Radiated Measurements SISO ANT2

| | | | | | |
|--|---|--------------------------------------|--|---|--|
| FCC ID: A3LSMG981U |  | | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M1910220165-06.A3L | Test Dates: 10/22 - 1/04/2020 | EUT Type: Portable Handset | | Page 187 of 240 | |

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5720MHz
 Channel: 144

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| * 11440.00 | Average | H | 306 | 369 | -83.31 | 12.70 | 0.00 | 36.39 | 53.98 | -17.59 |
| * 11440.00 | Peak | H | 306 | 369 | -70.11 | 12.70 | 0.00 | 49.59 | 73.98 | -24.39 |
| 17160.00 | Peak | H | - | - | -70.79 | 17.71 | 0.00 | 53.92 | 68.20 | -14.28 |
| * 22880.00 | Average | H | - | - | -68.61 | 19.50 | -9.54 | 48.35 | 53.98 | -5.63 |
| * 22880.00 | Peak | H | - | - | -60.94 | 19.50 | -9.54 | 56.02 | 73.98 | -17.96 |
| 28600.00 | Peak | H | - | - | -50.91 | 5.14 | -9.54 | 51.69 | 68.20 | -16.51 |

Table 7-51. Radiated Measurements SISO ANT2

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5745MHz
 Channel: 149

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| * 11490.00 | Average | H | 315 | 78 | -84.03 | 13.38 | 0.00 | 36.35 | 53.98 | -17.63 |
| * 11490.00 | Peak | H | 315 | 78 | -71.47 | 13.38 | 0.00 | 48.91 | 73.98 | -25.07 |
| 17235.00 | Peak | H | - | - | -71.90 | 17.44 | 0.00 | 52.54 | 68.20 | -15.66 |
| * 22980.00 | Average | H | - | - | -68.51 | 19.89 | -9.54 | 48.83 | 53.98 | -5.15 |
| * 22980.00 | Peak | H | - | - | -60.35 | 19.89 | -9.54 | 56.99 | 73.98 | -16.99 |
| 28725.00 | Peak | H | - | - | -51.02 | 4.66 | -9.54 | 51.10 | 68.20 | -17.10 |

Table 7-52. Radiated Measurements SISO ANT2

| | | | | | |
|---|---|-------------------------------|---------------------------------------|---|---------------------------------|
| FCC ID: A3LSMG981U |  | | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M1910220165-06.A3L | Test Dates: 10/22 - 1/04/2020 | EUT Type: Portable Handset | | Page 188 of 240 | |

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

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| * 11570.00 | Average | H | 368 | 119 | -83.19 | 12.70 | 0.00 | 36.51 | 53.98 | -17.47 |
| * 11570.00 | Peak | H | 368 | 119 | -70.88 | 12.70 | 0.00 | 48.82 | 73.98 | -25.16 |
| 17355.00 | Peak | H | - | - | -71.65 | 19.46 | 0.00 | 54.81 | 68.20 | -13.39 |
| 23140.00 | Peak | H | - | - | -61.46 | 19.59 | -9.54 | 55.59 | 68.20 | -12.61 |
| 28925.00 | Peak | H | - | - | -51.04 | 4.43 | -9.54 | 50.85 | 68.20 | -17.35 |

Table 7-53. Radiated Measurements SISO ANT2

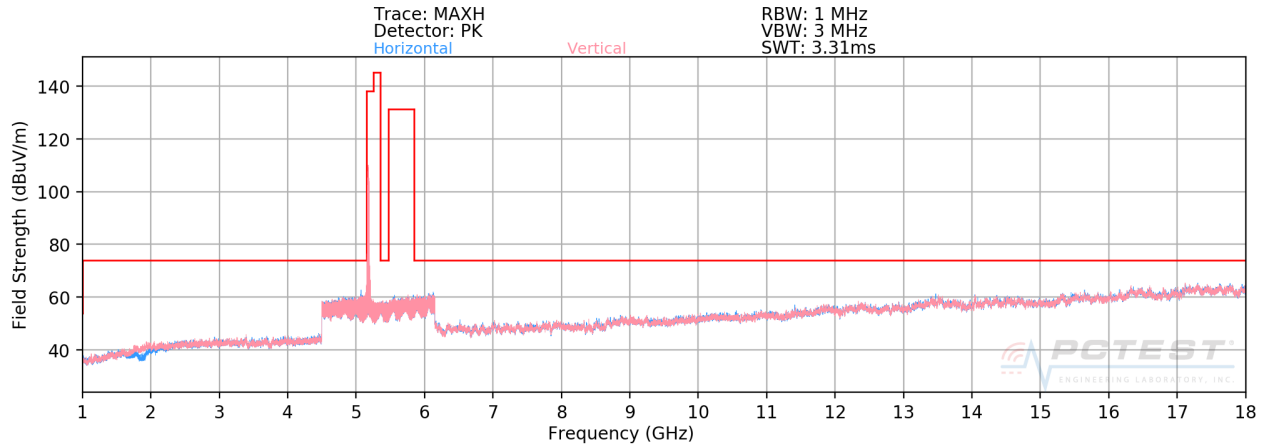
Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| * 11650.00 | Average | H | 114 | 218 | -83.43 | 13.24 | 0.00 | 36.81 | 53.98 | -17.17 |
| * 11650.00 | Peak | H | 114 | 218 | -70.43 | 13.24 | 0.00 | 49.81 | 73.98 | -24.17 |
| 17475.00 | Peak | H | - | - | -71.51 | 20.06 | 0.00 | 55.55 | 68.20 | -12.65 |
| 23300.00 | Peak | H | - | - | -60.51 | 18.93 | -9.54 | 55.88 | 68.20 | -12.32 |
| 29125.00 | Peak | H | - | - | -50.75 | 3.48 | -9.54 | 50.19 | 68.20 | -18.01 |

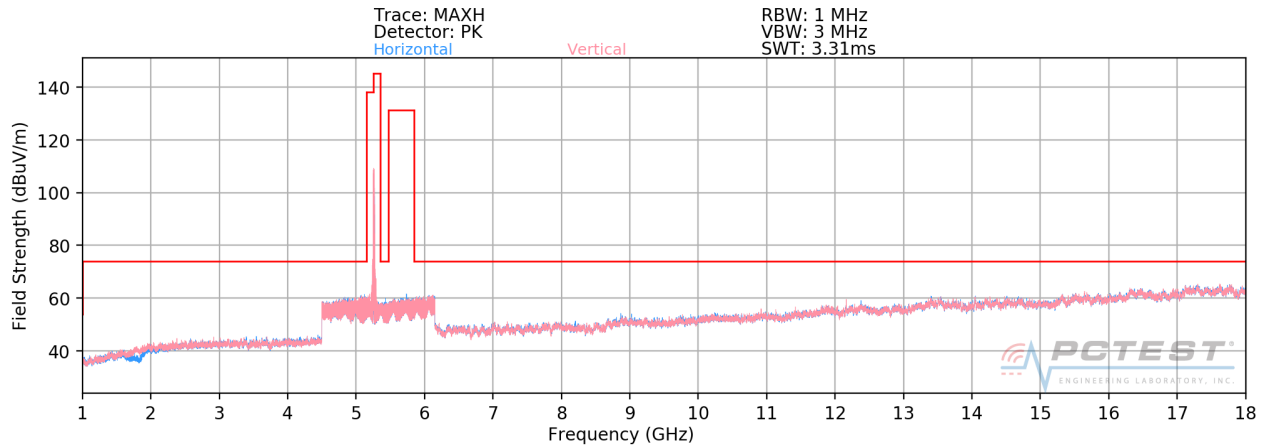
Table 7-54. Radiated Measurements SISO ANT2

| | | | | | |
|---|---|-------------------------------|---------------------------------------|---|---------------------------------|
| FCC ID: A3LSMG981U |  | | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M1910220165-06.A3L | Test Dates: 10/22 - 1/04/2020 | EUT Type: Portable Handset | | Page 189 of 240 | |

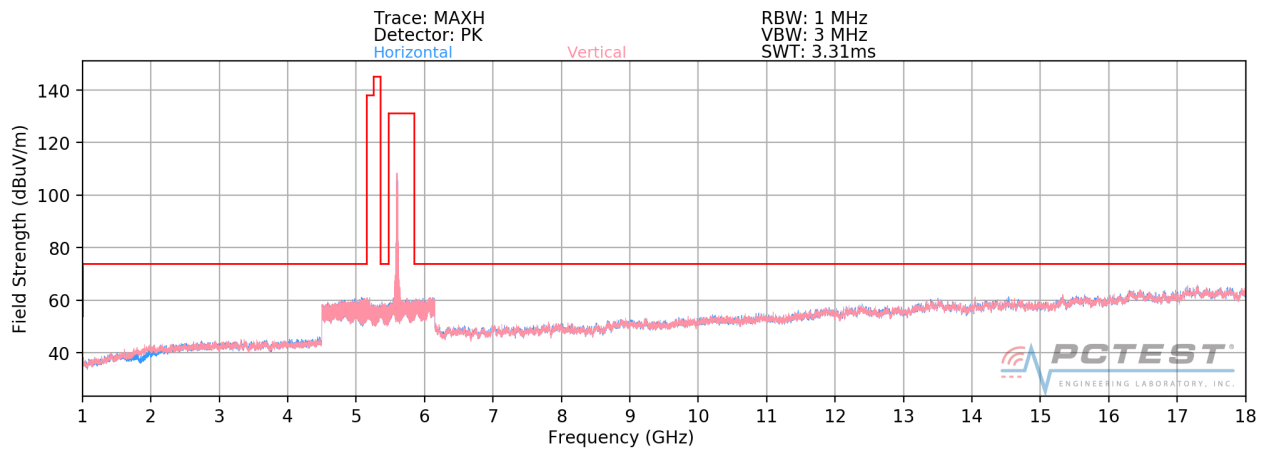
7.5.3 MIMO/CDD Radiated Spurious Emission Measurements



Plot 7-277. Radiated Spurious Plot above 1GHz MIMO/CDD (802.11a – U1 Ch. 40)

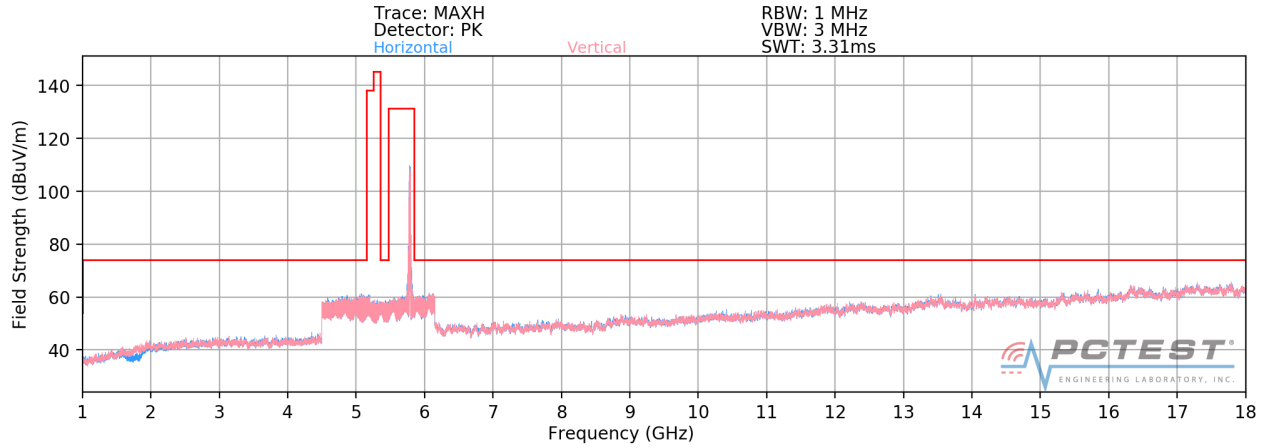


Plot 7-278. Radiated Spurious Plot above 1GHz MIMO/CDD (802.11a – U2A Ch. 56)



Plot 7-279. Radiated Spurious Plot above 1GHz MIMO/CDD (802.11a – U2C Ch. 116120)

| | | | | | |
|---|----------------------------------|---|--|--|---------------------------------|
| FCC ID: A3LSMG981U | | MEASUREMENT REPORT (CERTIFICATION) | | | Approved by: Quality Manager |
| Test Report S/N: 1M1910220165-06.A3L | Test Dates: 10/22 - 1/04/2020 | EUT Type: Portable Handset | | | Page 190 of 240 |



Plot 7-280. Radiated Spurious Plot above 1GHz MIMO/CDD (802.11a – U3 Ch. 157)

| | | | |
|--|---|--------------------------------------|--|
| FCC ID: A3LSMG981U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1910220165-06.A3L | Test Dates: 10/22 - 1/04/2020 | EUT Type: Portable Handset | Page 191 of 240 |

MIMO/CDD Radiated Spurious Emission Measurements

§15.407(b) §15.205 & §15.209; RSS-Gen [8.9]

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

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| 10360.00 | Peak | V | 116 | 61 | -68.40 | 11.41 | 0.00 | 50.01 | 68.20 | -18.19 |
| * 15540.00 | Average | V | 102 | 267 | -83.07 | 13.23 | 0.00 | 37.16 | 53.98 | -16.82 |
| * 15540.00 | Peak | V | 102 | 267 | -71.42 | 13.23 | 0.00 | 48.81 | 73.98 | -25.17 |
| * 20720.00 | Average | V | - | - | -68.25 | 7.97 | -9.54 | 37.18 | 53.98 | -16.80 |
| * 20720.00 | Peak | V | - | - | -59.58 | 7.97 | -9.54 | 45.85 | 73.98 | -28.13 |
| 25900.00 | Peak | V | - | - | -58.74 | 10.34 | -9.54 | 49.06 | 68.20 | -19.14 |

Table 7-55. Radiated Measurements MIMO/CDD

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5200MHz
 Channel: 40

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| 10400.00 | Peak | V | 100 | 172 | -68.92 | 11.17 | 0.00 | 49.25 | 68.20 | -18.95 |
| * 15600.00 | Average | V | - | - | -83.46 | 12.81 | 0.00 | 36.35 | 53.98 | -17.63 |
| * 15600.00 | Peak | V | - | - | -71.18 | 12.81 | 0.00 | 48.63 | 73.98 | -25.35 |
| * 20800.00 | Average | V | - | - | -68.49 | 8.33 | -9.54 | 37.29 | 53.98 | -16.69 |
| * 20800.00 | Peak | V | - | - | -61.17 | 8.33 | -9.54 | 44.61 | 73.98 | -29.37 |
| 26000.00 | Peak | V | - | - | -59.15 | 10.61 | -9.54 | 48.91 | 68.20 | -19.29 |

Table 7-56. Radiated Measurements MIMO/CDD

| | | | | | |
|---|---|---------------------------------------|--|---|---------------------------------|
| FCC ID: A3LSMG981U |  | MEASUREMENT REPORT (CERTIFICATION) | |  | Approved by: Quality Manager |
| Test Report S/N: 1M1910220165-06.A3L | Test Dates: 10/22 - 1/04/2020 | EUT Type: Portable Handset | | Page 192 of 240 | |

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5240MHz
 Channel: 48

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| 10480.00 | Peak | V | 115 | 172 | -69.08 | 11.37 | 0.00 | 49.29 | 68.20 | -18.91 |
| * 15720.00 | Average | V | 100 | 360 | -82.44 | 15.18 | 0.00 | 39.74 | 53.98 | -14.24 |
| * 15720.00 | Peak | V | 100 | 360 | -68.20 | 15.18 | 0.00 | 53.98 | 73.98 | -20.00 |
| * 20960.00 | Average | V | - | - | -68.63 | 8.52 | -9.54 | 37.34 | 53.98 | -16.63 |
| * 20960.00 | Peak | V | - | - | -61.06 | 8.52 | -9.54 | 44.91 | 73.98 | -29.06 |
| 26200.00 | Peak | V | - | - | -59.35 | 10.69 | -9.54 | 48.80 | 68.20 | -19.40 |

Table 7-57. Radiated Measurements MIMO/CDD

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5240MHz
 Channel: 48

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| 10480.00 | Peak | V | 121 | 169 | -70.13 | 11.37 | 0.00 | 48.24 | 68.20 | -19.96 |
| * 15720.00 | Average | V | 123 | 349 | -81.36 | 15.18 | 0.00 | 40.82 | 53.98 | -13.16 |
| * 15720.00 | Peak | V | 123 | 349 | -69.33 | 15.18 | 0.00 | 52.85 | 73.98 | -21.13 |
| * 20960.00 | Average | V | - | - | -68.79 | 8.52 | -9.54 | 37.18 | 53.98 | -16.79 |
| * 20960.00 | Peak | V | - | - | -62.36 | 8.52 | -9.54 | 43.61 | 73.98 | -30.36 |
| 26200.00 | Peak | V | - | - | -60.49 | 10.69 | -9.54 | 47.66 | 68.20 | -20.54 |

Table 7-58. Radiated Measurements MIMO/CDD with WCP

| | | | | | |
|---|---|---------------------------------------|--|---|---------------------------------|
| FCC ID: A3LSMG981U |  | MEASUREMENT REPORT (CERTIFICATION) | |  | Approved by: Quality Manager |
| Test Report S/N: 1M1910220165-06.A3L | Test Dates: 10/22 - 1/04/2020 | EUT Type: Portable Handset | | Page 193 of 240 | |

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5260MHz
 Channel: 52

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| 10520.00 | Peak | V | 100 | 167 | -67.75 | 11.86 | 0.00 | 51.11 | 68.20 | -17.09 |
| * 15780.00 | Average | V | 100 | 166 | -82.72 | 13.75 | 0.00 | 38.03 | 53.98 | -15.95 |
| * 15780.00 | Peak | V | 100 | 166 | -70.17 | 13.75 | 0.00 | 50.58 | 73.98 | -23.40 |
| * 21040.00 | Average | V | - | - | -67.92 | 8.82 | -9.54 | 38.35 | 53.98 | -15.63 |
| * 21040.00 | Peak | V | - | - | -61.11 | 8.82 | -9.54 | 45.16 | 73.98 | -28.82 |
| 26300.00 | Peak | V | - | - | -58.09 | 11.42 | -9.54 | 50.78 | 68.20 | -17.42 |

Table 7-59. Radiated Measurements MIMO/CDD

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5280MHz
 Channel: 56

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| 10560.00 | Peak | V | 112 | 187 | -68.45 | 12.47 | 0.00 | 51.02 | 68.20 | -17.18 |
| * 15840.00 | Average | V | 295 | 149 | -83.49 | 15.16 | 0.00 | 38.67 | 53.98 | -15.31 |
| * 15840.00 | Peak | V | 295 | 149 | -70.87 | 15.16 | 0.00 | 51.29 | 73.98 | -22.69 |
| * 21120.00 | Average | V | - | - | -67.84 | 8.63 | -9.54 | 38.24 | 53.98 | -15.73 |
| * 21120.00 | Peak | V | - | - | -60.12 | 8.63 | -9.54 | 45.96 | 73.98 | -28.01 |
| 26400.00 | Peak | V | - | - | -58.03 | 11.11 | -9.54 | 50.54 | 68.20 | -17.66 |

Table 7-60. Radiated Measurements MIMO/CDD

| | | | | | |
|--|---|--------------------------------------|--|---|--|
| FCC ID: A3LSMG981U |  | | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M1910220165-06.A3L | Test Dates: 10/22 - 1/04/2020 | EUT Type: Portable Handset | | Page 194 of 240 | |

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5320MHz
Channel: 64

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| * 10640.00 | Average | V | 100 | 169 | -80.93 | 13.08 | 0.00 | 39.15 | 53.98 | -14.83 |
| * 10640.00 | Peak | V | 100 | 169 | -68.46 | 13.08 | 0.00 | 51.62 | 73.98 | -22.36 |
| * 15960.00 | Average | V | 100 | 164 | -82.44 | 13.43 | 0.00 | 37.99 | 53.98 | -15.99 |
| * 15960.00 | Peak | V | 100 | 164 | -69.88 | 13.43 | 0.00 | 50.55 | 73.98 | -23.43 |
| * 21280.00 | Average | V | - | - | -67.36 | 9.03 | -9.54 | 39.13 | 53.98 | -14.85 |
| * 21280.00 | Peak | V | - | - | -59.90 | 9.03 | -9.54 | 46.59 | 73.98 | -27.39 |
| 26600.00 | Peak | V | - | - | -51.47 | -4.38 | -9.54 | 41.61 | 68.20 | -26.59 |

Table 7-61. Radiated Measurements MIMO/CDD

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5320MHz
Channel: 64

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| 10640.00 | Average | V | 114 | 201 | -81.01 | 13.08 | 0.00 | 39.07 | 53.98 | -14.91 |
| * 10640.00 | Peak | V | 114 | 201 | -69.51 | 13.08 | 0.00 | 50.57 | 73.98 | -23.41 |
| * 15960.00 | Average | V | 105 | 178 | -83.06 | 13.43 | 0.00 | 37.37 | 53.98 | -16.61 |
| * 15960.00 | Peak | V | 105 | 178 | -70.08 | 13.43 | 0.00 | 50.35 | 73.98 | -23.63 |
| * 21280.00 | Average | V | - | - | -68.24 | 9.03 | -9.54 | 38.25 | 53.98 | -15.73 |
| 21280.00 | Peak | V | - | - | -60.19 | 9.03 | -9.54 | 46.30 | 73.98 | -27.68 |
| 26600.00 | Peak | V | - | - | -52.10 | -4.38 | -9.54 | 40.98 | 68.20 | -27.22 |

Table 7-62. Radiated Measurements MIMO/CDD with WCP

| | | | | | |
|---|---|---------------------------------------|--|---|---------------------------------|
| FCC ID: A3LSMG981U |  | MEASUREMENT REPORT (CERTIFICATION) | |  | Approved by: Quality Manager |
| Test Report S/N: 1M1910220165-06.A3L | Test Dates: 10/22 - 1/04/2020 | EUT Type: Portable Handset | | Page 195 of 240 | |

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| * 11000.00 | Average | V | 250 | 28 | -81.99 | 12.53 | 0.00 | 37.54 | 53.98 | -16.44 |
| * 11000.00 | Peak | V | 250 | 28 | -69.65 | 12.53 | 0.00 | 49.88 | 73.98 | -24.10 |
| 16500.00 | Peak | V | 101 | 160 | -66.22 | 15.04 | 0.00 | 55.82 | 68.20 | -12.38 |
| 22000.00 | Peak | V | - | - | -59.86 | 9.58 | -9.54 | 47.17 | 68.20 | -21.03 |
| 27500.00 | Peak | V | - | - | -51.36 | -5.56 | -9.54 | 40.54 | 68.20 | -27.66 |

Table 7-63. Radiated Measurements MIMO/CDD

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5580MHz
 Channel: 116

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| * 11160.00 | Average | V | 102 | 141 | -81.67 | 12.71 | 0.00 | 38.04 | 53.98 | -15.94 |
| * 11160.00 | Peak | V | 102 | 141 | -68.23 | 12.71 | 0.00 | 51.48 | 73.98 | -22.50 |
| 16740.00 | Peak | V | 101 | 160 | -67.74 | 15.84 | 0.00 | 55.10 | 68.20 | -13.10 |
| * 22320.00 | Average | V | - | - | -67.62 | 10.36 | -9.54 | 40.20 | 53.98 | -13.78 |
| * 22320.00 | Peak | V | - | - | -60.39 | 10.36 | -9.54 | 47.43 | 73.98 | -26.55 |
| 27900.00 | Peak | V | - | - | -50.34 | -5.17 | -9.54 | 41.94 | 68.20 | -26.26 |

Table 7-64. Radiated Measurements MIMO/CDD

| | | | | | |
|---|---|-------------------------------|---------------------------------------|---|---------------------------------|
| FCC ID: A3LSMG981U |  | | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M1910220165-06.A3L | Test Dates: 10/22 - 1/04/2020 | EUT Type: Portable Handset | | Page 196 of 240 | |

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5700MHz
 Channel: 140

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| * 11440.00 | Average | V | 115 | 99 | -83.00 | 12.70 | 0.00 | 36.70 | 53.98 | -17.28 |
| * 11440.00 | Peak | V | 115 | 99 | -71.09 | 12.70 | 0.00 | 48.61 | 73.98 | -25.37 |
| 17160.00 | Peak | V | 101 | 66 | -70.64 | 17.71 | 0.00 | 54.07 | 68.20 | -14.13 |
| * 22880.00 | Average | V | - | - | -68.59 | 9.96 | -9.54 | 38.83 | 53.98 | -15.15 |
| * 22880.00 | Peak | V | - | - | -60.71 | 9.96 | -9.54 | 46.71 | 73.98 | -27.27 |
| 28600.00 | Peak | V | - | - | -50.68 | -4.40 | -9.54 | 42.38 | 68.20 | -25.82 |

Table 7-65. Radiated Measurements MIMO/CDD

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5580MHz
 Channel: 116

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| * 11160.00 | Average | V | 141 | 167 | -81.74 | 12.71 | 0.00 | 37.97 | 53.98 | -16.01 |
| * 11160.00 | Peak | V | 141 | 167 | -69.04 | 12.71 | 0.00 | 50.67 | 73.98 | -23.31 |
| 16740.00 | Peak | V | 116 | 159 | -68.49 | 15.84 | 0.00 | 54.35 | 68.20 | -13.85 |
| * 22320.00 | Average | V | - | - | -66.34 | 10.36 | -9.54 | 41.48 | 53.98 | -12.50 |
| * 22320.00 | Peak | V | - | - | -61.04 | 10.36 | -9.54 | 46.78 | 73.98 | -27.20 |
| 27900.00 | Peak | V | - | - | -50.46 | -5.17 | -9.54 | 41.82 | 68.20 | -26.38 |

Table 7-66. Radiated Measurements MIMO/CDD with WCP

| | | | | | |
|---|---|---------------------------------------|--|---|---------------------------------|
| FCC ID: A3LSMG981U |  | MEASUREMENT REPORT (CERTIFICATION) | |  | Approved by: Quality Manager |
| Test Report S/N: 1M1910220165-06.A3L | Test Dates: 10/22 - 1/04/2020 | EUT Type: Portable Handset | | Page 197 of 240 | |

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5745MHz
 Channel: 149

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| * 11490.00 | Average | V | 102 | 156 | -83.27 | 13.38 | 0.00 | 37.11 | 53.98 | -16.87 |
| * 11490.00 | Peak | V | 102 | 156 | -70.75 | 13.38 | 0.00 | 49.63 | 73.98 | -24.35 |
| 17235.00 | Peak | V | 101 | 161 | -70.38 | 17.44 | 0.00 | 54.06 | 68.20 | -14.14 |
| * 22980.00 | Average | V | - | - | -68.57 | 10.35 | -9.54 | 39.23 | 53.98 | -14.75 |
| * 22980.00 | Peak | V | - | - | -60.68 | 10.35 | -9.54 | 47.12 | 73.98 | -26.86 |
| 28725.00 | Peak | V | - | - | -49.62 | -4.88 | -9.54 | 42.96 | 69.20 | -26.24 |

Table 7-67. Radiated Measurements MIMO/CDD

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

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| * 11570.00 | Average | V | 388 | 198 | -83.11 | 12.70 | 0.00 | 36.59 | 53.98 | -17.39 |
| * 11570.00 | Peak | V | 388 | 198 | -70.31 | 12.70 | 0.00 | 49.39 | 73.98 | -24.59 |
| 17355.00 | Peak | V | 101 | 32 | -70.49 | 19.46 | 0.00 | 55.97 | 68.20 | -12.23 |
| 23140.00 | Peak | V | - | - | -61.02 | 10.05 | -9.54 | 46.49 | 68.20 | -21.71 |
| 28925.00 | Peak | V | - | - | -51.28 | -5.11 | -9.54 | 41.07 | 68.20 | -27.13 |

Table 7-68. Radiated Measurements MIMO/CDD

| | | | | | |
|--|---|--------------------------------------|---|---|--|
| FCC ID: A3LSMG981U |  | | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M1910220165-06.A3L | Test Dates: 10/22 - 1/04/2020 | EUT Type: Portable Handset | | Page 198 of 240 | |

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| * 11650.00 | Average | V | 400 | 343 | -83.25 | 13.24 | 0.00 | 36.99 | 53.98 | -16.99 |
| * 11650.00 | Peak | V | 400 | 343 | -70.66 | 13.24 | 0.00 | 49.58 | 73.98 | -24.40 |
| 17475.00 | Peak | V | 102 | 22 | -69.70 | 20.06 | 0.00 | 57.36 | 68.20 | -10.84 |
| 23300.00 | Peak | V | - | - | -61.19 | 9.39 | -9.54 | 45.66 | 68.20 | -22.54 |
| 29125.00 | Peak | V | - | - | -49.73 | -6.06 | -9.54 | 41.67 | 68.20 | -26.53 |

Table 7-69. Radiated Measurements MIMO/CDD

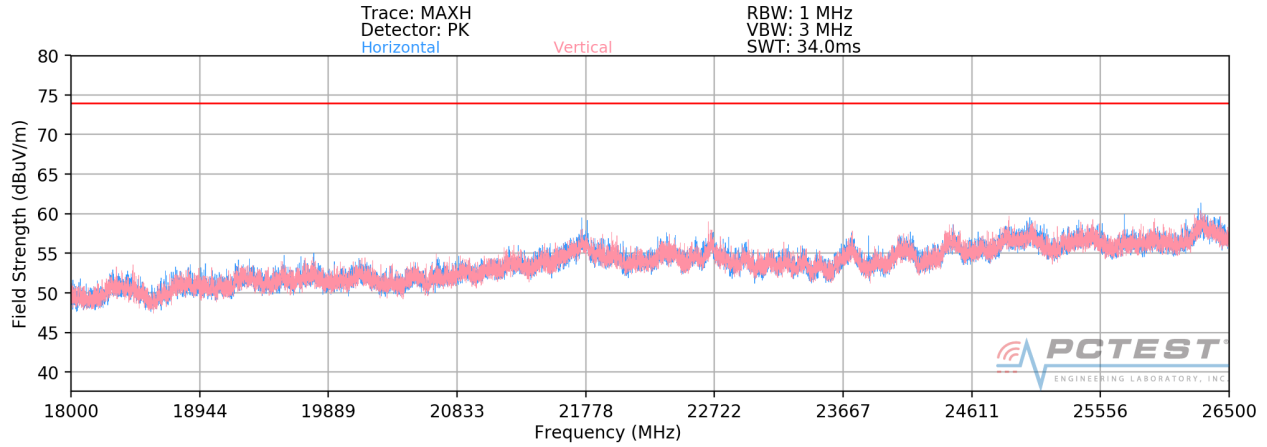
Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| * 11650.00 | Average | V | 347 | 216 | -83.31 | 13.24 | 0.00 | 36.93 | 53.98 | -17.05 |
| * 11650.00 | Peak | V | 347 | 216 | -71.24 | 13.24 | 0.00 | 49.00 | 73.98 | -24.98 |
| 17475.00 | Peak | V | - | - | -70.04 | 20.06 | 0.00 | 57.02 | 68.20 | -11.18 |
| 23300.00 | Peak | V | - | - | -62.04 | 9.39 | -9.54 | 44.81 | 68.20 | -23.39 |
| 29125.00 | Peak | V | - | - | -50.22 | -6.06 | -9.54 | 41.18 | 68.20 | -27.02 |

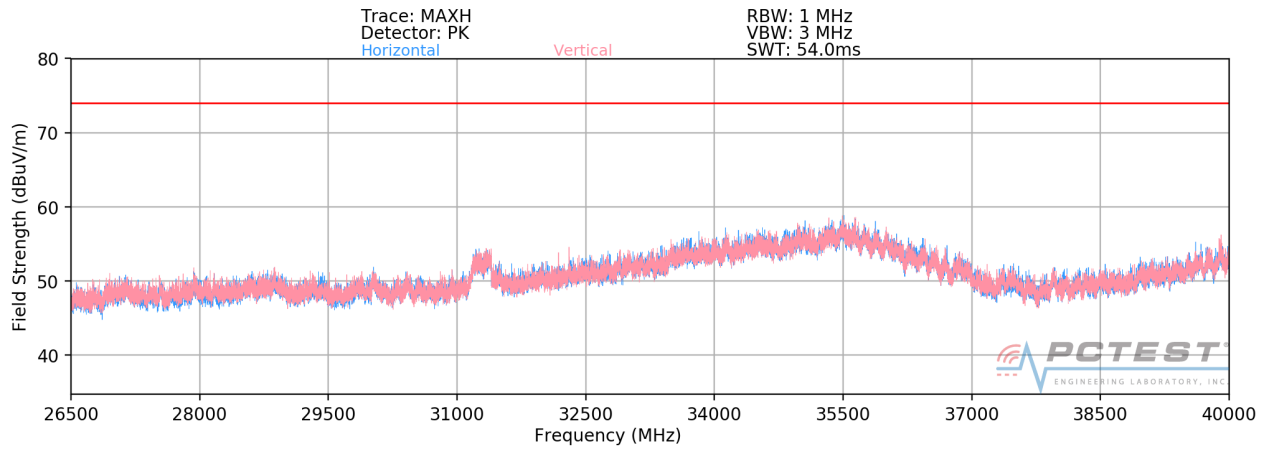
Table 7-70. Radiated Measurements MIMO/CDD with WCP

| | | | | | |
|--|---|--------------------------------------|---|---|--|
| FCC ID: A3LSMG981U |  | | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M1910220165-06.A3L | Test Dates: 10/22 - 1/04/2020 | EUT Type: Portable Handset | | | Page 199 of 240 |

MIMO/CDD Radiated Spurious Emissions Measurements (Above 18GHz)



Plot 7-281. Radiated Spurious Plot above 18GHz - 26.5GHz MIMO/CDD (802.11a)



Plot 7-282. Radiated Spurious Plot 26.5GHz - 40GHz MIMO/CDD (802.11a)

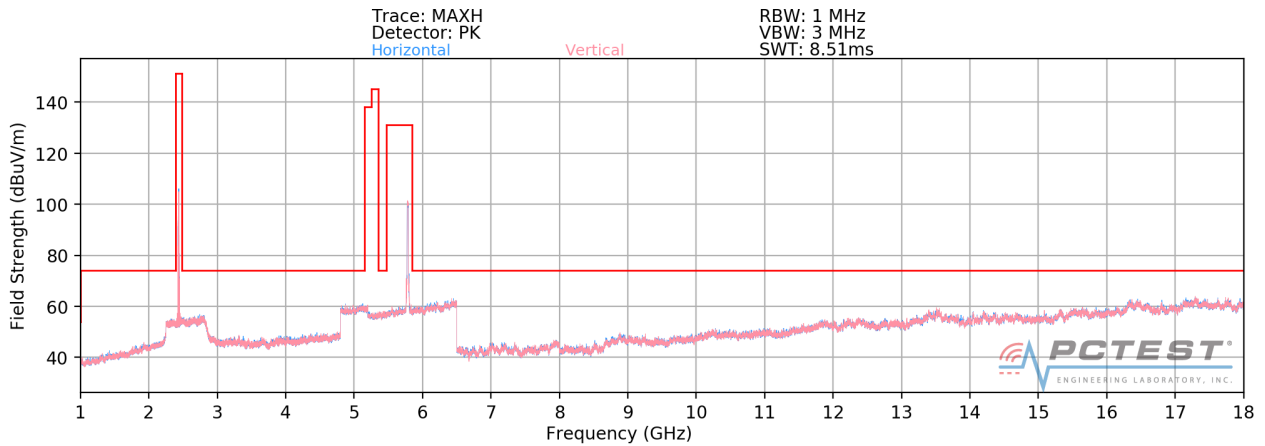
| | | | | | |
|--|---|--------------------------------------|---|-----------------|--|
| FCC ID: A3LSMG981U | | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1910220165-06.A3L | Test Dates: 10/22 - 1/04/2020 | EUT Type: Portable Handset | | Page 200 of 240 | |

7.5.4 Simultaneous Tx Radiated Spurious Emissions Measurements

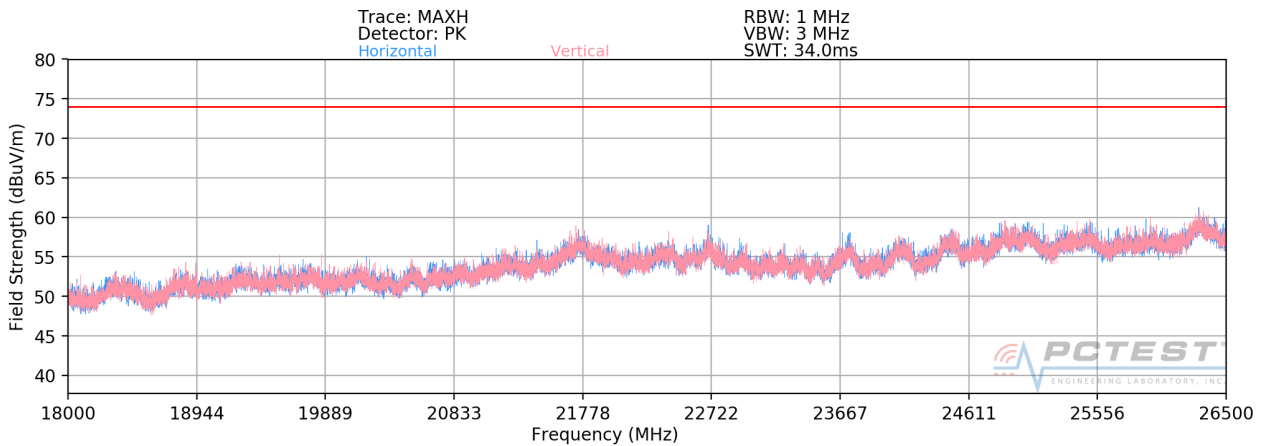
§15.407(b) §15.205 & §15.209; RSS-Gen [8.9]

| Description | 2.4 GHz Emission | 5 GHz Emission |
|---------------------------|------------------|----------------|
| Antenna | 1 | 2 |
| Channel | 6 | 40 |
| Operating Frequency (MHz) | 2437 | 5200 |
| Data Rate (Mbps) | 1 | MCS0 |
| Mode | 802.11b | 802.11n |

Table 7-71. Simultaneous Transmission Config-1

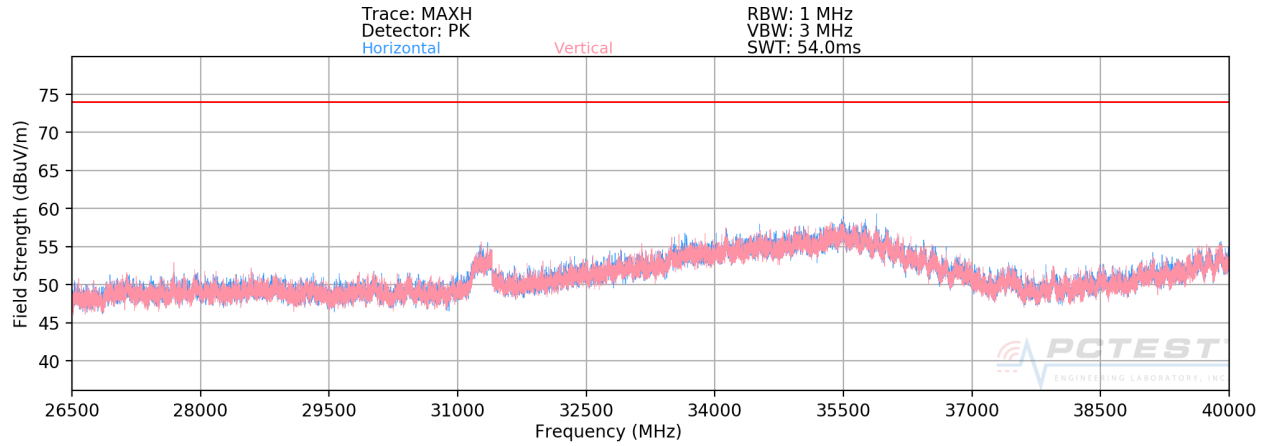


Plot 7-283. Radiated Spurious Plot above 1GHz (2.4GHz – 5GHz)



Plot 7-284. Radiated Spurious Plot 18GHz – 26.5GHz (2.4GHz – 5GHz)

| | | | | |
|---|----------------------------------|---|--|---------------------------------|
| FCC ID: A3LSMG981U | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1910220165-06.A3L | Test Dates: 10/22 - 1/04/2020 | EUT Type: Portable Handset | | Page 201 of 240 |

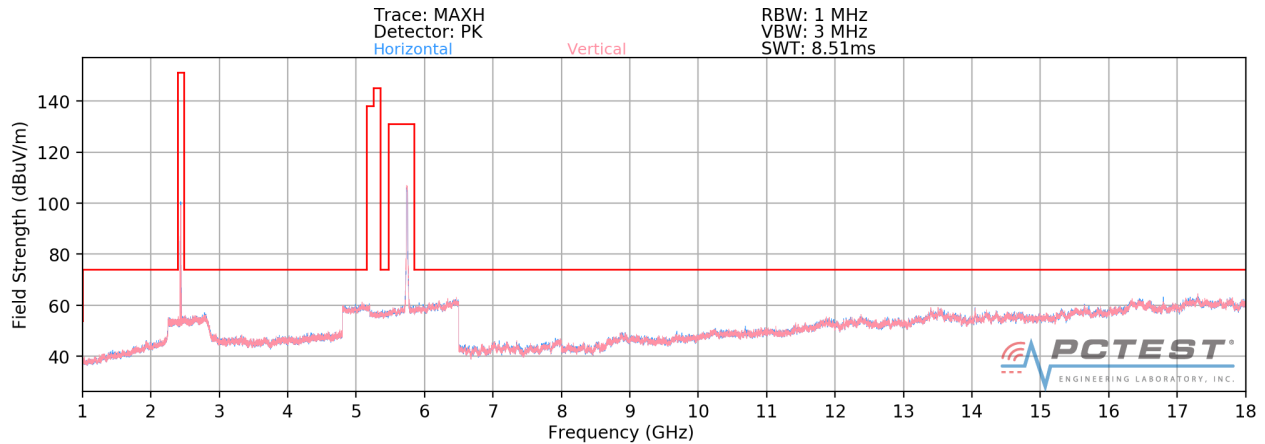


Plot 7-285. Radiated Spurious Plot above 26.5GHz (2.4GHz – 5GHz)

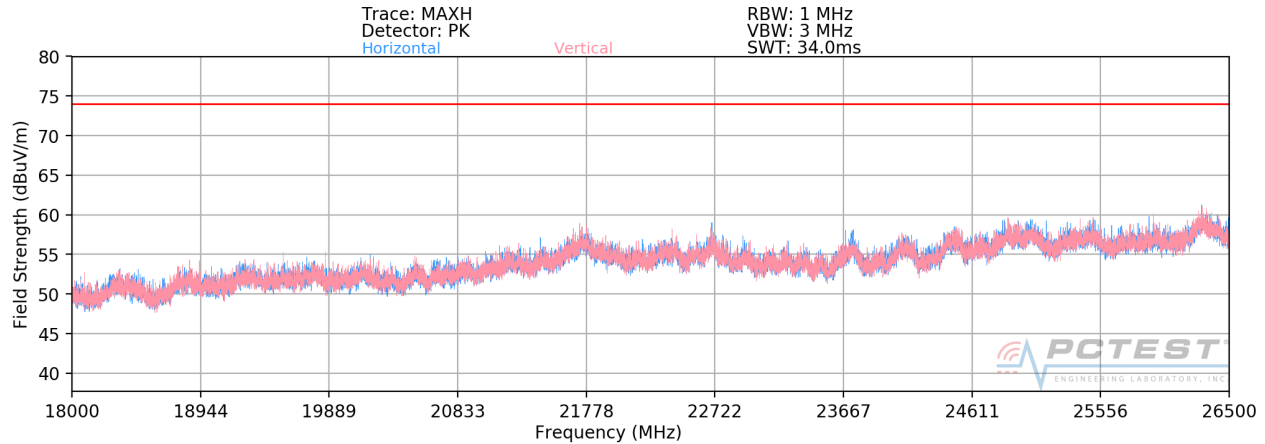
| | | | | |
|--|---|--------------------------------------|---|--|
| FCC ID: A3LSMG981U |  MEASUREMENT REPORT (CERTIFICATION) | |  | Approved by: Quality Manager |
| Test Report S/N: 1M1910220165-06.A3L | Test Dates: 10/22 - 1/04/2020 | EUT Type: Portable Handset | Page 202 of 240 | |

| Description | 2.4 GHz Emission | 5 GHz Emission |
|---------------------------|------------------|----------------|
| Antenna | 2 | 1 |
| Channel | 6 | 120 |
| Operating Frequency (MHz) | 2437 | 5600 |
| Data Rate (Mbps) | 1 | MCS0 |
| Mode | 802.11b | 802.11n |

Table 7-72. Simultaneous Transmission Config-2

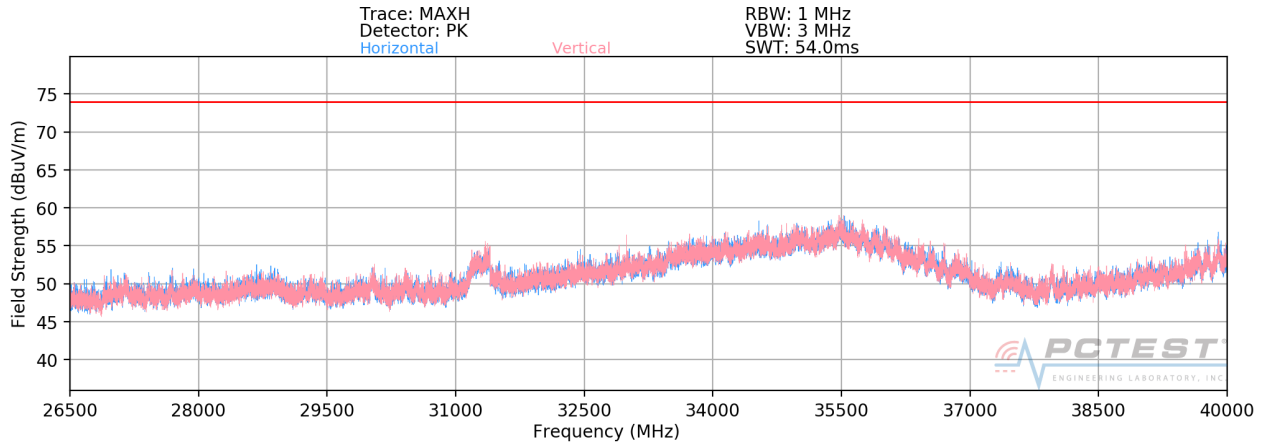


Plot 7-286. Radiated Spurious Plot above 1GHz (5GHz – 2.4 GHz)



Plot 7-287. Radiated Spurious Plot 18GHz – 26.5GHz (5GHz – 2.4 GHz)

| | | | | |
|---|----------------------------------|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSMG981U | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1910220165-06.A3L | Test Dates: 10/22 - 1/04/2020 | EUT Type: Portable Handset | | Page 203 of 240 |

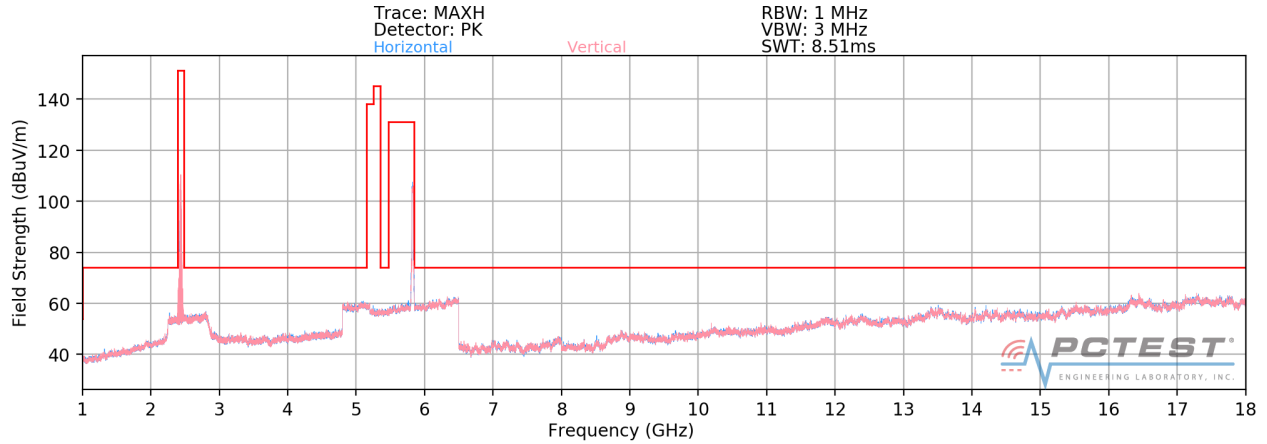


Plot 7-288. Radiated Spurious Plot above 26.5GHz (5GHz – 2.4 GHz)

| | | | | |
|--|---|--------------------------------------|---|--|
| FCC ID: A3LSMG981U |  MEASUREMENT REPORT (CERTIFICATION) | |  | Approved by: Quality Manager |
| Test Report S/N: 1M1910220165-06.A3L | Test Dates: 10/22 - 1/04/2020 | EUT Type: Portable Handset | Page 204 of 240 | |

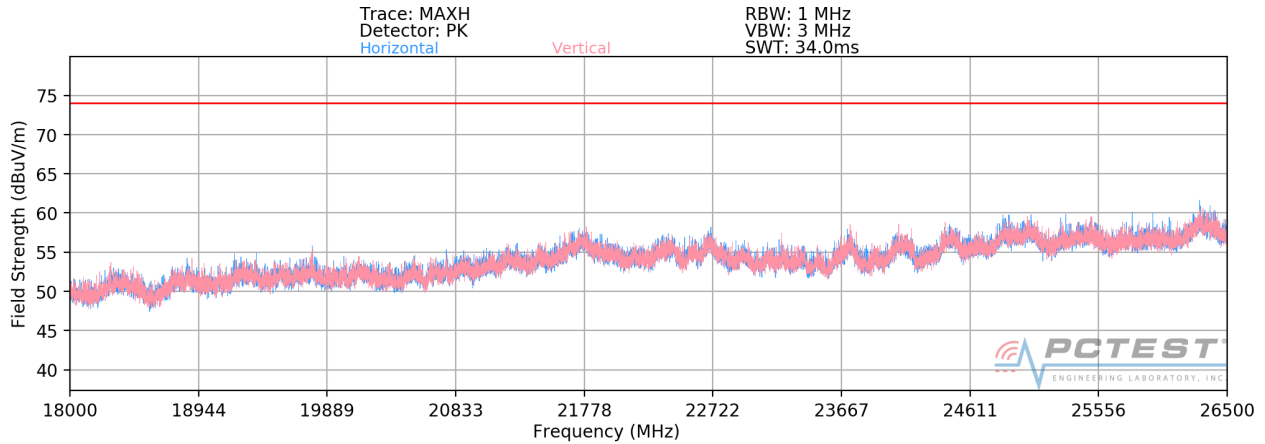
| Description | 2.4 GHz Emission | 5 GHz Emission |
|---------------------------|------------------|----------------|
| Antenna | 1, 2 | 1, 2 |
| Channel | 6 | 36 |
| Operating Frequency (MHz) | 2437 | 5180 |
| Data Rate (Mbps) | MCS8 | MCS8 |
| Mode | 802.11n | 802.11n |

Table 7-73. Dual Band Simultaneous Transmission

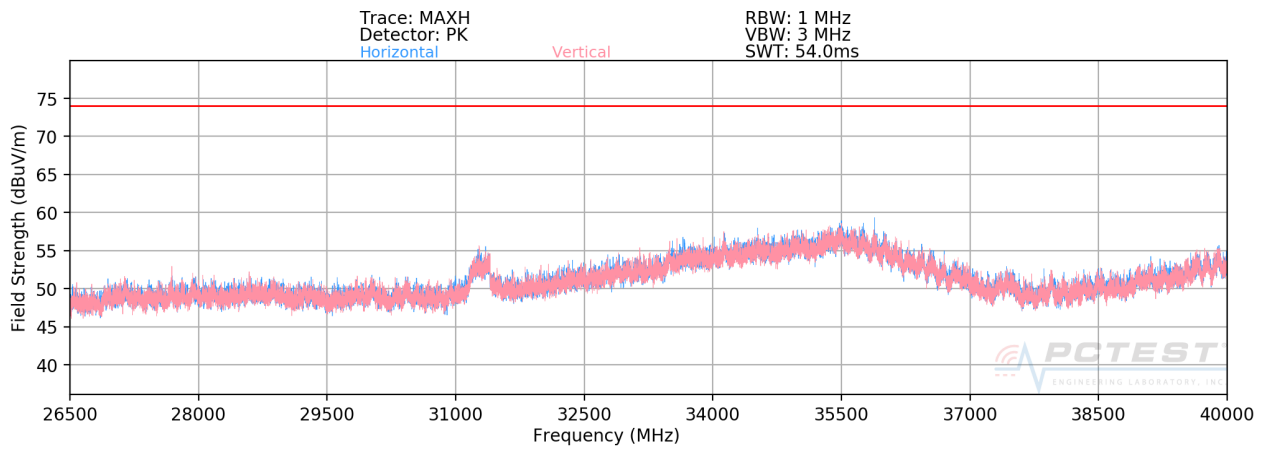


Plot 7-289. Radiated Spurious Plot above 1GHz (Dual Band Simult. Tx)

| | | | | |
|--|---|--------------------------------------|---|--|
| FCC ID: A3LSMG981U |  MEASUREMENT REPORT (CERTIFICATION) | |  | Approved by: Quality Manager |
| Test Report S/N: 1M1910220165-06.A3L | Test Dates: 10/22 - 1/04/2020 | EUT Type: Portable Handset | Page 205 of 240 | |



Plot 7-290. Radiated Spurious Plot 18GHz – 26.5GHz (Dual Band Simult. Tx)

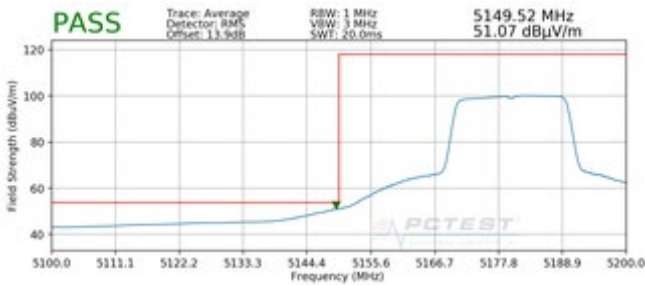


Plot 7-291. Radiated Spurious Plot above 26.5GHz (Dual Band Simult. Tx)

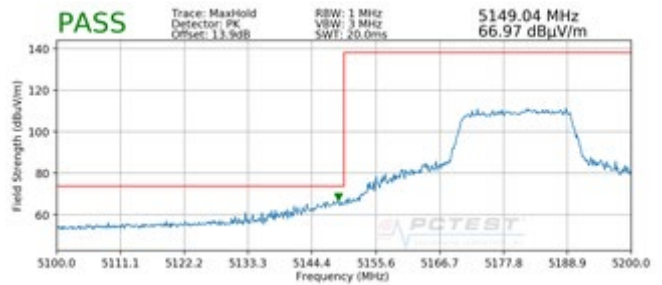
| | | | |
|---|---|-------------------------------|---------------------------------|
| FCC ID: A3LSMG981U |  MEASUREMENT REPORT (CERTIFICATION)  | | Approved by: Quality Manager |
| Test Report S/N: 1M1910220165-06.A3L | Test Dates: 10/22 - 1/04/2020 | EUT Type: Portable Handset | Page 206 of 240 |

7.5.5 SISO Antenna-1 Radiated Band Edge Measurements (20MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]; RSS-Gen [8.9]

| | |
|---------------------------|----------|
| Worst Case Mode: | 802.11ax |
| Worst Case Transfer Rate: | MCS0 |
| Distance of Measurements: | 3 Meters |
| Operating Frequency: | 5180MHz |
| Channel: | 36 |

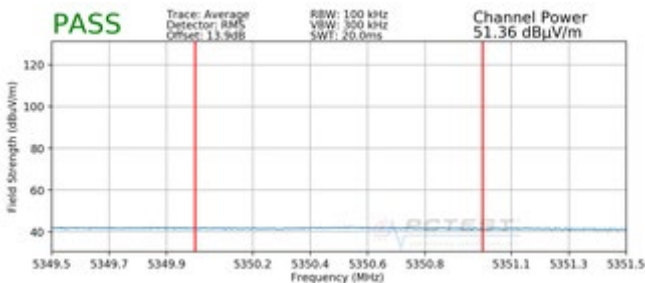


Plot 7-292. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1)

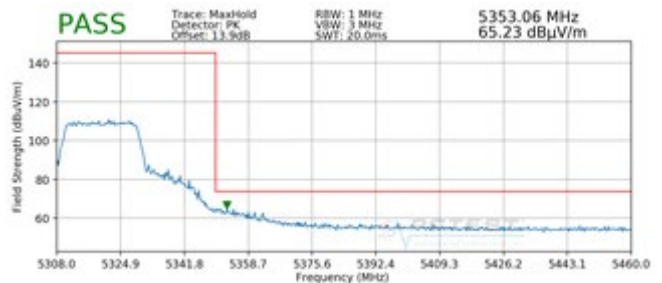


Plot 7-293. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1)

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



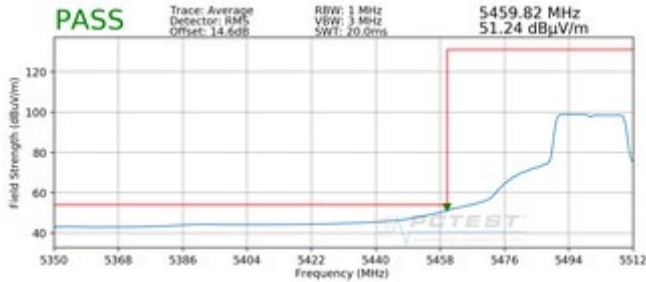
Plot 7-294. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2A)



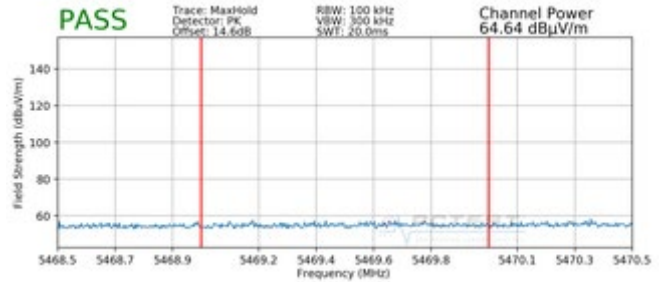
Plot 7-295. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 2A)

| | | | | |
|---|----------------------------------|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSMG981U | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1910220165-06.A3L | Test Dates: 10/22 - 1/04/2020 | EUT Type: Portable Handset | | Page 207 of 240 |

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

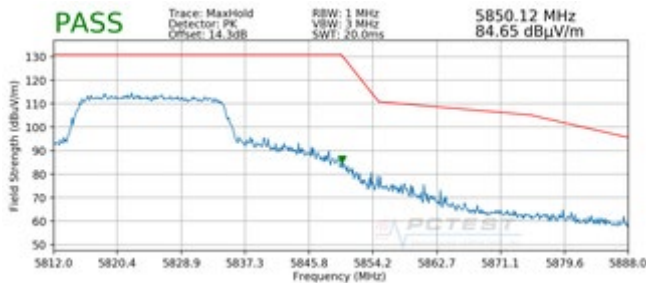


Plot 7-296. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 2C)



Plot 7-297. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 2C)

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

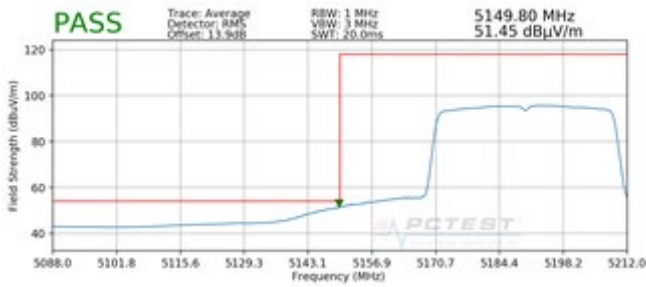


Plot 7-298. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 3)

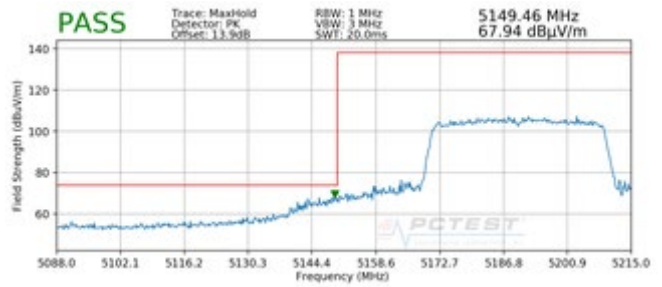
| | | | | |
|---|---|---------------------------------------|---|---------------------------------|
| FCC ID: A3LSMG981U |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M1910220165-06.A3L | Test Dates: 10/22 - 1/04/2020 | EUT Type: Portable Handset | | Page 208 of 240 |

7.5.6 SISO Antenna-1 Radiated Band Edge Measurements (40MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

| | |
|---------------------------|----------|
| Worst Case Mode: | 802.11ax |
| Worst Case Transfer Rate: | MCS0 |
| Distance of Measurements: | 3 Meters |
| Operating Frequency: | 5190MHz |
| Channel: | 38 |

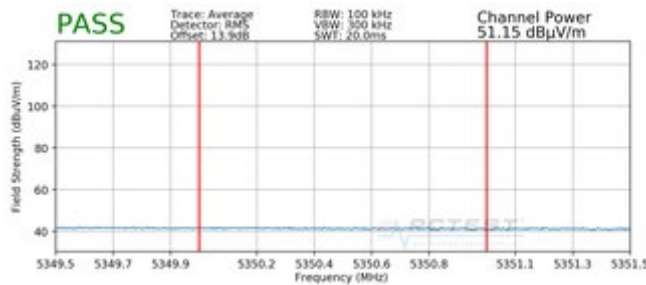


Plot 7-299. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1)

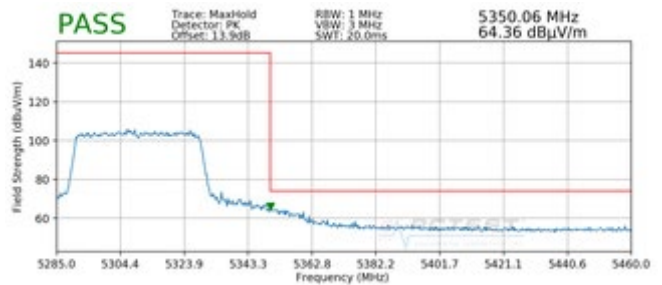


Plot 7-300. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1)

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



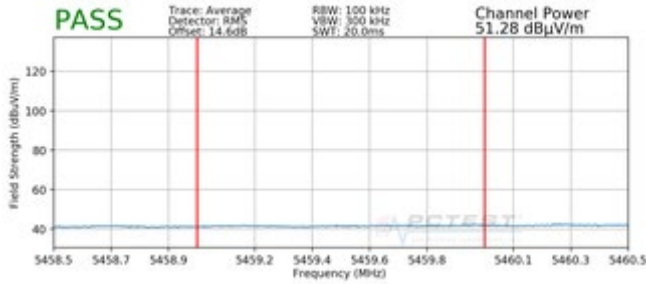
Plot 7-301. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2A)



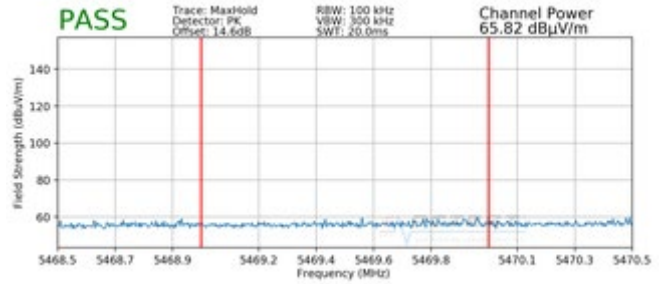
Plot 7-302. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 2A)

| | | | | |
|---|----------------------------------|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSMG981U | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1910220165-06.A3L | Test Dates: 10/22 - 1/04/2020 | EUT Type: Portable Handset | | Page 209 of 240 |

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

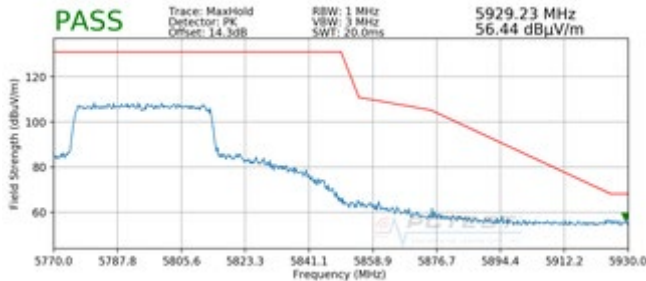


Plot 7-303. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 2C)



Plot 7-304. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 2C)

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



Plot 7-305. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 3)

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|---|---|---------------------------------------|---|---------------------------------|
| FCC ID: A3LSMG981U |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M1910220165-06.A3L | Test Dates: 10/22 - 1/04/2020 | EUT Type: Portable Handset | | Page 210 of 240 |