

## SISO Antenna-2 Radiated Spurious Emission Measurements

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

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

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| 10360.00        | Peak     | H               | -                   | -                          | -69.59               | 11.98       | 0.00                            | 49.39                   | 68.20          | -18.81      |
| * 15540.00      | Average  | H               | -                   | -                          | -82.26               | 14.44       | 0.00                            | 39.18                   | 53.98          | -14.80      |
| * 15540.00      | Peak     | H               | -                   | -                          | -70.64               | 14.44       | 0.00                            | 50.80                   | 73.98          | -23.18      |
| * 20720.00      | Average  | H               | -                   | -                          | -71.23               | 7.94        | -9.54                           | 34.17                   | 53.98          | -19.81      |
| * 20720.00      | Peak     | H               | -                   | -                          | -60.88               | 7.94        | -9.54                           | 44.52                   | 73.98          | -29.46      |
| 25900.00        | Peak     | H               | -                   | -                          | -57.42               | 8.46        | -9.54                           | 48.50                   | 68.20          | -19.70      |

Table 7-37. Radiated Measurements SISO ANT2

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

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| 10400.00        | Peak     | H               | -                   | -                          | -69.03               | 11.85       | 0.00                            | 49.82                   | 68.20          | -18.38      |
| * 15600.00      | Average  | H               | -                   | -                          | -82.15               | 14.28       | 0.00                            | 39.13                   | 53.98          | -14.85      |
| * 15600.00      | Peak     | H               | -                   | -                          | -70.84               | 14.28       | 0.00                            | 50.44                   | 73.98          | -23.54      |
| * 20800.00      | Average  | H               | -                   | -                          | -71.16               | 7.95        | -9.54                           | 34.25                   | 53.98          | -19.73      |
| * 20800.00      | Peak     | H               | -                   | -                          | -61.02               | 7.95        | -9.54                           | 44.39                   | 73.98          | -29.59      |
| 26000.00        | Peak     | H               | -                   | -                          | -57.87               | 8.60        | -9.54                           | 48.19                   | 68.20          | -20.01      |

Table 7-38. Radiated Measurements SISO ANT2

Worst Case Mode: 802.11a

|                                            |                                                                                     |                                       |                                                                                       |                                 |
|--------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFQ910QM                          |  | MEASUREMENT REPORT<br>(CERTIFICATION) |  | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1806290137-06-R2-ZNF | Test Dates:<br>6/29 - 7/31/2018                                                     | EUT Type:<br>Portable Handset         |                                                                                       | Page 129 of 169                 |

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

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| 10480.00        | Peak     | H               | -                   | -                          | -68.75               | 12.06       | 0.00                            | 50.31                   | 68.20          | -17.89      |
| * 15720.00      | Average  | H               | -                   | -                          | -82.59               | 15.26       | 0.00                            | 39.67                   | 53.98          | -14.31      |
| * 15720.00      | Peak     | H               | -                   | -                          | -70.19               | 15.26       | 0.00                            | 52.07                   | 73.98          | -21.91      |
| * 20960.00      | Average  | H               | -                   | -                          | -71.42               | 7.91        | -9.54                           | 33.95                   | 53.98          | -20.03      |
| * 20960.00      | Peak     | H               | -                   | -                          | -60.19               | 7.91        | -9.54                           | 45.18                   | 73.98          | -28.80      |
| 26200.00        | Peak     | H               | -                   | -                          | -58.40               | 8.62        | -9.54                           | 47.68                   | 68.20          | -20.52      |

**Table 7-39. Radiated Measurements SISO ANT2**

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

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| 10520.00        | Peak     | H               | -                   | -                          | -69.80               | 12.55       | 0.00                            | 49.75                   | 68.20          | -18.45      |
| * 15780.00      | Average  | H               | -                   | -                          | -82.89               | 15.37       | 0.00                            | 39.48                   | 53.98          | -14.50      |
| * 15780.00      | Peak     | H               | -                   | -                          | -71.61               | 15.37       | 0.00                            | 50.76                   | 73.98          | -23.22      |
| * 21040.00      | Average  | H               | -                   | -                          | -71.18               | 7.92        | -9.54                           | 34.20                   | 53.98          | -19.78      |
| * 21040.00      | Peak     | H               | -                   | -                          | -60.81               | 7.92        | -9.54                           | 44.57                   | 73.98          | -29.41      |
| 26300.00        | Peak     | H               | -                   | -                          | -55.17               | 8.73        | -9.54                           | 51.02                   | 68.20          | -17.18      |

**Table 7-40. Radiated Measurements SISO ANT2**

|                                            |                                                                                                                                                                                                                     |                               |                                 |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------|
| FCC ID: ZNFQ910QM                          |  <b>MEASUREMENT REPORT (CERTIFICATION)</b>  |                               | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1806290137-06-R2.ZNF | Test Dates:<br>6/29 - 7/31/2018                                                                                                                                                                                     | EUT Type:<br>Portable Handset | Page 130 of 169                 |

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

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| 10560.00        | Peak     | H               | -                   | -                          | -69.19               | 13.19       | 0.00                            | 51.00                   | 68.20          | -17.20      |
| * 15840.00      | Average  | H               | -                   | -                          | -82.25               | 14.41       | 0.00                            | 39.16                   | 53.98          | -14.82      |
| * 15840.00      | Peak     | H               | -                   | -                          | -70.75               | 14.41       | 0.00                            | 50.66                   | 73.98          | -23.32      |
| * 21120.00      | Average  | H               | -                   | -                          | -70.64               | 7.96        | -9.54                           | 34.78                   | 53.98          | -19.20      |
| * 21120.00      | Peak     | H               | -                   | -                          | -60.44               | 7.96        | -9.54                           | 44.98                   | 73.98          | -29.00      |
| 26400.00        | Peak     | H               | -                   | -                          | -72.20               | 8.94        | -9.54                           | 34.20                   | 68.20          | -34.00      |

Table 7-41. Radiated Measurements SISO ANT2

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

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| * 10640.00      | Average  | H               | -                   | -                          | -81.62               | 13.66       | 0.00                            | 39.04                   | 53.98          | -14.94      |
| * 10640.00      | Peak     | H               | -                   | -                          | -69.72               | 13.66       | 0.00                            | 50.94                   | 73.98          | -23.04      |
| * 15960.00      | Average  | H               | -                   | -                          | -82.16               | 14.04       | 0.00                            | 38.88                   | 53.98          | -15.10      |
| * 15960.00      | Peak     | H               | -                   | -                          | -70.76               | 14.04       | 0.00                            | 50.28                   | 73.98          | -23.70      |
| * 21280.00      | Average  | H               | -                   | -                          | -70.16               | 8.04        | -9.54                           | 35.34                   | 53.98          | -18.64      |
| * 21280.00      | Peak     | H               | -                   | -                          | -59.83               | 8.04        | -9.54                           | 45.67                   | 73.98          | -28.31      |
| 26600.00        | Peak     | H               | -                   | -                          | -50.96               | -8.30       | -9.54                           | 38.19                   | 68.20          | -30.01      |

Table 7-42. Radiated Measurements SISO ANT2

|                                            |                                                                                                                                                                                                                     |                               |                                 |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------|
| FCC ID: ZNFQ910QM                          |  <b>MEASUREMENT REPORT (CERTIFICATION)</b>  |                               | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1806290137-06-R2.ZNF | Test Dates:<br>6/29 - 7/31/2018                                                                                                                                                                                     | EUT Type:<br>Portable Handset | Page 131 of 169                 |

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

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| * 11000.00      | Average  | H               | -                   | -                          | -81.51               | 13.05       | 0.00                            | 38.54                   | 53.98          | -15.44      |
| * 11000.00      | Peak     | H               | -                   | -                          | -69.65               | 13.05       | 0.00                            | 50.40                   | 73.98          | -23.58      |
| 16500.00        | Peak     | H               | -                   | -                          | -71.02               | 15.68       | 0.00                            | 51.66                   | 68.20          | -16.54      |
| 22000.00        | Peak     | H               | -                   | -                          | -59.35               | 8.43        | -9.54                           | 46.53                   | 68.20          | -21.67      |
| 27500.00        | Peak     | H               | -                   | -                          | -51.50               | -8.80       | -9.54                           | 37.16                   | 68.20          | -31.04      |

**Table 7-43. Radiated Measurements SISO ANT2**

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

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| * 11200.00      | Average  | H               | -                   | -                          | -81.43               | 13.26       | 0.00                            | 38.83                   | 53.98          | -15.15      |
| * 11200.00      | Peak     | H               | -                   | -                          | -69.77               | 13.26       | 0.00                            | 50.49                   | 73.98          | -23.49      |
| 16800.00        | Peak     | H               | -                   | -                          | -70.80               | 17.19       | 0.00                            | 53.39                   | 68.20          | -14.81      |
| * 22400.00      | Average  | H               | -                   | -                          | -70.59               | 8.11        | -9.54                           | 34.98                   | 53.98          | -19.00      |
| * 22400.00      | Peak     | H               | -                   | -                          | -60.51               | 8.11        | -9.54                           | 45.06                   | 73.98          | -28.92      |
| 28000.00        | Peak     | H               | -                   | -                          | -51.05               | -9.26       | -9.54                           | 37.15                   | 68.20          | -31.05      |

**Table 7-44. Radiated Measurements SISO ANT2**

|                                            |                                                                                                                                                                                                                     |                               |                                 |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------|
| FCC ID: ZNFQ910QM                          |  <b>MEASUREMENT REPORT (CERTIFICATION)</b>  |                               | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1806290137-06-R2.ZNF | Test Dates:<br>6/29 - 7/31/2018                                                                                                                                                                                     | EUT Type:<br>Portable Handset | Page 132 of 169                 |

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

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| * 11440.00      | Average  | H               | -                   | -                          | -81.80               | 13.76       | 0.00                            | 38.96                   | 53.98          | -15.02      |
| * 11440.00      | Peak     | H               | -                   | -                          | -69.78               | 13.76       | 0.00                            | 50.98                   | 73.98          | -23.00      |
| 17160.00        | Peak     | H               | -                   | -                          | -70.05               | 18.86       | 0.00                            | 55.81                   | 68.20          | -12.39      |
| * 22880.00      | Average  | H               | -                   | -                          | -71.59               | 8.28        | -9.54                           | 34.15                   | 53.98          | -19.83      |
| * 22880.00      | Peak     | H               | -                   | -                          | -61.02               | 8.28        | -9.54                           | 44.72                   | 73.98          | -29.26      |
| 28600.00        | Peak     | H               | -                   | -                          | -49.56               | -9.08       | -9.54                           | 38.82                   | 68.20          | -29.38      |

**Table 7-45. Radiated Measurements SISO ANT2**

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

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| * 11490.00      | Average  | H               | -                   | -                          | -81.75               | 14.60       | 0.00                            | 39.85                   | 53.98          | -14.12      |
| * 11490.00      | Peak     | H               | -                   | -                          | -70.08               | 14.60       | 0.00                            | 51.52                   | 73.98          | -22.45      |
| 17235.00        | Peak     | H               | -                   | -                          | -70.85               | 19.30       | 0.00                            | 55.45                   | 68.20          | -12.75      |
| * 22980.00      | Average  | H               | -                   | -                          | -71.32               | 8.16        | -9.54                           | 34.30                   | 53.98          | -19.68      |
| * 22980.00      | Peak     | H               | -                   | -                          | -60.74               | 8.16        | -9.54                           | 44.88                   | 73.98          | -29.10      |
| 28725.00        | Peak     | H               | -                   | -                          | -48.54               | -9.24       | -9.54                           | 39.68                   | 68.20          | -28.52      |

**Table 7-46. Radiated Measurements SISO ANT2**

|                                            |                                                                                                                                                                                                                     |                               |                                 |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------|
| FCC ID: ZNFQ910QM                          |  <b>MEASUREMENT REPORT (CERTIFICATION)</b>  |                               | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1806290137-06-R2.ZNF | Test Dates:<br>6/29 - 7/31/2018                                                                                                                                                                                     | EUT Type:<br>Portable Handset | Page 133 of 169                 |

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

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| * 11570.00      | Average  | H               | -                   | -                          | -81.63               | 14.18       | 0.00                            | 39.55                   | 53.98          | -14.43      |
| * 11570.00      | Peak     | H               | -                   | -                          | -70.01               | 14.18       | 0.00                            | 51.17                   | 73.98          | -22.81      |
| 17355.00        | Peak     | H               | -                   | -                          | -72.23               | 22.81       | 0.00                            | 57.58                   | 68.20          | -10.62      |
| 23140.00        | Peak     | H               | -                   | -                          | -60.66               | 8.37        | -9.54                           | 45.17                   | 68.20          | -23.03      |
| 28925.00        | Peak     | H               | -                   | -                          | -49.15               | -9.65       | -9.54                           | 38.66                   | 68.20          | -29.54      |

**Table 7-47. Radiated Measurements SISO ANT2**

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

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| * 11650.00      | Average  | H               | -                   | -                          | -81.63               | 14.26       | 0.00                            | 39.63                   | 53.98          | -14.35      |
| * 11650.00      | Peak     | H               | -                   | -                          | -69.45               | 14.26       | 0.00                            | 51.81                   | 73.98          | -22.17      |
| 17475.00        | Peak     | H               | -                   | -                          | -71.40               | 21.62       | 0.00                            | 57.22                   | 68.20          | -10.98      |
| 23300.00        | Peak     | H               | -                   | -                          | -59.59               | 8.50        | -9.54                           | 46.37                   | 68.20          | -21.83      |
| 29125.00        | Peak     | H               | -                   | -                          | -48.21               | -9.87       | -9.54                           | 39.38                   | 68.20          | -28.82      |

**Table 7-48. Radiated Measurements SISO ANT2**

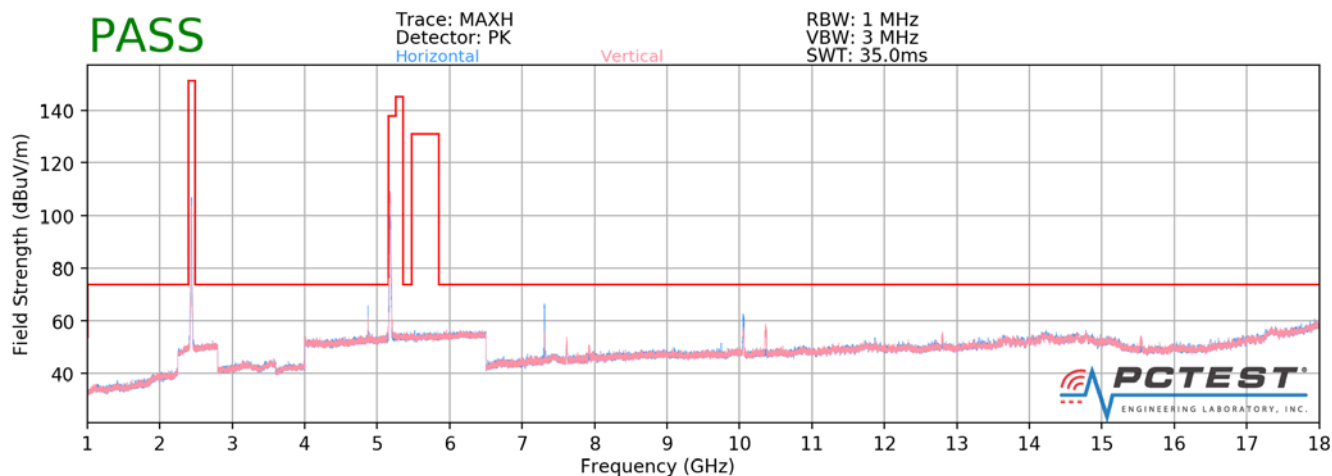
|                                            |                                                                                     |                                       |                                                                                       |                                 |
|--------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFQ910QM                          |  | MEASUREMENT REPORT<br>(CERTIFICATION) |  | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1806290137-06-R2.ZNF | Test Dates:<br>6/29 - 7/31/2018                                                     | EUT Type:<br>Portable Handset         |                                                                                       | Page 134 of 169                 |

### 7.6.3 Simultaneous Tx Radiated Spurious Emissions Measurements

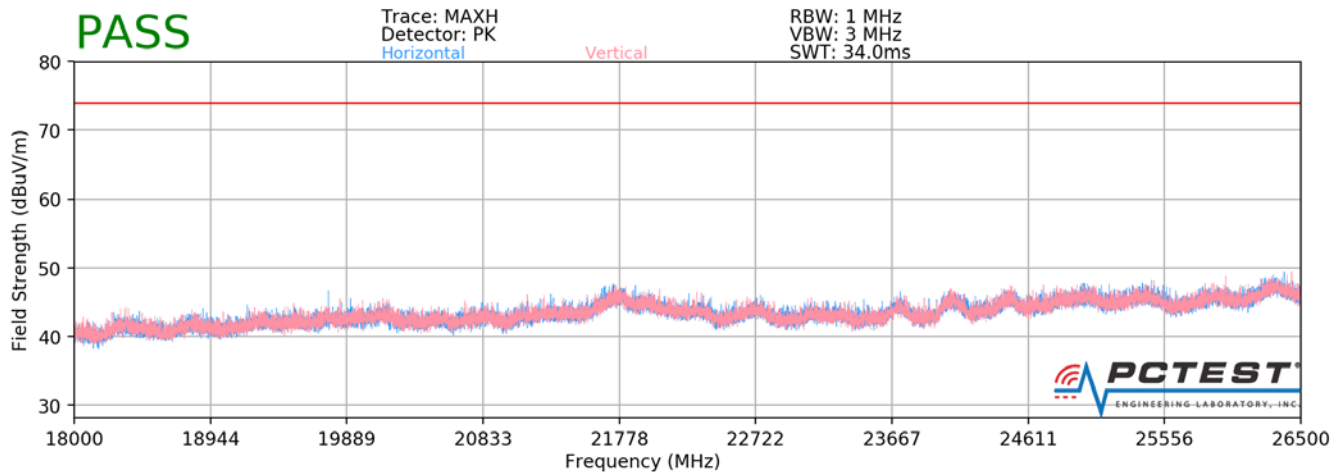
§15.407(b) §15.205 & §15.209; RSS-Gen [8.9]

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

Table 7-49. Simultaneous Transmission Config-1

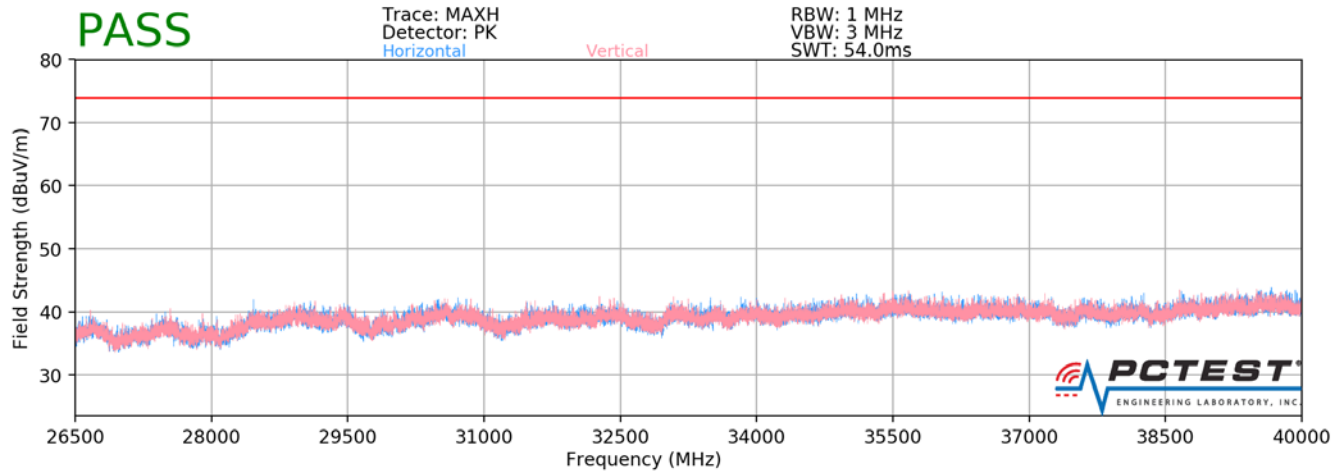


Plot 7-169. Radiated Spurious Plot above 1GHz (2.4GHz – 5GHz)



Plot 7-170. Radiated Spurious Plot 18GHz – 26.5GHz (2.4GHz – 5GHz)

|                                            |                                               |                                       |    |                                 |
|--------------------------------------------|-----------------------------------------------|---------------------------------------|----|---------------------------------|
| FCC ID: ZNFQ910QM                          | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | LG | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1806290137-06-R2-ZNF | Test Dates:<br>6/29 - 7/31/2018               | EUT Type:<br>Portable Handset         |    | Page 135 of 169                 |



Plot 7-171. Radiated Spurious Plot above 26.5GHz (2.4GHz – 5GHz)

|   | Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|---|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|----------------|-------------|
|   | 3049.00         | Peak     | H               | -                   | -                          | -65.28               | 0.34        | 42.06                   | 68.20          | -26.14      |
| * | 7311.00         | Average  | H               | 156                 | 1                          | -66.12               | 8.37        | 49.25                   | 53.98          | -4.73       |
| * | 7311.00         | Peak     | H               | 156                 | 1                          | -56.35               | 8.37        | 59.02                   | 73.98          | -14.96      |
|   | 7923.00         | Peak     | H               | -                   | -                          | -66.81               | 9.25        | 49.44                   | 68.20          | -18.76      |
|   | 8535.00         | Peak     | H               | -                   | -                          | -67.19               | 11.77       | 51.58                   | 68.20          | -16.62      |
| * | 10666.00        | Average  | H               | -                   | -                          | -79.45               | 13.25       | 40.80                   | 53.98          | -13.18      |
| * | 10666.00        | Peak     | H               | -                   | -                          | -68.20               | 13.25       | 52.05                   | 73.98          | -21.93      |
|   | 13409.00        | Peak     | H               | -                   | -                          | -69.07               | 15.99       | 53.92                   | 68.20          | -14.28      |
| * | 16152.00        | Average  | H               | -                   | -                          | -79.75               | 14.89       | 42.14                   | 53.98          | -11.84      |
| * | 16152.00        | Peak     | H               | -                   | -                          | -68.31               | 14.89       | 53.58                   | 73.98          | -20.40      |

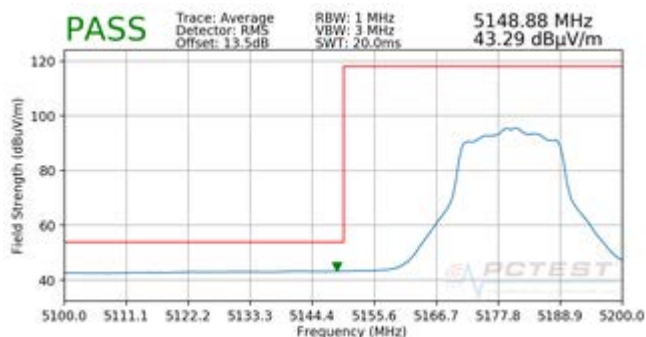
Table 7-50. Radiated Measurements (ANT1 2.4GHz – ANT2 5GHz)

|                                            |                                                                                     |                                       |                                                                                       |                                 |
|--------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFQ910QM                          |  | MEASUREMENT REPORT<br>(CERTIFICATION) |  | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1806290137-06-R2-ZNF | Test Dates:<br>6/29 - 7/31/2018                                                     | EUT Type:<br>Portable Handset         |                                                                                       | Page 136 of 169                 |

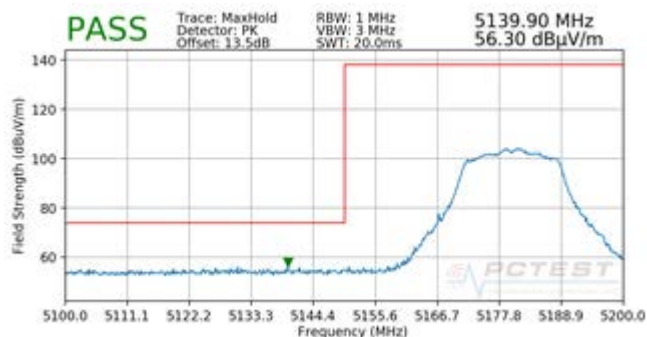
## 7.6.4 SISO Antenna-1 Radiated Band Edge Measurements (20MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]; RSS-Gen [8.9]

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

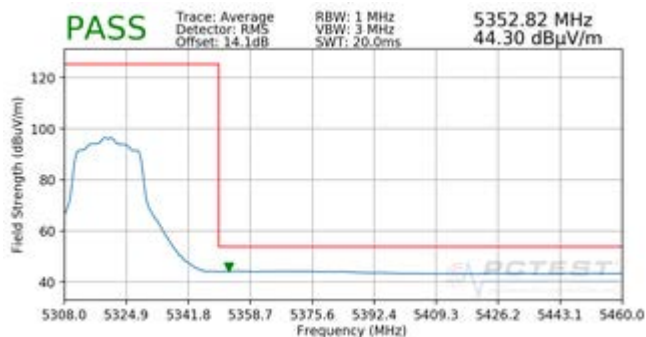


**Plot 7-172. Radiated Lower Band Edge Plot SISO ANT1 (Average - UNII Band 1)**

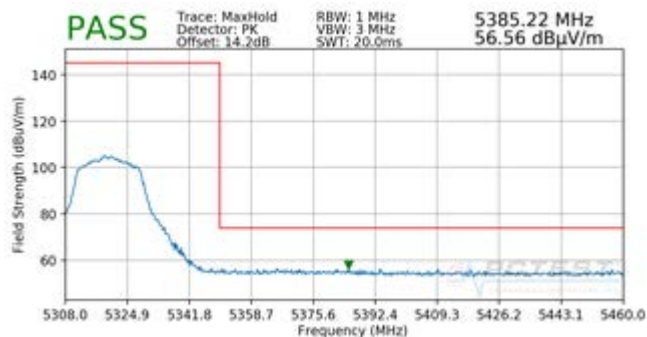


**Plot 7-173. Radiated Lower Band Edge Plot SISO ANT1 (Peak - UNII Band 1)**

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



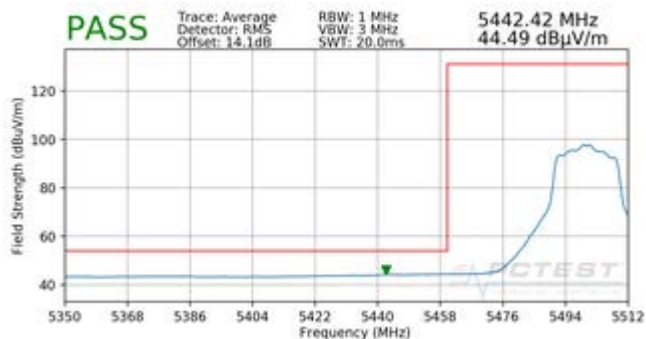
**Plot 7-174. Radiated Upper Band Edge Plot SISO ANT1 (Average - UNII Band 2A)**



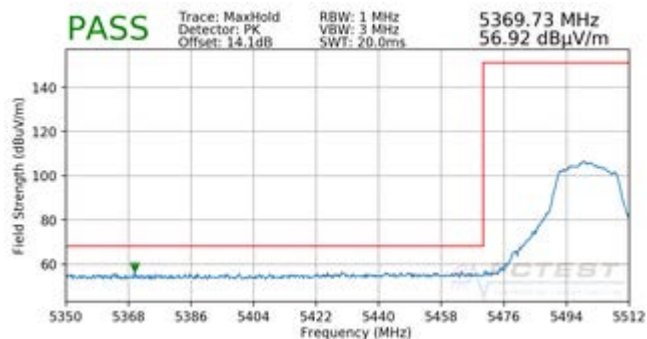
**Plot 7-175. Radiated Upper Band Edge Plot SISO ANT1 (Peak - UNII Band 2A)**

|                                            |                                               |                                       |    |                                 |
|--------------------------------------------|-----------------------------------------------|---------------------------------------|----|---------------------------------|
| FCC ID: ZNFQ910QM                          | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | LG | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1806290137-06-R2-ZNF | Test Dates:<br>6/29 - 7/31/2018               | EUT Type:<br>Portable Handset         |    | Page 137 of 169                 |

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

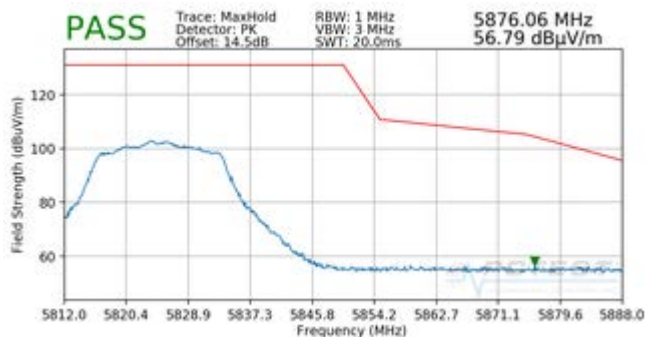


**Plot 7-176. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 2C)**



**Plot 7-177. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 2C)**

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



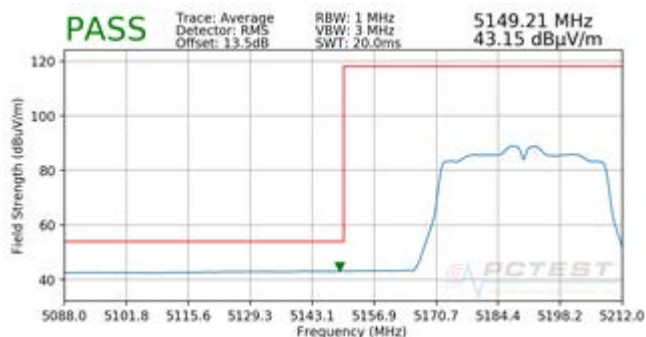
**Plot 7-178. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 3)**

|                                            |                                               |                                       |    |                                 |
|--------------------------------------------|-----------------------------------------------|---------------------------------------|----|---------------------------------|
| FCC ID: ZNFQ910QM                          | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | LG | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1806290137-06-R2.ZNF | Test Dates:<br>6/29 - 7/31/2018               | EUT Type:<br>Portable Handset         |    | Page 138 of 169                 |

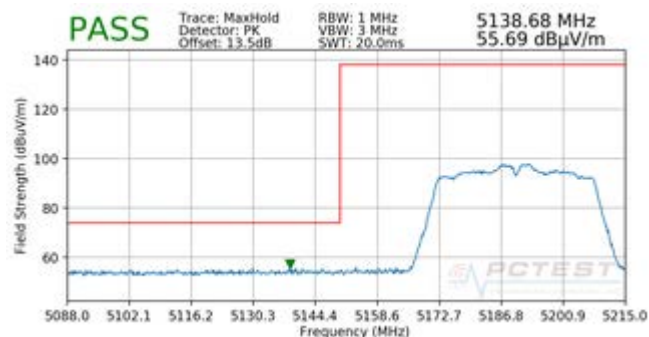
## 7.6.5 SISO Antenna-1 Radiated Band Edge Measurements (40MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

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

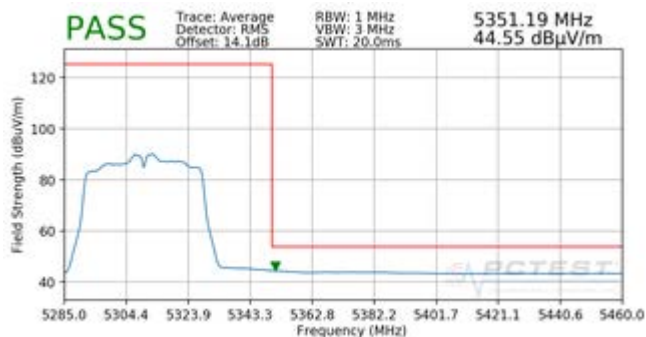


**Plot 7-179. Radiated Lower Band Edge Plot SISO ANT1 (Average - UNII Band 1)**

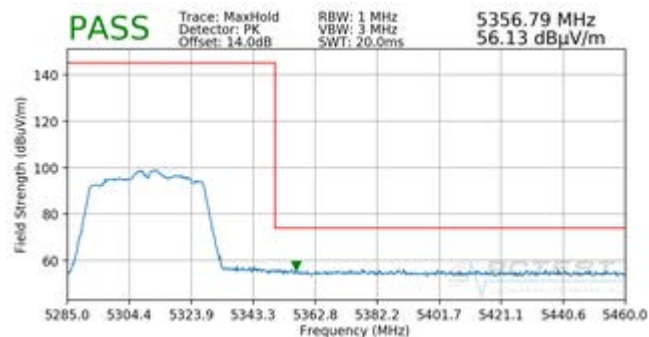


**Plot 7-180. Radiated Lower Band Edge Plot SISO ANT1 (Peak - UNII Band 1)**

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



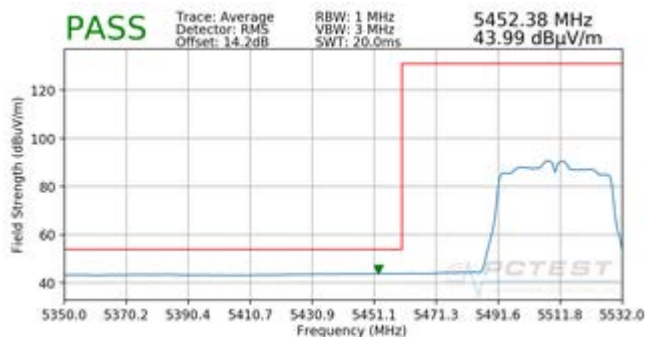
**Plot 7-181. Radiated Upper Band Edge Plot SISO ANT1 (Average - UNII Band 2A)**



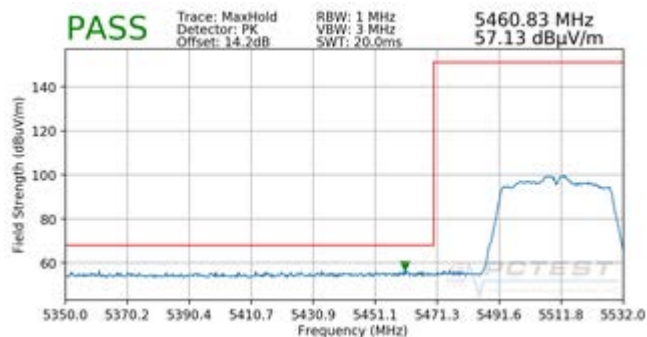
**Plot 7-182. Radiated Upper Band Edge Plot SISO ANT1 (Peak - UNII Band 2A)**

|                                            |                                               |                                       |    |                                 |
|--------------------------------------------|-----------------------------------------------|---------------------------------------|----|---------------------------------|
| FCC ID: ZNFQ910QM                          | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | LG | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1806290137-06-R2-ZNF | Test Dates:<br>6/29 - 7/31/2018               | EUT Type:<br>Portable Handset         |    | Page 139 of 169                 |

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

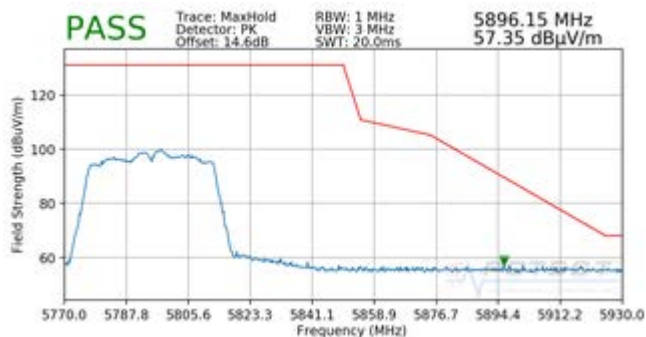


**Plot 7-183. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 2C)**



**Plot 7-184. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 2C)**

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



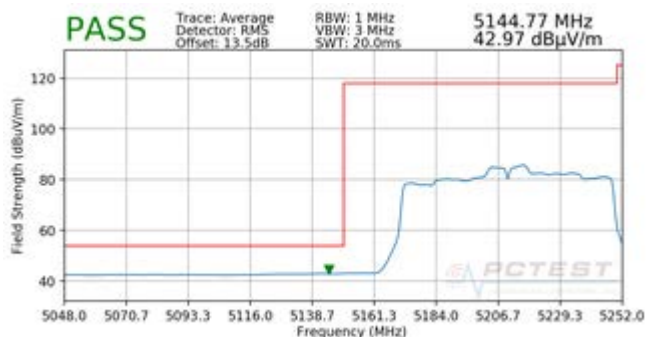
**Plot 7-185. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 3)**

|                                            |                                               |                                       |  |                                 |
|--------------------------------------------|-----------------------------------------------|---------------------------------------|--|---------------------------------|
| FCC ID: ZNFQ910QM                          | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) |  | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1806290137-06-R2-ZNF | Test Dates:<br>6/29 - 7/31/2018               | EUT Type:<br>Portable Handset         |  | Page 140 of 169                 |

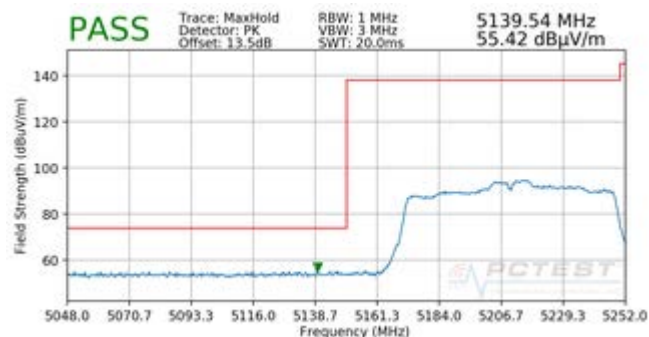
## 7.6.6 SISO Antenna-1 Radiated Band Edge Measurements (80MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

|                           |          |
|---------------------------|----------|
| Worst Case Mode:          | 802.11ac |
| Worst Case Transfer Rate: | MCS0     |
| Distance of Measurements: | 3 Meters |
| Operating Frequency:      | 5210MHz  |
| Channel:                  | 42       |

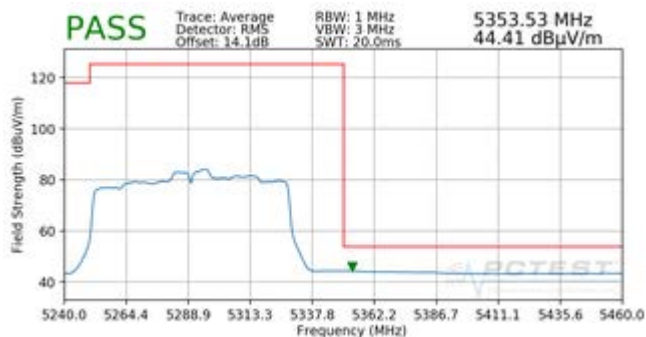


**Plot 7-186. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1)**

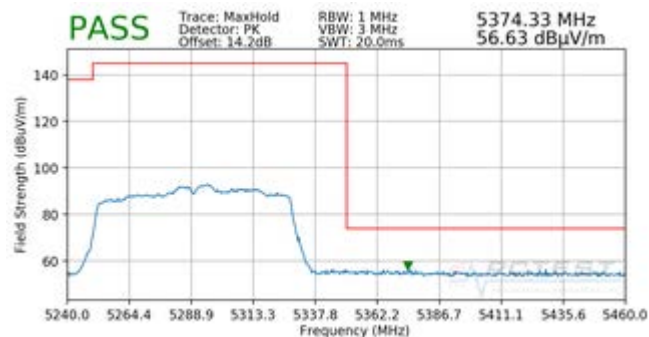


**Plot 7-187. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1)**

|                           |          |
|---------------------------|----------|
| Worst Case Mode:          | 802.11ac |
| Worst Case Transfer Rate: | MCS0     |
| Distance of Measurements: | 3 Meters |
| Operating Frequency:      | 5290MHz  |
| Channel:                  | 58       |



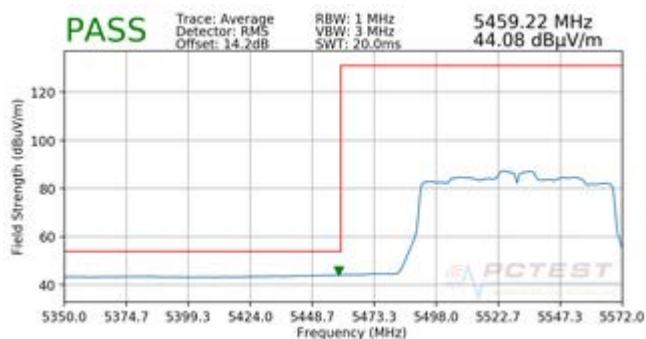
**Plot 7-188. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2A)**



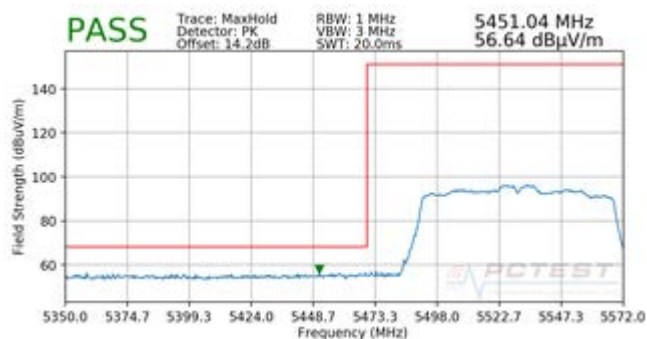
**Plot 7-189. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 2A)**

|                                            |                                               |                                       |           |                                 |
|--------------------------------------------|-----------------------------------------------|---------------------------------------|-----------|---------------------------------|
| FCC ID: ZNFQ910QM                          | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | <b>LG</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1806290137-06-R2-ZNF | Test Dates:<br>6/29 - 7/31/2018               | EUT Type:<br>Portable Handset         |           | Page 141 of 169                 |

Worst Case Mode: 802.11ac  
Worst Case Transfer Rate: MCS0  
Distance of Measurements: 3 Meters  
Operating Frequency: 5530MHz  
Channel: 106

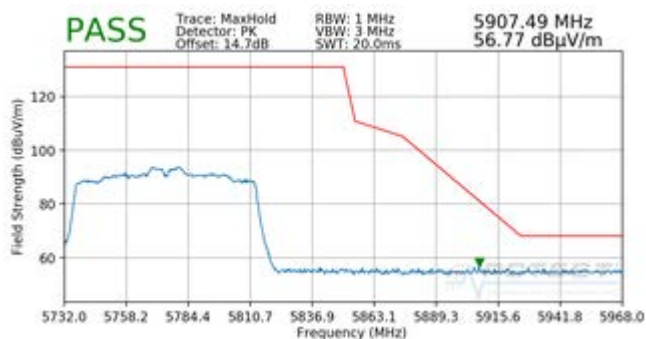


**Plot 7-190. Radiated Lower Band Edge Plot SISO ANT1 (Average - UNII Band 2C)**



**Plot 7-191. Radiated Lower Band Edge Plot SISO ANT1 (Peak - UNII Band 2C)**

Worst Case Mode: 802.11ac  
Worst Case Transfer Rate: MCS0  
Distance of Measurements: 3 Meters  
Operating Frequency: 5775MHz  
Channel: 155



**Plot 7-192. Radiated Upper Band Edge Plot SISO ANT1 (Peak - UNII Band 3)**

|                                            |                                               |                                       |           |                                 |
|--------------------------------------------|-----------------------------------------------|---------------------------------------|-----------|---------------------------------|
| FCC ID: ZNFQ910QM                          | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | <b>LG</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1806290137-06-R2-ZNF | Test Dates:<br>6/29 - 7/31/2018               | EUT Type:<br>Portable Handset         |           | Page 142 of 169                 |

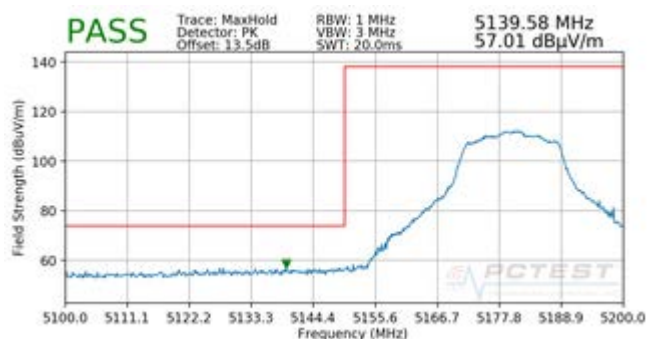
## 7.6.7 SISO Antenna-2 Radiated Band Edge Measurements (20MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

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

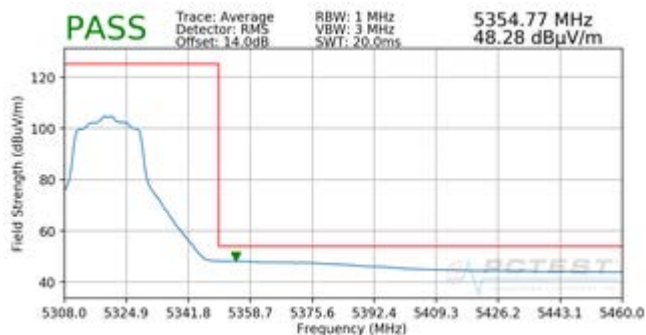


**Plot 7-193. Radiated Lower Band Edge Plot SISO ANT2 (Average - UNII Band 1)**

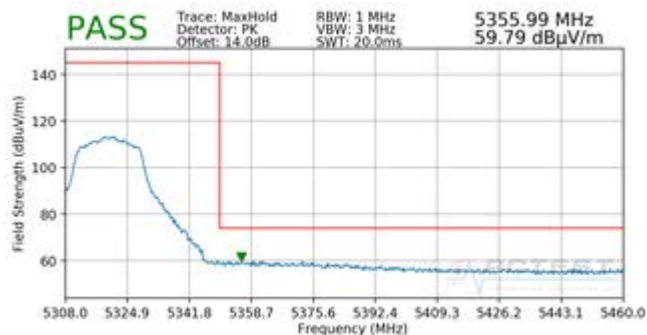


**Plot 7-194. Radiated Lower Band Edge Plot SISO ANT2 (Peak - UNII Band 1)**

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



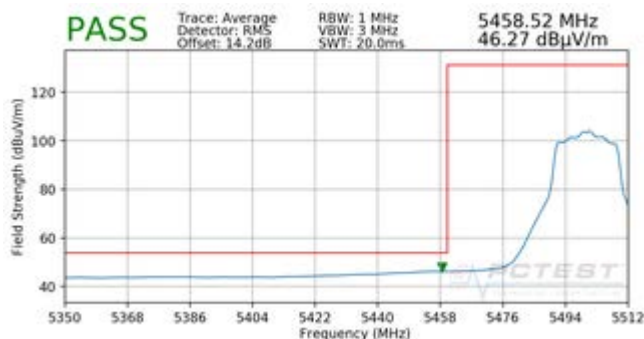
**Plot 7-195. Radiated Upper Band Edge Plot SISO ANT2 (Average - UNII Band 2A)**



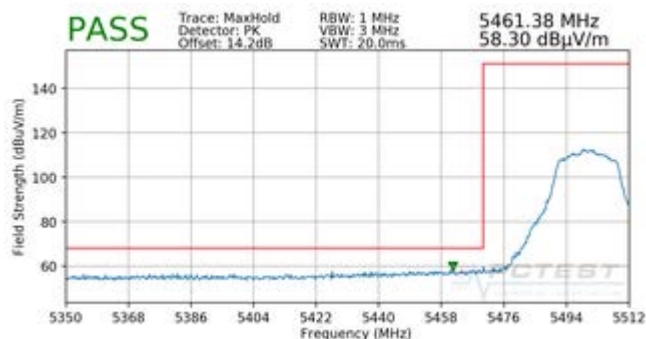
**Plot 7-196. Radiated Upper Band Edge Plot SISO ANT2 (Peak - UNII Band 2A)**

|                                            |                                               |                                       |           |                                 |
|--------------------------------------------|-----------------------------------------------|---------------------------------------|-----------|---------------------------------|
| FCC ID: ZNFQ910QM                          | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | <b>LG</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1806290137-06-R2-ZNF | Test Dates:<br>6/29 - 7/31/2018               | EUT Type:<br>Portable Handset         |           | Page 143 of 169                 |

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

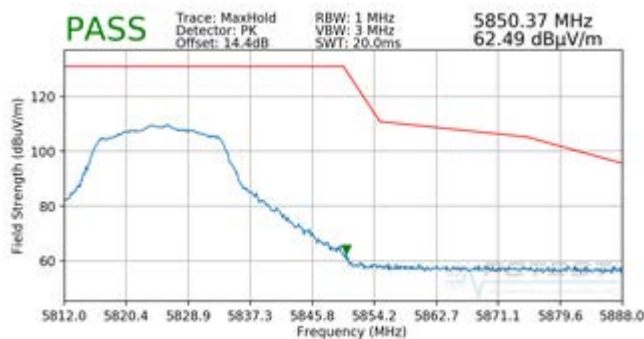


**Plot 7-197. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 2C)**



**Plot 7-198. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 2C)**

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



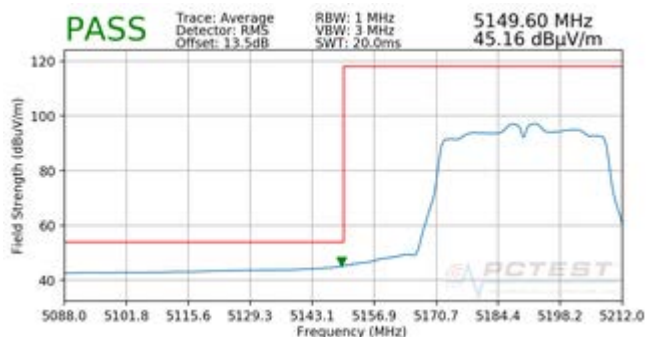
**Plot 7-199. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 3)**

|                                            |                                                                                                                                  |                               |                                                                                       |                                 |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFQ910QM                          |  <b>MEASUREMENT REPORT</b><br>(CERTIFICATION) |                               |  | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1806290137-06-R2-ZNF | Test Dates:<br>6/29 - 7/31/2018                                                                                                  | EUT Type:<br>Portable Handset |                                                                                       | Page 144 of 169                 |

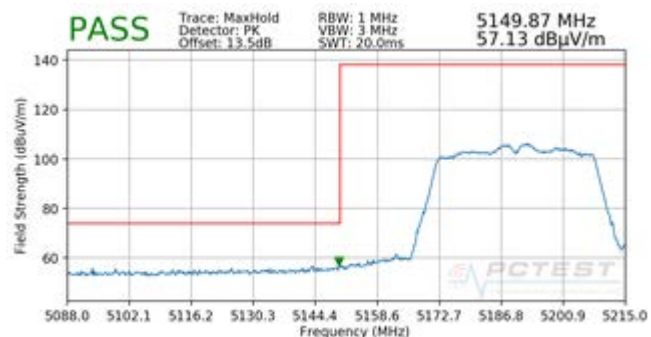
## 7.6.8 SISO Antenna-2 Radiated Band Edge Measurements (40MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

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

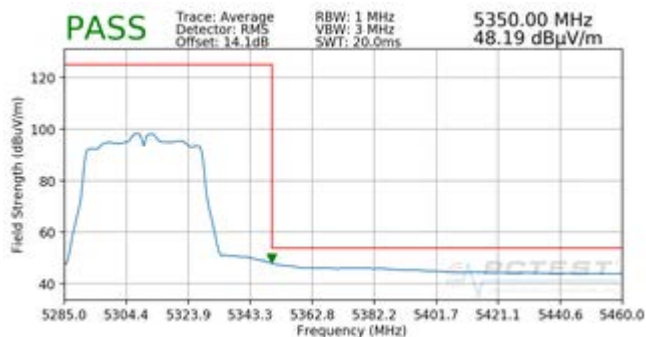


**Plot 7-200. Radiated Lower Band Edge Plot SISO ANT2 (Average - UNII Band 1)**

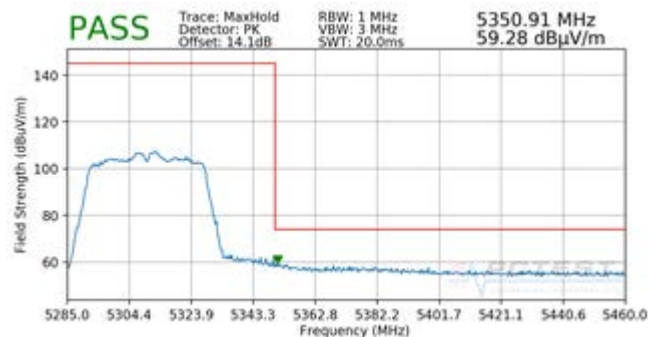


**Plot 7-201. Radiated Lower Band Edge Plot SISO ANT2 (Peak - UNII Band 1)**

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



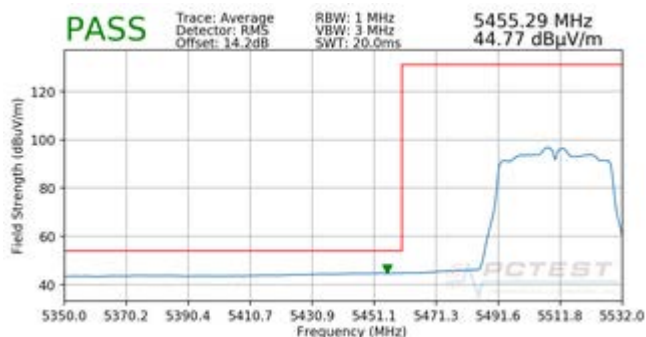
**Plot 7-202. Radiated Upper Band Edge Plot SISO ANT2 (Average - UNII Band 2A)**



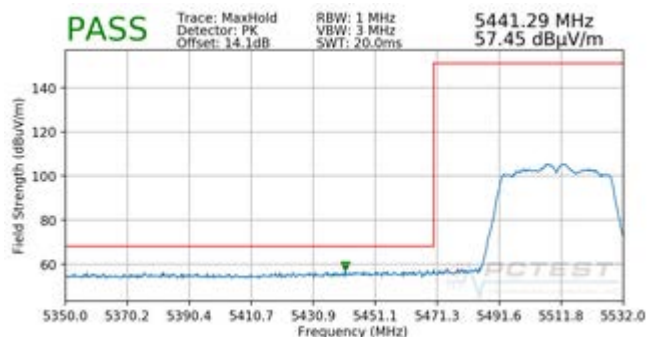
**Plot 7-203. Radiated Upper Band Edge Plot SISO ANT2 (Peak - UNII Band 2A)**

|                                            |                                               |                                       |    |                                 |
|--------------------------------------------|-----------------------------------------------|---------------------------------------|----|---------------------------------|
| FCC ID: ZNFQ910QM                          | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | LG | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1806290137-06-R2-ZNF | Test Dates:<br>6/29 - 7/31/2018               | EUT Type:<br>Portable Handset         |    | Page 145 of 169                 |

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

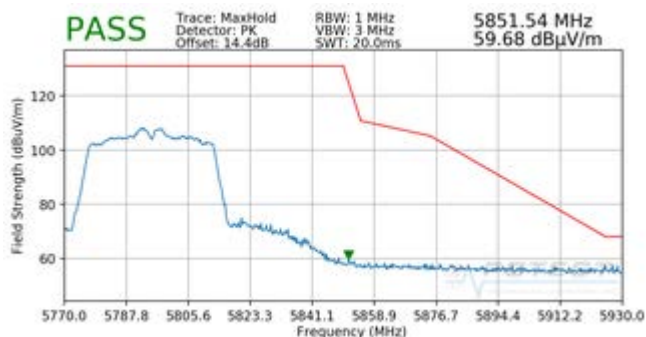


**Plot 7-204. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 2C)**



**Plot 7-205. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 2C)**

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



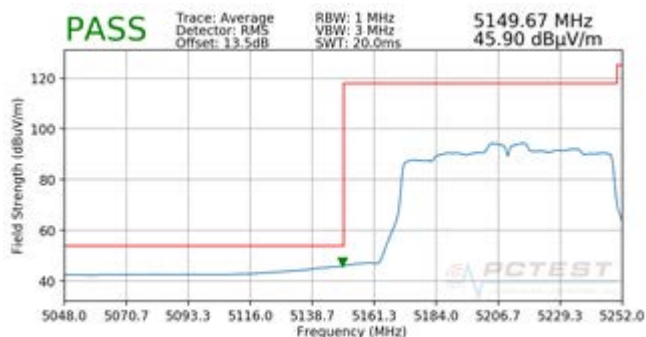
**Plot 7-206. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 3)**

|                                            |                                               |                                       |    |                                 |
|--------------------------------------------|-----------------------------------------------|---------------------------------------|----|---------------------------------|
| FCC ID: ZNFQ910QM                          | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | LG | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1806290137-06-R2-ZNF | Test Dates:<br>6/29 - 7/31/2018               | EUT Type:<br>Portable Handset         |    | Page 146 of 169                 |

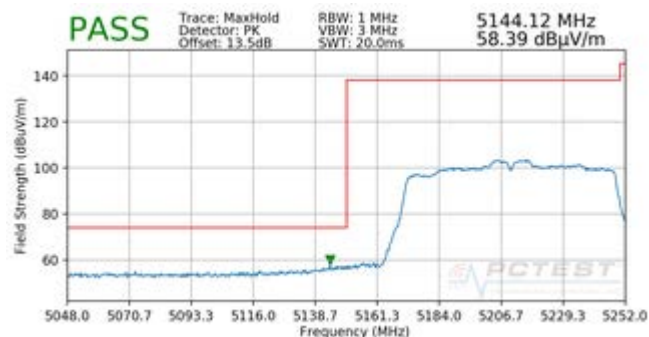
## 7.6.9 SISO Antenna-2 Radiated Band Edge Measurements (80MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

|                           |          |
|---------------------------|----------|
| Worst Case Mode:          | 802.11ac |
| Worst Case Transfer Rate: | MCS0     |
| Distance of Measurements: | 3 Meters |
| Operating Frequency:      | 5210MHz  |
| Channel:                  | 42       |

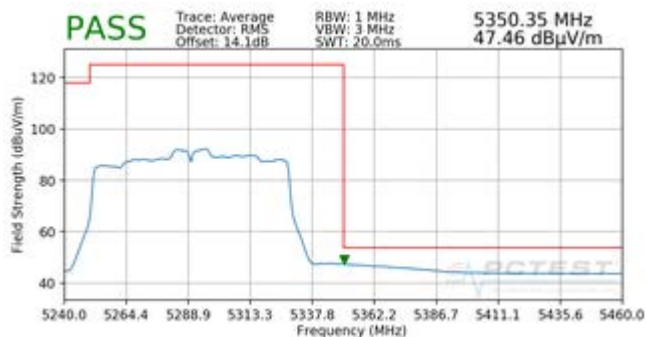


**Plot 7-207. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 1)**

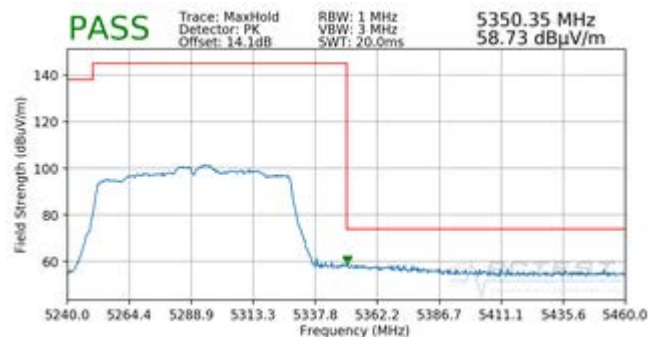


**Plot 7-208. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 1)**

|                           |          |
|---------------------------|----------|
| Worst Case Mode:          | 802.11ac |
| Worst Case Transfer Rate: | MCS0     |
| Distance of Measurements: | 3 Meters |
| Operating Frequency:      | 5290MHz  |
| Channel:                  | 58       |



**Plot 7-209. Radiated Upper Band Edge Plot SISO ANT2 (Average – UNII Band 2A)**



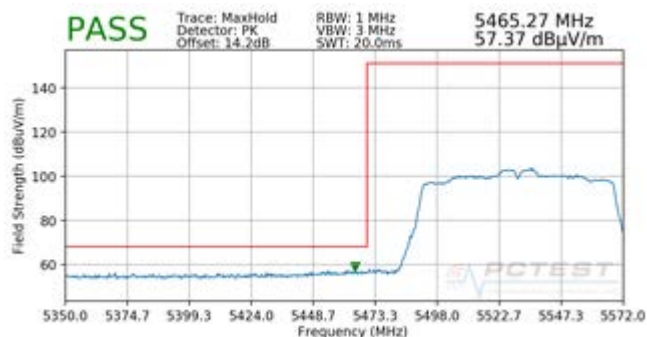
**Plot 7-210. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 2A)**

|                                            |                                               |                                       |           |                                 |
|--------------------------------------------|-----------------------------------------------|---------------------------------------|-----------|---------------------------------|
| FCC ID: ZNFQ910QM                          | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | <b>LG</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1806290137-06-R2-ZNF | Test Dates:<br>6/29 - 7/31/2018               | EUT Type:<br>Portable Handset         |           | Page 147 of 169                 |

|                           |          |
|---------------------------|----------|
| Worst Case Mode:          | 802.11ac |
| Worst Case Transfer Rate: | MCS0     |
| Distance of Measurements: | 3 Meters |
| Operating Frequency:      | 5530MHz  |
| Channel:                  | 106      |

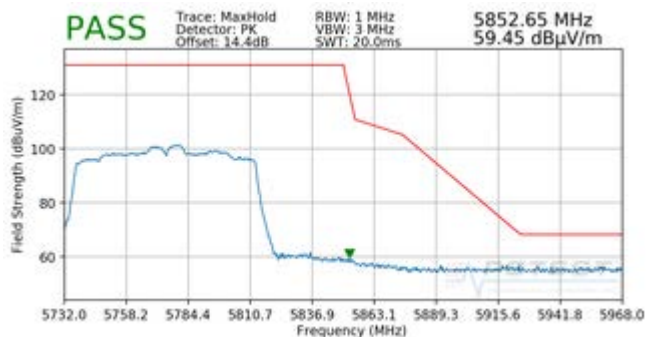


**Plot 7-211. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 2C)**



**Plot 7-212. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 2C)**

|                           |          |
|---------------------------|----------|
| Worst Case Mode:          | 802.11ac |
| Worst Case Transfer Rate: | MCS0     |
| Distance of Measurements: | 3 Meters |
| Operating Frequency:      | 5775MHz  |
| Channel:                  | 155      |



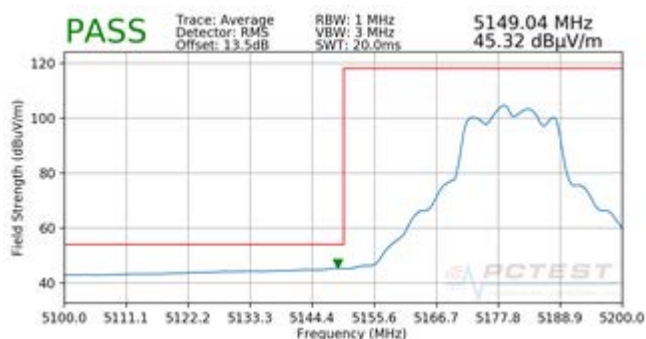
**Plot 7-213. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 3)**

|                                            |                                                                                                                                  |                               |                                                                                       |                                        |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: ZNFQ910QM                          |  <b>MEASUREMENT REPORT</b><br>(CERTIFICATION) |                               |  | <b>Approved by:</b><br>Quality Manager |
| Test Report S/N:<br>1M1806290137-06-R2-ZNF | Test Dates:<br>6/29 - 7/31/2018                                                                                                  | EUT Type:<br>Portable Handset |                                                                                       | Page 148 of 169                        |

## 7.6.10 CDD Radiated Band Edge Measurements (20MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

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

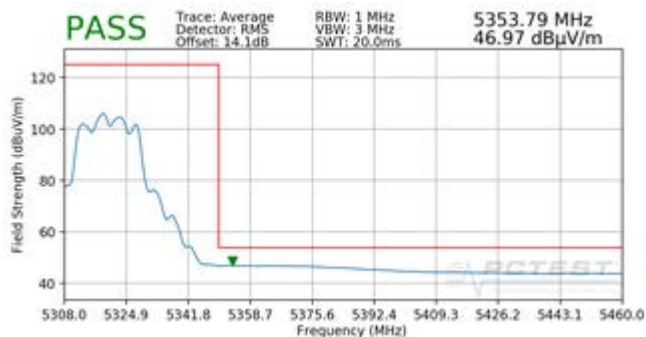


**Plot 7-214. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1)**

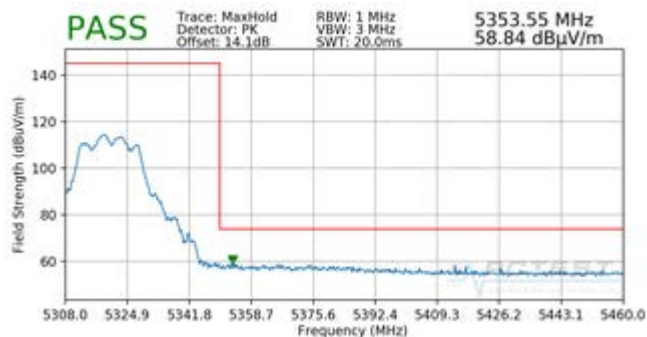


**Plot 7-215. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)**

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



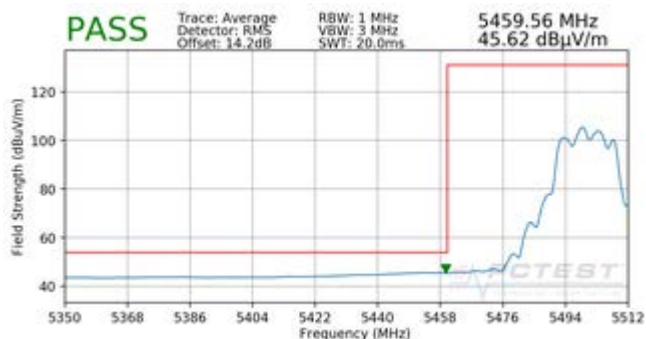
**Plot 7-216. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A)**



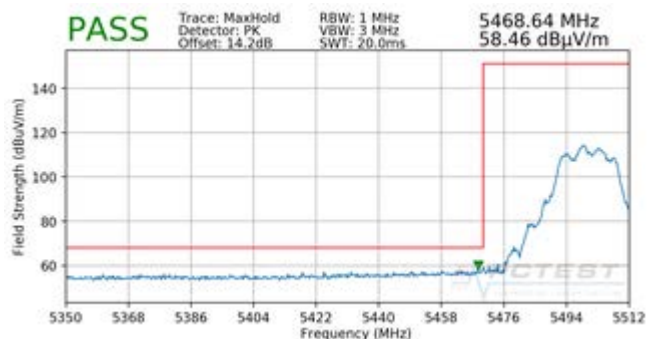
**Plot 7-217. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A)**

|                                            |                                               |                                       |  |                                 |
|--------------------------------------------|-----------------------------------------------|---------------------------------------|--|---------------------------------|
| FCC ID: ZNFQ910QM                          | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) |  | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1806290137-06-R2-ZNF | Test Dates:<br>6/29 - 7/31/2018               | EUT Type:<br>Portable Handset         |  | Page 149 of 169                 |

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

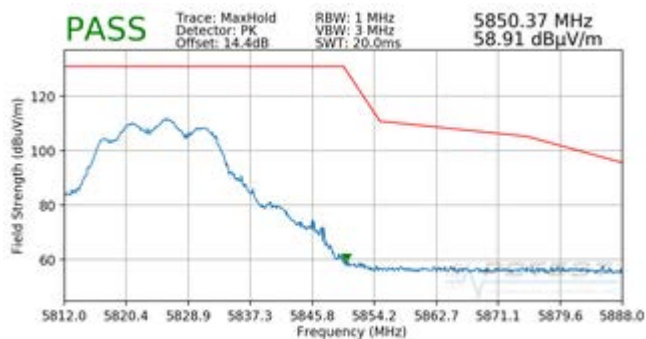


**Plot 7-218. Radiated Lower Band Edge Plot MIMO  
(Average – UNII Band 2C)**



**Plot 7-219. Radiated Lower Band Edge Plot MIMO  
(Peak – UNII Band 2C)**

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



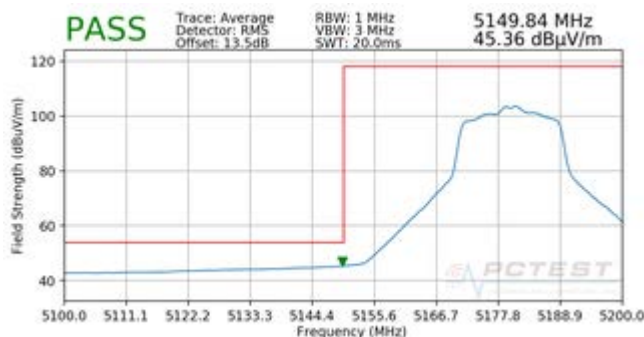
**Plot 7-220. Radiated Upper Band Edge Plot MIMO  
(Peak – UNII Band 3)**

|                                            |                                                                                                                                                                                                                         |                               |                                 |
|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------|
| FCC ID: ZNFQ910QM                          |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b>  |                               | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1806290137-06-R2-ZNF | Test Dates:<br>6/29 - 7/31/2018                                                                                                                                                                                         | EUT Type:<br>Portable Handset | Page 150 of 169                 |

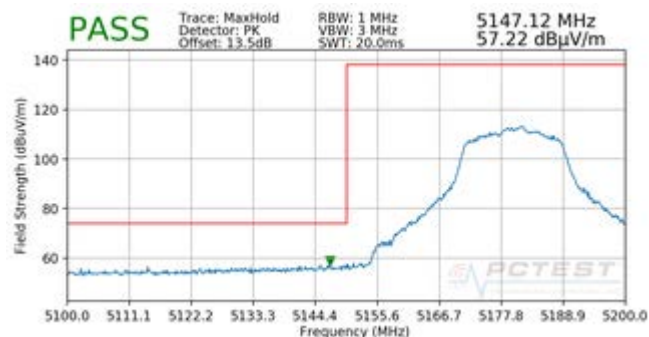
## 7.6.11 MIMO Radiated Band Edge Measurements (20MHz BW)

\$15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

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

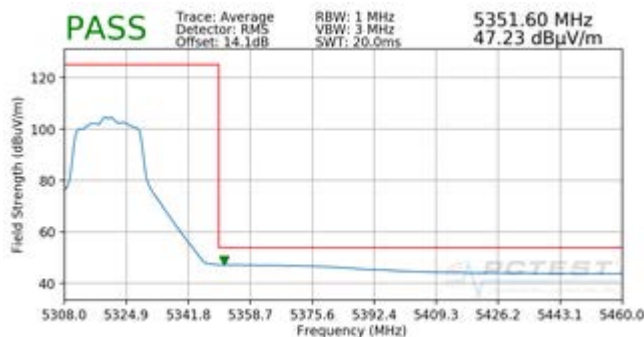


**Plot 7-221. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1)**

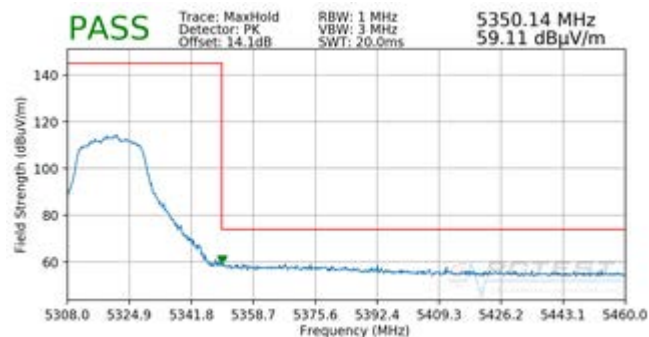


**Plot 7-222. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)**

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



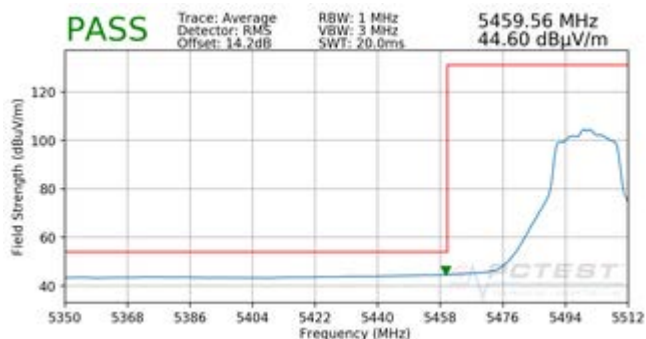
**Plot 7-223. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A)**



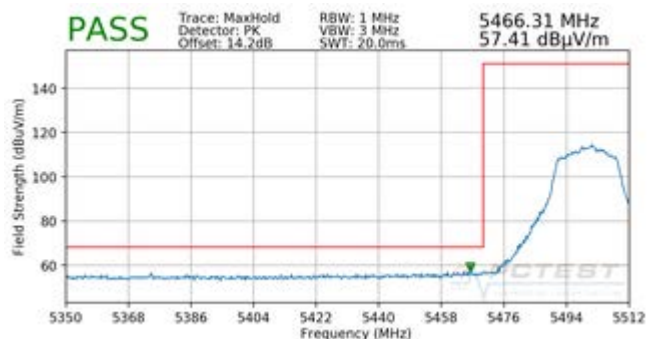
**Plot 7-224. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A)**

|                                            |                                               |                                       |    |                                 |
|--------------------------------------------|-----------------------------------------------|---------------------------------------|----|---------------------------------|
| FCC ID: ZNFQ910QM                          | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | LG | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1806290137-06-R2-ZNF | Test Dates:<br>6/29 - 7/31/2018               | EUT Type:<br>Portable Handset         |    | Page 151 of 169                 |

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

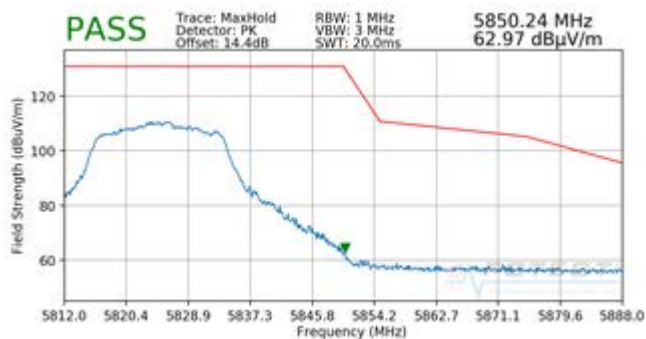


**Plot 7-225. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C)**



**Plot 7-226. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C)**

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



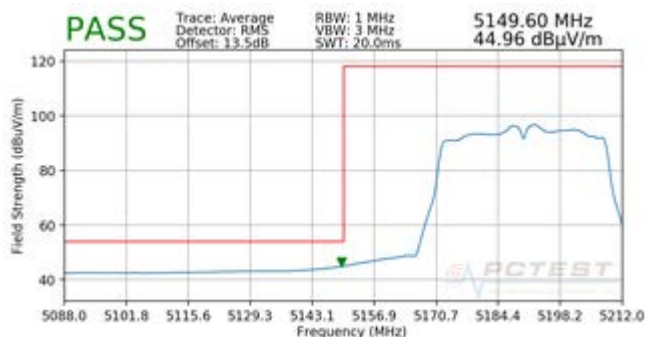
**Plot 7-227. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3)**

|                                            |                                               |                                       |  |                                 |
|--------------------------------------------|-----------------------------------------------|---------------------------------------|--|---------------------------------|
| FCC ID: ZNFQ910QM                          | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) |  | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1806290137-06-R2-ZNF | Test Dates:<br>6/29 - 7/31/2018               | EUT Type:<br>Portable Handset         |  | Page 152 of 169                 |

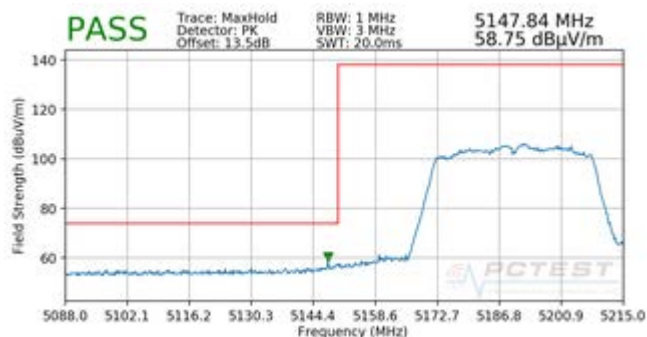
## 7.6.12 MIMO Radiated Band Edge Measurements (40MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

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

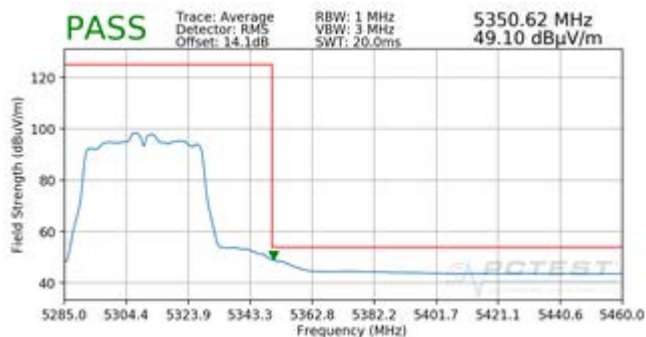


**Plot 7-228. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1)**

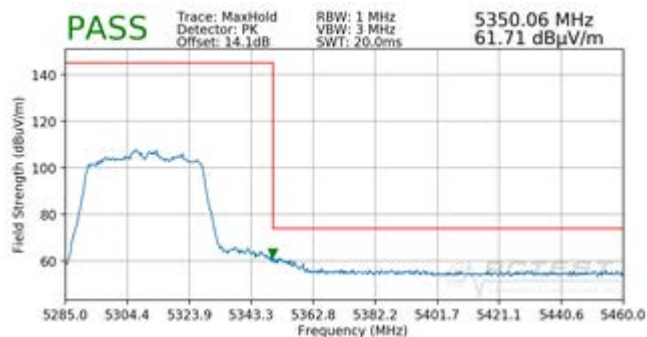


**Plot 7-229. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)**

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



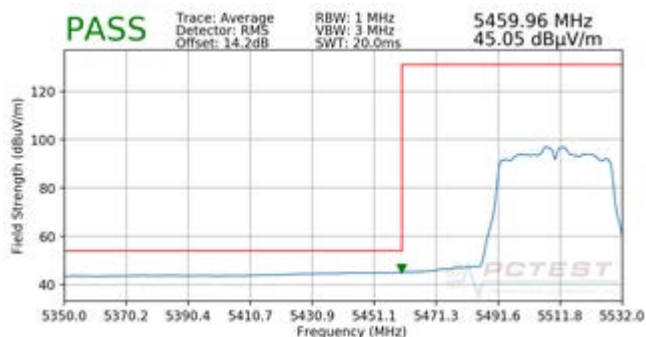
**Plot 7-230. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A)**



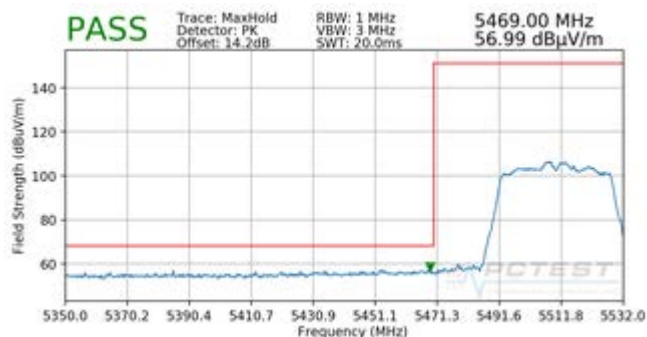
**Plot 7-231. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A)**

|                                            |                                               |                                       |           |                                 |
|--------------------------------------------|-----------------------------------------------|---------------------------------------|-----------|---------------------------------|
| FCC ID: ZNFQ910QM                          | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | <b>LG</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1806290137-06-R2-ZNF | Test Dates:<br>6/29 - 7/31/2018               | EUT Type:<br>Portable Handset         |           | Page 153 of 169                 |

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

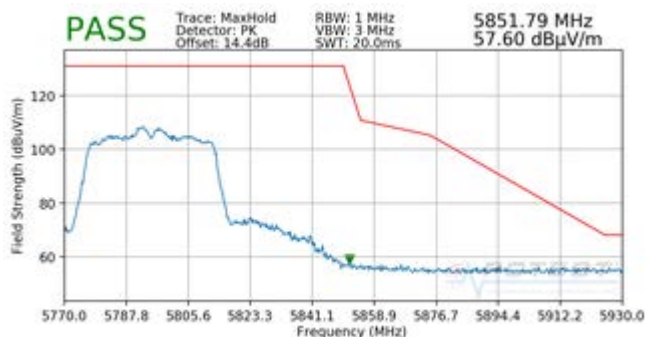


**Plot 7-232. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C)**



**Plot 7-233. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C)**

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



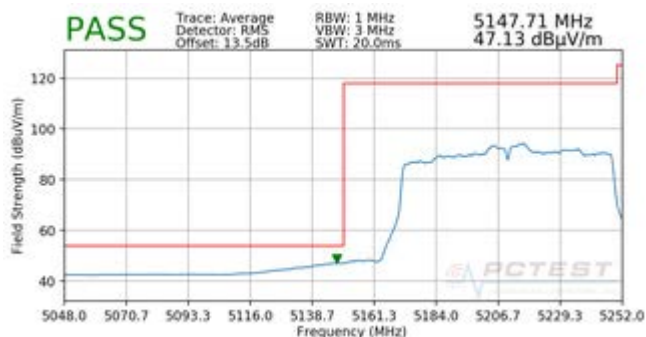
**Plot 7-234. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3)**

|                                            |                                                                                                                                                                                                                     |                               |                                 |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------|
| FCC ID: ZNFQ910QM                          |  <b>MEASUREMENT REPORT (CERTIFICATION)</b>  |                               | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1806290137-06-R2-ZNF | Test Dates:<br>6/29 - 7/31/2018                                                                                                                                                                                     | EUT Type:<br>Portable Handset | Page 154 of 169                 |

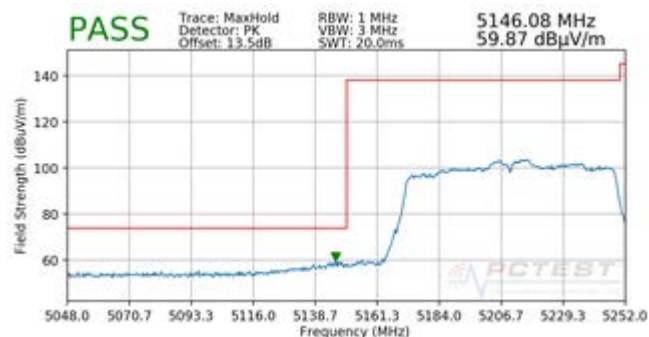
### 7.6.13 MIMO Radiated Band Edge Measurements (80MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

|                           |          |
|---------------------------|----------|
| Worst Case Mode:          | 802.11ac |
| Worst Case Transfer Rate: | MCS0     |
| Distance of Measurements: | 3 Meters |
| Operating Frequency:      | 5210MHz  |
| Channel:                  | 42       |

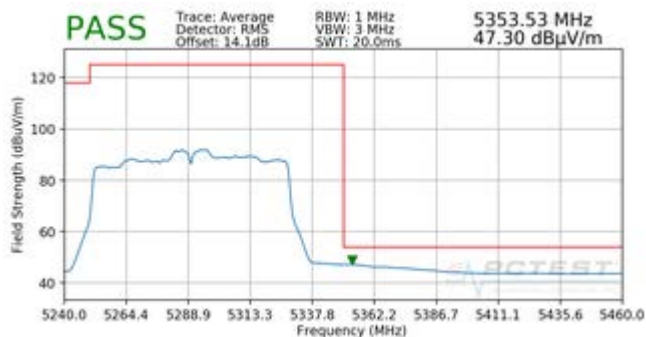


**Plot 7-235. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1)**

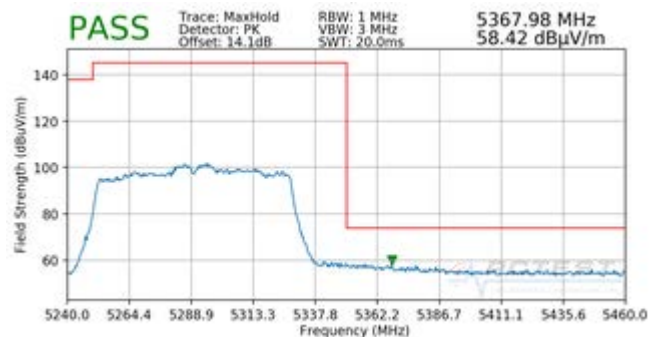


**Plot 7-236. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)**

|                           |          |
|---------------------------|----------|
| Worst Case Mode:          | 802.11ac |
| Worst Case Transfer Rate: | MCS0     |
| Distance of Measurements: | 3 Meters |
| Operating Frequency:      | 5290MHz  |
| Channel:                  | 58       |



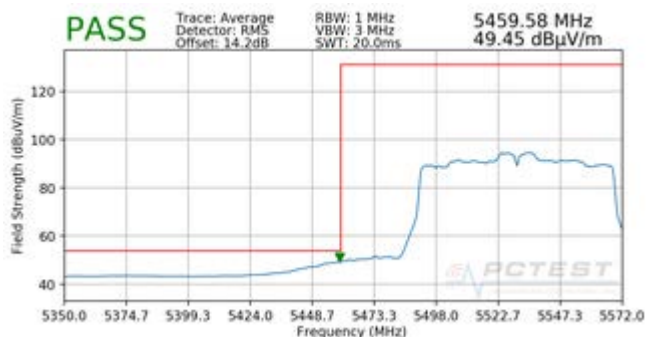
**Plot 7-237. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A)**



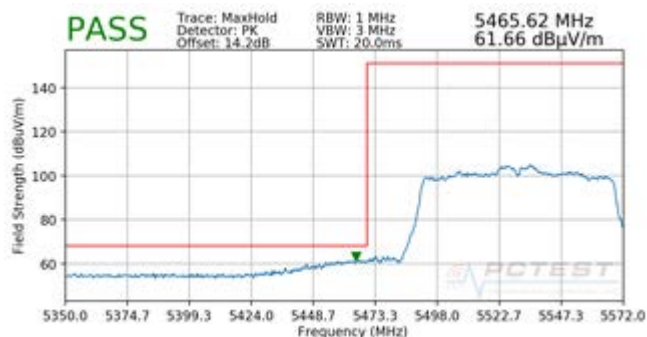
**Plot 7-238. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A)**

|                                            |                                               |                                       |           |                                 |
|--------------------------------------------|-----------------------------------------------|---------------------------------------|-----------|---------------------------------|
| FCC ID: ZNFQ910QM                          | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | <b>LG</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1806290137-06-R2-ZNF | Test Dates:<br>6/29 - 7/31/2018               | EUT Type:<br>Portable Handset         |           | Page 155 of 169                 |

|                           |          |
|---------------------------|----------|
| Worst Case Mode:          | 802.11ac |
| Worst Case Transfer Rate: | MCS0     |
| Distance of Measurements: | 3 Meters |
| Operating Frequency:      | 5530MHz  |
| Channel:                  | 106      |

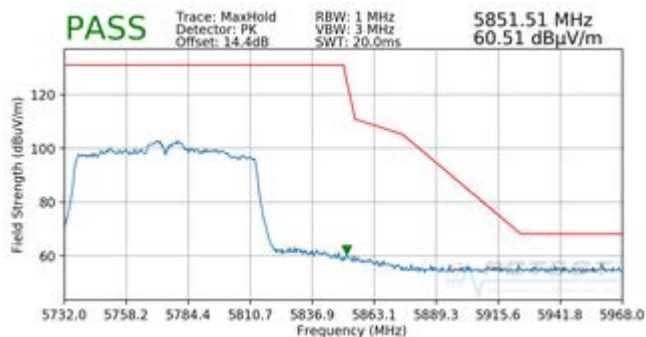


**Plot 7-239. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C)**



**Plot 7-240. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C)**

|                           |          |
|---------------------------|----------|
| Worst Case Mode:          | 802.11ac |
| Worst Case Transfer Rate: | MCS0     |
| Distance of Measurements: | 3 Meters |
| Operating Frequency:      | 5775MHz  |
| Channel:                  | 155      |



**Plot 7-241. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3)**

|                                            |                                                                                                                                                                                                                     |                               |                                 |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------|
| FCC ID: ZNFQ910QM                          |  <b>MEASUREMENT REPORT (CERTIFICATION)</b>  |                               | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1806290137-06-R2-ZNF | Test Dates:<br>6/29 - 7/31/2018                                                                                                                                                                                     | EUT Type:<br>Portable Handset | Page 156 of 169                 |

## 7.7 Radiated Spurious Emissions Measurements – Below 1GHz

§15.209; RSS-Gen [8.9]

### Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

***All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 6 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-51 per Section 15.209 and RSS-Gen (8.9).***

| Frequency         | Field Strength<br>[μV/m] | Measured Distance<br>[Meters] |
|-------------------|--------------------------|-------------------------------|
| 0.009 – 0.490 MHz | 2400/F (kHz)             | 300                           |
| 0.490 – 1.705 MHz | 24000/F (kHz)            | 30                            |
| 1.705 – 30.00 MHz | 30                       | 30                            |
| 30.00 – 88.00 MHz | 100                      | 3                             |
| 88.00 – 216.0 MHz | 150                      | 3                             |
| 216.0 – 960.0 MHz | 200                      | 3                             |
| Above 960.0 MHz   | 500                      | 3                             |

**Table 7-51. Radiated Limits**

### Test Procedures Used

ANSI C63.10-2013

### Test Settings

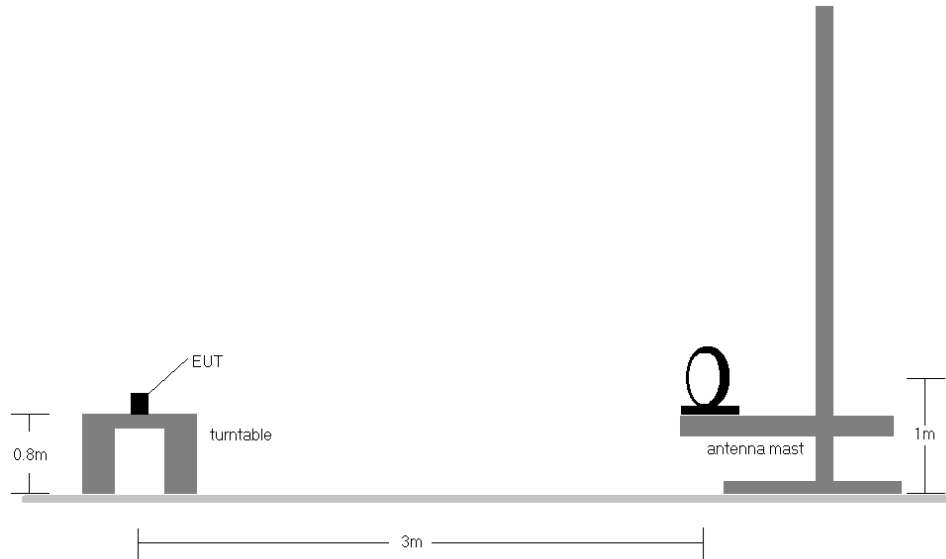
#### Quasi-Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 120kHz (for emissions from 30MHz – 1GHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

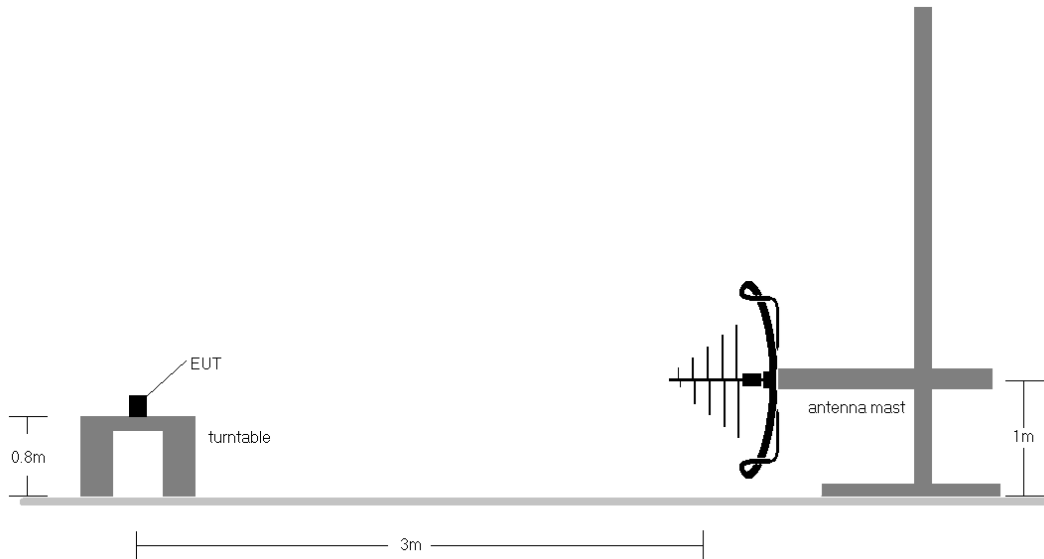
|                                            |                                                                                     |                                       |                                                                                       |                                 |
|--------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFQ910QM                          |  | MEASUREMENT REPORT<br>(CERTIFICATION) |  | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1806290137-06-R2.ZNF | Test Dates:<br>6/29 - 7/31/2018                                                     | EUT Type:<br>Portable Handset         |                                                                                       | Page 157 of 169                 |

## Test Setup

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



**Figure 7-6. Radiated Test Setup < 30MHz**



**Figure 7-7. Radiated Test Setup < 1GHz**

|                                            |                                               |                                       |    |                                 |
|--------------------------------------------|-----------------------------------------------|---------------------------------------|----|---------------------------------|
| FCC ID: ZNFQ910QM                          | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | LG | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1806290137-06-R2.ZNF | Test Dates:<br>6/29 - 7/31/2018               | EUT Type:<br>Portable Handset         |    | Page 158 of 169                 |

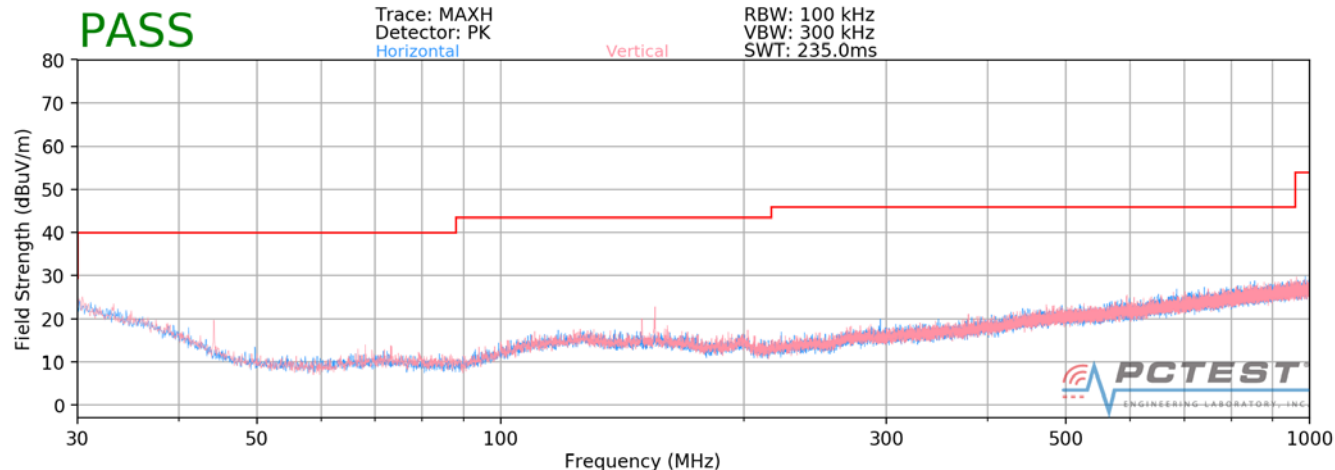
## Test Notes

1. All emissions lying in restricted bands specified in §15.205 and RSS-Gen (8.10) are below the limit shown in Table 7-51.
2. The broadband receive antenna is manipulated through vertical and horizontal polarizations during the tests. The EUT is manipulated through three orthogonal planes.
3. This unit was tested with its standard battery.
4. The spectrum is investigated using a peak detector and final measurements are recorded using CISPR quasi peak detector. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
5. Emissions were measured at a 3 meter test distance.
6. Emissions are investigated while operating on the center channel of the mode, band, and modulation that produced the worst case results during the transmitter spurious emissions testing.
7. No spurious emissions were detected within 20dB of the limit below 30MHz.
8. The results recorded using the broadband antenna is known to correlate with the results obtained by using a tuned dipole with an acceptable degree of accuracy. The VSWR for the measurement antenna was found to be less than 2:1.
9. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. There were no emissions detected in the 30MHz – 1GHz frequency range, as shown in the subsequent plots.

|                                            |                                                                                     |                                       |                                                                                       |                                 |
|--------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFQ910QM                          |  | MEASUREMENT REPORT<br>(CERTIFICATION) |  | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1806290137-06-R2.ZNF | Test Dates:<br>6/29 - 7/31/2018                                                     | EUT Type:<br>Portable Handset         | Page 159 of 169                                                                       |                                 |

## SISO Antenna-1 Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209; RSS-Gen [8.9]

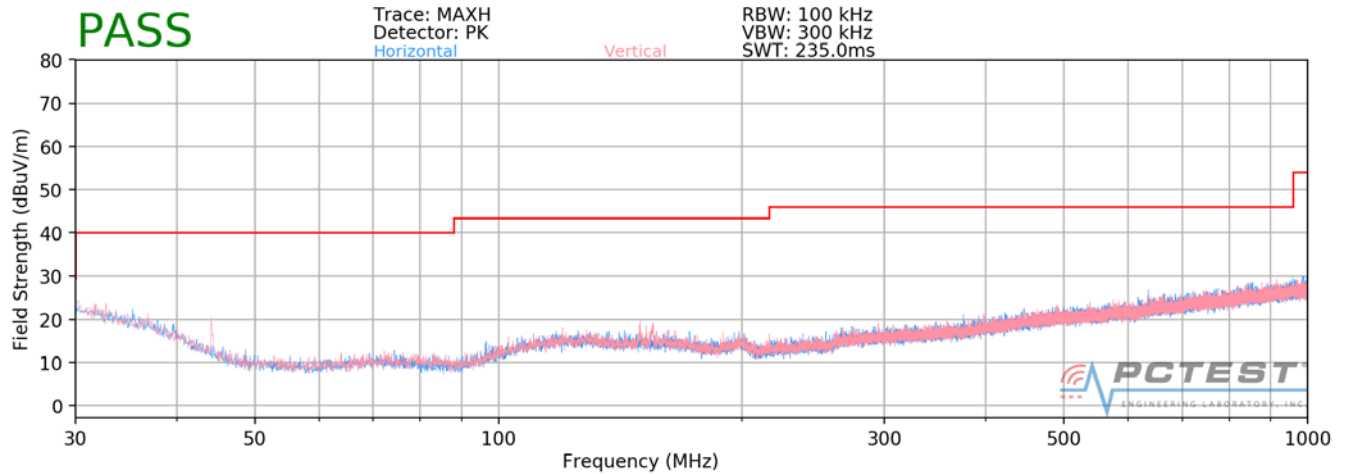


Plot 7-242. Radiated Spurious Plot below 1GHz SISO ANT1 (802.11a - U3 Ch. 157)

|                                            |                                               |                                       |    |                                 |
|--------------------------------------------|-----------------------------------------------|---------------------------------------|----|---------------------------------|
| FCC ID: ZNFQ910QM                          | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | LG | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1806290137-06-R2.ZNF | Test Dates:<br>6/29 - 7/31/2018               | EUT Type:<br>Portable Handset         |    | Page 160 of 169                 |

## SISO Antenna-2 Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209; RSS-Gen [8.9]

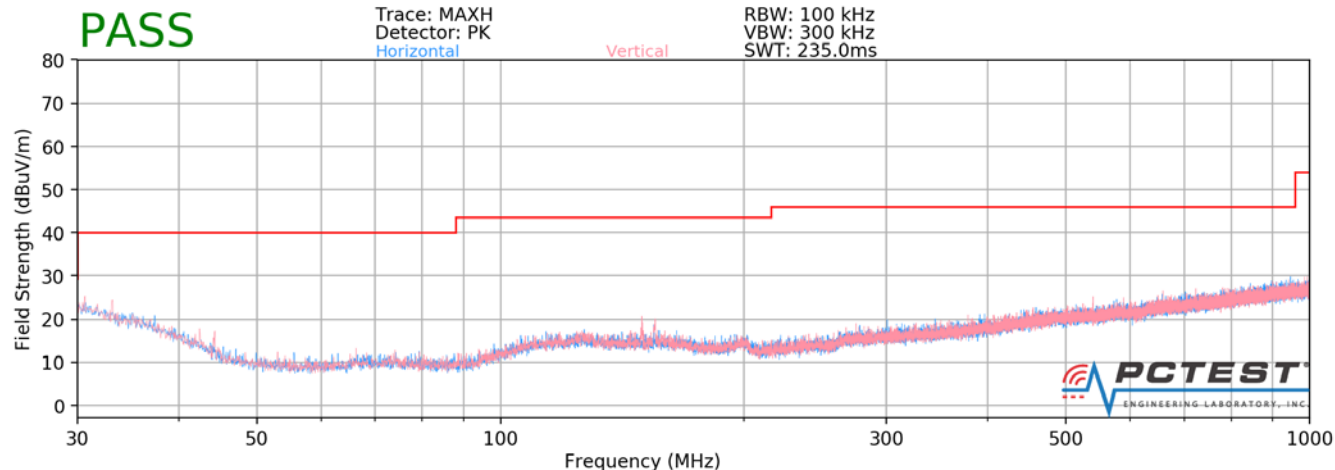


Plot 7-243. Radiated Spurious Plot below 1GHz SISO ANT2 (802.11a – U3 Ch. 157)

|                                            |                                               |                                       |    |                                 |
|--------------------------------------------|-----------------------------------------------|---------------------------------------|----|---------------------------------|
| FCC ID: ZNFQ910QM                          | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | LG | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1806290137-06-R2.ZNF | Test Dates:<br>6/29 - 7/31/2018               | EUT Type:<br>Portable Handset         |    | Page 161 of 169                 |

## Simultaneous Tx Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209; RSS-Gen [8.9]



Plot 7-244. Radiated Spurious Plot below 1GHz (2.4GHz – 5GHz)

|                                            |                                                                                                                                                                                                                         |                               |                                 |
|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------|
| FCC ID: ZNFQ910QM                          |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b>  |                               | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1806290137-06-R2.ZNF | Test Dates:<br>6/29 - 7/31/2018                                                                                                                                                                                         | EUT Type:<br>Portable Handset | Page 162 of 169                 |

## 7.8 Line-Conducted Test Data

§15.407; RSS-Gen [8.8]

### Test Overview and Limit

All AC line conducted spurious emissions are measured with a receiver connected to a grounded LISN while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for conducted spurious emissions. Only the conducted emissions of the configuration that produced the worst case emissions are reported in this section.

***All conducted emissions must not exceed the limits shown in the table below, per Section 15.207 and RSS-Gen (8.8).***

| Frequency of emission<br>(MHz) | Conducted Limit (dBμV) |           |
|--------------------------------|------------------------|-----------|
|                                | Quasi-peak             | Average   |
| 0.15 – 0.5                     | 66 to 56*              | 56 to 46* |
| 0.5 – 5                        | 56                     | 46        |
| 5 – 30                         | 60                     | 50        |

**Table 7-52. Conducted Limits**

\*Decreases with the logarithm of the frequency.

### Test Procedures Used

ANSI C63.10-2013, Section 6.2

### Test Settings

#### Quasi-Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

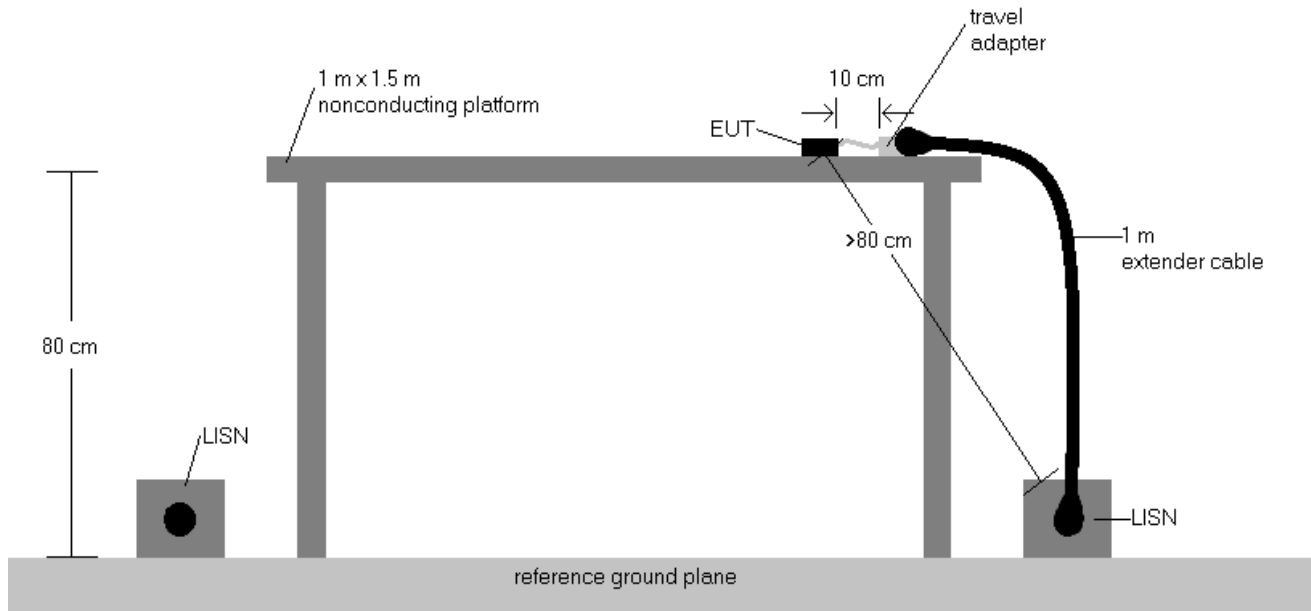
#### Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = RMS
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

|                                            |                                                                                     |                                       |                                                                                       |                                 |
|--------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFQ910QM                          |  | MEASUREMENT REPORT<br>(CERTIFICATION) |  | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1806290137-06-R2.ZNF | Test Dates:<br>6/29 - 7/31/2018                                                     | EUT Type:<br>Portable Handset         |                                                                                       | Page 163 of 169                 |

## Test Setup

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

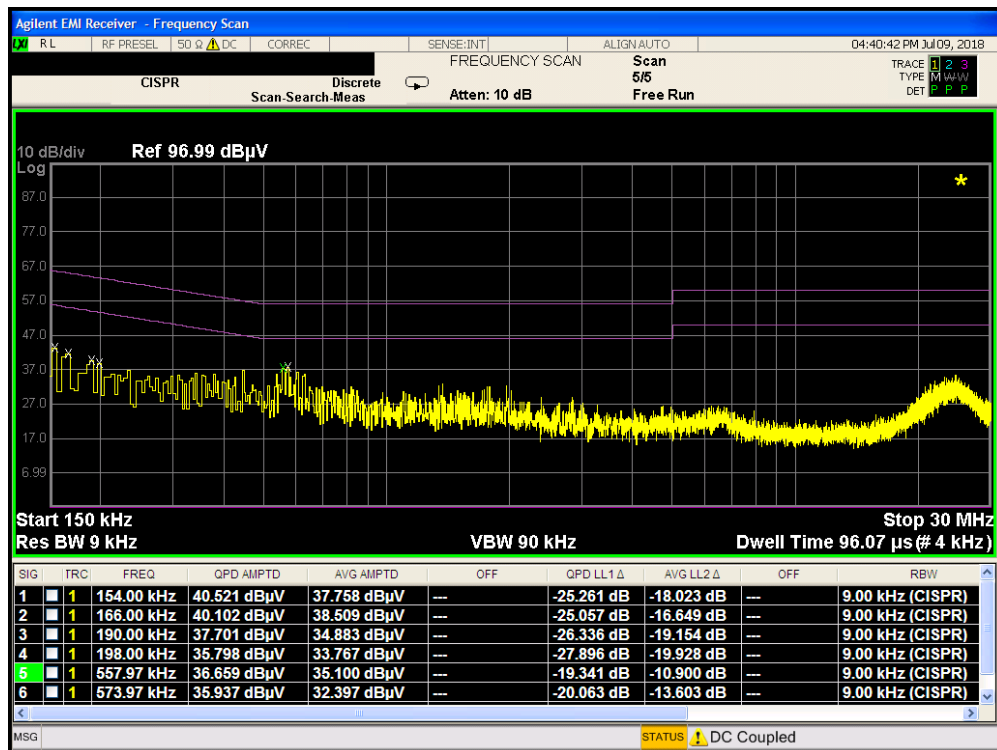


**Figure 7-8. Test Instrument & Measurement Setup**

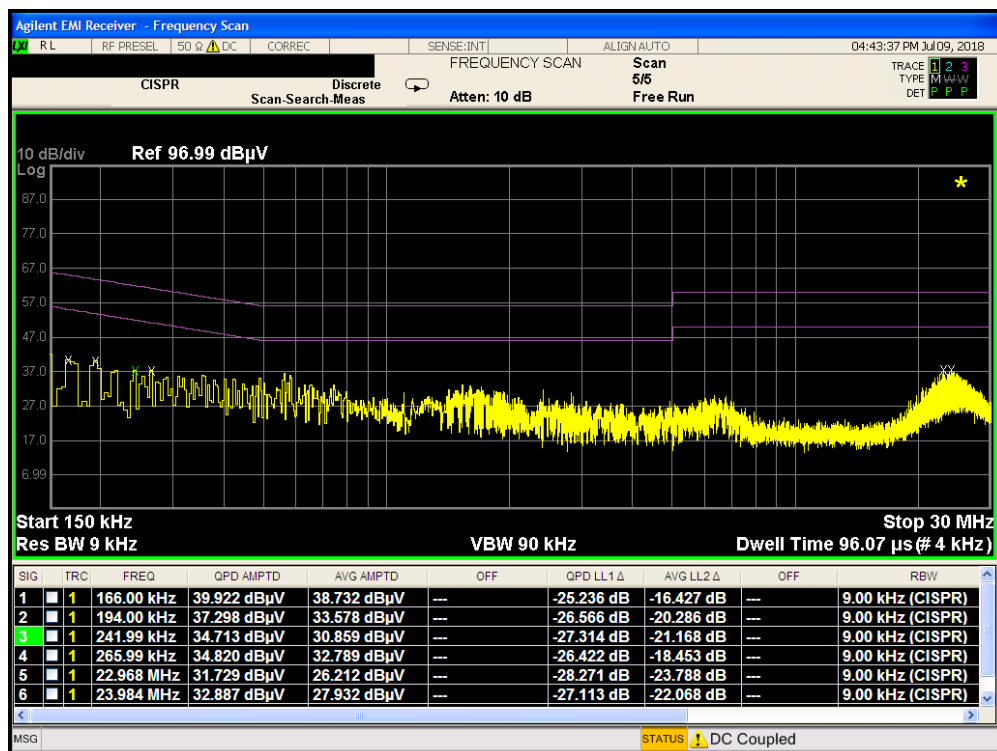
## Test Notes

1. All modes of operation were investigated and the worst-case emissions are reported using mid channel. The emissions found were not affected by the choice of channel used during testing.
2. The limit for an intentional radiator from 150kHz to 30MHz are specified in 15.207 and RSS-Gen (8.8).
3.  $\text{Corr. (dB)} = \text{Cable loss (dB)} + \text{LISN insertion factor (dB)}$
4.  $\text{QP/AV Level (dB}\mu\text{V)} = \text{QP/AV Analyzer/Receiver Level (dB}\mu\text{V)} + \text{Corr. (dB)}$
5.  $\text{Margin (dB)} = \text{QP/AV Limit (dB}\mu\text{V)} - \text{QP/AV Level (dB}\mu\text{V)}$
6. Traces shown in plot are made using a peak detector.
7. Deviations to the Specifications: None.

|                                            |                                                                                     |                                       |                                                                                       |                                 |
|--------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFQ910QM                          |  | MEASUREMENT REPORT<br>(CERTIFICATION) |  | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1806290137-06-R2-ZNF | Test Dates:<br>6/29 - 7/31/2018                                                     | EUT Type:<br>Portable Handset         |                                                                                       | Page 164 of 169                 |

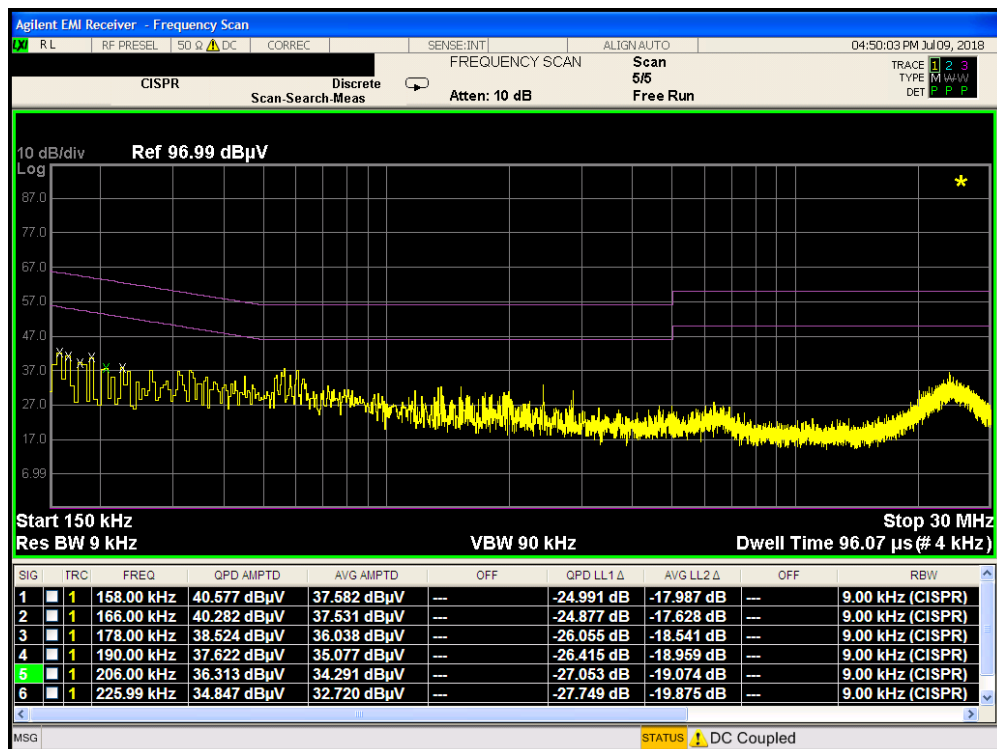


Plot 7-245. Line Conducted Plot with 802.11a UNII Band 1 (L1)

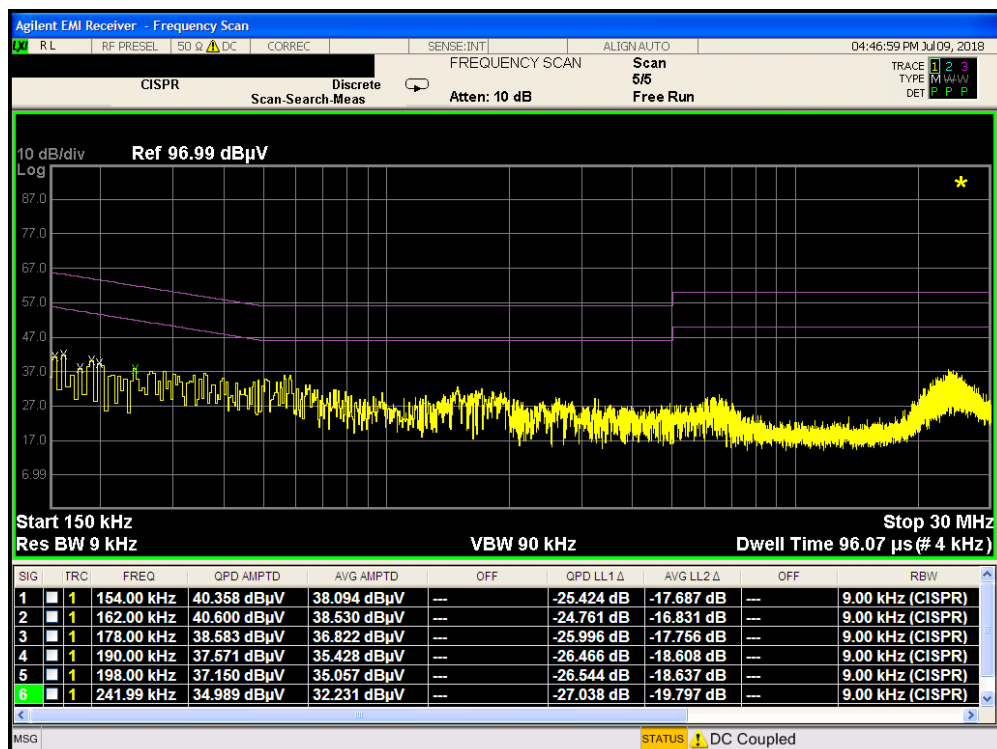


Plot 7-246. Line Conducted Plot with 802.11a UNII Band 1 (N)

|                                            |                                 |                                       |  |                                 |
|--------------------------------------------|---------------------------------|---------------------------------------|--|---------------------------------|
| FCC ID: ZNFQ910QM                          |                                 | MEASUREMENT REPORT<br>(CERTIFICATION) |  | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1806290137-06-R2-ZNF | Test Dates:<br>6/29 - 7/31/2018 | EUT Type:<br>Portable Handset         |  | Page 165 of 169                 |

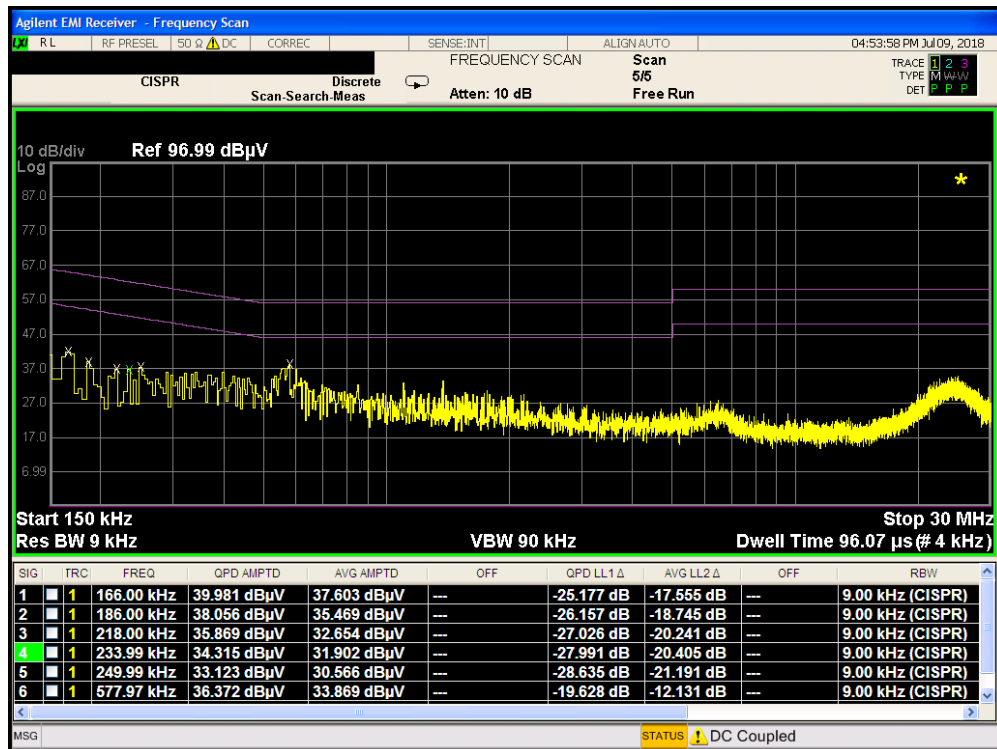


Plot 7-247. Line Conducted Plot with 802.11a UNII Band 2A (L1)

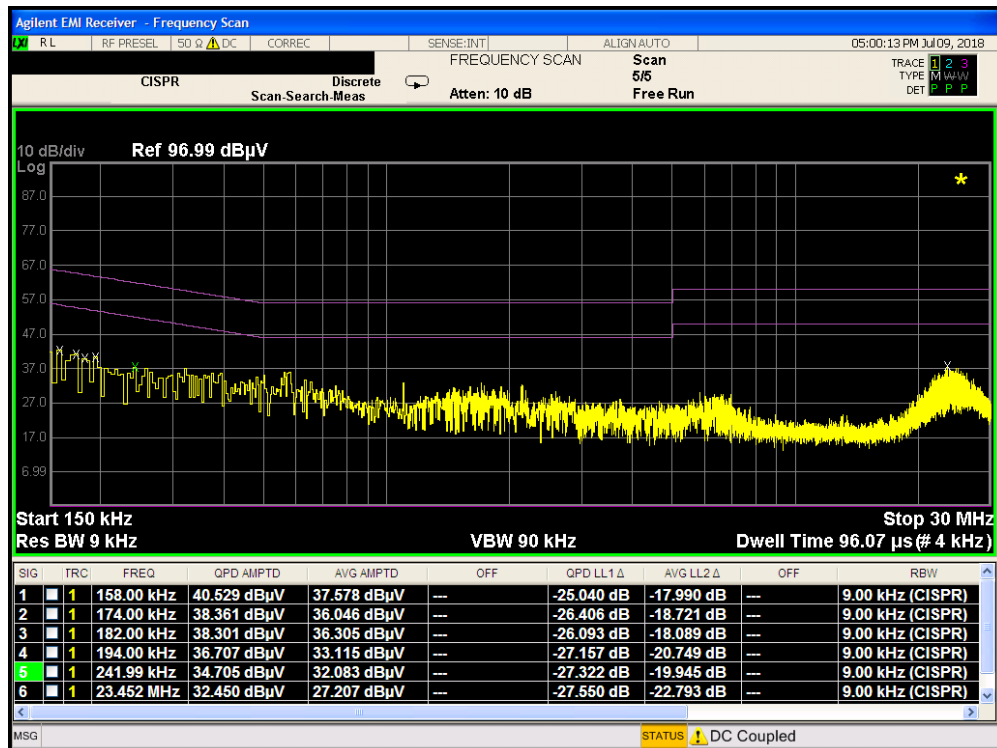


Plot 7-248. Line Conducted Plot with 802.11a UNII Band 2A (N)

|                                            |                                               |                                       |           |                                 |
|--------------------------------------------|-----------------------------------------------|---------------------------------------|-----------|---------------------------------|
| FCC ID: ZNFQ910QM                          | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | <b>LG</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1806290137-06-R2-ZNF | Test Dates:<br>6/29 - 7/31/2018               | EUT Type:<br>Portable Handset         |           | Page 166 of 169                 |

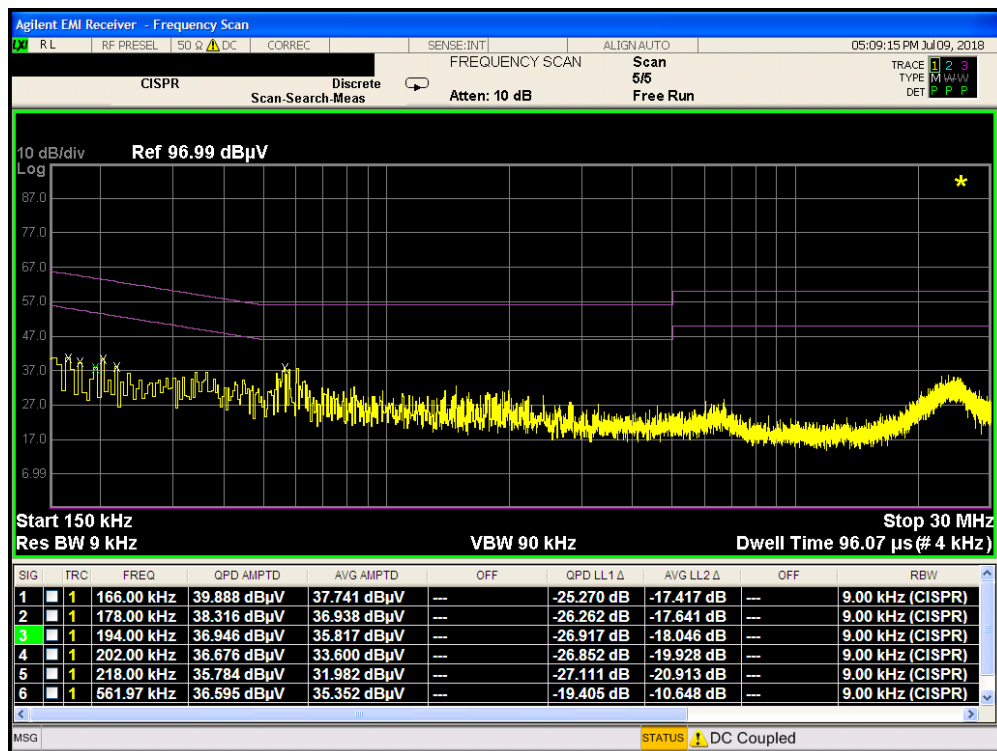


Plot 7-249. Line Conducted Plot with 802.11a UNII Band 2C (L1)

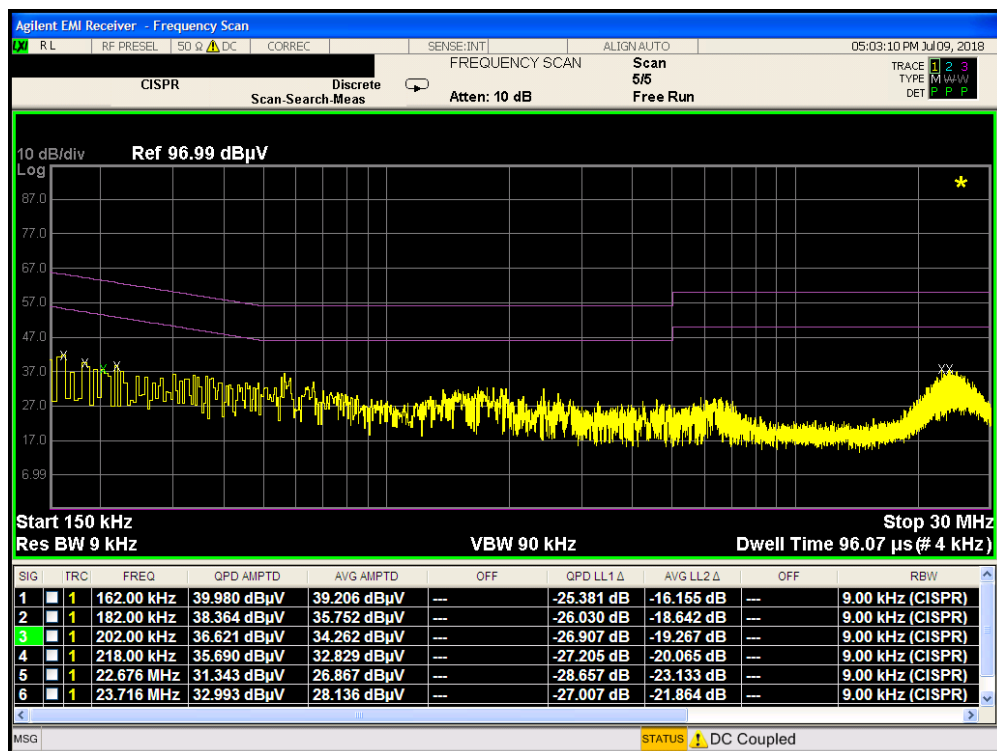


Plot 7-250. Line Conducted Plot with 802.11a UNII Band 2C (N)

|                                            |                                 |                                       |  |                                 |
|--------------------------------------------|---------------------------------|---------------------------------------|--|---------------------------------|
| FCC ID: ZNFQ910QM                          |                                 | MEASUREMENT REPORT<br>(CERTIFICATION) |  | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1806290137-06-R2-ZNF | Test Dates:<br>6/29 - 7/31/2018 | EUT Type:<br>Portable Handset         |  | Page 167 of 169                 |



Plot 7-251. Line Conducted Plot with 802.11a UNII Band 3 (L1)



Plot 7-252. Line Conducted Plot with 802.11a UNII Band 3 (N)

|                                            |                                 |                                       |  |                                 |
|--------------------------------------------|---------------------------------|---------------------------------------|--|---------------------------------|
| FCC ID: ZNFQ910QM                          |                                 | MEASUREMENT REPORT<br>(CERTIFICATION) |  | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1806290137-06-R2-ZNF | Test Dates:<br>6/29 - 7/31/2018 | EUT Type:<br>Portable Handset         |  | Page 168 of 169                 |

## 8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **LG Portable Handset FCC ID: ZNFQ910QM** is in compliance with Part 15 Subpart C (15.407) of the FCC Rules and RSS-247 of the Innovation, Science and Economic Development Canada Rules.

|                                            |                                                                                     |                                       |                                                                                       |                                 |
|--------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFQ910QM                          |  | MEASUREMENT REPORT<br>(CERTIFICATION) |  | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1806290137-06-R2.ZNF | Test Dates:<br>6/29 - 7/31/2018                                                     | EUT Type:<br>Portable Handset         | Page 169 of 169                                                                       |                                 |