

SISO Antenna-2 Conducted Output Power Measurements (242 Tones)

| 5GHz (20MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | Conducted Power Limit [dBm] | Conducted Power Margin [dB] | Ant. Gain [dBi] | Max e.i.r.p. [dBm] | Max e.i.r.p. Limit [dBm] | e.i.r.p. Margin [dB] | |
|------------------------|------------|---------|----------|-------|----------|-----------------------------|-----------------------------|-----------------|--------------------|--------------------------|----------------------|--|
| | | | | | | 61 | | | | | | |
| | | | | | | | | | | | | |
| | 5180 | 36 | AVG | 242T | 15.94 | 23.98 | -8.04 | -13.40 | 2.54 | 22.39 | -19.85 | |
| | 5200 | 40 | AVG | 242T | 15.96 | 23.98 | -8.02 | -13.40 | 2.56 | 22.39 | -19.83 | |
| | 5240 | 48 | AVG | 242T | 15.79 | 23.98 | -8.19 | -11.70 | 4.09 | 22.39 | -18.30 | |
| | 5260 | 52 | AVG | 242T | 15.92 | 23.47 | -7.55 | -11.70 | 4.22 | 29.47 | -25.25 | |
| | 5280 | 56 | AVG | 242T | 15.99 | 23.47 | -7.48 | -11.70 | 4.29 | 29.47 | -25.18 | |
| | 5320 | 64 | AVG | 242T | 15.96 | 23.47 | -7.51 | -11.70 | 4.26 | 29.47 | -25.21 | |
| | 5500 | 100 | AVG | 242T | 15.93 | 22.80 | -6.87 | -8.20 | 7.73 | 28.80 | -21.07 | |
| | 5600 | 120 | AVG | 242T | 15.97 | 22.80 | -6.83 | -8.20 | 7.77 | 28.80 | -21.03 | |
| | 5720 | 144 | AVG | 242T | 15.92 | 22.80 | -6.88 | -8.20 | 7.72 | 28.80 | -21.08 | |
| | 5745 | 149 | AVG | 242T | 15.98 | 30.00 | -14.02 | 0.30 | 16.28 | - | - | |
| | 5785 | 157 | AVG | 242T | 15.76 | 30.00 | -14.24 | 0.30 | 16.06 | - | - | |
| | 5825 | 165 | AVG | 242T | 15.97 | 30.00 | -14.03 | 0.30 | 16.27 | - | - | |

Table 7-34. SISO ANT2 20MHz BW (UNII) Maximum Conducted Output Power (242 Tones)

| 5GHz (40MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] | Ant. Gain [dBi] | Max e.i.r.p. [dBm] | Max e.i.r.p. Limit [dBm] | e.i.r.p. Margin [dB] | |
|------------------------|------------|---------|----------|-------|----------|-------|-----------------------------|-----------------------------|-----------------|--------------------|--------------------------|----------------------|--|
| | | | | | | 61 | 62 | | | | | | |
| | | | | | | | | | | | | | |
| | 5190 | 38 | AVG | 242T | 14.64 | 14.58 | 23.98 | -9.34 | -13.40 | 1.24 | 22.39 | -21.15 | |
| | 5230 | 46 | AVG | 242T | 16.05 | 15.98 | 23.98 | -7.93 | -11.70 | 4.35 | 22.39 | -18.04 | |
| | 5270 | 54 | AVG | 242T | 15.98 | 15.96 | 23.47 | -7.49 | -11.70 | 4.28 | 29.47 | -25.19 | |
| | 5310 | 62 | AVG | 242T | 13.75 | 13.56 | 23.47 | -9.72 | -11.70 | 2.05 | 29.47 | -27.42 | |
| | 5510 | 102 | AVG | 242T | 13.92 | 13.90 | 22.80 | -8.88 | -8.20 | 5.72 | 28.80 | -23.08 | |
| | 5590 | 118 | AVG | 242T | 16.15 | 16.06 | 22.80 | -6.65 | -8.20 | 7.95 | 28.80 | -20.85 | |
| | 5710 | 142 | AVG | 242T | 15.94 | 15.88 | 22.80 | -6.86 | -8.20 | 7.74 | 28.80 | -21.06 | |
| | 5755 | 151 | AVG | 242T | 15.93 | 15.87 | 30.00 | -14.07 | 0.30 | 16.23 | - | - | |
| | 5795 | 159 | AVG | 242T | 16.18 | 16.02 | 30.00 | -13.82 | 0.30 | 16.48 | - | - | |

Table 7-35. SISO ANT2 40MHz BW (UNII) Maximum Conducted Output Power (242 Tones)

| 5GHz (80MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] | Ant. Gain [dBi] | Max e.i.r.p. [dBm] | Max e.i.r.p. Limit [dBm] | e.i.r.p. Margin [dB] | |
|------------------------|------------|---------|----------|-------|----------|-------|-------|-----------------------------|-----------------------------|-----------------|--------------------|--------------------------|----------------------|--|
| | | | | | | 61 | 62 | 64 | | | | | | |
| | | | | | | | | | | | | | | |
| | 5210 | 42 | AVG | 242T | 14.31 | 14.49 | 14.26 | 23.98 | -9.49 | -13.40 | 1.09 | 22.39 | -21.30 | |
| | 5290 | 58 | AVG | 242T | 12.29 | 12.37 | 11.88 | 23.47 | -11.10 | -11.70 | 0.67 | 29.47 | -28.80 | |
| | 5530 | 106 | AVG | 242T | 13.65 | 13.87 | 13.65 | 22.80 | -8.93 | -8.20 | 5.67 | 28.80 | -23.13 | |
| | 5610 | 122 | AVG | 242T | 16.39 | 16.37 | 16.40 | 22.80 | -6.40 | -8.20 | 8.20 | 28.80 | -20.60 | |
| | 5690 | 138 | AVG | 242T | 16.34 | 16.26 | 16.23 | 22.80 | -6.46 | -8.20 | 8.14 | 28.80 | -20.66 | |
| | 5775 | 155 | AVG | 242T | 16.27 | 16.18 | 16.26 | 30.00 | -13.73 | 0.30 | 16.57 | - | - | |

Table 7-36. SISO ANT2 80MHz BW (UNII) Maximum Conducted Output Power (242 Tones)

| | | | | | |
|---|---|---------------------------------------|--|---|---------------------------------|
| FCC ID: A3LSMF707U |  | MEASUREMENT REPORT (CERTIFICATION) | |  | Approved by: Quality Manager |
| Test Report S/N: 1M2005040080-08.A3L | Test Dates: 05/04 - 07/06/2020 | EUT Type: Portable Handset | | Page 90 of 271 | |

SISO Antenna-2 Conducted Output Power Measurements (484 Tones)

| 5GHz (40MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | Conducted Power Limit [dBm] | Conducted Power Margin [dB] | Ant. Gain [dBi] | Max e.i.r.p. [dBm] | Max e.i.r.p. Limit [dBm] | e.i.r.p. Margin [dB] | |
|------------------------|------------|---------|----------|-------|----------|-----------------------------|-----------------------------|-----------------|--------------------|--------------------------|----------------------|--|
| | | | | | | 65 | | | | | | |
| | 5190 | 38 | AVG | 484T | 14.58 | 23.98 | -9.40 | -13.40 | 1.18 | 22.39 | -21.21 | |
| | 5230 | 46 | AVG | 484T | 15.61 | 23.98 | -8.37 | -11.70 | 3.91 | 22.39 | -18.48 | |
| | 5270 | 54 | AVG | 484T | 15.49 | 23.47 | -7.98 | -11.70 | 3.79 | 29.47 | -25.68 | |
| | 5310 | 62 | AVG | 484T | 13.68 | 23.47 | -9.79 | -11.70 | 1.98 | 29.47 | -27.49 | |
| | 5510 | 102 | AVG | 484T | 13.93 | 22.80 | -8.87 | -8.20 | 5.73 | 28.80 | -23.07 | |
| | 5590 | 118 | AVG | 484T | 15.77 | 22.80 | -7.03 | -8.20 | 7.57 | 28.80 | -21.23 | |
| | 5710 | 142 | AVG | 484T | 15.63 | 22.80 | -7.17 | -8.20 | 7.43 | 28.80 | -21.37 | |
| | 5755 | 151 | AVG | 484T | 15.59 | 30.00 | -14.41 | 0.30 | 15.89 | - | - | |
| 5795 | 159 | AVG | 484T | 15.77 | 30.00 | -14.23 | 0.30 | 16.07 | - | - | | |

Table 7-37. SISO ANT2 40MHz BW (UNII) Maximum Conducted Output Power (484 Tones)

| 5GHz (80MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] | Ant. Gain [dBi] | Max e.i.r.p. [dBm] | Max e.i.r.p. Limit [dBm] | e.i.r.p. Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-----------------------------|-----------------------------|-----------------|--------------------|--------------------------|----------------------|
| | | | | | 65 | 66 | | | | | | |
| | 5210 | 42 | AVG | 484T | 14.32 | 14.37 | 23.98 | -9.61 | -13.40 | 0.97 | 22.39 | -21.42 |
| 5290 | 58 | AVG | 484T | 12.25 | 12.04 | 23.47 | -11.22 | -11.70 | 0.55 | 29.47 | -28.92 | |
| 5530 | 106 | AVG | 484T | 13.70 | 13.72 | 22.80 | -9.08 | -8.20 | 5.52 | 28.80 | -23.28 | |
| 5610 | 122 | AVG | 484T | 15.81 | 15.93 | 22.80 | -6.87 | -8.20 | 7.73 | 28.80 | -21.07 | |
| 5690 | 138 | AVG | 484T | 15.89 | 15.59 | 22.80 | -6.91 | -8.20 | 7.69 | 28.80 | -21.11 | |
| 5775 | 155 | AVG | 484T | 15.71 | 15.84 | 30.00 | -14.16 | 0.30 | 16.14 | - | - | |

Table 7-38. SISO ANT2 80MHz BW (UNII) Maximum Conducted Output Power (484 Tones)

| | | | | |
|---|---|---------------------------------------|---|---------------------------------|
| FCC ID: A3LSMF707U |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M2005040080-08.A3L | Test Dates: 05/04 - 07/06/2020 | EUT Type: Portable Handset | Page 91 of 271 | |

SISO Antenna-2 Conducted Output Power Measurements (996 Tones)

| 5GHz (80MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | Conducted Power Limit [dBm] | Conducted Power Margin [dB] | Ant. Gain [dBi] | Max e.i.r.p. [dBm] | Max e.i.r.p. Limit [dBm] | e.i.r.p. Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-----------------------------|-----------------------------|-----------------|--------------------|--------------------------|----------------------|
| | | | | | | 67 | | | | | |
| | 5210 | 42 | AVG | 996T | 14.17 | 23.98 | -9.81 | -13.40 | 0.77 | 22.39 | -21.62 |
| | 5290 | 58 | AVG | 996T | 12.01 | 23.47 | -11.46 | -11.70 | 0.31 | 29.47 | -29.16 |
| | 5530 | 106 | AVG | 996T | 13.56 | 22.80 | -9.24 | -8.20 | 5.36 | 28.80 | -23.44 |
| | 5610 | 122 | AVG | 996T | 14.63 | 22.80 | -8.17 | -8.20 | 6.43 | 28.80 | -22.37 |
| | 5690 | 138 | AVG | 996T | 14.64 | 22.80 | -8.16 | -8.20 | 6.44 | 28.80 | -22.36 |
| | 5775 | 155 | AVG | 996T | 14.59 | 30.00 | -15.41 | 0.30 | 14.89 | - | - |

Table 7-39. SISO ANT2 80MHz BW (UNII) Maximum Conducted Output Power (996 Tones)

| | | | | |
|---|---|---------------------------------------|---|---------------------------------|
| FCC ID: A3LSMF707U |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M2005040080-08.A3L | Test Dates: 05/04 - 07/06/2020 | EUT Type: Portable Handset | Page 92 of 271 | |

MIMO Maximum Conducted Output Power Measurements (26 Tones)

| 5GHz (20MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | | | | | | | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] | Directional Ant. Gain [dBi] | Max e.i.r.p. [dBm] | Max e.i.r.p. Limit [dBm] | e.i.r.p. Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|------|-------|------|------|-------|------|------|-------|-----------------------------|-----------------------------|-----------------------------|--------------------|--------------------------|----------------------|
| | | | | | 0 | | | 4 | | | 8 | | | | | | | | |
| | | | | | ANT1 | ANT2 | MIMO | ANT1 | ANT2 | MIMO | ANT1 | ANT2 | MIMO | | | | | | |
| 5180 | 36 | AVG | 26T | | 9.54 | 9.40 | 12.48 | 9.20 | 9.72 | 12.48 | 8.64 | 9.19 | 11.93 | 23.98 | -11.50 | -6.27 | 6.21 | 22.39 | -16.18 |
| 5200 | 40 | AVG | 26T | | 9.21 | 9.13 | 12.18 | 9.09 | 9.22 | 12.17 | 8.85 | 9.44 | 12.17 | 23.98 | -11.80 | -6.27 | 5.91 | 22.39 | -16.48 |
| 5240 | 48 | AVG | 26T | | 9.25 | 9.69 | 12.49 | 9.12 | 9.01 | 12.08 | 9.30 | 9.64 | 12.48 | 23.98 | -11.49 | -5.51 | 6.97 | 22.39 | -15.42 |
| 5260 | 52 | AVG | 26T | | 9.40 | 8.90 | 12.17 | 9.30 | 9.08 | 12.20 | 9.07 | 9.06 | 12.06 | 23.47 | -11.27 | -5.51 | 6.69 | 29.47 | -22.78 |
| 5280 | 56 | AVG | 26T | | 9.54 | 9.07 | 12.32 | 9.33 | 9.34 | 12.35 | 9.13 | 9.42 | 12.29 | 23.47 | -11.12 | -5.51 | 6.83 | 29.47 | -22.64 |
| 5320 | 64 | AVG | 26T | | 9.34 | 9.11 | 12.24 | 9.20 | 9.33 | 12.28 | 8.95 | 9.43 | 12.21 | 23.47 | -11.19 | -5.51 | 6.76 | 29.47 | -22.71 |
| 5500 | 100 | AVG | 26T | | 9.77 | 8.92 | 12.38 | 9.46 | 9.31 | 12.40 | 9.24 | 9.38 | 12.32 | 22.80 | -10.40 | -4.08 | 8.32 | 28.80 | -20.48 |
| 5600 | 120 | AVG | 26T | | 9.55 | 9.01 | 12.30 | 9.30 | 9.21 | 12.27 | 9.07 | 9.04 | 12.07 | 22.80 | -10.50 | -4.08 | 8.22 | 28.80 | -20.58 |
| 5720 | 144 | AVG | 26T | | 9.78 | 8.85 | 12.35 | 9.56 | 9.13 | 12.36 | 9.32 | 9.11 | 12.23 | 22.80 | -10.44 | -4.08 | 8.28 | 28.80 | -20.52 |
| 5745 | 149 | AVG | 26T | | 9.53 | 9.10 | 12.33 | 9.29 | 9.47 | 12.39 | 8.99 | 9.58 | 12.31 | 30.00 | -17.61 | 0.75 | 13.14 | - | - |
| 5785 | 157 | AVG | 26T | | 9.77 | 9.02 | 12.42 | 9.48 | 9.31 | 12.41 | 9.31 | 9.29 | 12.31 | 30.00 | -17.58 | 0.75 | 13.17 | - | - |
| 5825 | 165 | AVG | 26T | | 9.65 | 9.02 | 12.36 | 9.27 | 9.48 | 12.39 | 9.15 | 9.44 | 12.31 | 30.00 | -17.61 | 0.75 | 13.14 | - | - |

Table 7-40. MIMO 20MHz BW (UNII) Maximum Conducted Output Power (26 Tones)

| 5GHz (40MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | | | | | | | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] | Directional Ant. Gain [dBi] | Max e.i.r.p. [dBm] | Max e.i.r.p. Limit [dBm] | e.i.r.p. Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|------|-------|------|------|-------|------|------|-------|-----------------------------|-----------------------------|-----------------------------|--------------------|--------------------------|----------------------|
| | | | | | 0 | | | 8 | | | 17 | | | | | | | | |
| | | | | | ANT1 | ANT2 | MIMO | ANT1 | ANT2 | MIMO | ANT1 | ANT2 | MIMO | | | | | | |
| 5190 | 38 | AVG | 26T | | 9.15 | 8.89 | 12.03 | 8.92 | 9.05 | 12.00 | 8.90 | 9.81 | 12.39 | 23.98 | -11.59 | -6.27 | 6.12 | 22.39 | -16.27 |
| 5230 | 46 | AVG | 26T | | 9.81 | 9.03 | 12.45 | 9.43 | 9.05 | 12.25 | 9.20 | 9.15 | 12.19 | 23.98 | -11.53 | -5.51 | 6.94 | 22.39 | -15.45 |
| 5270 | 54 | AVG | 26T | | 9.69 | 8.84 | 12.30 | 9.22 | 8.94 | 12.09 | 9.32 | 9.49 | 12.42 | 23.47 | -11.05 | -5.51 | 6.90 | 29.47 | -22.57 |
| 5310 | 62 | AVG | 26T | | 9.65 | 9.04 | 12.37 | 9.08 | 9.18 | 12.14 | 8.84 | 9.01 | 11.94 | 23.47 | -11.10 | -5.51 | 6.85 | 29.47 | -22.62 |
| 5510 | 102 | AVG | 26T | | 9.94 | 8.74 | 12.39 | 9.41 | 9.10 | 12.27 | 9.06 | 9.05 | 12.07 | 22.80 | -10.41 | -4.08 | 8.32 | 28.80 | -20.48 |
| 5590 | 118 | AVG | 26T | | 9.70 | 8.61 | 12.20 | 9.68 | 9.17 | 12.44 | 9.26 | 9.24 | 12.26 | 22.80 | -10.36 | -4.08 | 8.37 | 28.80 | -20.43 |
| 5710 | 142 | AVG | 26T | | 9.64 | 8.34 | 12.05 | 9.54 | 8.89 | 12.24 | 9.10 | 8.92 | 12.02 | 22.80 | -10.56 | -4.08 | 8.16 | 28.80 | -20.64 |
| 5755 | 151 | AVG | 26T | | 9.49 | 8.61 | 12.08 | 9.42 | 9.12 | 12.28 | 8.76 | 9.39 | 12.10 | 30.00 | -17.72 | 0.75 | 13.04 | - | - |
| 5795 | 159 | AVG | 26T | | 9.64 | 8.31 | 12.04 | 9.51 | 8.90 | 12.23 | 9.43 | 9.37 | 12.41 | 30.00 | -17.59 | 0.75 | 13.16 | - | - |

Table 7-41. MIMO 40MHz BW (UNII) Maximum Conducted Output Power (26 Tones)

| 5GHz (80MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | | | | | | | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] | Directional Ant. Gain [dBi] | Max e.i.r.p. [dBm] | Max e.i.r.p. Limit [dBm] | e.i.r.p. Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|------|-------|------|------|-------|------|------|-------|-----------------------------|-----------------------------|-----------------------------|--------------------|--------------------------|----------------------|
| | | | | | 0 | | | 18 | | | 36 | | | | | | | | |
| | | | | | ANT1 | ANT2 | MIMO | ANT1 | ANT2 | MIMO | ANT1 | ANT2 | MIMO | | | | | | |
| 5210 | 42 | AVG | 26T | | 9.53 | 8.67 | 12.13 | 9.09 | 8.88 | 12.00 | 9.44 | 9.27 | 12.37 | 23.98 | -11.61 | -6.27 | 6.09 | 22.39 | -16.30 |
| 5290 | 58 | AVG | 26T | | 9.75 | 8.80 | 12.31 | 9.71 | 9.17 | 12.46 | 9.34 | 9.60 | 12.48 | 23.47 | -10.99 | -5.51 | 6.97 | 29.47 | -22.50 |
| 5530 | 106 | AVG | 26T | | 10.00 | 8.73 | 12.42 | 9.71 | 9.14 | 12.44 | 9.12 | 9.04 | 12.09 | 22.80 | -10.36 | -4.08 | 8.37 | 28.80 | -20.43 |
| 5610 | 122 | AVG | 26T | | 9.70 | 8.76 | 12.27 | 9.08 | 9.06 | 12.08 | 8.90 | 9.32 | 12.13 | 22.80 | -10.53 | -4.08 | 8.19 | 28.80 | -20.61 |
| 5690 | 138 | AVG | 26T | | 9.82 | 8.65 | 12.28 | 9.31 | 8.79 | 12.07 | 9.24 | 9.57 | 12.42 | 22.80 | -10.38 | -4.08 | 8.34 | 28.80 | -20.46 |
| 5775 | 155 | AVG | 26T | | 9.82 | 8.65 | 12.28 | 9.20 | 9.01 | 12.12 | 9.11 | 9.69 | 12.42 | 30.00 | -17.58 | 0.75 | 13.17 | - | - |

Table 7-42. MIMO 80MHz BW (UNII) Maximum Conducted Output Power (26 Tones)

MIMO Conducted Output Power Measurements (52 Tones)

| 5GHz (20MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | | | | | | | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] | Directional Ant. Gain [dBi] | Max e.i.r.p. [dBm] | Max e.i.r.p. Limit [dBm] | e.i.r.p. Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------------------|-----------------------------|-----------------------------|--------------------|--------------------------|----------------------|
| | | | | | 37 | | | 39 | | | 40 | | | | | | | | |
| | | | | | ANT1 | ANT2 | MIMO | ANT1 | ANT2 | MIMO | ANT1 | ANT2 | MIMO | | | | | | |
| 5180 | 36 | AVG | 52T | | 11.93 | 11.99 | 14.97 | 11.81 | 12.28 | 15.06 | 11.88 | 12.07 | 14.99 | 23.98 | -8.92 | -6.27 | 8.79 | 22.39 | -13.60 |
| 5200 | 40 | AVG | 52T | | 12.23 | 11.94 | 15.10 | 12.08 | 12.19 | 15.15 | 12.15 | 12.05 | 15.11 | 23.98 | -8.83 | -6.27 | 8.87 | 22.39 | -13.52 |
| 5240 | 48 | AVG | 52T | | 12.33 | 11.70 | 15.04 | 12.22 | 11.98 | 15.11 | 12.26 | 11.72 | 15.01 | 23.98 | -8.87 | -5.51 | 9.60 | 22.39 | -12.79 |
| 5260 | 52 | AVG | 52T | | 12.45 | 11.82 | 15.16 | 12.35 | 12.07 | 15.22 | 12.42 | 11.75 | 15.11 | 23.47 | -8.25 | -5.51 | 9.71 | 29.47 | -19.76 |
| 5280 | 56 | AVG | 52T | | 12.63 | 11.93 | 15.30 | 12.50 | 12.15 | 15.34 | 12.52 | 11.87 | 15.22 | 23.47 | -8.13 | -5.51 | 9.83 | 29.47 | -19.64 |
| 5320 | 64 | AVG | 52T | | 12.47 | 11.83 | 15.17 | 12.24 | 12.12 | 15.19 | 12.36 | 11.82 | 15.11 | 23.47 | -8.28 | -5.51 | 9.68 | 29.47 | -19.79 |
| 5500 | 100 | AVG | 52T | | 12.61 | 11.78 | 15.23 | 12.35 | 12.07 | 15.22 | 12.40 | 11.77 | 15.11 | 22.80 | -7.57 | -4.08 | 11.15 | 28.80 | -17.65 |
| 5600 | 120 | AVG | 52T | | 12.40 | 11.84 | 15.14 | 12.10 | 12.02 | 15.07 | 12.54 | 12.22 | 15.39 | 22.80 | -7.41 | -4.08 | 11.32 | 28.80 | -17.48 |
| 5720 | 144 | AVG | 52T | | 12.68 | 11.69 | 15.22 | 12.42 | 12.01 | 15.23 | 12.45 | 11.74 | 15.12 | 22.80 | -7.57 | -4.08 | 11.15 | 28.80 | -17.65 |
| 5745 | 149 | AVG | 52T | | 12.36 | 12.07 | 15.23 | 12.08 | 12.37 | 15.24 | 12.20 | 12.08 | 15.14 | 30.00 | -14.78 | 0.75 | 15.99 | - | - |
| 5785 | 157 | AVG | 52T | | 12.67 | 11.86 | 15.29 | 12.42 | 12.15 | 15.30 | 12.46 | 11.88 | 15.18 | 30.00 | -14.70 | 0.75 | 16.05 | - | - |
| 5825 | 165 | AVG | 52T | | 12.45 | 11.92 | 15.20 | 12.18 | 12.15 | 15.18 | 12.28 | 11.83 | 15.07 | 30.00 | -14.80 | 0.75 | 15.96 | - | - |

Table 7-43. MIMO 20MHz BW (UNII) Maximum Conducted Output Power (52 Tones)

| 5GHz (40MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | | | | | | | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] | Directional Ant. Gain [dBi] | Max e.i.r.p. [dBm] | Max e.i.r.p. Limit [dBm] | e.i.r.p. Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------------------|-----------------------------|-----------------------------|--------------------|--------------------------|----------------------|
| | | | | | 37 | | | 40 | | | 44 | | | | | | | | |
| | | | | | ANT1 | ANT2 | MIMO | ANT1 | ANT2 | MIMO | ANT1 | ANT2 | MIMO | | | | | | |
| 5190 | 38 | AVG | 52T | | 12.11 | 11.88 | 15.01 | 12.69 | 12.23 | 15.48 | 11.87 | 12.17 | 15.03 | 23.98 | -8.50 | -6.27 | 9.20 | 22.39 | -13.19 |
| 5230 | 46 | AVG | 52T | | 12.66 | 11.94 | 15.33 | 12.63 | 11.65 | 15.18 | 12.45 | 12.13 | 15.30 | 23.98 | -8.65 | -5.51 | 9.81 | 22.39 | -12.58 |
| 5270 | 54 | AVG | 52T | | 12.60 | 11.80 | 15.23 | 12.94 | 11.95 | 15.48 | 12.16 | 12.05 | 15.12 | 23.47 | -7.99 | -5.51 | 9.97 | 29.47 | -19.50 |
| 5310 | 62 | AVG | 52T | | 12.50 | 11.92 | 15.23 | 12.71 | 12.19 | 15.47 | 12.08 | 12.08 | 15.09 | 23.47 | -8.00 | -5.51 | 9.96 | 29.47 | -19.51 |
| 5510 | 102 | AVG | 52T | | 12.81 | 11.64 | 15.27 | 12.99 | 11.89 | 15.49 | 12.05 | 11.92 | 15.00 | 22.80 | -7.31 | -4.08 | 11.41 | 28.80 | -17.39 |
| 5590 | 118 | AVG | 52T | | 12.50 | 11.62 | 15.09 | 12.73 | 11.67 | 15.24 | 12.19 | 11.96 | 15.09 | 22.80 | -7.56 | -4.08 | 11.17 | 28.80 | -17.63 |
| 5710 | 142 | AVG | 52T | | 12.86 | 11.58 | 15.28 | 12.56 | 11.41 | 15.03 | 12.12 | 11.92 | 15.03 | 22.80 | -7.52 | -4.08 | 11.20 | 28.80 | -17.60 |
| 5755 | 151 | AVG | 52T | | 12.63 | 11.79 | 15.24 | 12.84 | 12.08 | 15.49 | 12.00 | 12.14 | 15.08 | 30.00 | -14.51 | 0.75 | 16.24 | - | - |
| 5795 | 159 | AVG | 52T | | 12.73 | 11.76 | 15.28 | 12.51 | 11.51 | 15.05 | 12.16 | 11.92 | 15.05 | 30.00 | -14.72 | 0.75 | 16.03 | - | - |

Table 7-44. MIMO 40MHz BW (UNII) Maximum Conducted Output Power (52 Tones)

| 5GHz (80MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | | | | | | | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] | Directional Ant. Gain [dBi] | Max e.i.r.p. [dBm] | Max e.i.r.p. Limit [dBm] | e.i.r.p. Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------------------|-----------------------------|-----------------------------|--------------------|--------------------------|----------------------|
| | | | | | 37 | | | 44 | | | 52 | | | | | | | | |
| | | | | | ANT1 | ANT2 | MIMO | ANT1 | ANT2 | MIMO | ANT1 | ANT2 | MIMO | | | | | | |
| 5210 | 42 | AVG | 52T | | 12.35 | 11.75 | 15.07 | 12.28 | 12.49 | 15.40 | 12.20 | 11.95 | 15.09 | 23.98 | -8.58 | -6.27 | 9.12 | 22.39 | -13.27 |
| 5290 | 58 | AVG | 52T | | 12.63 | 11.87 | 15.28 | 12.32 | 12.48 | 15.41 | 12.17 | 11.88 | 15.04 | 23.47 | -8.06 | -5.51 | 9.90 | 29.47 | -19.57 |
| 5530 | 106 | AVG | 52T | | 12.82 | 11.45 | 15.20 | 12.09 | 12.10 | 15.11 | 12.41 | 12.35 | 15.39 | 22.80 | -7.41 | -4.08 | 11.31 | 28.80 | -17.49 |
| 5610 | 122 | AVG | 52T | | 12.75 | 12.18 | 15.48 | 12.02 | 12.41 | 15.23 | 12.38 | 12.37 | 15.39 | 22.80 | -7.32 | -4.08 | 11.41 | 28.80 | -17.39 |
| 5690 | 138 | AVG | 52T | | 12.42 | 11.45 | 14.97 | 12.23 | 12.43 | 15.34 | 12.20 | 12.31 | 15.27 | 22.80 | -7.46 | -4.08 | 11.27 | 28.80 | -17.53 |
| 5775 | 155 | AVG | 52T | | 12.87 | 11.83 | 15.39 | 12.25 | 12.48 | 15.38 | 12.36 | 12.50 | 15.44 | 30.00 | -14.56 | 0.75 | 16.19 | - | - |

Table 7-45. MIMO 80MHz BW (UNII) Maximum Conducted Output Power (52 Tones)

MIMO Conducted Output Power Measurements (106 Tones)

| 5GHz (20MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | | | | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] | Directional Ant. Gain [dBi] | Max e.i.r.p. [dBm] | Max e.i.r.p. Limit [dBm] | e.i.r.p. Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-------|-------|-------|-------|-----------------------------|-----------------------------|-----------------------------|--------------------|--------------------------|----------------------|
| | | | | | 53 | | | 54 | | | | | | | | |
| | | | | | ANT1 | ANT2 | MIMO | ANT1 | ANT2 | MIMO | | | | | | |
| 5180 | 36 | AVG | 106T | 14.88 | 14.97 | 17.94 | 14.73 | 14.99 | 17.87 | 23.98 | -6.04 | -6.27 | 11.66 | 22.39 | -10.73 | |
| 5200 | 40 | AVG | 106T | 14.62 | 14.96 | 17.80 | 14.68 | 14.95 | 17.83 | 23.98 | -6.15 | -6.27 | 11.56 | 22.39 | -10.83 | |
| 5240 | 48 | AVG | 106T | 14.73 | 14.89 | 17.82 | 14.66 | 14.87 | 17.78 | 23.98 | -6.16 | -5.51 | 12.31 | 22.39 | -10.08 | |
| 5260 | 52 | AVG | 106T | 14.78 | 14.95 | 17.88 | 14.85 | 14.92 | 17.90 | 23.47 | -5.57 | -5.51 | 12.38 | 29.47 | -17.09 | |
| 5280 | 56 | AVG | 106T | 14.69 | 14.98 | 17.85 | 14.95 | 14.99 | 17.98 | 23.47 | -5.49 | -5.51 | 12.47 | 29.47 | -17.00 | |
| 5320 | 64 | AVG | 106T | 14.61 | 14.96 | 17.80 | 14.66 | 14.99 | 17.84 | 23.47 | -5.63 | -5.51 | 12.33 | 29.47 | -17.14 | |
| 5500 | 100 | AVG | 106T | 14.70 | 14.62 | 17.67 | 14.63 | 14.97 | 17.81 | 22.80 | -4.99 | -4.08 | 13.74 | 28.80 | -15.06 | |
| 5600 | 120 | AVG | 106T | 14.97 | 14.97 | 17.98 | 14.89 | 14.93 | 17.92 | 22.80 | -4.82 | -4.08 | 13.90 | 28.80 | -14.90 | |
| 5720 | 144 | AVG | 106T | 14.79 | 14.96 | 17.89 | 14.74 | 14.98 | 17.87 | 22.80 | -4.91 | -4.08 | 13.81 | 28.80 | -14.99 | |
| 5745 | 149 | AVG | 106T | 14.97 | 14.88 | 17.94 | 14.81 | 14.76 | 17.80 | 30.00 | -12.06 | 0.75 | 18.69 | - | - | |
| 5785 | 157 | AVG | 106T | 14.74 | 14.92 | 17.84 | 14.66 | 14.85 | 17.77 | 30.00 | -12.16 | 0.75 | 18.60 | - | - | |
| 5825 | 165 | AVG | 106T | 14.69 | 14.99 | 17.85 | 14.58 | 14.97 | 17.79 | 30.00 | -12.15 | 0.75 | 18.61 | - | - | |

Table 7-46. MIMO 20MHz BW (UNII) Maximum Conducted Output Power (106 Tones)

| 5GHz (40MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | | | | | | | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] | Directional Ant. Gain [dBi] | Max e.i.r.p. [dBm] | Max e.i.r.p. Limit [dBm] | e.i.r.p. Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------------------|-----------------------------|-----------------------------|--------------------|--------------------------|----------------------|
| | | | | | 53 | | | 54 | | | 56 | | | | | | | | |
| | | | | | ANT1 | ANT2 | MIMO | ANT1 | ANT2 | MIMO | ANT1 | ANT2 | MIMO | | | | | | |
| 5190 | 38 | AVG | 106T | 14.34 | 14.80 | 17.59 | 14.65 | 15.19 | 17.94 | 14.57 | 14.62 | 17.61 | 23.98 | -6.04 | -6.27 | 11.67 | 22.39 | -10.72 | |
| 5230 | 46 | AVG | 106T | 14.84 | 14.84 | 17.85 | 14.89 | 14.49 | 17.60 | 14.95 | 14.52 | 17.75 | 23.98 | -6.13 | -5.51 | 12.34 | 22.39 | -10.05 | |
| 5270 | 54 | AVG | 106T | 14.77 | 14.88 | 17.84 | 15.04 | 14.88 | 17.97 | 14.82 | 14.61 | 17.73 | 23.47 | -5.50 | -5.51 | 12.46 | 29.47 | -17.01 | |
| 5310 | 62 | AVG | 106T | 14.74 | 14.83 | 17.80 | 14.95 | 14.99 | 17.98 | 14.71 | 14.85 | 17.79 | 23.47 | -5.49 | -5.51 | 12.47 | 29.47 | -17.00 | |
| 5510 | 102 | AVG | 106T | 14.89 | 14.35 | 17.64 | 15.01 | 14.56 | 17.80 | 14.61 | 14.42 | 17.53 | 22.80 | -5.00 | -4.08 | 13.72 | 28.80 | -15.08 | |
| 5590 | 118 | AVG | 106T | 14.68 | 14.50 | 17.60 | 14.83 | 14.51 | 17.68 | 14.91 | 14.35 | 17.65 | 22.80 | -5.12 | -4.08 | 13.61 | 28.80 | -15.19 | |
| 5710 | 142 | AVG | 106T | 14.60 | 14.12 | 17.32 | 14.76 | 14.23 | 17.51 | 14.61 | 14.42 | 17.53 | 22.80 | -5.27 | -4.08 | 13.45 | 28.80 | -15.35 | |
| 5755 | 151 | AVG | 106T | 14.61 | 14.70 | 17.67 | 14.99 | 14.81 | 17.91 | 14.52 | 14.73 | 17.64 | 30.00 | -12.09 | 0.75 | 18.66 | - | - | |
| 5795 | 159 | AVG | 106T | 14.83 | 14.57 | 17.71 | 15.02 | 14.81 | 17.93 | 14.65 | 14.37 | 17.52 | 30.00 | -12.07 | 0.75 | 18.68 | - | - | |

Table 7-47. MIMO 40MHz BW (UNII) Maximum Conducted Output Power (106 Tones)

| 5GHz (80MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | | | | | | | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] | Directional Ant. Gain [dBi] | Max e.i.r.p. [dBm] | Max e.i.r.p. Limit [dBm] | e.i.r.p. Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------------------|-----------------------------|-----------------------------|--------------------|--------------------------|----------------------|
| | | | | | 53 | | | 56 | | | 60 | | | | | | | | |
| | | | | | ANT1 | ANT2 | MIMO | ANT1 | ANT2 | MIMO | ANT1 | ANT2 | MIMO | | | | | | |
| 5210 | 42 | AVG | 106T | 14.75 | 14.60 | 17.69 | 14.51 | 14.96 | 17.75 | 14.91 | 14.55 | 17.74 | 23.98 | -6.23 | -6.27 | 11.48 | 22.39 | -10.91 | |
| 5290 | 58 | AVG | 106T | 14.90 | 14.58 | 17.75 | 14.95 | 14.76 | 17.87 | 14.76 | 14.73 | 17.76 | 23.47 | -5.60 | -5.51 | 12.35 | 29.47 | -17.12 | |
| 5530 | 106 | AVG | 106T | 14.80 | 14.71 | 17.77 | 14.82 | 15.11 | 17.98 | 14.82 | 14.65 | 17.75 | 22.80 | -4.82 | -4.08 | 13.90 | 28.80 | -14.90 | |
| 5610 | 122 | AVG | 106T | 14.69 | 14.88 | 17.80 | 14.94 | 14.90 | 17.93 | 14.90 | 14.70 | 17.81 | 22.80 | -4.87 | -4.08 | 13.85 | 28.80 | -14.95 | |
| 5690 | 138 | AVG | 106T | 14.63 | 14.70 | 17.68 | 14.76 | 14.91 | 17.85 | 14.51 | 15.13 | 17.84 | 22.80 | -4.95 | -4.08 | 13.77 | 28.80 | -15.03 | |
| 5775 | 155 | AVG | 106T | 14.86 | 14.91 | 17.90 | 14.85 | 14.96 | 17.92 | 14.99 | 14.66 | 17.84 | 30.00 | -12.08 | 0.75 | 18.67 | - | - | |

Table 7-48. MIMO 80MHz BW (UNII) Maximum Conducted Output Power (106 Tones)

| | | | | |
|---|---|---------------------------------------|---|---------------------------------|
| FCC ID: A3LSMF707U |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M2005040080-08.A3L | Test Dates: 05/04 - 07/06/2020 | EUT Type: Portable Handset | | Page 95 of 271 |

MIMO Conducted Output Power Measurements (242 Tones)

| 5GHz (20MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] | Directional Ant. Gain [dBi] | Max e.i.r.p. [dBm] | Max e.i.r.p. Limit [dBm] | e.i.r.p. Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-------|-----------------------------|-----------------------------|-----------------------------|--------------------|--------------------------|----------------------|
| | | | | | 61 | | | | | | | | |
| | | | | | ANT1 | ANT2 | MIMO | | | | | | |
| 5180 | 36 | AVG | 242T | 15.74 | 15.94 | 18.85 | 23.98 | -5.13 | -6.27 | 12.58 | 22.39 | -9.81 | |
| 5200 | 40 | AVG | 242T | 15.86 | 15.96 | 18.92 | 23.98 | -5.06 | -6.27 | 12.65 | 22.39 | -9.74 | |
| 5240 | 48 | AVG | 242T | 15.77 | 15.79 | 18.79 | 23.98 | -5.19 | -5.51 | 13.28 | 22.39 | -9.11 | |
| 5260 | 52 | AVG | 242T | 15.96 | 15.92 | 18.95 | 23.47 | -4.52 | -5.51 | 13.44 | 29.47 | -16.03 | |
| 5280 | 56 | AVG | 242T | 15.99 | 15.99 | 19.00 | 23.47 | -4.47 | -5.51 | 13.49 | 29.47 | -15.98 | |
| 5320 | 64 | AVG | 242T | 15.78 | 15.96 | 18.88 | 23.47 | -4.59 | -5.51 | 13.37 | 29.47 | -16.10 | |
| 5500 | 100 | AVG | 242T | 15.77 | 15.93 | 18.86 | 22.80 | -3.94 | -4.08 | 14.78 | 28.80 | -14.02 | |
| 5600 | 120 | AVG | 242T | 15.91 | 15.97 | 18.95 | 22.80 | -3.85 | -4.08 | 14.87 | 28.80 | -13.93 | |
| 5720 | 144 | AVG | 242T | 15.70 | 15.92 | 18.82 | 22.80 | -3.98 | -4.08 | 14.75 | 28.80 | -14.05 | |
| 5745 | 149 | AVG | 242T | 15.98 | 15.98 | 18.99 | 30.00 | -11.01 | 0.75 | 19.74 | - | - | |
| 5785 | 157 | AVG | 242T | 15.89 | 15.76 | 18.84 | 30.00 | -11.16 | 0.75 | 19.59 | - | - | |
| 5825 | 165 | AVG | 242T | 15.73 | 15.97 | 18.86 | 30.00 | -11.14 | 0.75 | 19.61 | - | - | |

Table 7-49. MIMO 20MHz BW (UNII) Maximum Conducted Output Power (242 Tones)

| 5GHz (40MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | | | | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] | Directional Ant. Gain [dBi] | Max e.i.r.p. [dBm] | Max e.i.r.p. Limit [dBm] | e.i.r.p. Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-------|-------|-------|-------|-----------------------------|-----------------------------|-----------------------------|--------------------|--------------------------|----------------------|
| | | | | | 61 | | | 62 | | | | | | | | |
| | | | | | ANT1 | ANT2 | MIMO | ANT1 | ANT2 | MIMO | | | | | | |
| 5190 | 38 | AVG | 242T | 14.62 | 14.64 | 17.64 | 14.64 | 14.58 | 17.62 | 23.98 | -6.34 | -6.27 | 11.37 | 22.39 | -11.02 | |
| 5230 | 46 | AVG | 242T | 16.45 | 16.05 | 19.26 | 16.46 | 15.98 | 19.24 | 23.98 | -4.71 | -5.51 | 13.75 | 22.39 | -8.64 | |
| 5270 | 54 | AVG | 242T | 16.43 | 15.98 | 19.22 | 16.43 | 15.96 | 19.21 | 23.47 | -4.25 | -5.51 | 13.71 | 29.47 | -15.76 | |
| 5310 | 62 | AVG | 242T | 13.51 | 13.75 | 16.64 | 13.40 | 13.56 | 16.49 | 23.47 | -6.83 | -5.51 | 11.13 | 29.47 | -18.34 | |
| 5510 | 102 | AVG | 242T | 13.54 | 13.92 | 16.74 | 13.31 | 13.90 | 16.63 | 22.80 | -6.06 | -4.08 | 12.67 | 28.80 | -16.13 | |
| 5590 | 118 | AVG | 242T | 16.47 | 16.15 | 19.32 | 16.38 | 16.06 | 19.23 | 22.80 | -3.48 | -4.08 | 15.25 | 28.80 | -13.55 | |
| 5710 | 142 | AVG | 242T | 16.44 | 15.94 | 19.21 | 16.23 | 15.88 | 19.07 | 22.80 | -3.59 | -4.08 | 15.13 | 28.80 | -13.67 | |
| 5755 | 151 | AVG | 242T | 16.33 | 15.93 | 19.14 | 16.02 | 15.87 | 18.96 | 30.00 | -10.86 | 0.75 | 19.90 | - | - | |
| 5795 | 159 | AVG | 242T | 16.46 | 16.18 | 19.33 | 16.47 | 16.02 | 19.26 | 30.00 | -10.67 | 0.75 | 20.08 | - | - | |

Table 7-50. MIMO 40MHz BW (UNII) Maximum Conducted Output Power (242 Tones)

| 5GHz (80MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | | | | | | | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] | Directional Ant. Gain [dBi] | Max e.i.r.p. [dBm] | Max e.i.r.p. Limit [dBm] | e.i.r.p. Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------------------|-----------------------------|-----------------------------|--------------------|--------------------------|----------------------|
| | | | | | 61 | | | 62 | | | 64 | | | | | | | | |
| | | | | | ANT1 | ANT2 | MIMO | ANT1 | ANT2 | MIMO | ANT1 | ANT2 | MIMO | | | | | | |
| 5210 | 42 | AVG | 242T | 14.09 | 14.31 | 17.21 | 14.33 | 14.49 | 17.42 | 13.95 | 14.26 | 17.12 | 23.98 | -6.56 | -6.27 | 11.15 | 22.39 | -11.24 | |
| 5290 | 58 | AVG | 242T | 12.49 | 12.29 | 15.40 | 12.47 | 12.37 | 15.43 | 12.10 | 11.88 | 15.00 | 23.47 | -8.04 | -5.51 | 9.92 | 29.47 | -19.55 | |
| 5530 | 106 | AVG | 242T | 13.60 | 13.65 | 16.64 | 13.57 | 13.87 | 16.73 | 13.82 | 13.65 | 16.75 | 22.80 | -6.05 | -4.08 | 12.67 | 28.80 | -16.13 | |
| 5610 | 122 | AVG | 242T | 15.87 | 16.39 | 19.15 | 15.78 | 16.37 | 19.10 | 15.71 | 16.40 | 19.08 | 22.80 | -3.65 | -4.08 | 15.07 | 28.80 | -13.73 | |
| 5690 | 138 | AVG | 242T | 15.97 | 16.34 | 19.17 | 15.88 | 16.26 | 19.08 | 15.92 | 16.23 | 19.09 | 22.80 | -3.63 | -4.08 | 15.09 | 28.80 | -13.71 | |
| 5775 | 155 | AVG | 242T | 15.98 | 16.27 | 19.14 | 15.94 | 16.18 | 19.07 | 15.63 | 16.26 | 18.97 | 30.00 | -10.86 | 0.75 | 19.89 | - | - | |

Table 7-51. MIMO 80MHz BW (UNII) Maximum Conducted Output Power (242 Tones)

| | | | | |
|---|---|---------------------------------------|---|---------------------------------|
| FCC ID: A3LSMF707U |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M2005040080-08.A3L | Test Dates: 05/04 - 07/06/2020 | EUT Type: Portable Handset | | Page 96 of 271 |

MIMO Conducted Output Power Measurements (484 Tones)

| 5GHz (40MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] | Directional Ant. Gain [dBi] | Max e.i.r.p. [dBm] | Max e.i.r.p. Limit [dBm] | e.i.r.p. Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-------|-----------------------------|-----------------------------|-----------------------------|--------------------|--------------------------|----------------------|
| | | | | | 65 | | | | | | | | |
| | | | | | ANT1 | ANT2 | MIMO | | | | | | |
| | 5190 | 38 | AVG | 484T | 14.56 | 14.58 | 17.58 | 23.98 | -6.40 | -6.27 | 11.31 | 22.39 | -11.08 |
| | 5230 | 46 | AVG | 484T | 15.47 | 15.61 | 18.55 | 23.98 | -5.43 | -5.51 | 13.04 | 22.39 | -9.35 |
| | 5270 | 54 | AVG | 484T | 15.34 | 15.49 | 18.43 | 23.47 | -5.04 | -5.51 | 12.91 | 29.47 | -16.56 |
| | 5310 | 62 | AVG | 484T | 13.44 | 13.68 | 16.57 | 23.47 | -6.90 | -5.51 | 11.06 | 29.47 | -18.41 |
| | 5510 | 102 | AVG | 484T | 13.42 | 13.93 | 16.69 | 22.80 | -6.11 | -4.08 | 12.62 | 28.80 | -16.18 |
| | 5590 | 118 | AVG | 484T | 15.70 | 15.77 | 18.75 | 22.80 | -4.05 | -4.08 | 14.67 | 28.80 | -14.13 |
| | 5710 | 142 | AVG | 484T | 15.56 | 15.63 | 18.61 | 22.80 | -4.19 | -4.08 | 14.53 | 28.80 | -14.27 |
| | 5755 | 151 | AVG | 484T | 15.42 | 15.59 | 18.52 | 30.00 | -11.48 | 0.75 | 19.27 | - | - |
| | 5795 | 159 | AVG | 484T | 15.60 | 15.77 | 18.70 | 30.00 | -11.30 | 0.75 | 19.45 | - | - |

Table 7-52. MIMO 40MHz BW (UNII) Maximum Conducted Output Power (484 Tones)

| 5GHz (80MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | | | | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] | Directional Ant. Gain [dBi] | Max e.i.r.p. [dBm] | Max e.i.r.p. Limit [dBm] | e.i.r.p. Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-------|-------|-------|-------|-----------------------------|-----------------------------|-----------------------------|--------------------|--------------------------|----------------------|
| | | | | | 65 | | | 66 | | | | | | | | |
| | | | | | ANT1 | ANT2 | MIMO | ANT1 | ANT2 | MIMO | | | | | | |
| | 5210 | 42 | AVG | 484T | 14.19 | 14.32 | 17.27 | 14.11 | 14.37 | 17.25 | 23.98 | -6.71 | -6.27 | 10.99 | 22.39 | -11.40 |
| | 5290 | 58 | AVG | 484T | 12.49 | 12.25 | 15.38 | 12.25 | 12.04 | 15.16 | 23.47 | -8.09 | -5.51 | 9.87 | 29.47 | -19.60 |
| | 5530 | 106 | AVG | 484T | 13.99 | 13.70 | 16.86 | 13.54 | 13.72 | 16.64 | 22.80 | -5.94 | -4.08 | 12.78 | 28.80 | -16.02 |
| | 5610 | 122 | AVG | 484T | 15.49 | 15.81 | 18.66 | 15.44 | 15.93 | 18.70 | 22.80 | -4.10 | -4.08 | 14.63 | 28.80 | -14.17 |
| | 5690 | 138 | AVG | 484T | 15.45 | 15.89 | 18.69 | 15.52 | 15.59 | 18.57 | 22.80 | -4.11 | -4.08 | 14.61 | 28.80 | -14.19 |
| | 5775 | 155 | AVG | 484T | 15.39 | 15.71 | 18.56 | 15.59 | 15.84 | 18.73 | 30.00 | -11.27 | 0.75 | 19.48 | - | - |

Table 7-53. MIMO 80MHz BW (UNII) Maximum Conducted Output Power (484 Tones)

| | | | | |
|---|---|---------------------------------------|---|---------------------------------|
| FCC ID: A3LSMF707U |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M2005040080-08.A3L | Test Dates: 05/04 - 07/06/2020 | EUT Type: Portable Handset | | Page 97 of 271 |

MIMO Conducted Output Power Measurements (996 Tones)

| 5GHz (80MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] | Directional Ant. Gain [dBi] | Max e.i.r.p. [dBm] | Max e.i.r.p. Limit [dBm] | e.i.r.p. Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-------|-----------------------------|-----------------------------|-----------------------------|--------------------|--------------------------|----------------------|
| | | | | | 67 | | | | | | | | |
| | | | | | ANT1 | ANT2 | MIMO | | | | | | |
| | 5210 | 42 | AVG | 996T | 14.01 | 14.17 | 17.10 | 23.98 | -6.88 | -6.27 | 10.83 | 22.39 | -11.56 |
| | 5290 | 58 | AVG | 996T | 12.25 | 12.01 | 15.14 | 23.47 | -8.33 | -5.51 | 9.63 | 29.47 | -19.84 |
| | 5530 | 106 | AVG | 996T | 13.67 | 13.56 | 16.63 | 22.80 | -6.17 | -4.08 | 12.55 | 28.80 | -16.25 |
| | 5610 | 122 | AVG | 996T | 14.63 | 14.63 | 17.64 | 22.80 | -5.16 | -4.08 | 13.56 | 28.80 | -15.24 |
| | 5690 | 138 | AVG | 996T | 14.65 | 14.64 | 17.66 | 22.80 | -5.14 | -4.08 | 13.58 | 28.80 | -15.22 |
| | 5775 | 155 | AVG | 996T | 14.67 | 14.59 | 17.64 | 30.00 | -12.36 | 0.75 | 18.39 | - | - |

Table 7-54. MIMO 80MHz BW (UNII) Maximum Conducted Output Power (996 Tones)

| | | | | |
|---|---|---------------------------------------|---|---------------------------------|
| FCC ID: A3LSMF707U |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M2005040080-08.A3L | Test Dates: 05/04 - 07/06/2020 | EUT Type: Portable Handset | | Page 98 of 271 |

Note:

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

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

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

Sample MIMO Calculation:

At 5180MHz in 802.11n (20MHz BW) mode, the average conducted output power was measured to be 15.92 dBm for Antenna-1 and 15.98 dBm for Antenna-2.

Antenna 1 + Antenna 2 = MIMO

$$(15.92 \text{ dBm} + 15.98 \text{ dBm}) = (39.08 \text{ mW} + 39.63 \text{ mW}) = 78.71 \text{ mW} = 18.96 \text{ dBm}$$

Sample e.i.r.p. Calculation:

At 5180MHz in 802.11n (20MHz BW) mode, the average MIMO conducted power was calculated to be 18.96 dBm with directional gain of N/A dBi.

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

$$18.96 \text{ dBm} + -6.27\text{dBi} = 12.69\text{dBm}$$

| | | | |
|--|---|---|---|
| FCC ID: A3LSMF707U |  | MEASUREMENT REPORT (CERTIFICATION) |  Approved by: Quality Manager |
| Test Report S/N: 1M2005040080-08.A3L | Test Dates: 05/04 - 07/06/2020 | EUT Type: Portable Handset | Page 99 of 271 |

7.5 Maximum Power Spectral Density – 802.11ax OFDMA

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

Test Overview and Limit

The spectrum analyzer was connected to the antenna terminal while the EUT was operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2013 and KDB 789033 D02 v02r01, and at the appropriate frequencies. Method SA-1, as defined in ANSI C63.10-2013 and KDB 789033 D02 v02r01, was used to measure the power spectral density.

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

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

Test Procedure Used

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

Test Settings

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

Test Setup

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



Figure 7-4. Test Instrument & Measurement Setup

Test Notes

The power spectral density for each channel was measured with the RU index showing the highest conducted power

| | | | | |
|---|---|---------------------------------------|---|---------------------------------|
| FCC ID: A3LSMF707U |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M2005040080-08.A3L | Test Dates: 05/04 - 07/06/2020 | EUT Type: Portable Handset | | Page 100 of 271 |

SISO Antenna-1 Power Spectral Density Measurements (26 Tones)

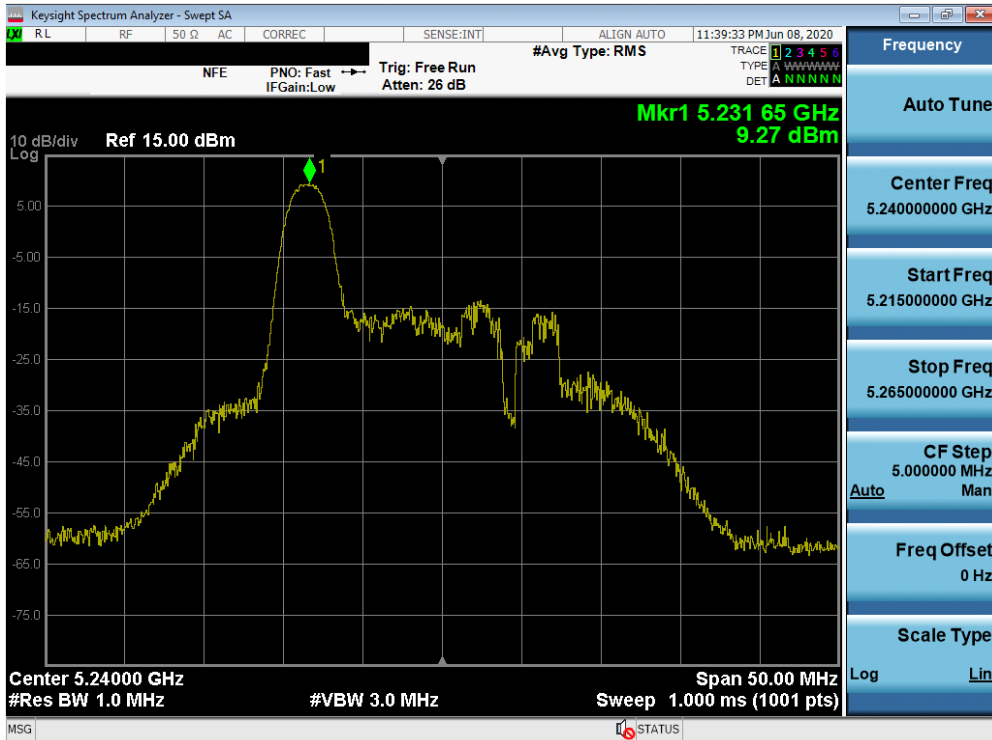
| | Frequency [MHz] | Channel No. | 802.11 Mode | Tones | Data Rate [Mbps] | Measured Power Density [dBm] | Max Power Density [dBm/MHz] | Margin [dB] |
|---------|-----------------|-------------|-------------|-------|------------------|------------------------------|-----------------------------|-------------|
| Band 1 | 5180 | 36 | ax (20MHz) | 26T | MCS0 | 7.72 | 11.0 | -3.28 |
| | 5200 | 40 | ax (20MHz) | 26T | MCS0 | 9.12 | 11.0 | -1.88 |
| | 5240 | 48 | ax (20MHz) | 26T | MCS0 | 9.27 | 11.0 | -1.74 |
| | 5190 | 38 | ax (40MHz) | 26T | MCS0 | 8.47 | 11.0 | -2.53 |
| | 5230 | 46 | ax (40MHz) | 26T | MCS0 | 8.33 | 11.0 | -2.67 |
| | 5210 | 42 | ax (80MHz) | 26T | MCS0 | 9.16 | 11.0 | -1.84 |
| Band 2A | 5260 | 52 | ax (20MHz) | 26T | MCS0 | 9.43 | 11.0 | -1.57 |
| | 5280 | 56 | ax (20MHz) | 26T | MCS0 | 8.61 | 11.0 | -2.39 |
| | 5320 | 64 | ax (20MHz) | 26T | MCS0 | 6.55 | 11.0 | -4.45 |
| | 5270 | 54 | ax (40MHz) | 26T | MCS0 | 8.29 | 11.0 | -2.72 |
| | 5310 | 62 | ax (40MHz) | 26T | MCS0 | 8.71 | 11.0 | -2.29 |
| | 5290 | 58 | ax (80MHz) | 26T | MCS0 | 8.31 | 11.0 | -2.69 |
| Band 2C | 5500 | 100 | ax (20MHz) | 26T | MCS0 | 9.01 | 11.0 | -1.99 |
| | 5600 | 120 | ax (20MHz) | 26T | MCS0 | 8.91 | 11.0 | -2.09 |
| | 5720 | 144 | ax (20MHz) | 26T | MCS0 | 9.95 | 11.0 | -1.05 |
| | 5510 | 102 | ax (40MHz) | 26T | MCS0 | 8.56 | 11.0 | -2.44 |
| | 5590 | 118 | ax (40MHz) | 26T | MCS0 | 8.75 | 11.0 | -2.25 |
| | 5710 | 142 | ax (40MHz) | 26T | MCS0 | 8.77 | 11.0 | -2.23 |
| | 5530 | 106 | ax (80MHz) | 26T | MCS0 | 7.52 | 11.0 | -3.48 |
| | 5610 | 122 | ax (80MHz) | 26T | MCS0 | 9.30 | 11.0 | -1.70 |
| | 5690 | 138 | ax (80MHz) | 26T | MCS0 | 9.50 | 11.0 | -1.50 |

Table 7-55. Bands 1, 2A, 2C Conducted Power Spectral Density Measurements SISO ANT1 (26 Tones)

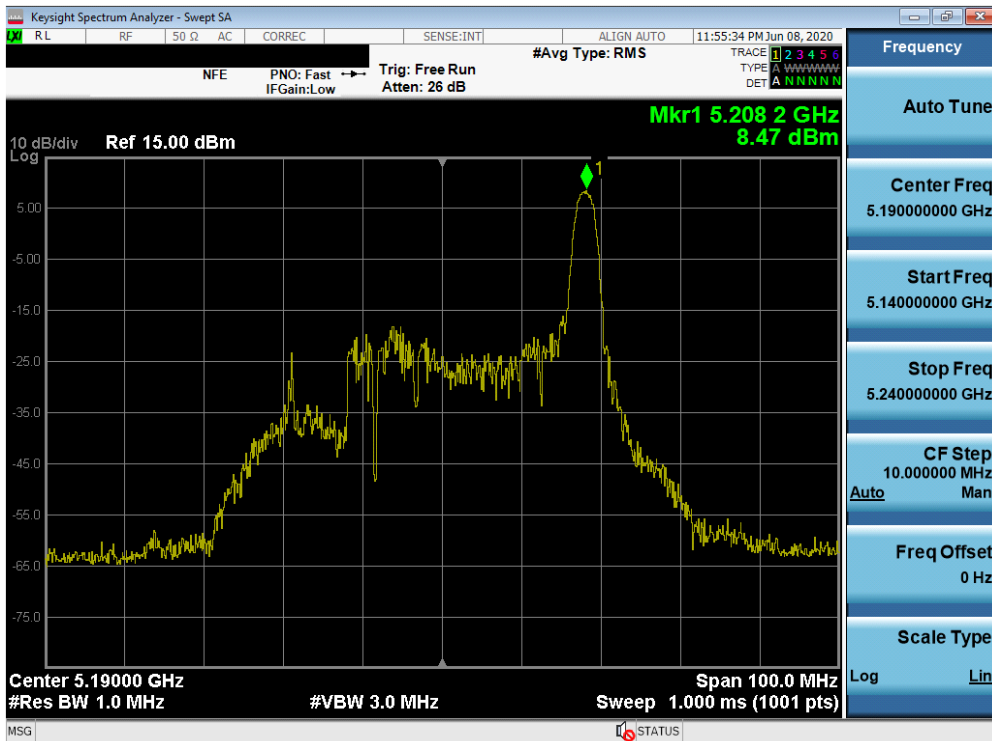
| | Frequency [MHz] | Channel No. | 802.11 Mode | Tones | Data Rate [Mbps] | Measured Power Density [dBm] | Antenna Gain [dBi] | e.i.r.p. Power Density [dBm/MHz] | ISED Max e.i.r.p. Power Density [dBm/MHz] | Margin [dB] |
|--------|-----------------|-------------|-------------|-------|------------------|------------------------------|--------------------|----------------------------------|---|-------------|
| Band 1 | 5180 | 36 | ax (20MHz) | 26T | MCS0 | 7.72 | -6.50 | 1.22 | 10.0 | -8.78 |
| | 5200 | 40 | ax (20MHz) | 26T | MCS0 | 9.13 | -6.50 | 2.63 | 10.0 | -7.38 |
| | 5240 | 48 | ax (20MHz) | 26T | MCS0 | 9.27 | -6.20 | 3.07 | 10.0 | -6.94 |
| | 5190 | 38 | ax (40MHz) | 26T | MCS0 | 8.47 | -6.50 | 1.97 | 10.0 | -8.03 |
| | 5230 | 46 | ax (40MHz) | 26T | MCS0 | 8.33 | -6.20 | 2.13 | 10.0 | -7.87 |
| | 5210 | 42 | ax (80MHz) | 26T | MCS0 | 9.16 | -6.20 | 2.96 | 10.0 | -7.04 |

Table 7-56. Band 1 e.i.r.p. Conducted Power Spectral Density Measurements (ISED 26 Tones)

| | | | | |
|---|---|---------------------------------------|---|---------------------------------|
| FCC ID: A3LSMF707U |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M2005040080-08.A3L | Test Dates: 05/04 - 07/06/2020 | EUT Type: Portable Handset | | Page 101 of 271 |

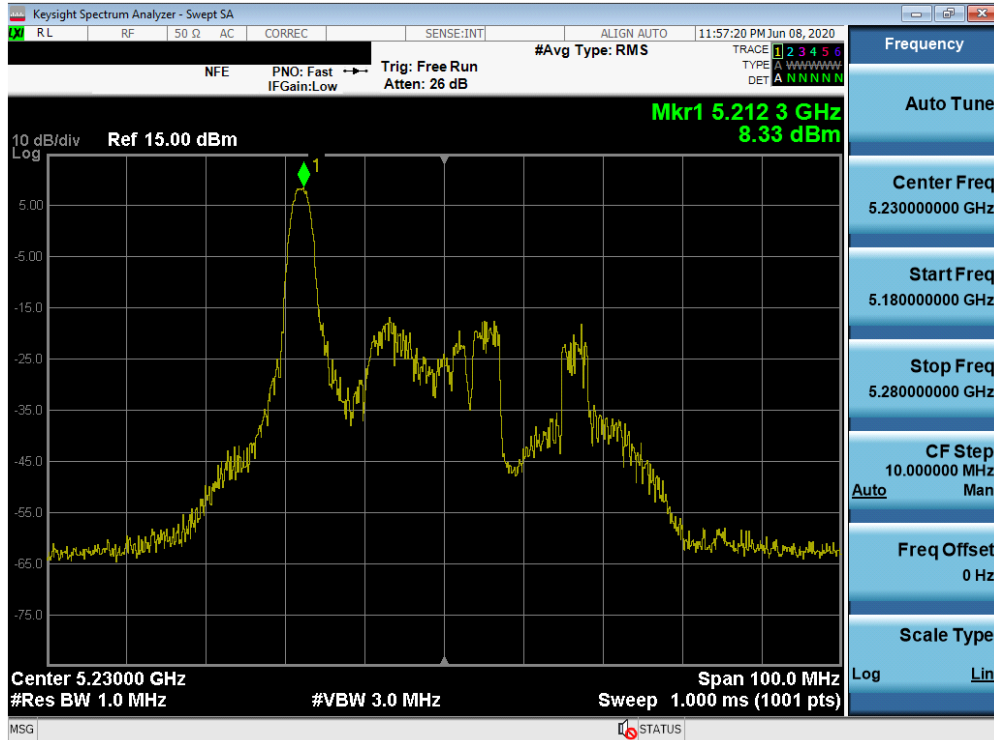


Plot 7-111. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 48)

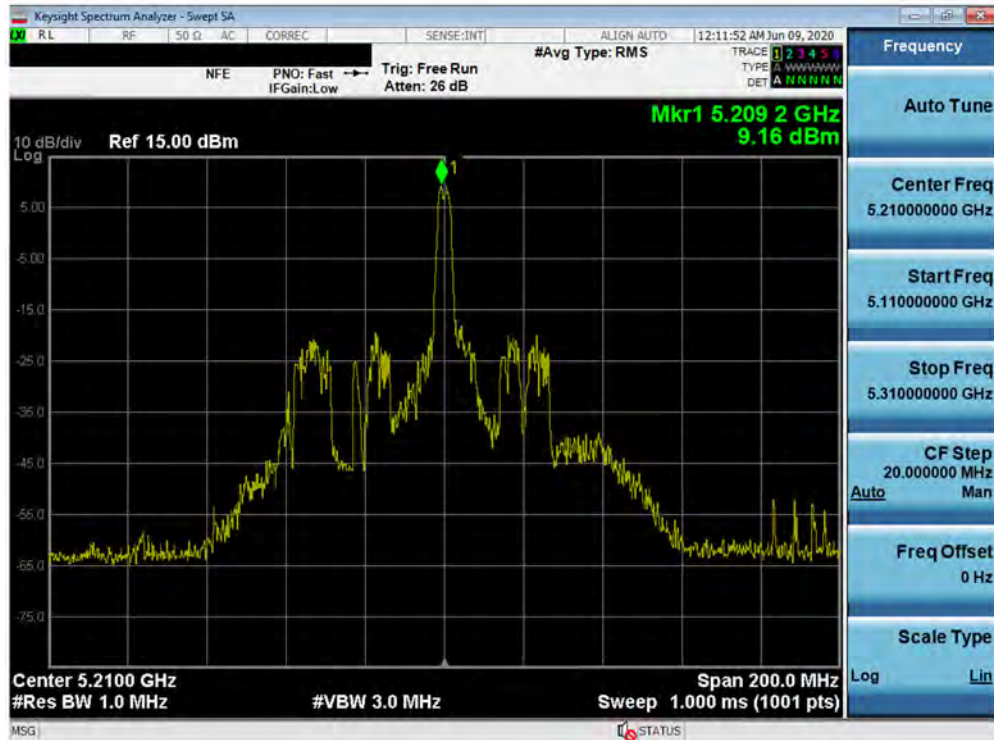


Plot 7-112. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 38)

| | | | | |
|---|---|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSMF707U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M2005040080-08.A3L | Test Dates: 05/04 - 07/06/2020 | EUT Type: Portable Handset | | Page 103 of 271 |

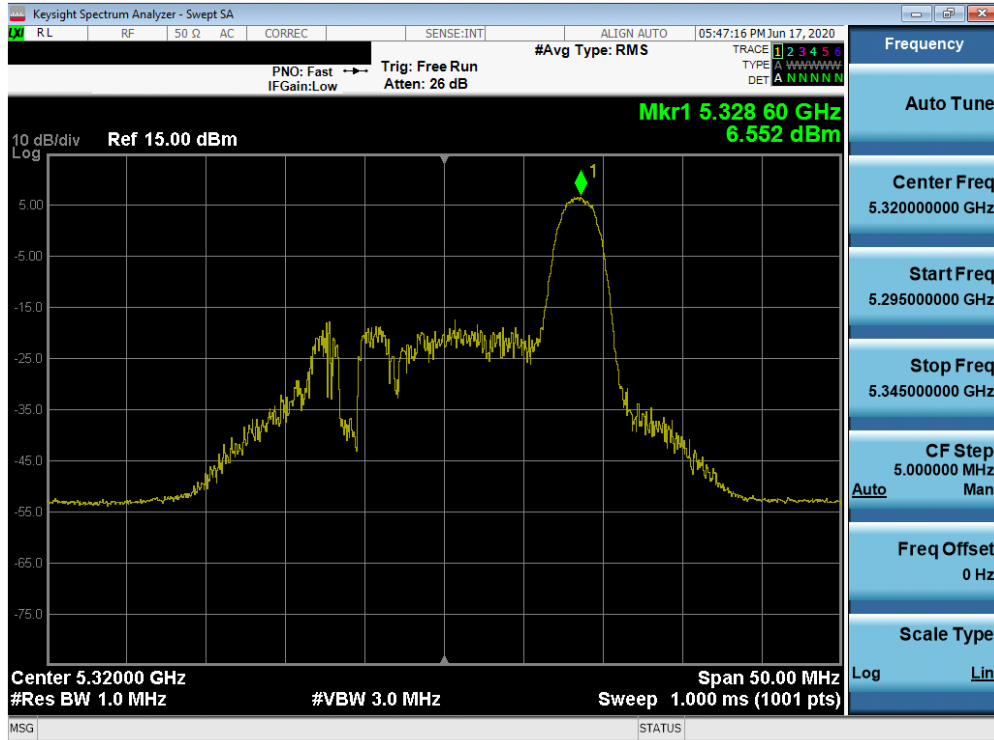


Plot 7-113. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 46)

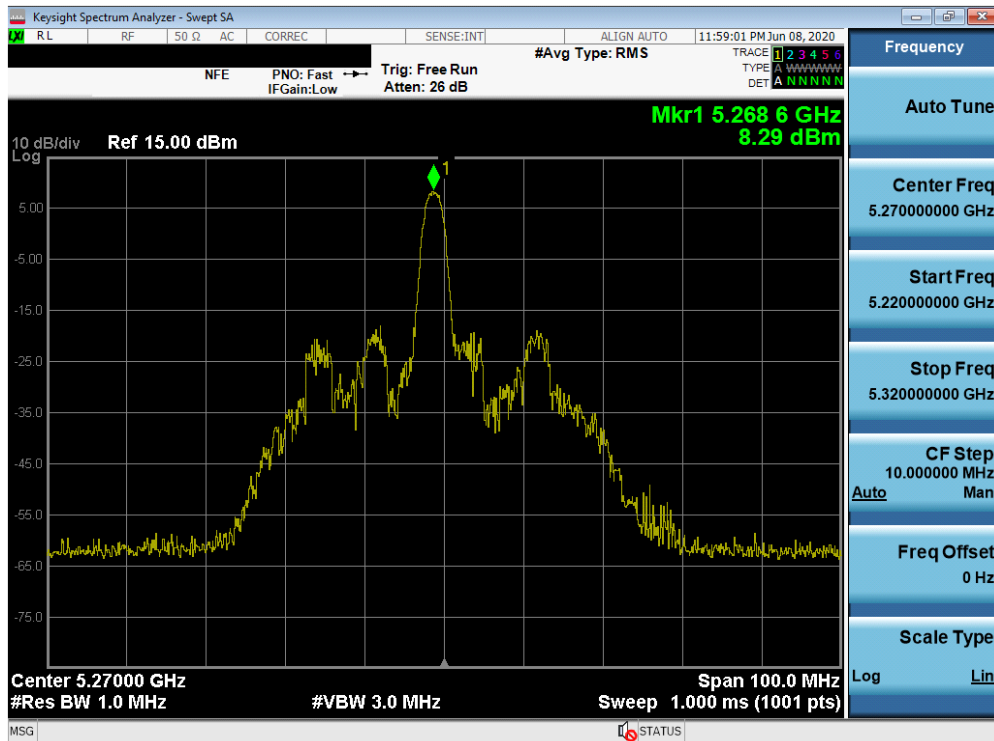


Plot 7-114. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 42)

| | | | | |
|---|---|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSMF707U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M2005040080-08.A3L | Test Dates: 05/04 - 07/06/2020 | EUT Type: Portable Handset | | Page 104 of 271 |

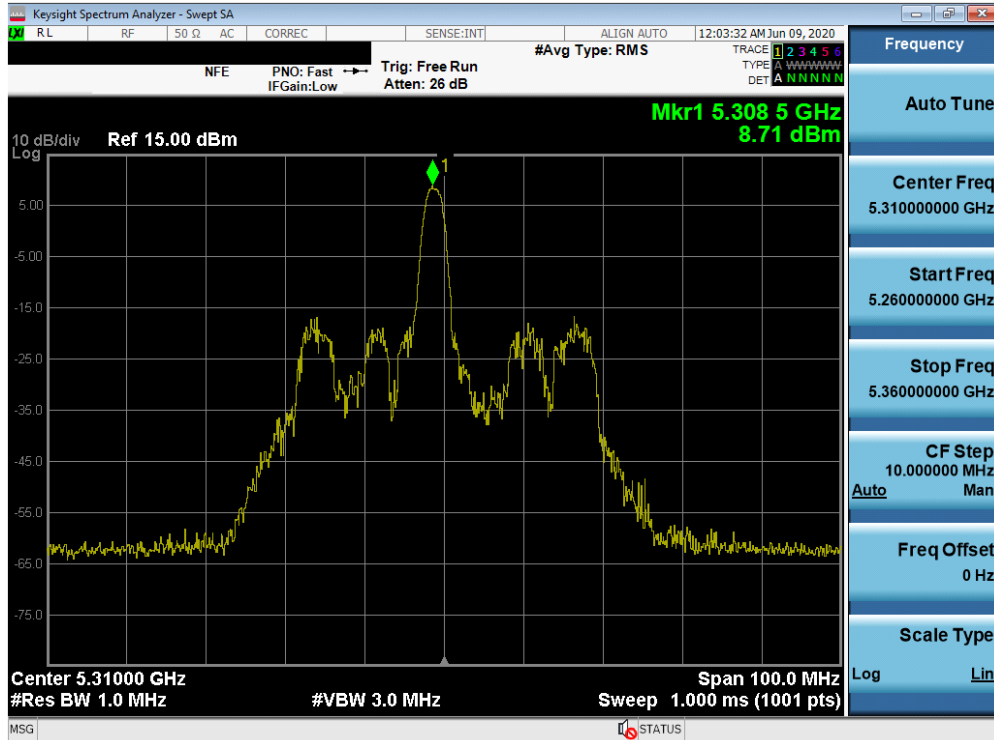


Plot 7-117. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 64)

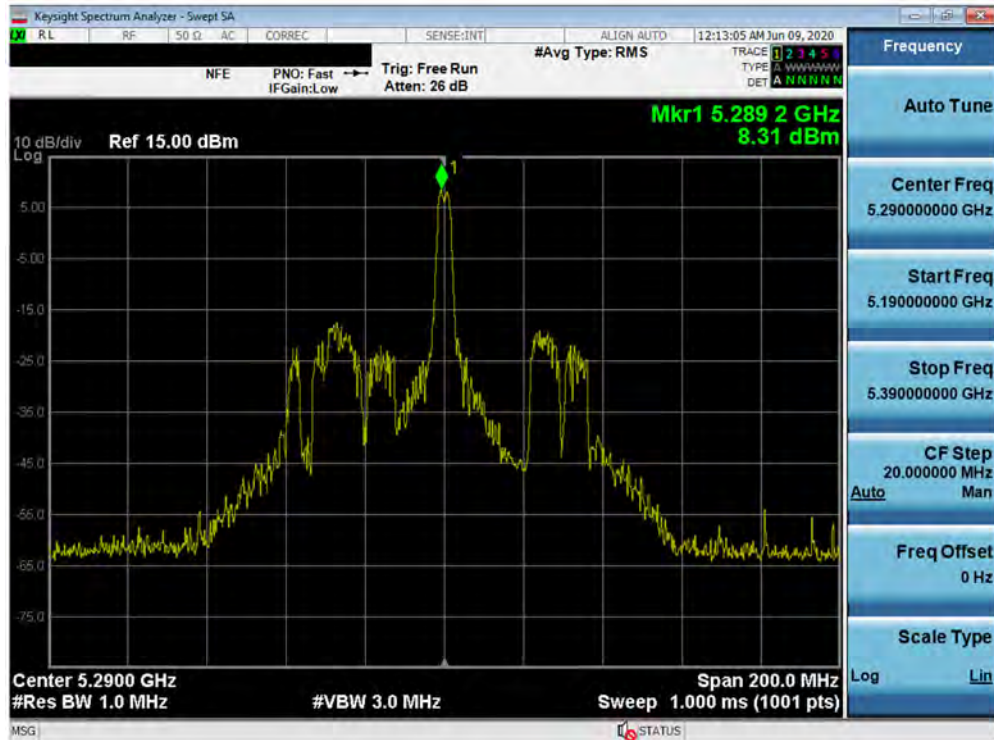


Plot 7-118. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 54)

| | | | | |
|---|---|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSMF707U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M2005040080-08.A3L | Test Dates: 05/04 - 07/06/2020 | EUT Type: Portable Handset | | Page 106 of 271 |

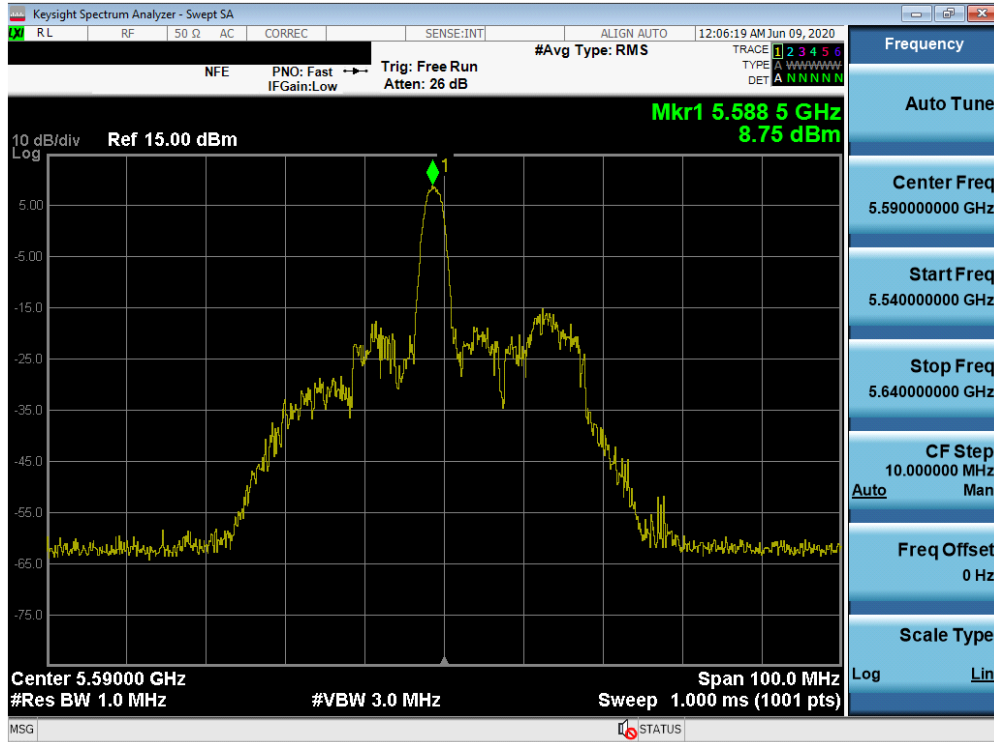


Plot 7-119. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 62)

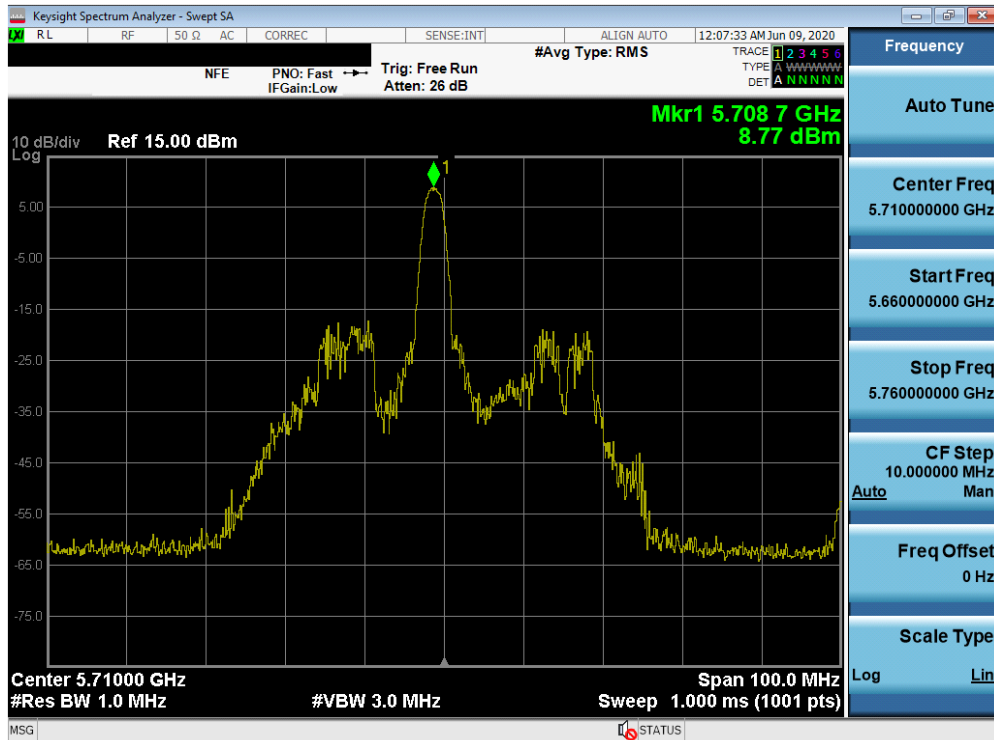


Plot 7-120. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 58)

| | | | | |
|---|---|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSMF707U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M2005040080-08.A3L | Test Dates: 05/04 - 07/06/2020 | EUT Type: Portable Handset | | Page 107 of 271 |

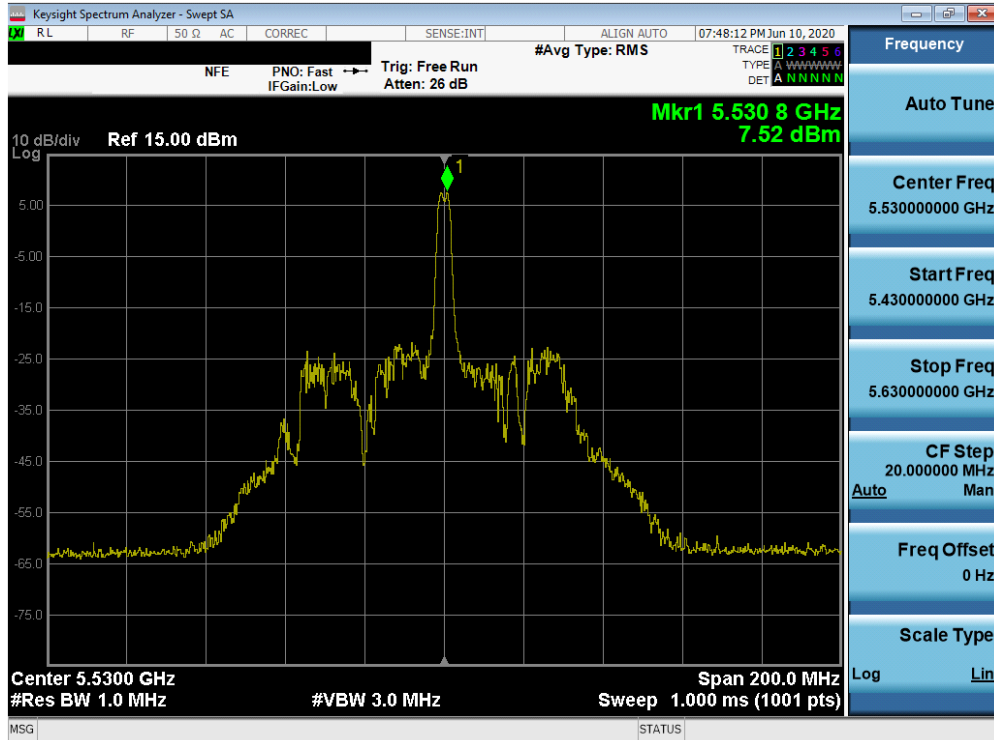


Plot 7-125. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 118)



Plot 7-126. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 142)

| | | | | |
|---|---|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSMF707U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M2005040080-08.A3L | Test Dates: 05/04 - 07/06/2020 | EUT Type: Portable Handset | | Page 110 of 271 |



Plot 7-127. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 106)



Plot 7-128. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 122)

| | | | | |
|---|---|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSMF707U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M2005040080-08.A3L | Test Dates: 05/04 - 07/06/2020 | EUT Type: Portable Handset | | Page 111 of 271 |



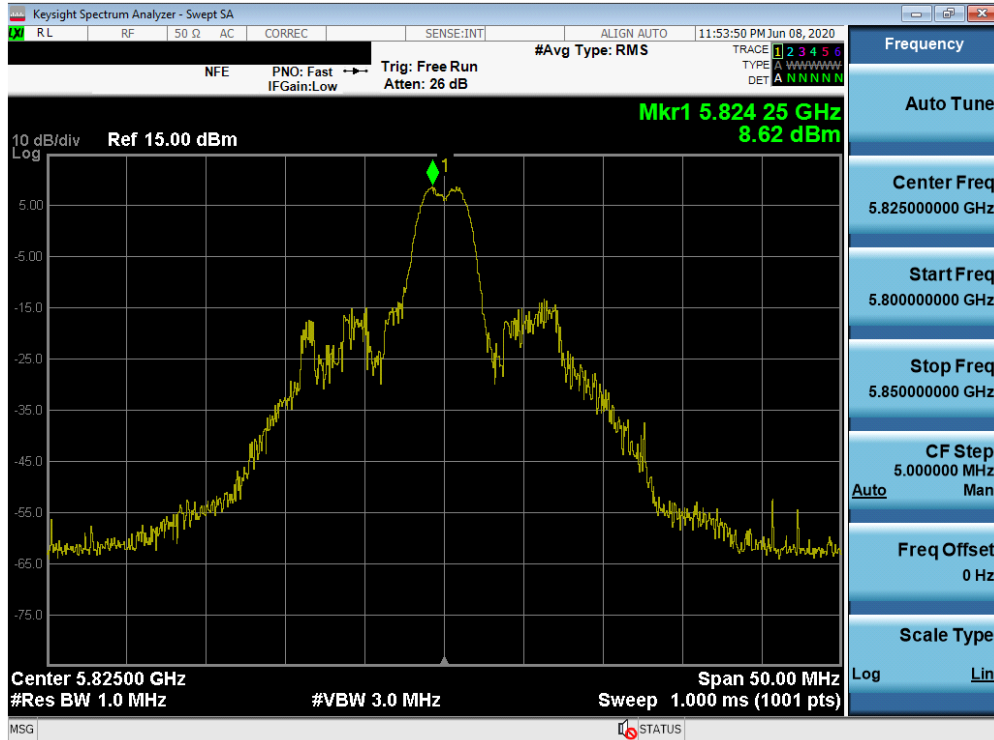
Plot 7-129. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 138)

| | | | | |
|---|---|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSMF707U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M2005040080-08.A3L | Test Dates: 05/04 - 07/06/2020 | EUT Type: Portable Handset | | Page 112 of 271 |

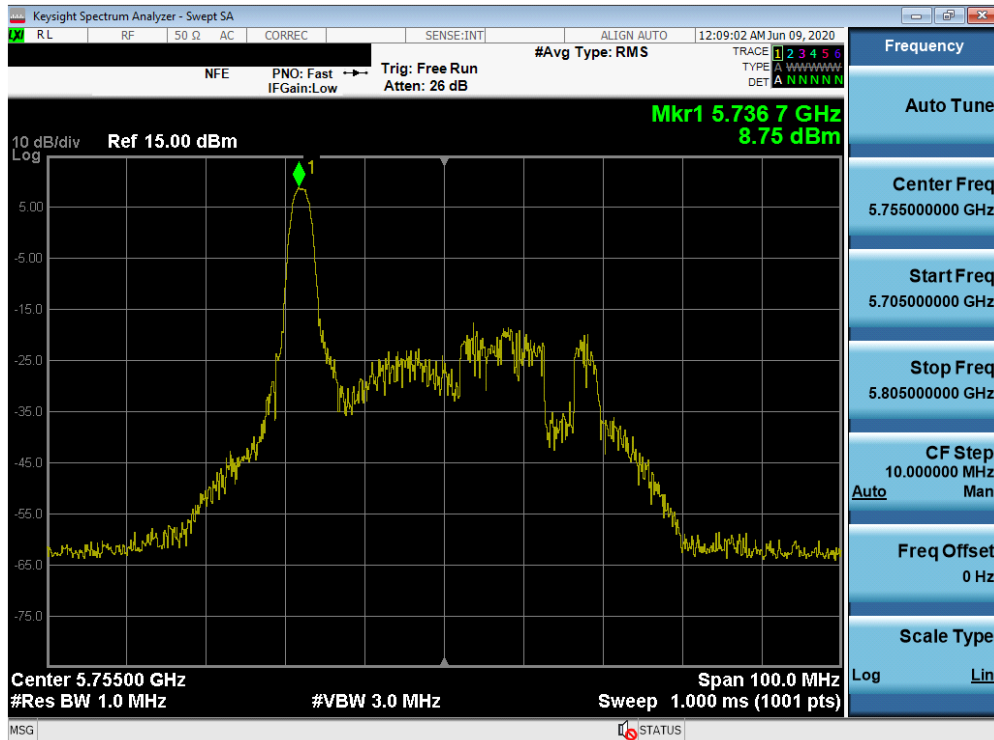
| | Frequency [MHz] | Channel No. | 802.11 Mode | Tones | Data Rate [Mbps] | Measured Power Density [dBm] | Max Permissible Power Density | Margin [dB] |
|---------------|-----------------|-------------|-------------|-------|------------------|------------------------------|-------------------------------|-------------|
| Band 3 | 5745 | 149 | ax (20MHz) | 26T | MCS0 | 9.36 | 30.00 | -20.64 |
| | 5785 | 157 | ax (20MHz) | 26T | MCS0 | 9.54 | 30.00 | -20.46 |
| | 5825 | 165 | ax (20MHz) | 26T | MCS0 | 8.62 | 30.00 | -21.38 |
| | 5755 | 151 | ax (40MHz) | 26T | MCS0 | 8.75 | 30.00 | -21.25 |
| | 5795 | 159 | ax (40MHz) | 26T | MCS0 | 9.00 | 30.00 | -21.00 |
| | 5775 | 155 | ax (80MHz) | 26T | MCS0 | 9.55 | 30.00 | -20.45 |

Table 7-57. Band 3 Conducted Power Spectral Density Measurements SISO ANT1 (26 Tones)

| | | | | |
|--|---|---|---|--|
| FCC ID: A3LSMF707U |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M2005040080-08.A3L | Test Dates: 05/04 - 07/06/2020 | EUT Type: Portable Handset | Page 113 of 271 | |



Plot 7-132. Power Spectral Density Plot SISO ANT1 (20 MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 165)



Plot 7-133. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 151)

| | | | | |
|---|---|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSMF707U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M2005040080-08.A3L | Test Dates: 05/04 - 07/06/2020 | EUT Type: Portable Handset | | Page 115 of 271 |

SISO Antenna-1 Power Spectral Density Measurements (Full Tones)

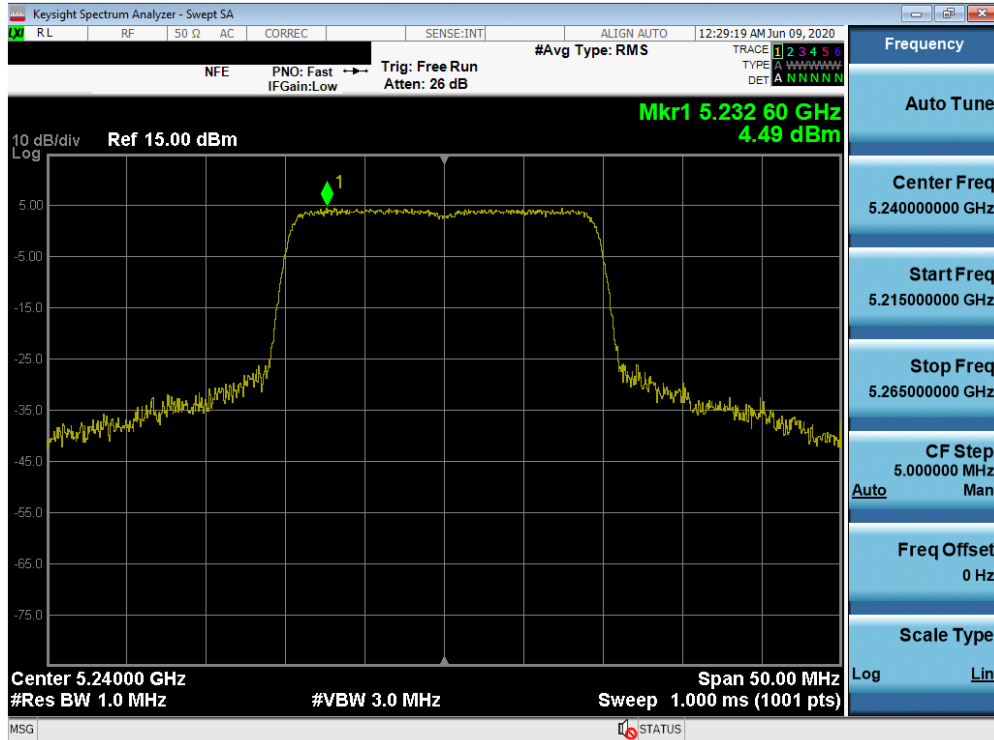
| | Frequency [MHz] | Channel No. | 802.11 Mode | Tones | Data Rate [Mbps] | Measured Power Density [dBm] | Max Power Density [dBm/MHz] | Margin [dB] |
|---------|-----------------|-------------|-------------|-------|------------------|------------------------------|-----------------------------|-------------|
| Band 1 | 5180 | 36 | ax (20MHz) | 242T | MCS0 | 3.70 | 11.0 | -7.30 |
| | 5200 | 40 | ax (20MHz) | 242T | MCS0 | 4.12 | 11.0 | -6.88 |
| | 5240 | 48 | ax (20MHz) | 242T | MCS0 | 4.49 | 11.0 | -6.51 |
| | 5190 | 38 | ax (40MHz) | 484T | MCS0 | 1.26 | 11.0 | -9.74 |
| | 5230 | 46 | ax (40MHz) | 484T | MCS0 | 1.58 | 11.0 | -9.42 |
| | 5210 | 42 | ax (80MHz) | 996T | MCS0 | -2.77 | 11.0 | -13.77 |
| Band 2A | 5260 | 52 | ax (20MHz) | 242T | MCS0 | 4.38 | 11.0 | -6.62 |
| | 5280 | 56 | ax (20MHz) | 242T | MCS0 | 4.61 | 11.0 | -6.39 |
| | 5320 | 64 | ax (20MHz) | 242T | MCS0 | 4.29 | 11.0 | -6.71 |
| | 5270 | 54 | ax (40MHz) | 484T | MCS0 | 1.79 | 11.0 | -9.21 |
| | 5310 | 62 | ax (40MHz) | 484T | MCS0 | 1.53 | 11.0 | -9.47 |
| | 5290 | 58 | ax (80MHz) | 996T | MCS0 | -3.08 | 11.0 | -14.08 |
| Band 2C | 5500 | 100 | ax (20MHz) | 242T | MCS0 | 4.19 | 11.0 | -6.82 |
| | 5600 | 120 | ax (20MHz) | 242T | MCS0 | 4.61 | 11.0 | -6.39 |
| | 5720 | 144 | ax (20MHz) | 242T | MCS0 | 4.58 | 11.0 | -6.42 |
| | 5510 | 102 | ax (40MHz) | 484T | MCS0 | 1.39 | 11.0 | -9.61 |
| | 5590 | 118 | ax (40MHz) | 484T | MCS0 | 1.61 | 11.0 | -9.39 |
| | 5710 | 142 | ax (40MHz) | 484T | MCS0 | 1.64 | 11.0 | -9.36 |
| | 5530 | 106 | ax (80MHz) | 996T | MCS0 | -2.83 | 11.0 | -13.83 |
| | 5610 | 122 | ax (80MHz) | 996T | MCS0 | -3.24 | 11.0 | -14.24 |
| | 5690 | 138 | ax (80MHz) | 996T | MCS0 | -2.45 | 11.0 | -13.45 |

Table 7-58. Bands 1, 2A, 2C Conducted Power Spectral Density Measurements SISO ANT1 (Full Tones)

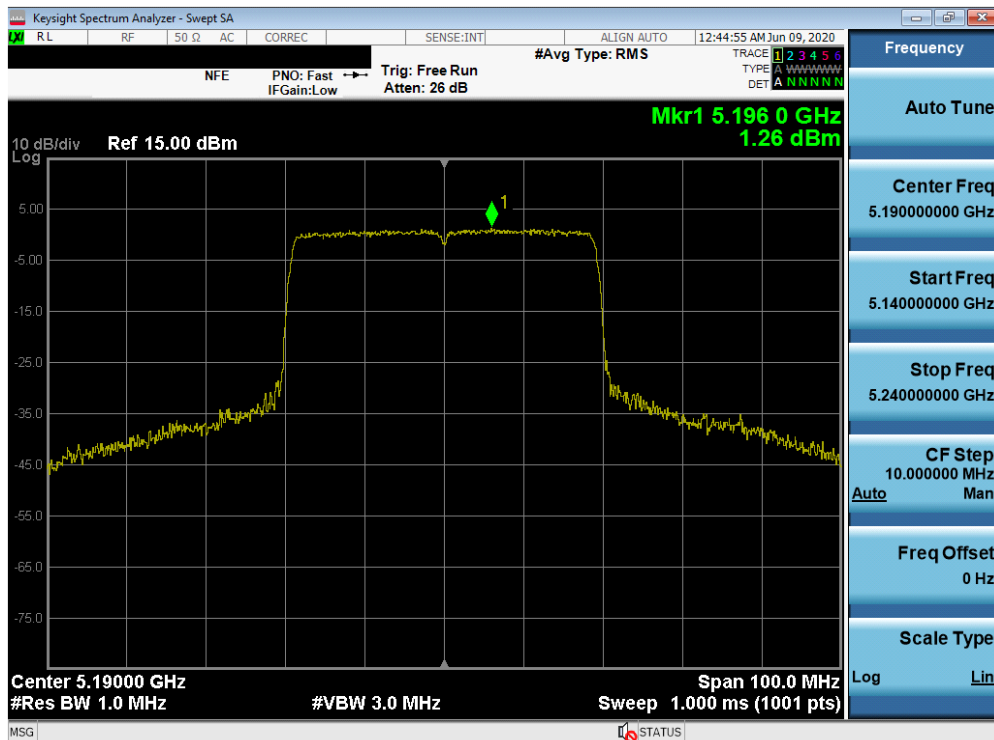
| | Frequency [MHz] | Channel No. | 802.11 Mode | Tones | Data Rate [Mbps] | Measured Power Density [dBm] | Antenna Gain [dBi] | e.i.r.p. Power Density [dBm/MHz] | ISED Max e.i.r.p. Power Density [dBm/MHz] | Margin [dB] |
|--------|-----------------|-------------|-------------|-------|------------------|------------------------------|--------------------|----------------------------------|---|-------------|
| Band 1 | 5180 | 36 | ax (20MHz) | 242T | MCS0 | 3.70 | -6.50 | -2.80 | 10.0 | -12.80 |
| | 5200 | 40 | ax (20MHz) | 242T | MCS0 | 4.12 | -6.50 | -2.38 | 10.0 | -12.38 |
| | 5240 | 48 | ax (20MHz) | 242T | MCS0 | 4.49 | -6.20 | -1.71 | 10.0 | -11.71 |
| | 5190 | 38 | ax (40MHz) | 484T | MCS0 | 1.26 | -6.50 | -5.24 | 10.0 | -15.24 |
| | 5230 | 46 | ax (40MHz) | 484T | MCS0 | 1.58 | -6.20 | -4.62 | 10.0 | -14.62 |
| | 5210 | 42 | ax (80MHz) | 996T | MCS0 | -2.77 | -6.20 | -8.97 | 10.0 | -18.97 |

Table 7-59. Band 1 e.i.r.p. Conducted Power Spectral Density Measurements (ISED Full Tones)

| | | | | |
|---|---|---------------------------------------|---|---------------------------------|
| FCC ID: A3LSMF707U |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M2005040080-08.A3L | Test Dates: 05/04 - 07/06/2020 | EUT Type: Portable Handset | | Page 117 of 271 |

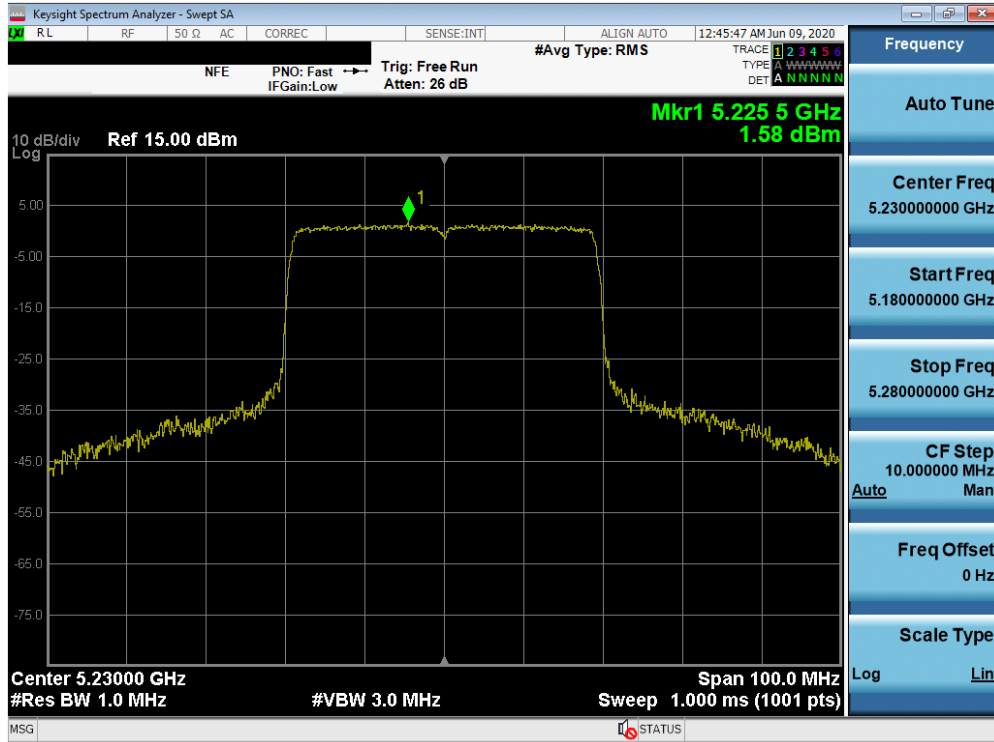


Plot 7-138. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 48)

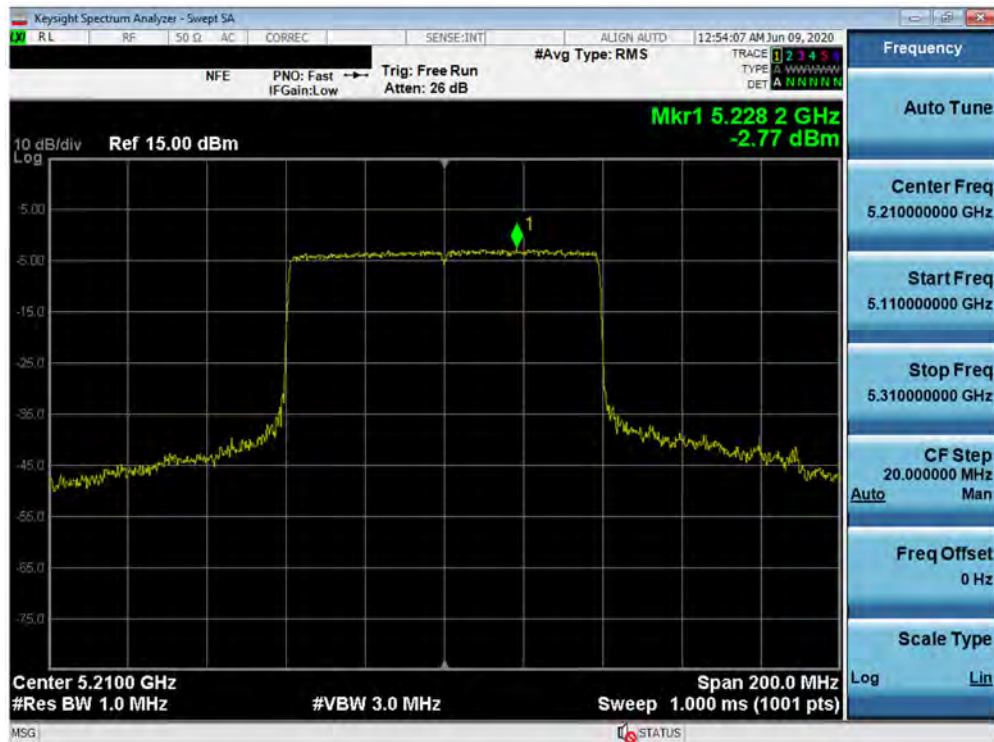


Plot 7-139. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 38)

| | | | | |
|---|---|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSMF707U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M2005040080-08.A3L | Test Dates: 05/04 - 07/06/2020 | EUT Type: Portable Handset | | Page 119 of 271 |

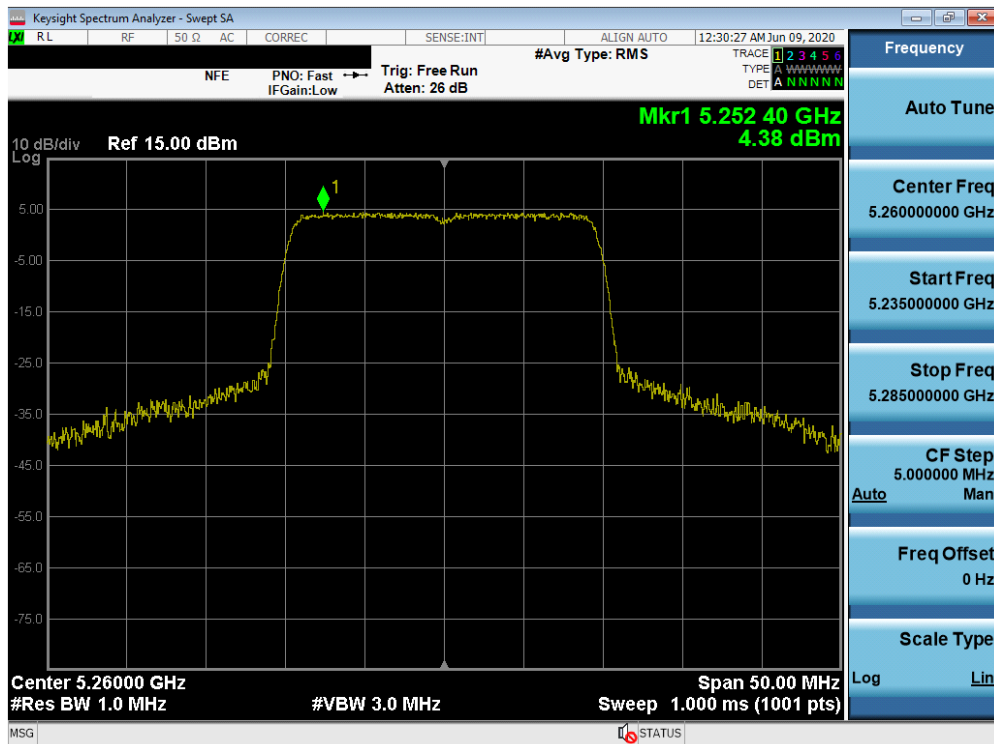


Plot 7-140. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 46)

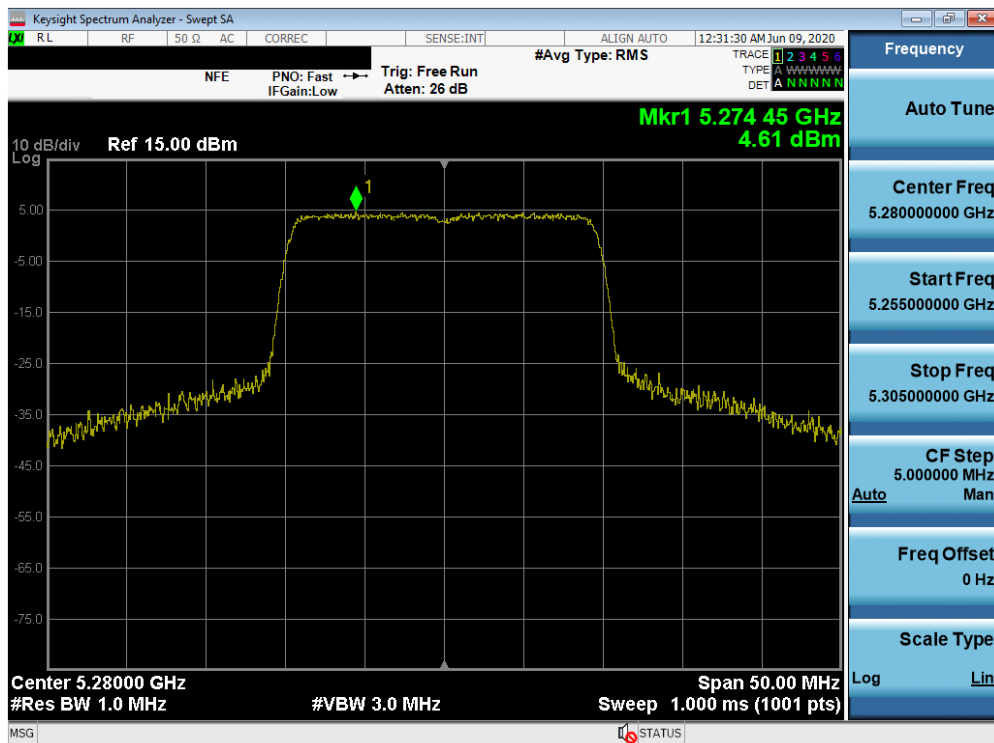


Plot 7-141. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 42)

| | | | | |
|---|--|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSMF707U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M2005040080-08.A3L | Test Dates: 05/04 - 07/06/2020 | EUT Type: Portable Handset | | Page 120 of 271 |

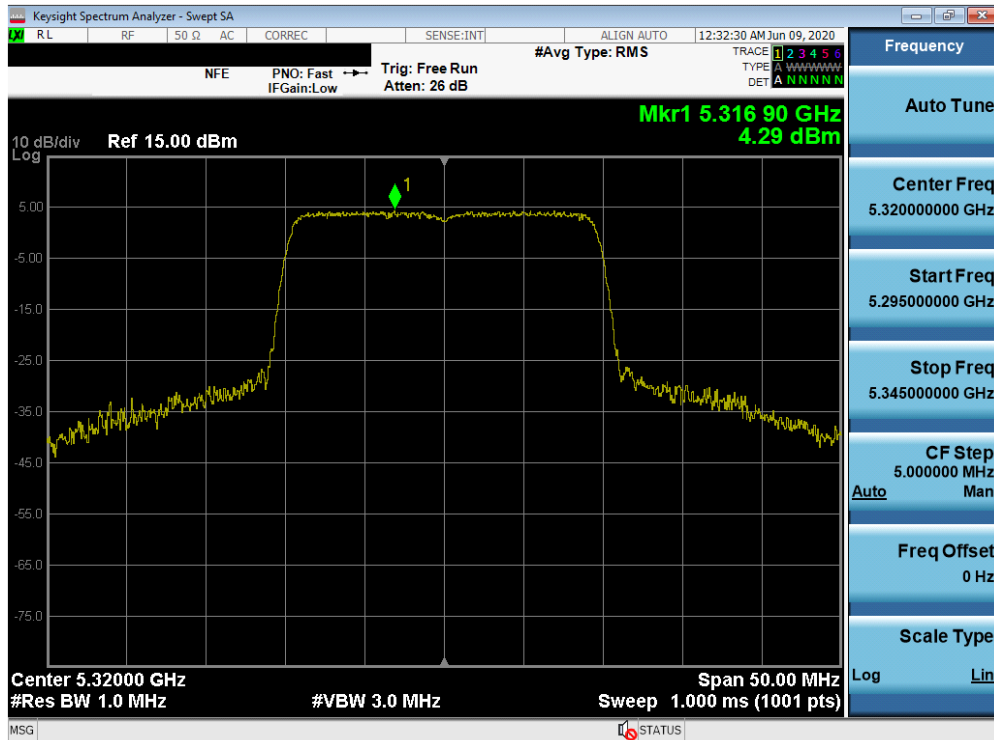


Plot 7-142. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 52)

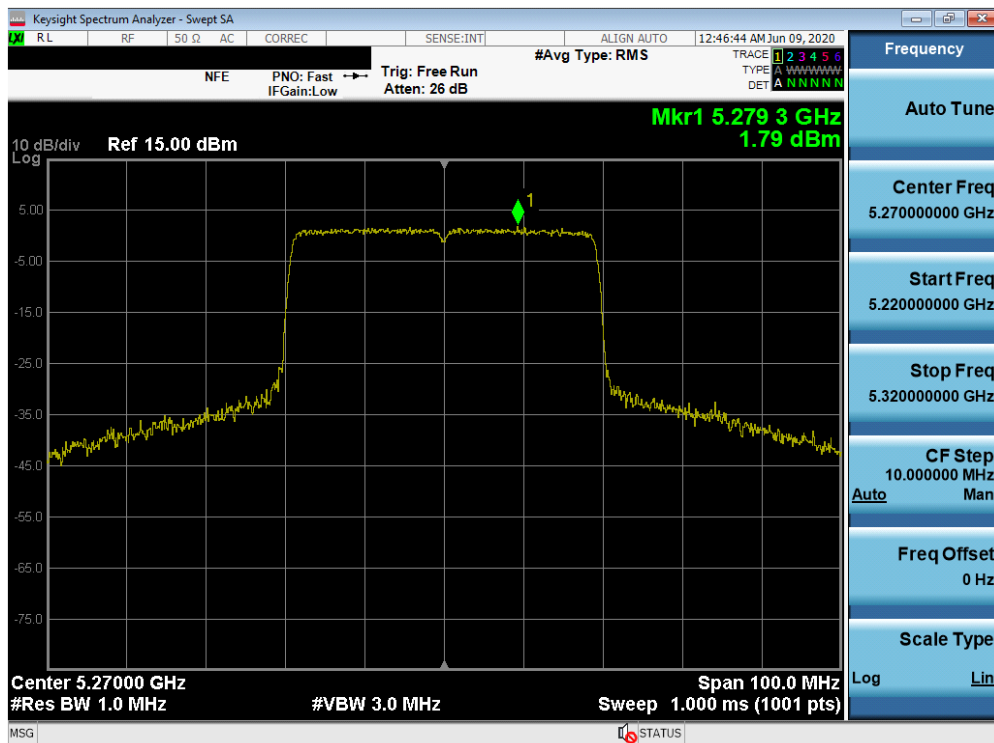


Plot 7-143. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 56)

| | | | | |
|---|---|---------------------------------------|---|---------------------------------|
| FCC ID: A3LSMF707U |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M2005040080-08.A3L | Test Dates: 05/04 - 07/06/2020 | EUT Type: Portable Handset | | Page 121 of 271 |

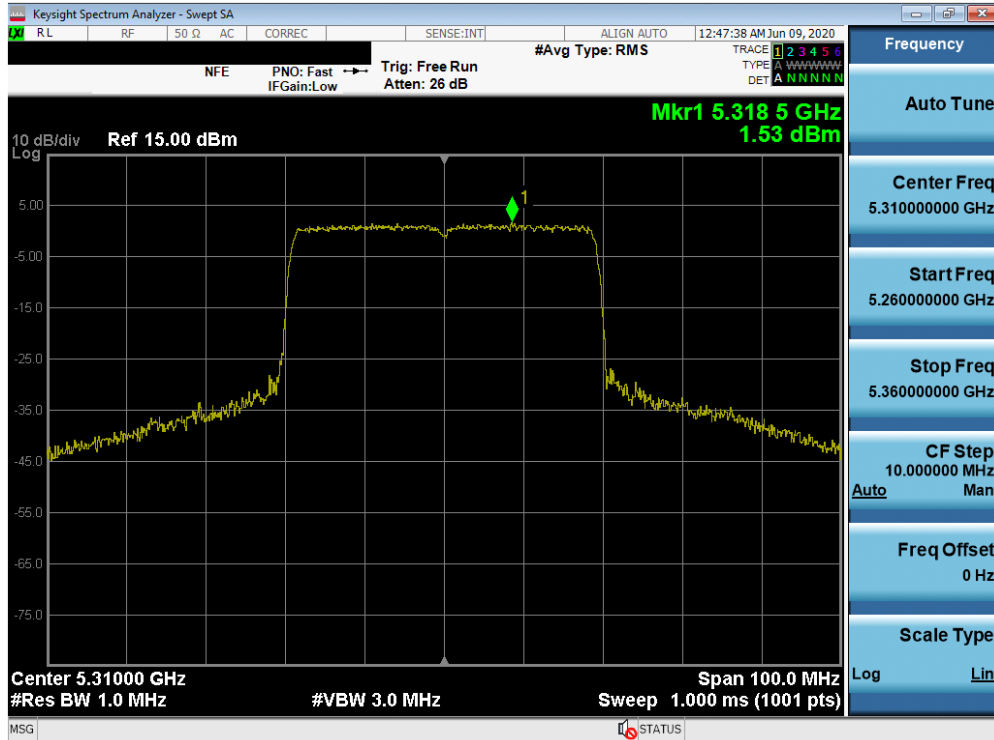


Plot 7-144. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 64)

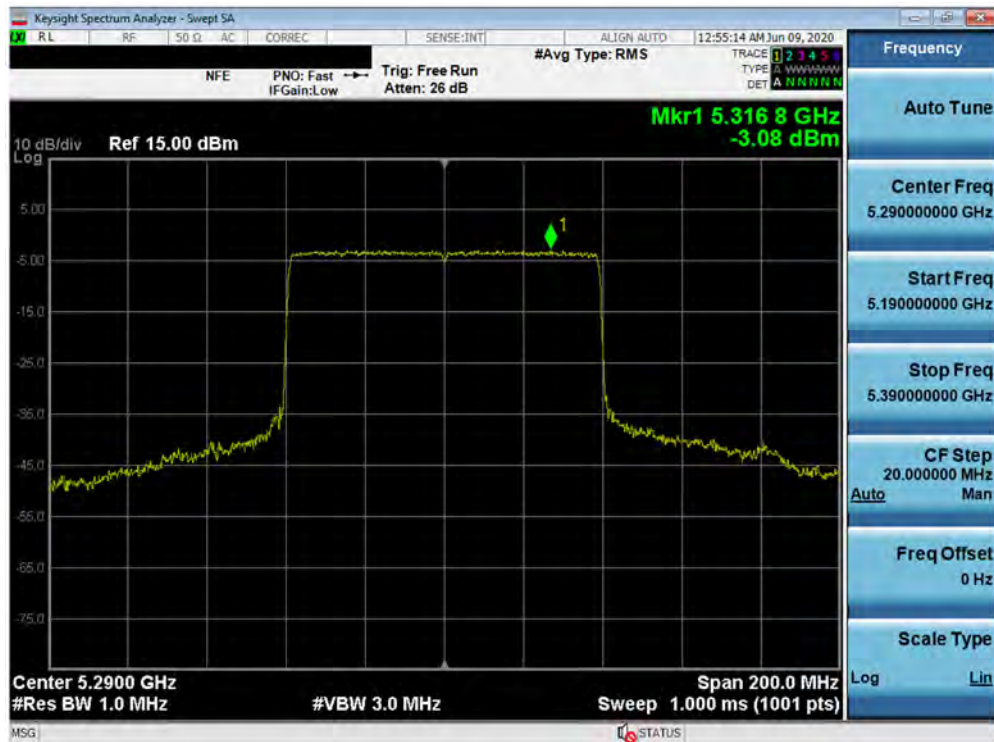


Plot 7-145. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 54)

| | | | | |
|---|---|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSMF707U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M2005040080-08.A3L | Test Dates: 05/04 - 07/06/2020 | EUT Type: Portable Handset | | Page 122 of 271 |

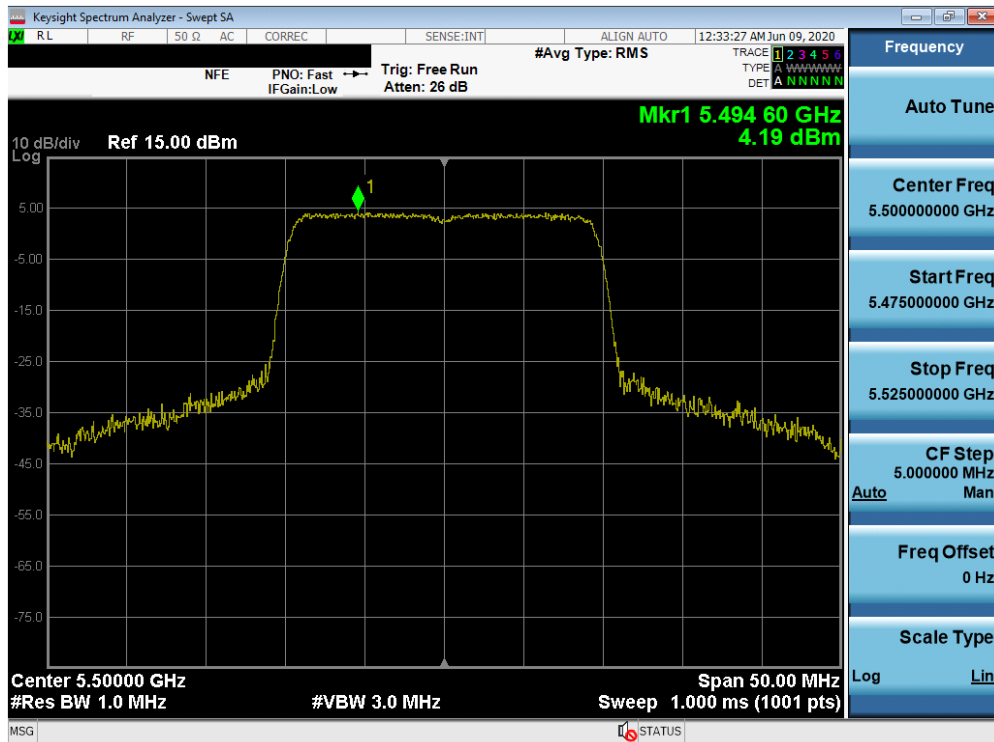


Plot 7-146. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 62)

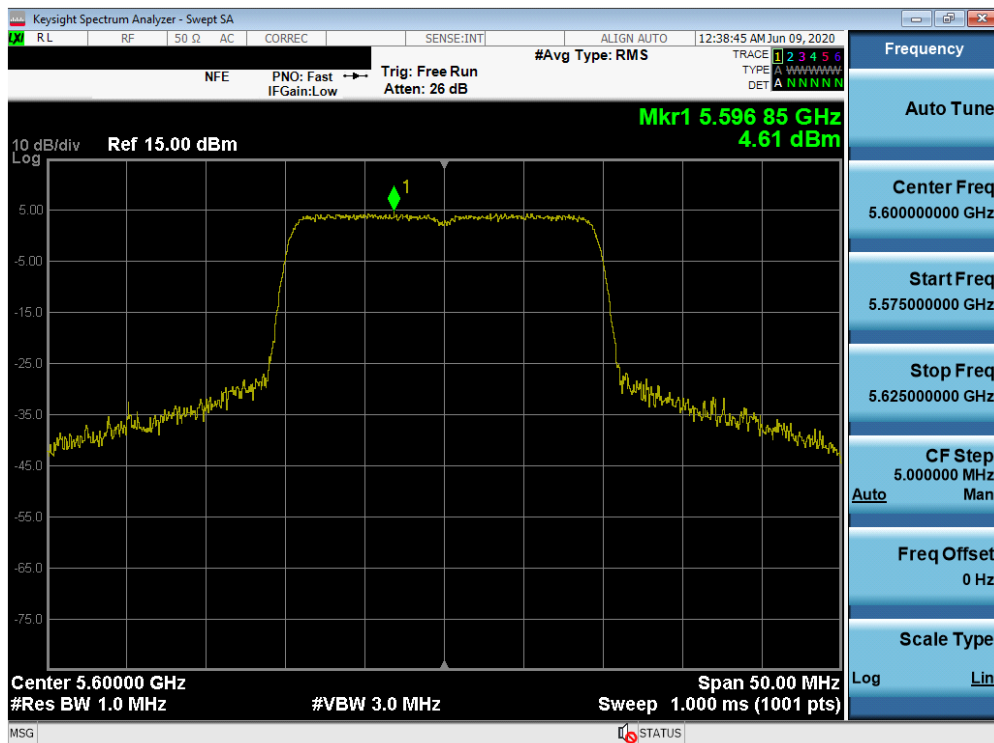


Plot 7-147. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 58)

| | | | | |
|---|---|---------------------------------------|---|---------------------------------|
| FCC ID: A3LSMF707U |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M2005040080-08.A3L | Test Dates: 05/04 - 07/06/2020 | EUT Type: Portable Handset | | Page 123 of 271 |

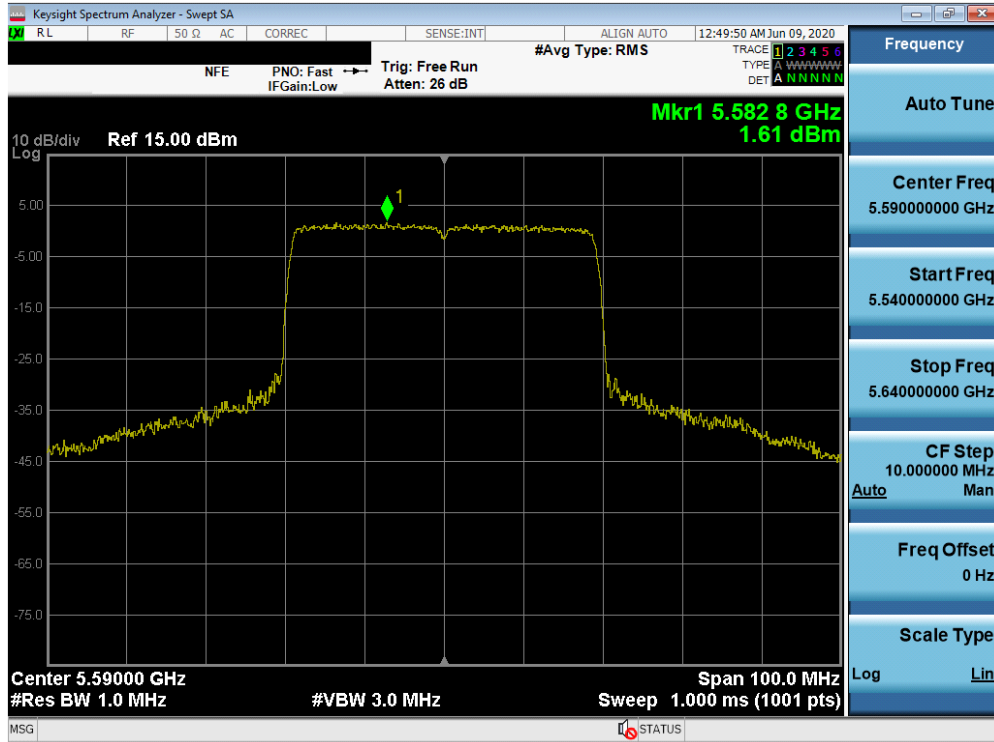


Plot 7-148. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 100)

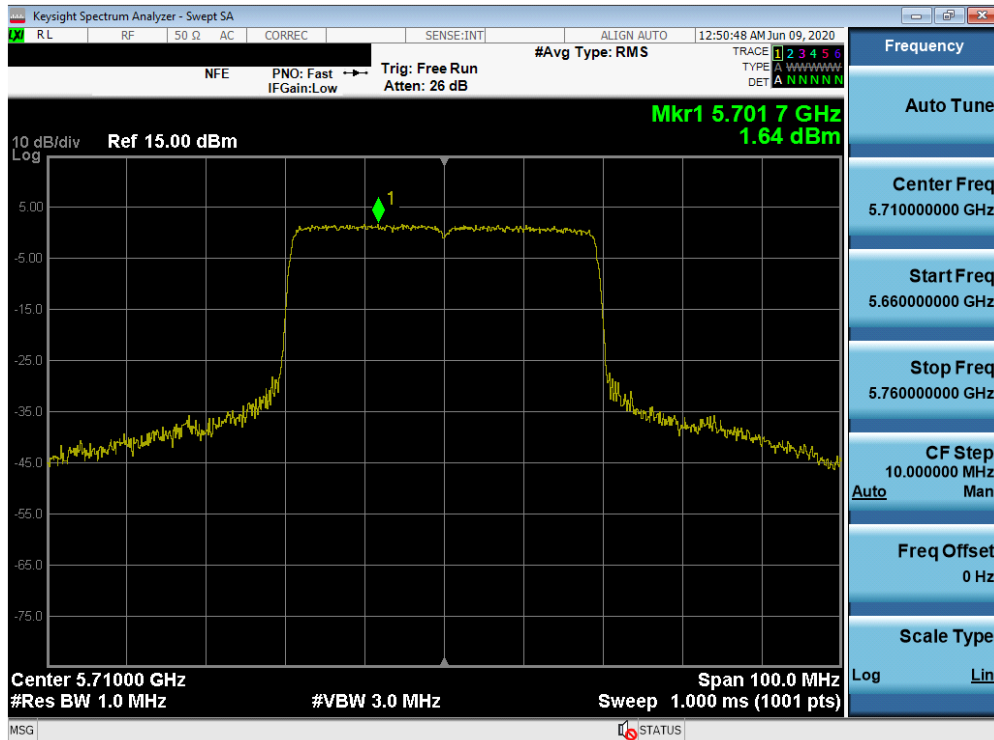


Plot 7-149. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 120)

| | | | | |
|---|---|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSMF707U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M2005040080-08.A3L | Test Dates: 05/04 - 07/06/2020 | EUT Type: Portable Handset | | Page 124 of 271 |

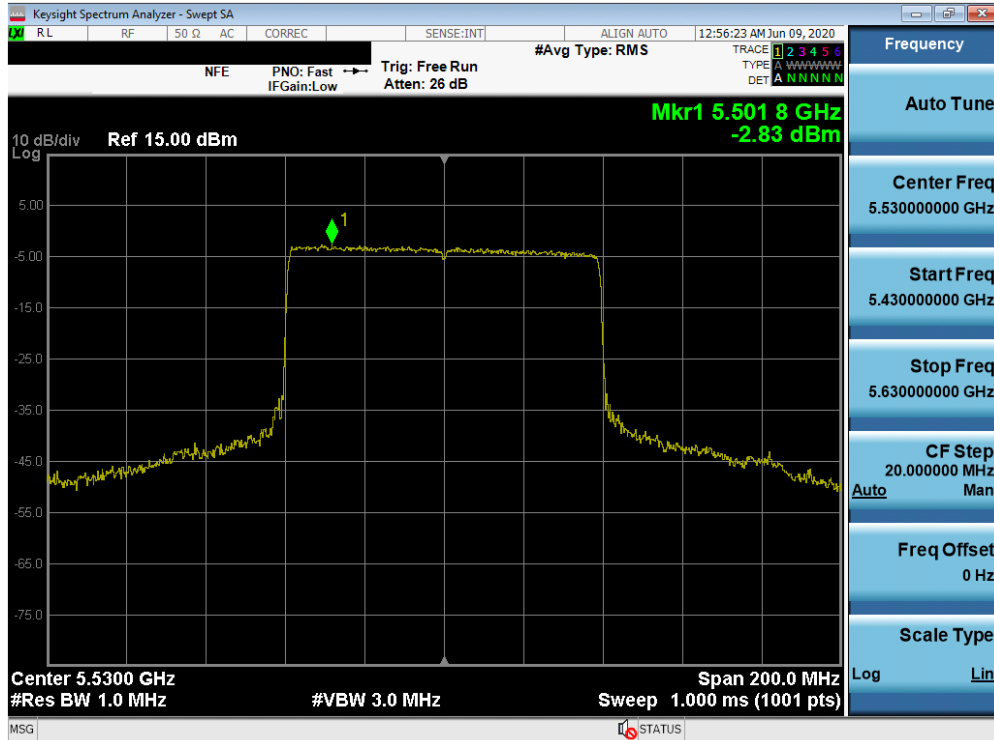


Plot 7-152. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 118)

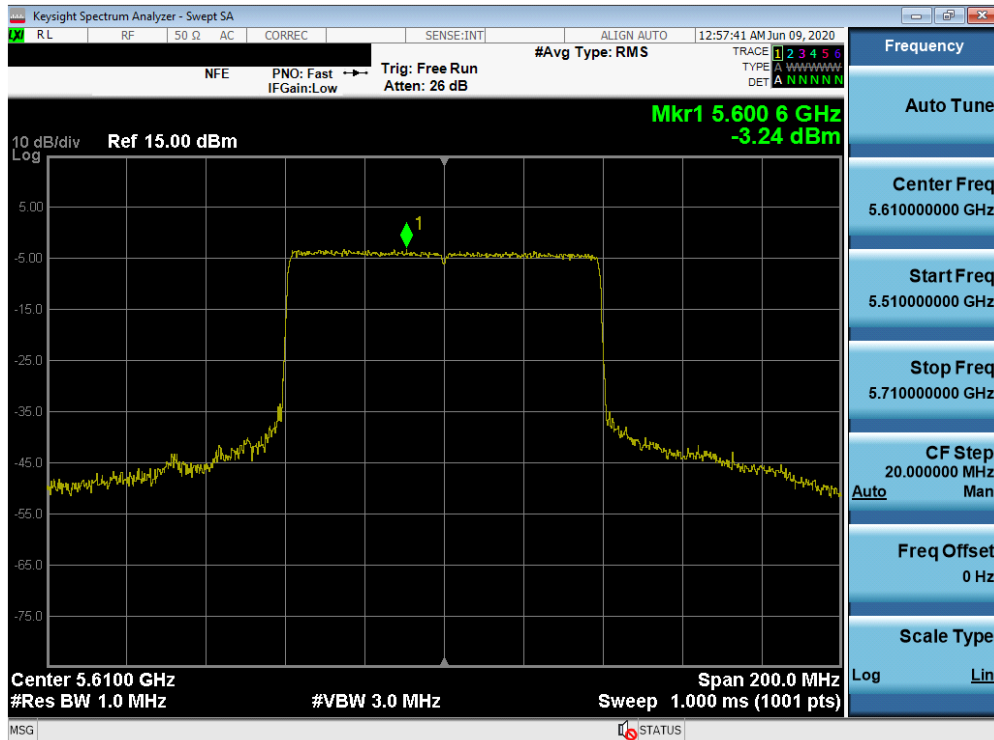


Plot 7-153. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 142)

| | | | | |
|---|---|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSMF707U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M2005040080-08.A3L | Test Dates: 05/04 - 07/06/2020 | EUT Type: Portable Handset | | Page 126 of 271 |

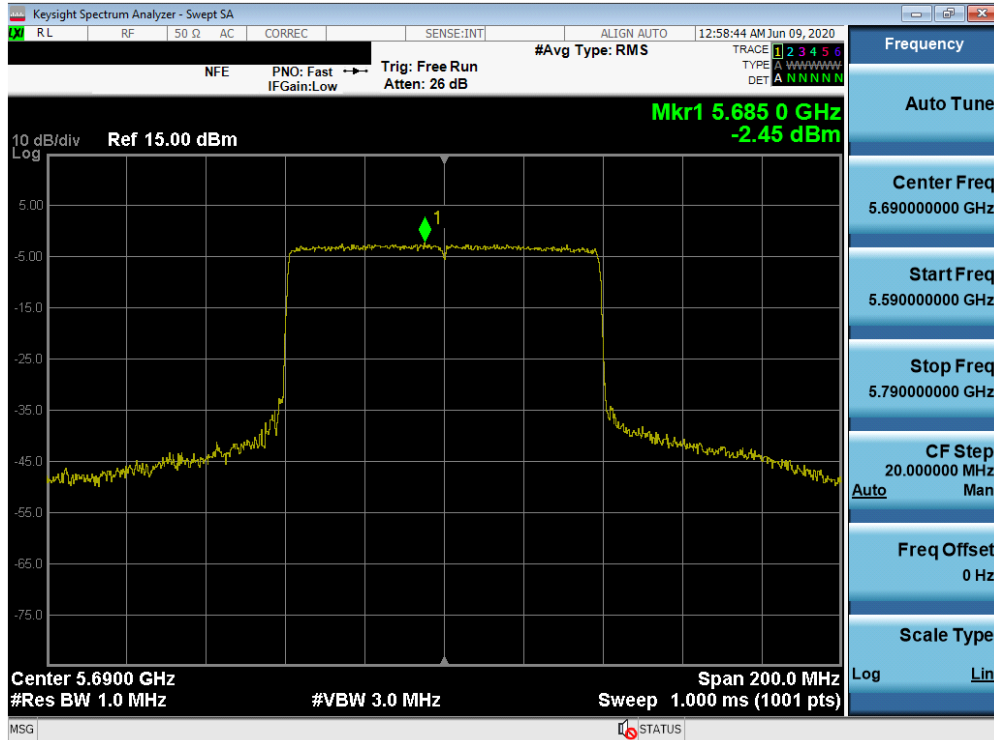


Plot 7-154. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 106)



Plot 7-155. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 122)

| | | | | |
|---|---|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSMF707U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M2005040080-08.A3L | Test Dates: 05/04 - 07/06/2020 | EUT Type: Portable Handset | | Page 127 of 271 |



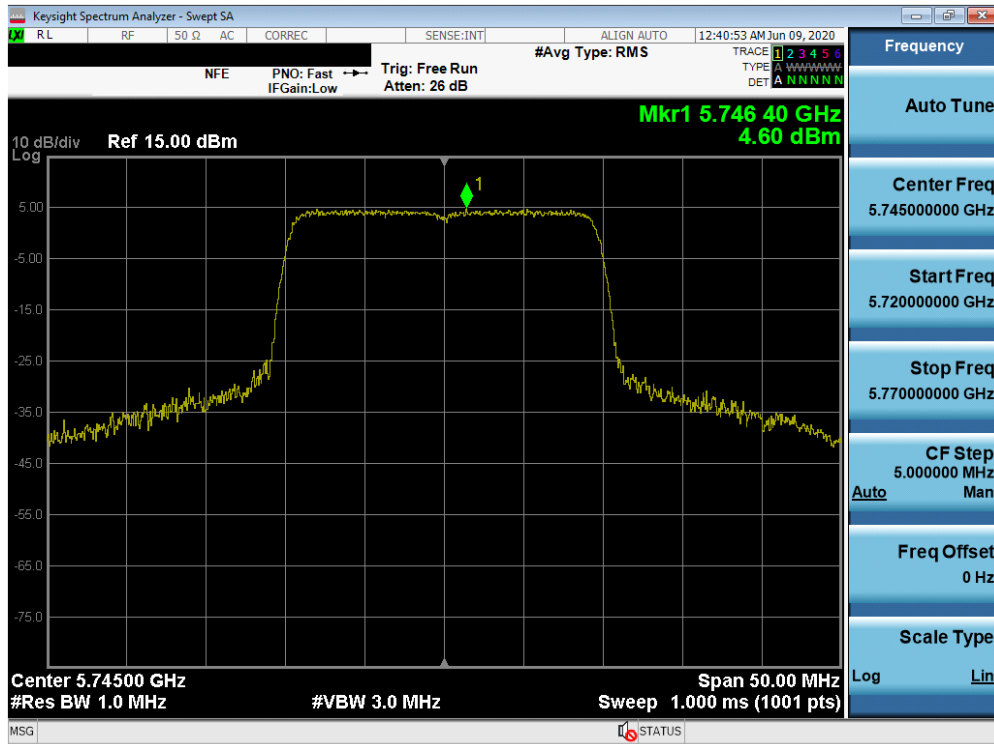
Plot 7-156. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 138)

| | | | | |
|---|---|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSMF707U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M2005040080-08.A3L | Test Dates: 05/04 - 07/06/2020 | EUT Type: Portable Handset | | Page 128 of 271 |

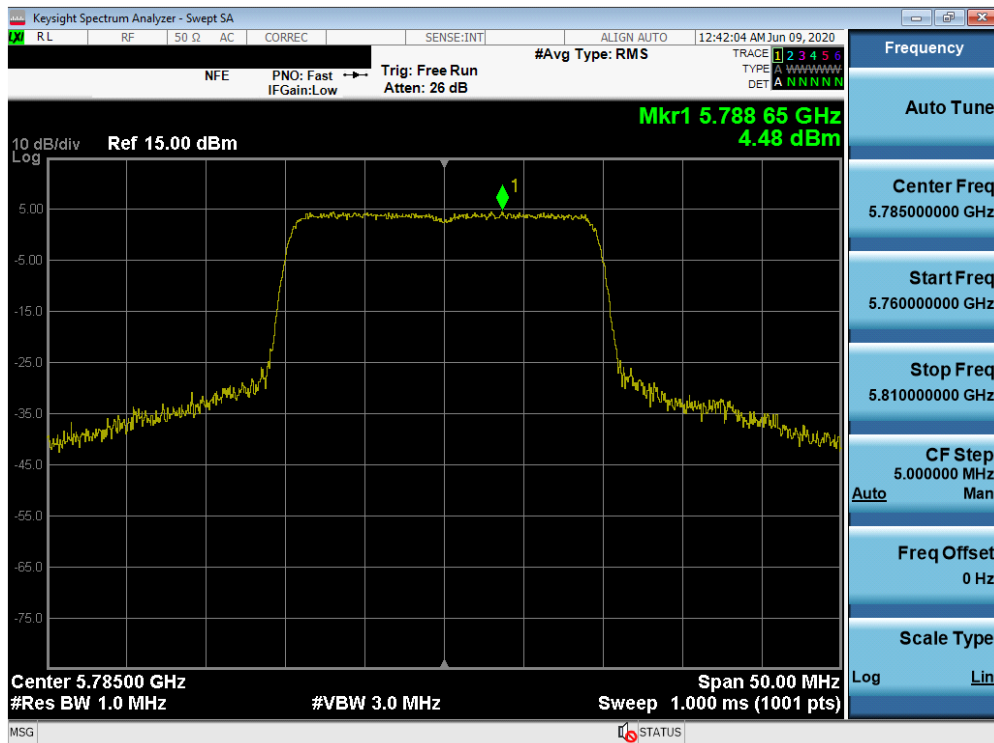
| | Frequency [MHz] | Channel No. | 802.11 Mode | Tones | Data Rate [Mbps] | Measured Power Density [dBm] | Max Permissible Power Density | Margin [dB] |
|---------------|-----------------|-------------|-------------|-------|------------------|------------------------------|-------------------------------|-------------|
| Band 3 | 5745 | 149 | ax (20MHz) | 242T | MCS0 | 4.60 | 30.00 | -25.40 |
| | 5785 | 157 | ax (20MHz) | 242T | MCS0 | 4.48 | 30.00 | -25.52 |
| | 5825 | 165 | ax (20MHz) | 242T | MCS0 | 4.12 | 30.00 | -25.88 |
| | 5755 | 151 | ax (40MHz) | 484T | MCS0 | 1.49 | 30.00 | -28.51 |
| | 5795 | 159 | ax (40MHz) | 484T | MCS0 | 1.49 | 30.00 | -28.51 |
| | 5775 | 155 | ax (80MHz) | 996T | MCS0 | -2.47 | 30.00 | -32.47 |

Table 7-60. Band 3 Conducted Power Spectral Density Measurements SISO ANT1 (Full Tones)

| | | | | |
|--|---|---|---|--|
| FCC ID: A3LSMF707U |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M2005040080-08.A3L | Test Dates: 05/04 - 07/06/2020 | EUT Type: Portable Handset | | Page 129 of 271 |

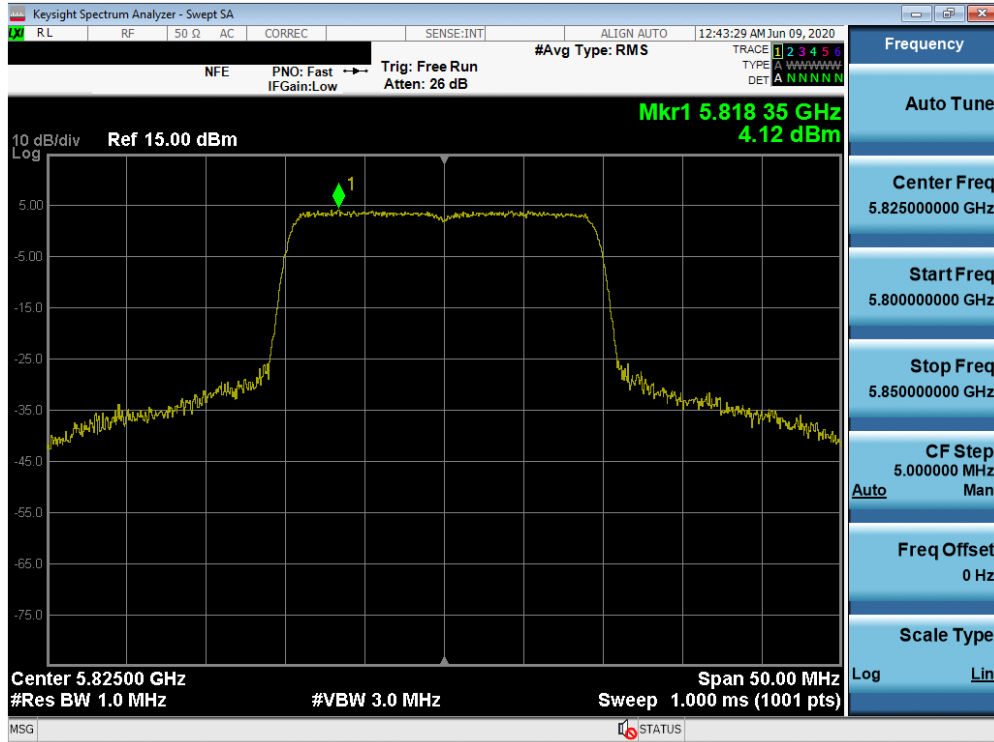


Plot 7-157. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 149)

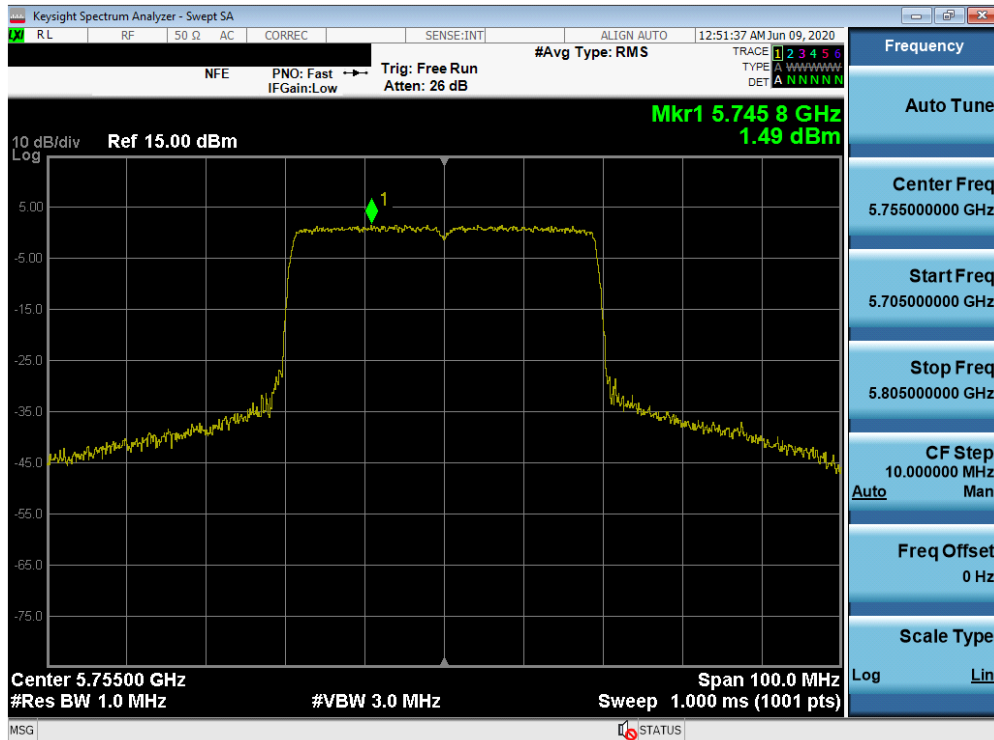


Plot 7-158. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 157)

| | | | | |
|---|---|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSMF707U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M2005040080-08.A3L | Test Dates: 05/04 - 07/06/2020 | EUT Type: Portable Handset | | Page 130 of 271 |

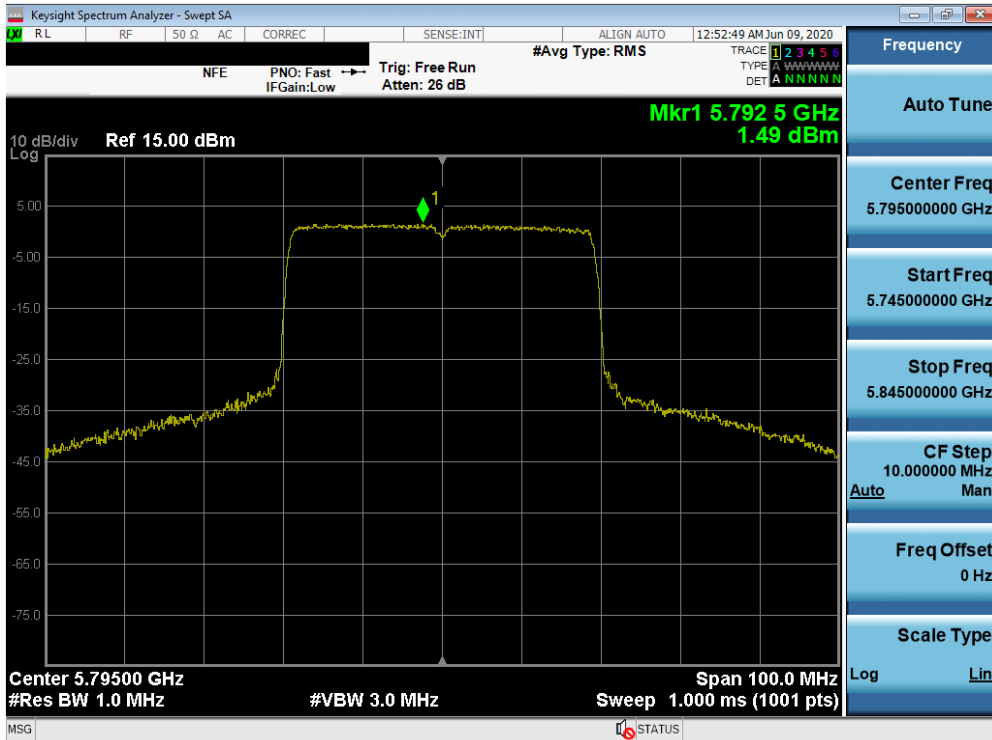


Plot 7-159. Power Spectral Density Plot SISO ANT1 (20 MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 165)

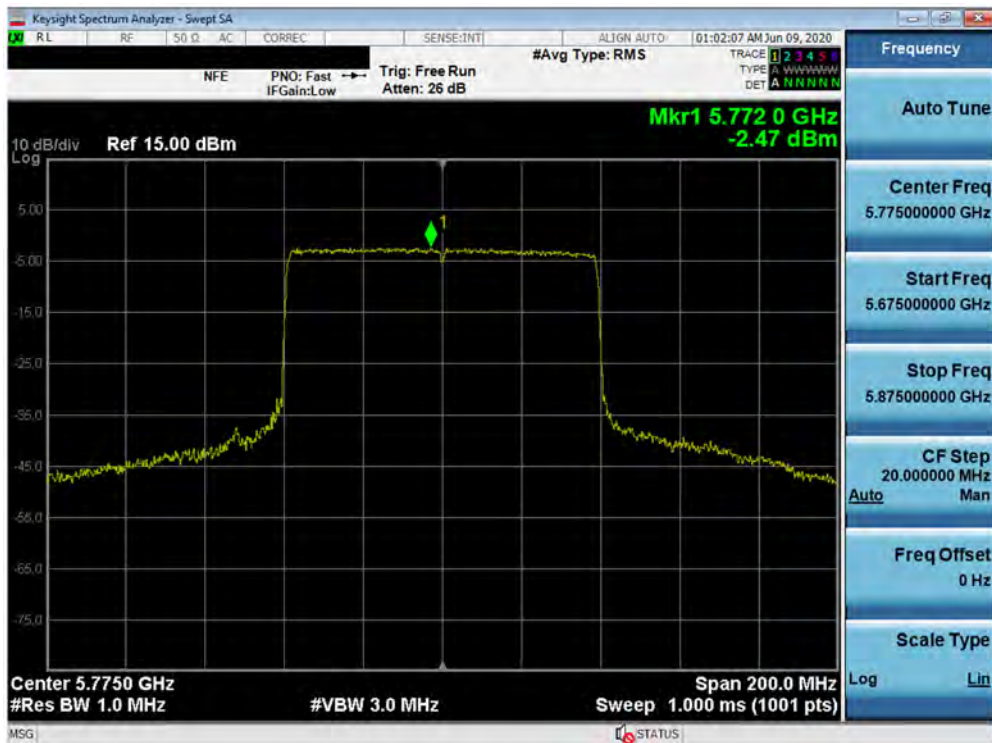


Plot 7-160. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 151)

| | | | | |
|---|---|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSMF707U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M2005040080-08.A3L | Test Dates: 05/04 - 07/06/2020 | EUT Type: Portable Handset | | Page 131 of 271 |



Plot 7-161. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 159)



Plot 7-162. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 155)

| | | | | |
|---|---|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSMF707U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M2005040080-08.A3L | Test Dates: 05/04 - 07/06/2020 | EUT Type: Portable Handset | | Page 132 of 271 |

SISO Antenna-2 Power Spectral Density Measurements (26 Tones)

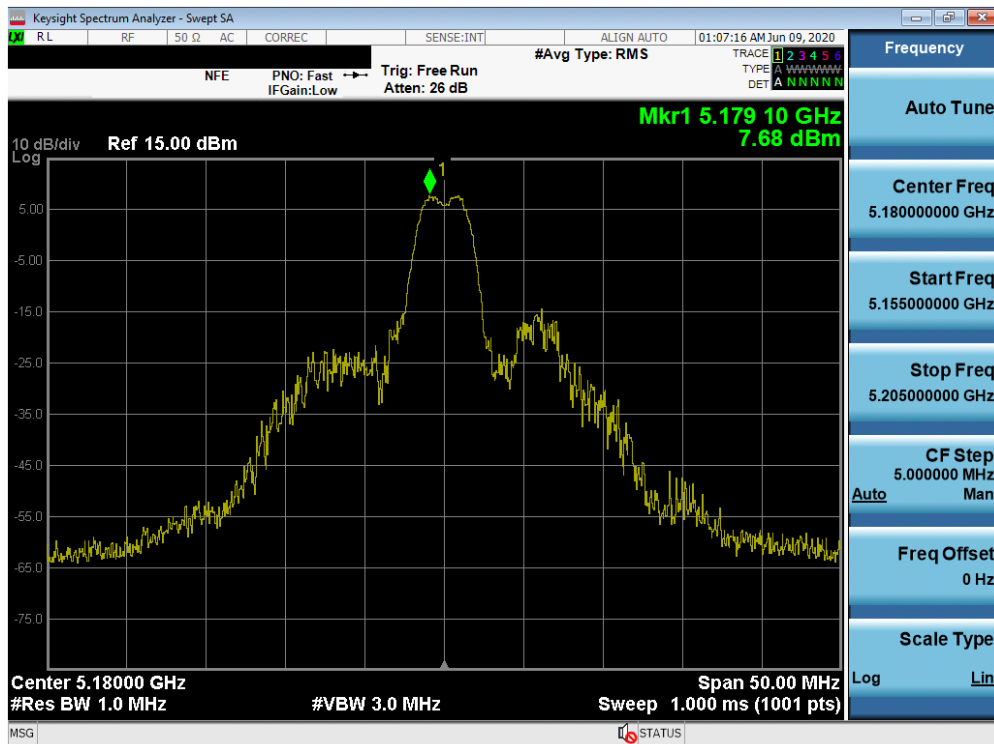
| | Frequency [MHz] | Channel No. | 802.11 Mode | Tones | Data Rate [Mbps] | Measured Power Density [dBm] | Max Power Density [dBm/MHz] | Margin [dB] |
|---------|-----------------|-------------|-------------|-------|------------------|------------------------------|-----------------------------|-------------|
| Band 1 | 5180 | 36 | ax (20MHz) | 26T | MCS0 | 7.68 | 11.0 | -3.32 |
| | 5200 | 40 | ax (20MHz) | 26T | MCS0 | 8.01 | 11.0 | -2.99 |
| | 5240 | 48 | ax (20MHz) | 26T | MCS0 | 9.03 | 11.0 | -1.97 |
| | 5190 | 38 | ax (40MHz) | 26T | MCS0 | 8.14 | 11.0 | -2.86 |
| | 5230 | 46 | ax (40MHz) | 26T | MCS0 | 8.74 | 11.0 | -2.26 |
| | 5210 | 42 | ax (80MHz) | 26T | MCS0 | 8.44 | 11.0 | -2.56 |
| Band 2A | 5260 | 52 | ax (20MHz) | 26T | MCS0 | 7.90 | 11.0 | -3.10 |
| | 5280 | 56 | ax (20MHz) | 26T | MCS0 | 9.38 | 11.0 | -1.62 |
| | 5320 | 64 | ax (20MHz) | 26T | MCS0 | 8.09 | 11.0 | -2.92 |
| | 5270 | 54 | ax (40MHz) | 26T | MCS0 | 8.39 | 11.0 | -2.62 |
| | 5310 | 62 | ax (40MHz) | 26T | MCS0 | 8.34 | 11.0 | -2.66 |
| | 5290 | 58 | ax (80MHz) | 26T | MCS0 | 9.87 | 11.0 | -1.13 |
| Band 2C | 5500 | 100 | ax (20MHz) | 26T | MCS0 | 7.83 | 11.0 | -3.18 |
| | 5600 | 120 | ax (20MHz) | 26T | MCS0 | 7.82 | 11.0 | -3.18 |
| | 5720 | 144 | ax (20MHz) | 26T | MCS0 | 8.41 | 11.0 | -2.59 |
| | 5510 | 102 | ax (40MHz) | 26T | MCS0 | 8.47 | 11.0 | -2.53 |
| | 5590 | 118 | ax (40MHz) | 26T | MCS0 | 8.01 | 11.0 | -2.99 |
| | 5710 | 142 | ax (40MHz) | 26T | MCS0 | 8.37 | 11.0 | -2.63 |
| | 5530 | 106 | ax (80MHz) | 26T | MCS0 | 8.01 | 11.0 | -2.99 |
| | 5610 | 122 | ax (80MHz) | 26T | MCS0 | 7.40 | 11.0 | -3.60 |
| | 5690 | 138 | ax (80MHz) | 26T | MCS0 | 8.54 | 11.0 | -2.46 |

Table 7-61. Conducted Power Spectral Density Measurements SISO ANT2 (26 Tones)

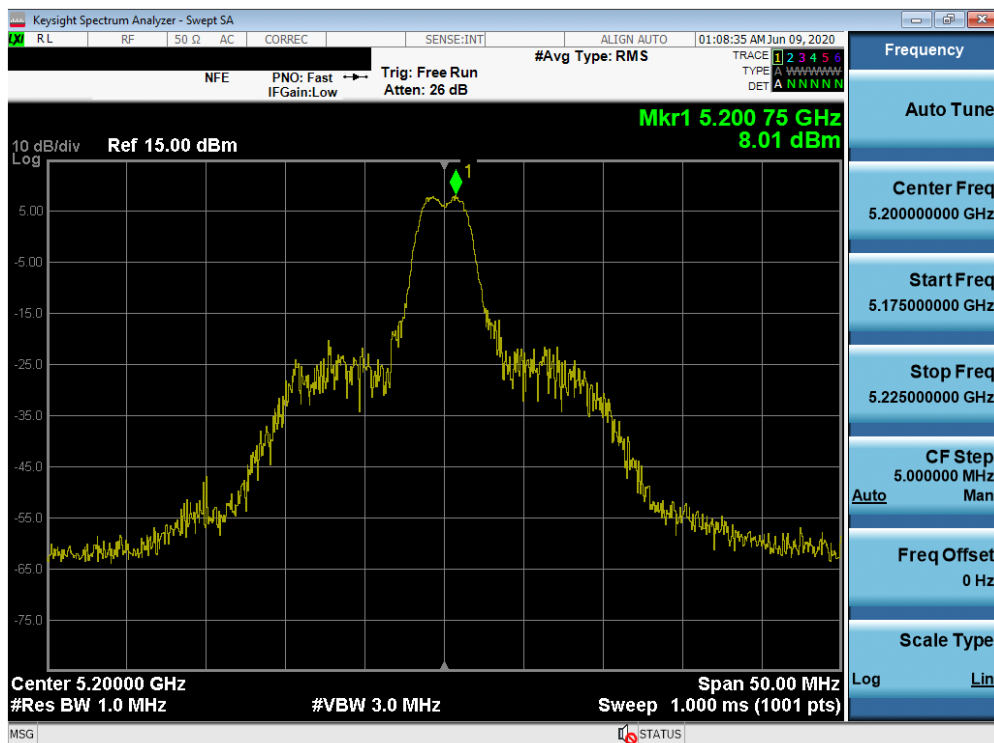
| | Frequency [MHz] | Channel No. | 802.11 Mode | Tones | Data Rate [Mbps] | Measured Power Density [dBm] | Antenna Gain [dBi] | e.i.r.p. Power Density [dBm/MHz] | ISED Max e.i.r.p. Power Density [dBm/MHz] | Margin [dB] |
|--------|-----------------|-------------|-------------|-------|------------------|------------------------------|--------------------|----------------------------------|---|-------------|
| Band 1 | 5180 | 36 | ax (20MHz) | 26T | MCS0 | 7.68 | -13.40 | -5.72 | 10.0 | -15.72 |
| | 5200 | 40 | ax (20MHz) | 26T | MCS0 | 8.01 | -13.40 | -5.39 | 10.0 | -15.39 |
| | 5240 | 48 | ax (20MHz) | 26T | MCS0 | 9.03 | -11.70 | -2.67 | 10.0 | -12.67 |
| | 5190 | 38 | ax (40MHz) | 26T | MCS0 | 8.14 | -13.40 | -5.26 | 10.0 | -15.26 |
| | 5230 | 46 | ax (40MHz) | 26T | MCS0 | 8.74 | -11.70 | -2.96 | 10.0 | -12.96 |
| | 5210 | 42 | ax (80MHz) | 26T | MCS0 | 8.44 | -11.70 | -3.26 | 10.0 | -13.26 |

Table 7-62. Band 1 e.i.r.p. Conducted Power Spectral Density Measurements (ISED 26 Tones)

| | | | | |
|---|---|---------------------------------------|---|---------------------------------|
| FCC ID: A3LSMF707U |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M2005040080-08.A3L | Test Dates: 05/04 - 07/06/2020 | EUT Type: Portable Handset | | Page 133 of 271 |



Plot 7-163. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 36)

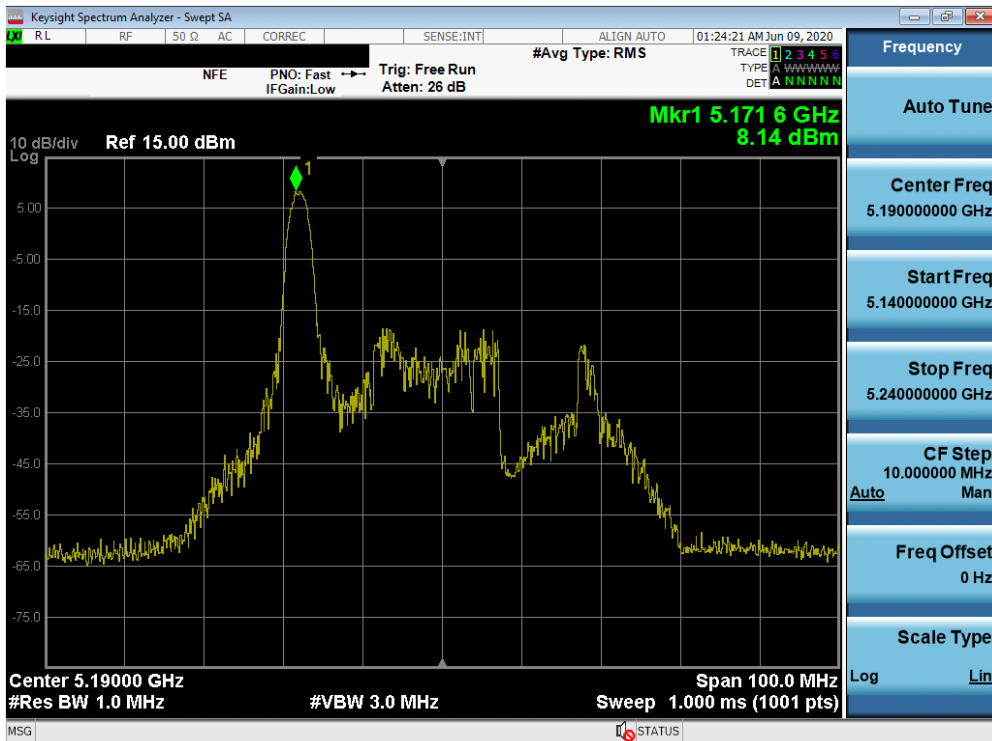


Plot 7-164. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 40)

| | | | | |
|---|---|---------------------------------------|---|---------------------------------|
| FCC ID: A3LSMF707U |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M2005040080-08.A3L | Test Dates: 05/04 - 07/06/2020 | EUT Type: Portable Handset | | Page 134 of 271 |

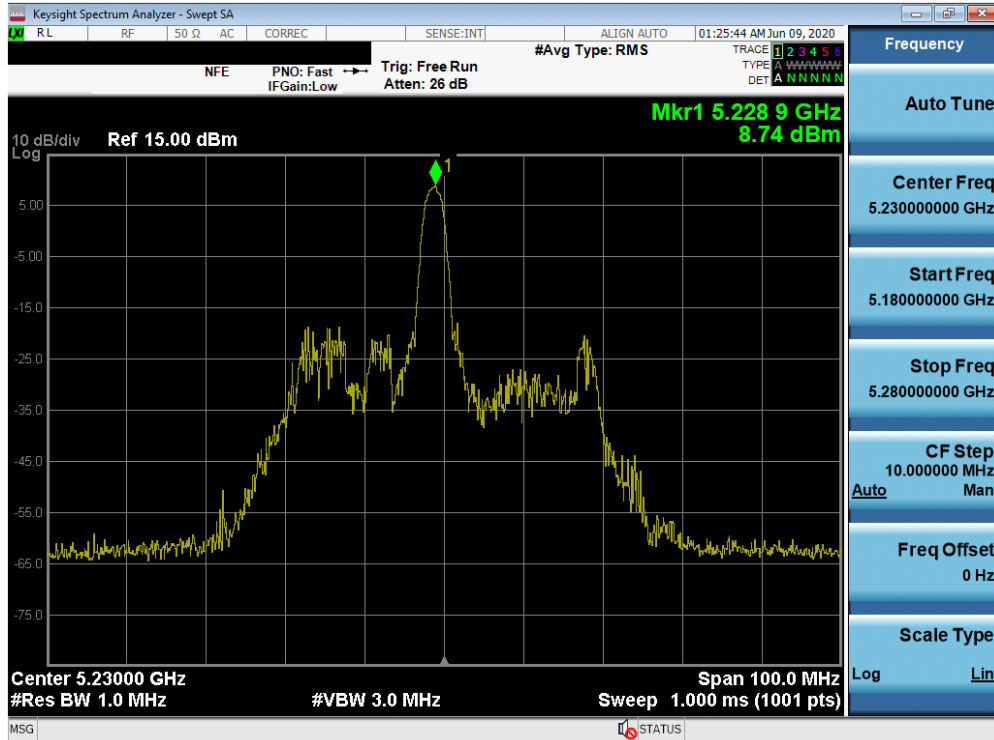


Plot 7-165. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 48)

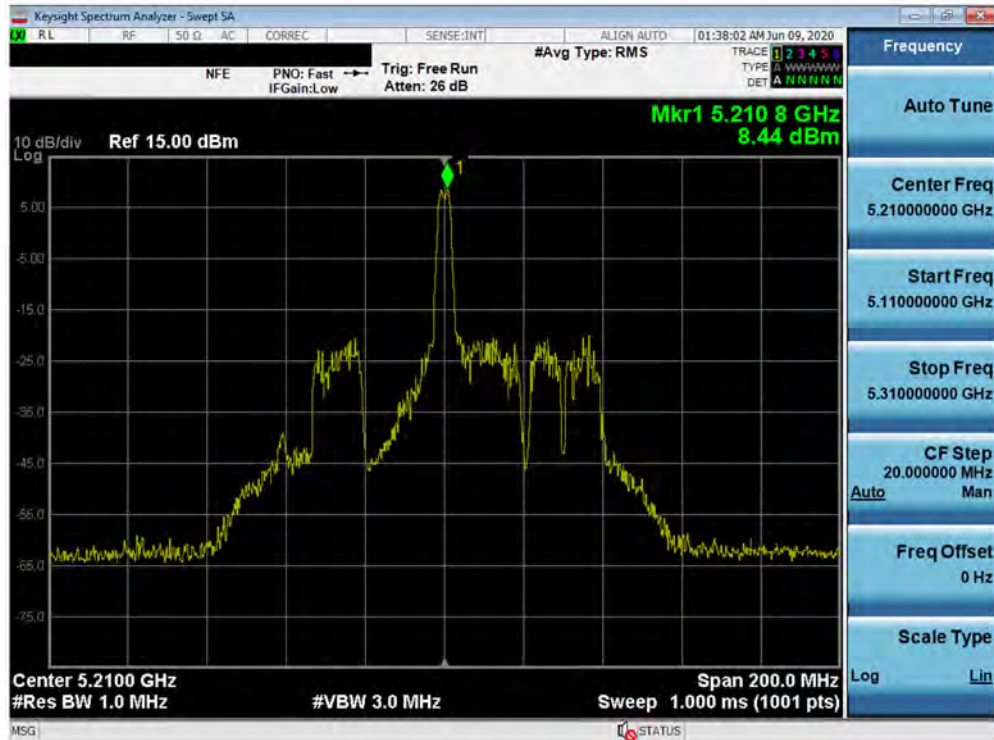


Plot 7-166. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 38)

| | | | | |
|---|---|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSMF707U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M2005040080-08.A3L | Test Dates: 05/04 - 07/06/2020 | EUT Type: Portable Handset | | Page 135 of 271 |

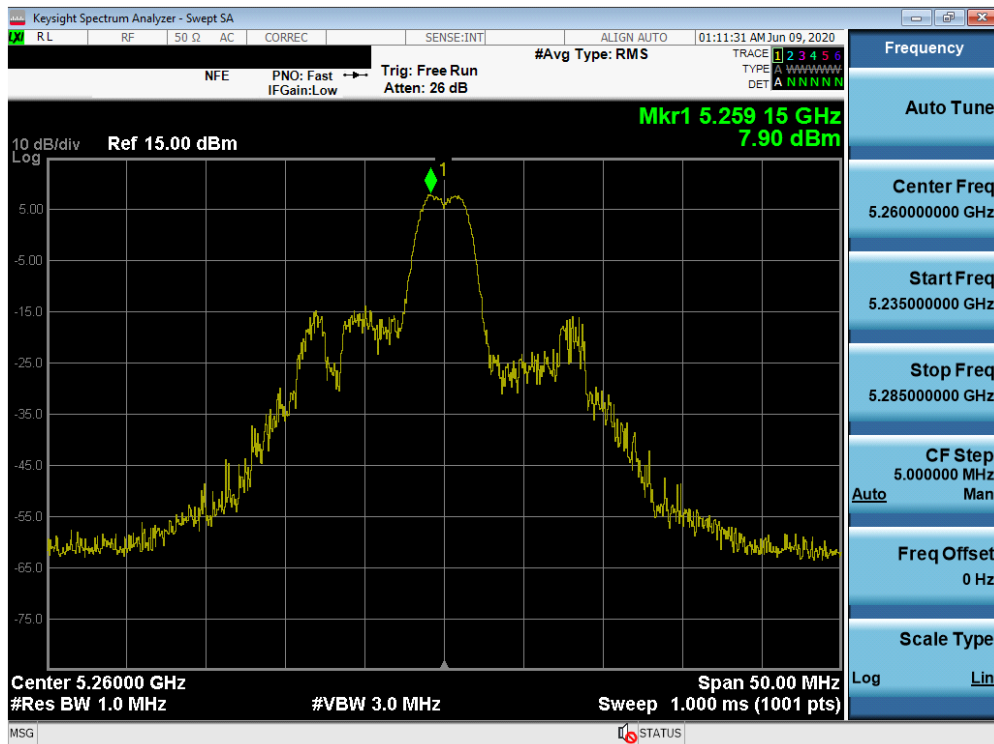


Plot 7-167. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 46)

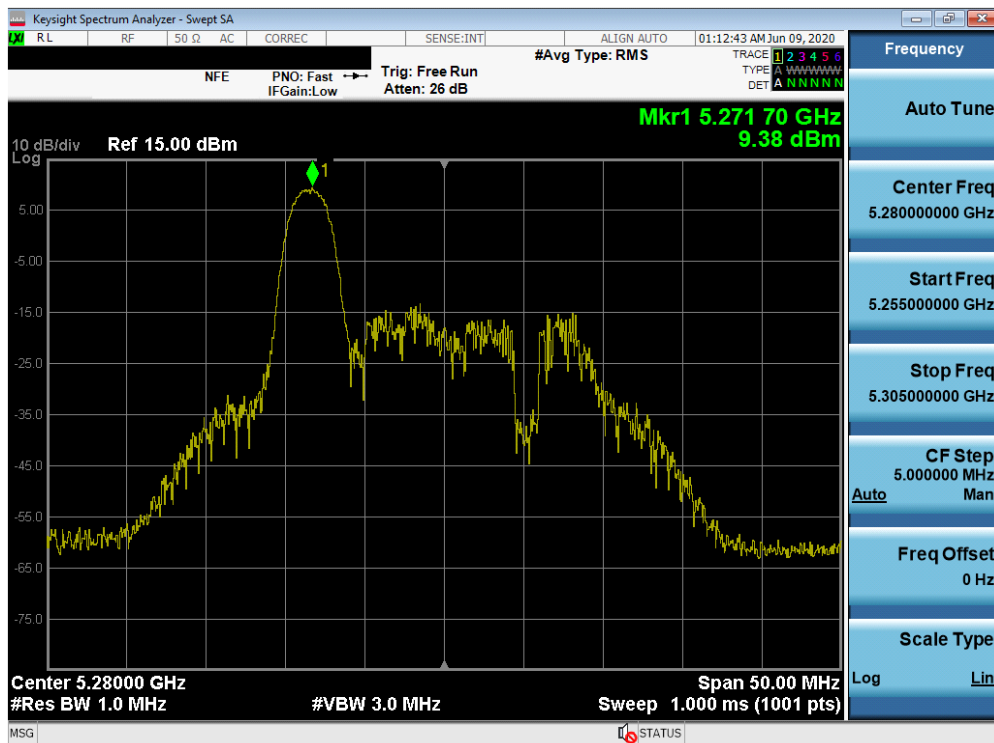


Plot 7-168. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 42)

| | | | | |
|---|---|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSMF707U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M2005040080-08.A3L | Test Dates: 05/04 - 07/06/2020 | EUT Type: Portable Handset | | Page 136 of 271 |

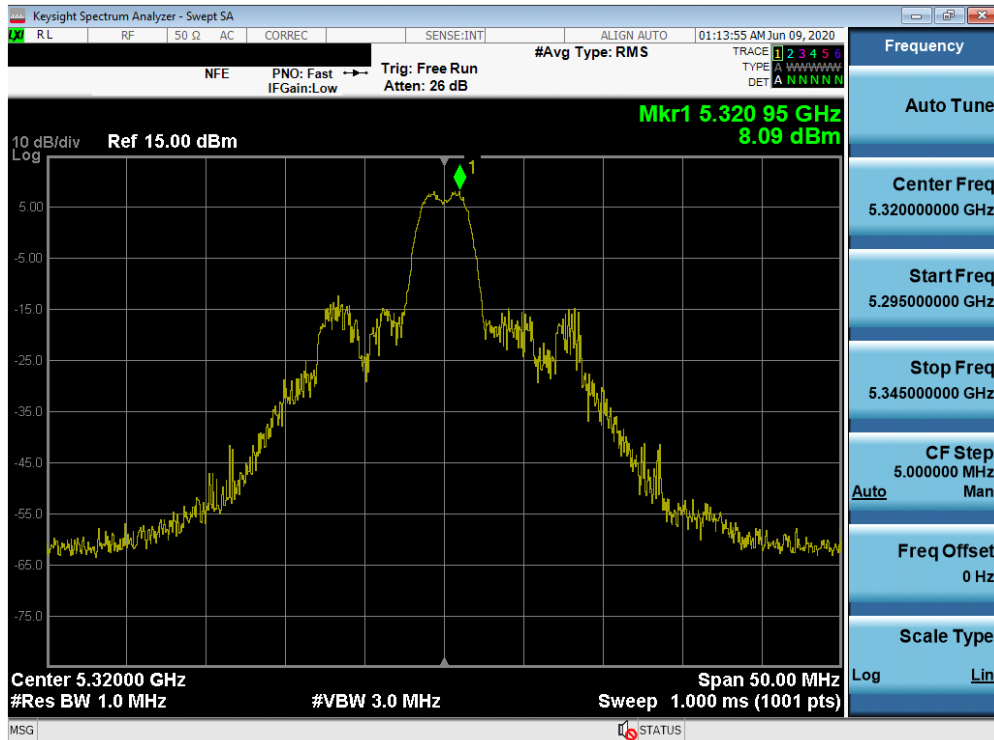


Plot 7-169. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 52)

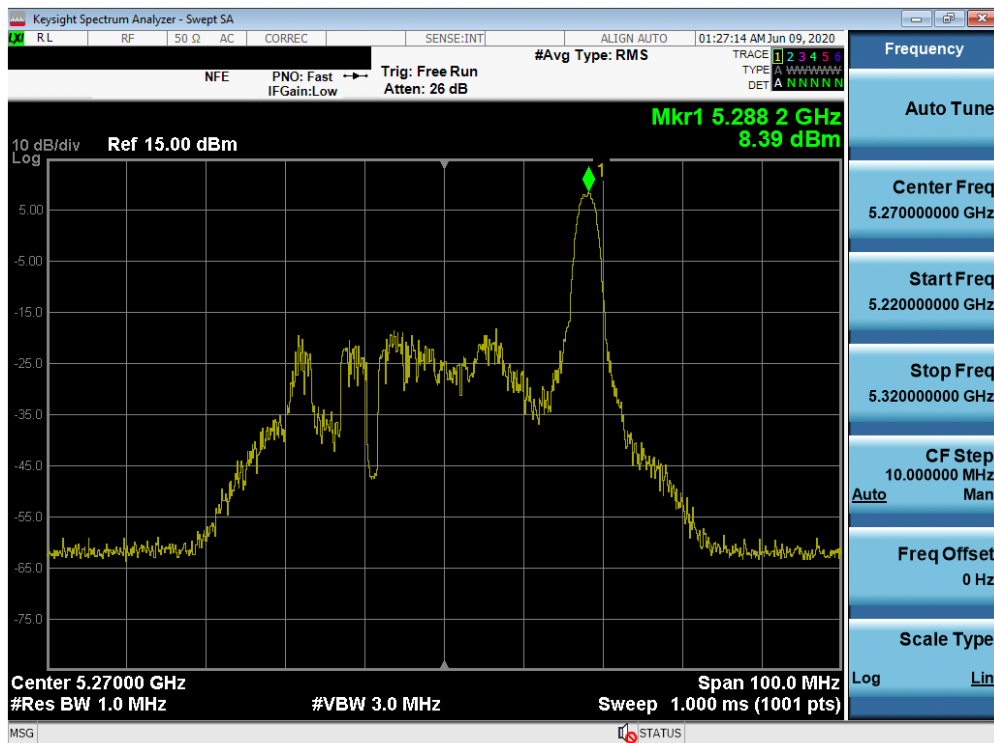


Plot 7-170. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 56)

| | | | | |
|---|---|---------------------------------------|---|---------------------------------|
| FCC ID: A3LSMF707U |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M2005040080-08.A3L | Test Dates: 05/04 - 07/06/2020 | EUT Type: Portable Handset | | Page 137 of 271 |

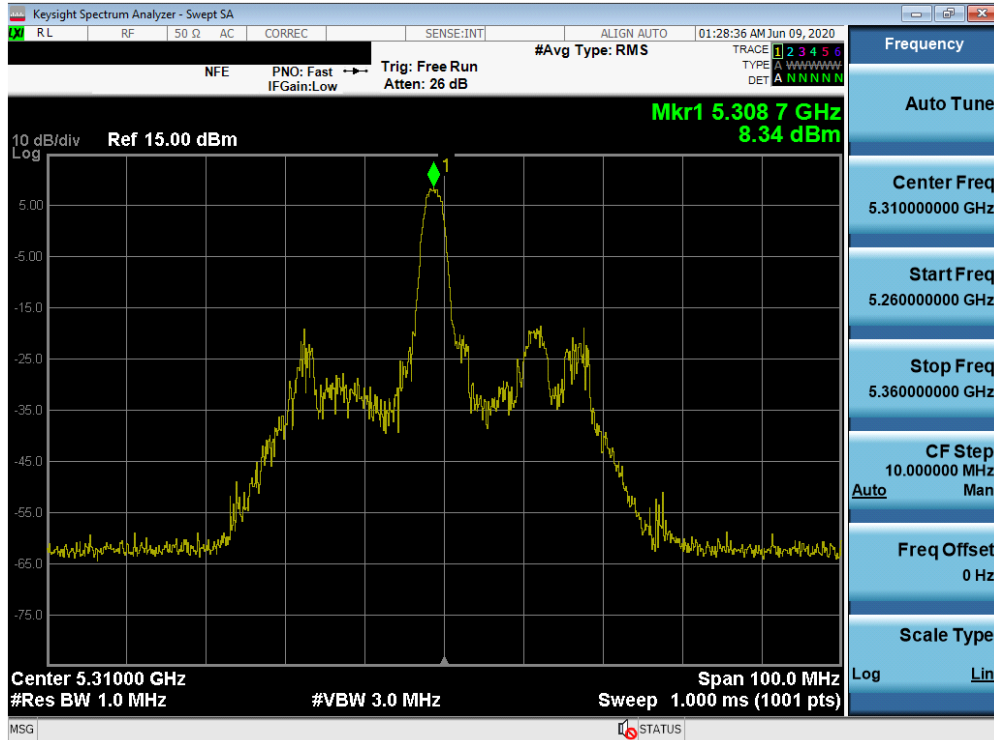


Plot 7-171. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 64)



Plot 7-172. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 54)

| | | | | |
|---|---|---------------------------------------|---|---------------------------------|
| FCC ID: A3LSMF707U |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M2005040080-08.A3L | Test Dates: 05/04 - 07/06/2020 | EUT Type: Portable Handset | | Page 138 of 271 |

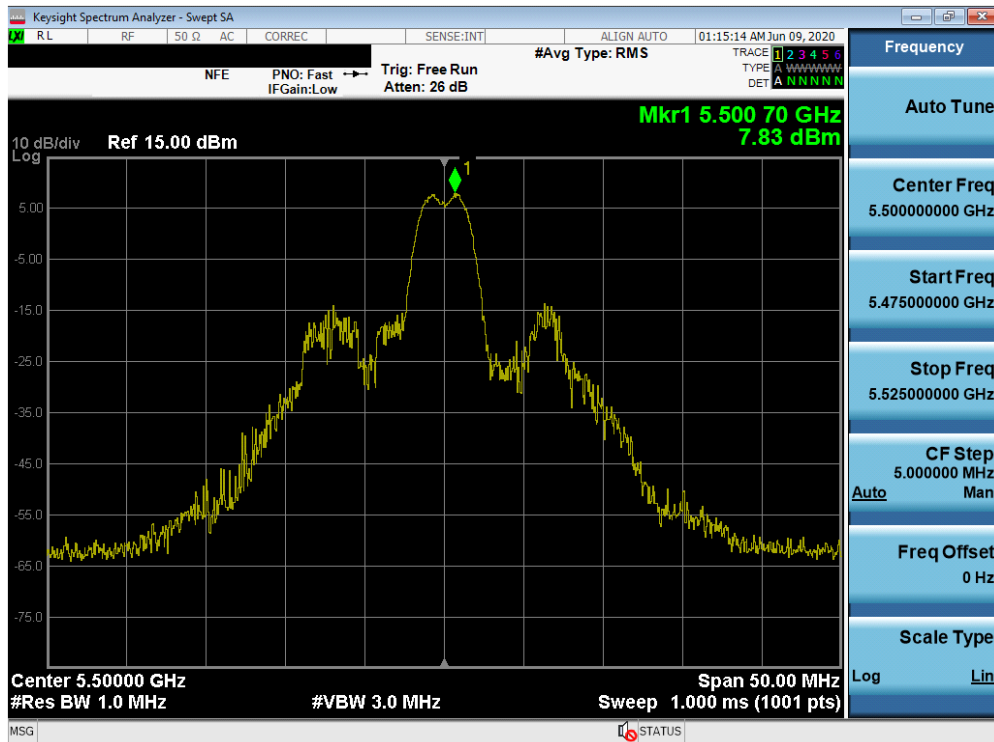


Plot 7-173. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 62)

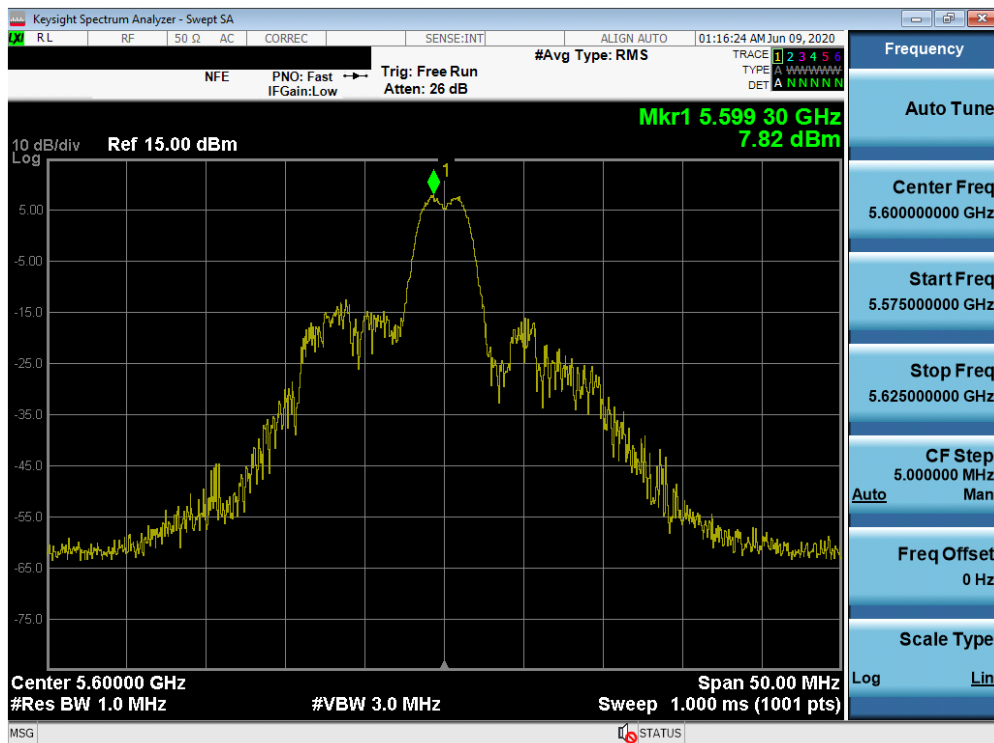


Plot 7-174. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 58)

| | | | | |
|---|---|---------------------------------------|---|---------------------------------|
| FCC ID: A3LSMF707U |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M2005040080-08.A3L | Test Dates: 05/04 - 07/06/2020 | EUT Type: Portable Handset | | Page 139 of 271 |

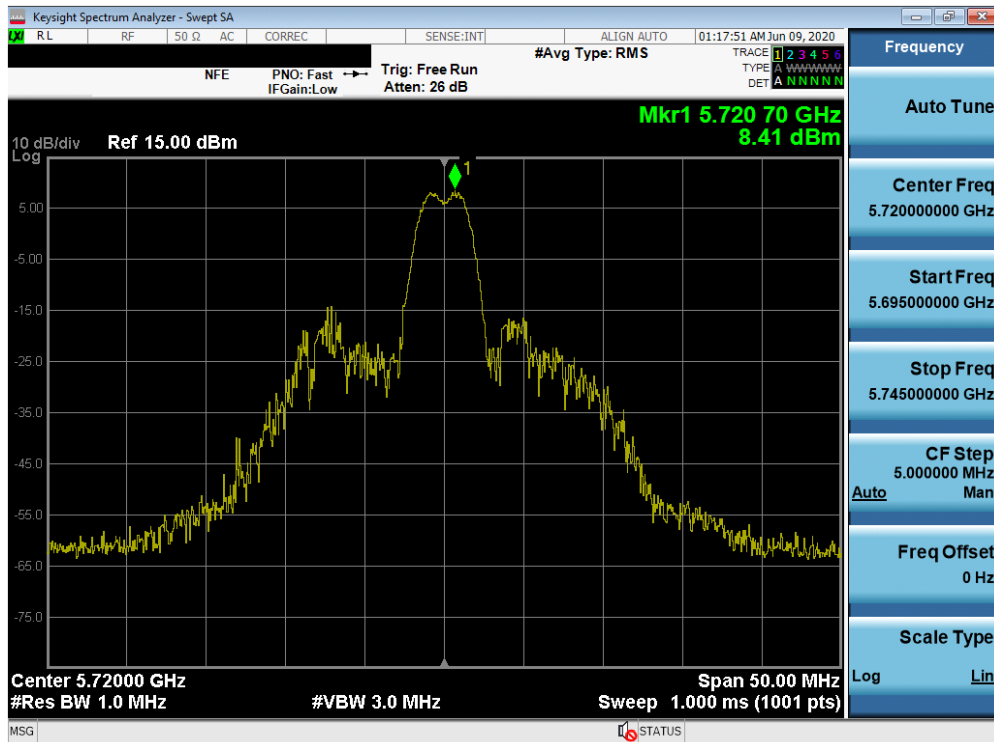


Plot 7-175. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 100)

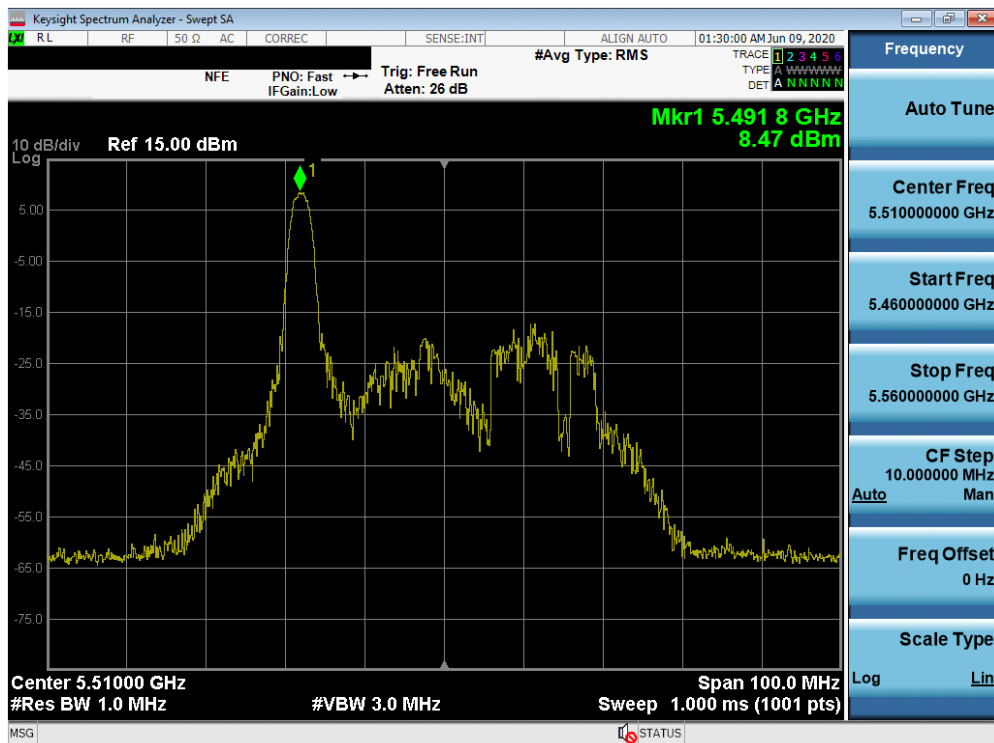


Plot 7-176. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 120)

| | | | | |
|---|---|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSMF707U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M2005040080-08.A3L | Test Dates: 05/04 - 07/06/2020 | EUT Type: Portable Handset | | Page 140 of 271 |

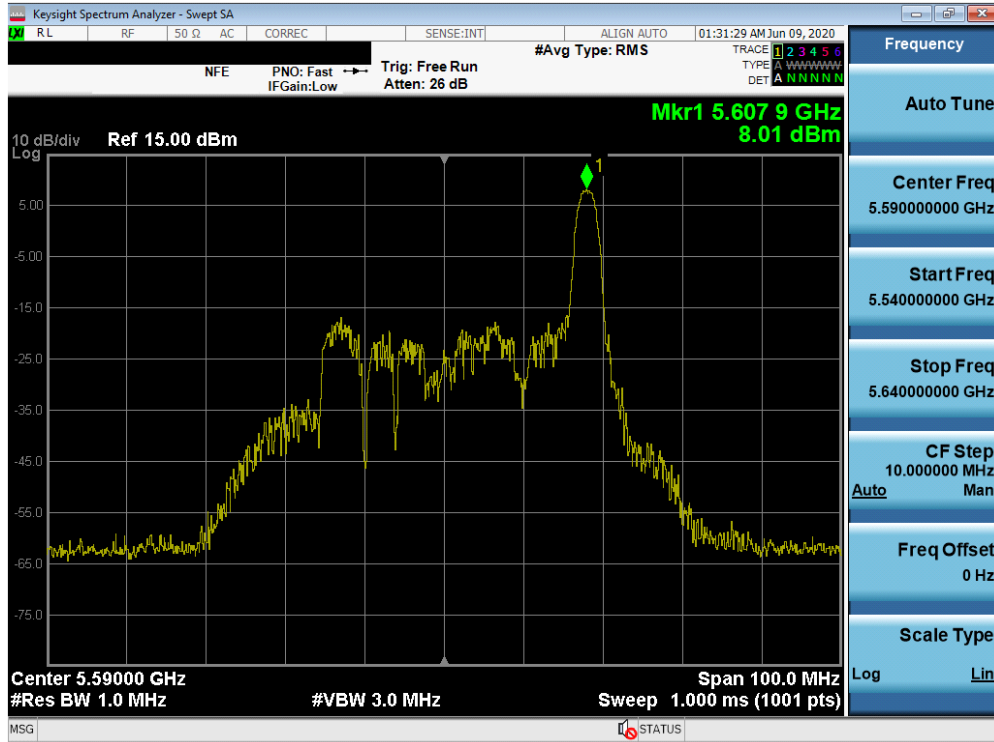


Plot 7-177. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 144)

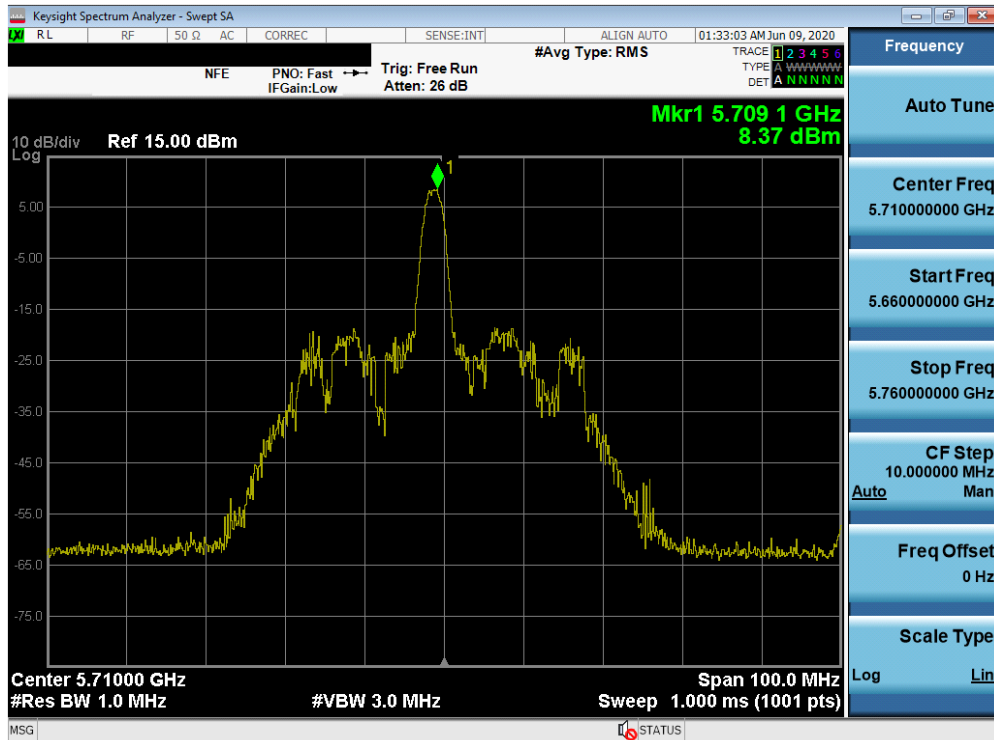


Plot 7-178. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 102)

| | | | | |
|---|---|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSMF707U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M2005040080-08.A3L | Test Dates: 05/04 - 07/06/2020 | EUT Type: Portable Handset | | Page 141 of 271 |

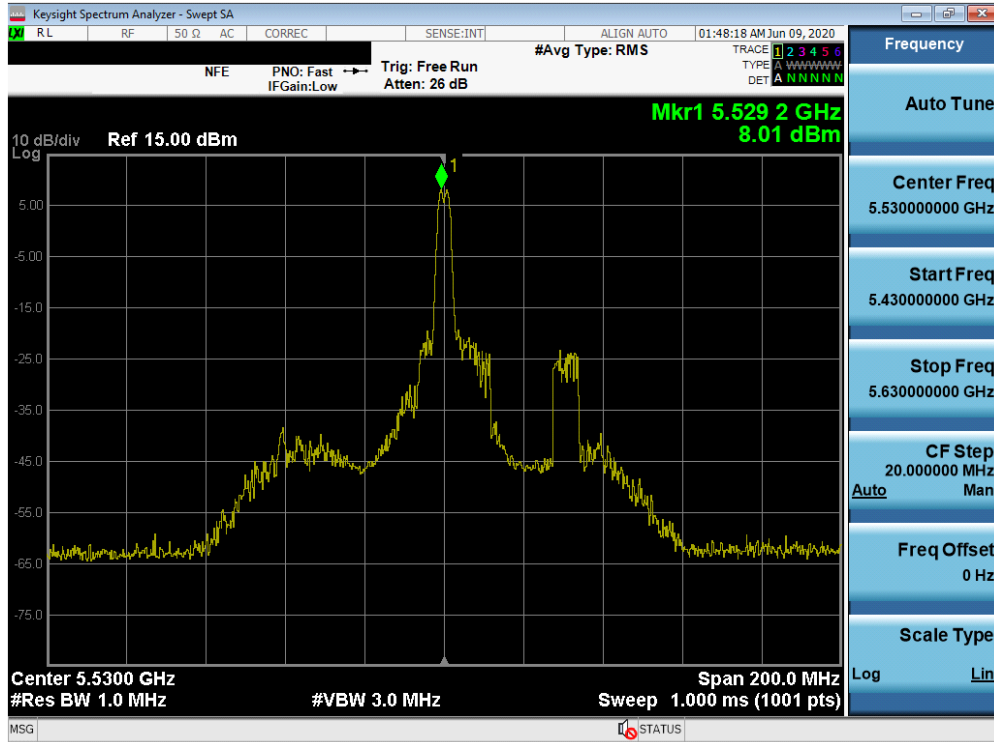


Plot 7-179. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 118)

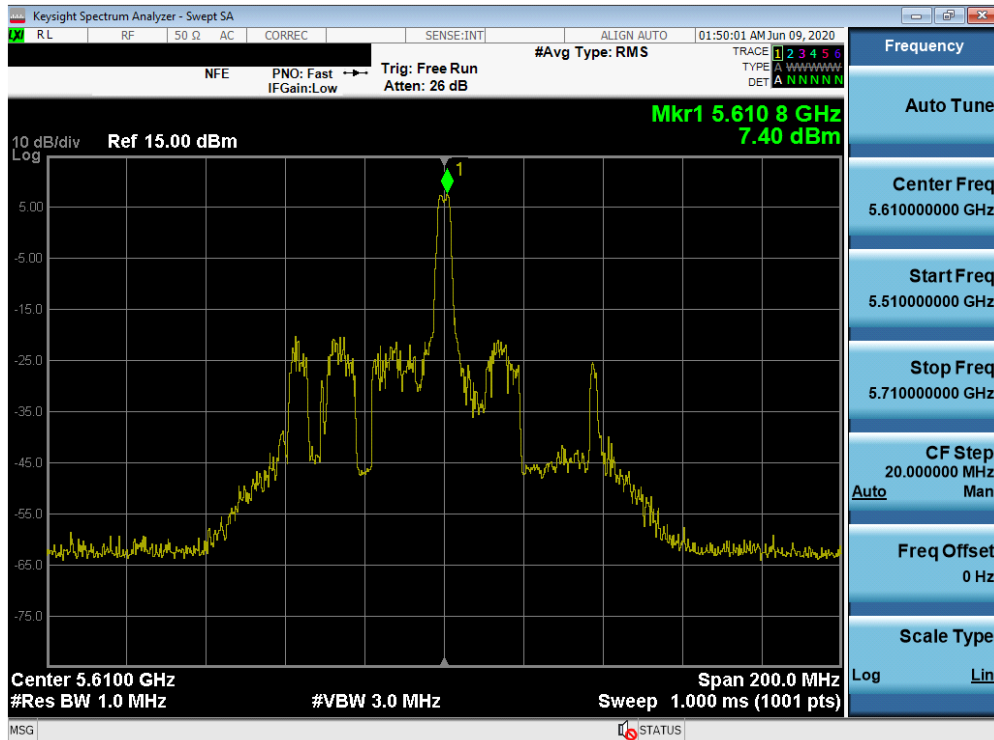


Plot 7-180. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 142)

| | | | | |
|---|--|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSMF707U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M2005040080-08.A3L | Test Dates: 05/04 - 07/06/2020 | EUT Type: Portable Handset | | Page 142 of 271 |

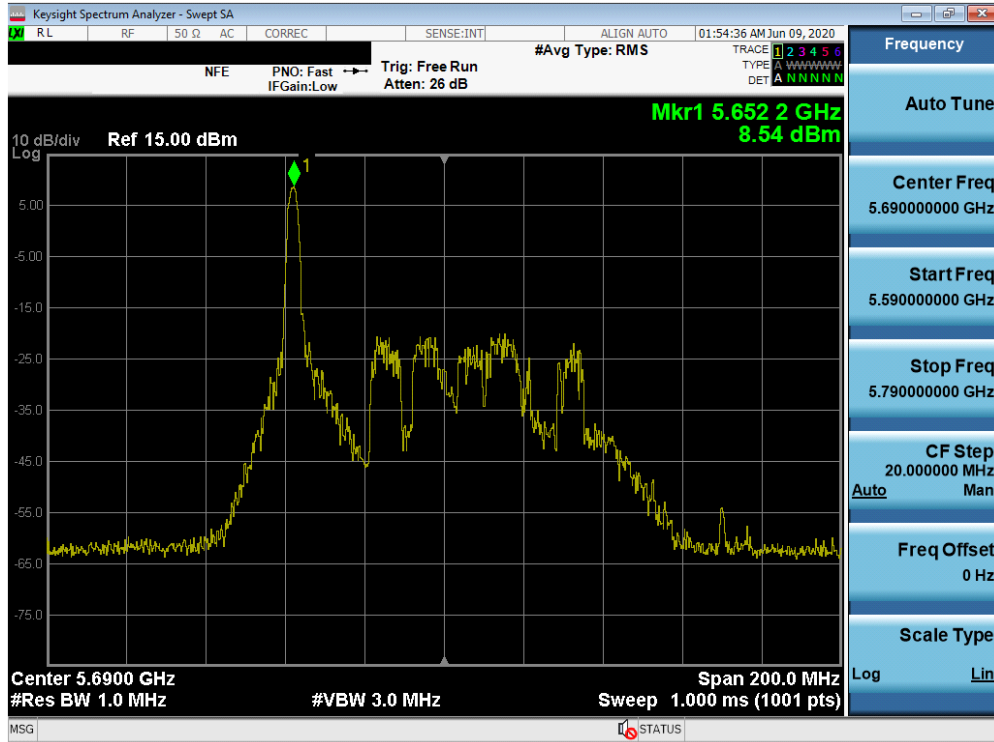


Plot 7-181. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 106)



Plot 7-182. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 122)

| | | | | |
|---|--|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSMF707U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M2005040080-08.A3L | Test Dates: 05/04 - 07/06/2020 | EUT Type: Portable Handset | | Page 143 of 271 |



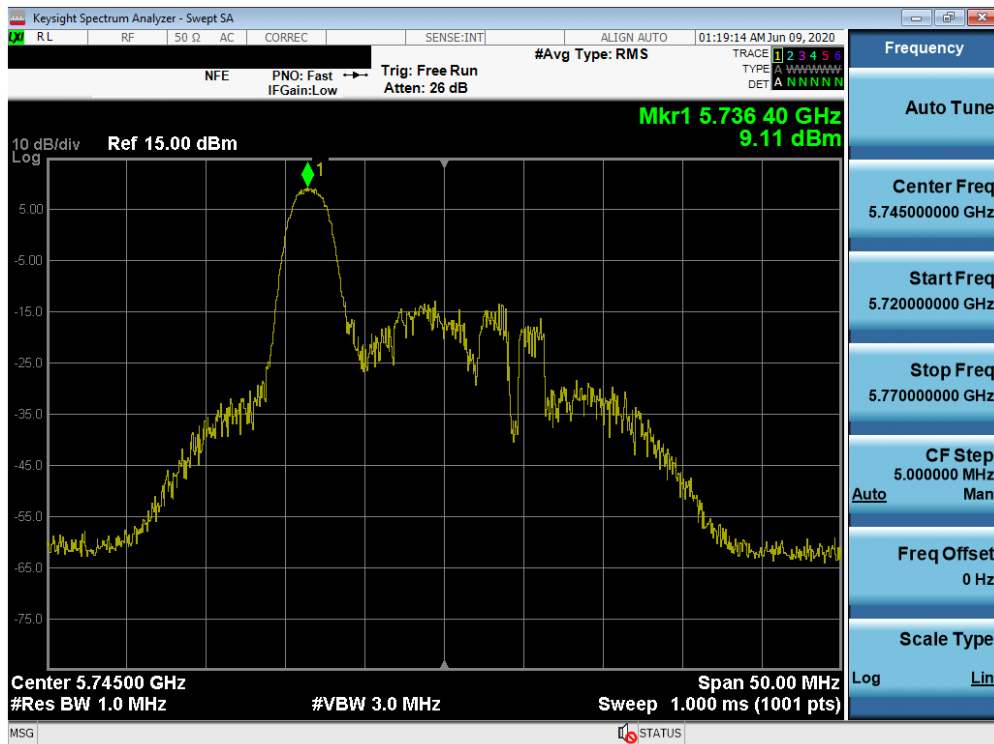
Plot 7-183. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 138)

| | | | | |
|---|---------------------------------------|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSMF707U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M2005040080-08.A3L | Test Dates: 05/04 - 07/06/2020 | EUT Type: Portable Handset | | Page 144 of 271 |

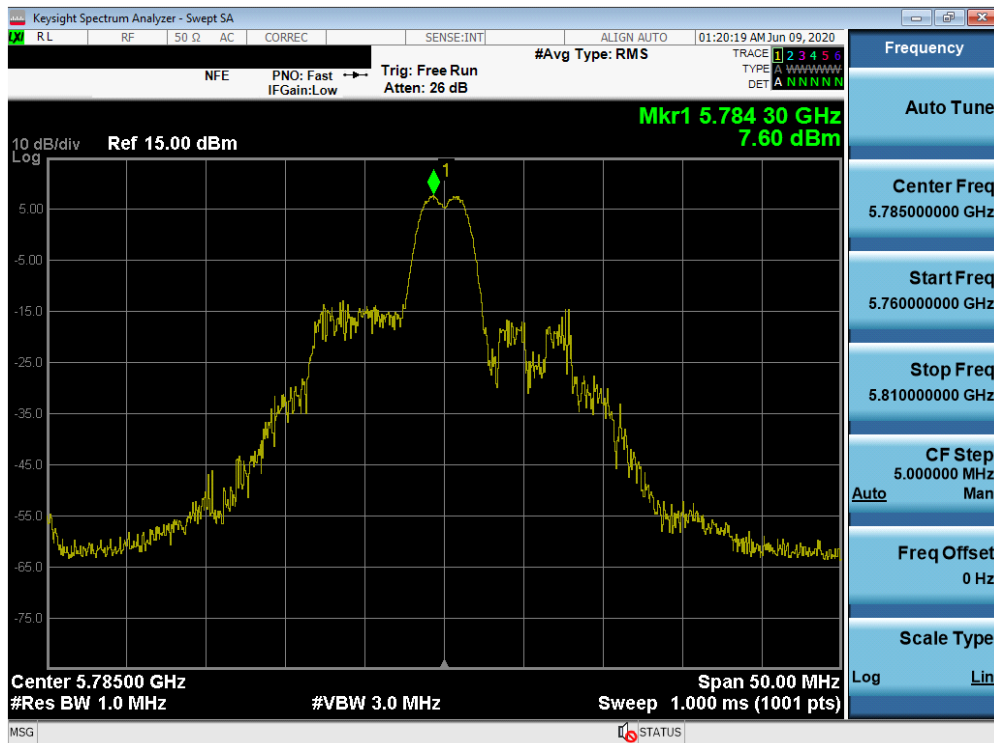
| | Frequency [MHz] | Channel No. | 802.11 Mode | Tones | Data Rate [Mbps] | Measured Power Density [dBm] | Max Permissible Power Density | Margin [dB] |
|---------------|-----------------|-------------|-------------|-------|------------------|------------------------------|-------------------------------|-------------|
| Band 3 | 5745 | 149 | ax (20MHz) | 26T | MCS0 | 9.11 | 30.00 | -20.89 |
| | 5785 | 157 | ax (20MHz) | 26T | MCS0 | 7.60 | 30.00 | -22.40 |
| | 5825 | 165 | ax (20MHz) | 26T | MCS0 | 9.07 | 30.00 | -20.93 |
| | 5755 | 151 | ax (40MHz) | 26T | MCS0 | 8.62 | 30.00 | -21.39 |
| | 5795 | 159 | ax (40MHz) | 26T | MCS0 | 8.19 | 30.00 | -21.81 |
| | 5775 | 155 | ax (80MHz) | 26T | MCS0 | 8.12 | 30.00 | -21.88 |

Table 7-63. Band 3 Conducted Power Spectral Density Measurements SISO ANT2 (26 Tones)

| | | | | |
|--|---|---|---|--|
| FCC ID: A3LSMF707U |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M2005040080-08.A3L | Test Dates: 05/04 - 07/06/2020 | EUT Type: Portable Handset | | Page 145 of 271 |

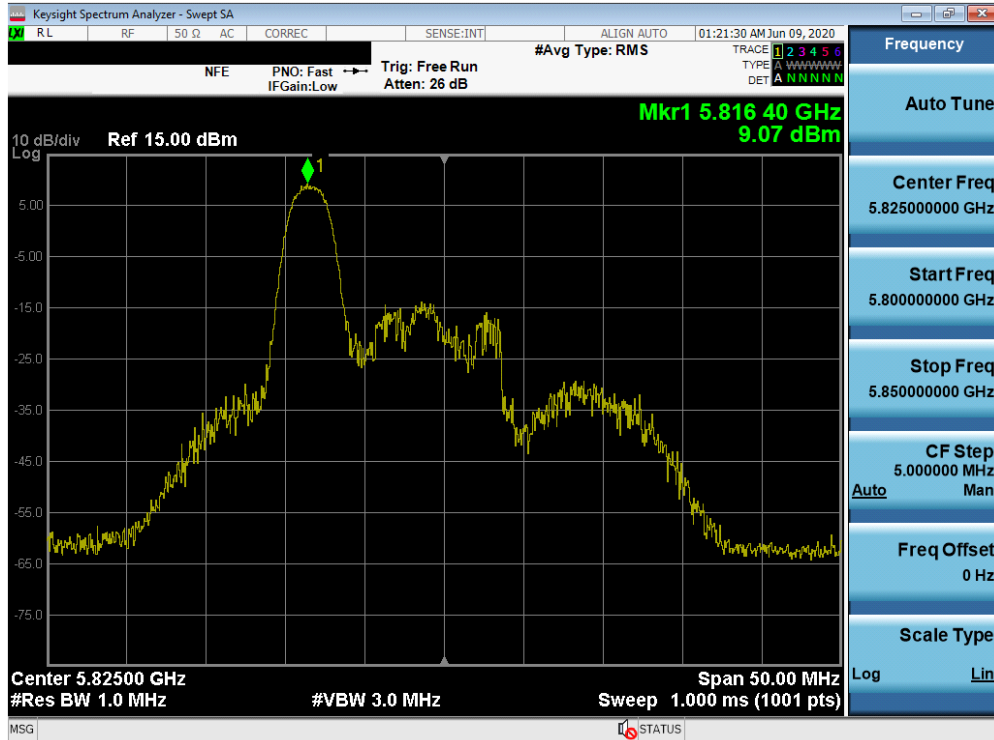


Plot 7-184. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 149)

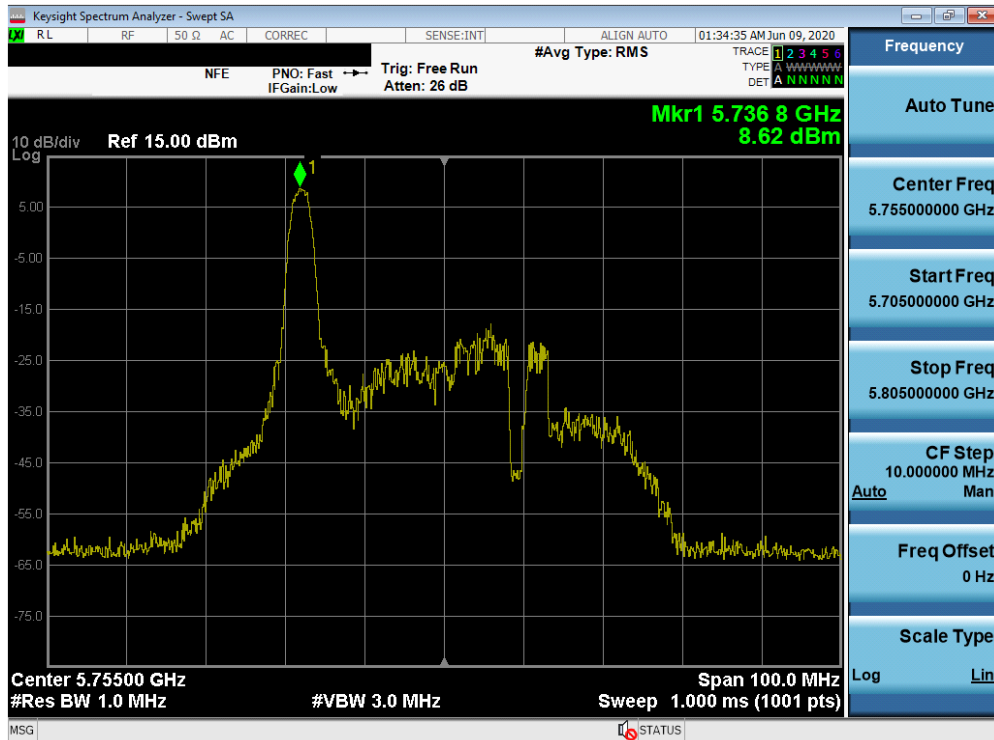


Plot 7-185. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 157)

| | | | | |
|---|---|---------------------------------------|---|---------------------------------|
| FCC ID: A3LSMF707U |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M2005040080-08.A3L | Test Dates: 05/04 - 07/06/2020 | EUT Type: Portable Handset | | Page 146 of 271 |

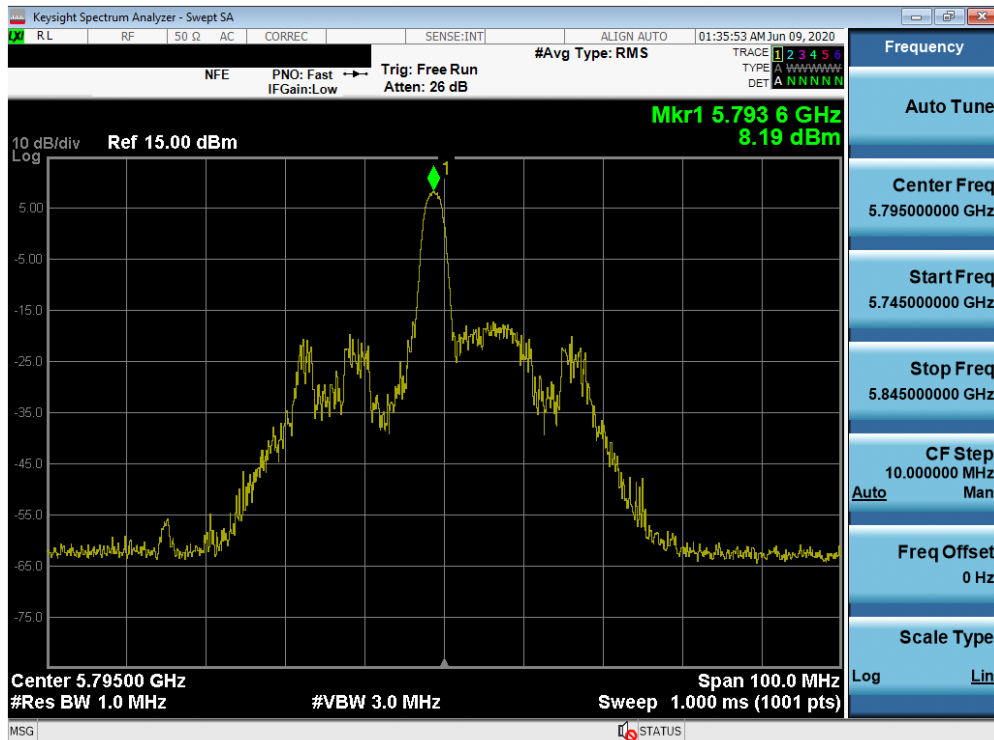


Plot 7-186. Power Spectral Density Plot SISO ANT2 (20 MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 165)

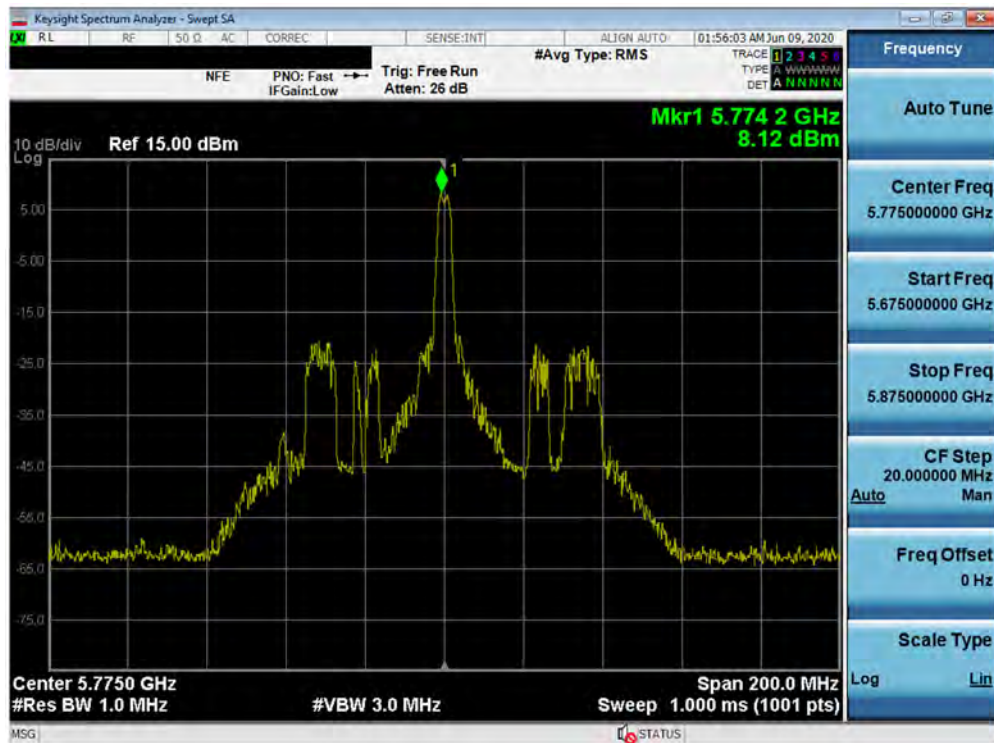


Plot 7-187. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 151)

| | | | | |
|---|---|---------------------------------------|---|---------------------------------|
| FCC ID: A3LSMF707U |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M2005040080-08.A3L | Test Dates: 05/04 - 07/06/2020 | EUT Type: Portable Handset | | Page 147 of 271 |



Plot 7-188. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 159)



Plot 7-189. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 155)

| | | | | |
|---|---|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSMF707U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M2005040080-08.A3L | Test Dates: 05/04 - 07/06/2020 | EUT Type: Portable Handset | | Page 148 of 271 |

SISO Antenna-2 Power Spectral Density Measurements (Full Tones)

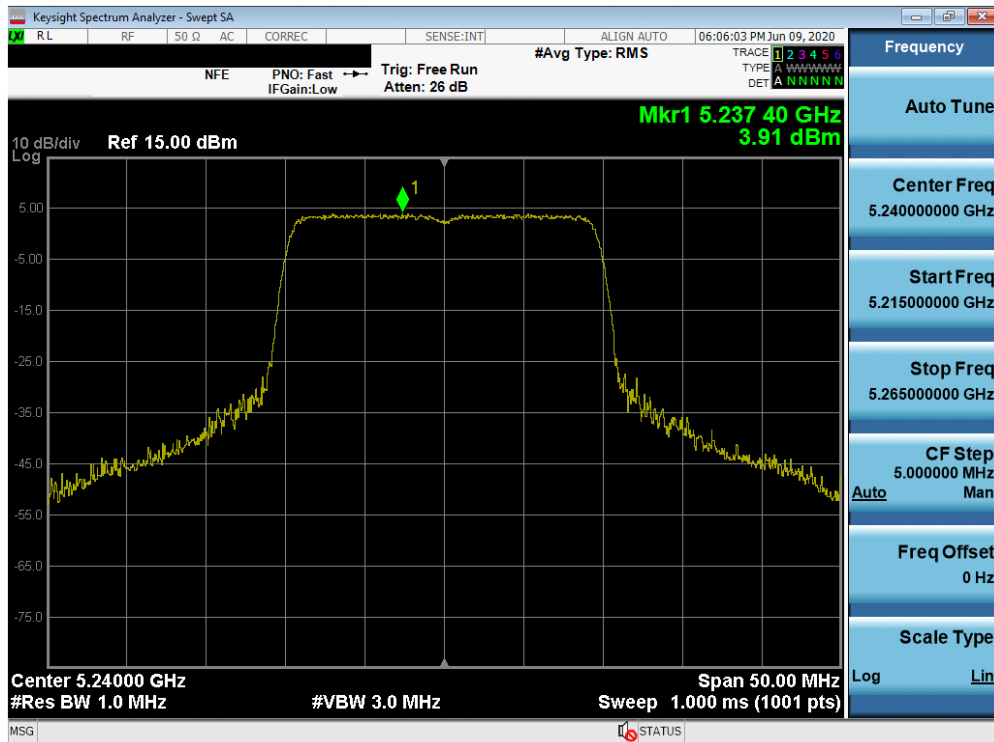
| | Frequency [MHz] | Channel No. | 802.11 Mode | Tones | Data Rate [Mbps] | Measured Power Density [dBm] | Max Power Density [dBm/MHz] | Margin [dB] |
|---------|-----------------|-------------|-------------|-------|------------------|------------------------------|-----------------------------|-------------|
| Band 1 | 5180 | 36 | ax (20MHz) | 242T | MCS0 | 3.65 | 11.0 | -7.35 |
| | 5200 | 40 | ax (20MHz) | 242T | MCS0 | 3.90 | 11.0 | -7.10 |
| | 5240 | 48 | ax (20MHz) | 242T | MCS0 | 3.91 | 11.0 | -7.09 |
| | 5190 | 38 | ax (40MHz) | 484T | MCS0 | 0.32 | 11.0 | -10.68 |
| | 5230 | 46 | ax (40MHz) | 484T | MCS0 | 2.22 | 11.0 | -8.78 |
| | 5210 | 42 | ax (80MHz) | 996T | MCS0 | -3.52 | 11.0 | -14.52 |
| Band 2A | 5260 | 52 | ax (20MHz) | 242T | MCS0 | 4.21 | 11.0 | -6.79 |
| | 5280 | 56 | ax (20MHz) | 242T | MCS0 | 3.86 | 11.0 | -7.14 |
| | 5320 | 64 | ax (20MHz) | 242T | MCS0 | 3.67 | 11.0 | -7.33 |
| | 5270 | 54 | ax (40MHz) | 484T | MCS0 | 1.66 | 11.0 | -9.34 |
| | 5310 | 62 | ax (40MHz) | 484T | MCS0 | -0.70 | 11.0 | -11.70 |
| | 5290 | 58 | ax (80MHz) | 996T | MCS0 | -2.28 | 11.0 | -13.28 |
| Band 2C | 5500 | 100 | ax (20MHz) | 242T | MCS0 | 3.70 | 11.0 | -7.30 |
| | 5600 | 120 | ax (20MHz) | 242T | MCS0 | 3.55 | 11.0 | -7.45 |
| | 5720 | 144 | ax (20MHz) | 242T | MCS0 | 3.84 | 11.0 | -7.16 |
| | 5510 | 102 | ax (40MHz) | 484T | MCS0 | -0.11 | 11.0 | -11.11 |
| | 5590 | 118 | ax (40MHz) | 484T | MCS0 | 1.18 | 11.0 | -9.82 |
| | 5710 | 142 | ax (40MHz) | 484T | MCS0 | 1.97 | 11.0 | -9.03 |
| | 5530 | 106 | ax (80MHz) | 996T | MCS0 | -3.98 | 11.0 | -14.98 |
| | 5610 | 122 | ax (80MHz) | 996T | MCS0 | -3.06 | 11.0 | -14.06 |
| | 5690 | 138 | ax (80MHz) | 996T | MCS0 | -2.45 | 11.0 | -13.45 |

Table 7-64. Conducted Power Spectral Density Measurements SISO ANT2 (Full Tones)

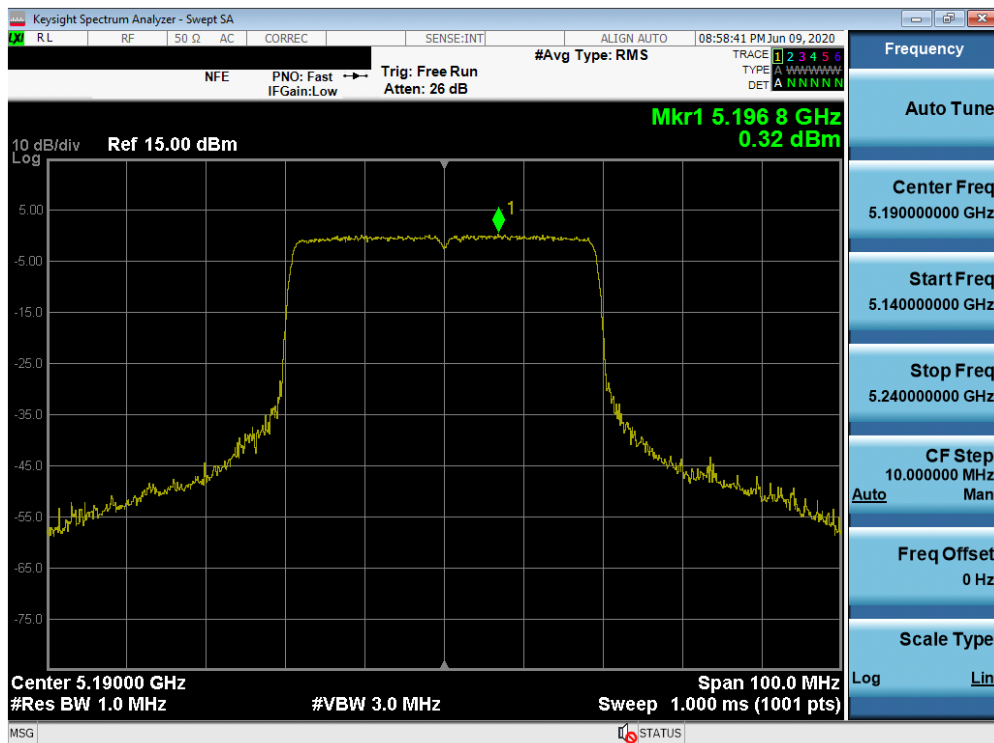
| | Frequency [MHz] | Channel No. | 802.11 Mode | Tones | Data Rate [Mbps] | Measured Power Density [dBm] | Antenna Gain [dBi] | e.i.r.p. Power Density [dBm/MHz] | ISED Max e.i.r.p. Power Density [dBm/MHz] | Margin [dB] |
|--------|-----------------|-------------|-------------|-------|------------------|------------------------------|--------------------|----------------------------------|---|-------------|
| Band 1 | 5180 | 36 | ax (20MHz) | 242T | MCS0 | 3.65 | -13.40 | -9.75 | 10.0 | -19.75 |
| | 5200 | 40 | ax (20MHz) | 242T | MCS0 | 3.90 | -13.40 | -9.50 | 10.0 | -19.50 |
| | 5240 | 48 | ax (20MHz) | 242T | MCS0 | 3.91 | -11.70 | -7.79 | 10.0 | -17.79 |
| | 5190 | 38 | ax (40MHz) | 484T | MCS0 | 0.32 | -13.40 | -13.08 | 10.0 | -23.08 |
| | 5230 | 46 | ax (40MHz) | 484T | MCS0 | 2.22 | -11.70 | -9.48 | 10.0 | -19.48 |
| | 5210 | 42 | ax (80MHz) | 996T | MCS0 | -3.52 | -11.70 | -15.22 | 10.0 | -25.22 |

Table 7-65. Band 1 e.i.r.p. Conducted Power Spectral Density Measurements (ISED Full Tones)

| | | | | |
|---|---|---------------------------------------|---|---------------------------------|
| FCC ID: A3LSMF707U |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M2005040080-08.A3L | Test Dates: 05/04 - 07/06/2020 | EUT Type: Portable Handset | | Page 149 of 271 |

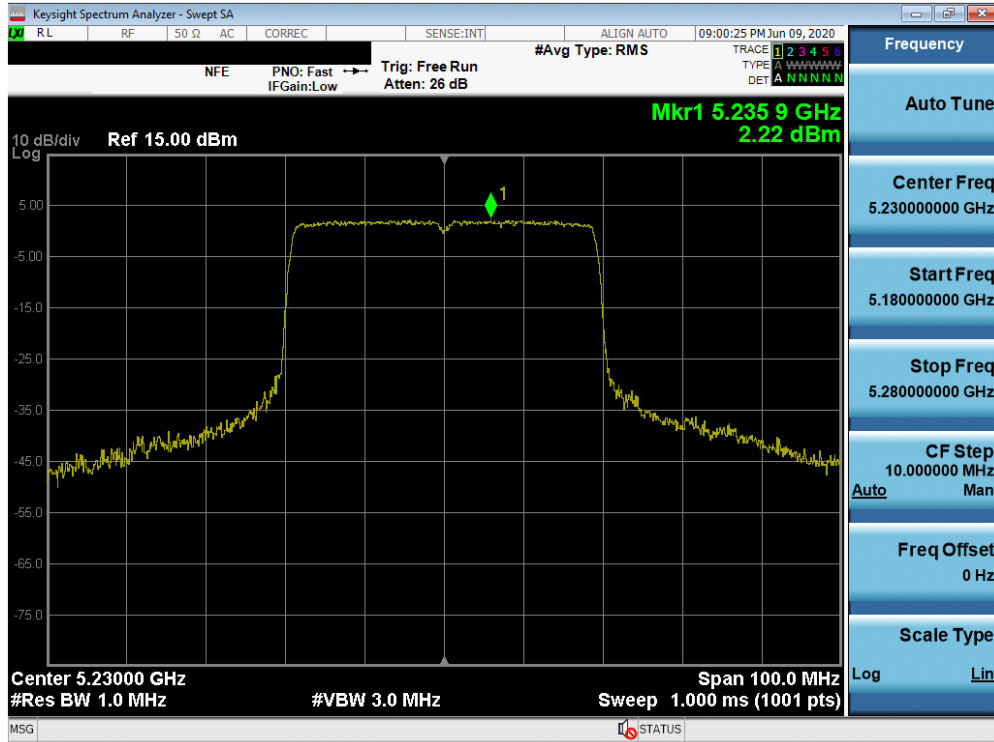


Plot 7-192. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 48)

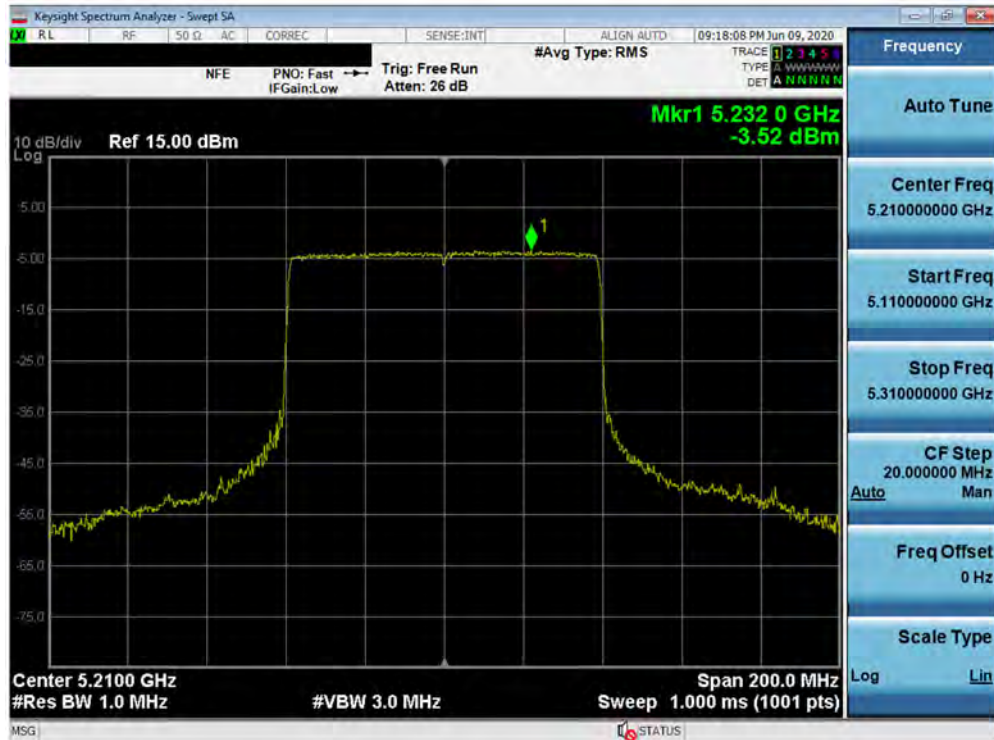


Plot 7-193. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 38)

| | | | | |
|---|---|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSMF707U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M2005040080-08.A3L | Test Dates: 05/04 - 07/06/2020 | EUT Type: Portable Handset | | Page 151 of 271 |

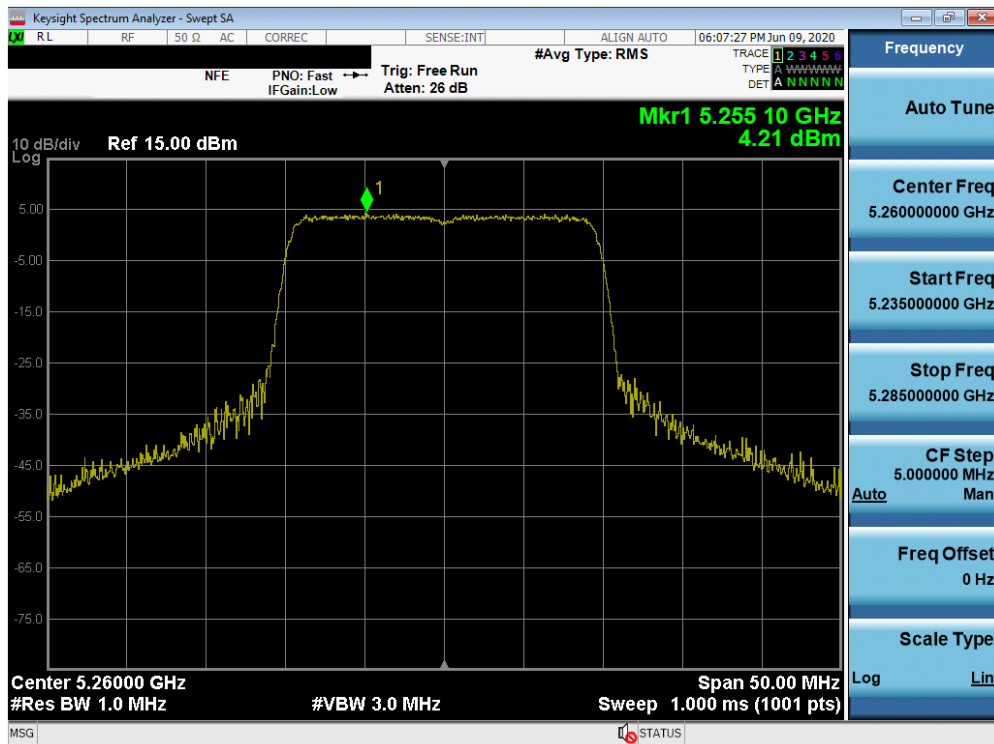


Plot 7-194. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 46)

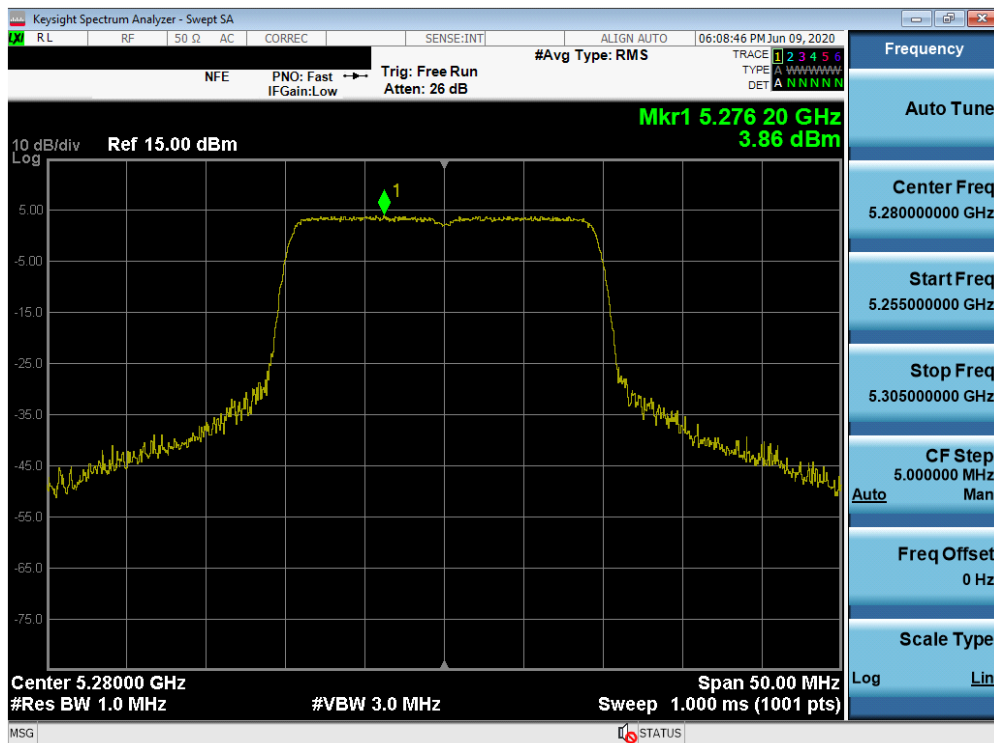


Plot 7-195. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 42)

| | | | | |
|---|--|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMF707U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
| Test Report S/N: 1M2005040080-08.A3L | Test Dates: 05/04 - 07/06/2020 | EUT Type: Portable Handset | | Page 152 of 271 |

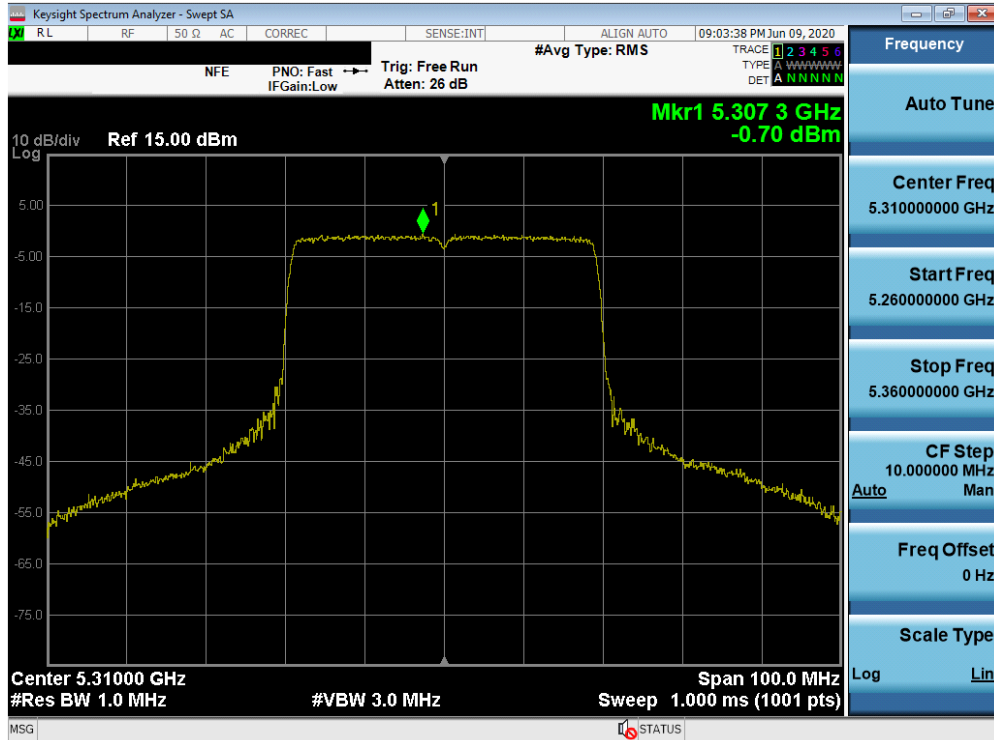


Plot 7-196. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 52)

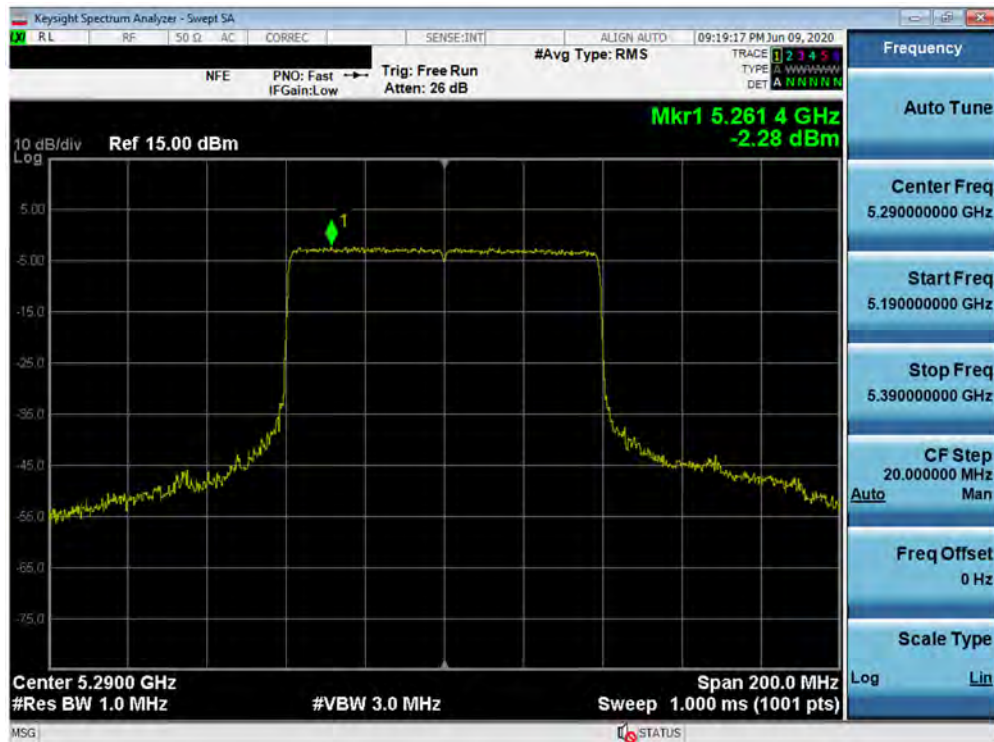


Plot 7-197. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 56)

| | | | | |
|---|---|---------------------------------------|---|---------------------------------|
| FCC ID: A3LSMF707U |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M2005040080-08.A3L | Test Dates: 05/04 - 07/06/2020 | EUT Type: Portable Handset | | Page 153 of 271 |

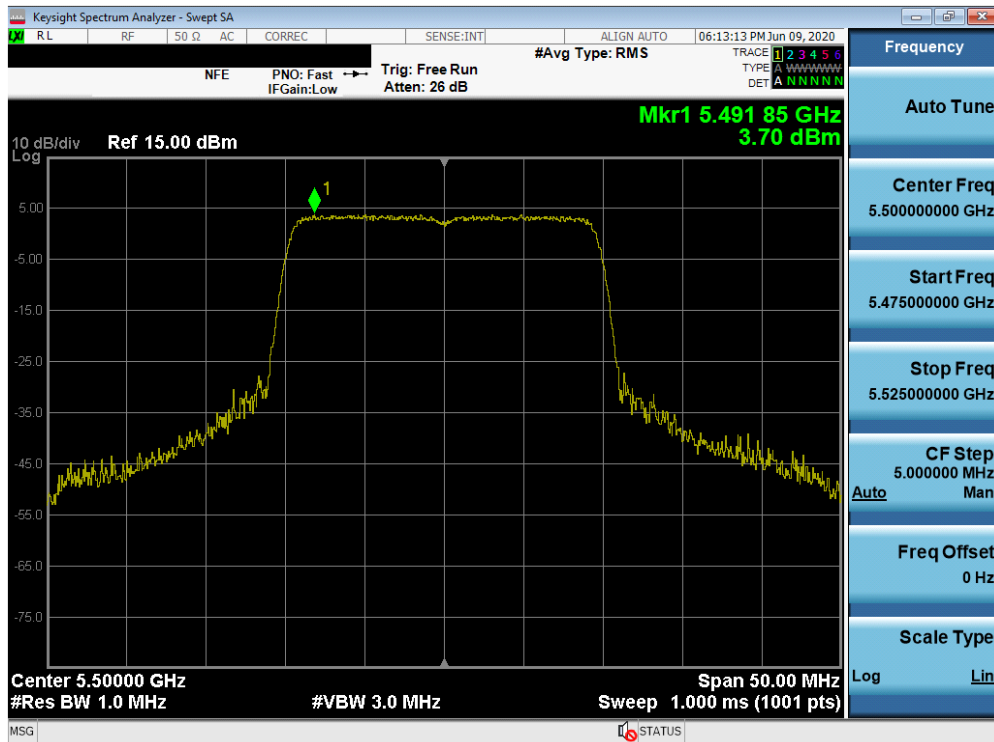


Plot 7-200. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 62)

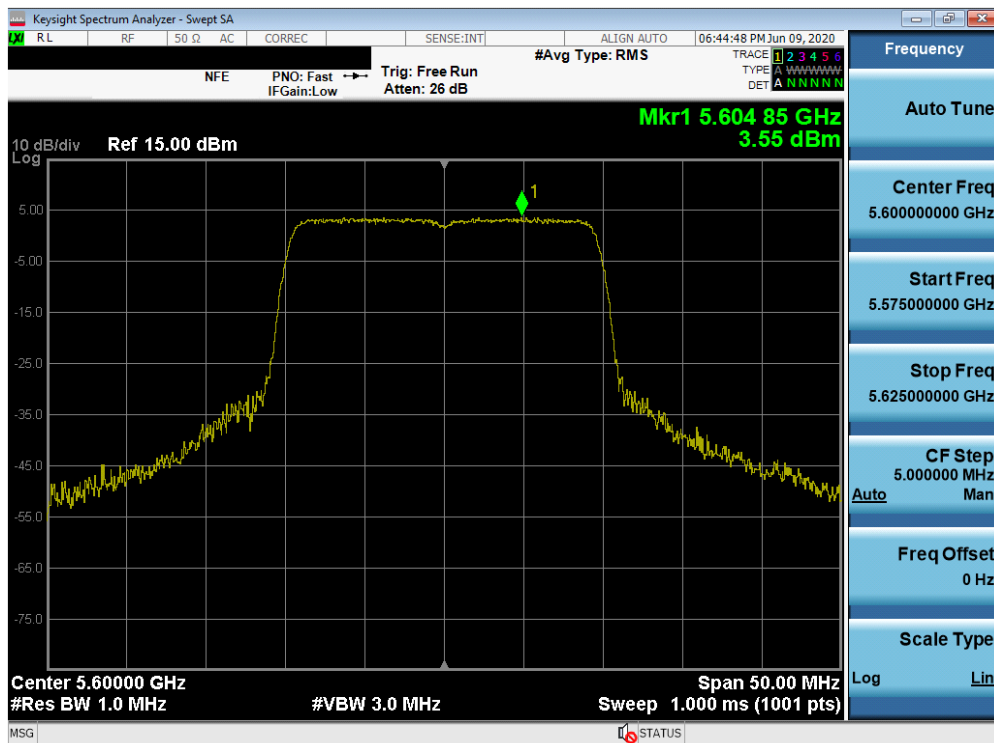


Plot 7-201. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 58)

| | | | | |
|---|---|---------------------------------------|---|---------------------------------|
| FCC ID: A3LSMF707U |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M2005040080-08.A3L | Test Dates: 05/04 - 07/06/2020 | EUT Type: Portable Handset | | Page 155 of 271 |

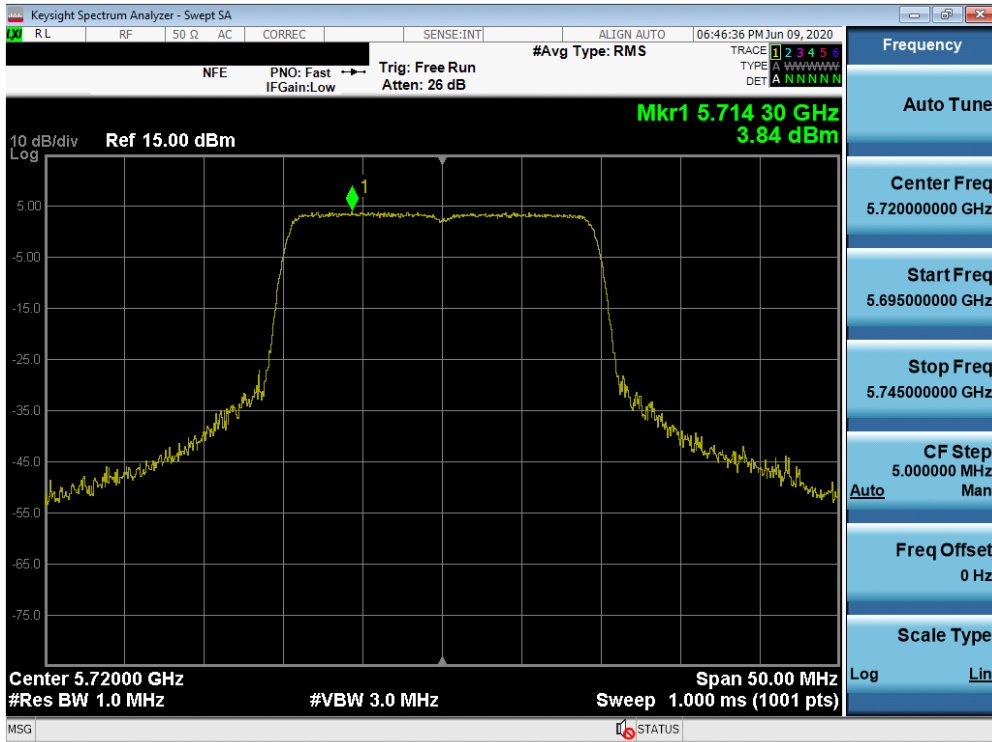


Plot 7-202. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 100)

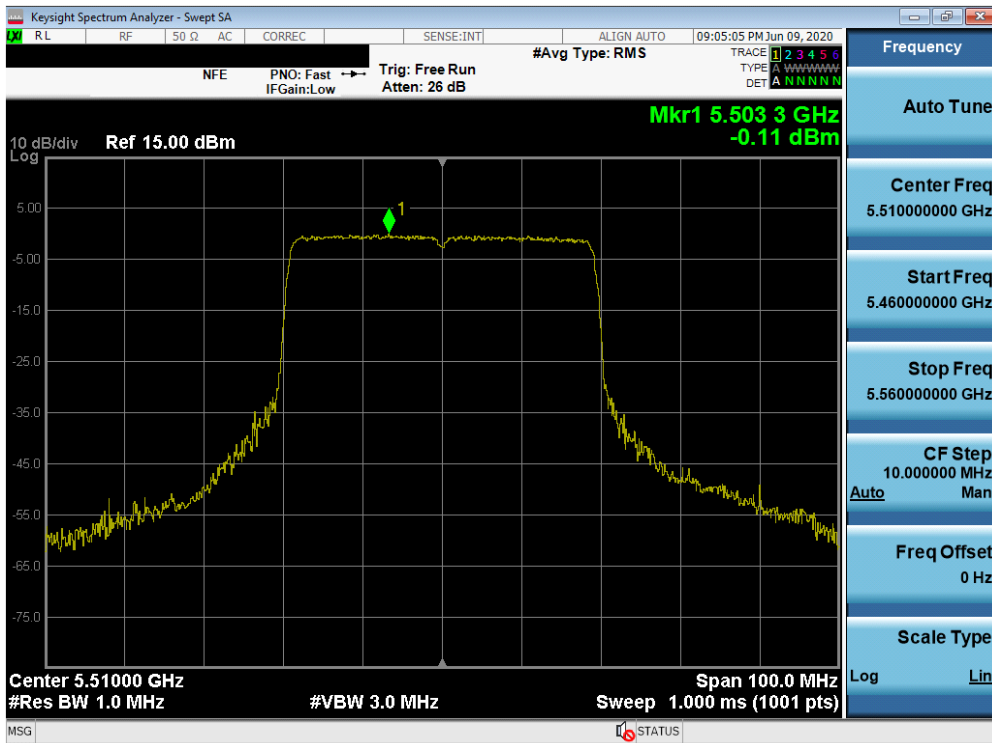


Plot 7-203. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 120)

| | | | | |
|---|---|---------------------------------------|---|---------------------------------|
| FCC ID: A3LSMF707U |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M2005040080-08.A3L | Test Dates: 05/04 - 07/06/2020 | EUT Type: Portable Handset | | Page 156 of 271 |

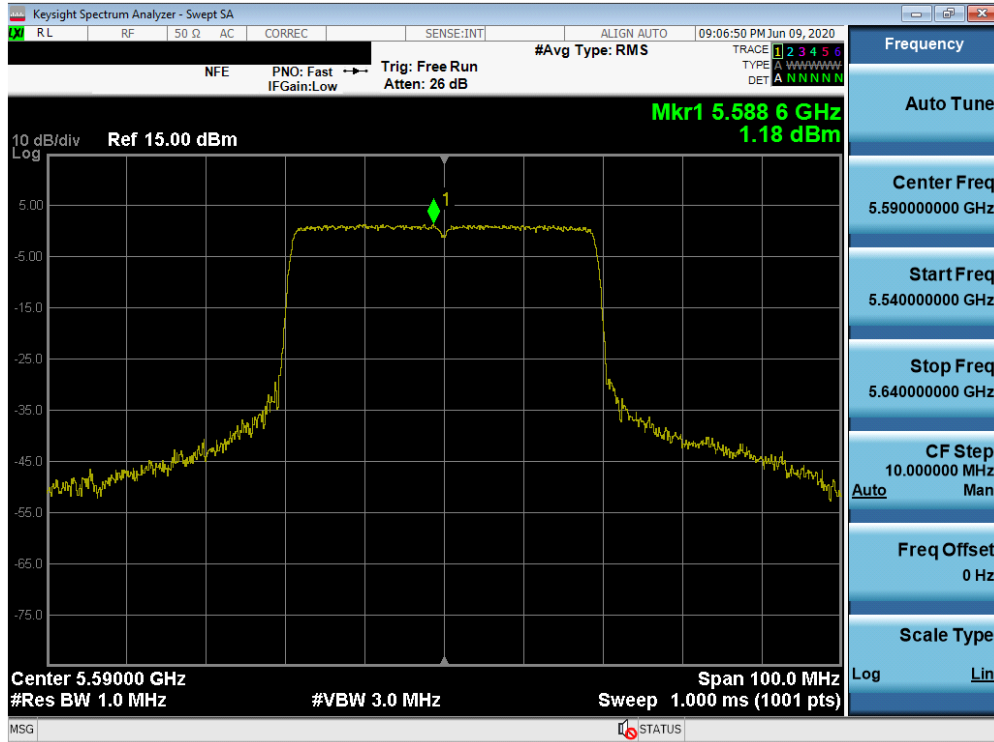


Plot 7-204. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 144)

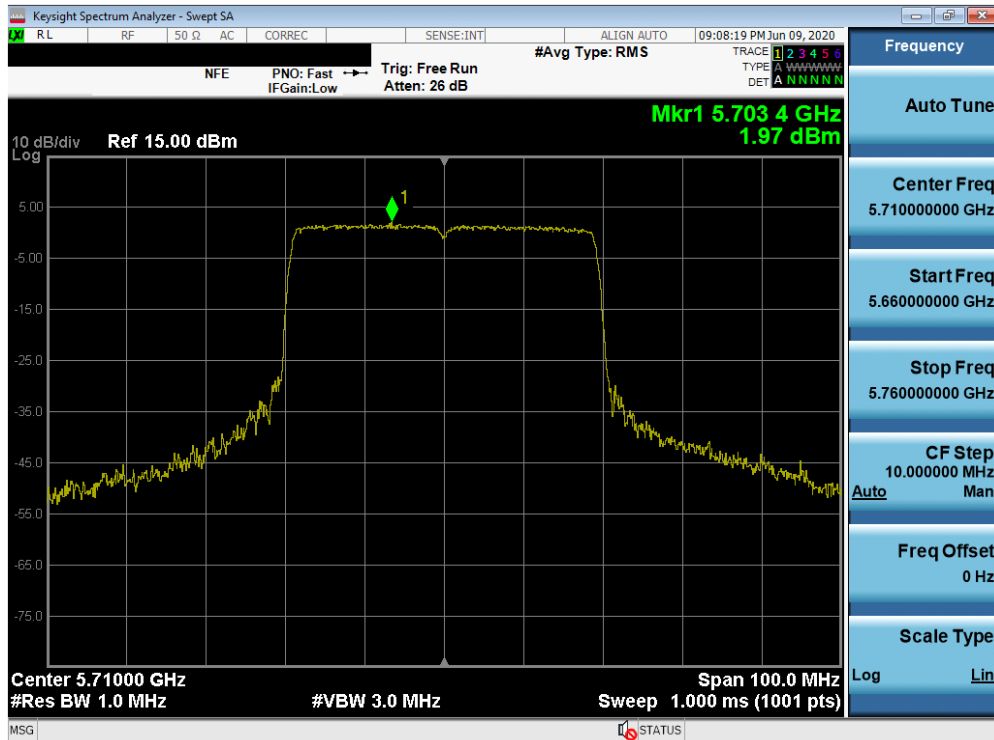


Plot 7-205. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 102)

| | | | | |
|---|--|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMF707U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
| Test Report S/N: 1M2005040080-08.A3L | Test Dates: 05/04 - 07/06/2020 | EUT Type: Portable Handset | | Page 157 of 271 |

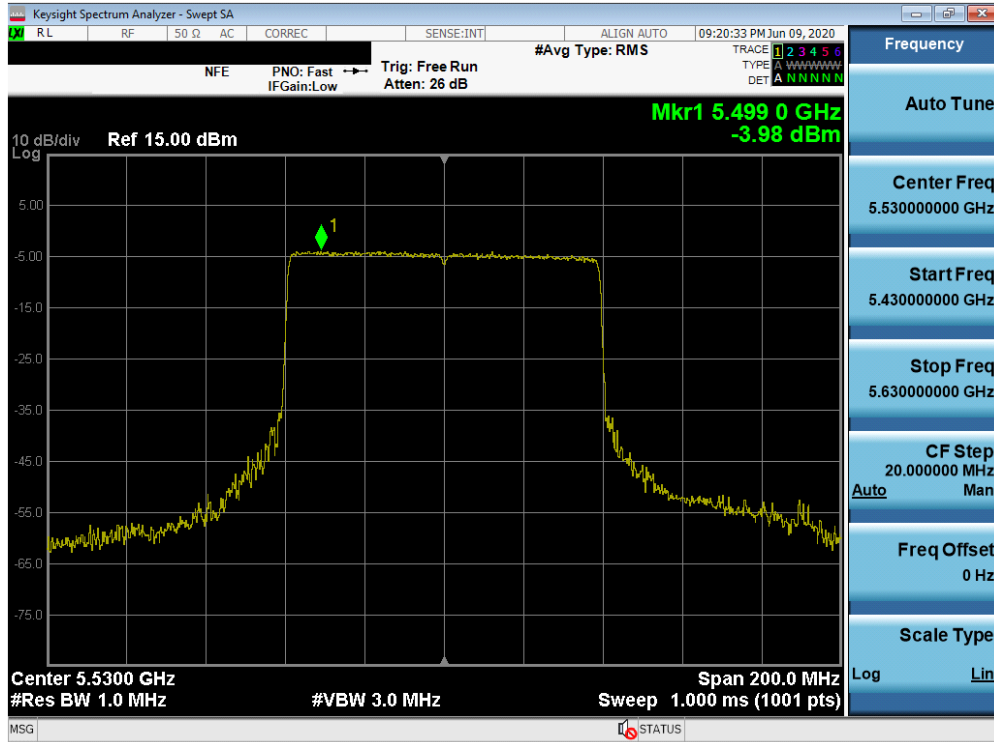


Plot 7-206. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 118)

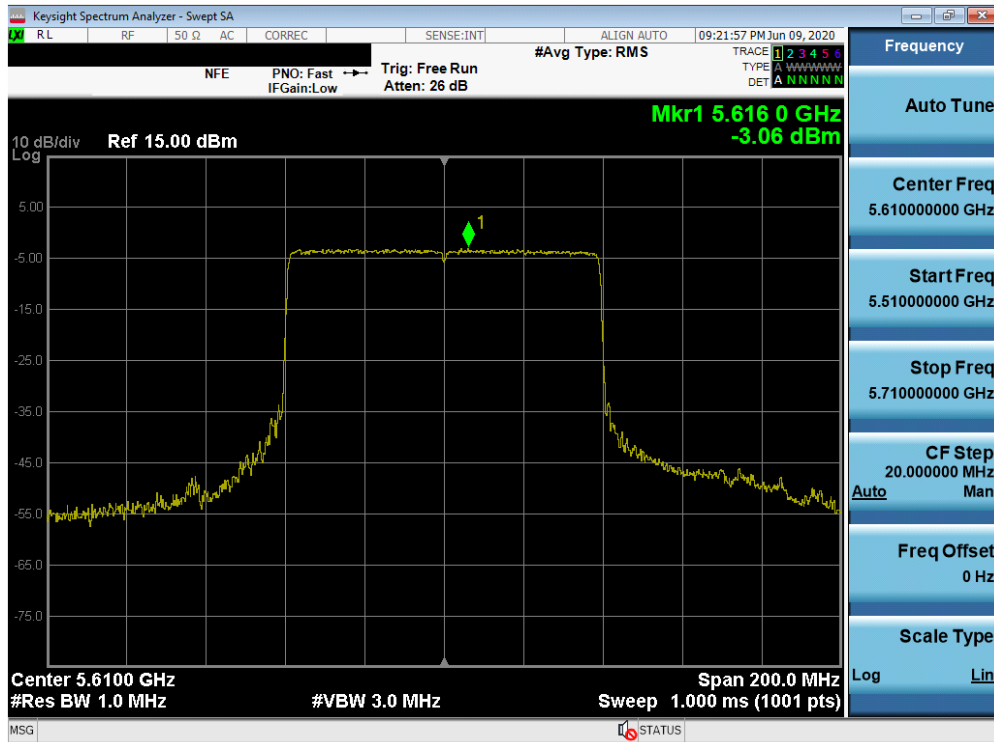


Plot 7-207. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 142)

| | | | | |
|---|---|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSMF707U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M2005040080-08.A3L | Test Dates: 05/04 - 07/06/2020 | EUT Type: Portable Handset | | Page 158 of 271 |

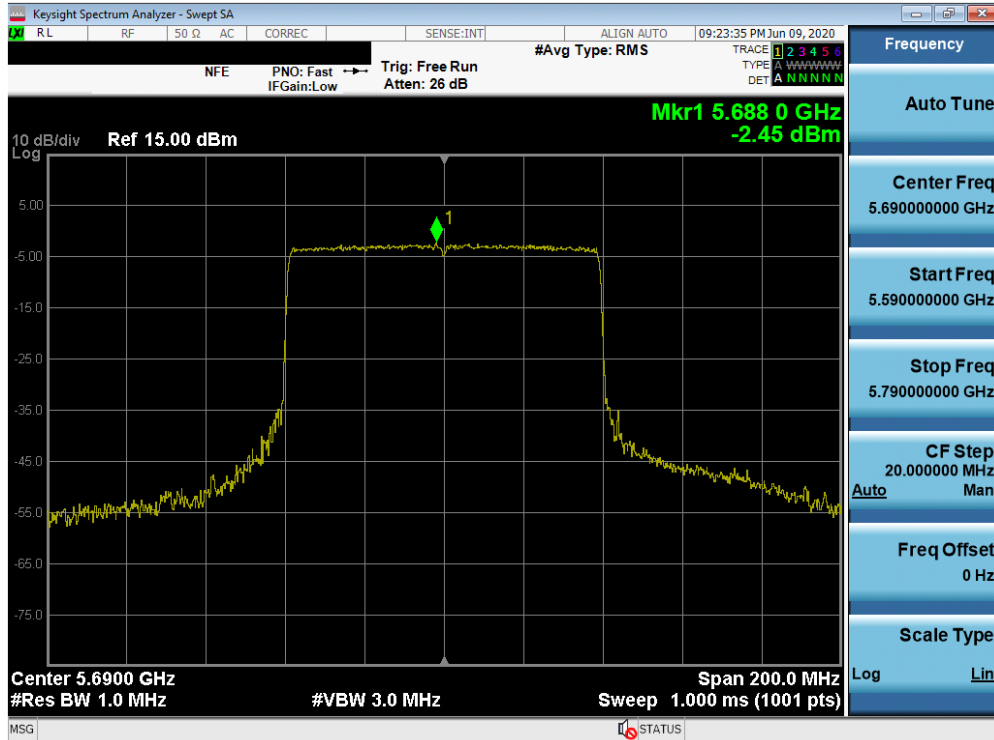


Plot 7-208. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 106)



Plot 7-209. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 122)

| | | | | |
|---|---|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSMF707U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M2005040080-08.A3L | Test Dates: 05/04 - 07/06/2020 | EUT Type: Portable Handset | | Page 159 of 271 |



Plot 7-210. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 138)

| | | | | |
|---|---|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSMF707U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M2005040080-08.A3L | Test Dates: 05/04 - 07/06/2020 | EUT Type: Portable Handset | | Page 160 of 271 |

| | Frequency [MHz] | Channel No. | 802.11 Mode | Tones | Data Rate [Mbps] | Measured Power Density [dBm] | Max Permissible Power Density | Margin [dB] |
|---------------|-----------------|-------------|-------------|-------|------------------|------------------------------|-------------------------------|-------------|
| Band 3 | 5745 | 149 | ax (20MHz) | 242T | MCS0 | 3.88 | 30.00 | -26.12 |
| | 5785 | 157 | ax (20MHz) | 242T | MCS0 | 3.39 | 30.00 | -26.61 |
| | 5825 | 165 | ax (20MHz) | 242T | MCS0 | 3.78 | 30.00 | -26.22 |
| | 5755 | 151 | ax (40MHz) | 484T | MCS0 | 1.47 | 30.00 | -28.53 |
| | 5795 | 159 | ax (40MHz) | 484T | MCS0 | 1.76 | 30.00 | -28.24 |
| | 5775 | 155 | ax (80MHz) | 996T | MCS0 | -2.48 | 30.00 | -32.48 |

Table 7-66. Band 3 Conducted Power Spectral Density Measurements SISO ANT2 (Full Tones)

| | | | | |
|--|---|---|---|--|
| FCC ID: A3LSMF707U |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M2005040080-08.A3L | Test Dates: 05/04 - 07/06/2020 | EUT Type: Portable Handset | | Page 161 of 271 |