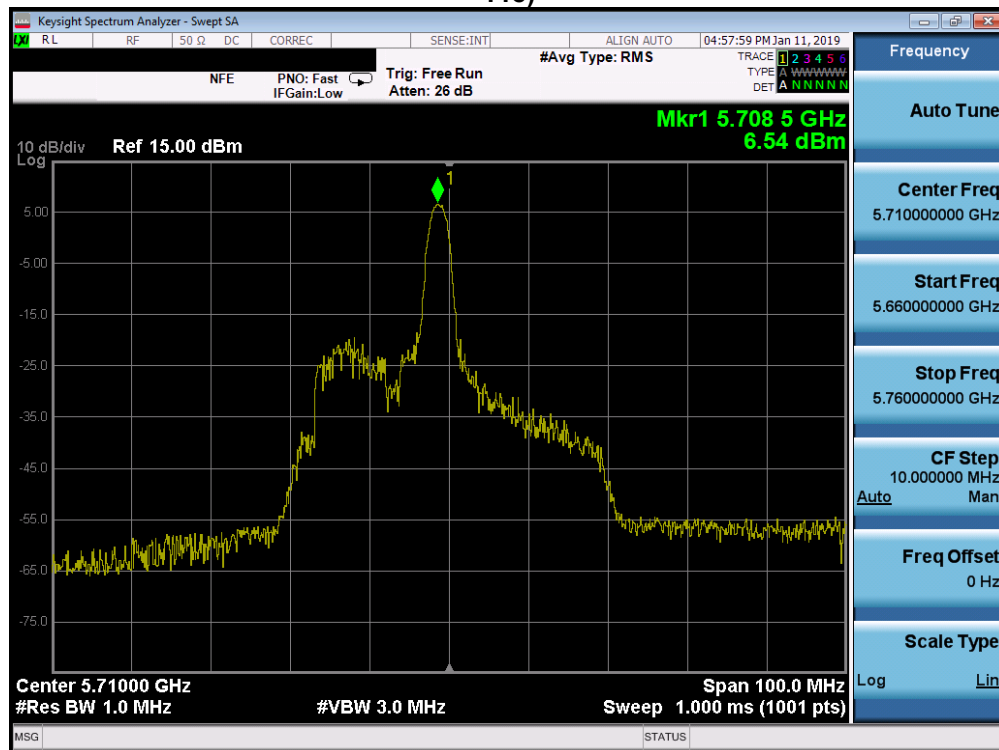
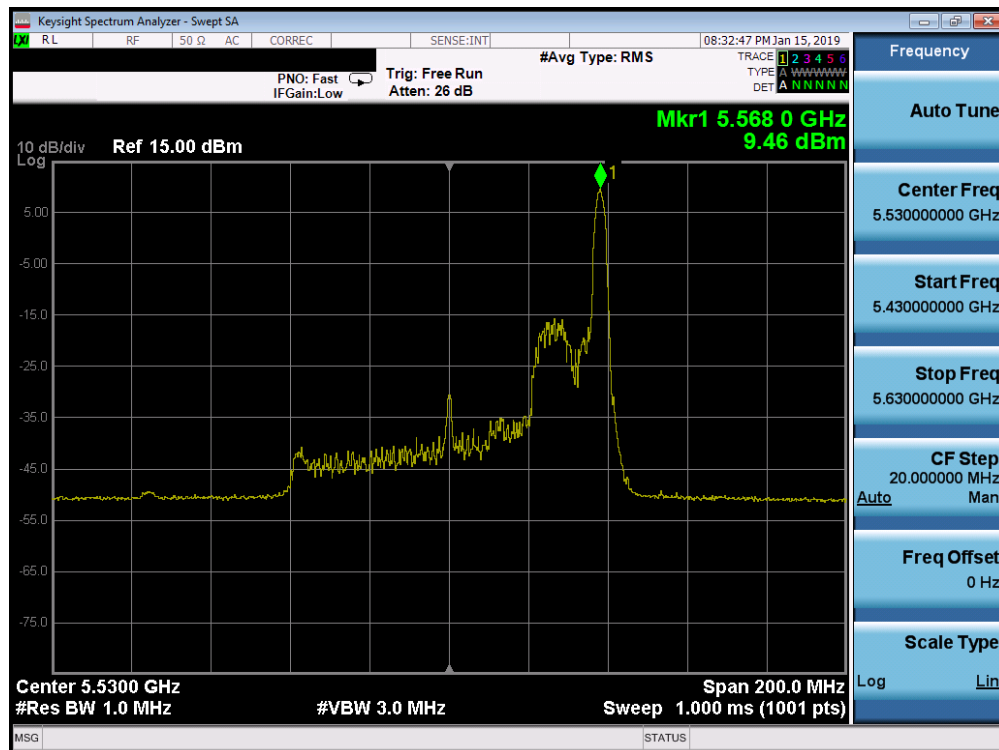


Plot 7-125. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 118)

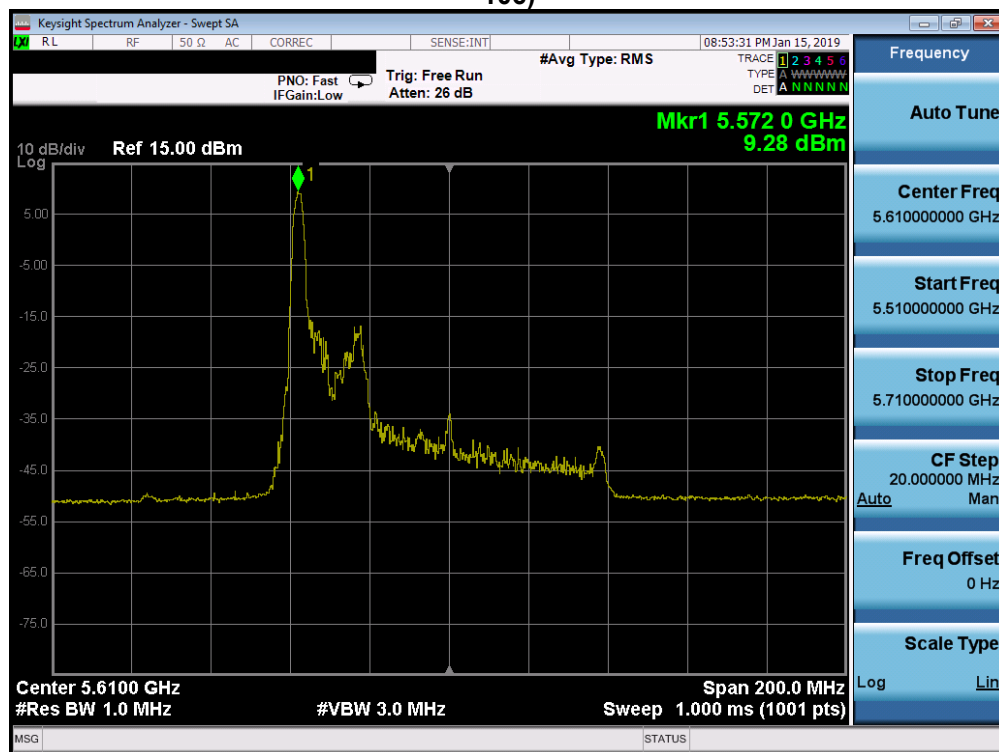


Plot 7-126. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 142)

| | | | | |
|---|---|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSC03L | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | | Page 113 of 514 |

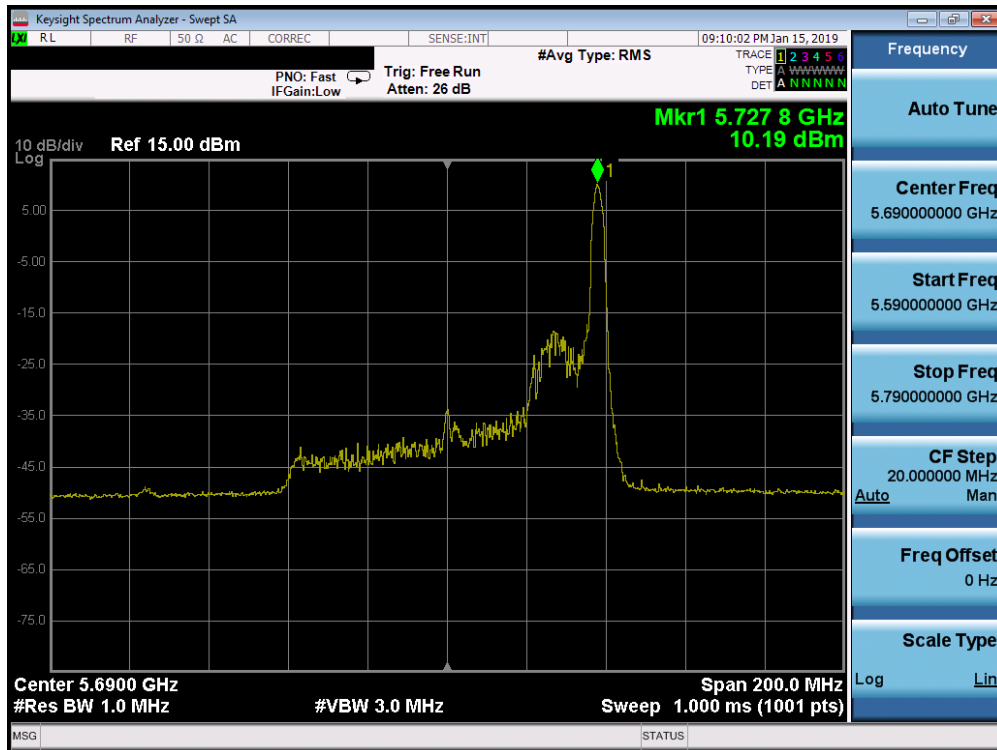


Plot 7-127. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 106)



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

| | | | | |
|---|---|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSC03L | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | | Page 114 of 514 |

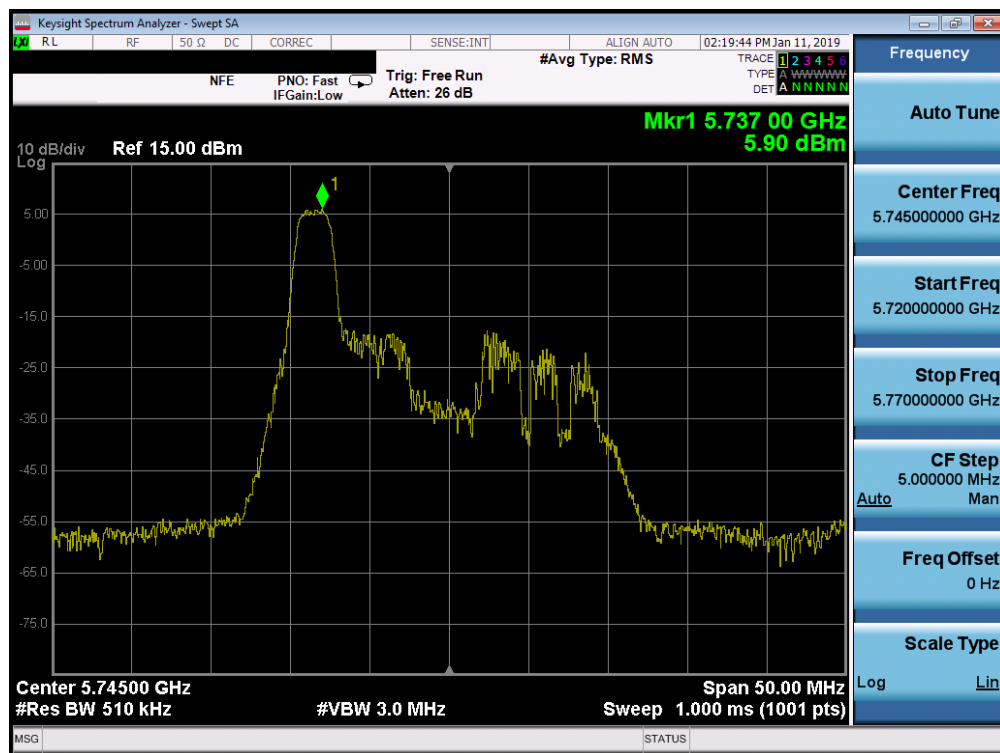


Plot 7-129. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 138)

| | | | |
|---|---|-------------------------------|---------------------------------|
| FCC ID: A3LSC03L |  MEASUREMENT REPORT (CERTIFICATION)  | | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | Page 115 of 514 |

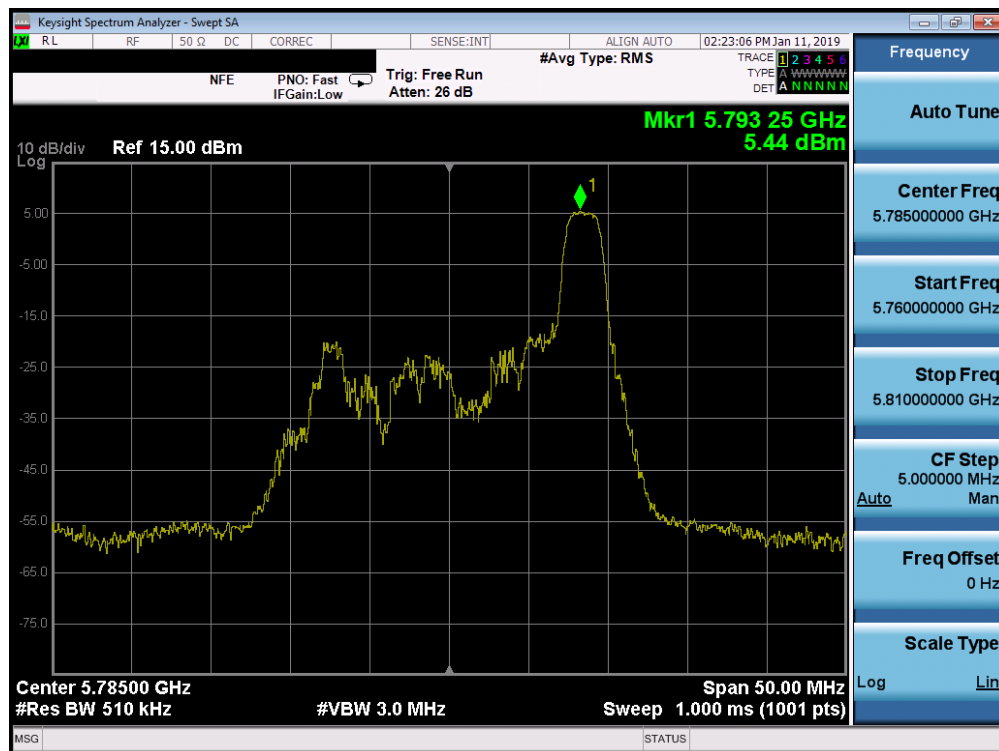
| | Frequency [MHz] | Channel No. | 802.11 Mode | Tones | Data Rate [Mbps] | Measured Power Density [dBm] | Max Permissible Power Density [dBm/500kHz] | Margin [dB] |
|--------|-----------------|-------------|-------------|-------|------------------|------------------------------|--|-------------|
| Band 3 | 5745 | 149 | ax (20MHz) | 26T | MCS0 | 5.90 | 30.00 | -24.10 |
| | 5785 | 157 | ax (20MHz) | 26T | MCS0 | 5.44 | 30.00 | -24.56 |
| | 5825 | 165 | ax (20MHz) | 26T | MCS0 | 6.20 | 30.00 | -23.80 |
| | 5755 | 151 | ax (40MHz) | 26T | MCS0 | 5.96 | 30.00 | -24.04 |
| | 5795 | 159 | ax (40MHz) | 26T | MCS0 | 4.59 | 30.00 | -25.41 |
| | 5775 | 155 | ax (80MHz) | 26T | MCS0 | 10.09 | 30.00 | -19.91 |

Table 7-65. Band 3 Conducted Power Spectral Density Measurements SISO ANT1 (26 Tones)

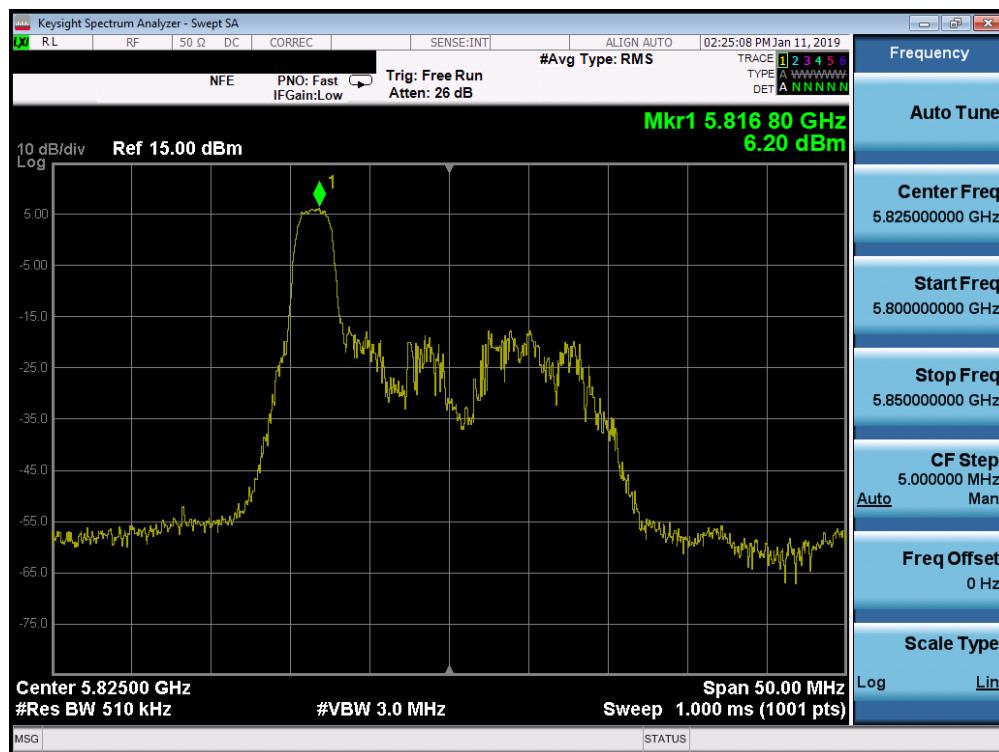


Plot 7-130. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 149)

| | | | |
|--|---|--------------------------------------|--|
| FCC ID: A3LSC03L |  MEASUREMENT REPORT (CERTIFICATION)  | | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | Page 116 of 514 |

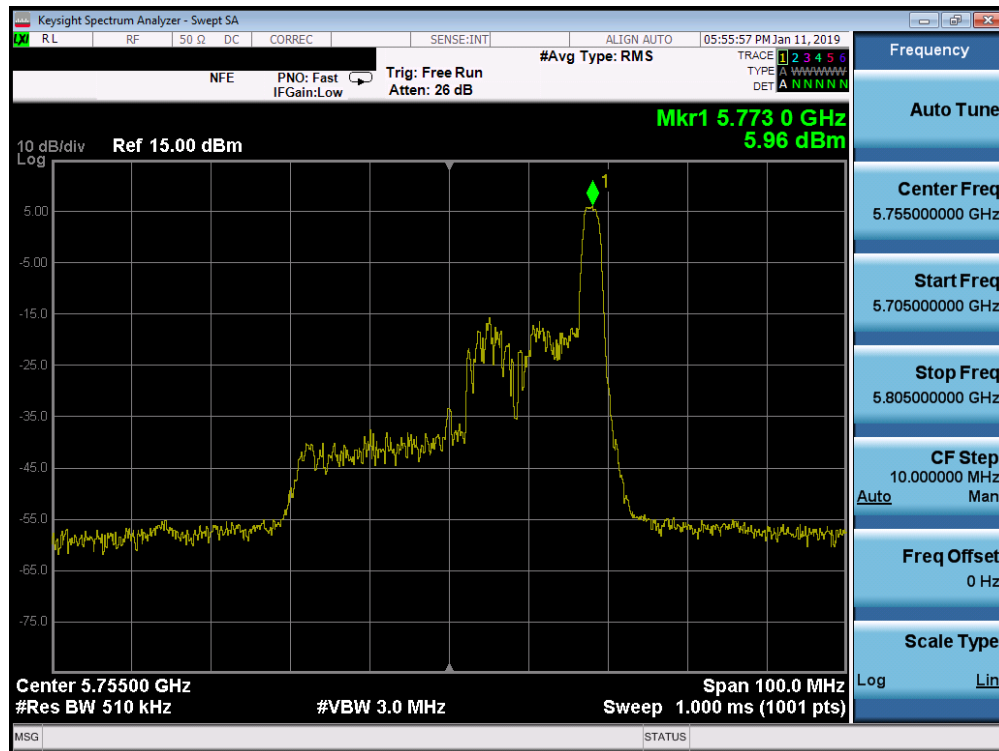


Plot 7-131. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 157)

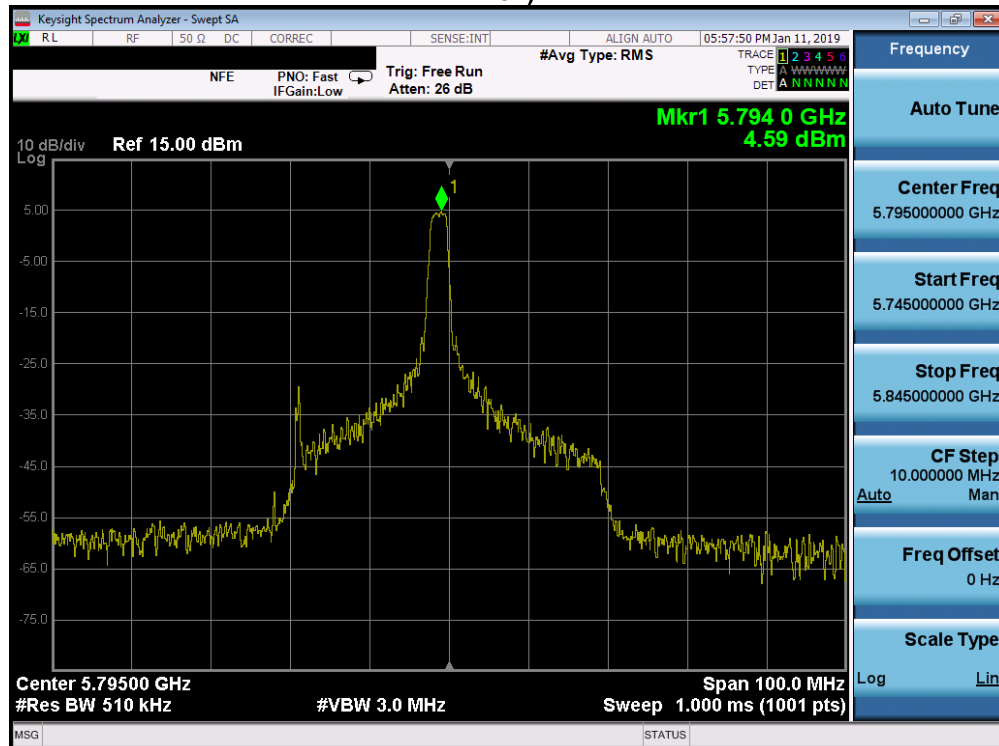


Plot 7-132. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 165)

| | | | | | |
|---|---------------------------------------|-------------------------------|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSC03L | | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | Page 117 of 514 | | |



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



Plot 7-134. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 159)

| | | | | |
|---|---|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSC03L | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | | Page 118 of 514 |

SISO Antenna-1 Power Spectral Density Measurements (52 Tones)

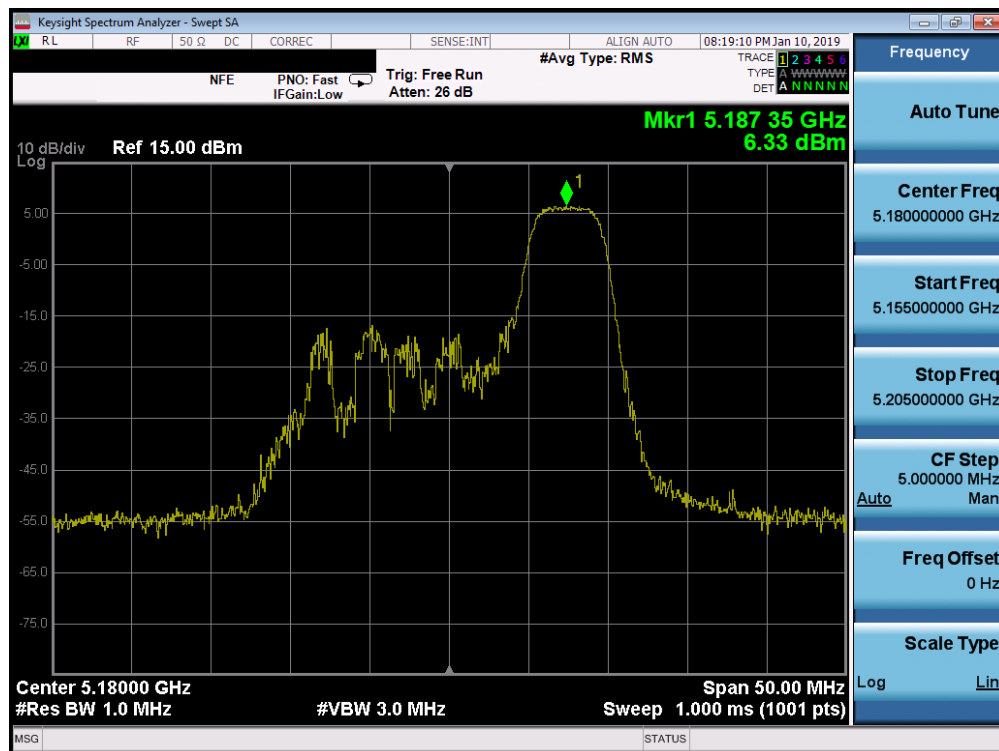
| | Frequency [MHz] | Channel No. | 802.11 Mode | Tones | Data Rate [Mbps] | Measured Power Density [dBm] | Max Power Density [dBm/MHz] | Margin [dB] |
|---------|-----------------|-------------|-------------|-------|------------------|------------------------------|-----------------------------|-------------|
| Band 1 | 5180 | 36 | ax (20MHz) | 52T | MCS0 | 6.33 | 11.00 | -4.67 |
| | 5200 | 40 | ax (20MHz) | 52T | MCS0 | 7.52 | 11.00 | -3.48 |
| | 5240 | 48 | ax (20MHz) | 52T | MCS0 | 8.38 | 11.00 | -2.62 |
| | 5190 | 38 | ax (40MHz) | 52T | MCS0 | 6.12 | 11.00 | -4.88 |
| | 5230 | 46 | ax (40MHz) | 52T | MCS0 | 6.22 | 11.00 | -4.78 |
| | 5210 | 42 | ax (80MHz) | 52T | MCS0 | 7.66 | 11.00 | -3.34 |
| Band 2A | 5260 | 52 | ax (20MHz) | 52T | MCS0 | 8.94 | 11.00 | -2.06 |
| | 5280 | 56 | ax (20MHz) | 52T | MCS0 | 9.23 | 11.00 | -1.77 |
| | 5320 | 64 | ax (20MHz) | 52T | MCS0 | 9.20 | 11.00 | -1.80 |
| | 5270 | 54 | ax (40MHz) | 52T | MCS0 | 6.65 | 11.00 | -4.35 |
| | 5310 | 62 | ax (40MHz) | 52T | MCS0 | 7.22 | 11.00 | -3.78 |
| | 5290 | 58 | ax (80MHz) | 52T | MCS0 | 6.83 | 11.00 | -4.17 |
| Band 2C | 5500 | 100 | ax (20MHz) | 52T | MCS0 | 8.78 | 11.00 | -2.22 |
| | 5600 | 120 | ax (20MHz) | 52T | MCS0 | 7.56 | 11.00 | -3.44 |
| | 5720 | 144 | ax (20MHz) | 52T | MCS0 | 6.86 | 11.00 | -4.14 |
| | 5510 | 102 | ax (40MHz) | 52T | MCS0 | 7.05 | 11.00 | -3.95 |
| | 5590 | 118 | ax (40MHz) | 52T | MCS0 | 5.29 | 11.00 | -5.71 |
| | 5710 | 142 | ax (40MHz) | 52T | MCS0 | 5.99 | 11.00 | -5.01 |
| | 5530 | 106 | ax (80MHz) | 52T | MCS0 | 7.80 | 11.00 | -3.20 |
| | 5610 | 122 | ax (80MHz) | 52T | MCS0 | 7.94 | 11.00 | -3.06 |
| | 5690 | 138 | ax (80MHz) | 52T | MCS0 | 8.33 | 11.00 | -2.67 |

Table 7-66. Bands 1, 2A, 2C Conducted Power Spectral Density Measurements SISO ANT1 (52 Tones)

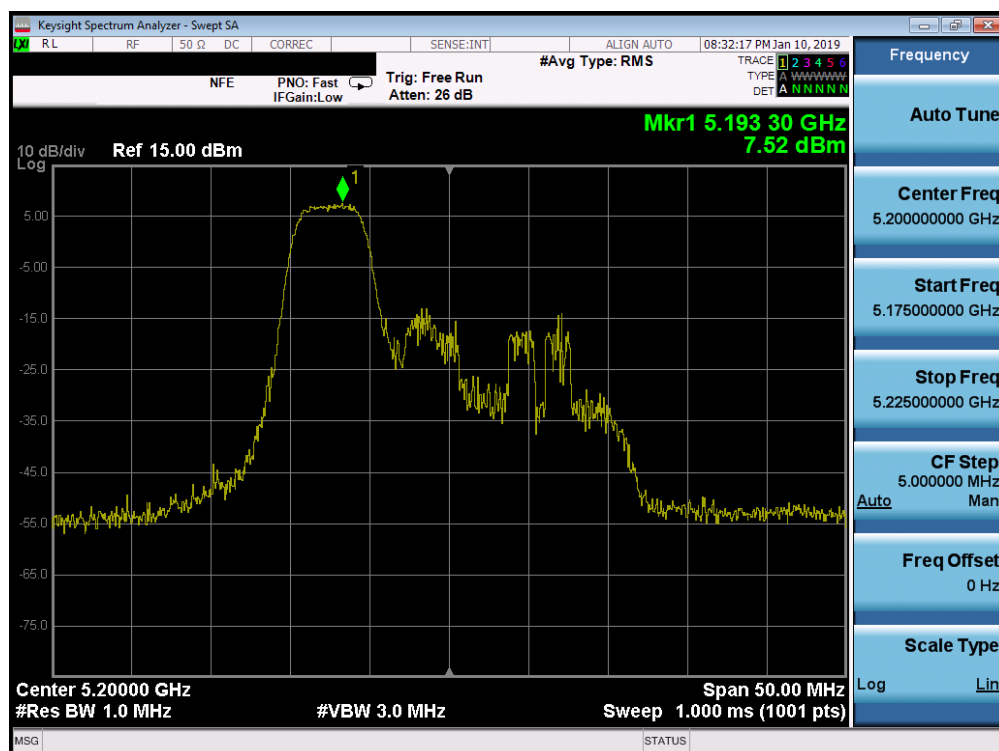
| | Frequency [MHz] | Channel No. | 802.11 Mode | Tones | Data Rate [Mbps] | Measured Power Density [dBm] | Antenna Gain [dBi] | e.i.r.p. Power Density [dBm/MHz] | ISED Max e.i.r.p. Power Density [dBm/MHz] | Margin [dB] |
|--------|-----------------|-------------|-------------|-------|------------------|------------------------------|--------------------|----------------------------------|---|-------------|
| Band 1 | 5180 | 36 | ax (20MHz) | 52T | MCS0 | 6.33 | -7.94 | -1.61 | 10.0 | -11.61 |
| | 5200 | 40 | ax (20MHz) | 52T | MCS0 | 7.52 | -7.51 | 0.01 | 10.0 | -9.99 |
| | 5240 | 48 | ax (20MHz) | 52T | MCS0 | 8.38 | -7.44 | 0.94 | 10.0 | -9.06 |
| | 5190 | 38 | ax (40MHz) | 52T | MCS0 | 6.12 | -7.94 | -1.82 | 10.0 | -11.82 |
| | 5230 | 46 | ax (40MHz) | 52T | MCS0 | 6.22 | -7.44 | -1.22 | 10.0 | -11.22 |
| | 5210 | 42 | ax (80MHz) | 52T | MCS0 | 7.66 | -7.94 | -0.28 | 10.0 | -10.28 |

Table 7-67. Bands 1 e.i.r.p Conducted Power Spectral Density Measurements (ISED 52 Tones)

| | | | |
|--|---|--------------------------------------|--|
| FCC ID: A3LSC03L |  MEASUREMENT REPORT (CERTIFICATION)  | | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | Page 120 of 514 |

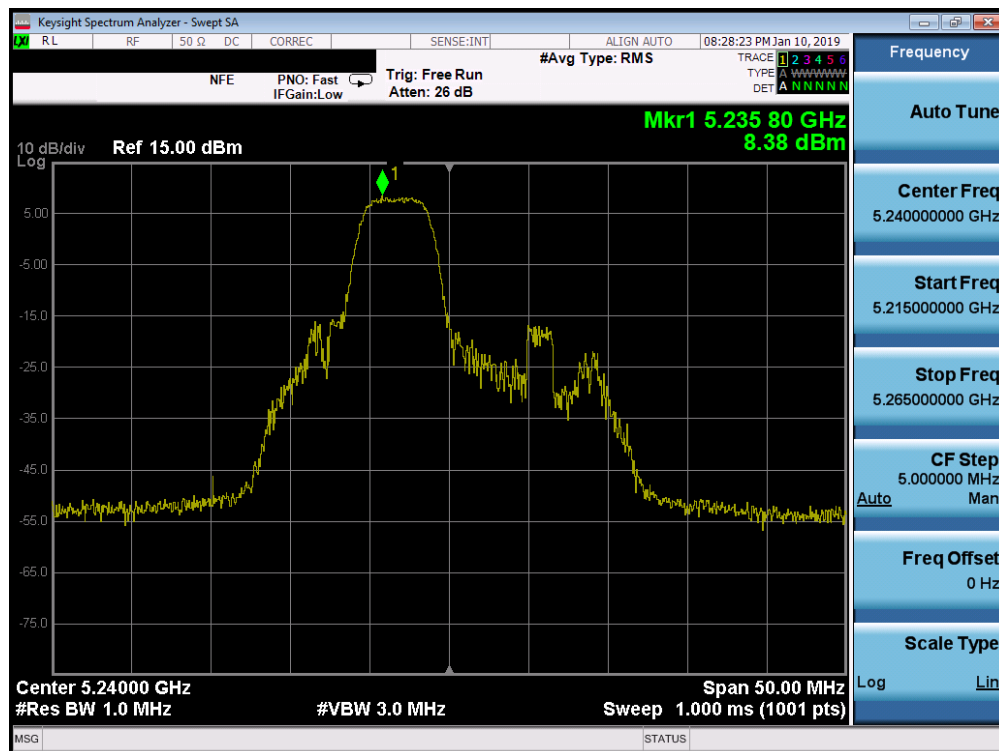


Plot 7-136. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 52 Tones (UNII Band 1) – Ch. 36)

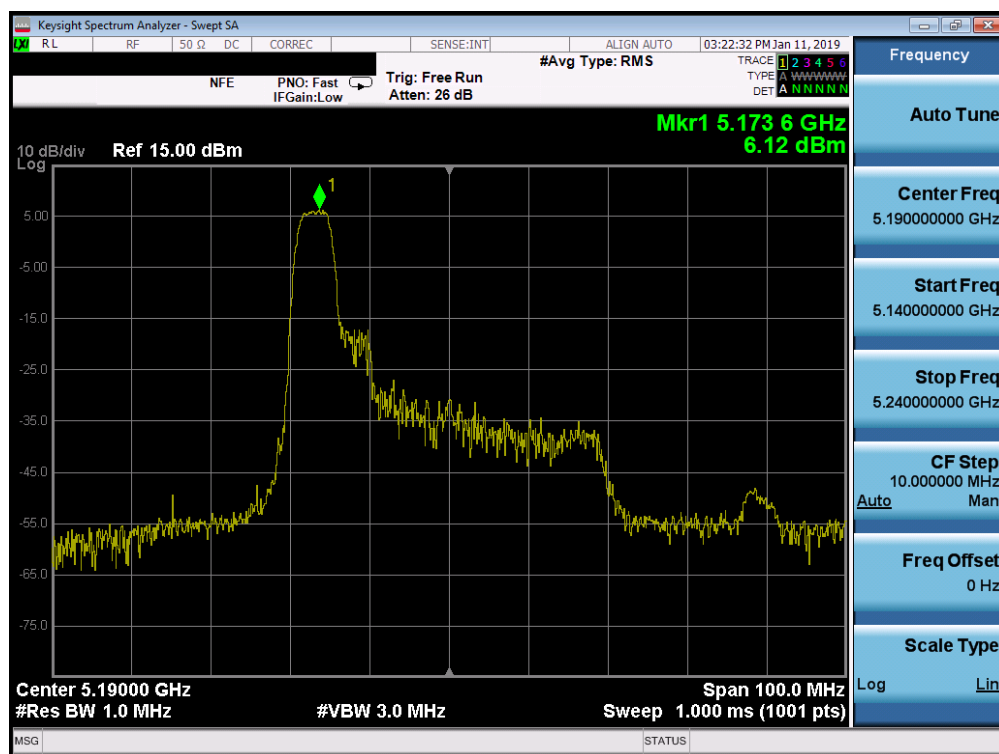


Plot 7-137. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 52 Tones (UNII Band 1) – Ch. 40)

| | | | | | |
|---|---------------------------------------|-------------------------------|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSC03L | | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | Page 121 of 514 | | |

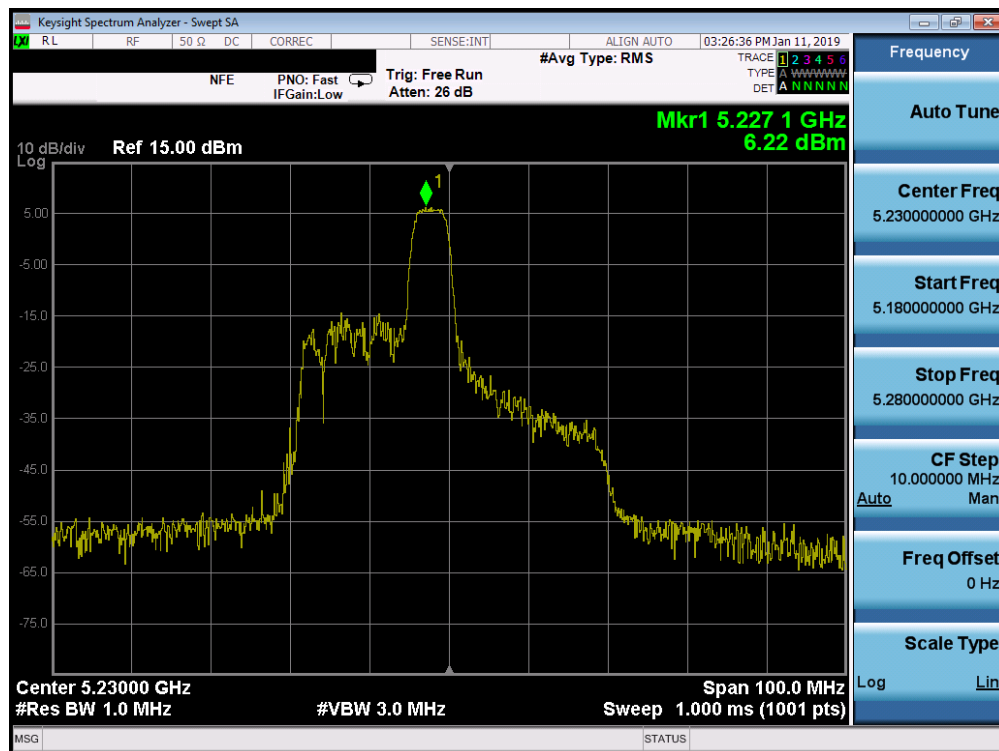


Plot 7-138. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 52 Tones (UNII Band 1) – Ch. 48)

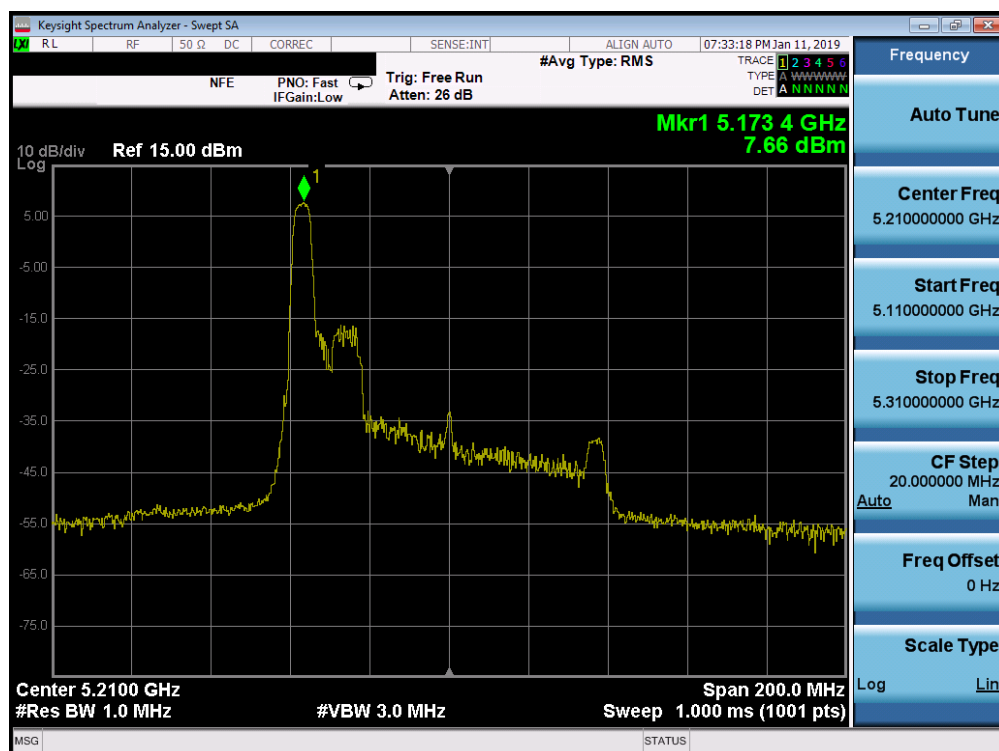


Plot 7-139. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 52 Tones (UNII Band 1) – Ch. 38)

| | | | | | |
|---|---------------------------------------|-------------------------------|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSC03L | | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | Page 122 of 514 | | |

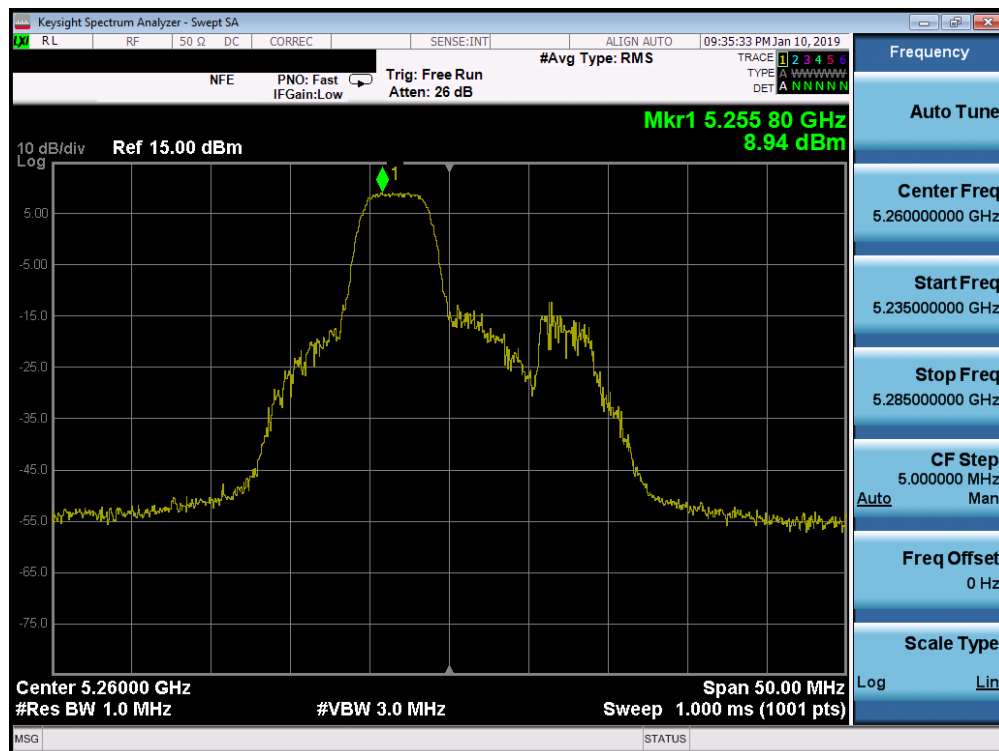


Plot 7-140. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 52 Tones (UNII Band 1) – Ch. 46)

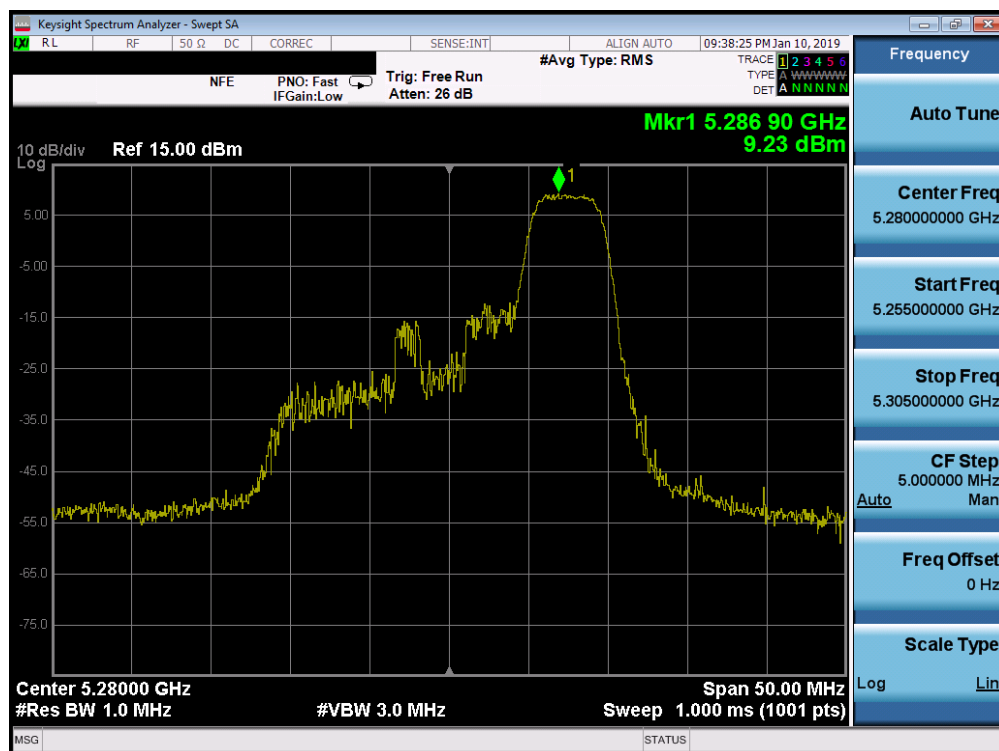


Plot 7-141. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 52 Tones (UNII Band 1) – Ch. 42)

| | | | | |
|---|---|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSC03L | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | | Page 123 of 514 |

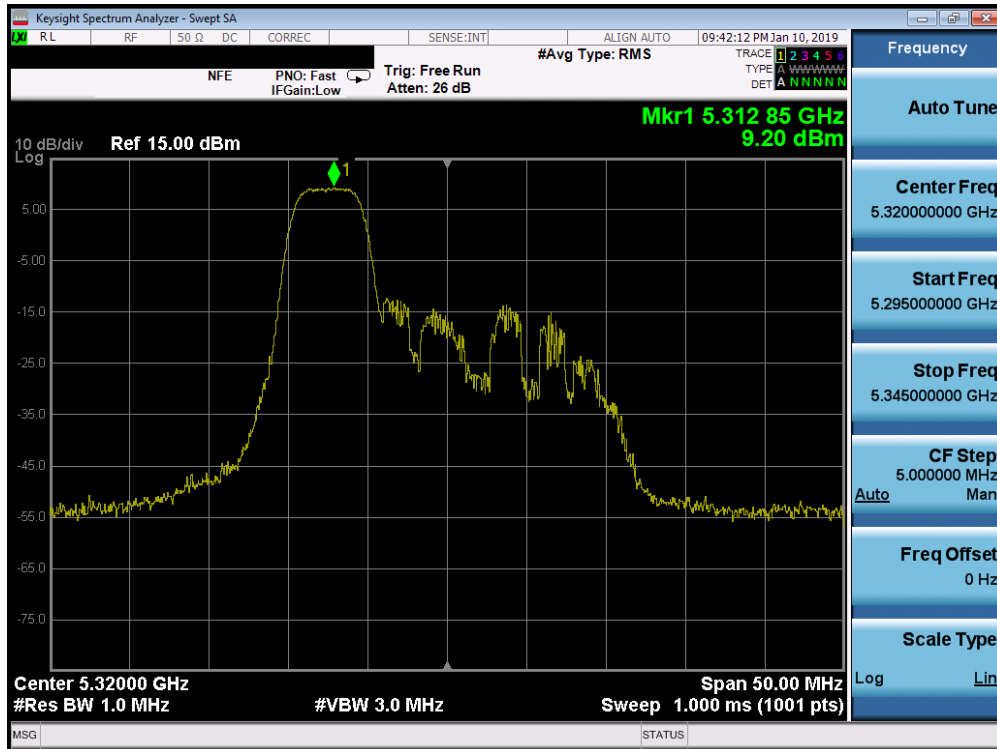


Plot 7-142. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 52 Tones (UNII Band 2A) – Ch. 52)

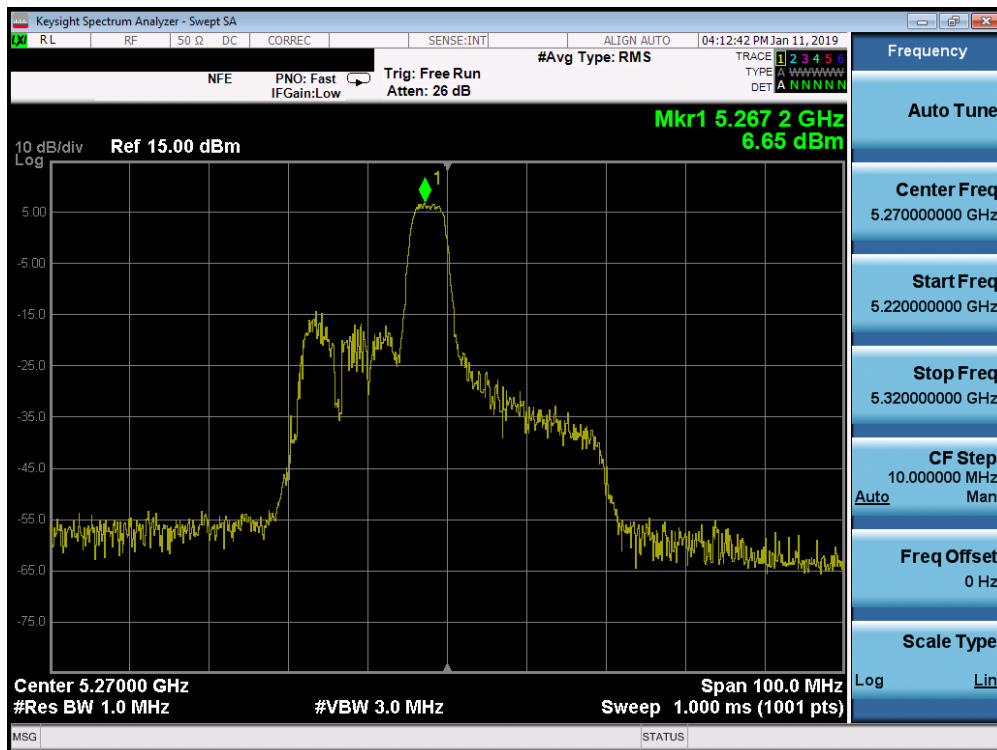


Plot 7-143. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 52 Tones (UNII Band 2A) – Ch. 56)

| | | | | | | |
|---|---------------------------------------|-------------------------------|---------------------------------------|-----------------|--|---------------------------------|
| FCC ID: A3LSC03L | | | MEASUREMENT REPORT (CERTIFICATION) | | | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | | Page 124 of 514 | | |

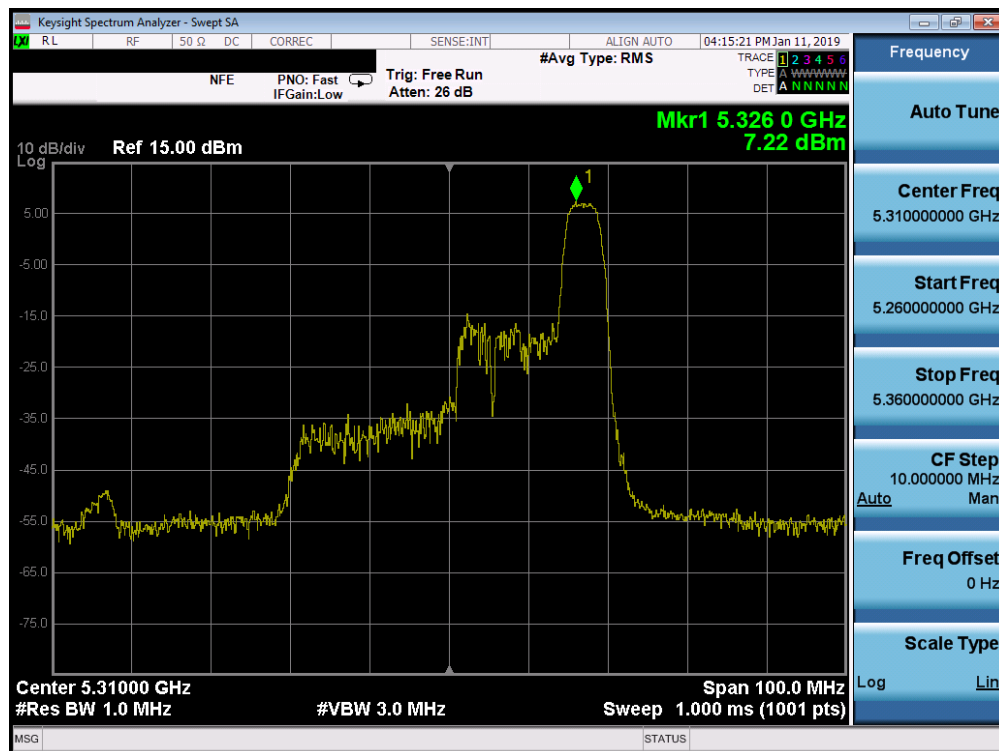


Plot 7-144. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 52 Tones (UNII Band 2A) – Ch. 64)

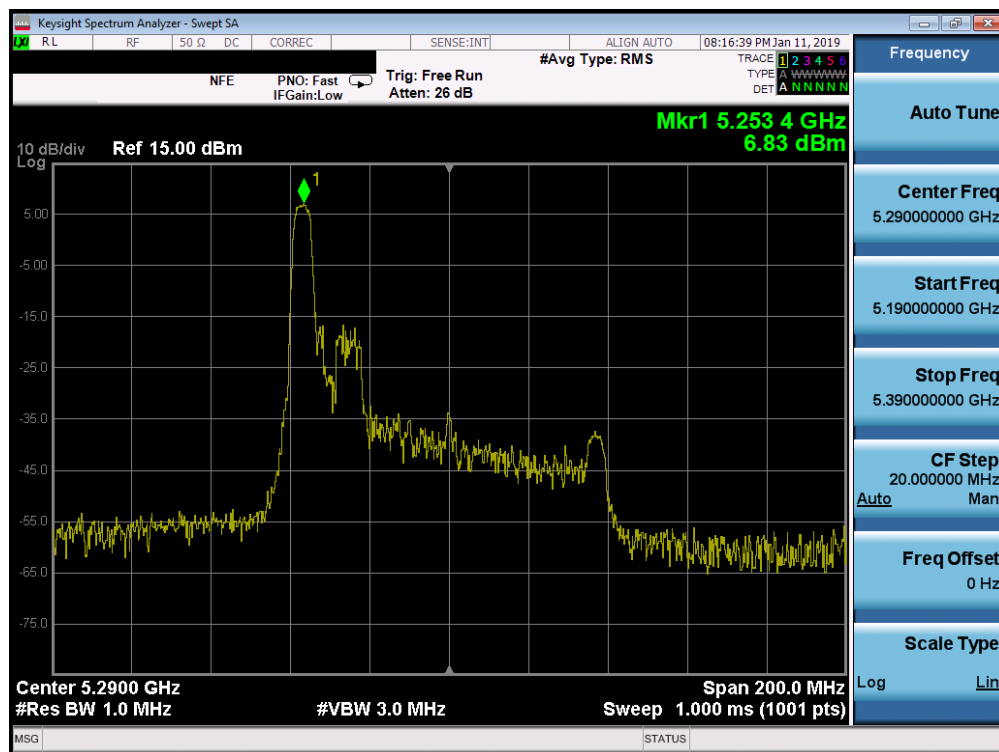


Plot 7-145. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 52 Tones (UNII Band 2A) – Ch. 54)

| | | | | | |
|---|---------------------------------------|-------------------------------|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSC03L | | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | Page 125 of 514 | | |

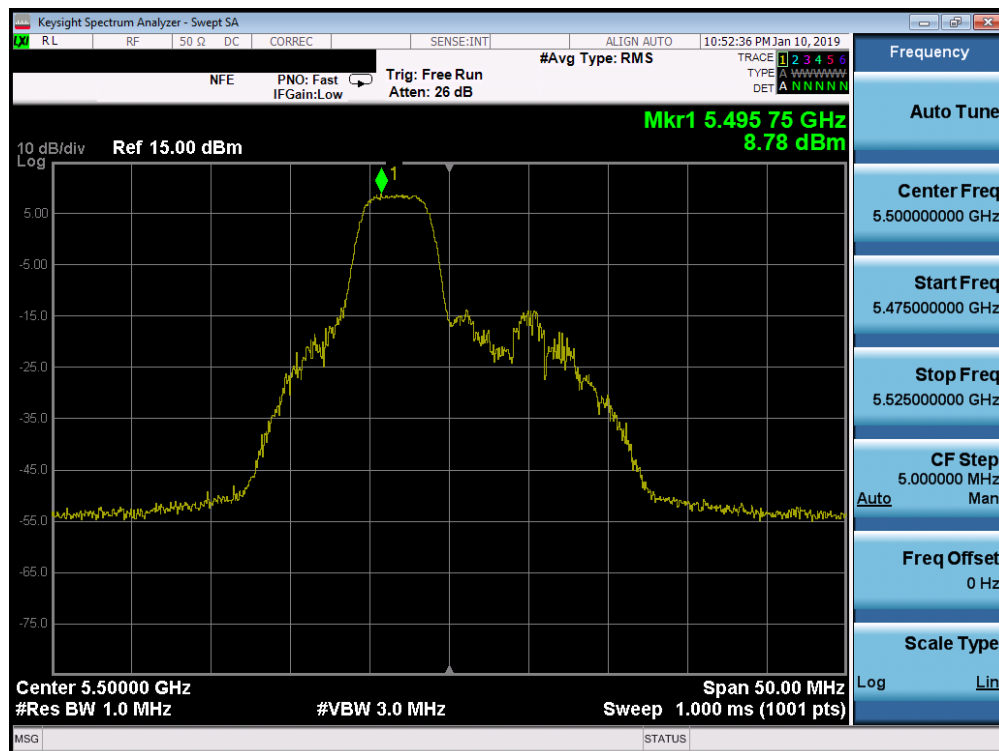


Plot 7-146. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 52 Tones (UNII Band 2A) – Ch. 62)

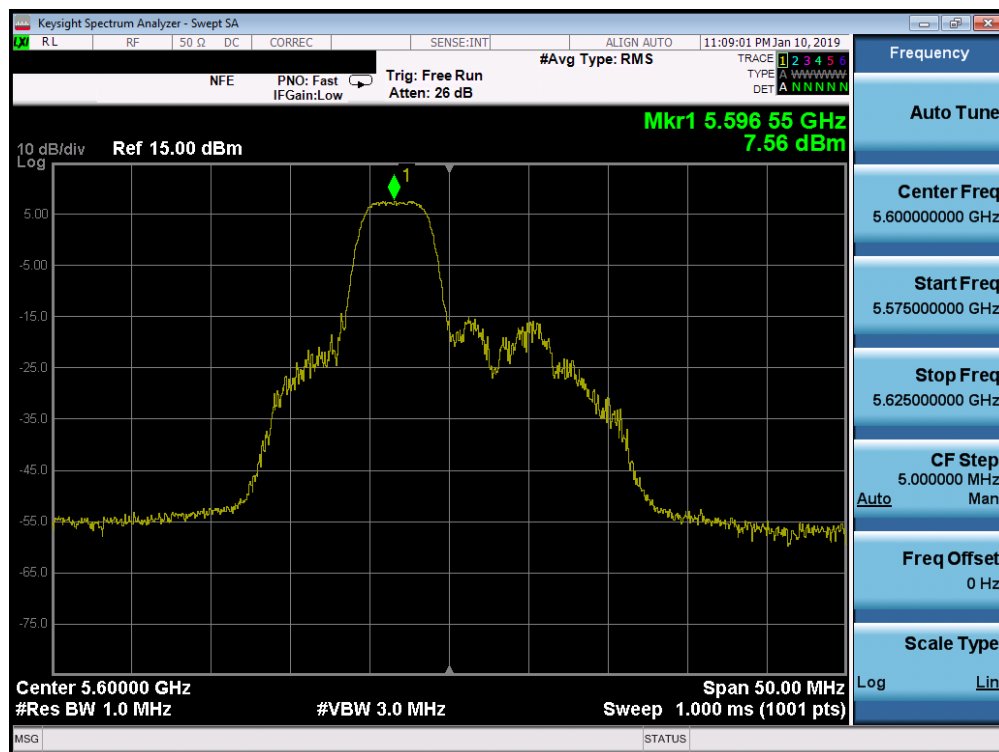


Plot 7-147. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 52 Tones (UNII Band 2A) – Ch. 58)

| | | | | | |
|---|---------------------------------------|-------------------------------|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSC03L | | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | Page 126 of 514 | | |

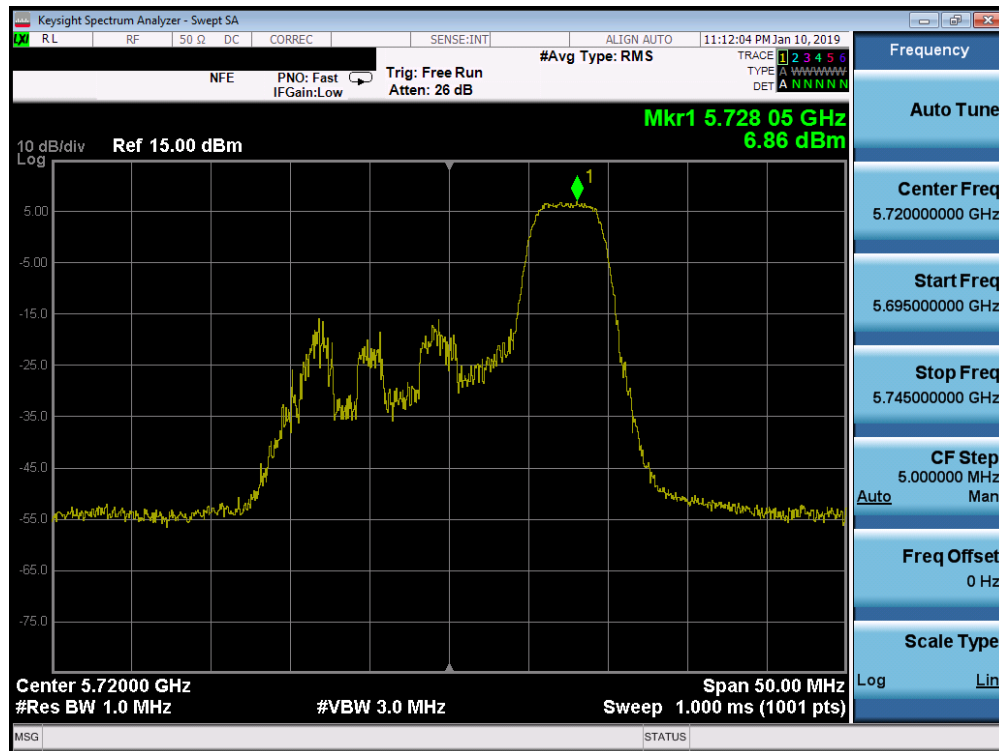


Plot 7-148. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 52 Tones (UNII Band 2C) – Ch. 100)

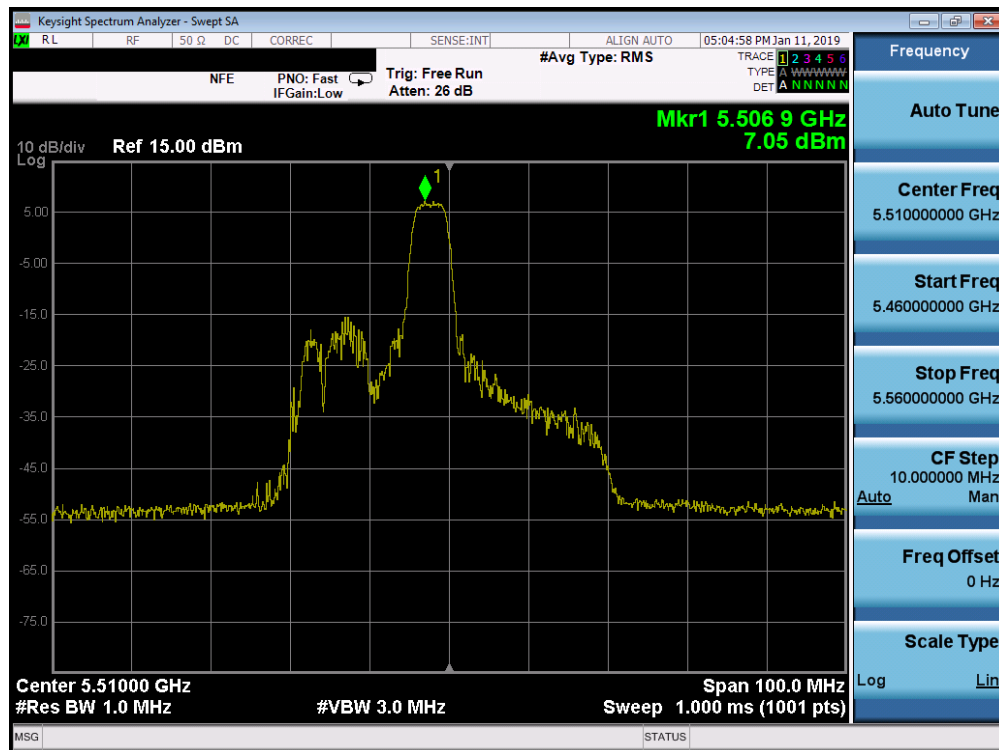


Plot 7-149. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 52 Tones (UNII Band 2C) – Ch. 120)

| | | | | |
|---|---|---------------------------------------|---|---------------------------------|
| FCC ID: A3LSC03L |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | | Page 127 of 514 |

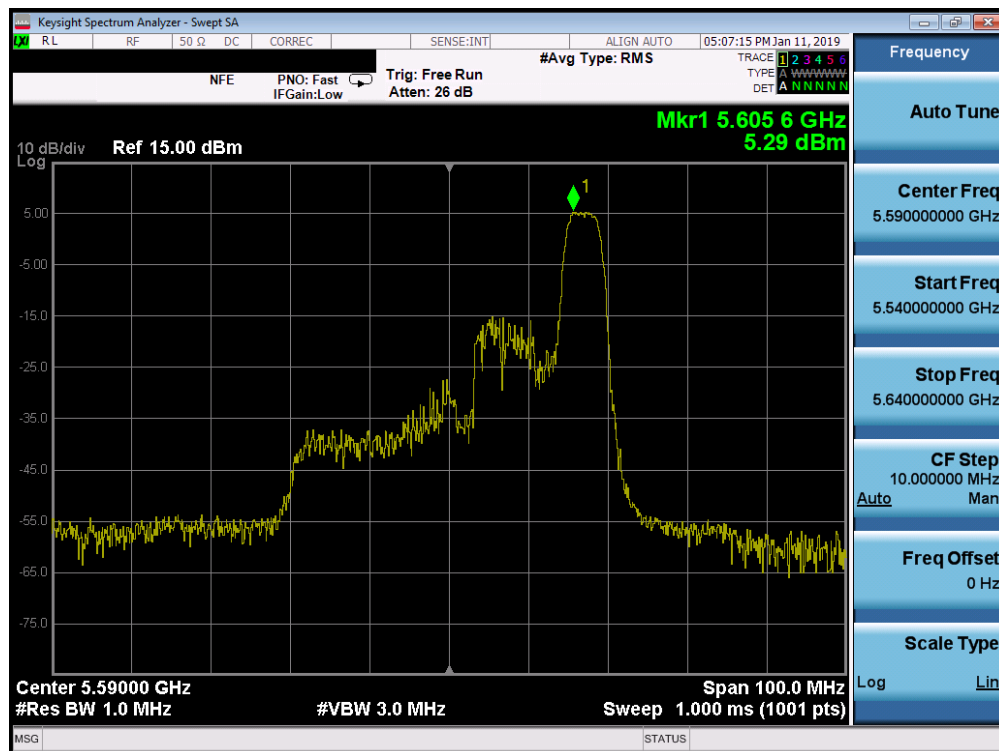


Plot 7-150. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 52 Tones (UNII Band 2C) – Ch. 144)

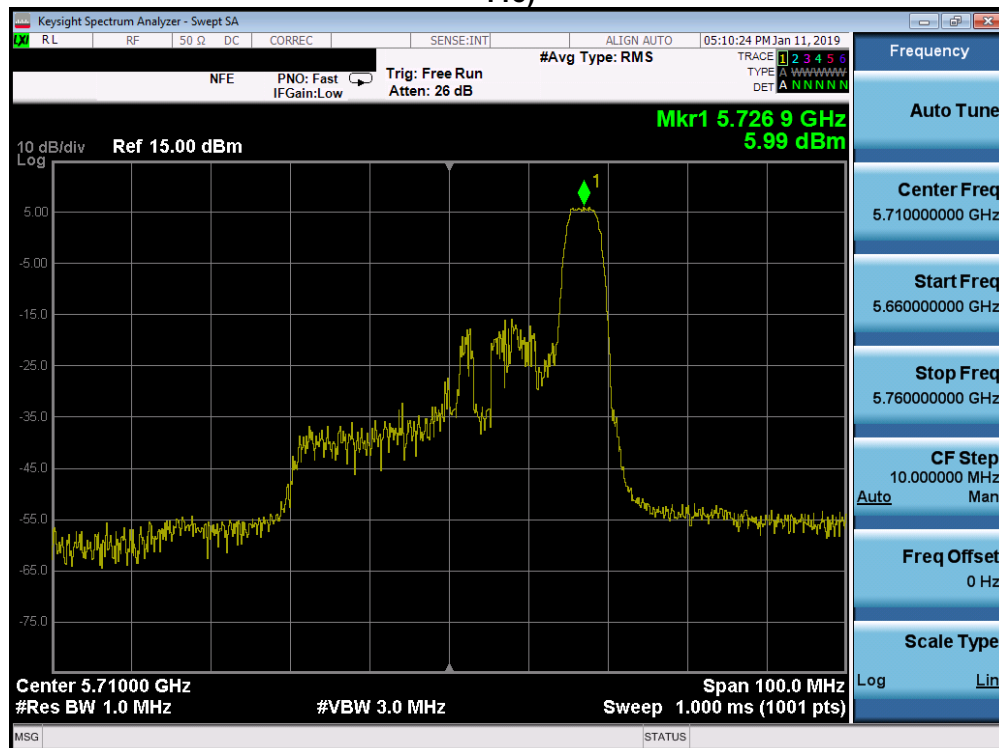


Plot 7-151. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 52 Tones (UNII Band 2C) – Ch. 102)

| | | | | |
|---|---|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSC03L | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | | Page 128 of 514 |

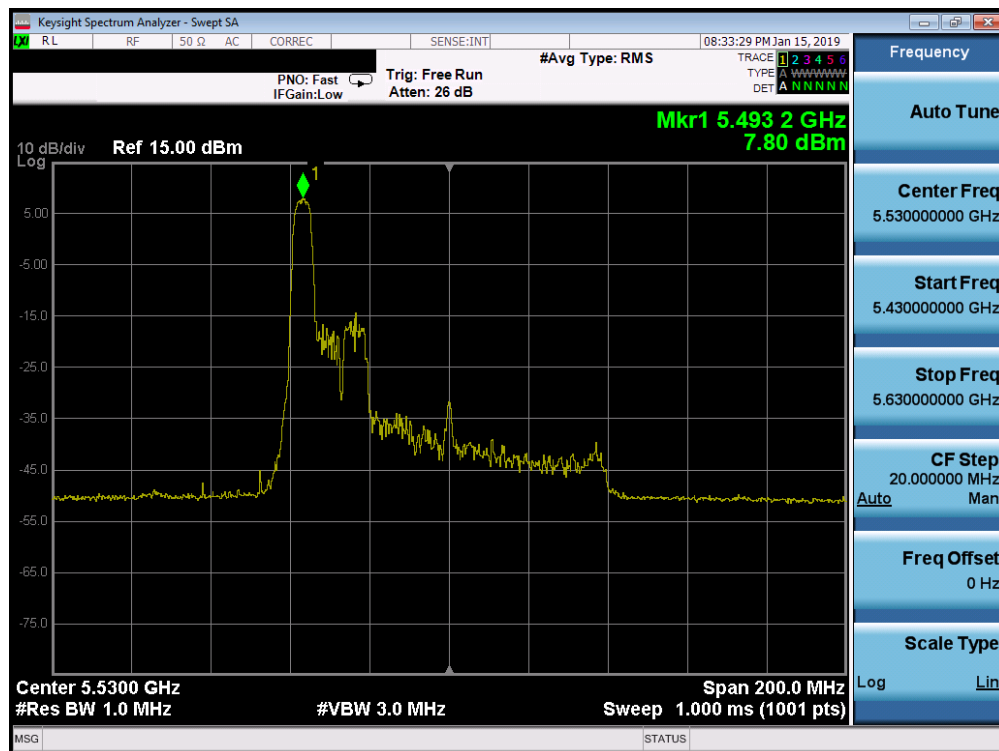


Plot 7-152. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 52 Tones (UNII Band 2C) – Ch. 118)

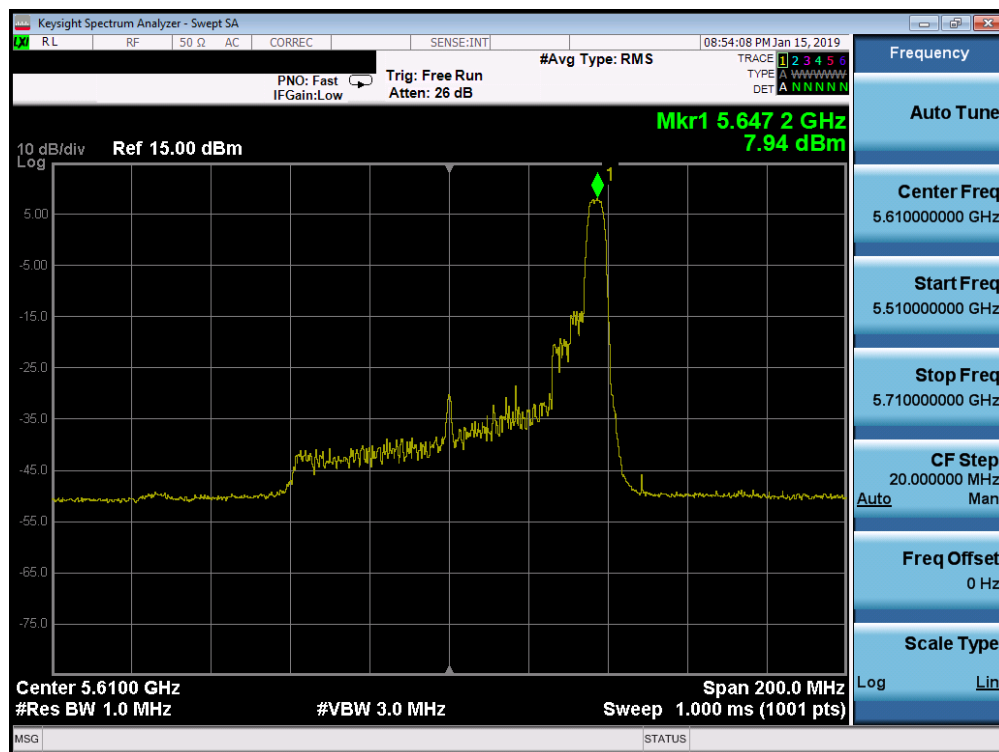


Plot 7-153. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 52 Tones (UNII Band 2C) – Ch. 142)

| | | | |
|---|---|-------------------------------|---------------------------------|
| FCC ID: A3LSC03L | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | Page 129 of 514 |

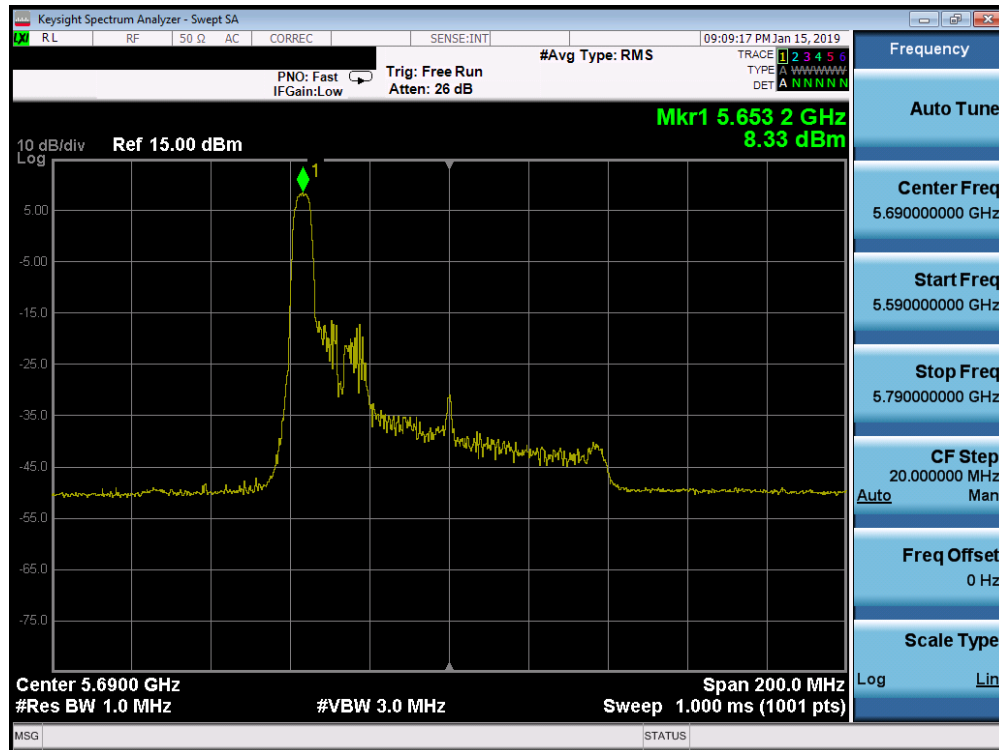


Plot 7-154. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 52 Tones (UNII Band 2C) – Ch. 106)



Plot 7-155. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 52 Tones (UNII Band 2C) – Ch. 122)

| | | | | | |
|---|---------------------------------------|-------------------------------|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSC03L | | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | Page 130 of 514 | | |

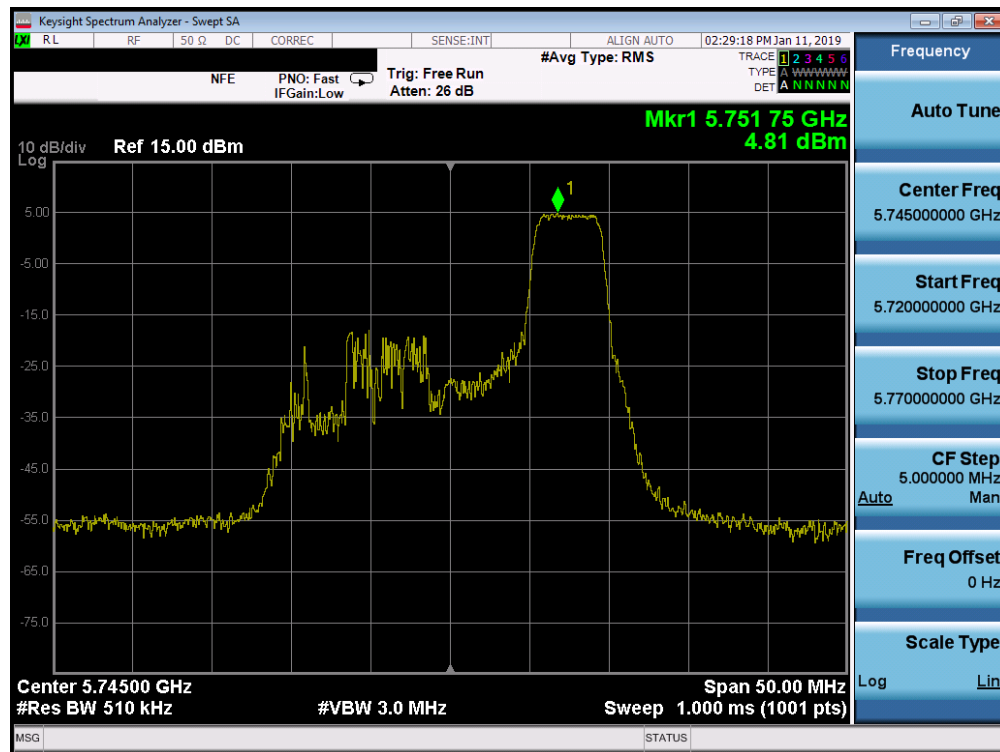


Plot 7-156. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 52 Tones (UNII Band 2C) – Ch. 138)

| | | | | |
|---|---------------------------------------|-------------------------------|--|---------------------------------|
| FCC ID: A3LSC03L | | | | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | | Page 131 of 514 |

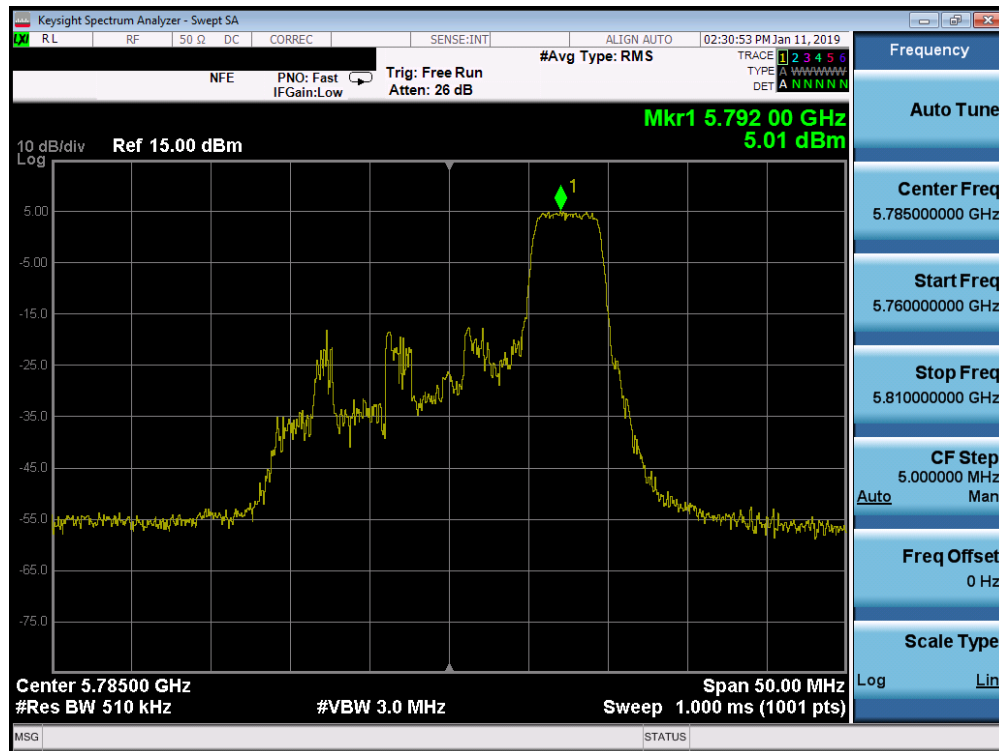
| | Frequency [MHz] | Channel No. | 802.11 Mode | Tones | Data Rate [Mbps] | Measured Power Density [dBm] | Max Permissible Power Density [dBm/500kHz] | Margin [dB] |
|---------------|-----------------|-------------|-------------|-------|------------------|------------------------------|--|-------------|
| Band 3 | 5745 | 149 | ax (20MHz) | 52T | MCS0 | 4.81 | 30.00 | -25.19 |
| | 5785 | 157 | ax (20MHz) | 52T | MCS0 | 5.01 | 30.00 | -24.99 |
| | 5825 | 165 | ax (20MHz) | 52T | MCS0 | 4.73 | 30.00 | -25.27 |
| | 5755 | 151 | ax (40MHz) | 52T | MCS0 | 3.47 | 30.00 | -26.53 |
| | 5795 | 159 | ax (40MHz) | 52T | MCS0 | 3.73 | 30.00 | -26.27 |
| | 5775 | 155 | ax (80MHz) | 52T | MCS0 | 9.13 | 30.00 | -20.87 |

Table 7-68. Band 3 Conducted Power Spectral Density Measurements SISO ANT1 (52 Tones)

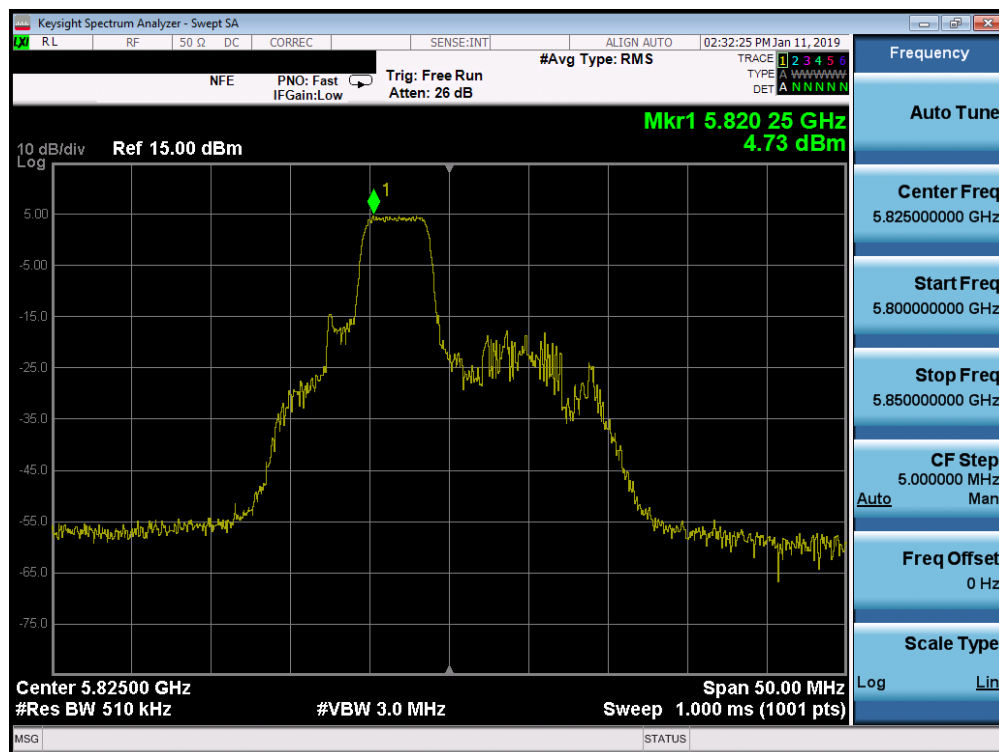


Plot 7-157. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 52 Tones (UNII Band 3) – Ch. 149)

| | | | | | |
|---|---------------------------------------|-------------------------------|------------------------------------|--|---------------------------------|
| FCC ID: A3LSC03L | | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | | | Page 132 of 514 |

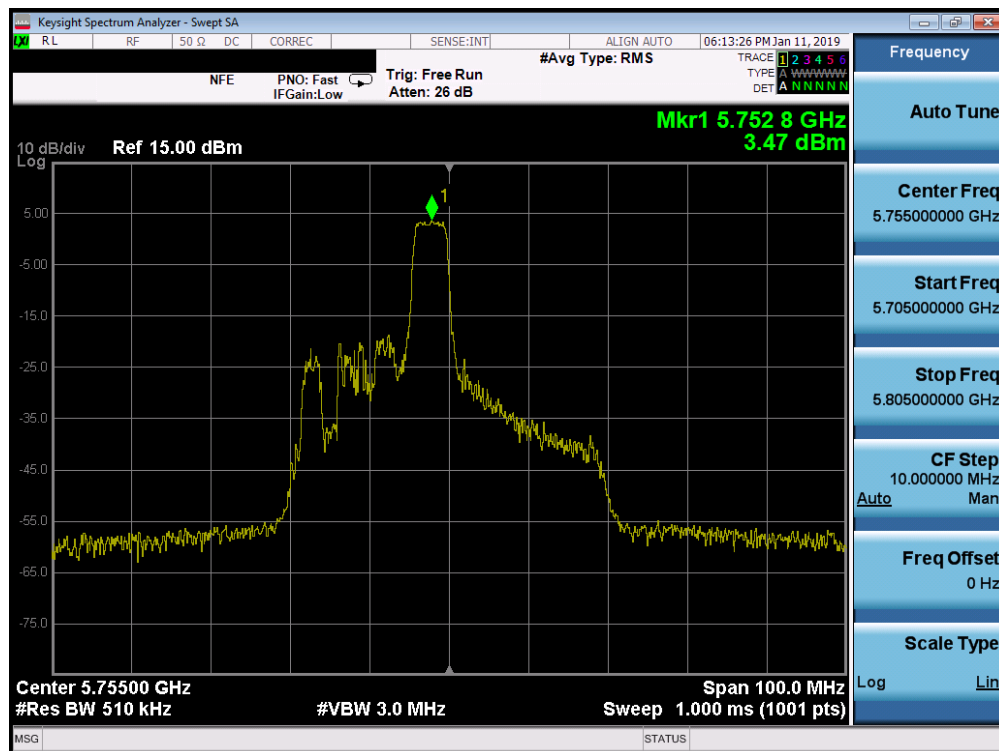


Plot 7-158. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 52 Tones (UNII Band 3) – Ch. 157)

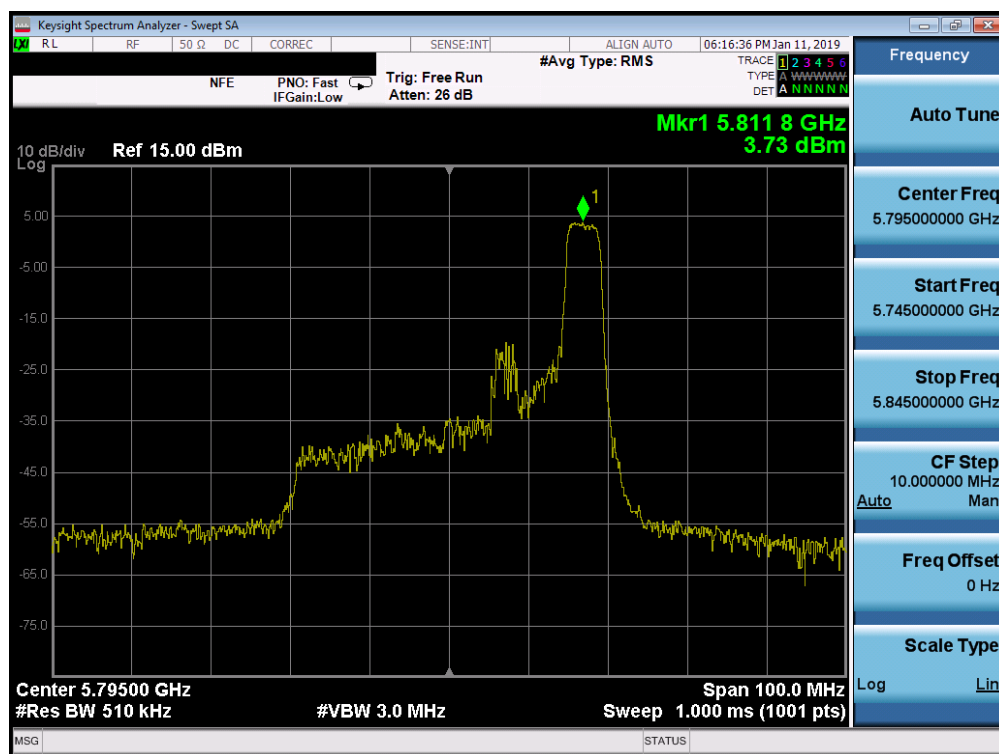


Plot 7-159. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 52 Tones (UNII Band 3) – Ch. 165)

| | | | | | |
|---|---|-------------------------------|---------------------------------------|---|---------------------------------|
| FCC ID: A3LSC03L |  | | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | | | Page 133 of 514 |

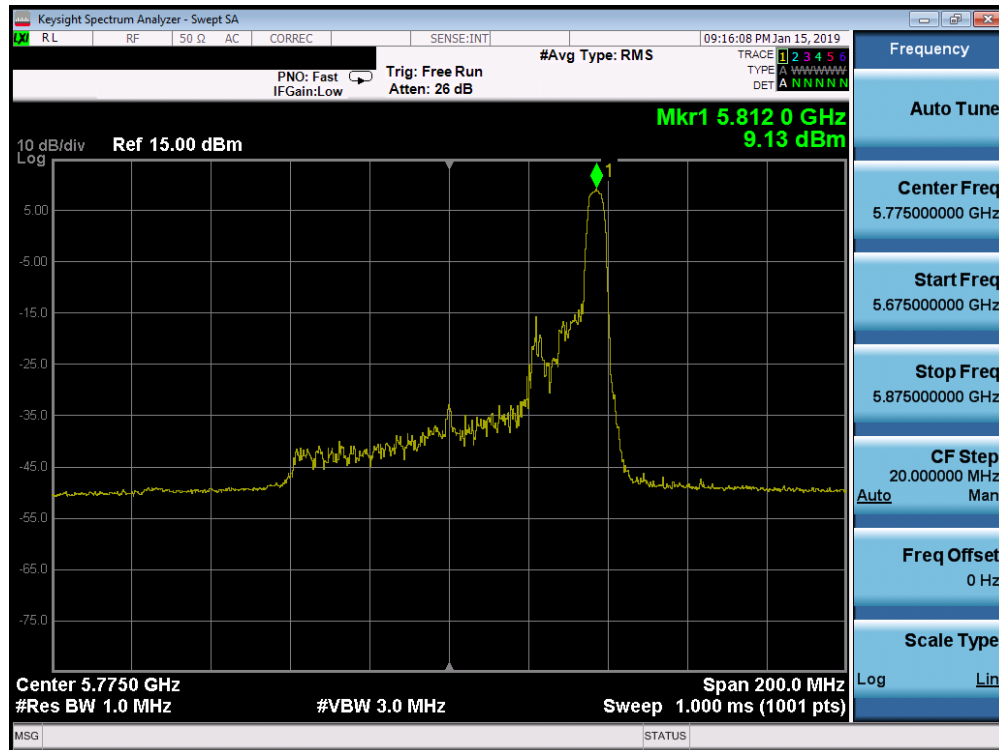


Plot 7-160. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 52 Tones (UNII Band 3) – Ch. 151)



Plot 7-161. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 52 Tones (UNII Band 3) – Ch. 159)

| | | | | | |
|---|---------------------------------------|-------------------------------|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSC03L | | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | Page 134 of 514 | | |



Plot 7-162. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 52 Tones (UNII Band 3) – Ch. 155)

| | | | | |
|---|---------------------------------------|-------------------------------|--|---------------------------------|
| FCC ID: A3LSC03L | | | | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | | Page 135 of 514 |

SISO Antenna-1 Power Spectral Density Measurements (106 Tones)

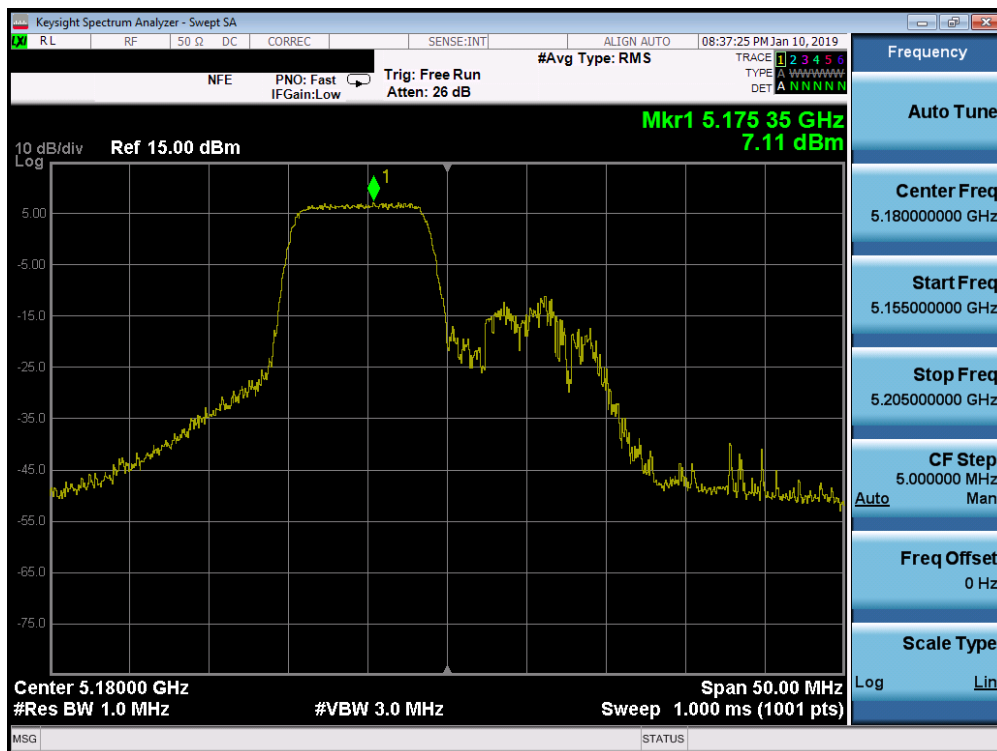
| | Frequency [MHz] | Channel No. | 802.11 Mode | Tones | Data Rate [Mbps] | Measured Power Density [dBm] | Max Power Density [dBm/MHz] | Margin [dB] |
|---------|-----------------|-------------|-------------|-------|------------------|------------------------------|-----------------------------|-------------|
| Band 1 | 5180 | 36 | ax (20MHz) | 106T | MCS0 | 7.11 | 11.00 | -3.89 |
| | 5200 | 40 | ax (20MHz) | 106T | MCS0 | 5.94 | 11.00 | -5.06 |
| | 5240 | 48 | ax (20MHz) | 106T | MCS0 | 6.88 | 11.00 | -4.12 |
| | 5190 | 38 | ax (40MHz) | 106T | MCS0 | 5.32 | 11.00 | -5.68 |
| | 5230 | 46 | ax (40MHz) | 106T | MCS0 | 5.34 | 11.00 | -5.66 |
| | 5210 | 42 | ax (80MHz) | 106T | MCS0 | 5.76 | 11.00 | -5.24 |
| Band 2A | 5260 | 52 | ax (20MHz) | 106T | MCS0 | 7.52 | 11.00 | -3.48 |
| | 5280 | 56 | ax (20MHz) | 106T | MCS0 | 7.64 | 11.00 | -3.36 |
| | 5320 | 64 | ax (20MHz) | 106T | MCS0 | 9.41 | 11.00 | -1.59 |
| | 5270 | 54 | ax (40MHz) | 106T | MCS0 | 6.19 | 11.00 | -4.81 |
| | 5310 | 62 | ax (40MHz) | 106T | MCS0 | 6.20 | 11.00 | -4.80 |
| | 5290 | 58 | ax (80MHz) | 106T | MCS0 | 5.34 | 11.00 | -5.66 |
| Band 2C | 5500 | 100 | ax (20MHz) | 106T | MCS0 | 7.79 | 11.00 | -3.21 |
| | 5600 | 120 | ax (20MHz) | 106T | MCS0 | 6.85 | 11.00 | -4.15 |
| | 5720 | 144 | ax (20MHz) | 106T | MCS0 | 5.86 | 11.00 | -5.14 |
| | 5510 | 102 | ax (40MHz) | 106T | MCS0 | 5.87 | 11.00 | -5.13 |
| | 5590 | 118 | ax (40MHz) | 106T | MCS0 | 4.96 | 11.00 | -6.04 |
| | 5710 | 142 | ax (40MHz) | 106T | MCS0 | 4.84 | 11.00 | -6.16 |
| | 5530 | 106 | ax (80MHz) | 106T | MCS0 | 5.84 | 11.00 | -5.16 |
| | 5610 | 122 | ax (80MHz) | 106T | MCS0 | 6.87 | 11.00 | -4.13 |
| | 5690 | 138 | ax (80MHz) | 106T | MCS0 | 7.44 | 11.00 | -3.56 |
| | | | | | | | | |

Table 7-69. Bands 1, 2A, 2C Conducted Power Spectral Density Measurements SISO ANT1 (106 Tones)

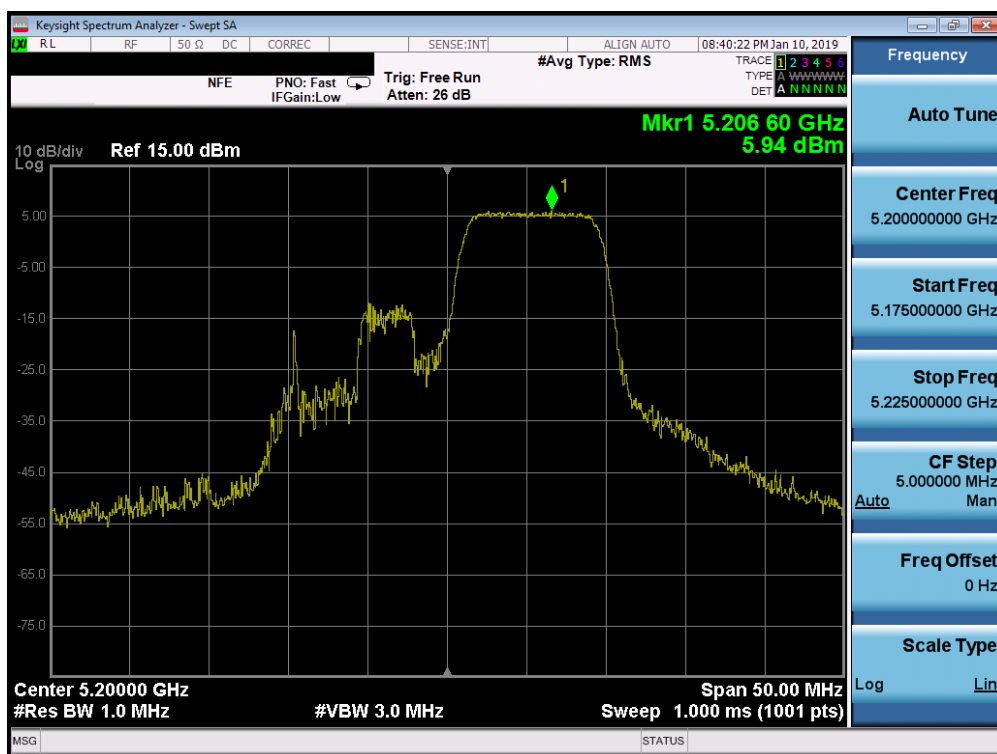
| | Frequency [MHz] | Channel No. | 802.11 Mode | Tones | Data Rate [Mbps] | Measured Power Density [dBm] | Antenna Gain [dBi] | e.i.r.p. Power Density [dBm/MHz] | ISED Max e.i.r.p. Power Density [dBm/MHz] | Margin [dB] |
|--------|-----------------|-------------|-------------|-------|------------------|------------------------------|--------------------|----------------------------------|---|-------------|
| Band 1 | 5180 | 36 | ax (20MHz) | 106T | MCS0 | 7.11 | -7.94 | -0.83 | 10.0 | -10.83 |
| | 5200 | 40 | ax (20MHz) | 106T | MCS0 | 5.94 | -7.51 | -1.57 | 10.0 | -11.57 |
| | 5240 | 48 | ax (20MHz) | 106T | MCS0 | 6.88 | -7.44 | -0.56 | 10.0 | -10.56 |
| | 5190 | 38 | ax (40MHz) | 106T | MCS0 | 5.32 | -7.94 | -2.62 | 10.0 | -12.62 |
| | 5230 | 46 | ax (40MHz) | 106T | MCS0 | 5.34 | -7.44 | -2.10 | 10.0 | -12.10 |
| | 5210 | 42 | ax (80MHz) | 106T | MCS0 | 5.76 | -7.94 | -2.18 | 10.0 | -12.18 |

Table 7-70. Bands 1 e.i.r.p Conducted Power Spectral Density Measurements (ISED 106 Tones)

| | | | |
|--|---|--------------------------------------|--|
| FCC ID: A3LSC03L |  MEASUREMENT REPORT (CERTIFICATION)  | | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | Page 136 of 514 |

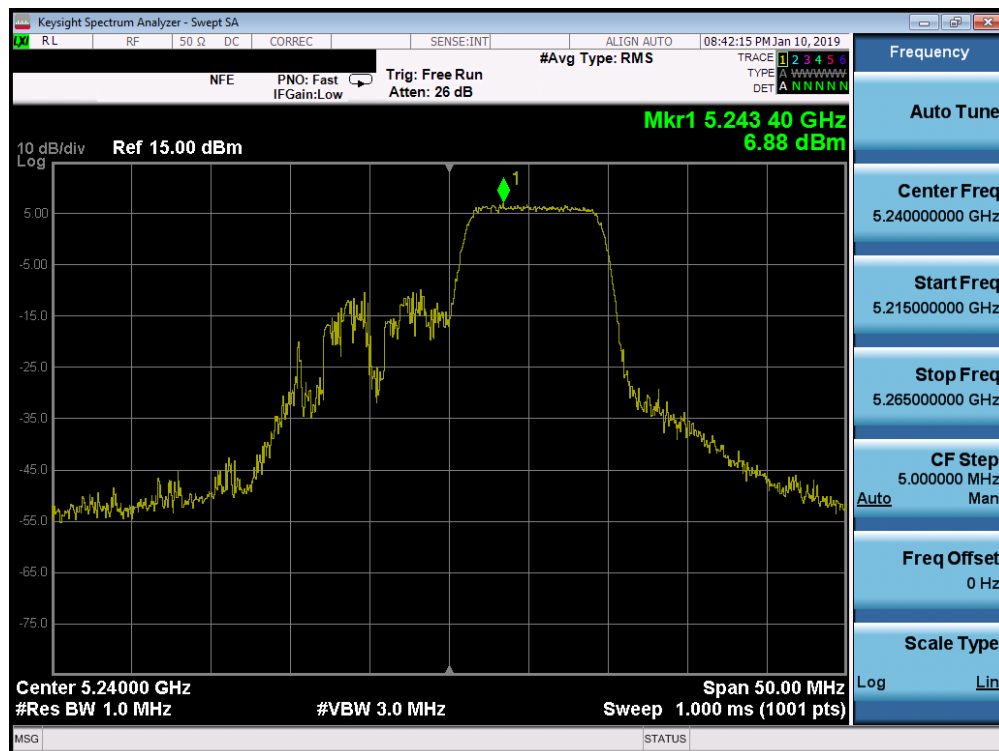


Plot 7-163. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 106 Tones (UNII Band 1) – Ch. 36)

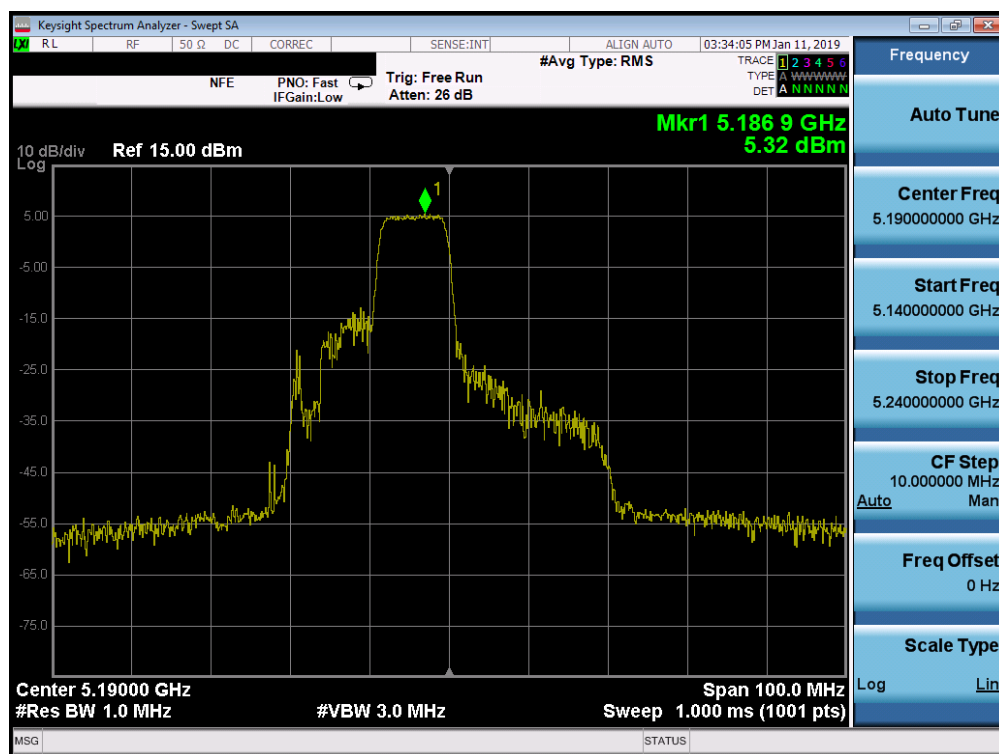


Plot 7-164. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 106 Tones (UNII Band 1) – Ch. 40)

| | | | | |
|---|---|---------------------------------------|---|---------------------------------|
| FCC ID: A3LSC03L |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | | Page 137 of 514 |

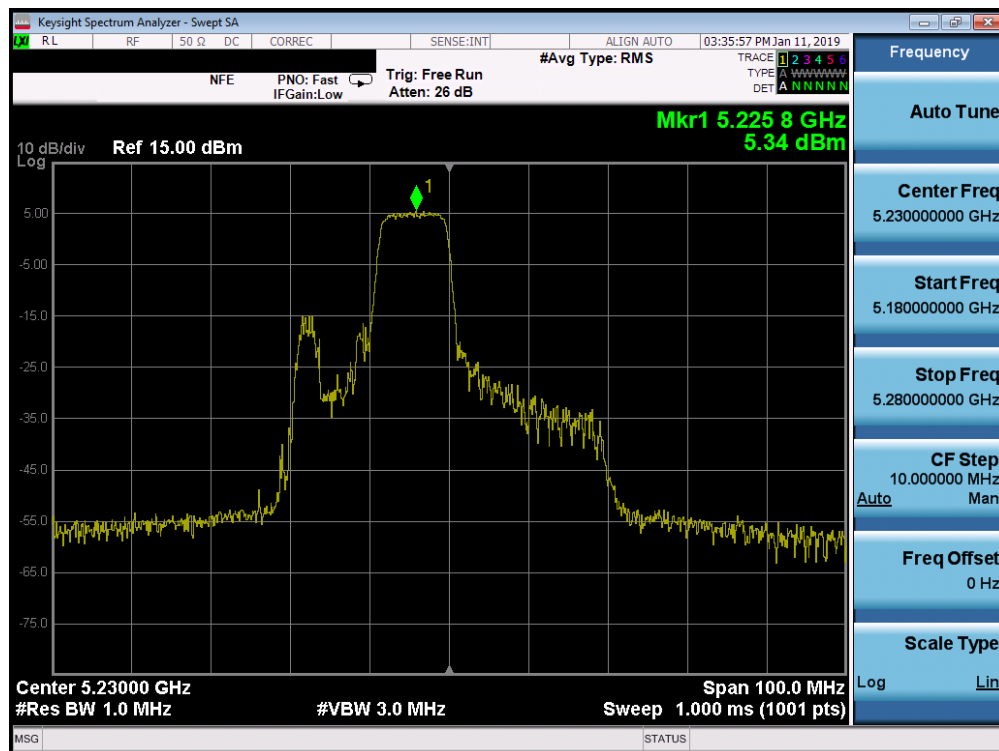


Plot 7-165. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 106 Tones (UNII Band 1) – Ch. 48)

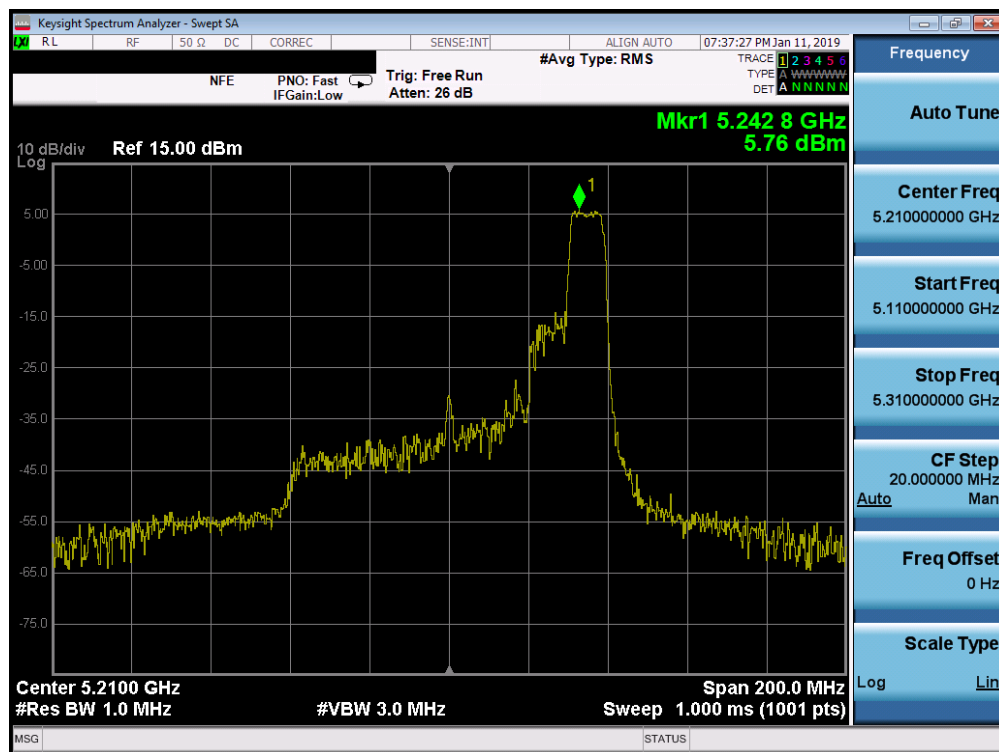


Plot 7-166. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 106 Tones (UNII Band 1) – Ch. 38)

| | | | | |
|---|---|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSC03L | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | | Page 138 of 514 |

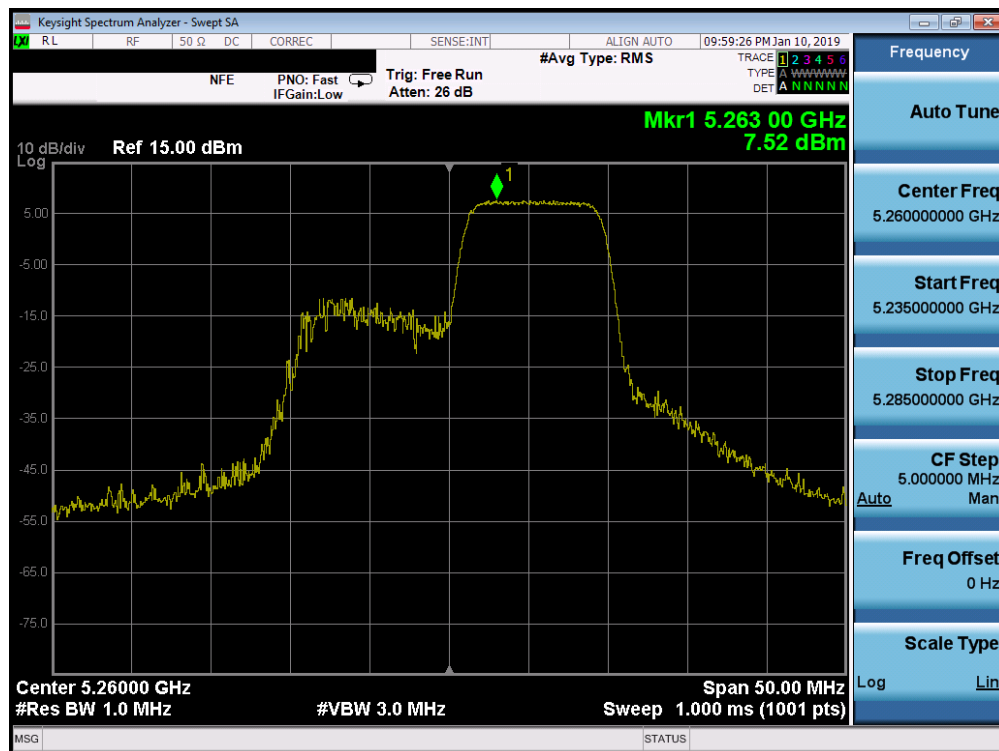


Plot 7-167. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 106 Tones (UNII Band 1) – Ch. 46)

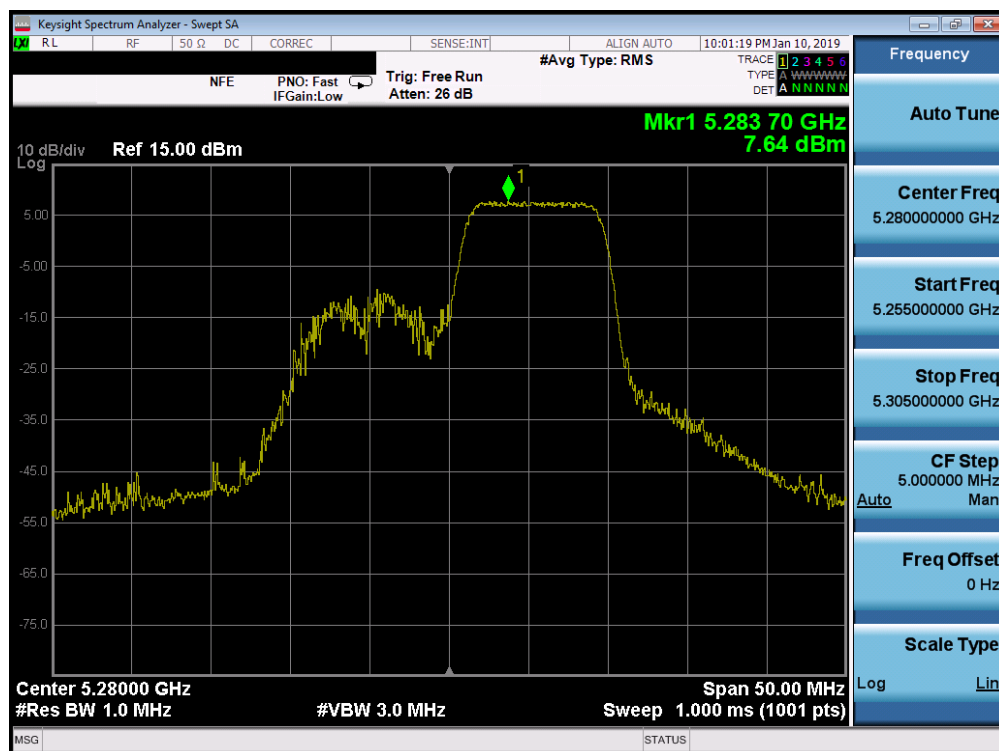


Plot 7-168. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 106 Tones (UNII Band 1) – Ch. 42)

| | | | | | |
|---|---------------------------------------|-------------------------------|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSC03L | | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | Page 139 of 514 | | |

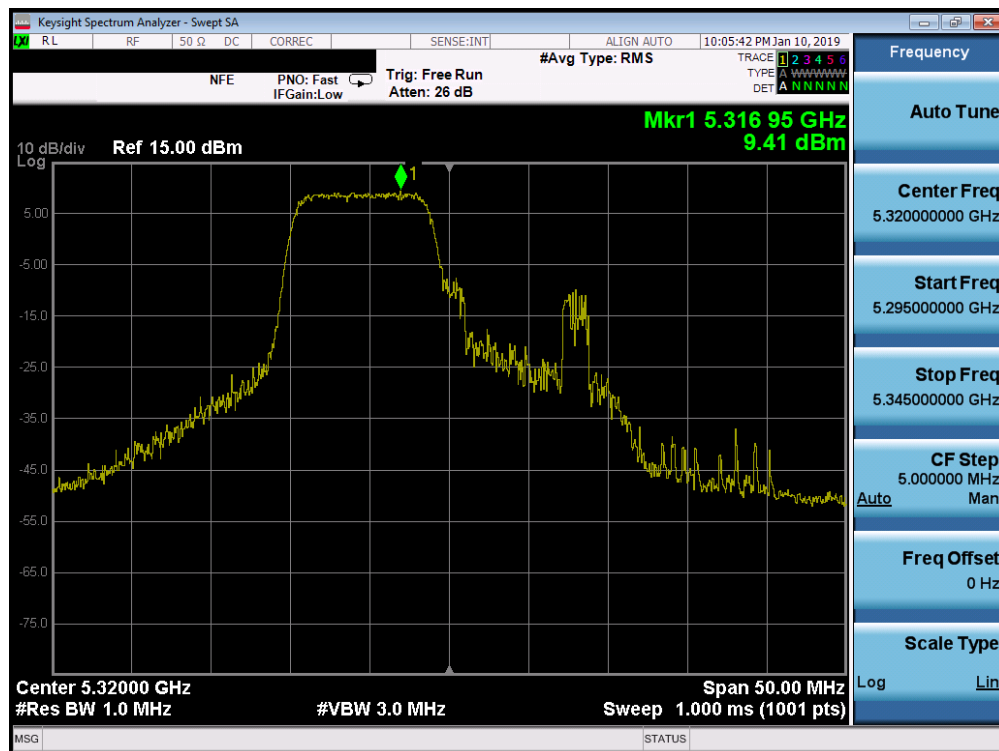


Plot 7-169. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 106 Tones (UNII Band 2A) – Ch. 52)

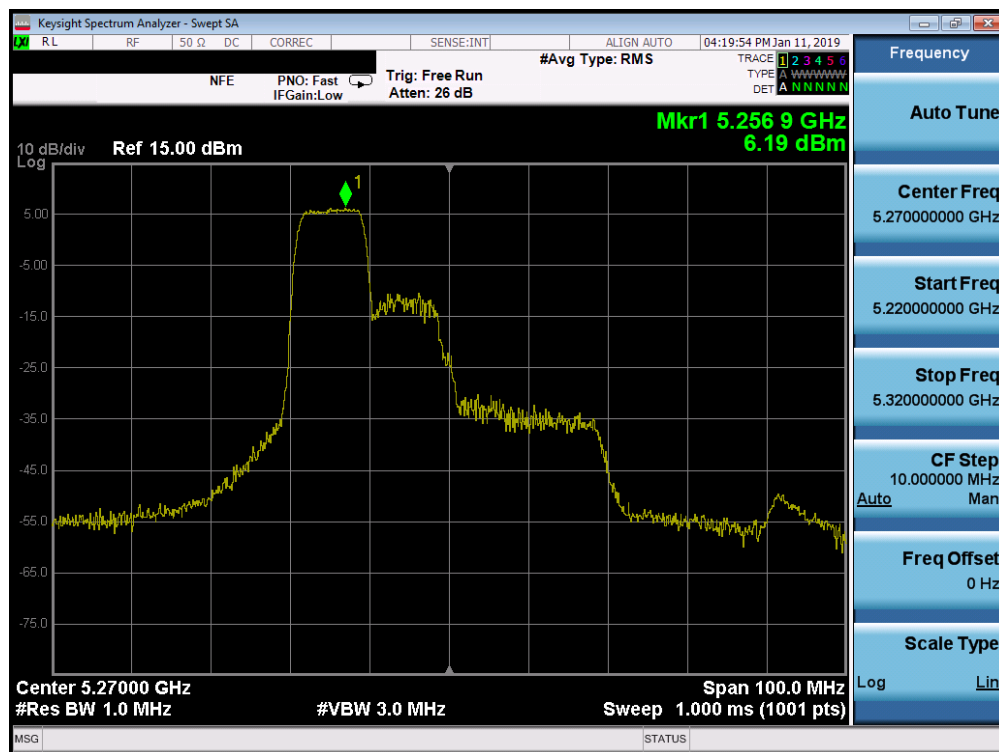


Plot 7-170. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 106 Tones (UNII Band 2A) – Ch. 56)

| | | | | |
|---|---|---------------------------------------|---|---------------------------------|
| FCC ID: A3LSC03L |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | | Page 140 of 514 |

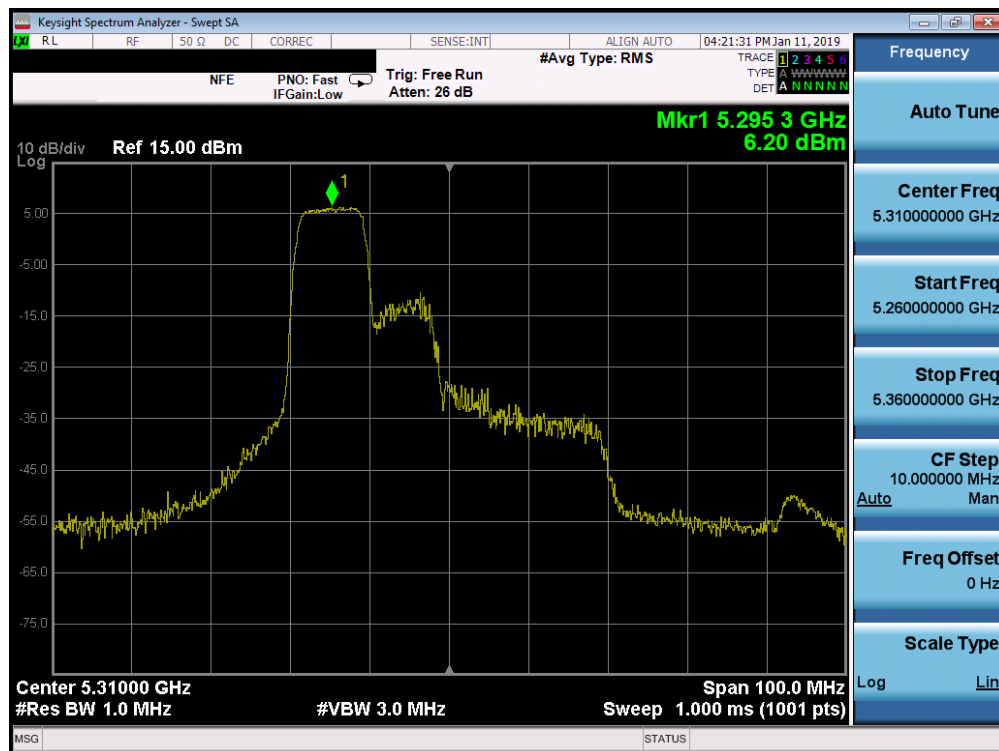


Plot 7-171. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 106 Tones (UNII Band 2A) – Ch. 64)

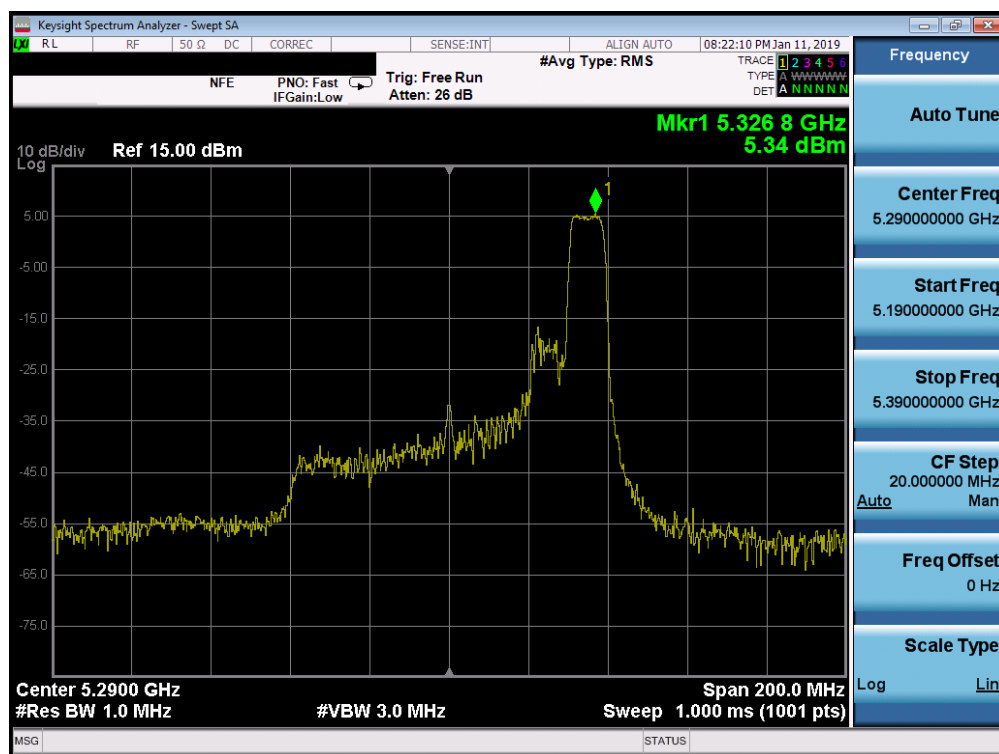


Plot 7-172. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 106 Tones (UNII Band 2A) – Ch. 54)

| | | | | |
|---|---|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSC03L | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | | Page 141 of 514 |

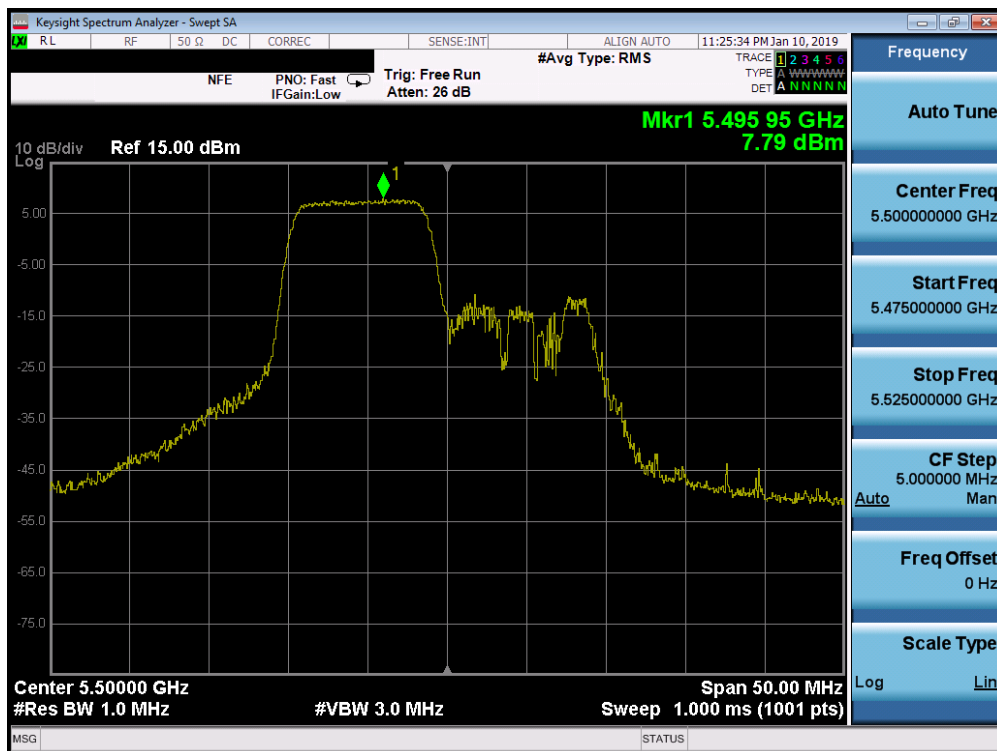


Plot 7-173. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 106 Tones (UNII Band 2A) – Ch. 62)

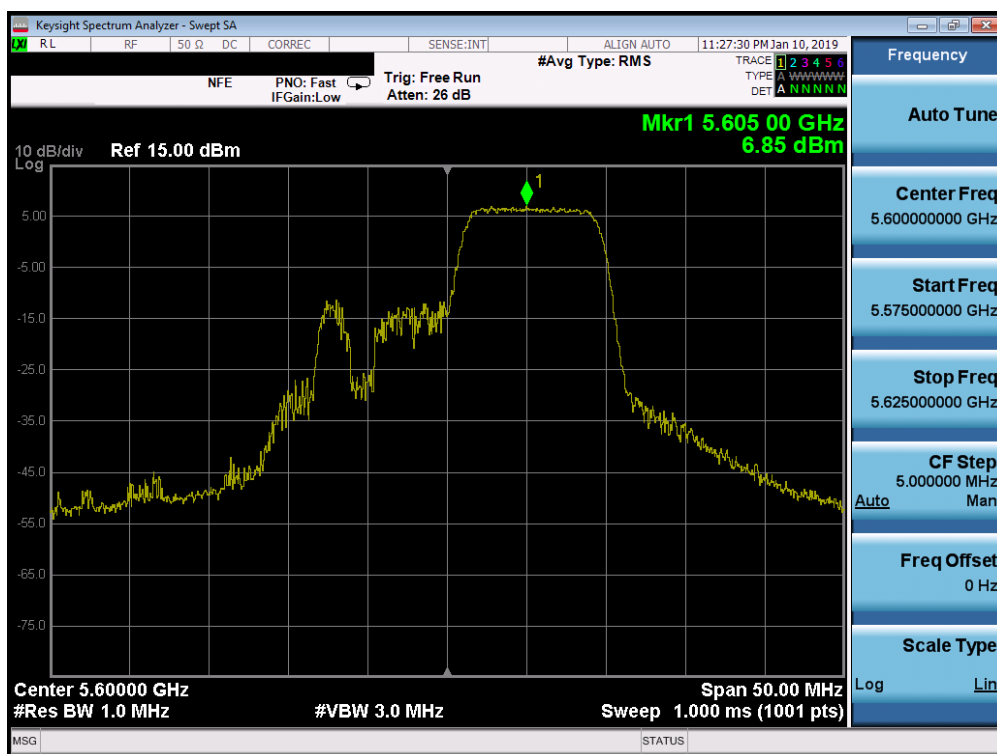


Plot 7-174. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 106 Tones (UNII Band 2A) – Ch. 58)

| | | | | |
|---|---|---------------------------------------|---|---------------------------------|
| FCC ID: A3LSC03L |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | | Page 142 of 514 |

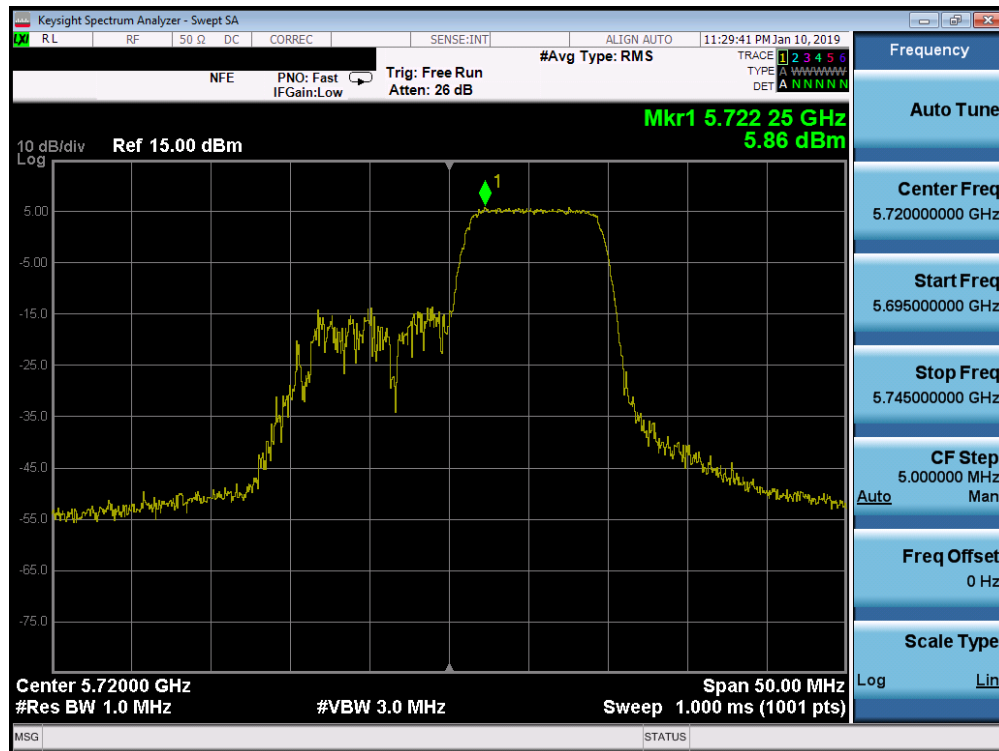


Plot 7-175. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 106 Tones (UNII Band 2C) – Ch. 100)

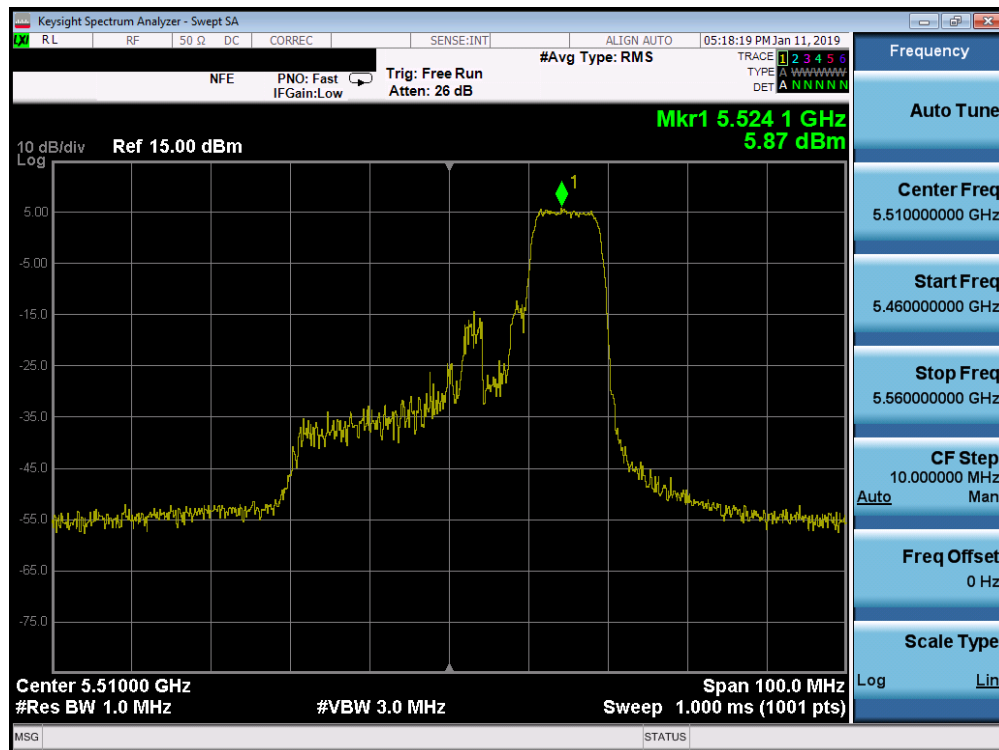


Plot 7-176. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 106 Tones (UNII Band 2C) – Ch. 120)

| | | | | |
|---|---|---------------------------------------|---|---------------------------------|
| FCC ID: A3LSC03L |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | | Page 143 of 514 |

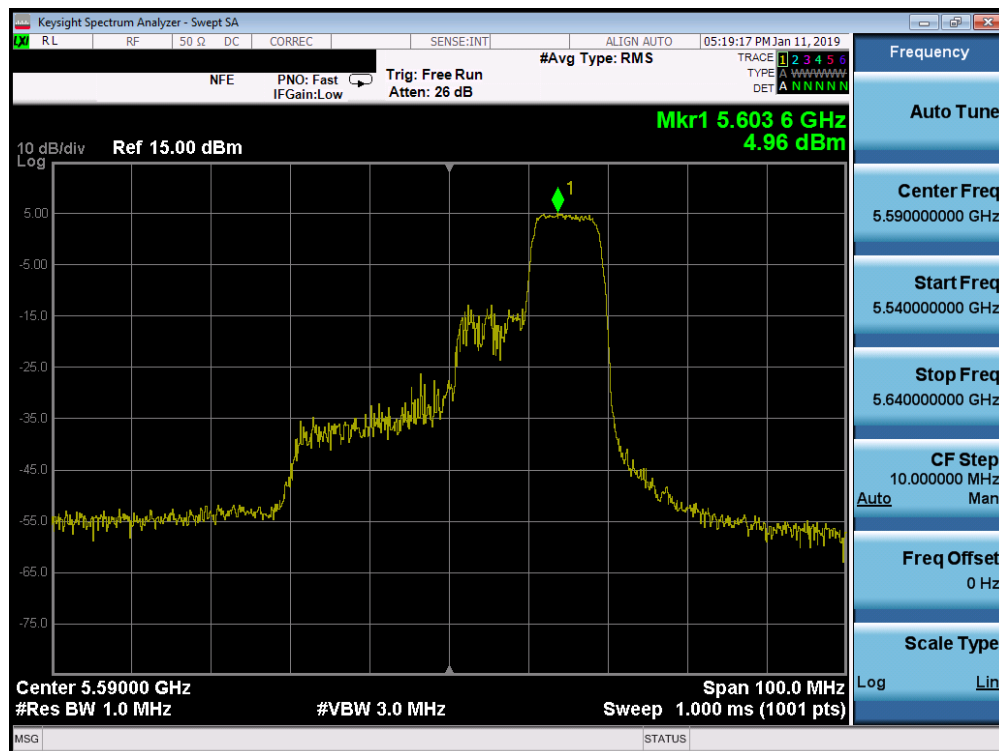


Plot 7-177. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 106 Tones (UNII Band 2C) – Ch. 144)

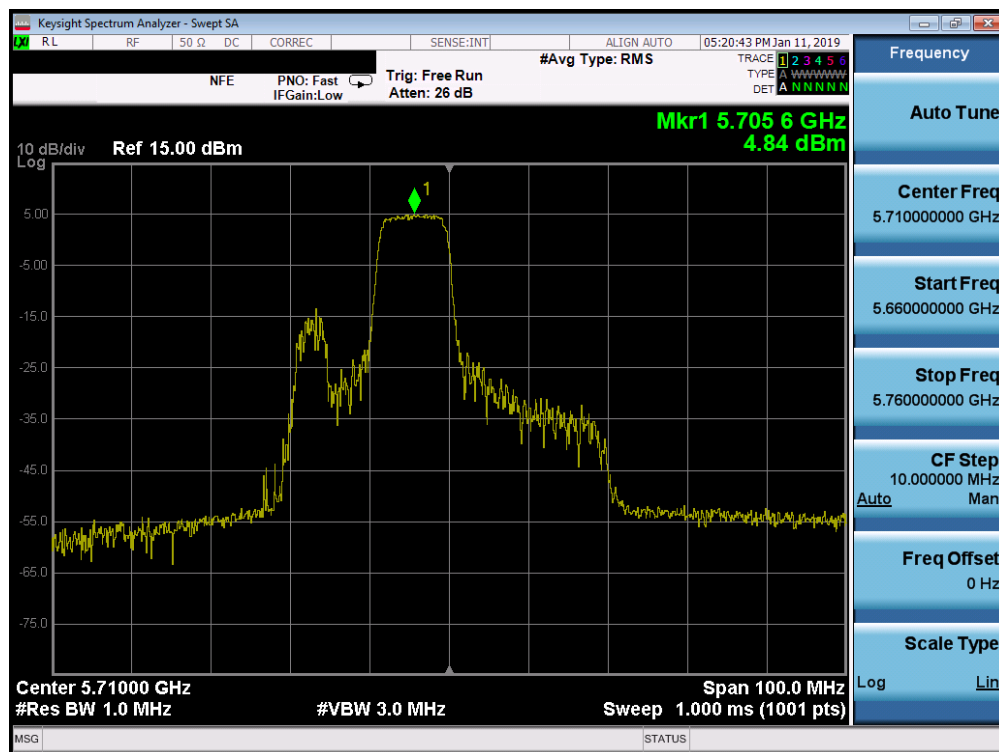


Plot 7-178. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 106 Tones (UNII Band 2C) – Ch. 102)

| | | | | | |
|---|---------------------------------------|-------------------------------|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSC03L | | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | Page 144 of 514 | | |

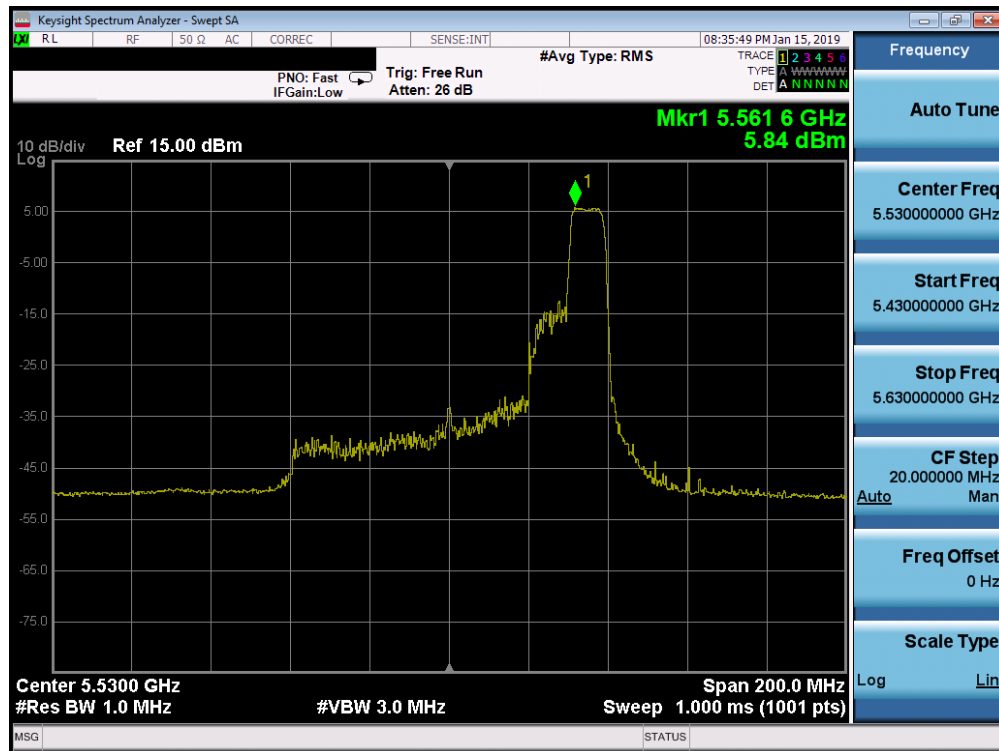


Plot 7-179. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 106 Tones (UNII Band 2C) – Ch. 118)

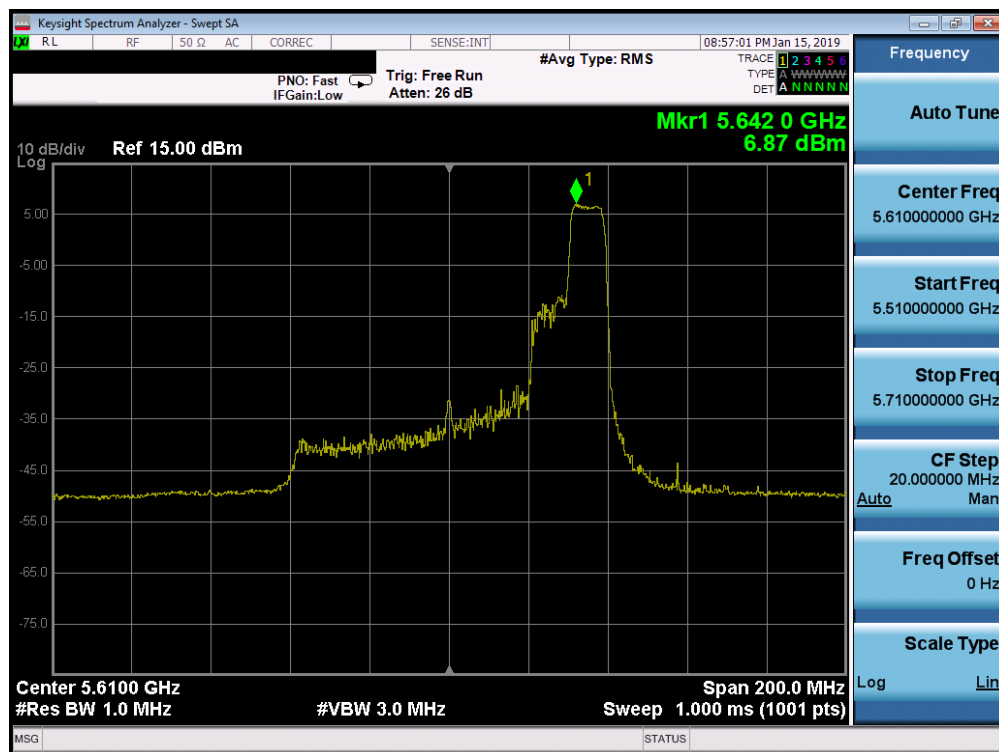


Plot 7-180. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 106 Tones (UNII Band 2C) – Ch. 142)

| | | | | | |
|---|---------------------------------------|-------------------------------|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSC03L | | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | Page 145 of 514 | | |

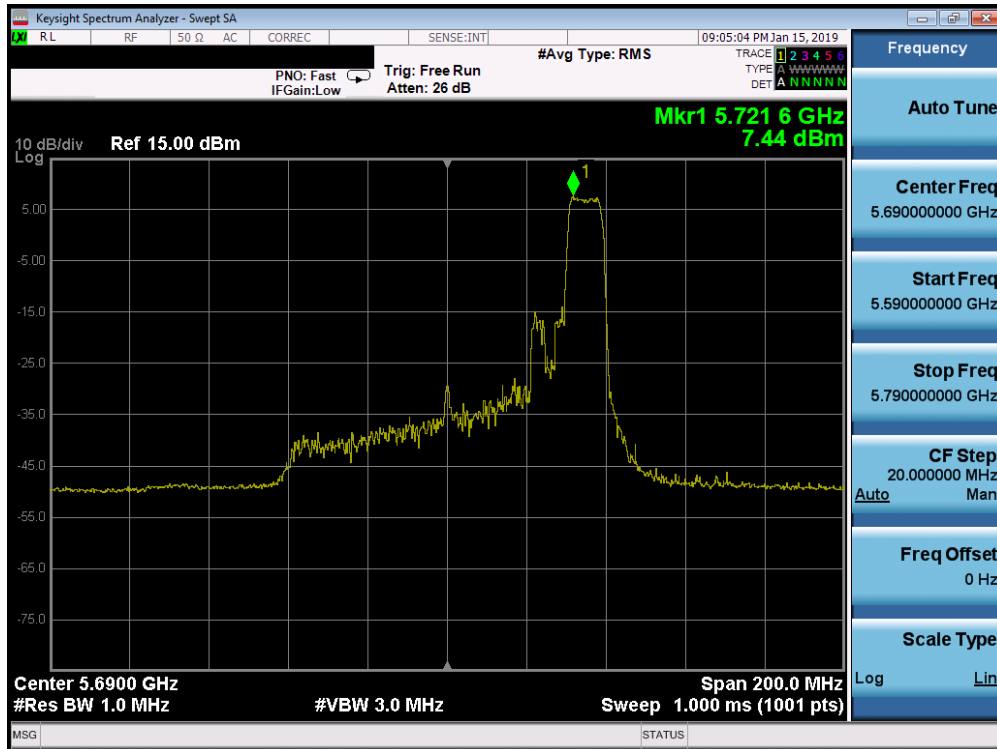


Plot 7-181. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 106 Tones (UNII Band 2C) – Ch. 106)

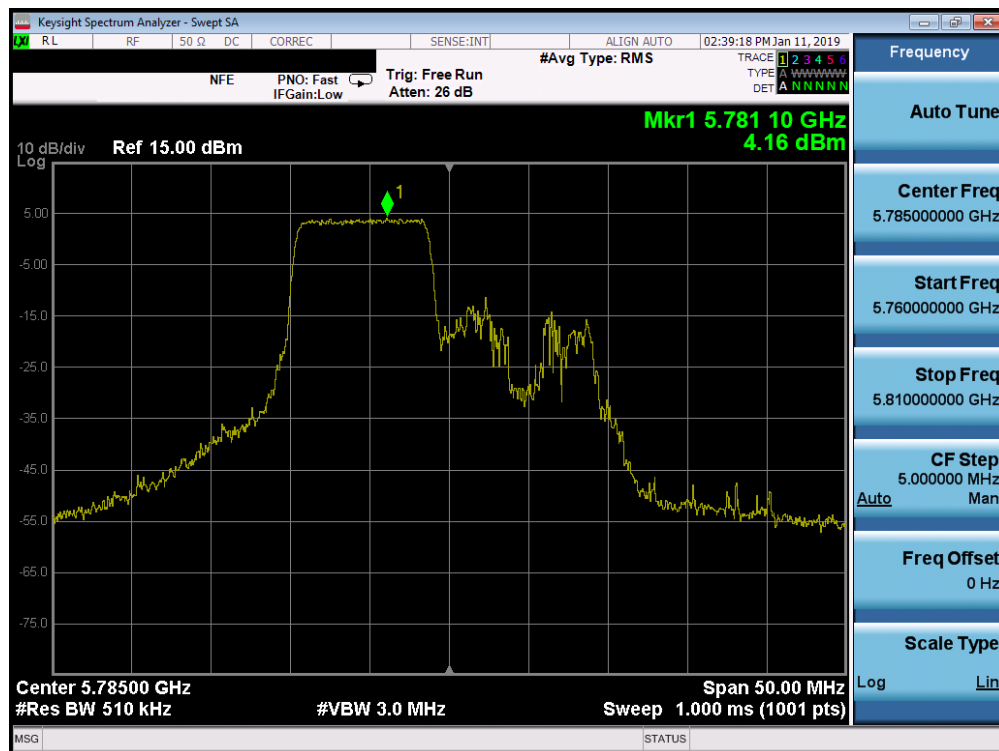


Plot 7-182. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 106 Tones (UNII Band 2C) – Ch. 122)

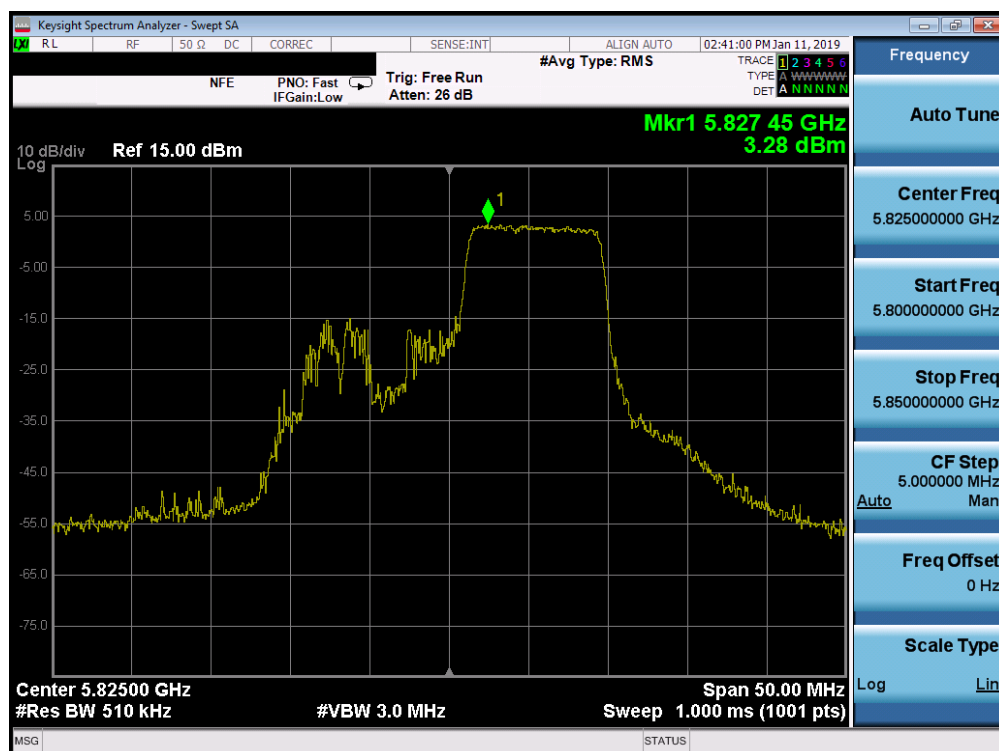
| | | | | | |
|---|---|-------------------------------|---------------------------------------|---|---------------------------------|
| FCC ID: A3LSC03L |  | | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | | | Page 146 of 514 |



| Frequency [MHz] | Channel No. | 802.11 Mode | Tones | Data Rate [Mbps] | Measured Power Density [dBm] | Max Permissible Power Density [dBm/500kHz] | Margin [dB] |
|-----------------|-------------|-------------|-------|------------------|------------------------------|--|-------------|
| 5745 | 149 | ax (20MHz) | 106T | MCS0 | 3.86 | 30.00 | -26.14 |
| 5785 | 157 | ax (20MHz) | 106T | MCS0 | 4.16 | 30.00 | -25.84 |
| 5825 | 165 | ax (20MHz) | 106T | MCS0 | 3.28 | 30.00 | -26.72 |
| 5755 | 151 | ax (40MHz) | 106T | MCS0 | 2.74 | 30.00 | -27.26 |
| 5795 | 159 | ax (40MHz) | 106T | MCS0 | 3.33 | 30.00 | -26.67 |
| 5775 | 155 | ax (80MHz) | 106T | MCS0 | 7.21 | 30.00 | -22.79 |

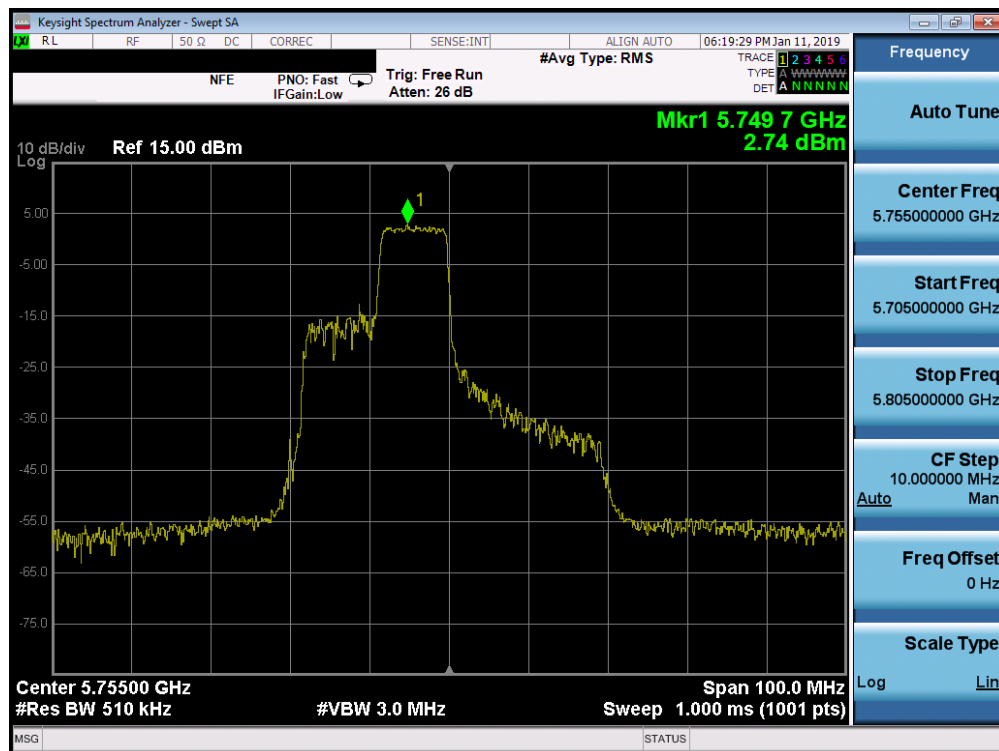


Plot 7-185. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 106 Tones (UNII Band 3) – Ch. 157)

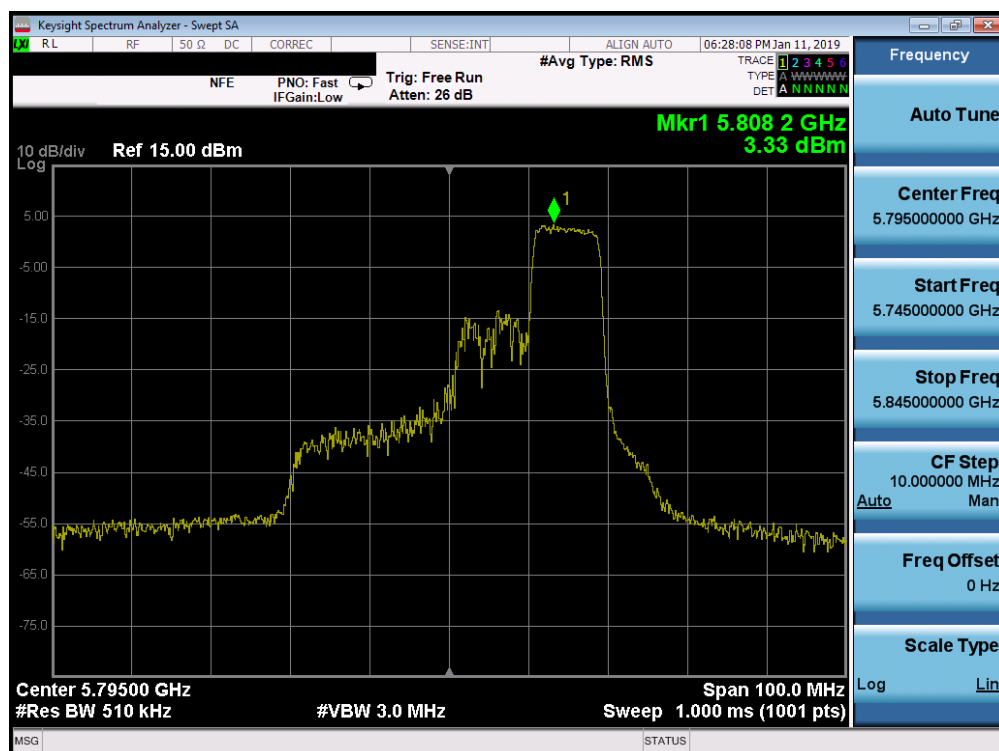


Plot 7-186. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 106 Tones (UNII Band 3) – Ch. 165)

| | | | | |
|---|---|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSC03L | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | | Page 149 of 514 |

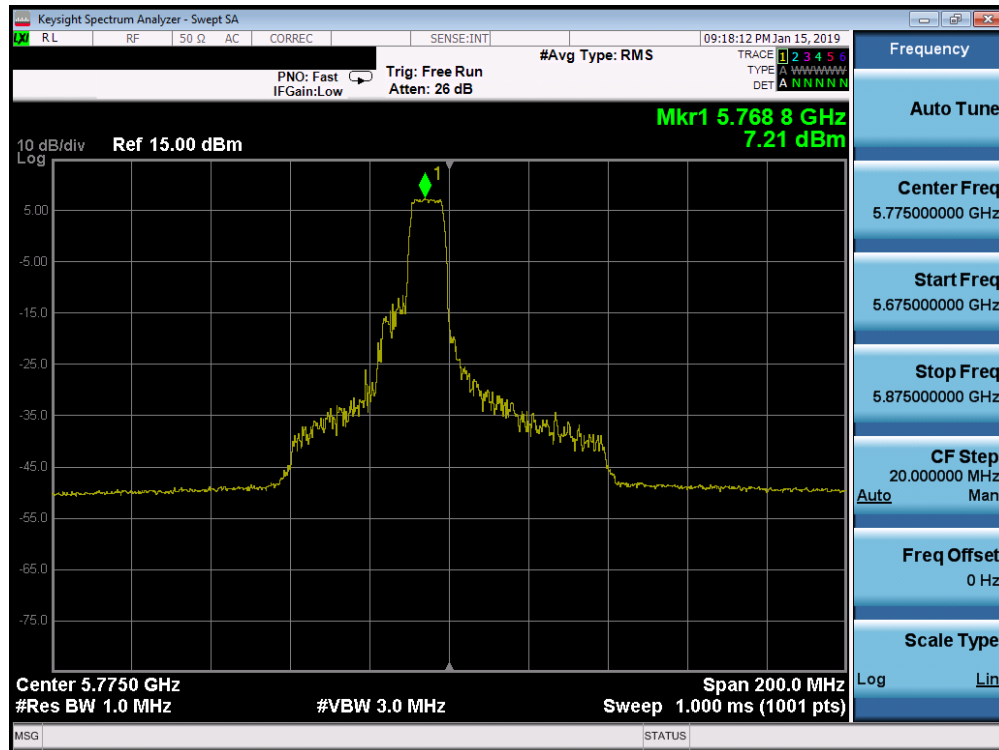


Plot 7-187. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 106 Tones (UNII Band 3) – Ch. 151)



Plot 7-188. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 106 Tones (UNII Band 3) – Ch. 159)

| | | | | | |
|---|---------------------------------------|-------------------------------|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSC03L | | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | Page 150 of 514 | | |



Plot 7-189. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 106 Tones (UNII Band 3) – Ch. 155)

| | | | |
|---|---|-------------------------------|---------------------------------|
| FCC ID: A3LSC03L | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | Page 151 of 514 |

SISO Antenna-1 Power Spectral Density Measurements (242 Tones)

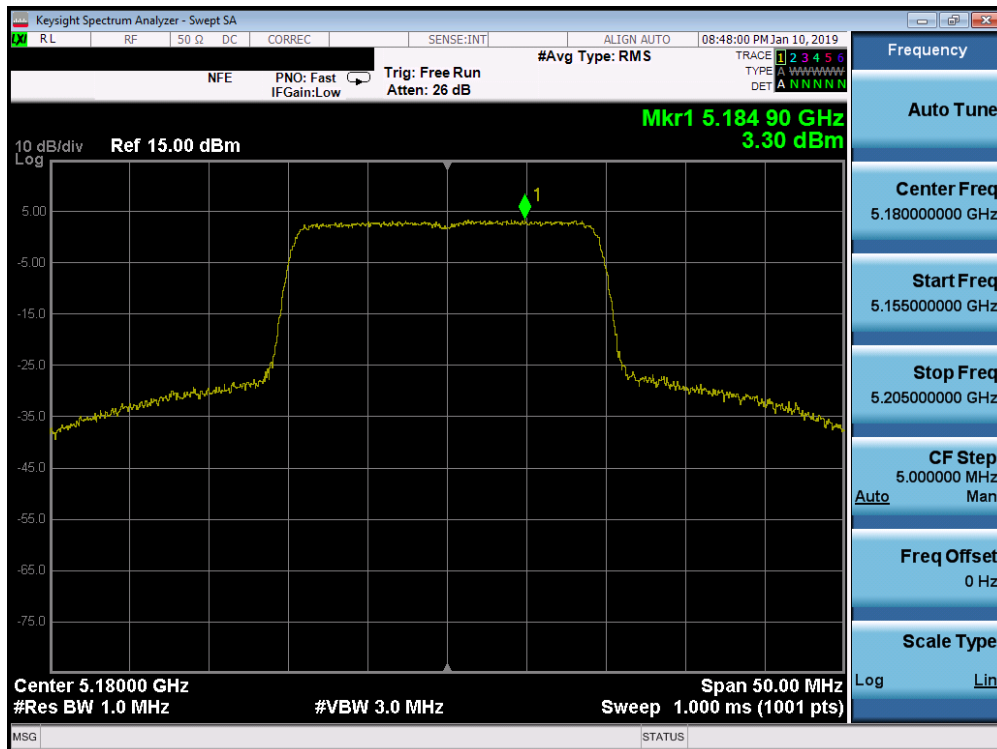
| | Frequency [MHz] | Channel No. | 802.11 Mode | Tones | Data Rate [Mbps] | Measured Power Density [dBm] | Max Power Density [dBm/MHz] | Margin [dB] |
|---------|-----------------|-------------|-------------|-------|------------------|------------------------------|-----------------------------|-------------|
| Band 1 | 5180 | 36 | ax (20MHz) | 242T | MCS0 | 3.30 | 11.00 | -7.70 |
| | 5200 | 40 | ax (20MHz) | 242T | MCS0 | 6.19 | 11.00 | -4.81 |
| | 5240 | 48 | ax (20MHz) | 242T | MCS0 | 7.55 | 11.00 | -3.45 |
| | 5190 | 38 | ax (40MHz) | 242T | MCS0 | 0.89 | 11.00 | -10.11 |
| | 5230 | 46 | ax (40MHz) | 242T | MCS0 | 5.37 | 11.00 | -5.63 |
| | 5210 | 42 | ax (80MHz) | 242T | MCS0 | -0.57 | 11.00 | -11.57 |
| Band 2A | 5260 | 52 | ax (20MHz) | 242T | MCS0 | 7.56 | 11.00 | -3.44 |
| | 5280 | 56 | ax (20MHz) | 242T | MCS0 | 8.05 | 11.00 | -2.95 |
| | 5320 | 64 | ax (20MHz) | 242T | MCS0 | 5.00 | 11.00 | -6.00 |
| | 5270 | 54 | ax (40MHz) | 242T | MCS0 | 5.39 | 11.00 | -5.61 |
| | 5310 | 62 | ax (40MHz) | 242T | MCS0 | 0.39 | 11.00 | -10.61 |
| | 5290 | 58 | ax (80MHz) | 242T | MCS0 | -0.54 | 11.00 | -11.54 |
| Band 2C | 5500 | 100 | ax (20MHz) | 242T | MCS0 | 7.93 | 11.00 | -3.07 |
| | 5600 | 120 | ax (20MHz) | 242T | MCS0 | 6.54 | 11.00 | -4.46 |
| | 5720 | 144 | ax (20MHz) | 242T | MCS0 | 6.66 | 11.00 | -4.34 |
| | 5510 | 102 | ax (40MHz) | 242T | MCS0 | 0.11 | 11.00 | -10.89 |
| | 5590 | 118 | ax (40MHz) | 242T | MCS0 | 4.24 | 11.00 | -6.76 |
| | 5710 | 142 | ax (40MHz) | 242T | MCS0 | 4.61 | 11.00 | -6.39 |
| | 5530 | 106 | ax (80MHz) | 242T | MCS0 | 0.64 | 11.00 | -10.36 |
| | 5610 | 122 | ax (80MHz) | 242T | MCS0 | 6.19 | 11.00 | -4.81 |
| | 5690 | 138 | ax (80MHz) | 242T | MCS0 | 6.44 | 11.00 | -4.56 |

Table 7-72. Bands 1, 2A, 2C Conducted Power Spectral Density Measurements SISO ANT1 (242 Tones)

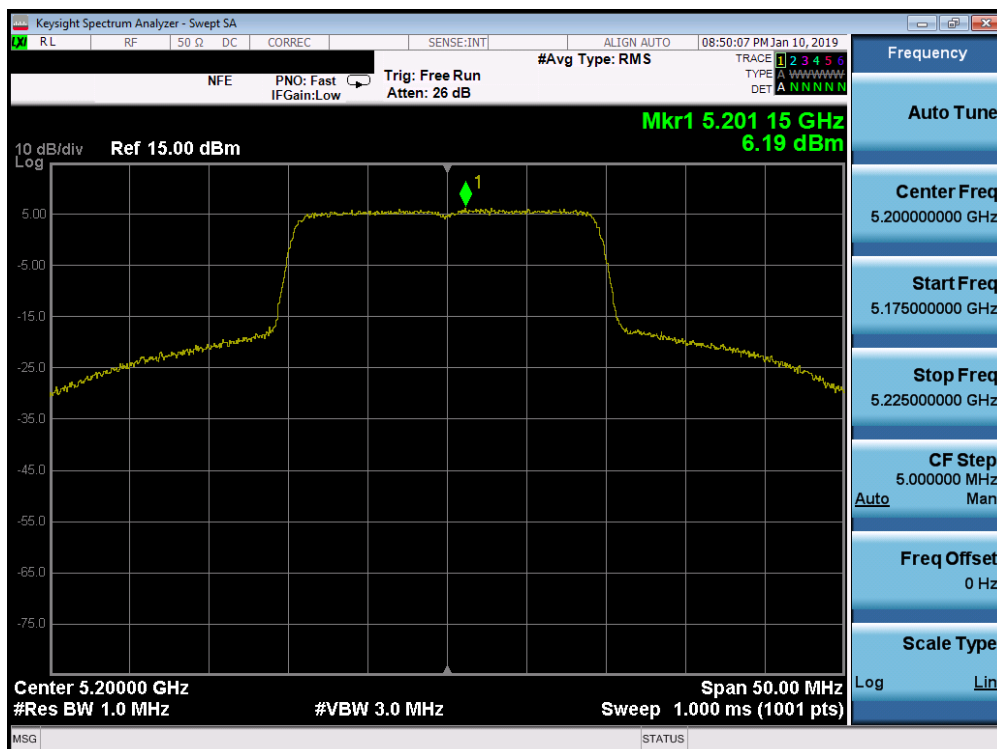
| | Frequency [MHz] | Channel No. | 802.11 Mode | Tones | Data Rate [Mbps] | Measured Power Density [dBm] | Antenna Gain [dBi] | e.i.r.p. Power Density [dBm/MHz] | ISED Max e.i.r.p. Power Density [dBm/MHz] | Margin [dB] |
|--------|-----------------|-------------|-------------|-------|------------------|------------------------------|--------------------|----------------------------------|---|-------------|
| Band 1 | 5180 | 36 | ax (20MHz) | 242T | MCS0 | 3.30 | -7.94 | -4.64 | 10.0 | -14.64 |
| | 5200 | 40 | ax (20MHz) | 242T | MCS0 | 6.19 | -7.51 | -1.32 | 10.0 | -11.32 |
| | 5240 | 48 | ax (20MHz) | 242T | MCS0 | 7.55 | -7.44 | 0.11 | 10.0 | -9.89 |
| | 5190 | 38 | ax (40MHz) | 242T | MCS0 | 0.89 | -7.94 | -7.05 | 10.0 | -17.05 |
| | 5230 | 46 | ax (40MHz) | 242T | MCS0 | 5.37 | -7.44 | -2.07 | 10.0 | -12.07 |
| | 5210 | 42 | ax (80MHz) | 242T | MCS0 | -0.57 | -7.94 | -8.51 | 10.0 | -18.51 |

Table 7-73. Bands 1 e.i.r.p Conducted Power Spectral Density Measurements (ISED 242 Tones)

| | | | |
|---|---|-------------------------------|---------------------------------|
| FCC ID: A3LSC03L |  MEASUREMENT REPORT (CERTIFICATION)  | | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | Page 152 of 514 |

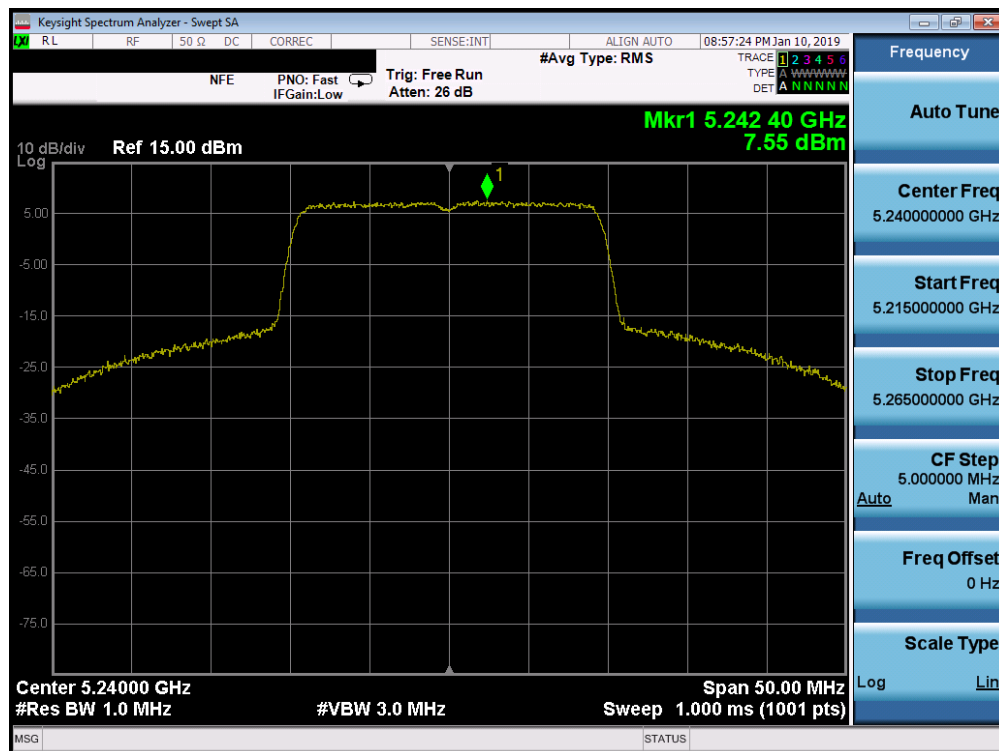


Plot 7-190. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 1) – Ch. 36)

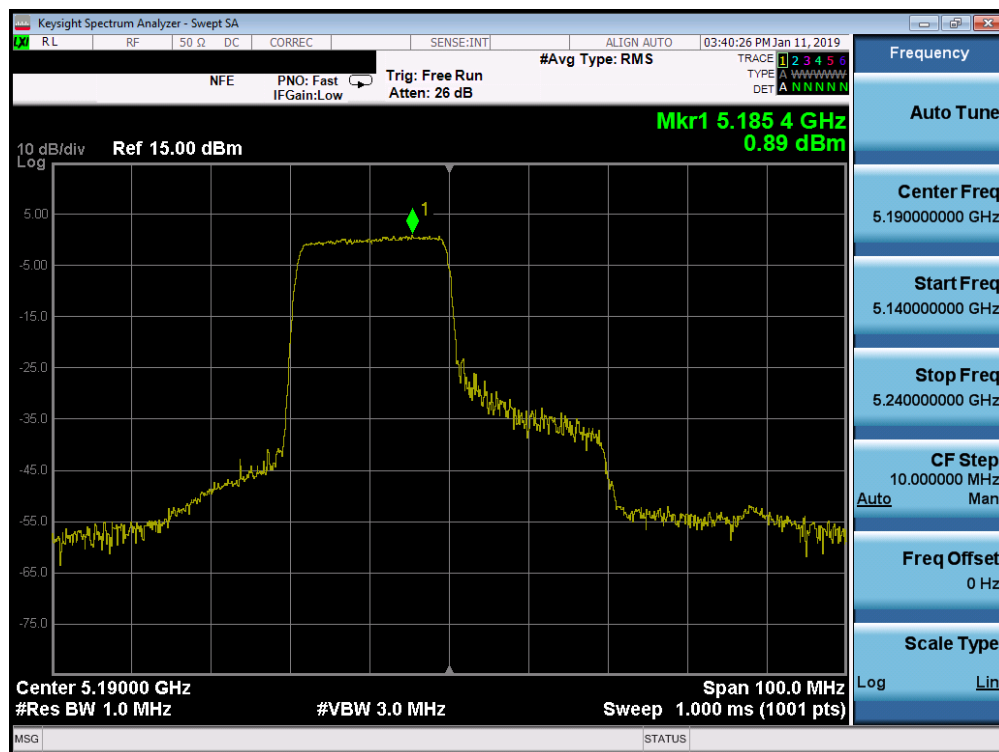


Plot 7-191. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 1) – Ch. 40)

| | | | |
|--|---|--------------------------------------|--|
| FCC ID: A3LSC03L |  MEASUREMENT REPORT (CERTIFICATION)  | | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | Page 153 of 514 |

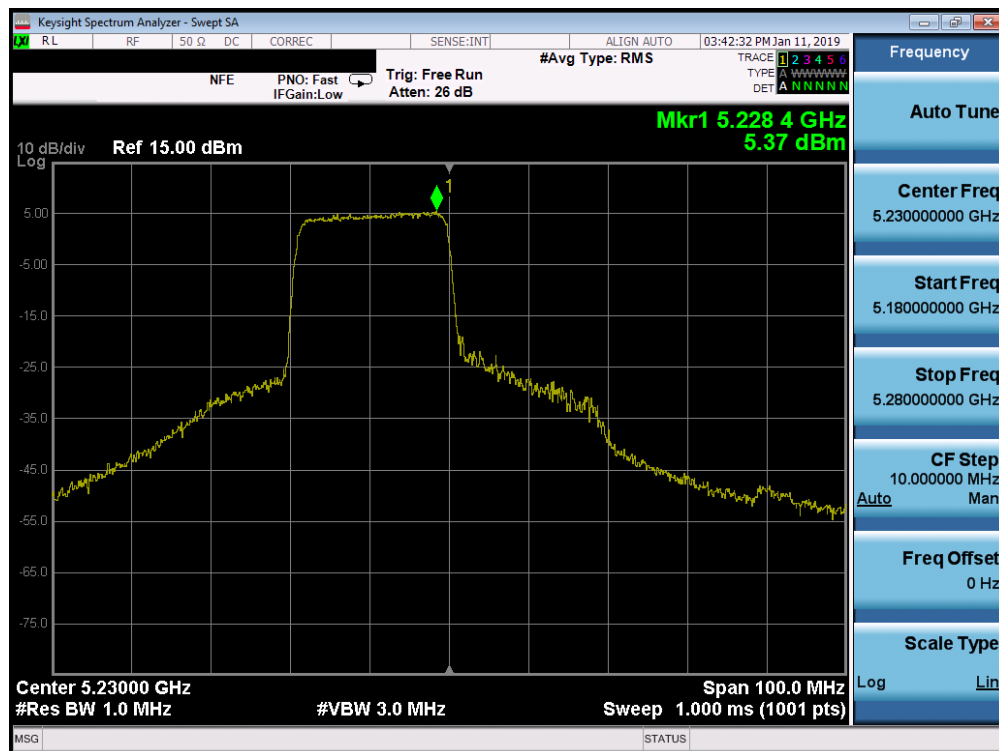


Plot 7-192. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 1) – Ch. 48)

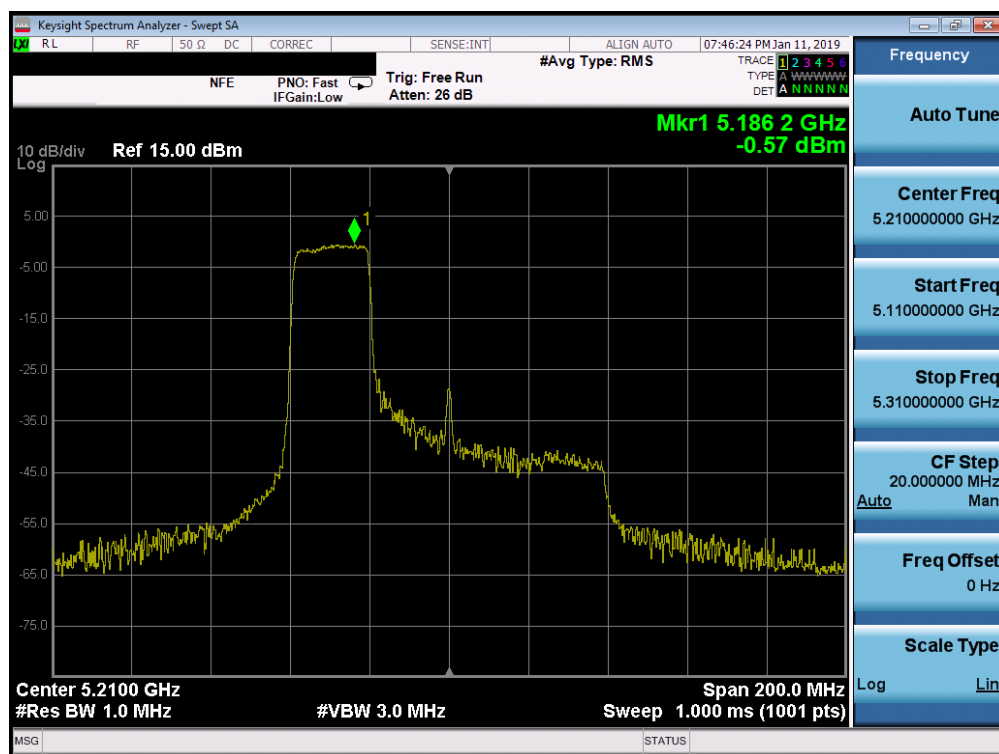


Plot 7-193. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 242 Tones (UNII Band 1) – Ch. 38)

| | | | | | |
|---|---------------------------------------|-------------------------------|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSC03L | | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | Page 154 of 514 | | |

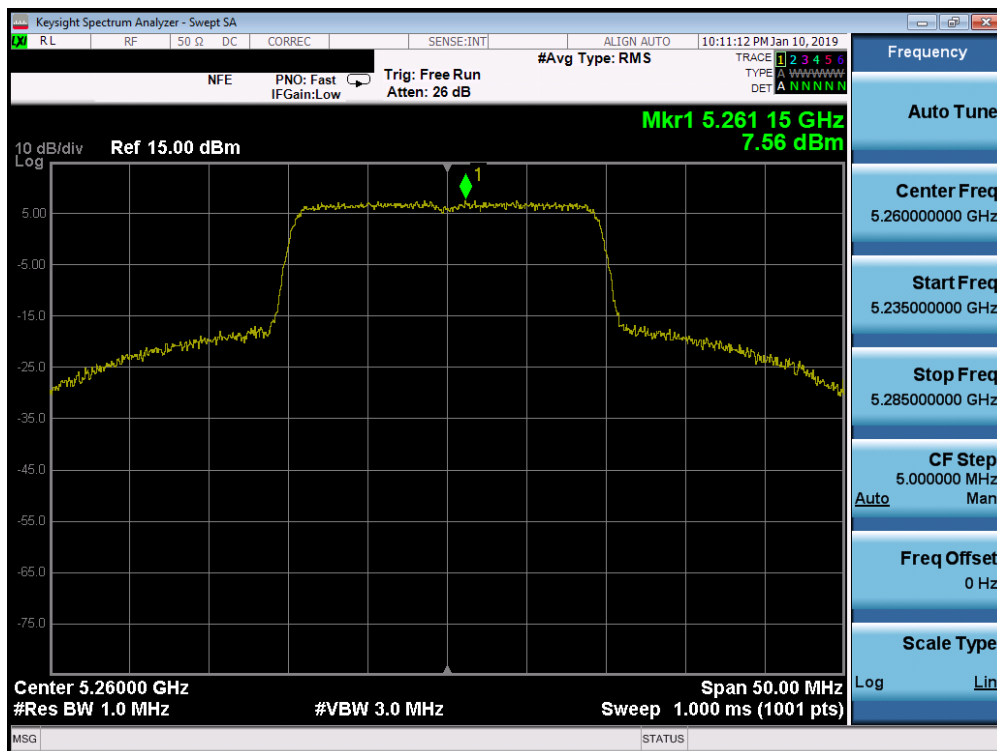


Plot 7-194. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 242 Tones (UNII Band 1) – Ch. 46)

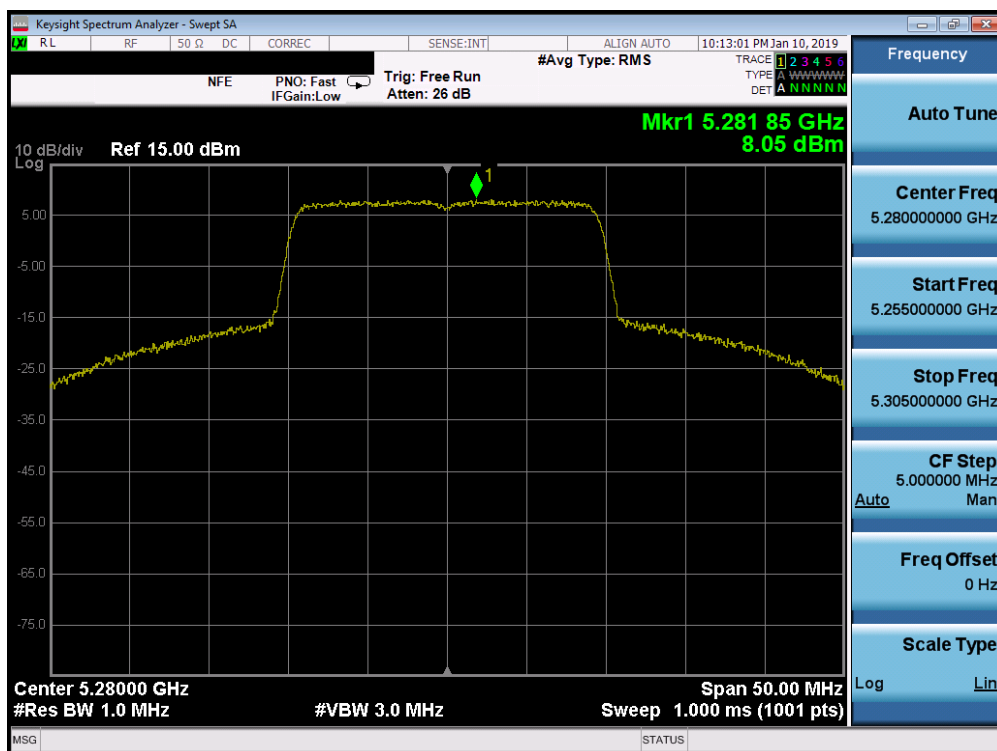


Plot 7-195. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 242 Tones (UNII Band 1) – Ch. 42)

| | | | | | |
|---|---------------------------------------|-------------------------------|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSC03L | | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | Page 155 of 514 | | |

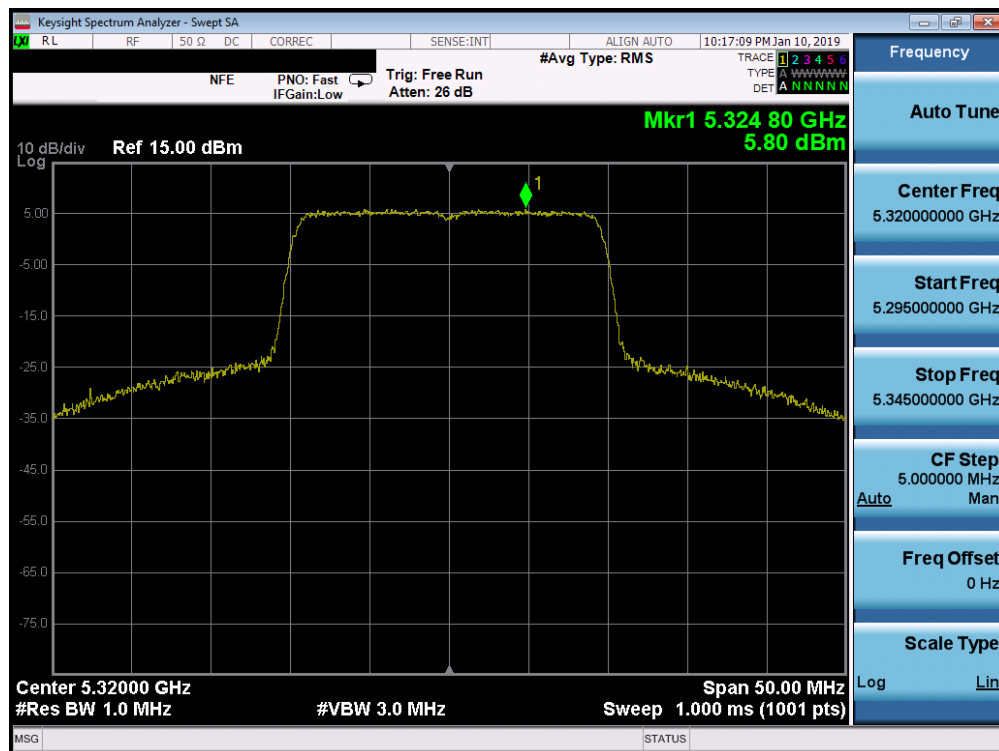


Plot 7-196. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 2A) – Ch. 52)

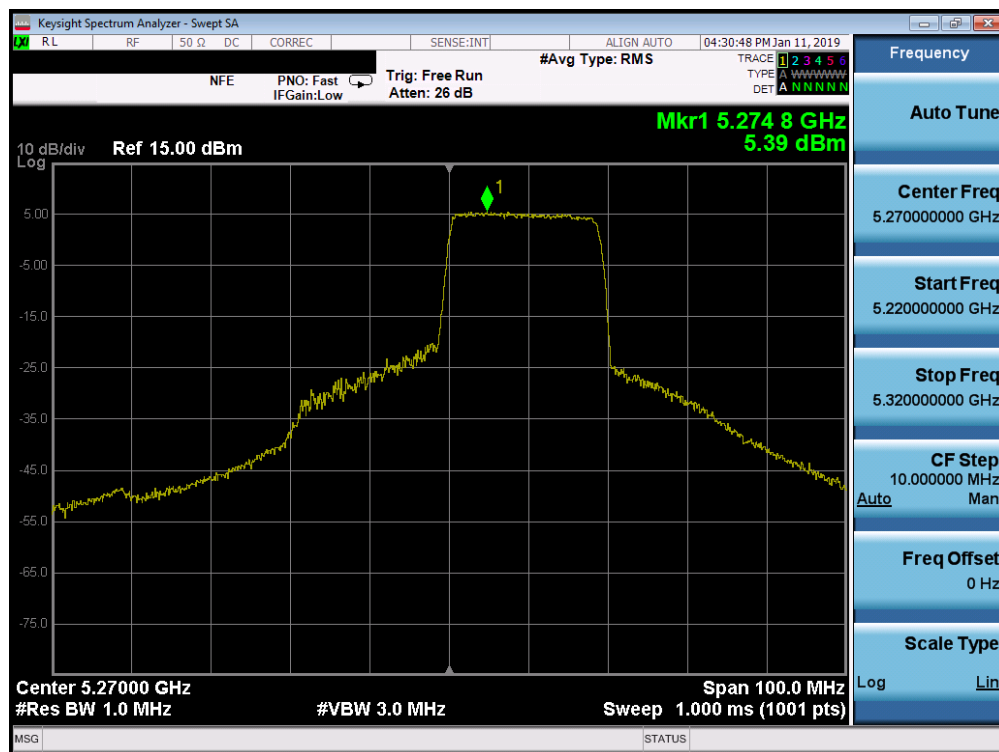


Plot 7-197. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 2A) – Ch. 56)

| | | | | | |
|---|---------------------------------------|-------------------------------|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSC03L | | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | Page 156 of 514 | | |

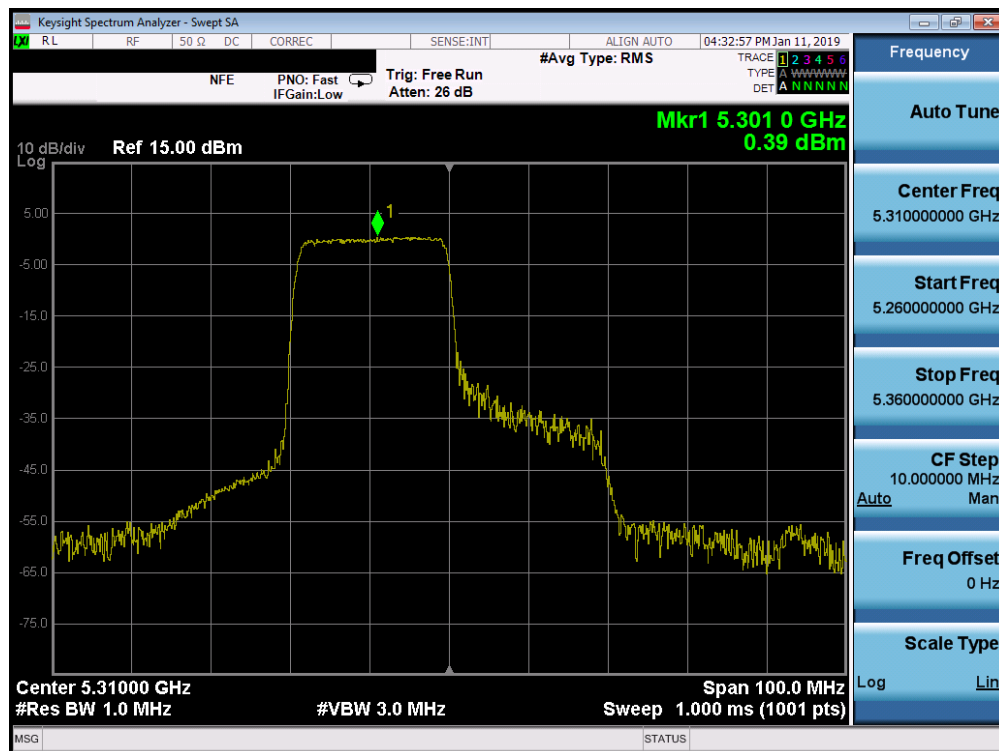


Plot 7-198. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 2A) – Ch. 64)

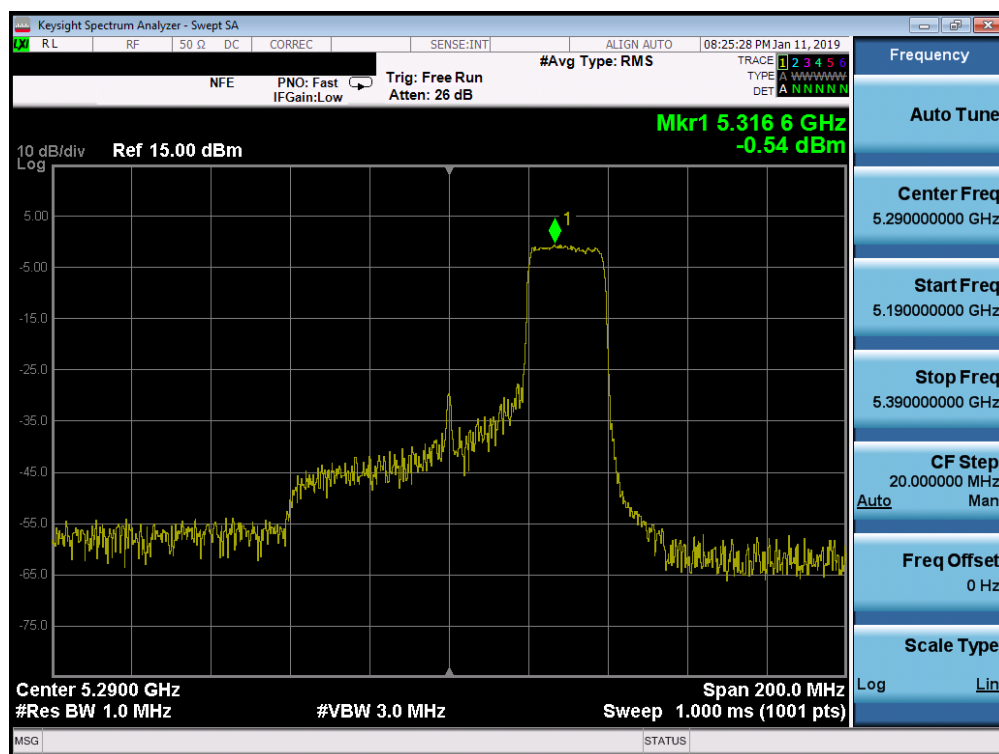


Plot 7-199. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 242 Tones (UNII Band 2A) – Ch. 54)

| | | | | | |
|---|---------------------------------------|-------------------------------|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSC03L | | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | Page 157 of 514 | | |

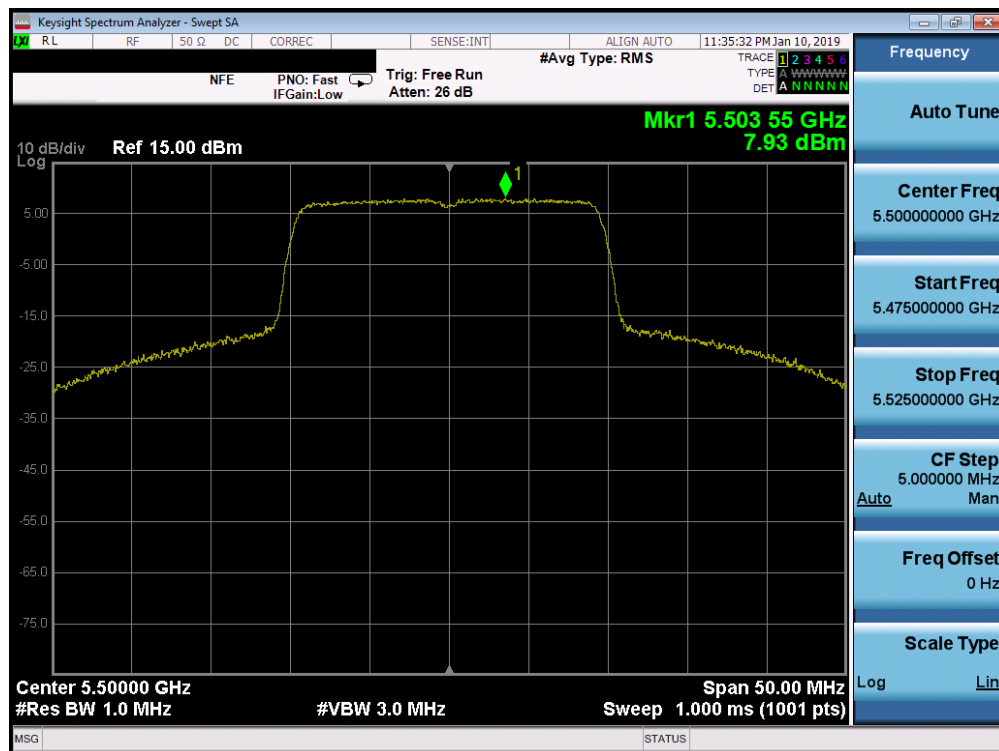


Plot 7-200. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 242 Tones (UNII Band 2A) – Ch. 62)

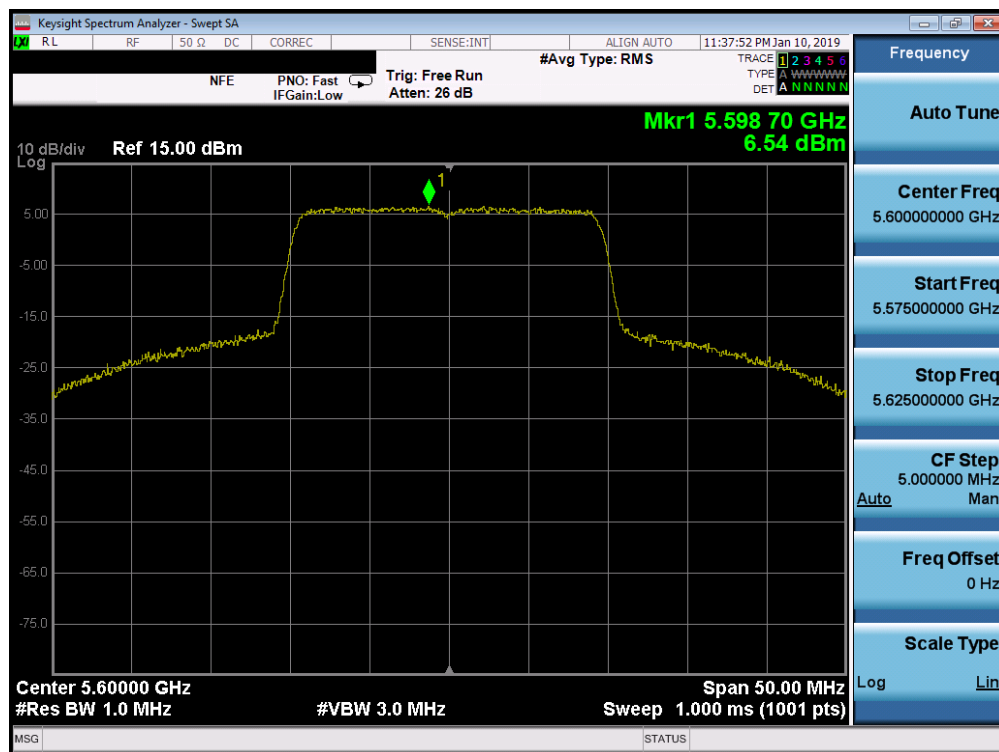


Plot 7-201. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 242 Tones (UNII Band 2A) – Ch. 58)

| | | | | | |
|---|---------------------------------------|-------------------------------|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSC03L | | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | Page 158 of 514 | | |

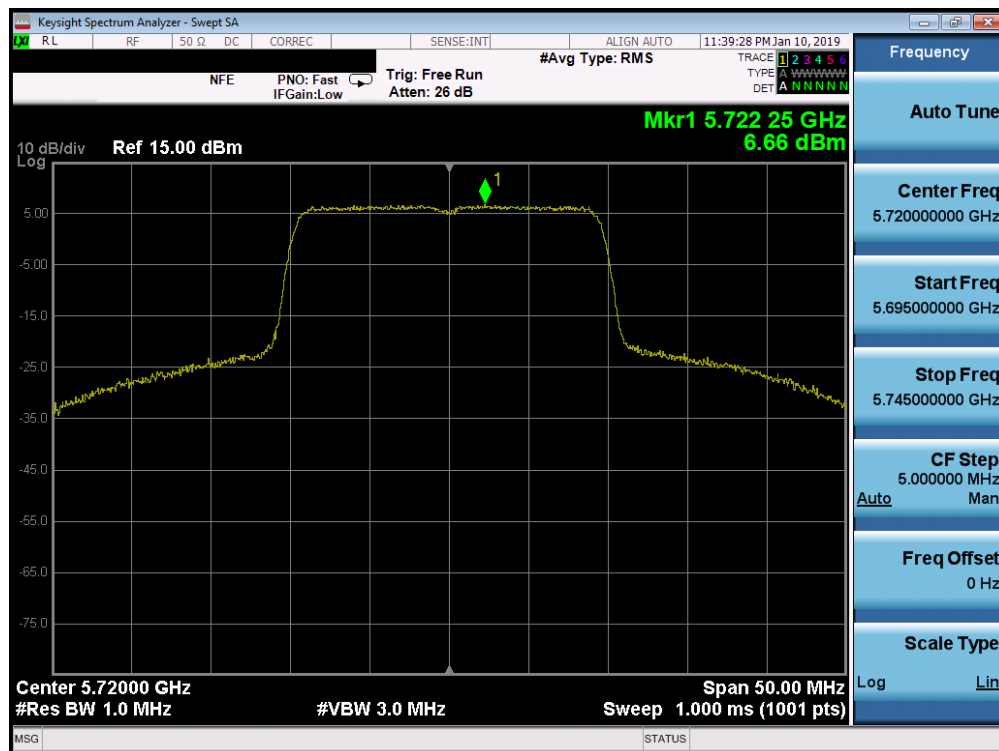


Plot 7-202. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 2C) – Ch. 100)

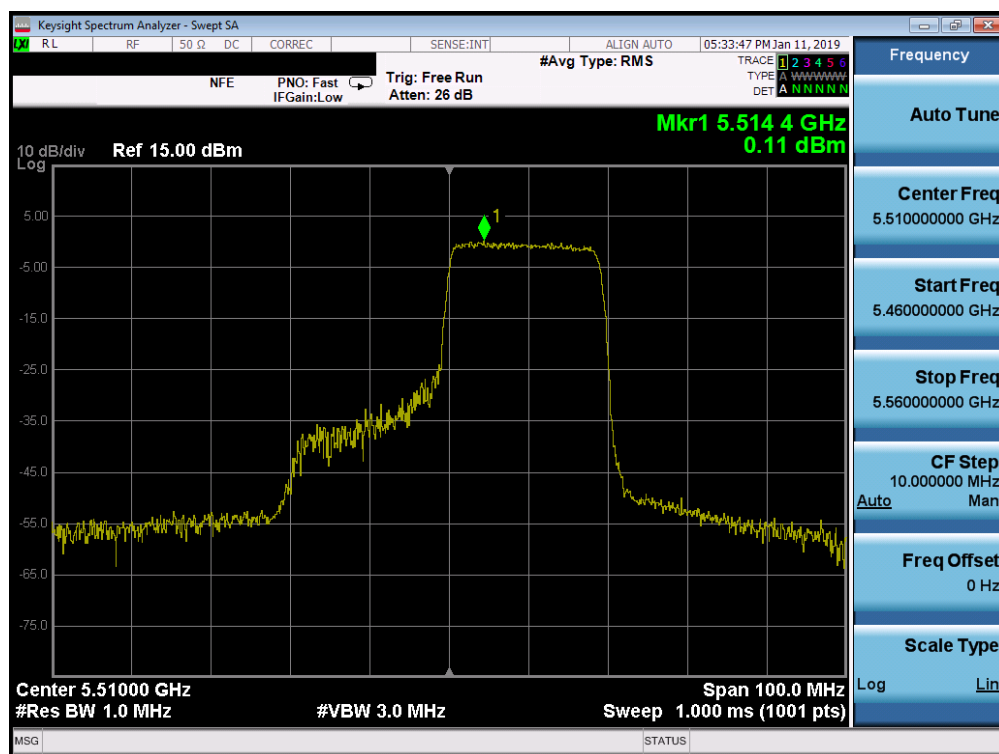


Plot 7-203. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 2C) – Ch. 120)

| | | | | |
|---|---|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSC03L | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | | Page 159 of 514 |

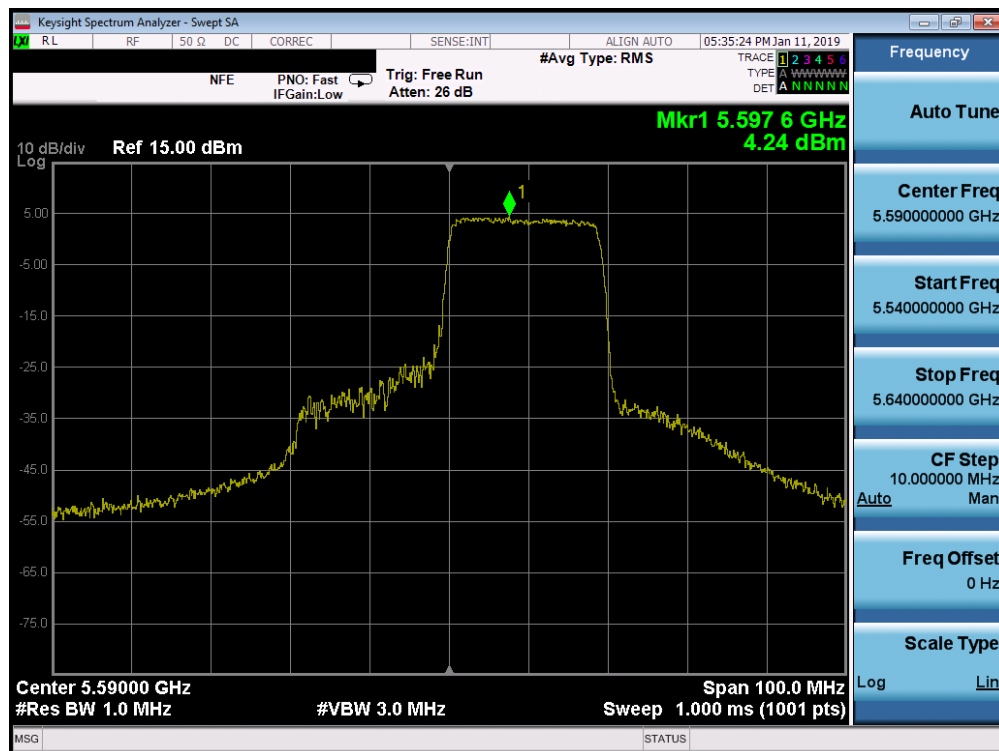


Plot 7-204. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 2C) – Ch. 144)

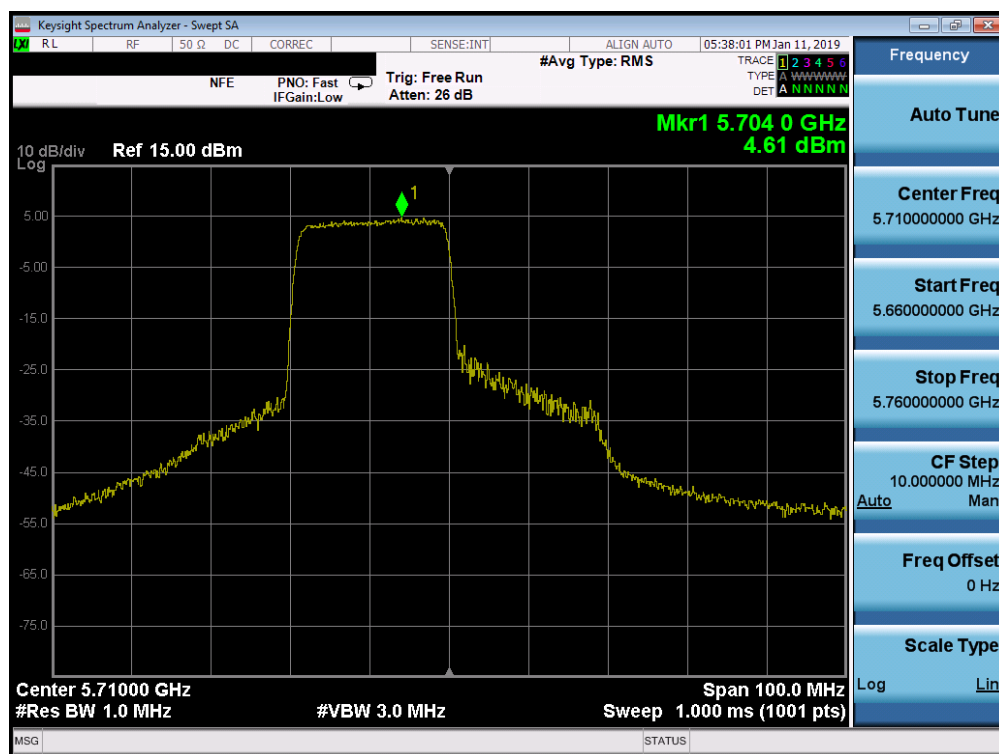


Plot 7-205. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 242 Tones (UNII Band 2C) – Ch. 102)

| | | | | |
|---|---|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSC03L | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | | Page 160 of 514 |

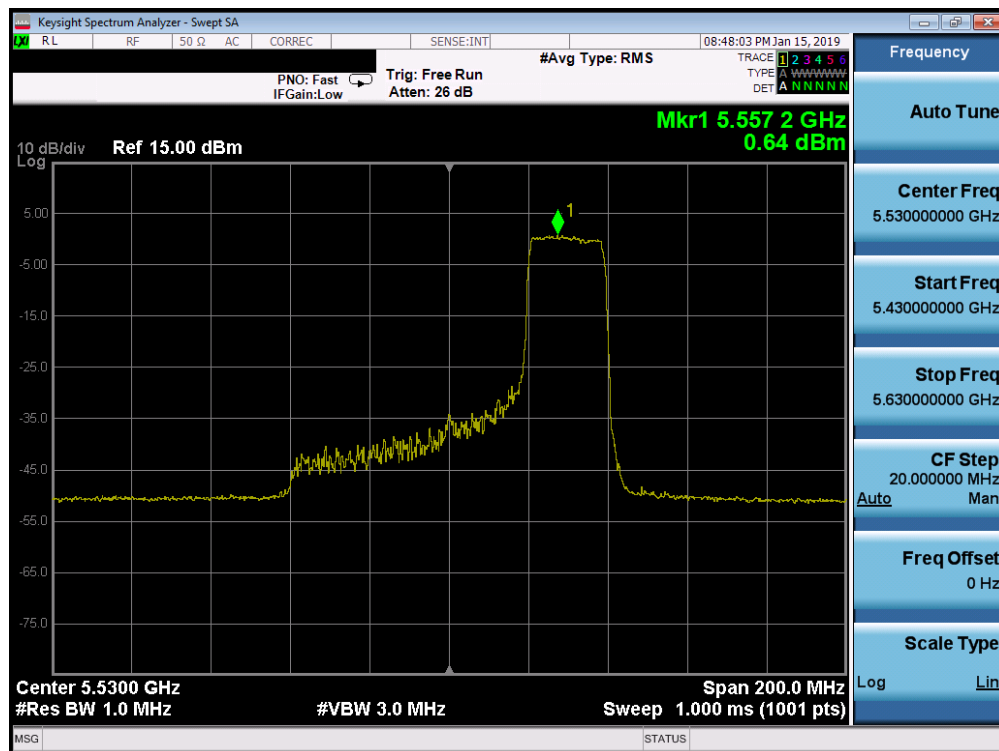


Plot 7-206. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 242 Tones (UNII Band 2C) – Ch. 118)



Plot 7-207. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 242 Tones (UNII Band 2C) – Ch. 142)

| | | | | | |
|---|---------------------------------------|-------------------------------|---------------------------------------|-----------------|---------------------------------|
| FCC ID: A3LSC03L | | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | | Page 161 of 514 | |

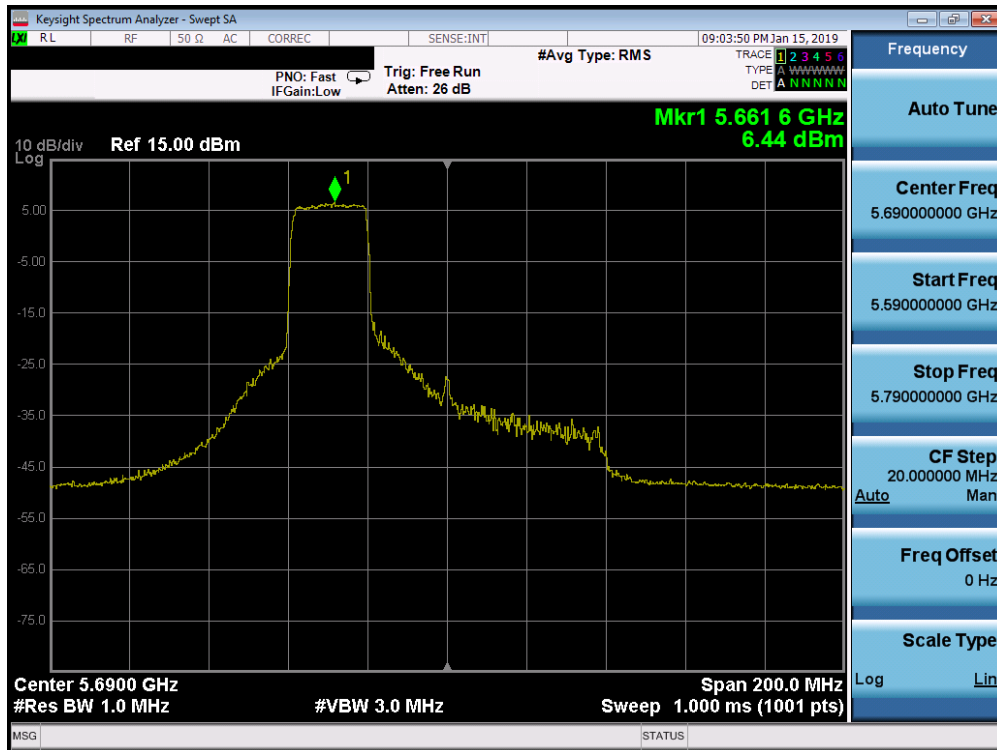


Plot 7-208. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 242 Tones (UNII Band 2C) – Ch. 106)



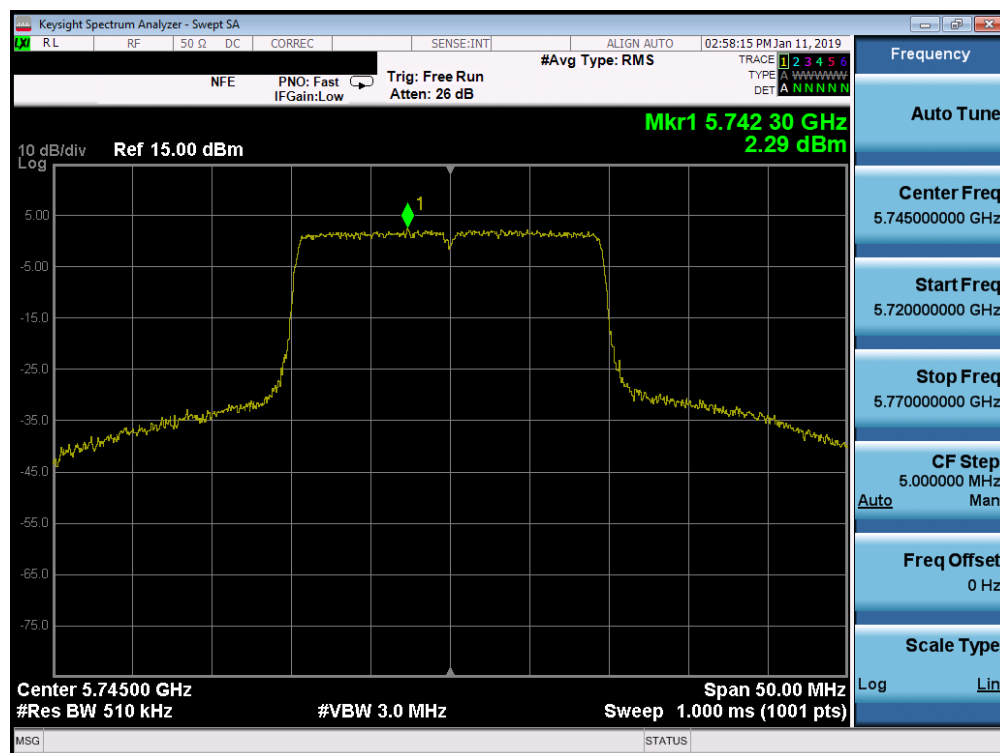
Plot 7-209. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 242 Tones (UNII Band 2C) – Ch. 122)

| | | | | |
|---|---|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSC03L | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | | Page 162 of 514 |



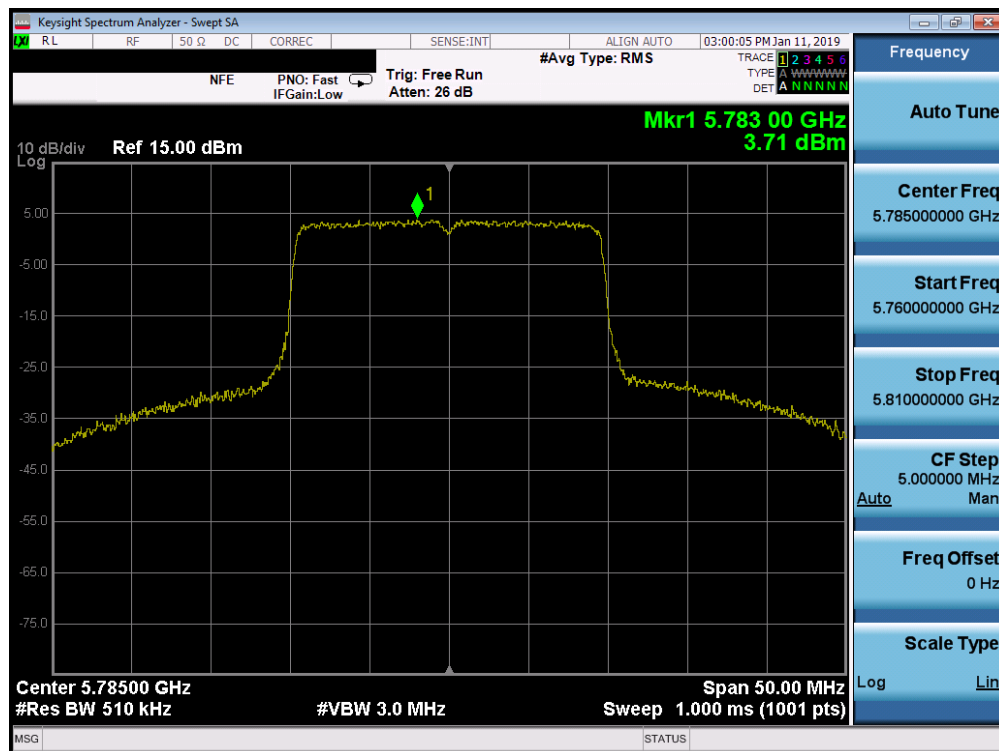
| | Frequency [MHz] | Channel No. | 802.11 Mode | Tones | Data Rate [Mbps] | Measured Power Density [dBm] | Max Permissible Power Density [dBm/500kHz] | Margin [dB] |
|---------------|-----------------|-------------|-------------|-------|------------------|------------------------------|--|-------------|
| Band 3 | 5745 | 149 | ax (20MHz) | 242T | MCS0 | 2.29 | 30.00 | -27.71 |
| | 5785 | 157 | ax (20MHz) | 242T | MCS0 | 3.71 | 30.00 | -26.29 |
| | 5825 | 165 | ax (20MHz) | 242T | MCS0 | 2.37 | 30.00 | -27.63 |
| | 5755 | 151 | ax (40MHz) | 242T | MCS0 | 2.33 | 30.00 | -27.67 |
| | 5795 | 159 | ax (40MHz) | 242T | MCS0 | 2.89 | 30.00 | -27.11 |
| | 5775 | 155 | ax (80MHz) | 242T | MCS0 | 7.25 | 30.00 | -22.75 |

Table 7-74. Band 3 Conducted Power Spectral Density Measurements SISO ANT1 (242 Tones)

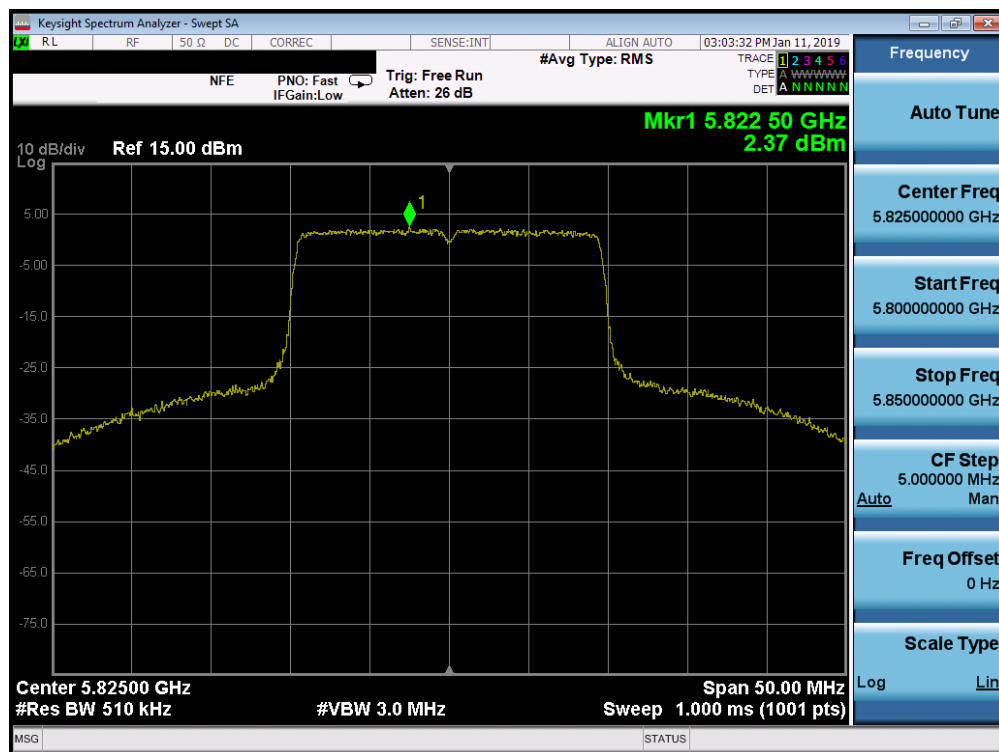


Plot 7-211. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 3) – Ch. 149)

| | | | | |
|---|---|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSC03L | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | | Page 164 of 514 |

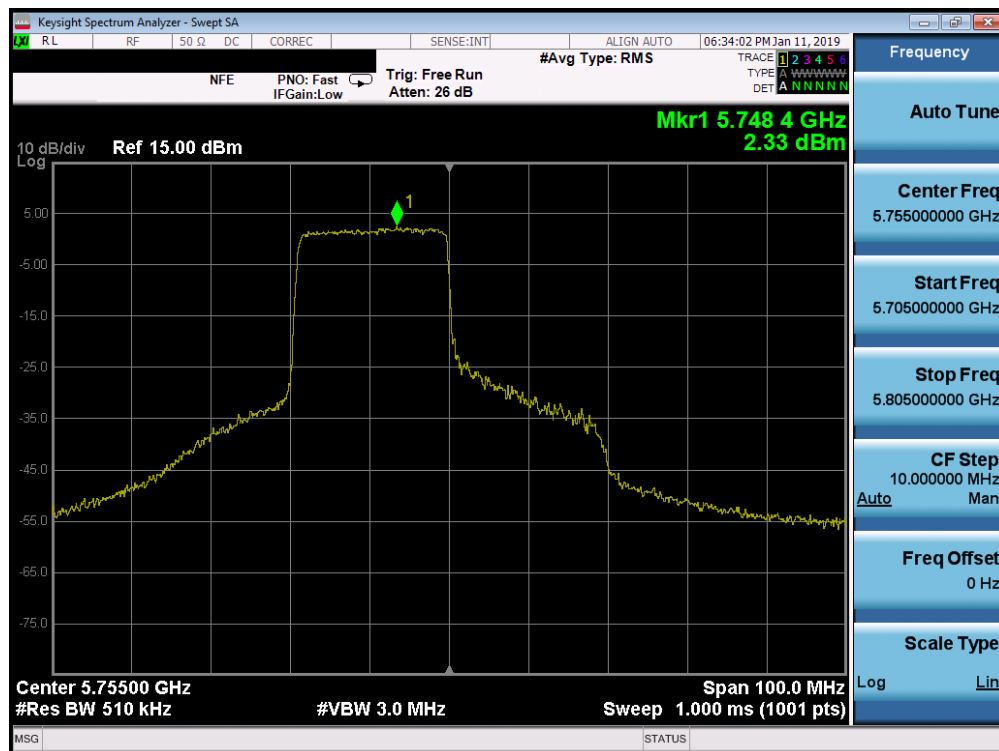


Plot 7-212. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 3) – Ch. 157)

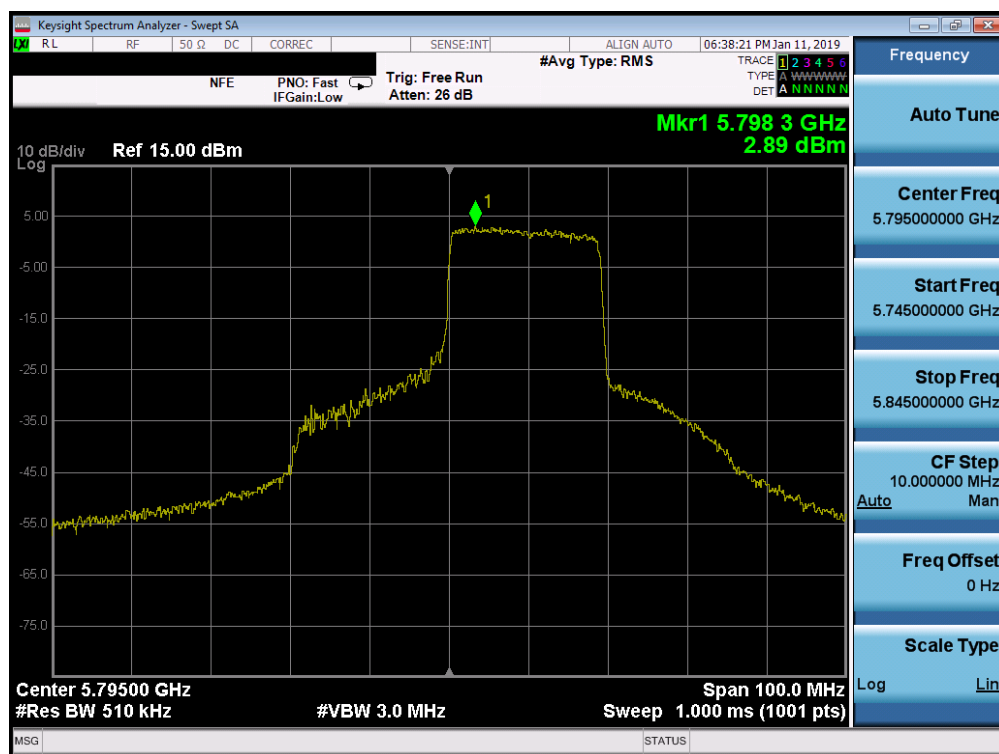


Plot 7-213. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 3) – Ch. 165)

| | | | | | |
|---|---------------------------------------|-------------------------------|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSC03L | | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | Page 165 of 514 | | |

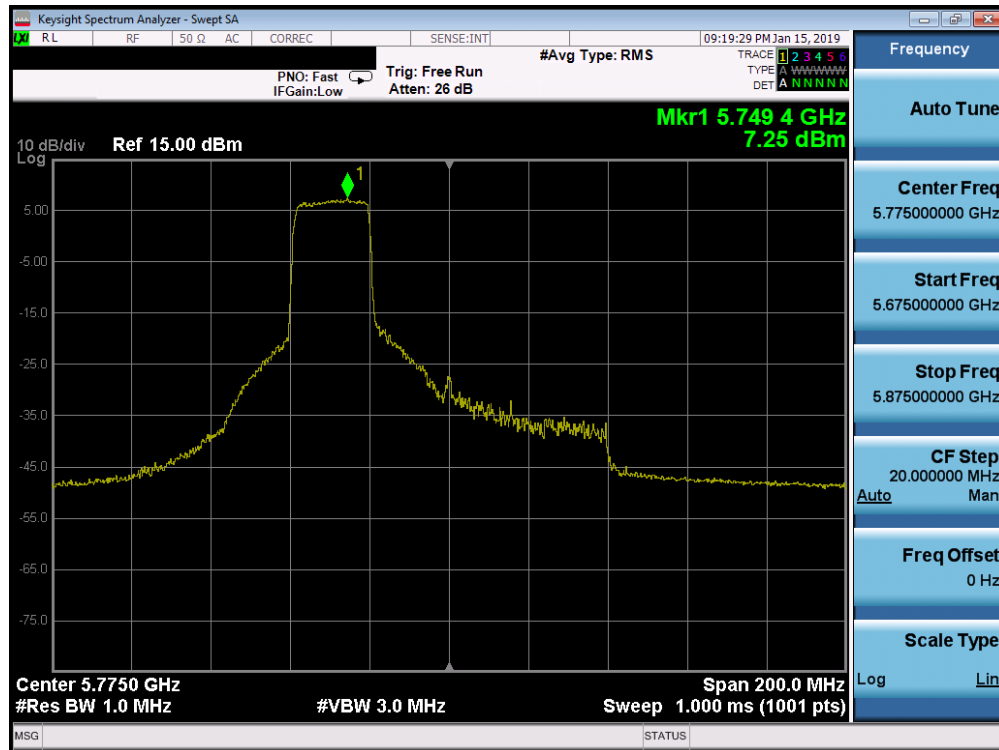


Plot 7-214. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 242 Tones (UNII Band 3) – Ch. 151)



Plot 7-215. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 242 Tones (UNII Band 3) – Ch. 159)

| | | | | | |
|---|---------------------------------------|-------------------------------|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSC03L | | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | Page 166 of 514 | | |



Plot 7-216. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 242 Tones (UNII Band 3) – Ch. 155)

| | | | | |
|---|---|---------------------------------------|---|---------------------------------|
| FCC ID: A3LSC03L |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | | Page 167 of 514 |

SISO Antenna-1 Power Spectral Density Measurements (484 Tones)

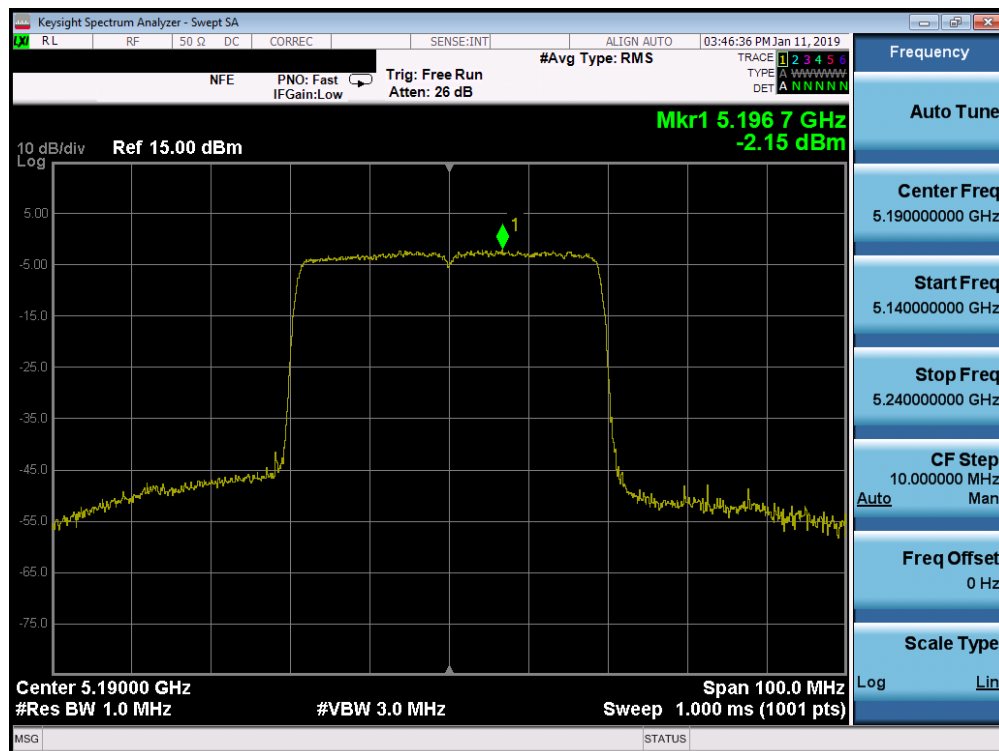
| | Frequency [MHz] | Channel No. | 802.11 Mode | Tones | Data Rate [Mbps] | Measured Power Density [dBm] | Max Power Density [dBm/MHz] | Margin [dB] |
|---------|-----------------|-------------|-------------|-------|------------------|------------------------------|-----------------------------|-------------|
| Band 1 | 5190 | 38 | ax (40MHz) | 484T | MCS0 | -2.15 | 11.00 | -13.15 |
| | 5230 | 46 | ax (40MHz) | 484T | MCS0 | 0.95 | 11.00 | -10.05 |
| | 5210 | 42 | ax (80MHz) | 484T | MCS0 | -3.65 | 11.00 | -14.65 |
| Band 2A | 5270 | 54 | ax (40MHz) | 484T | MCS0 | 1.48 | 11.00 | -9.52 |
| | 5310 | 62 | ax (40MHz) | 484T | MCS0 | -2.02 | 11.00 | -13.02 |
| | 5290 | 58 | ax (80MHz) | 484T | MCS0 | -3.52 | 11.00 | -14.52 |
| Band 2C | 5510 | 102 | ax (40MHz) | 484T | MCS0 | -3.29 | 11.00 | -14.29 |
| | 5590 | 118 | ax (40MHz) | 484T | MCS0 | 0.19 | 11.00 | -10.81 |
| | 5710 | 142 | ax (40MHz) | 484T | MCS0 | 0.49 | 11.00 | -10.51 |
| | 5530 | 106 | ax (80MHz) | 484T | MCS0 | -2.25 | 11.00 | -13.25 |
| | 5610 | 122 | ax (80MHz) | 484T | MCS0 | 2.45 | 11.00 | -8.55 |
| | 5690 | 138 | ax (80MHz) | 484T | MCS0 | 3.13 | 11.00 | -7.87 |

Table 7-75. Bands 1, 2A, 2C Conducted Power Spectral Density Measurements SISO ANT1 (484 Tones)

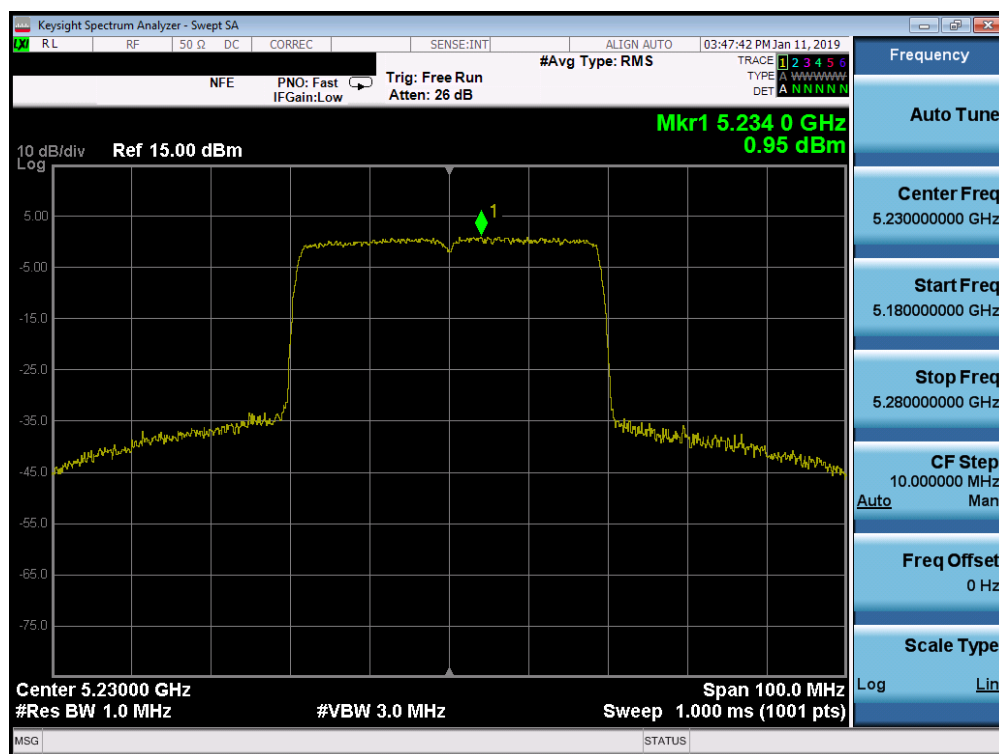
| | Frequency [MHz] | Channel No. | 802.11 Mode | Tones | Data Rate [Mbps] | Measured Power Density [dBm] | Antenna Gain [dBi] | e.i.r.p. Power Density [dBm/MHz] | ISED Max e.i.r.p. Power Density [dBm/MHz] | Margin [dB] |
|--------|-----------------|-------------|-------------|-------|------------------|------------------------------|--------------------|----------------------------------|---|-------------|
| Band 1 | 5190 | 38 | ax (40MHz) | 484T | MCS0 | -2.15 | -7.94 | -10.09 | 10.0 | -20.09 |
| | 5230 | 46 | ax (40MHz) | 484T | MCS0 | 0.95 | -7.44 | -6.49 | 10.0 | -16.49 |
| | 5210 | 42 | ax (80MHz) | 484T | MCS0 | -3.65 | -7.94 | -11.59 | 10.0 | -21.59 |

Table 7-76. Bands 1 e.i.r.p Conducted Power Spectral Density Measurements (ISED 484 Tones)

| | | | | | |
|---|---|-------------------------------|---------------------------------------|---|---------------------------------|
| FCC ID: A3LSC03L |  | | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | | | Page 168 of 514 |

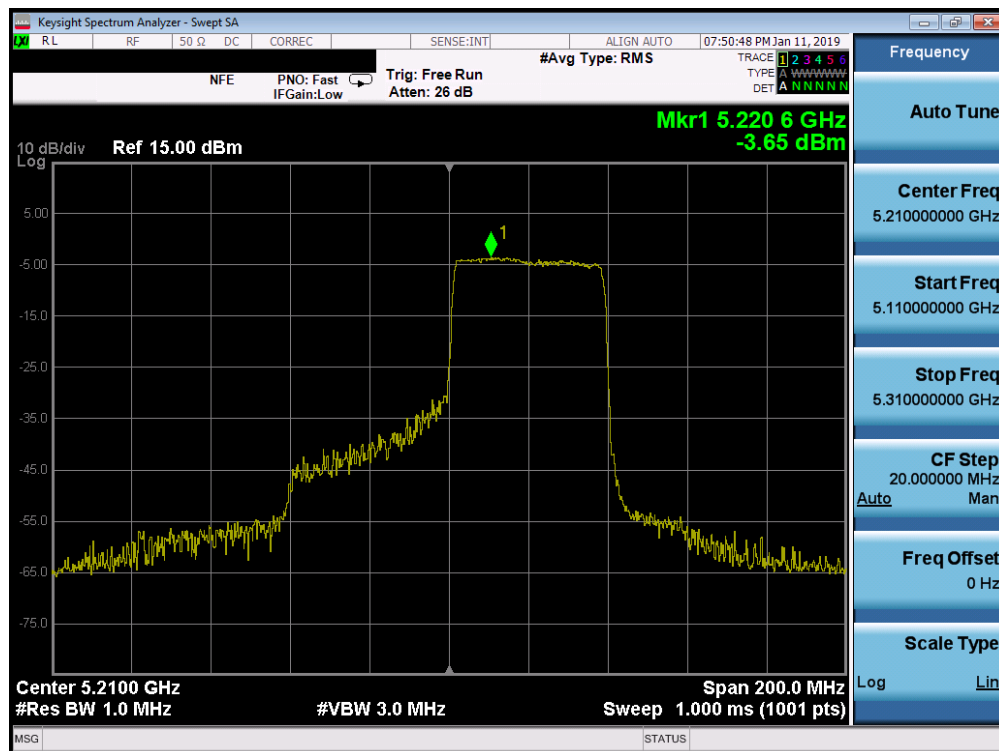


Plot 7-217. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 484 Tones (UNII Band 1) – Ch. 38)

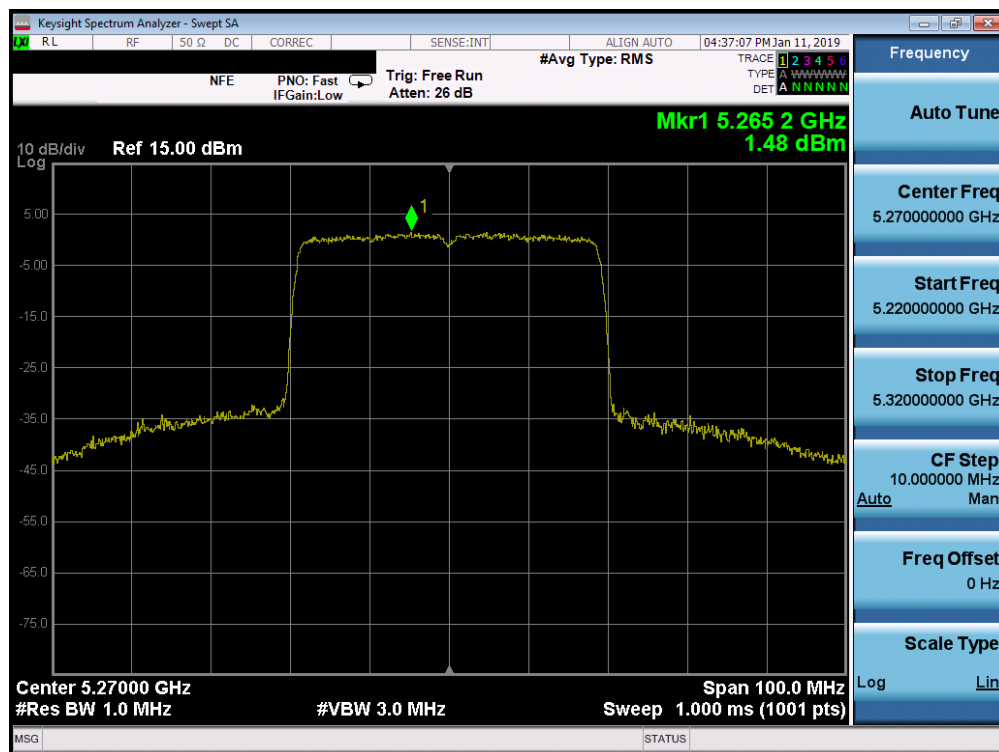


Plot 7-218. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 484 Tones (UNII Band 1) – Ch. 46)

| | | | | | |
|---|---------------------------------------|-------------------------------|---------------------------------------|-----------------|---------------------------------|
| FCC ID: A3LSC03L | | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | | Page 169 of 514 | |

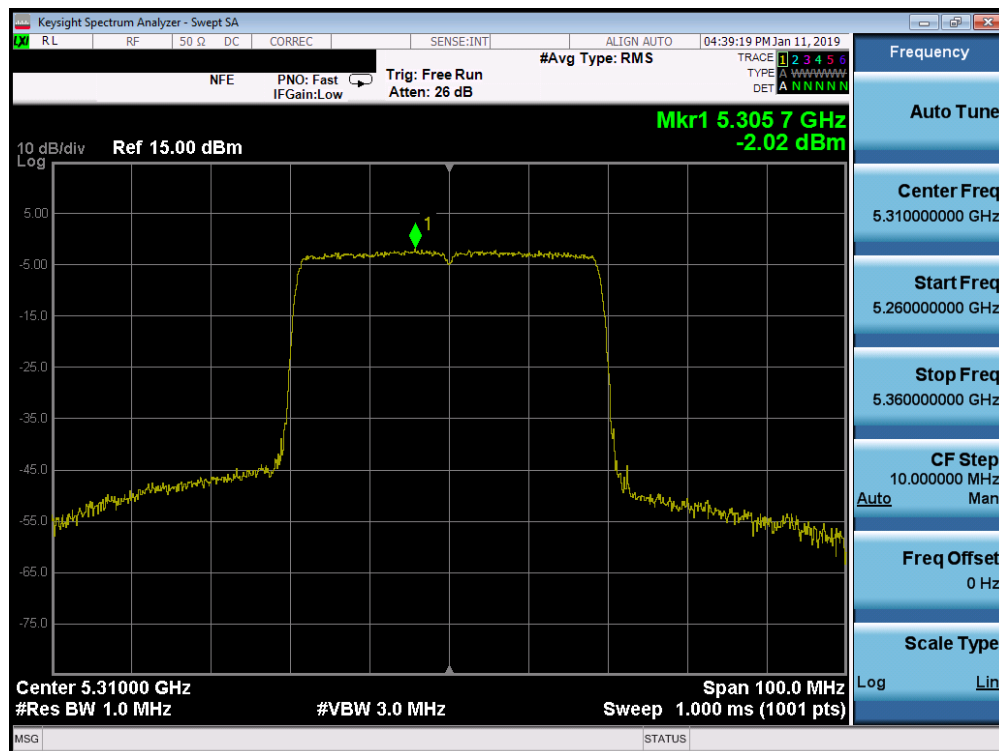


Plot 7-219. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 484 Tones (UNII Band 1) – Ch. 42)

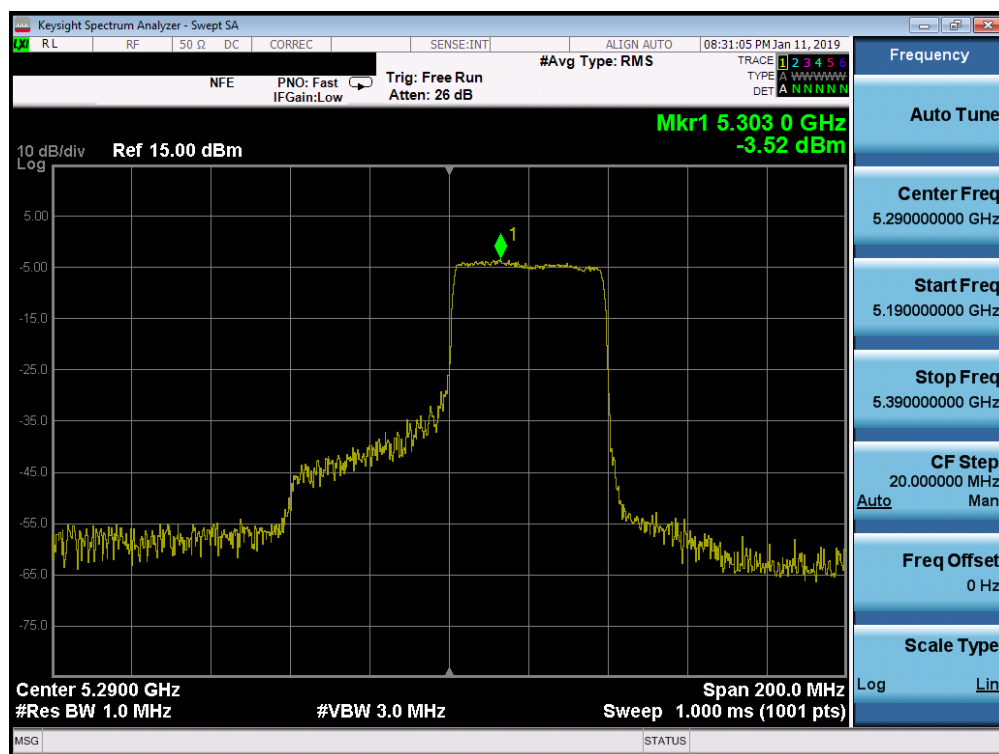


Plot 7-220. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 484 Tones (UNII Band 2A) – Ch. 54)

| | | | | | |
|---|---------------------------------------|-------------------------------|---------------------------------------|-----------------|---------------------------------|
| FCC ID: A3LSC03L | | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | | Page 170 of 514 | |

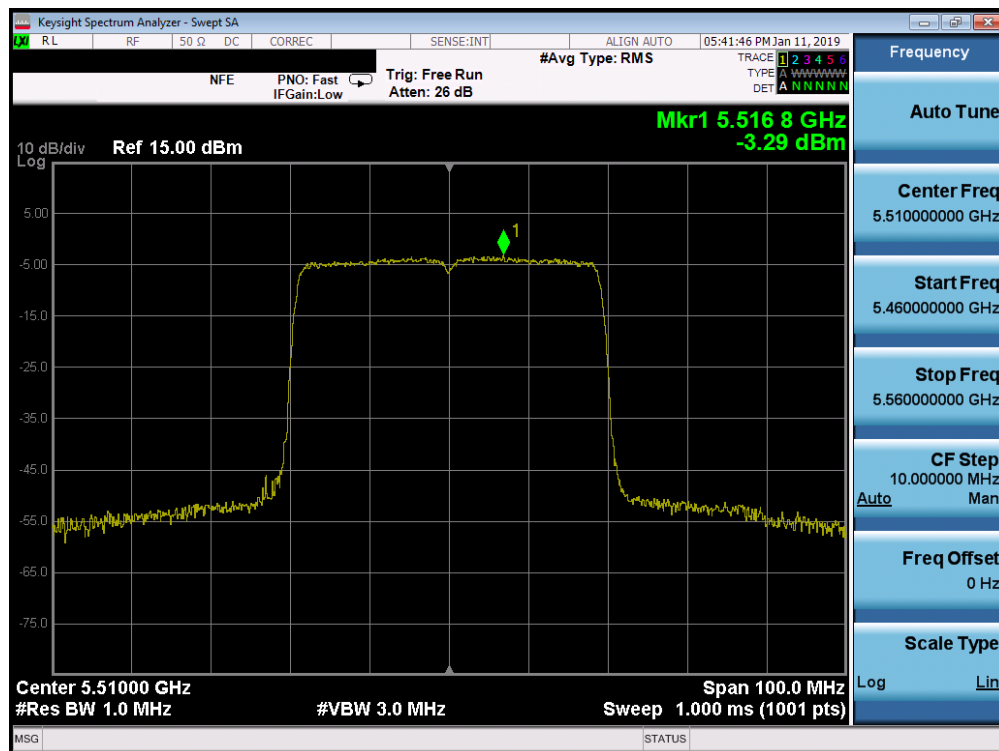


Plot 7-221. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 484 Tones (UNII Band 2A) – Ch. 62)

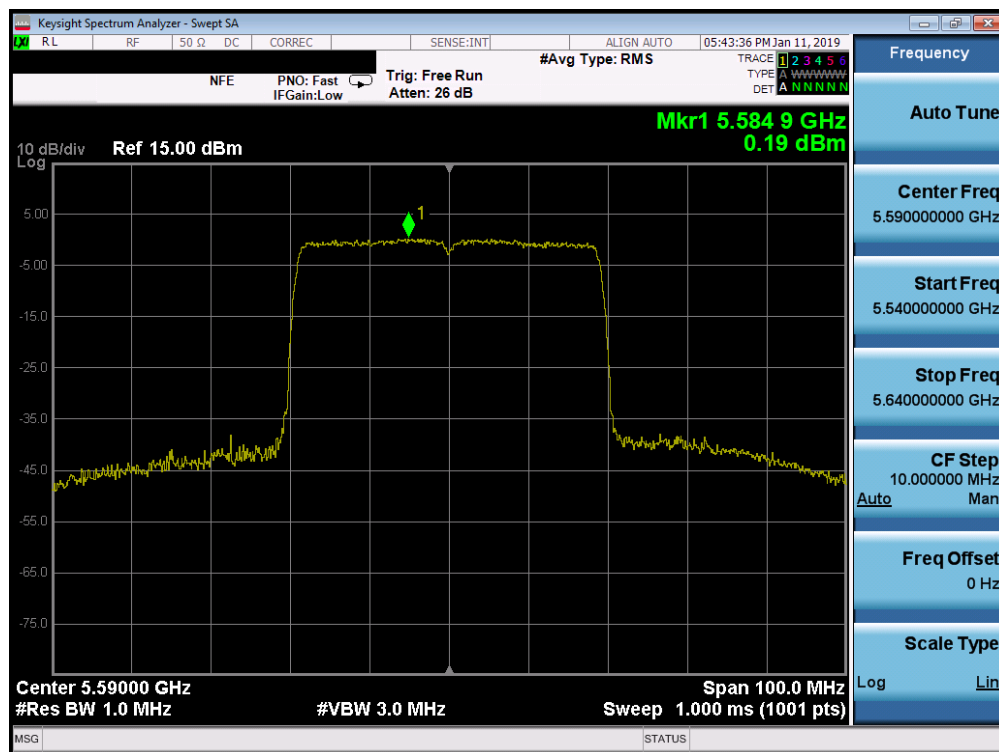


Plot 7-222. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 484 Tones (UNII Band 2A) – Ch. 58)

| | | | | |
|---|---|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSC03L | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | | Page 171 of 514 |

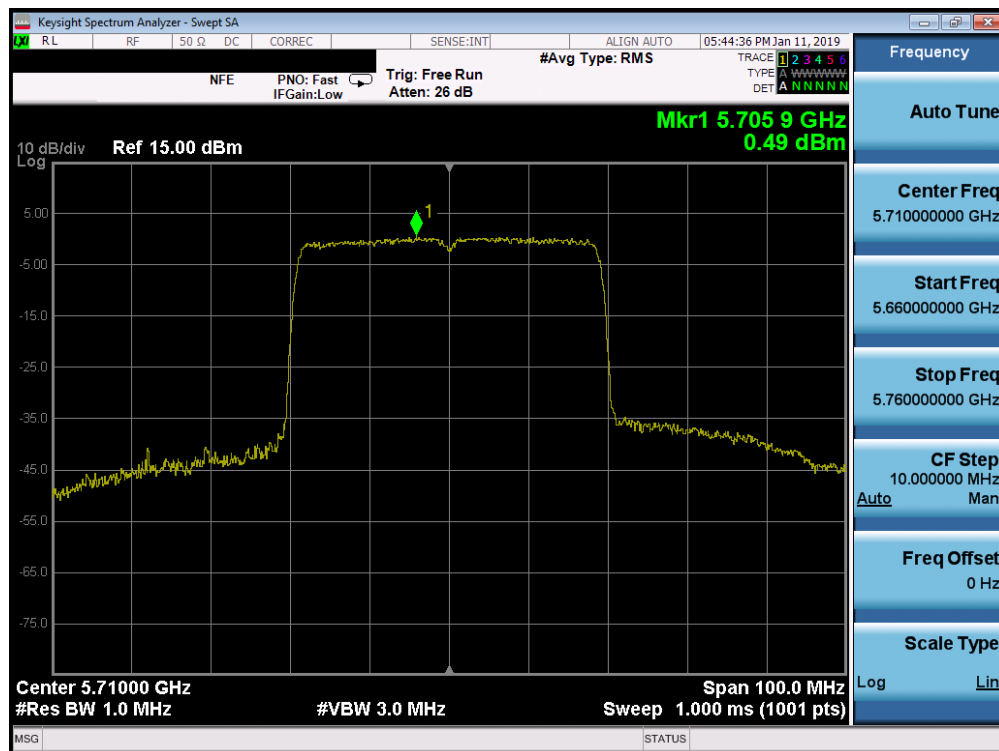


Plot 7-223. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 484 Tones (UNII Band 2C) – Ch. 102)

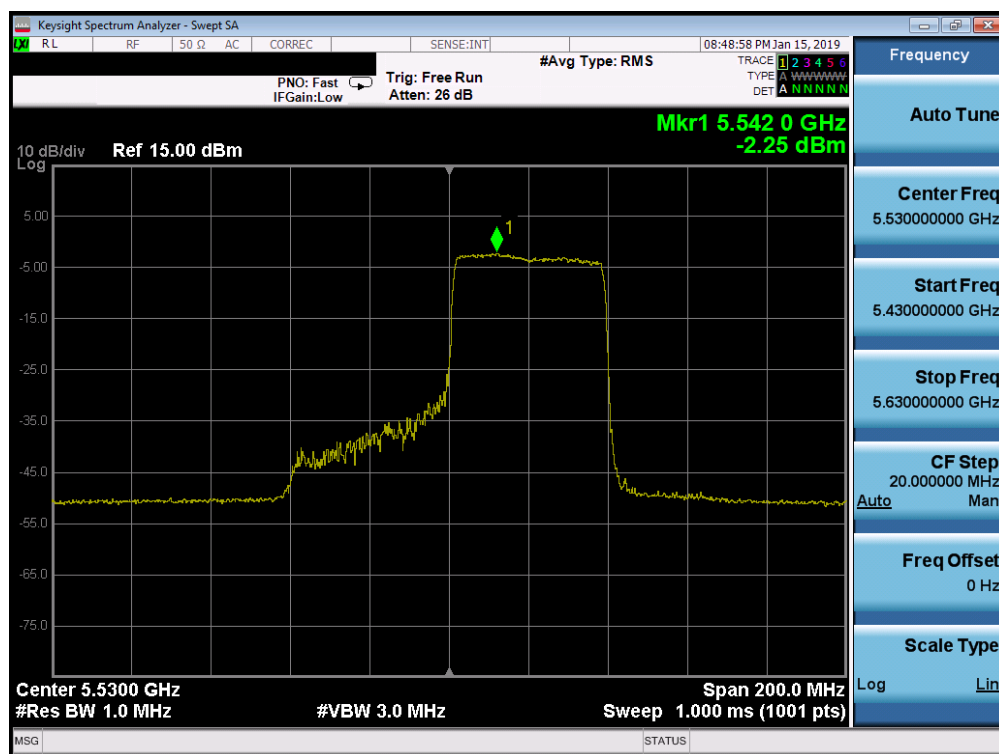


Plot 7-224. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 484 Tones (UNII Band 2C) – Ch. 118)

| | | | | | |
|---|---------------------------------------|-------------------------------|---------------------------------------|-----------------|---------------------------------|
| FCC ID: A3LSC03L | | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | | Page 172 of 514 | |

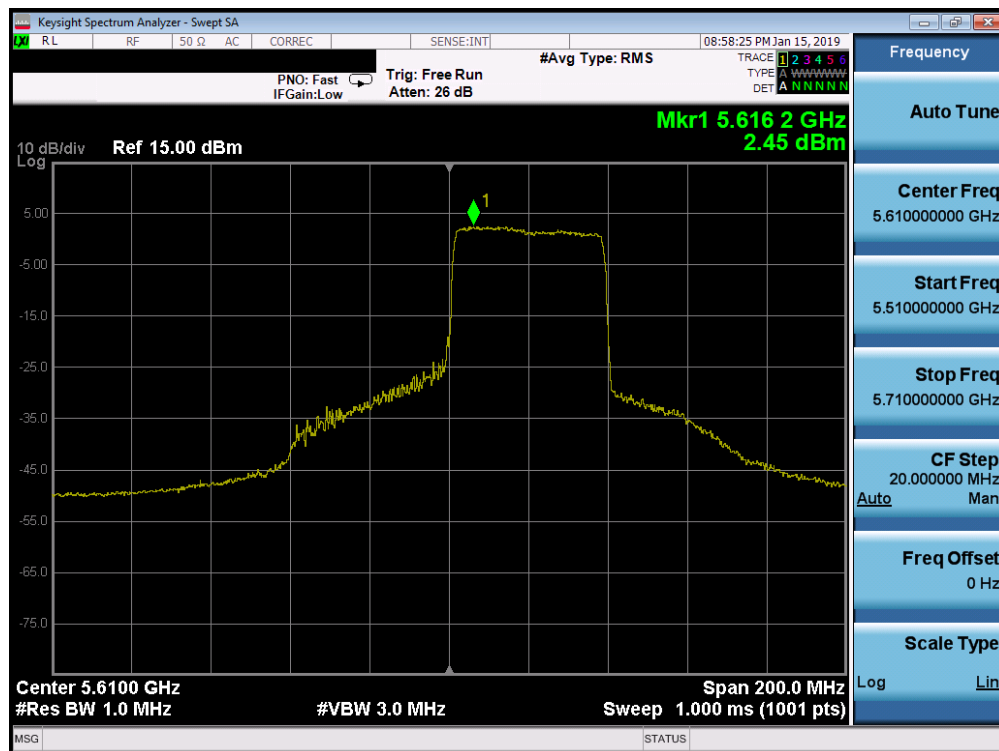


Plot 7-225. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 484 Tones (UNII Band 2C) – Ch. 142)

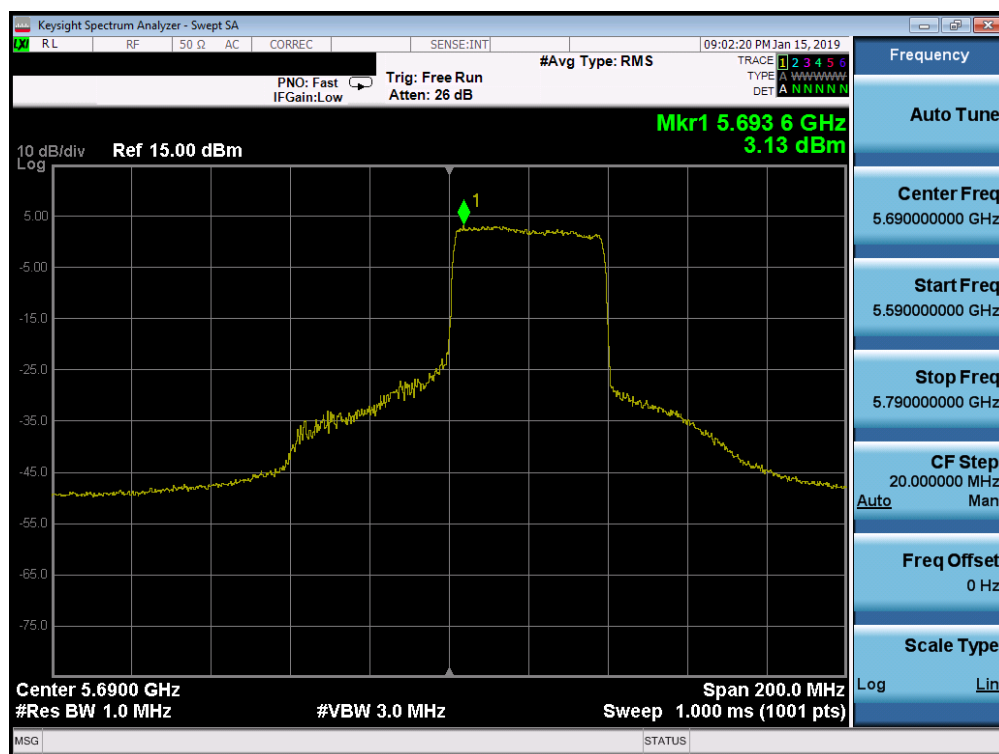


Plot 7-226. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 484 Tones (UNII Band 2C) – Ch. 106)

| | | | | |
|---|---|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSC03L | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | | Page 173 of 514 |



Plot 7-227. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 484 Tones (UNII Band 2C) – Ch. 122)

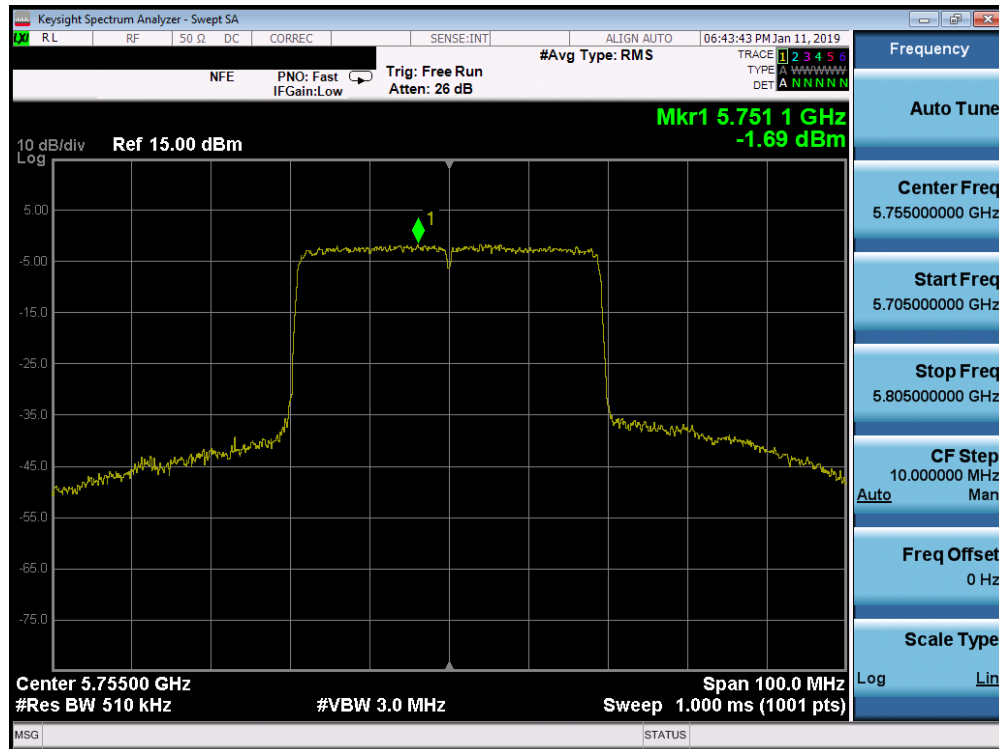


Plot 7-228. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 484 Tones (UNII Band 2C) – Ch. 138)

| | | | | |
|---|---|---------------------------------------|---|---------------------------------|
| FCC ID: A3LSC03L |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | | Page 174 of 514 |

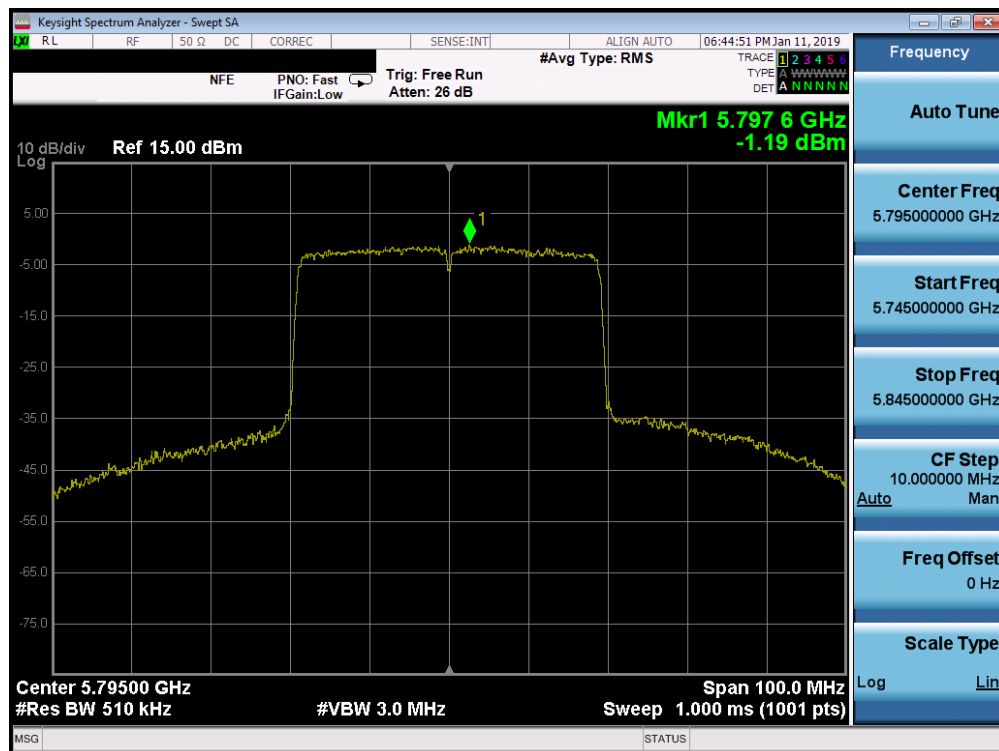
| | Frequency [MHz] | Channel No. | 802.11 Mode | Tones | Data Rate [Mbps] | Measured Power Density [dBm] | Max Permissible Power Density [dBm/500kHz] | Margin [dB] |
|---------------|-----------------|-------------|-------------|-------|------------------|------------------------------|--|-------------|
| Band 3 | 5755 | 151 | ax (40MHz) | 484T | MCS0 | -1.69 | 30.00 | -31.69 |
| | 5795 | 159 | ax (40MHz) | 484T | MCS0 | -1.19 | 30.00 | -31.19 |
| | 5775 | 155 | ax (80MHz) | 484T | MCS0 | 3.43 | 30.00 | -26.57 |

Table 7-77. Band 3 Conducted Power Spectral Density Measurements SISO ANT1 (484 Tones)

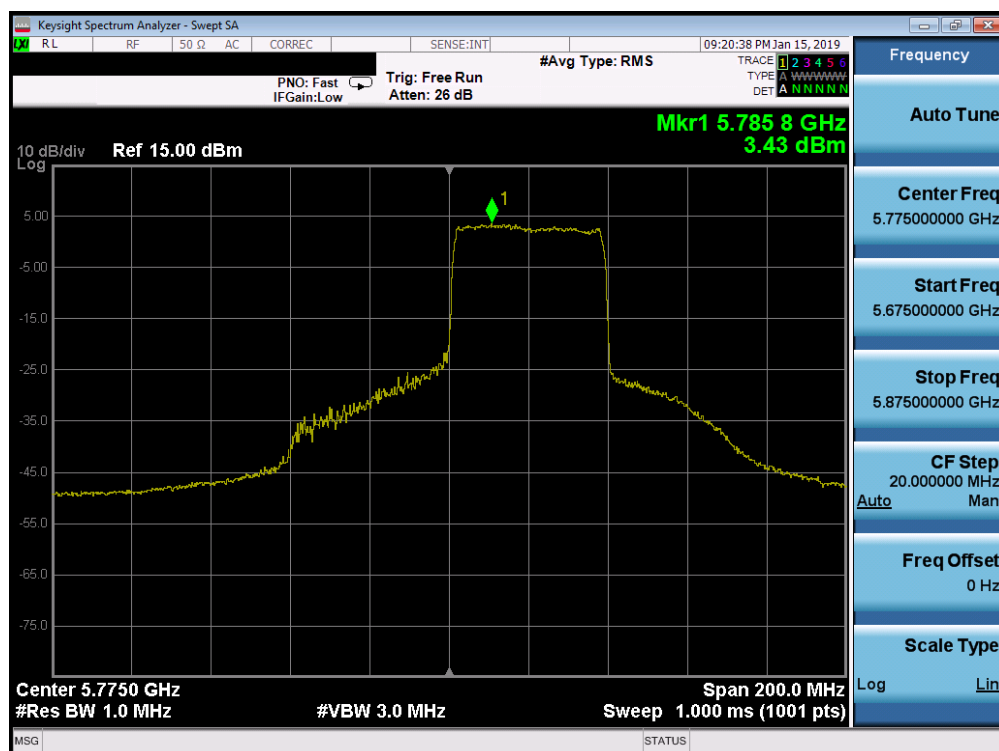


Plot 7-229. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 484 Tones (UNII Band 3) – Ch. 151)

| | | | | |
|---|---|---|----------------|---------------------------------|
| FCC ID: A3LSC03L | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | | Page 175 of 514 |



Plot 7-230. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 484 Tones (UNII Band 3) – Ch. 159)



Plot 7-231. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 484 Tones (UNII Band 3) – Ch. 155)

| | | | | | |
|---|---------------------------------------|-------------------------------|---------------------------------------|-----------------|---------------------------------|
| FCC ID: A3LSC03L | | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | | Page 176 of 514 | |

SISO Antenna-1 Power Spectral Density Measurements (996 Tones)

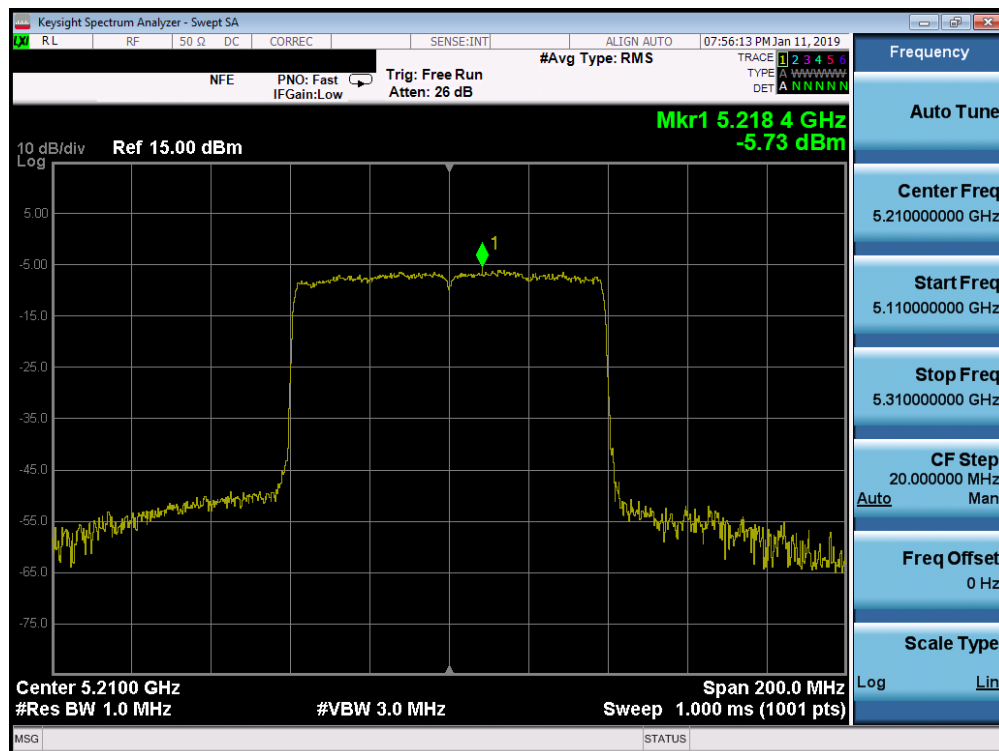
| | Frequency [MHz] | Channel No. | 802.11 Mode | Tones | Data Rate [Mbps] | Measured Power Density [dBm] | Max Power Density [dBm/MHz] | Margin [dB] |
|---------|-----------------|-------------|-------------|-------|------------------|------------------------------|-----------------------------|-------------|
| Band 1 | 5210 | 42 | ax (80MHz) | 996T | MCS0 | -5.73 | 11.00 | -16.73 |
| Band 2A | 5290 | 58 | ax (80MHz) | 996T | MCS0 | -6.40 | 11.00 | -17.40 |
| Band 2C | 5530 | 106 | ax (80MHz) | 996T | MCS0 | -5.43 | 11.00 | -16.43 |
| | 5610 | 122 | ax (80MHz) | 996T | MCS0 | -1.60 | 11.00 | -12.60 |
| | 5690 | 138 | ax (80MHz) | 996T | MCS0 | -5.03 | 11.00 | -16.03 |

Table 7-78. Bands 1, 2A, 2C Conducted Power Spectral Density Measurements SISO ANT1 (996 Tones)

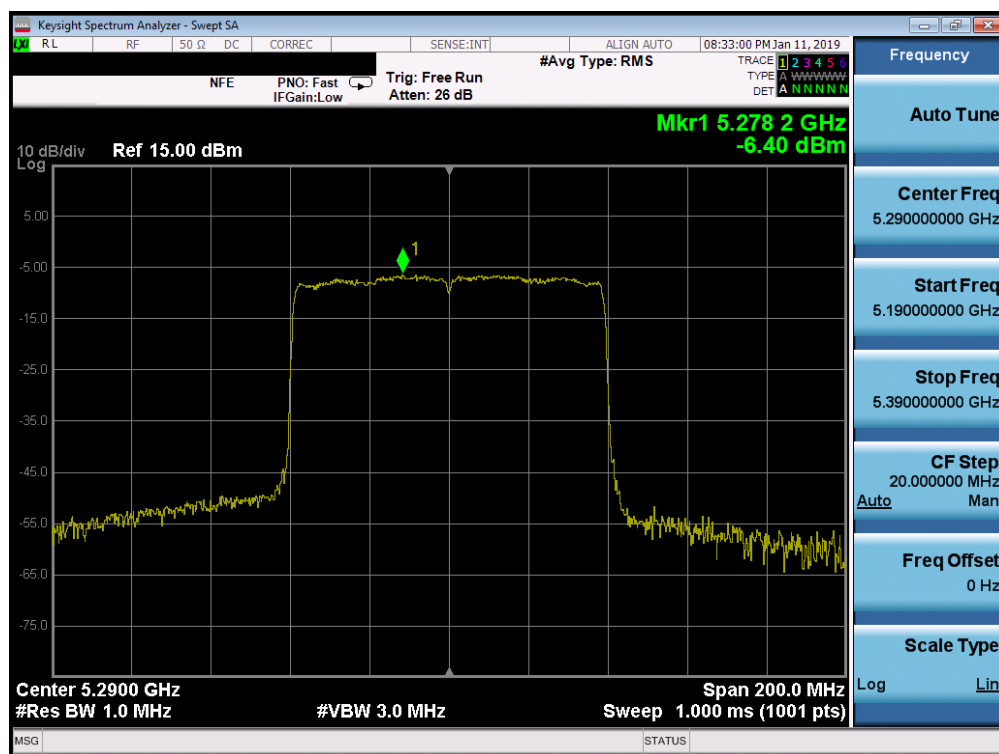
| | Frequency [MHz] | Channel No. | 802.11 Mode | Tones | Data Rate [Mbps] | Measured Power Density [dBm] | Antenna Gain [dBi] | e.i.r.p. Power Density [dBm/MHz] | ISED Max e.i.r.p. Power Density [dBm/MHz] | Margin [dB] |
|--------|-----------------|-------------|-------------|-------|------------------|------------------------------|--------------------|----------------------------------|---|-------------|
| Band 1 | 5210 | 42 | ax (80MHz) | 996T | MCS0 | -5.73 | -7.94 | -13.67 | 10.0 | -23.67 |

Table 7-79. Bands 1 e.i.r.p Conducted Power Spectral Density Measurements (ISED 996 Tones)

| | | | |
|--|---|--------------------------------------|--|
| FCC ID: A3LSC03L |  MEASUREMENT REPORT (CERTIFICATION)  | | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | Page 177 of 514 |

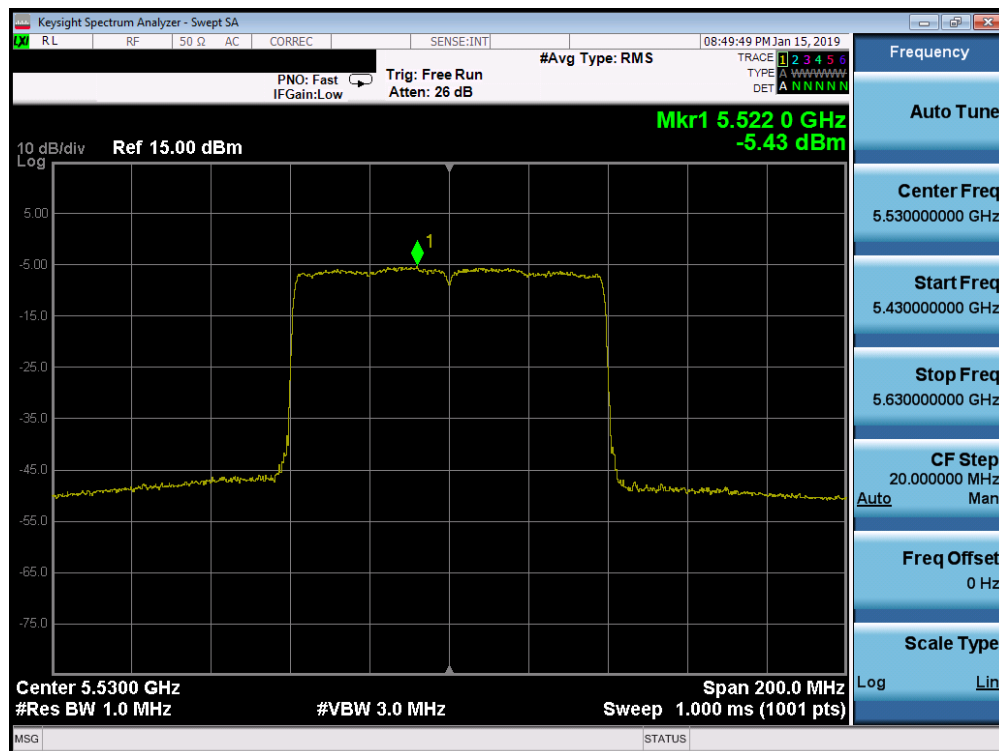


Plot 7-232. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 996 Tones (UNII Band 1) – Ch. 42)

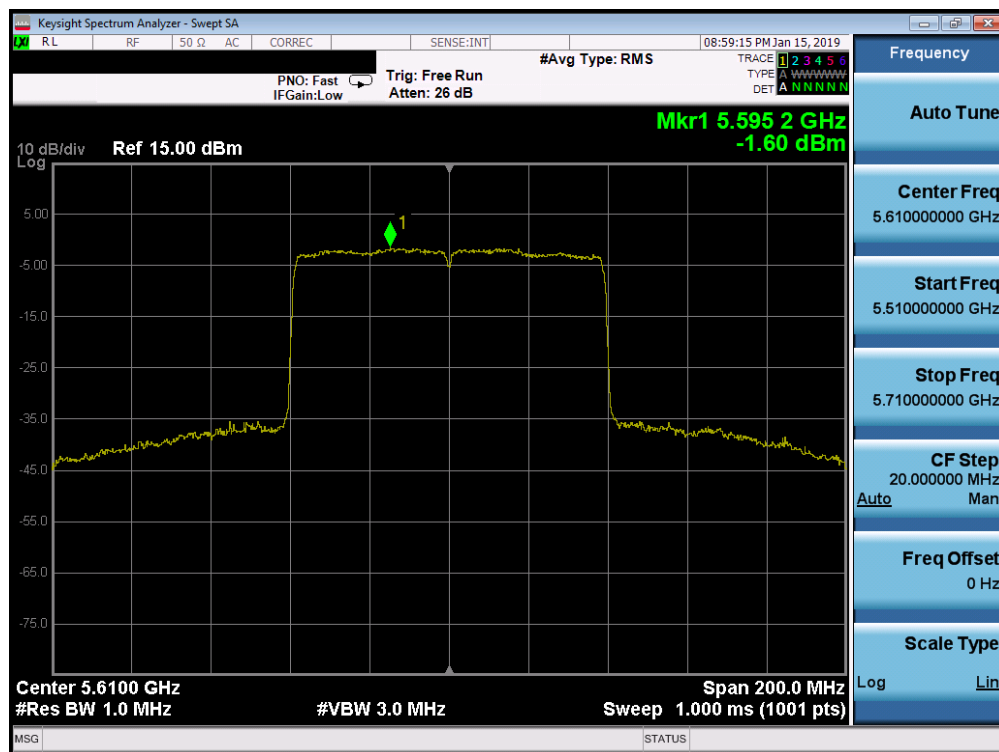


Plot 7-233. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 996 Tones (UNII Band 2A) – Ch. 58)

| | | | | |
|---|---------------------------------------|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSC03L | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | | Page 178 of 514 |

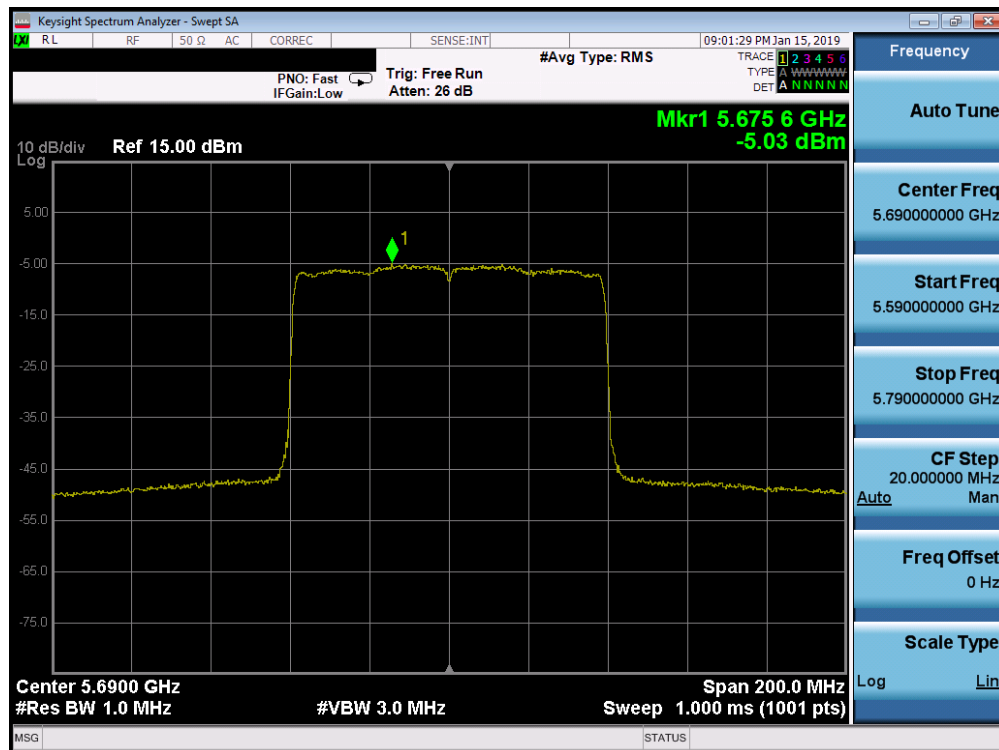


Plot 7-234. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 996 Tones (UNII Band 2C) – Ch. 106)



Plot 7-235. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 996 Tones (UNII Band 2C) – Ch. 122)

| | | | | |
|---|---|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSC03L | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | | Page 179 of 514 |



Plot 7-236. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 996 Tones (UNII Band 2C) – Ch. 138)

| | | | |
|---|---|-------------------------------|---------------------------------|
| FCC ID: A3LSC03L |  MEASUREMENT REPORT (CERTIFICATION)  | | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | Page 180 of 514 |

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

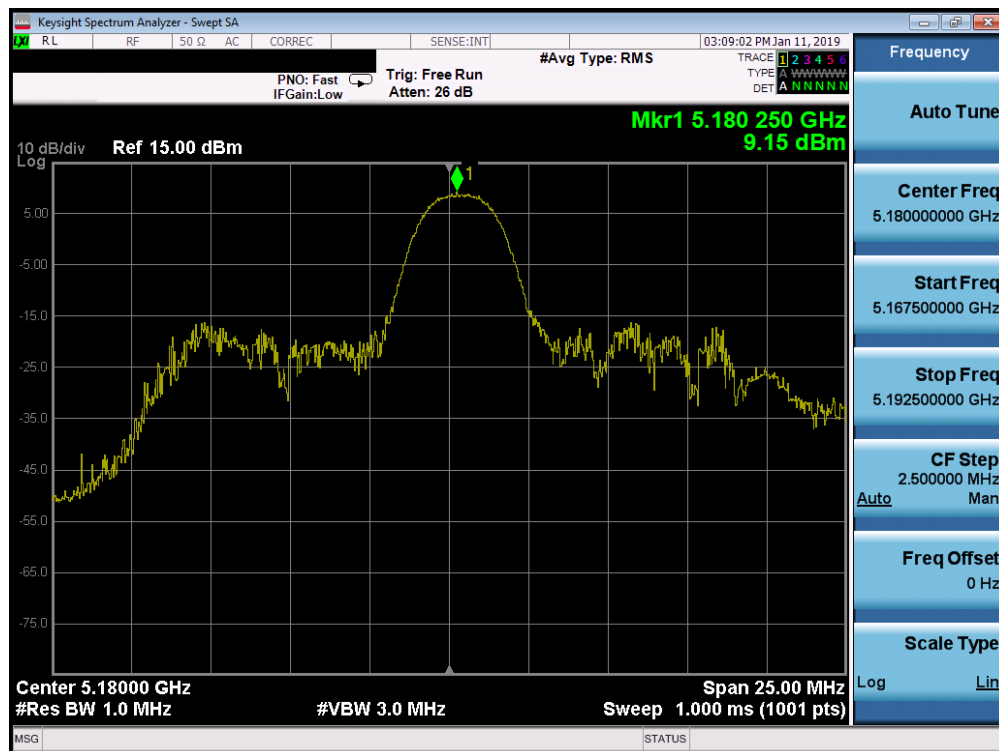
| | Frequency [MHz] | Channel No. | 802.11 Mode | Tones | Data Rate [Mbps] | Measured Power Density [dBm] | Max Power Density [dBm/MHz] | Margin [dB] |
|---------|-----------------|-------------|-------------|-------|------------------|------------------------------|-----------------------------|-------------|
| Band 1 | 5180 | 36 | ax (20MHz) | 26T | MCS0 | 9.15 | 11.00 | -1.85 |
| | 5200 | 40 | ax (20MHz) | 26T | MCS0 | 8.84 | 11.00 | -2.16 |
| | 5240 | 48 | ax (20MHz) | 26T | MCS0 | 8.98 | 11.00 | -2.02 |
| | 5190 | 38 | ax (40MHz) | 26T | MCS0 | 8.02 | 11.00 | -2.98 |
| | 5230 | 46 | ax (40MHz) | 26T | MCS0 | 8.55 | 11.00 | -2.45 |
| | 5210 | 42 | ax (80MHz) | 26T | MCS0 | 9.39 | 11.00 | -1.61 |
| Band 2A | 5260 | 52 | ax (20MHz) | 26T | MCS0 | 8.71 | 11.00 | -2.29 |
| | 5280 | 56 | ax (20MHz) | 26T | MCS0 | 8.62 | 11.00 | -2.38 |
| | 5320 | 64 | ax (20MHz) | 26T | MCS0 | 8.79 | 11.00 | -2.21 |
| | 5270 | 54 | ax (40MHz) | 26T | MCS0 | 8.26 | 11.00 | -2.74 |
| | 5310 | 62 | ax (40MHz) | 26T | MCS0 | 8.10 | 11.00 | -2.90 |
| | 5290 | 58 | ax (80MHz) | 26T | MCS0 | 10.01 | 11.00 | -0.99 |
| Band 2C | 5500 | 100 | ax (20MHz) | 26T | MCS0 | 9.53 | 11.00 | -1.47 |
| | 5600 | 120 | ax (20MHz) | 26T | MCS0 | 9.51 | 11.00 | -1.49 |
| | 5720 | 144 | ax (20MHz) | 26T | MCS0 | 9.36 | 11.00 | -1.64 |
| | 5510 | 102 | ax (40MHz) | 26T | MCS0 | 8.40 | 11.00 | -2.60 |
| | 5590 | 118 | ax (40MHz) | 26T | MCS0 | 8.47 | 11.00 | -2.53 |
| | 5710 | 142 | ax (40MHz) | 26T | MCS0 | 8.40 | 11.00 | -2.60 |
| | 5530 | 106 | ax (80MHz) | 26T | MCS0 | 9.98 | 11.00 | -1.02 |
| | 5610 | 122 | ax (80MHz) | 26T | MCS0 | 10.10 | 11.00 | -0.90 |
| | 5690 | 138 | ax (80MHz) | 26T | MCS0 | 10.42 | 11.00 | -0.58 |

Table 7-81. Bands 1, 2A, 2C 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 | 9.15 | -7.70 | 1.45 | 10.0 | -8.55 |
| | 5200 | 40 | ax (20MHz) | 26T | MCS0 | 8.84 | -7.57 | 1.27 | 10.0 | -8.73 |
| | 5240 | 48 | ax (20MHz) | 26T | MCS0 | 8.98 | -8.01 | 0.97 | 10.0 | -9.03 |
| | 5190 | 38 | ax (40MHz) | 26T | MCS0 | 8.02 | -7.57 | 0.45 | 10.0 | -9.55 |
| | 5230 | 46 | ax (40MHz) | 26T | MCS0 | 8.55 | -8.01 | 0.54 | 10.0 | -9.46 |
| | 5210 | 42 | ax (80MHz) | 26T | MCS0 | 9.39 | -7.57 | 1.82 | 10.0 | -8.18 |

Table 7-82. Bands 1 e.i.r.p Conducted Power Spectral Density Measurements (ISED 26 Tones)

| | | | |
|--|---|--------------------------------------|--|
| FCC ID: A3LSC03L |  MEASUREMENT REPORT (CERTIFICATION)  | | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | Page 182 of 514 |

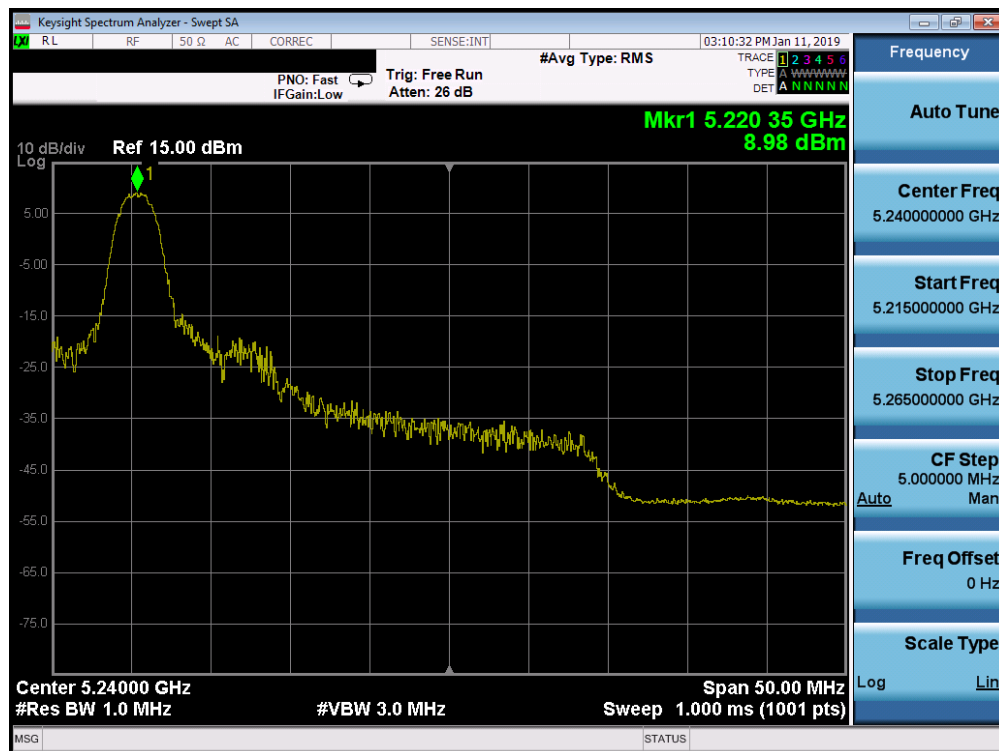


Plot 7-238. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 36)

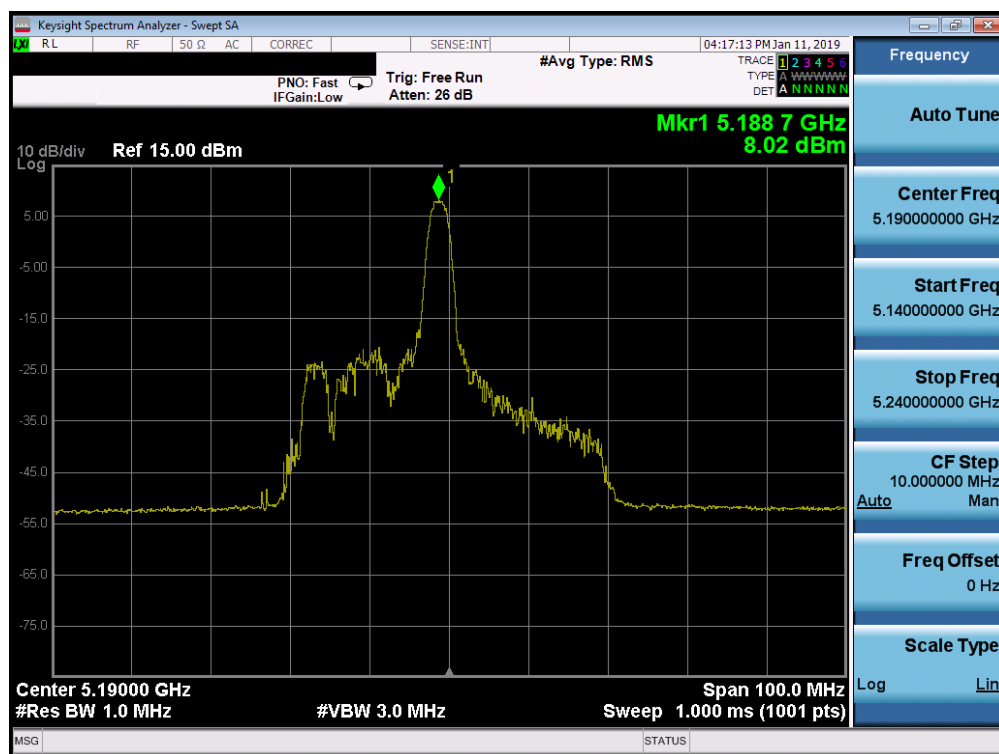


Plot 7-239. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 40)

| | | | |
|---|---|-------------------------------|---------------------------------|
| FCC ID: A3LSC03L |  MEASUREMENT REPORT (CERTIFICATION)  | | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | Page 183 of 514 |

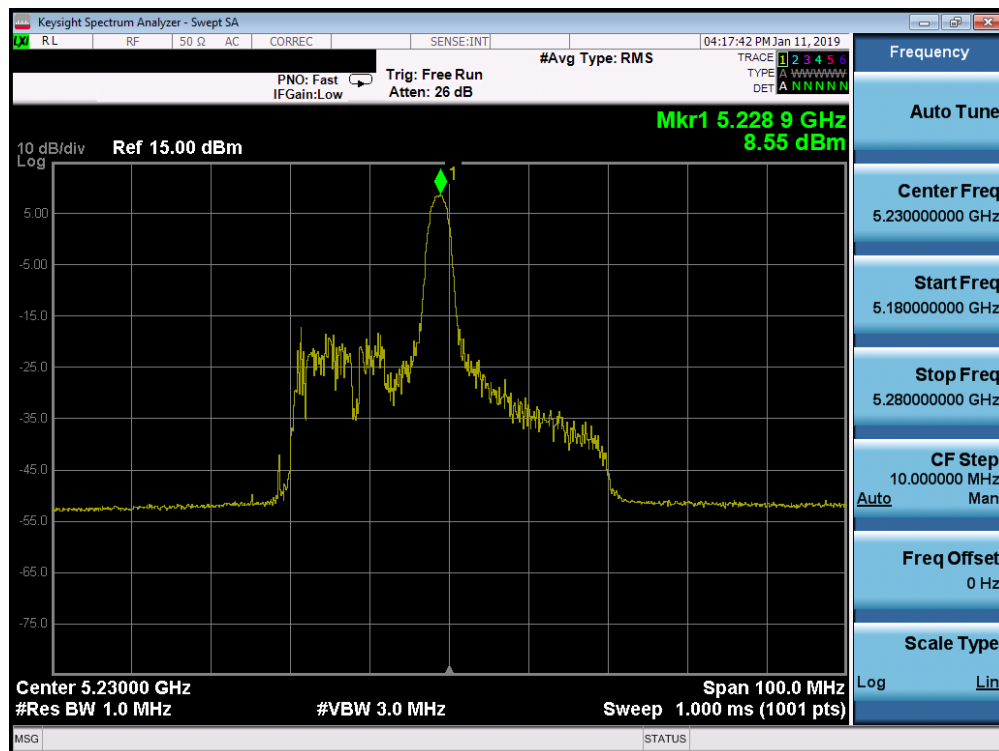


Plot 7-240. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 48)

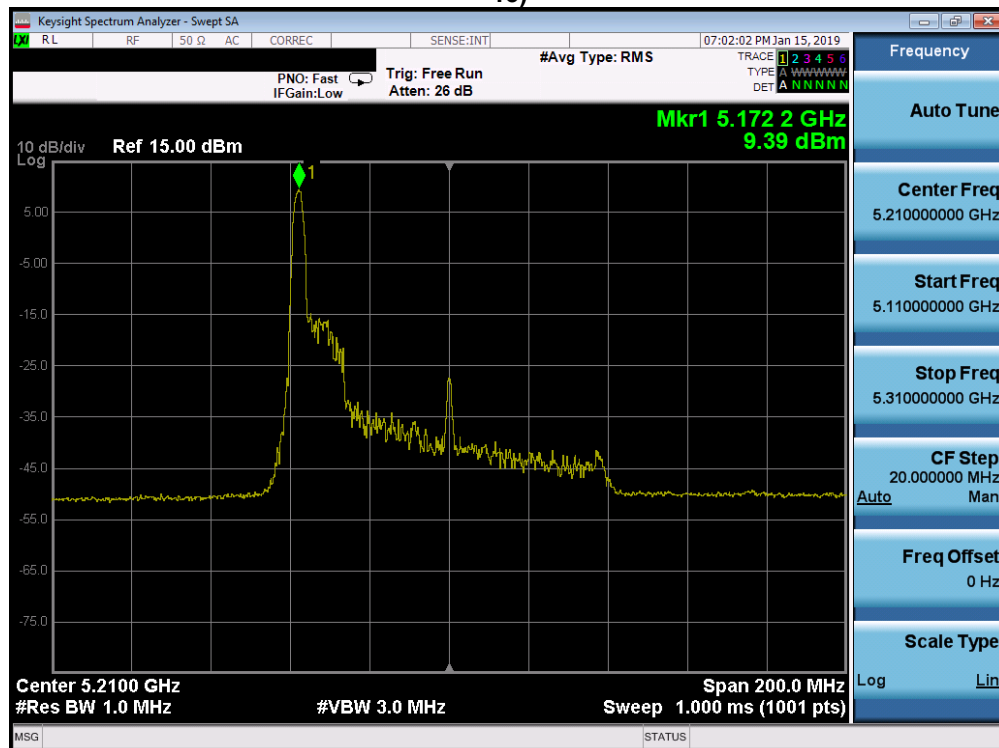


Plot 7-241. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 38)

| | | | | |
|---|---|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSC03L | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | | Page 184 of 514 |

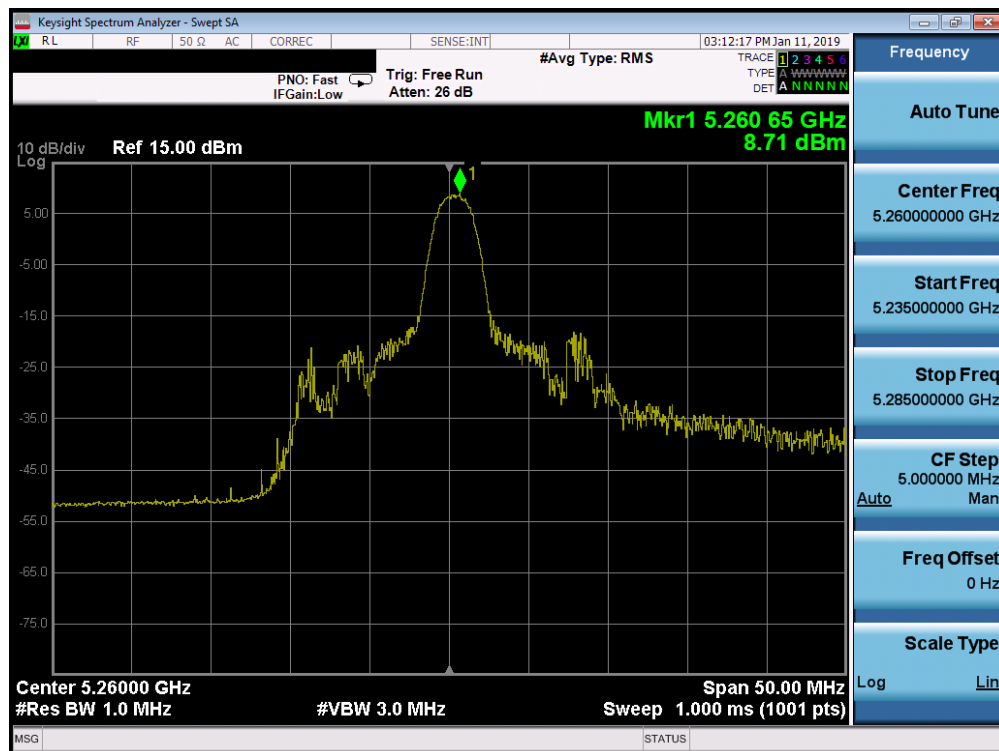


Plot 7-242. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 46)

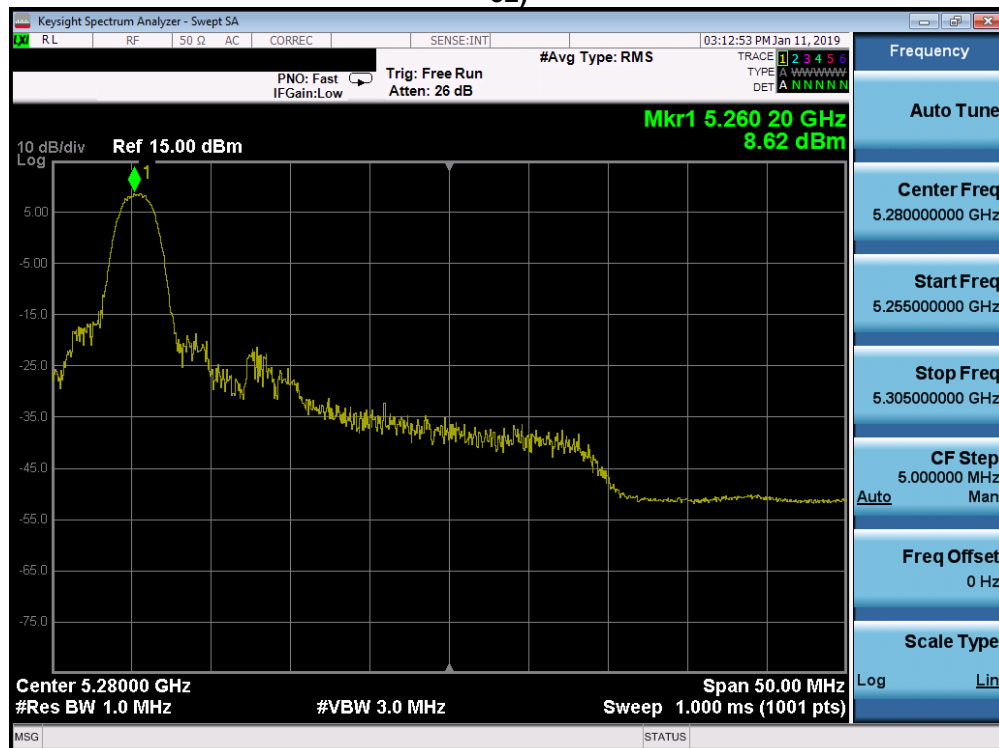


Plot 7-243. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 42)

| | | | | | |
|---|---------------------------------------|-------------------------------|---------------------------------------|-----------------|---------------------------------|
| FCC ID: A3LSC03L | | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | | Page 185 of 514 | |

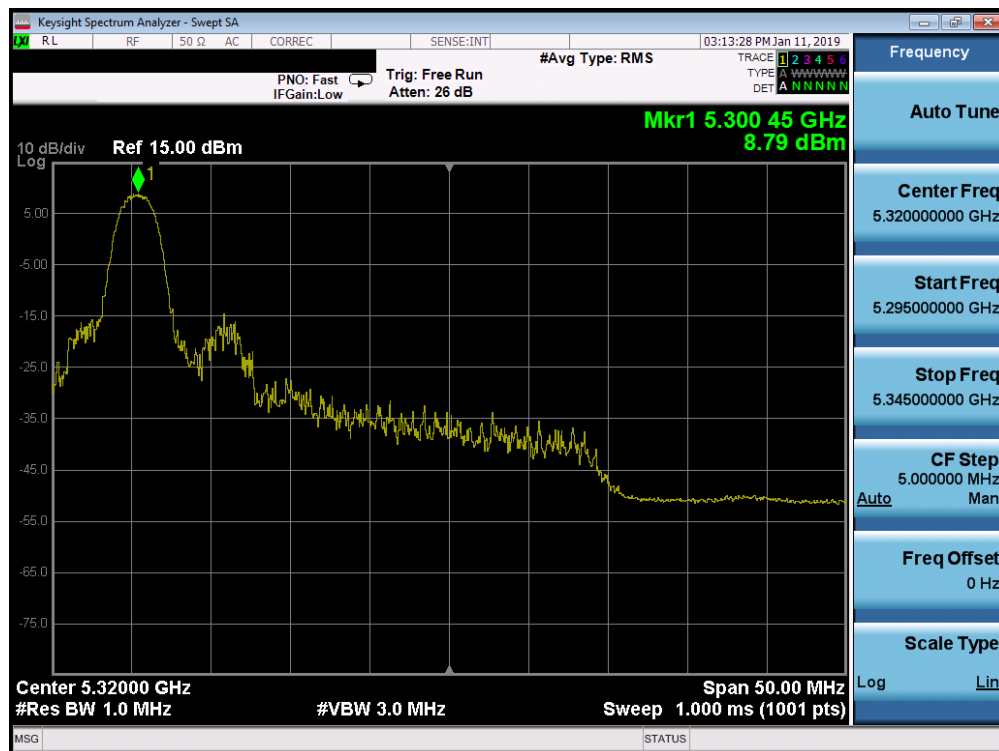


Plot 7-244. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 52)

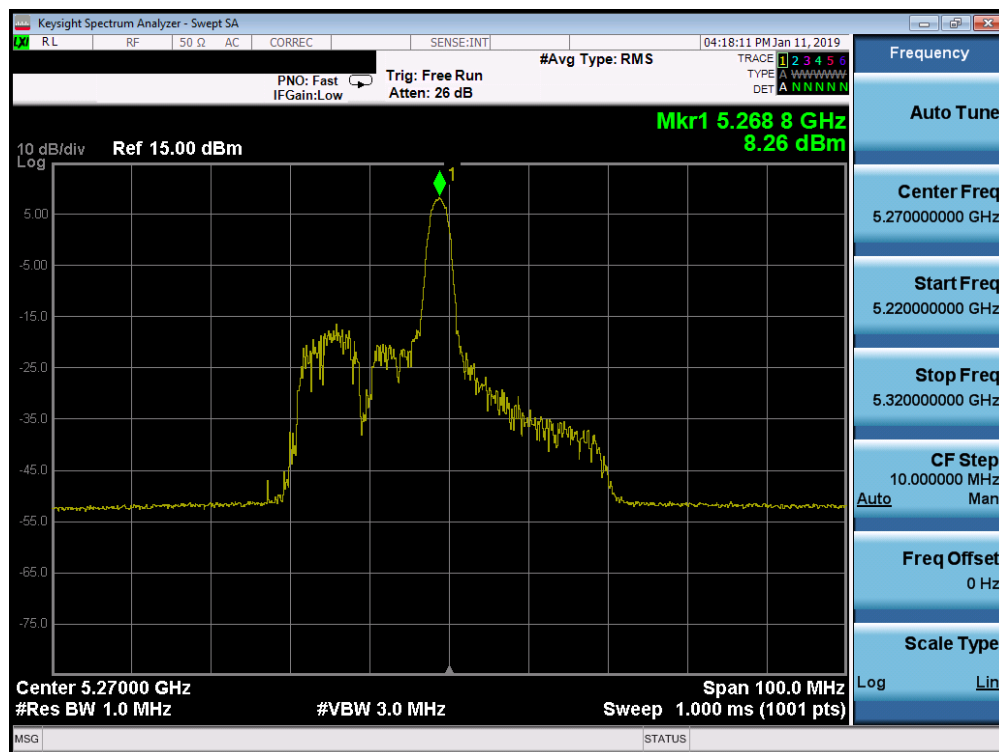


Plot 7-245. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 56)

| | | | | |
|---|---|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSC03L | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | | Page 186 of 514 |

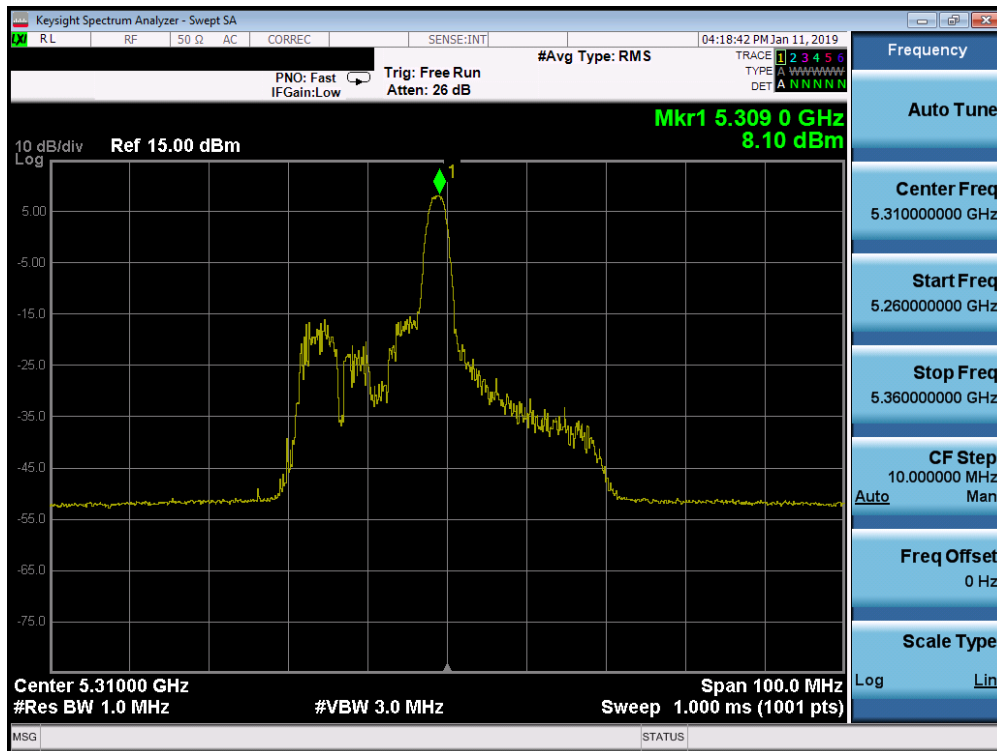


Plot 7-246. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 64)

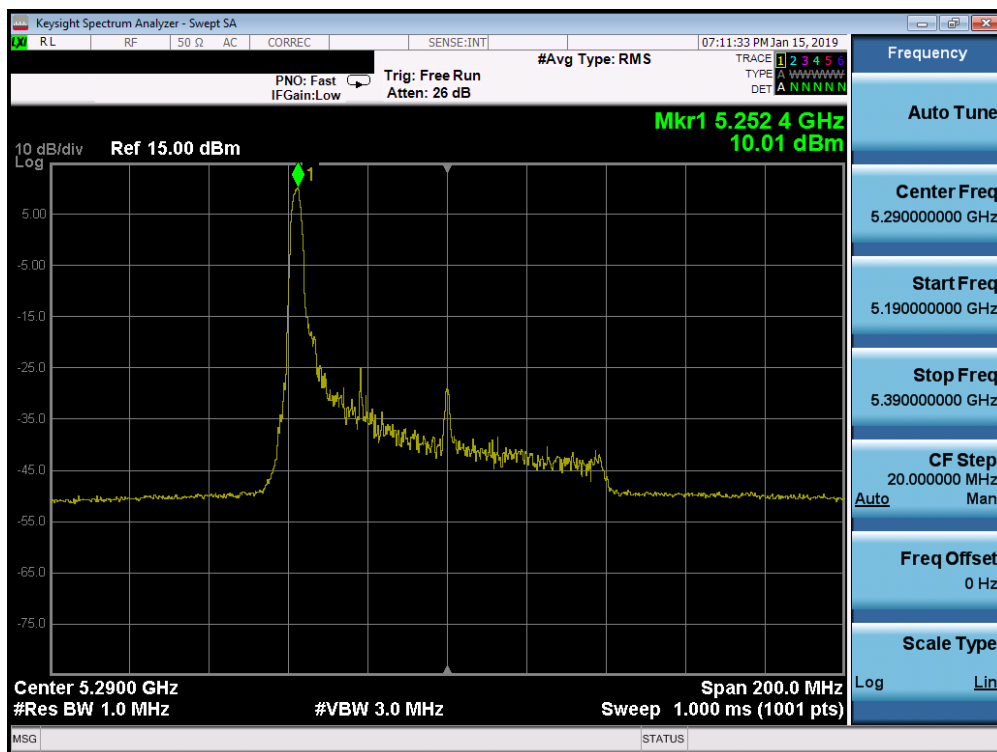


Plot 7-247. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 54)

| | | | | | |
|---|---------------------------------------|-------------------------------|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSC03L | | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | Page 187 of 514 | | |

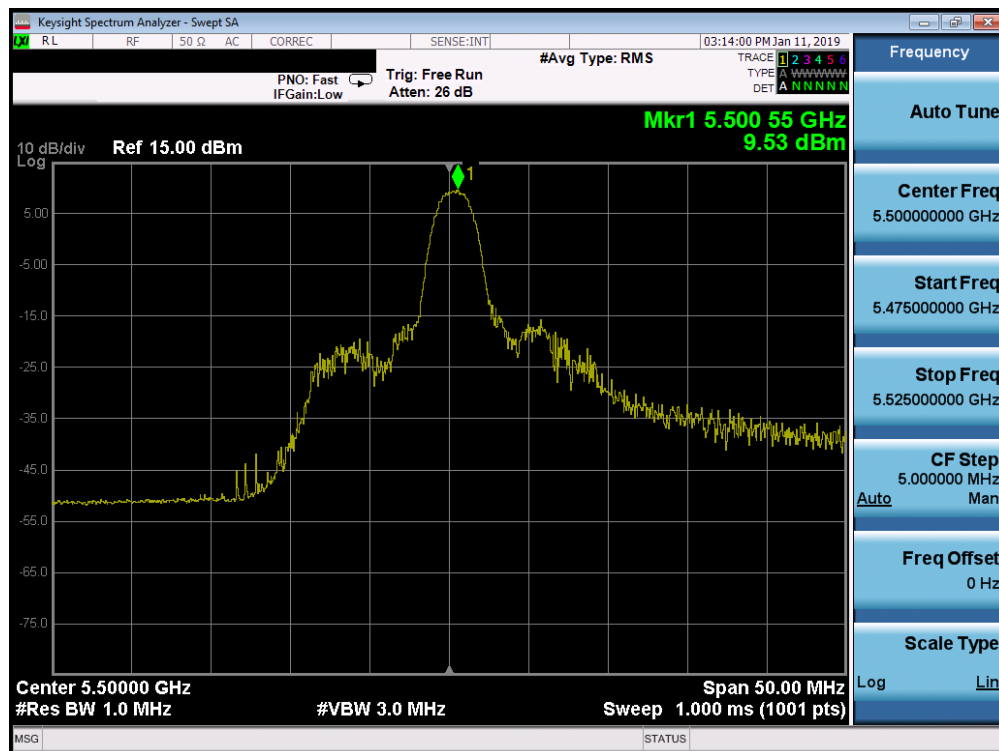


Plot 7-248. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 62)

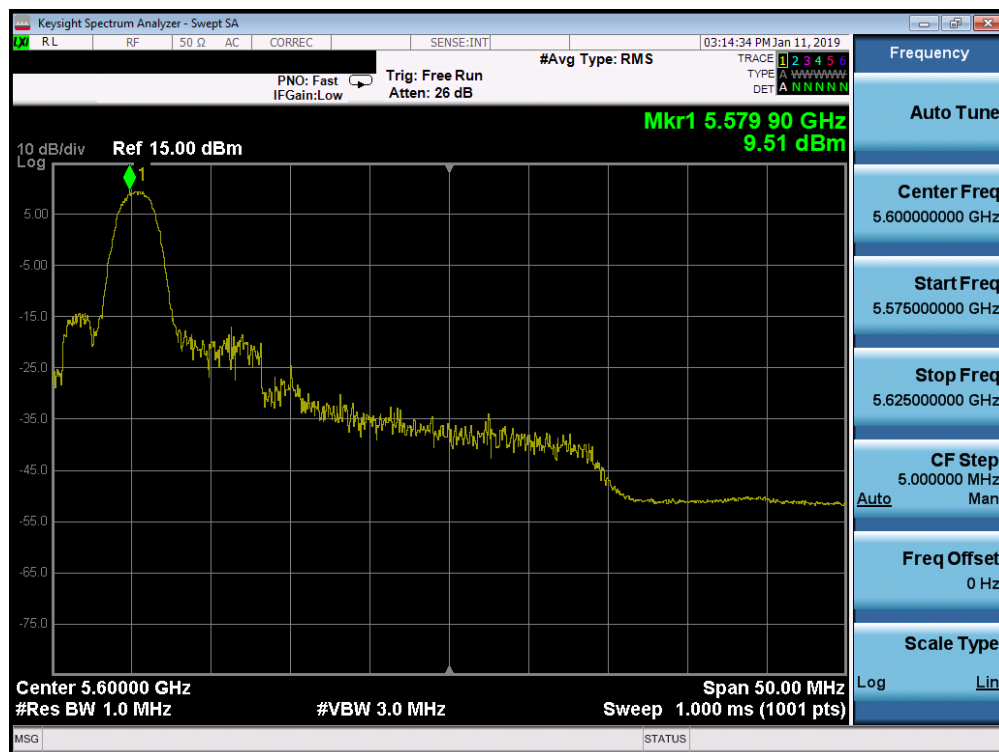


Plot 7-249. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 58)

| | | | | | |
|---|---------------------------------------|-------------------------------|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSC03L | | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | Page 188 of 514 | | |



Plot 7-250. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 100)



Plot 7-251. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 120)

| | | | | |
|---|---|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSC03L | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
| Test Report S/N: 1M1901240017-07.A3L | Test Dates: 10/23/2018 - 1/18/2019 | EUT Type: Portable Handset | | Page 189 of 514 |