

802.11ac(HT20) mode



Channel 36 (5180MHz)

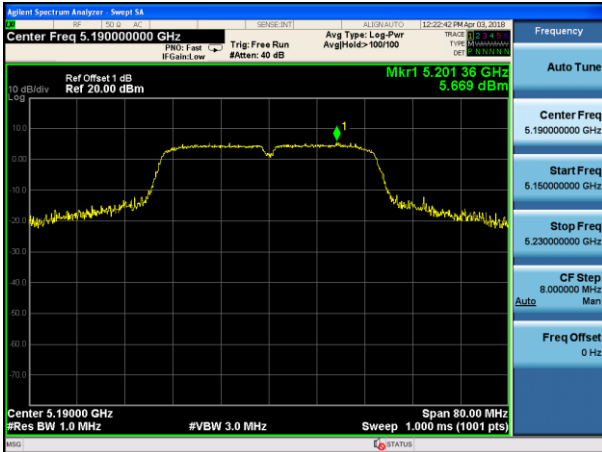


Channel 40 (5200MHz)



Channel 48 (5240MHz)

802.11n(HT40) mode



Channel 38 (5190MHz)



Channel 38 (5190MHz)

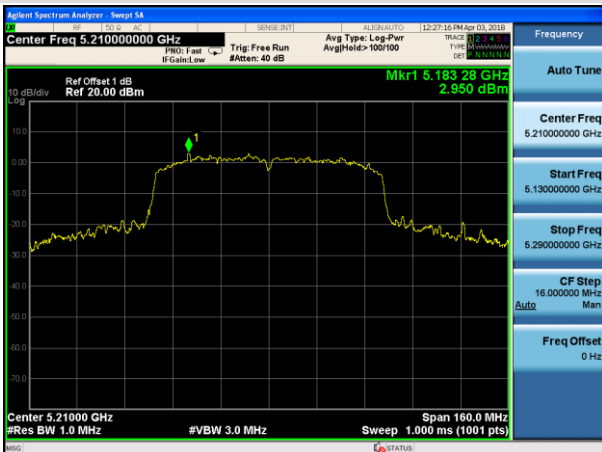


Channel 46 (5230MHz)



Channel 46 (5230MHz)

802.11ac(HT80) mode

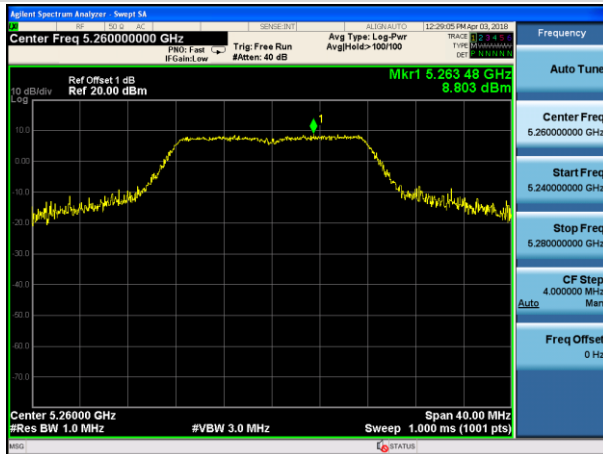


Channel 40 (5210MHz)

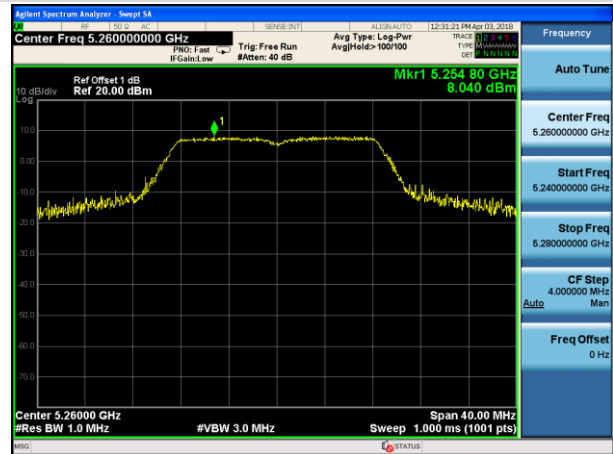
Band 2A (5250 - 5350 MHz)

802.11a mode

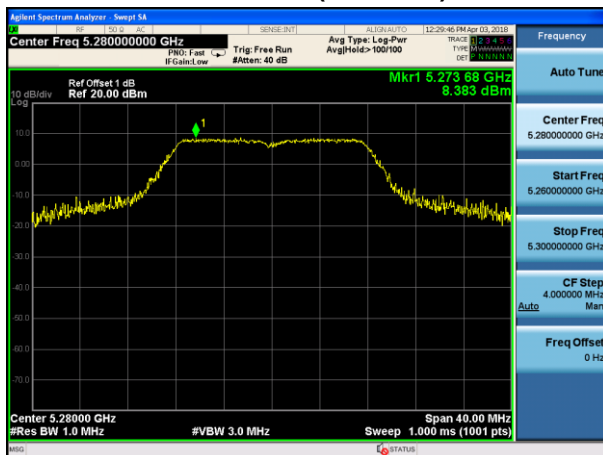
802.11n(HT20) mode



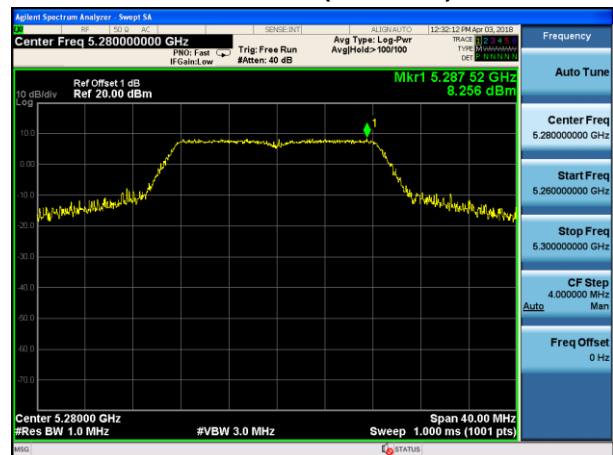
Channel 52 (5260MHz)



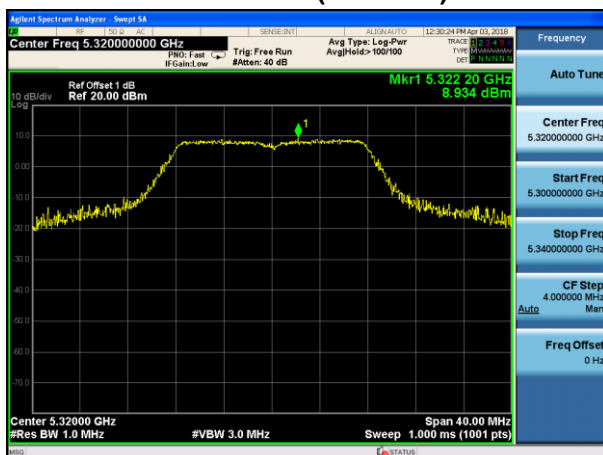
Channel 52 (5260MHz)



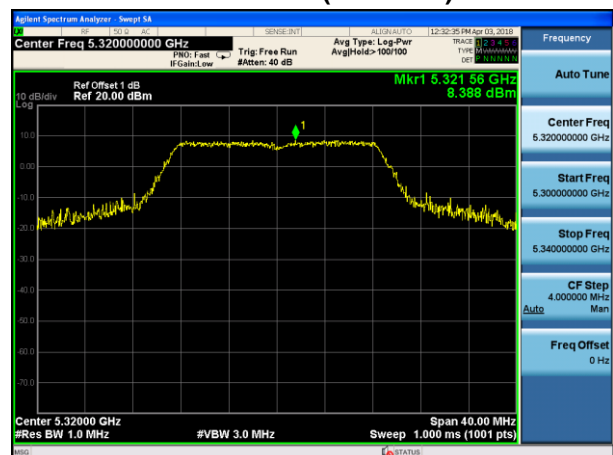
Channel 56 (5280MHz)



Channel 56 (5280MHz)



Channel 64 (5320MHz)

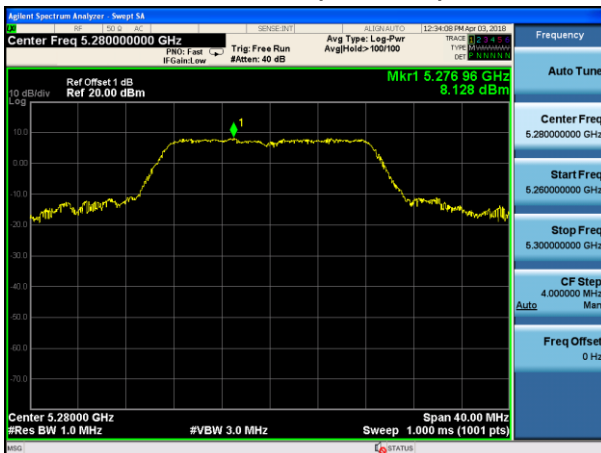


Channel 64 (5320MHz)

802.11ac(HT20) mode



Channel 52 (5260MHz)

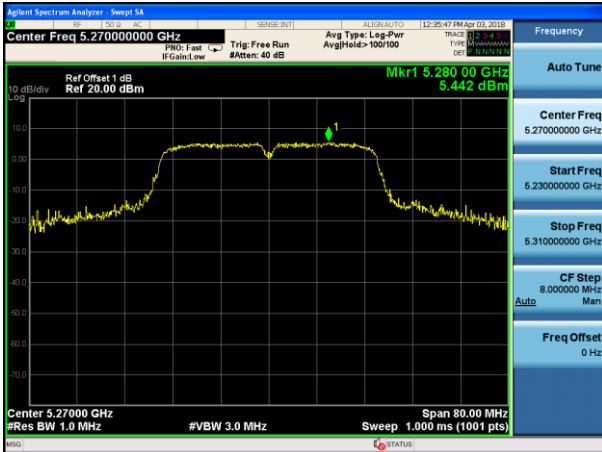


Channel 56 (5280MHz)



Channel 64 (5320MHz)

802.11n(HT40) mode



Channel 54 (5270MHz)



Channel 54 (5270MHz)



Channel 62 (5310MHz)



Channel 62 (5310MHz)

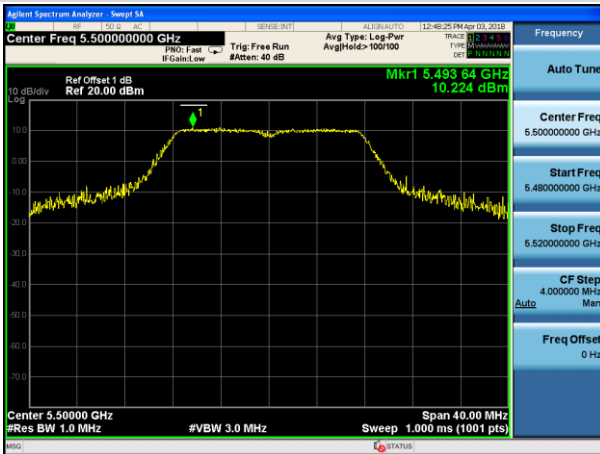
802.11ac(HT80) mode



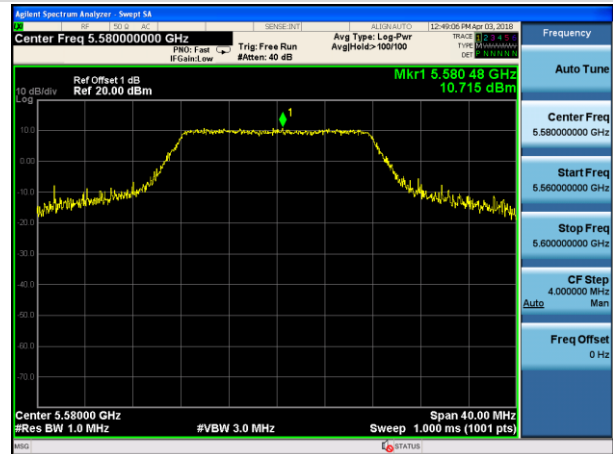
Channel 58 (5290MHz)

Band 2C (5470 - 5725 MHz)

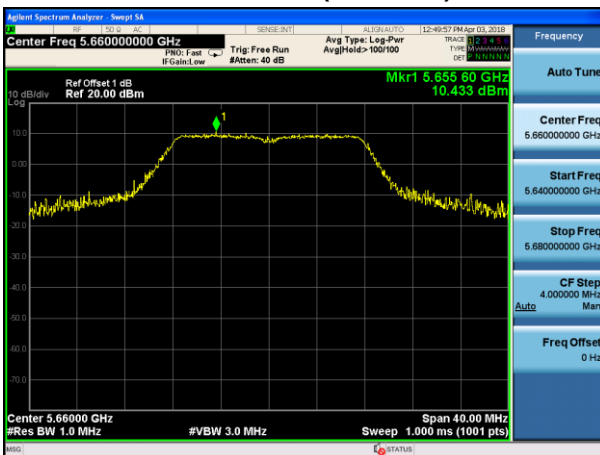
802.11a mode



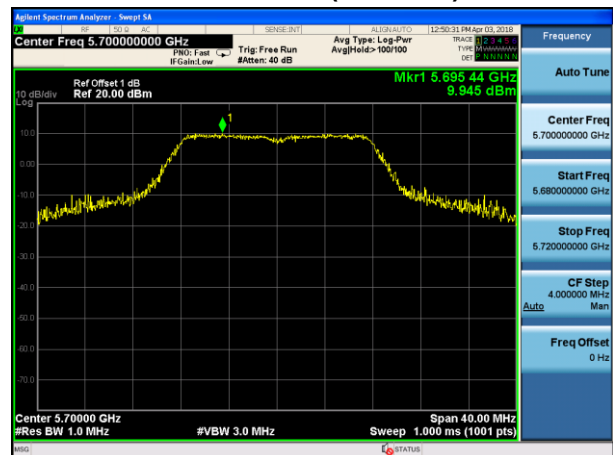
Channel 100 (5500MHz)



Channel 116 (5580MHz)



Channel 132 (5660MHz)

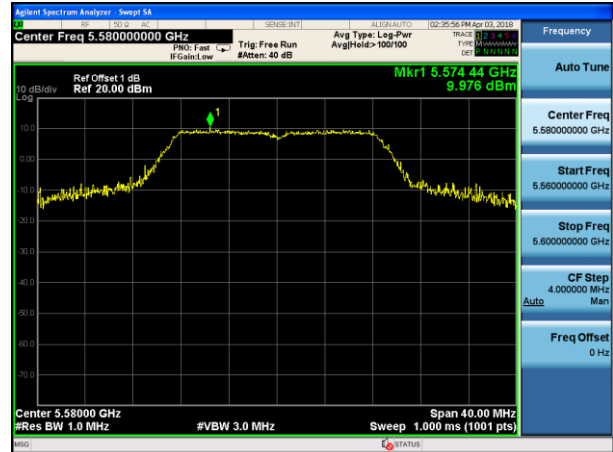


Channel 140 (5700MHz)

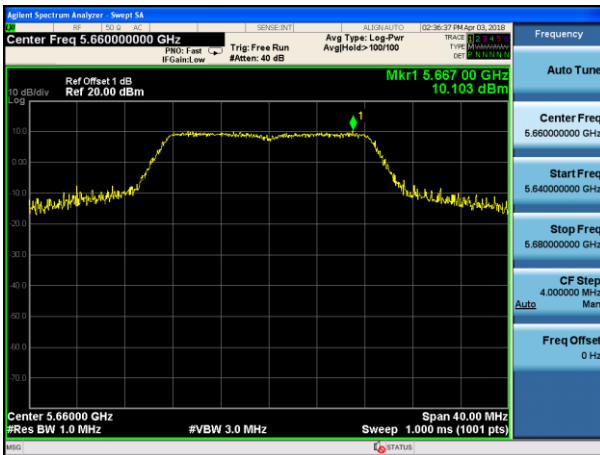
802.11n(HT20) mode



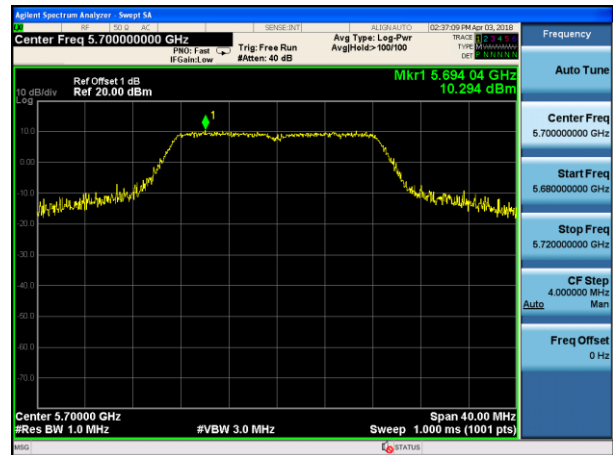
Channel 100 (5500MHz)



Channel 116 (5580MHz)

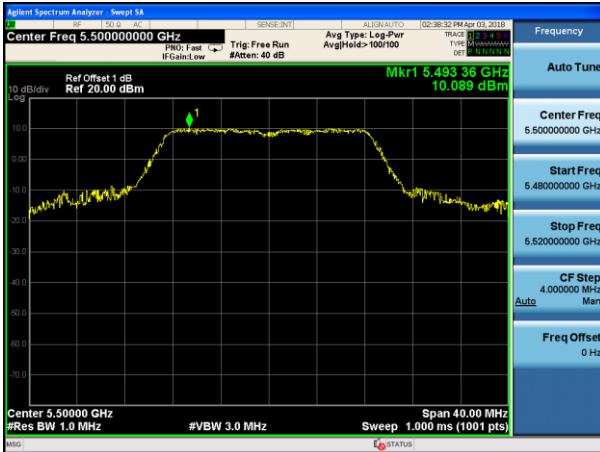


Channel 132 (5660MHz)



Channel 140 (5700MHz)

802.11ac(HT20) mode



Channel 100 (5500MHz)



Channel 116 (5580MHz)



Channel 132 (5660MHz)



Channel 140 (5700MHz)

802.11n(HT40) mode

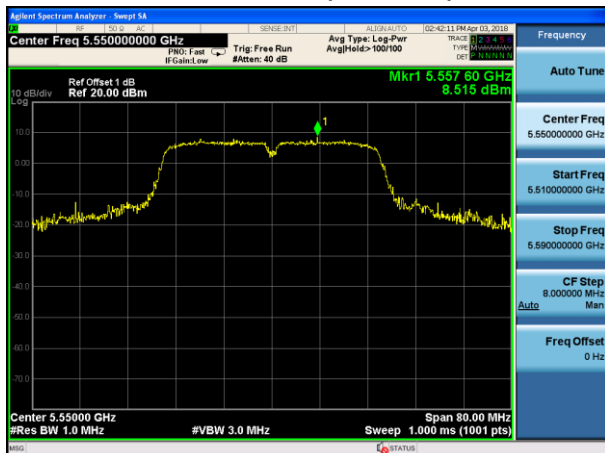


Channel 102 (5510MHz)

802.11ac(HT40) mode



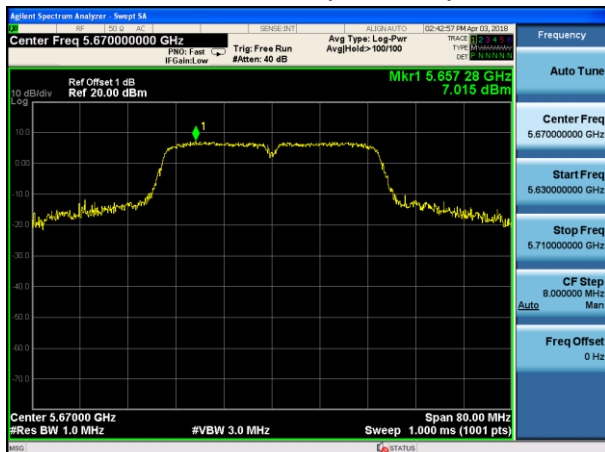
Channel 102 (5510MHz)



Channel 110 (5550MHz)



Channel 110 (5550MHz)



Channel 134 (5670MHz)



Channel 134 (5670MHz)

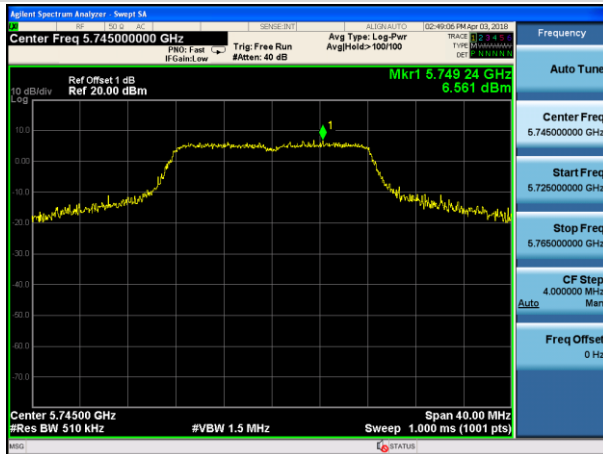
802.11ac(HT80) mode



Channel 106 (5530MHz)

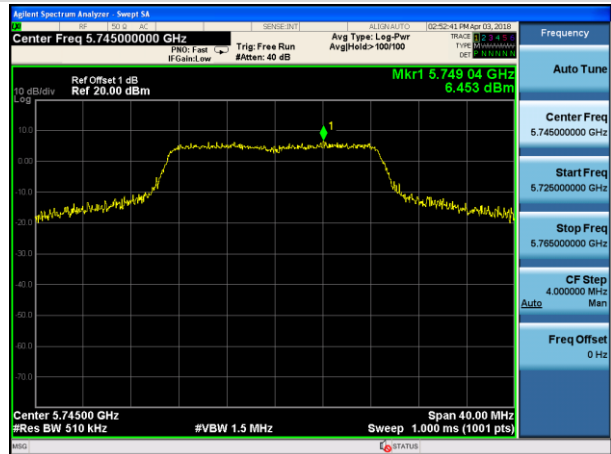
Band 3 (5725 - 5850 MHz)

802.11a mode

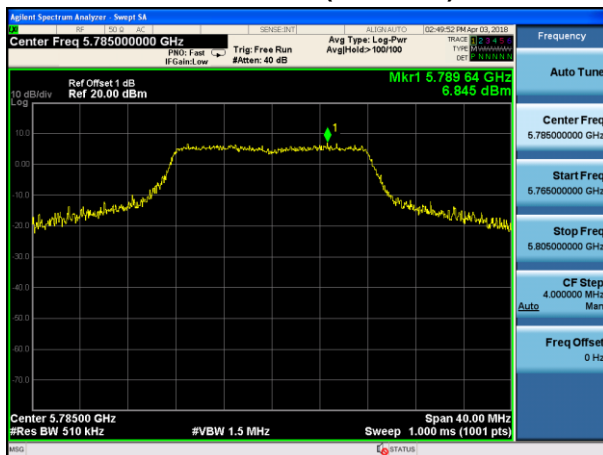


Channel 149 (5745MHz)

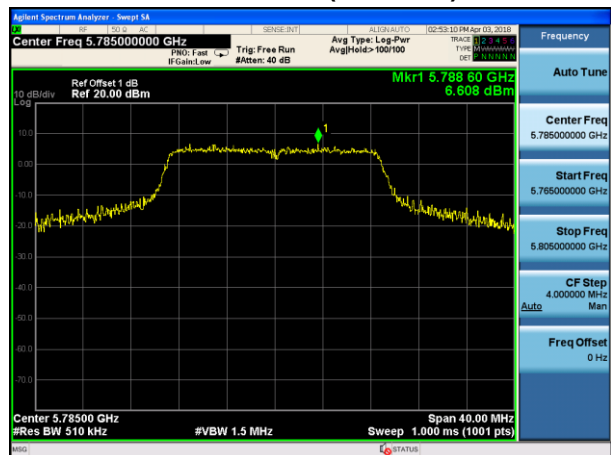
802.11n(HT20) mode



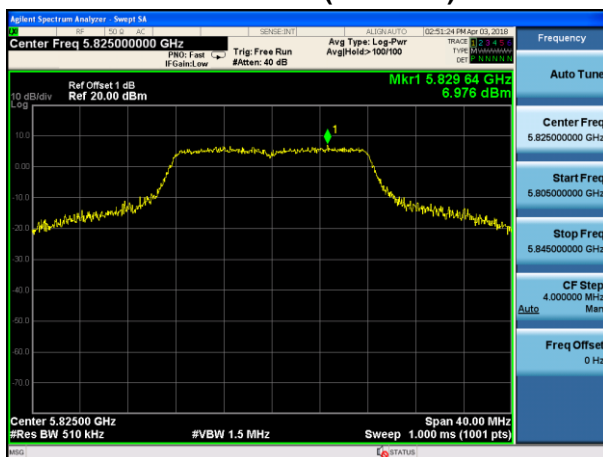
Channel 149 (5745MHz)



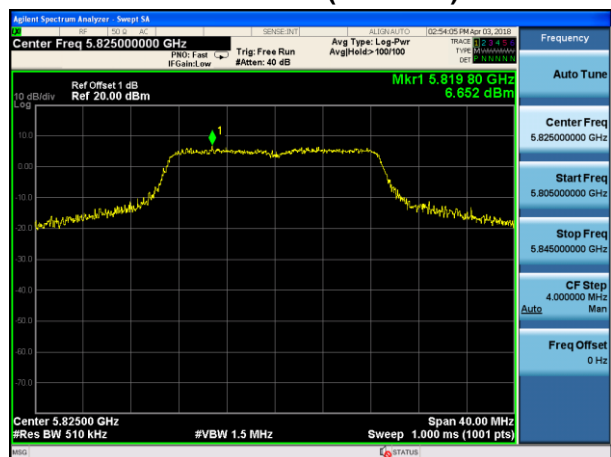
Channel 157 (5785MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)

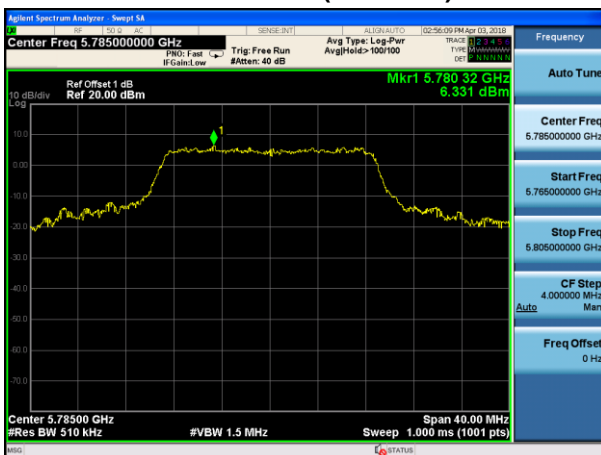


Channel 165 (5825MHz)

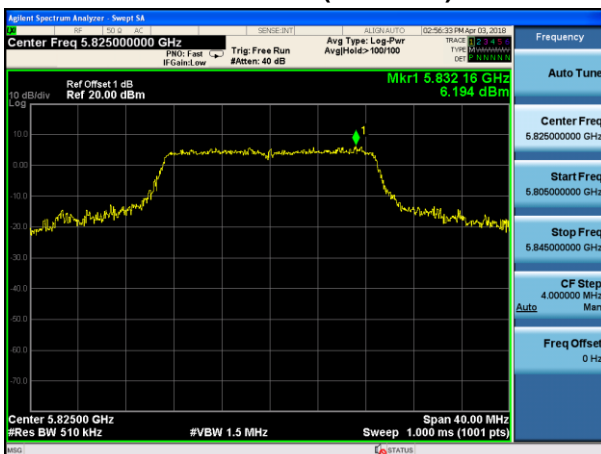
802.11ac(HT20) mode



Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)

802.11n(HT40) mode



Channel 151 (5755MHz)



Channel 151 (5755MHz)



Channel 159 (5795MHz)



Channel 159 (5795MHz)

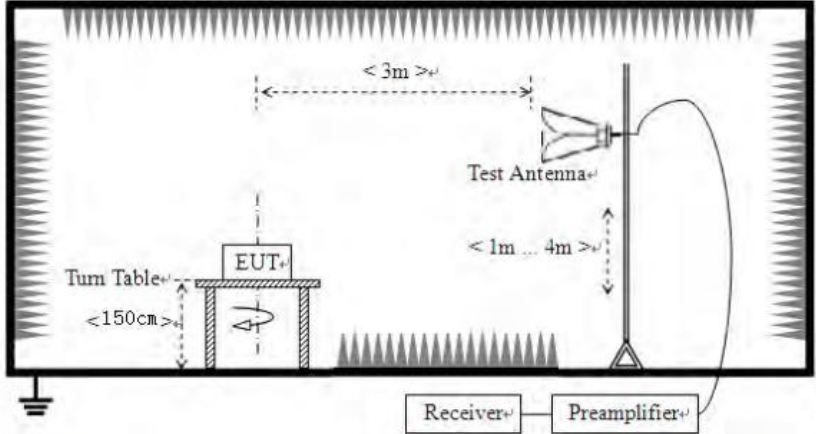
802.11ac(HT80) mode



Channel 155(5775MHz)

7.6 Band Edge

| Test Requirement: | FCC Part15 E Section 15.407 and 15.205 | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|------------------|--------|------------------|-----------|--------------------|--------|-------------|--------|------------------|--------------|--------|------------------|------------------|------------|------------------|-------------|------|------------------|------------|------|---------------|---------------|------------|
| Test Method: | ANSI C63.10:2013 | | | | | | | | | | | | | | | | | | | | | | | |
| Test site: | Measurement Distance: 3m (Semi-Anechoic Chamber) | | | | | | | | | | | | | | | | | | | | | | | |
| Receiver setup: | <table border="1"> <thead> <tr> <th>Frequency</th> <th>Detector</th> <th>RBW</th> <th>VBW</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>30MHz-1GHz</td> <td>Quasi-peak</td> <td>100KHz</td> <td>300KHz</td> <td>Quasi-peak Value</td> </tr> <tr> <td rowspan="2">Above 1GHz</td> <td>Peak</td> <td>1MHz</td> <td>3MHz</td> <td>Peak Value</td> </tr> <tr> <td>AV</td> <td>1MHz</td> <td>3MHz</td> <td>Average Value</td> </tr> </tbody> </table> | | | | Frequency | Detector | RBW | VBW | Remark | 30MHz-1GHz | Quasi-peak | 100KHz | 300KHz | Quasi-peak Value | Above 1GHz | Peak | 1MHz | 3MHz | Peak Value | AV | 1MHz | 3MHz | Average Value | |
| Frequency | Detector | RBW | VBW | Remark | | | | | | | | | | | | | | | | | | | | |
| 30MHz-1GHz | Quasi-peak | 100KHz | 300KHz | Quasi-peak Value | | | | | | | | | | | | | | | | | | | | |
| Above 1GHz | Peak | 1MHz | 3MHz | Peak Value | | | | | | | | | | | | | | | | | | | | |
| | AV | 1MHz | 3MHz | Average Value | | | | | | | | | | | | | | | | | | | | |
| Limit: | <table border="1"> <thead> <tr> <th>Frequency</th> <th>Limit (dBuV/m @3m)</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>30MHz-88MHz</td> <td>40.0</td> <td>Quasi-peak Value</td> </tr> <tr> <td>88MHz-216MHz</td> <td>43.5</td> <td>Quasi-peak Value</td> </tr> <tr> <td>216MHz-960MHz</td> <td>46.0</td> <td>Quasi-peak Value</td> </tr> <tr> <td>960MHz-1GHz</td> <td>54.0</td> <td>Quasi-peak Value</td> </tr> <tr> <td rowspan="2">Above 1GHz</td> <td>54.0</td> <td>Average Value</td> </tr> <tr> <td>68.2</td> <td>Peak Value</td> </tr> </tbody> </table> <p>Undesirable emission limits:</p> <p>(1) For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.</p> <p>(2) For transmitters operating in the 5.25-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5.25-5.35 GHz band that generate emissions in the 5.15-5.25 GHz band must meet all applicable technical requirements for operation in the 5.15-5.25 GHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5.15-5.25 GHz band.</p> <p>(3) For transmitters operating in the 5.47-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of -27 dBm/MHz.</p> | | | | Frequency | Limit (dBuV/m @3m) | Remark | 30MHz-88MHz | 40.0 | Quasi-peak Value | 88MHz-216MHz | 43.5 | Quasi-peak Value | 216MHz-960MHz | 46.0 | Quasi-peak Value | 960MHz-1GHz | 54.0 | Quasi-peak Value | Above 1GHz | 54.0 | Average Value | 68.2 | Peak Value |
| Frequency | Limit (dBuV/m @3m) | Remark | | | | | | | | | | | | | | | | | | | | | | |
| 30MHz-88MHz | 40.0 | Quasi-peak Value | | | | | | | | | | | | | | | | | | | | | | |
| 88MHz-216MHz | 43.5 | Quasi-peak Value | | | | | | | | | | | | | | | | | | | | | | |
| 216MHz-960MHz | 46.0 | Quasi-peak Value | | | | | | | | | | | | | | | | | | | | | | |
| 960MHz-1GHz | 54.0 | Quasi-peak Value | | | | | | | | | | | | | | | | | | | | | | |
| Above 1GHz | 54.0 | Average Value | | | | | | | | | | | | | | | | | | | | | | |
| | 68.2 | Peak Value | | | | | | | | | | | | | | | | | | | | | | |
| Test Procedure: | <p>a. The EUT was placed on the top of a rotating table 1.5 m above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</p> <p>b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</p> <p>c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</p> <p>d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values</p> | | | | | | | | | | | | | | | | | | | | | | | |

| | |
|--------------------------|---|
| | <p>of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</p> |
| <p>Test setup:</p> | <p>Above 1GHz</p>  |
| <p>Test Instruments:</p> | <p>Refer to section 5.10 for details</p> |
| <p>Test mode:</p> | <p>Refer to section 5.3 for details</p> |
| <p>Test results:</p> | <p>Pass</p> |

Remark:

According to KDB 789033 D02 v02r01 section G) 1) (d), for For measurements above 1000 MHz @ 3m distance, the limit of field strength is computed as follows:

$$E[\text{dBuV/m}] = \text{EIRP}[\text{dBm}] + 95.2;$$

For example, if $\text{EIRP} = -27\text{dBm}$

$$E[\text{dBuV/m}] = -27 + 95.2 = 68.2\text{dBuV/m}.$$

Measurement Data:

Band1

| Mode: | | 802.11a | | Frequency: | | 5180MHz | |
|--------------|-----------------|----------------------|---------------|------------------------|----------------|----------------|----------|
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H | 5150.00 | 34.58 | 17.18 | 51.76 | 68.20 | -16.44 | PK |
| V | 5150.00 | 37.21 | 17.18 | 54.39 | 68.20 | -13.81 | PK |
| Mode: | | 802.11a | | Frequency: | | 5180MHz | |
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H | 5150.00 | 24.75 | 17.18 | 41.93 | 54.00 | -12.07 | AV |
| V | 5150.00 | 27.02 | 17.18 | 44.20 | 54.00 | -9.80 | AV |
| Mode: | | 802.11a | | Frequency: | | 5240MHz | |
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H | 5350.00 | 33.15 | 17.18 | 50.33 | 68.20 | -17.87 | PK |
| V | 5350.00 | 34.37 | 17.18 | 51.55 | 68.20 | -16.65 | PK |
| Mode: | | 802.11a | | Frequency: | | 5240MHz | |
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H | 5350.00 | 24.32 | 17.18 | 41.50 | 54.00 | -12.50 | AV |
| V | 5350.00 | 25.39 | 17.18 | 42.57 | 54.00 | -11.43 | AV |

| Mode: | | 802.11n(HT20) | | Frequency: | | 5180MHz | |
|--------------|-----------------|----------------------|---------------|------------------------|----------------|----------------|----------|
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H | 5150.00 | 34.68 | 17.18 | 51.86 | 68.20 | -16.34 | PK |
| V | 5150.00 | 36.70 | 17.18 | 53.88 | 68.20 | -14.32 | PK |
| | | | | | | | |
| Mode: | | 802.11n(HT20) | | Frequency: | | 5180MHz | |
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H | 5150.00 | 25.44 | 17.18 | 42.62 | 54.00 | -11.38 | AV |
| V | 5150.00 | 27.60 | 17.18 | 44.78 | 54.00 | -9.22 | AV |
| | | | | | | | |
| Mode: | | 802.11n(HT20) | | Frequency: | | 5240MHz | |
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H | 5350.00 | 33.28 | 17.18 | 50.46 | 68.20 | -17.74 | PK |
| V | 5350.00 | 35.07 | 17.18 | 52.25 | 68.20 | -15.95 | PK |
| | | | | | | | |
| Mode: | | 802.11n(HT20) | | Frequency: | | 5240MHz | |
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H | 5350.00 | 23.80 | 17.18 | 40.98 | 54.00 | -13.02 | AV |
| V | 5350.00 | 25.29 | 17.18 | 42.47 | 54.00 | -11.53 | AV |

| Mode: | | 802.11ac(HT20) | | Frequency: | | 5180MHz | |
|--------------|-----------------|----------------------|---------------|------------------------|----------------|----------------|----------|
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H | 5150.00 | 34.84 | 17.18 | 52.02 | 68.20 | -16.18 | PK |
| V | 5150.00 | 36.94 | 17.18 | 54.12 | 68.20 | -14.08 | PK |
| | | | | | | | |
| Mode: | | 802.11ac(HT20) | | Frequency: | | 5180MHz | |
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H | 5150.00 | 25.28 | 17.18 | 42.46 | 54.00 | -11.54 | AV |
| V | 5150.00 | 27.65 | 17.18 | 44.83 | 54.00 | -9.17 | AV |
| | | | | | | | |
| Mode: | | 802.11ac(HT20) | | Frequency: | | 5240MHz | |
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H | 5350.00 | 33.04 | 17.18 | 50.22 | 68.20 | -17.98 | PK |
| V | 5350.00 | 34.82 | 17.18 | 52.00 | 68.20 | -16.20 | PK |
| | | | | | | | |
| Mode: | | 802.11ac(HT20) | | Frequency: | | 5240MHz | |
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H | 5350.00 | 24.36 | 17.18 | 41.54 | 54.00 | -12.46 | AV |
| V | 5350.00 | 25.39 | 17.18 | 42.57 | 54.00 | -11.43 | AV |

| Mode: | | 802.11n(HT40) | | Frequency: | | 5190MHz | |
|--------------|-----------------|----------------------|---------------|------------------------|----------------|----------------|----------|
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H | 5150.00 | 34.22 | 17.20 | 51.42 | 68.20 | -16.78 | PK |
| V | 5150.00 | 36.76 | 17.20 | 53.96 | 68.20 | -14.24 | PK |
| | | | | | | | |
| Mode: | | 802.11n(HT40) | | Frequency: | | 5190MHz | |
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H | 5150.00 | 24.90 | 17.20 | 42.10 | 54.00 | -11.90 | AV |
| V | 5150.00 | 27.03 | 17.20 | 44.23 | 54.00 | -9.77 | AV |
| | | | | | | | |
| Mode: | | 802.11n(HT40) | | Frequency: | | 5230MHz | |
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H | 5350.00 | 33.56 | 17.20 | 50.76 | 68.20 | -17.44 | PK |
| V | 5350.00 | 34.46 | 17.20 | 51.66 | 68.20 | -16.54 | PK |
| | | | | | | | |
| Mode: | | 802.11n(HT40) | | Frequency: | | 5230MHz | |
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H | 5350.00 | 24.31 | 17.18 | 41.49 | 54.00 | -12.51 | AV |
| V | 5350.00 | 24.83 | 17.18 | 42.01 | 54.00 | -11.99 | AV |

| Mode: | | 802.11ac(HT40) | | Frequency: | | 5190MHz | |
|--------------|-----------------|----------------------|---------------|------------------------|----------------|----------------|----------|
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H | 5150.00 | 34.48 | 17.20 | 51.68 | 68.20 | -16.52 | PK |
| V | 5150.00 | 36.74 | 17.20 | 53.94 | 68.20 | -14.26 | PK |
| | | | | | | | |
| Mode: | | 802.11ac(HT40) | | Frequency: | | 5190MHz | |
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H | 5150.00 | 25.40 | 17.18 | 42.58 | 54.00 | -11.42 | AV |
| V | 5150.00 | 27.30 | 17.18 | 44.48 | 54.00 | -9.52 | AV |
| | | | | | | | |
| Mode: | | 802.11ac(HT40) | | Frequency: | | 5230MHz | |
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H | 5350.00 | 32.96 | 17.20 | 50.16 | 68.20 | -18.04 | PK |
| V | 5350.00 | 35.12 | 17.20 | 52.32 | 68.20 | -15.88 | PK |
| | | | | | | | |
| Mode: | | 802.11ac(HT40) | | Frequency: | | 5230MHz | |
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H | 5350.00 | 24.20 | 17.20 | 41.40 | 54.00 | -12.60 | AV |
| V | 5350.00 | 24.89 | 17.20 | 42.09 | 54.00 | -11.91 | AV |

| Mode: | | 802.11ac(HT80) | | Frequency: | | 5210MHz | |
|--------------|-----------------|----------------------|---------------|------------------------|----------------|----------------|----------|
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H | 5150.00 | 34.79 | 17.20 | 51.99 | 68.20 | -16.21 | PK |
| V | 5150.00 | 37.07 | 17.20 | 54.27 | 68.20 | -13.93 | PK |
| | | | | | | | |
| Mode: | | 802.11ac(HT80) | | Frequency: | | 5210MHz | |
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H | 5150.00 | 25.03 | 17.18 | 42.21 | 54.00 | -11.79 | AV |
| V | 5150.00 | 27.64 | 17.18 | 44.82 | 54.00 | -9.18 | AV |
| | | | | | | | |
| Mode: | | 802.11ac(HT80) | | Frequency: | | 5210MHz | |
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H | 5350.00 | 33.51 | 17.20 | 50.71 | 68.20 | -17.49 | PK |
| V | 5350.00 | 34.98 | 17.20 | 52.18 | 68.20 | -16.02 | PK |
| | | | | | | | |
| Mode: | | 802.11ac(HT80) | | Frequency: | | 5210MHz | |
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H | 5350.00 | 24.05 | 17.20 | 41.25 | 54.00 | -12.75 | AV |
| V | 5350.00 | 24.95 | 17.20 | 42.15 | 54.00 | -11.85 | AV |

Band2

| Mode: | | 802.11a | | Frequency: | | 5260MHz | |
|--------------|-----------------|----------------------|---------------|------------------------|----------------|----------------|----------|
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H | 5150.00 | 34.48 | 17.18 | 51.66 | 68.20 | -16.54 | PK |
| V | 5150.00 | 37.17 | 17.18 | 54.35 | 68.20 | -13.85 | PK |
| | | | | | | | |
| Mode: | | 802.11a | | Frequency: | | 5260MHz | |
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H | 5150.00 | 25.27 | 17.18 | 42.45 | 54.00 | -11.55 | AV |
| V | 5150.00 | 27.46 | 17.18 | 44.64 | 54.00 | -9.36 | AV |
| | | | | | | | |
| Mode: | | 802.11a | | Frequency: | | 5320MHz | |
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H | 5350.00 | 33.48 | 17.18 | 50.66 | 68.20 | -17.54 | PK |
| V | 5350.00 | 34.61 | 17.18 | 51.79 | 68.20 | -16.41 | PK |
| | | | | | | | |
| Mode: | | 802.11a | | Frequency: | | 5320MHz | |
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H | 5350.00 | 23.75 | 17.18 | 40.93 | 54.00 | -13.07 | AV |
| V | 5350.00 | 24.79 | 17.18 | 41.97 | 54.00 | -12.03 | AV |

| Mode: | | 802.11n(HT20) | | Frequency: | | 5260MHz | |
|--------------|-----------------|----------------------|---------------|------------------------|----------------|----------------|----------|
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H | 5150.00 | 34.48 | 17.18 | 51.66 | 68.20 | -16.54 | PK |
| V | 5150.00 | 37.17 | 17.18 | 54.35 | 68.20 | -13.85 | PK |
| | | | | | | | |
| Mode: | | 802.11n(HT20) | | Frequency: | | 5260MHz | |
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H | 5150.00 | 24.82 | 17.18 | 42.00 | 54.00 | -12.00 | AV |
| V | 5150.00 | 27.70 | 17.18 | 44.88 | 54.00 | -9.12 | AV |
| | | | | | | | |
| Mode: | | 802.11n(HT20) | | Frequency: | | 5320MHz | |
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H | 5350.00 | 33.14 | 17.18 | 50.32 | 68.20 | -17.88 | PK |
| V | 5350.00 | 35.07 | 17.18 | 52.25 | 68.20 | -15.95 | PK |
| | | | | | | | |
| Mode: | | 802.11n(HT20) | | Frequency: | | 5320MHz | |
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H | 5350.00 | 24.30 | 17.18 | 41.48 | 54.00 | -12.52 | AV |
| V | 5350.00 | 25.30 | 17.18 | 42.48 | 54.00 | -11.52 | AV |

| Mode: | | 802.11ac(HT20) | | Frequency: | | 5260MHz | |
|--------------|-----------------|----------------------|---------------|------------------------|----------------|----------------|----------|
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H | 5150.00 | 34.20 | 17.18 | 51.38 | 68.20 | -16.82 | PK |
| V | 5150.00 | 36.68 | 17.18 | 53.86 | 68.20 | -14.34 | PK |
| Mode: | | 802.11ac(HT20) | | Frequency: | | 5260MHz | |
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H | 5150.00 | 25.04 | 17.18 | 42.22 | 54.00 | -11.78 | AV |
| V | 5150.00 | 27.05 | 17.18 | 44.23 | 54.00 | -9.77 | AV |
| Mode: | | 802.11ac(HT20) | | Frequency: | | 5320MHz | |
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H | 5350.00 | 33.34 | 17.18 | 50.52 | 68.20 | -17.68 | PK |
| V | 5350.00 | 34.82 | 17.18 | 52.00 | 68.20 | -16.20 | PK |
| Mode: | | 802.11ac(HT20) | | Frequency: | | 5320MHz | |
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H | 5350.00 | 24.22 | 17.18 | 41.40 | 54.00 | -12.60 | AV |
| V | 5350.00 | 25.36 | 17.18 | 42.54 | 54.00 | -11.46 | AV |

| Mode: | | 802.11n(HT40) | | Frequency: | | 5270MHz | |
|--------------|-----------------|----------------------|---------------|------------------------|----------------|----------------|----------|
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H | 5150.00 | 34.62 | 17.20 | 51.82 | 68.20 | -16.38 | PK |
| V | 5150.00 | 36.99 | 17.20 | 54.19 | 68.20 | -14.01 | PK |
| Mode: | | 802.11n(HT40) | | Frequency: | | 5270MHz | |
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H | 5150.00 | 24.98 | 17.20 | 42.18 | 54.00 | -11.82 | AV |
| V | 5150.00 | 27.20 | 17.20 | 44.40 | 54.00 | -9.60 | AV |
| Mode: | | 802.11n(HT40) | | Frequency: | | 5310MHz | |
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H | 5350.00 | 33.34 | 17.20 | 50.54 | 68.20 | -17.66 | PK |
| V | 5350.00 | 34.83 | 17.20 | 52.03 | 68.20 | -16.17 | PK |
| Mode: | | 802.11n(HT40) | | Frequency: | | 5310MHz | |
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H | 5350.00 | 23.89 | 17.18 | 41.07 | 54.00 | -12.93 | AV |
| V | 5350.00 | 25.01 | 17.18 | 42.19 | 54.00 | -11.81 | AV |

| Mode: | | 802.11ac(HT40) | | Frequency: | | 5270MHz | |
|--------------|-----------------|----------------------|---------------|------------------------|----------------|----------------|----------|
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H | 5150.00 | 34.38 | 17.20 | 51.58 | 68.20 | -16.62 | PK |
| V | 5150.00 | 37.07 | 17.20 | 54.27 | 68.20 | -13.93 | PK |
| | | | | | | | |
| Mode: | | 802.11ac(HT40) | | Frequency: | | 5270MHz | |
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H | 5150.00 | 24.94 | 17.18 | 42.12 | 54.00 | -11.88 | AV |
| V | 5150.00 | 27.75 | 17.18 | 44.93 | 54.00 | -9.07 | AV |
| | | | | | | | |
| Mode: | | 802.11ac(HT40) | | Frequency: | | 5310MHz | |
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H | 5350.00 | 32.85 | 17.20 | 50.05 | 68.20 | -18.15 | PK |
| V | 5350.00 | 34.92 | 17.20 | 52.12 | 68.20 | -16.08 | PK |
| | | | | | | | |
| Mode: | | 802.11ac(HT40) | | Frequency: | | 5310MHz | |
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H | 5350.00 | 23.91 | 17.20 | 41.11 | 54.00 | -12.89 | AV |
| V | 5350.00 | 24.78 | 17.20 | 41.98 | 54.00 | -12.02 | AV |

| Mode: | | 802.11ac(HT80) | | Frequency: | | 5290MHz | |
|--------------|-----------------|----------------------|---------------|------------------------|----------------|----------------|----------|
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H | 5150.00 | 34.87 | 17.20 | 52.07 | 68.20 | -16.13 | PK |
| V | 5150.00 | 36.51 | 17.20 | 53.71 | 68.20 | -14.49 | PK |
| | | | | | | | |
| Mode: | | 802.11ac(HT80) | | Frequency: | | 5290MHz | |
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H | 5150.00 | 25.09 | 17.18 | 42.27 | 54.00 | -11.73 | AV |
| V | 5150.00 | 27.35 | 17.18 | 44.53 | 54.00 | -9.47 | AV |
| | | | | | | | |
| Mode: | | 802.11ac(HT80) | | Frequency: | | 5290MHz | |
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H | 5350.00 | 33.30 | 17.20 | 50.50 | 68.20 | -17.70 | PK |
| V | 5350.00 | 34.86 | 17.20 | 52.06 | 68.20 | -16.14 | PK |
| | | | | | | | |
| Mode: | | 802.11ac(HT80) | | Frequency: | | 5290MHz | |
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H | 5350.00 | 24.12 | 17.20 | 41.32 | 54.00 | -12.68 | AV |
| V | 5350.00 | 24.89 | 17.20 | 42.09 | 54.00 | -11.91 | AV |

Band3

| Mode: | | 802.11a | | Frequency: | | 5500MHz | |
|--------------|-----------------|----------------------|---------------|------------------------|----------------|----------------|----------|
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H | 5470.00 | 34.75 | 17.18 | 51.93 | 68.20 | -16.27 | PK |
| V | 5470.00 | 36.93 | 17.18 | 54.11 | 68.20 | -14.09 | PK |
| | | | | | | | |
| Mode: | | 802.11a | | Frequency: | | 5500MHz | |
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H | 5470.00 | 25.36 | 17.18 | 42.54 | 54.00 | -11.46 | AV |
| V | 5470.00 | 27.57 | 17.18 | 44.75 | 54.00 | -9.25 | AV |
| | | | | | | | |
| Mode: | | 802.11a | | Frequency: | | 5700MHz | |
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H | 5850.00 | 32.89 | 17.18 | 50.07 | 68.20 | -18.13 | PK |
| V | 5850.00 | 34.97 | 17.18 | 52.15 | 68.20 | -16.05 | PK |
| | | | | | | | |
| Mode: | | 802.11a | | Frequency: | | 5700MHz | |
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H | 5850.00 | 23.62 | 17.18 | 40.80 | 54.00 | -13.20 | AV |
| V | 5850.00 | 25.25 | 17.18 | 42.43 | 54.00 | -11.57 | AV |

| Mode: | | 802.11n(HT20) | | Frequency: | | 5500MHz | |
|--------------|-----------------|----------------------|---------------|------------------------|----------------|----------------|----------|
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H | 5470.00 | 34.58 | 17.18 | 51.76 | 68.20 | -16.44 | PK |
| V | 5470.00 | 36.71 | 17.18 | 53.89 | 68.20 | -14.31 | PK |
| | | | | | | | |
| Mode: | | 802.11n(HT20) | | Frequency: | | 5500MHz | |
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H | 5470.00 | 25.07 | 17.18 | 42.25 | 54.00 | -11.75 | AV |
| V | 5470.00 | 27.64 | 17.18 | 44.82 | 54.00 | -9.18 | AV |
| | | | | | | | |
| Mode: | | 802.11n(HT20) | | Frequency: | | 5700MHz | |
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H | 55725.00 | 33.44 | 17.18 | 50.62 | 68.20 | -17.58 | PK |
| V | 5850.00 | 34.84 | 17.18 | 52.02 | 68.20 | -16.18 | PK |
| | | | | | | | |
| Mode: | | 802.11n(HT20) | | Frequency: | | 5700MHz | |
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV) | Factor (dB/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| H | 5850.00 | 24.06 | 17.18 | 41.24 | 54.00 | -12.76 | AV |
| V | 5850.00 | 24.87 | 17.18 | 42.05 | 54.00 | -11.95 | AV |

| Mode: | | 802.11ac(HT20) | | Frequency: | | 5500MHz | |
|--------------|-----------------|----------------|--------|---------------|----------------|----------------|----------|
| Antenna Pol. | Frequency (MHz) | Reading Level | Factor | Measure Level | Limit (dBuV/m) | Over limit(dB) | Detector |
| | | (dBuV) | (dB/m) | (dBuV/m) | | | |
| H | 5470.00 | 35.34 | 17.18 | 52.52 | 68.20 | -15.68 | PK |
| V | 5470.00 | 38.84 | 17.18 | 56.02 | 68.20 | -12.18 | PK |
| | | | | | | | |
| Mode: | | 802.11ac(HT20) | | Frequency: | | 5500MHz | |
| Antenna Pol. | Frequency (MHz) | Reading Level | Factor | Measure Level | Limit (dBuV/m) | Over limit(dB) | Detector |
| | | (dBuV) | (dB/m) | (dBuV/m) | | | |
| H | 5470.00 | 26.42 | 17.18 | 43.60 | 54.00 | -10.40 | AV |
| V | 5470.00 | 26.67 | 17.18 | 43.85 | 54.00 | -10.15 | AV |
| | | | | | | | |
| Mode: | | 802.11ac(HT20) | | Frequency: | | 5700MHz | |
| Antenna Pol. | Frequency (MHz) | Reading Level | Factor | Measure Level | Limit (dBuV/m) | Over limit(dB) | Detector |
| | | (dBuV) | (dB/m) | (dBuV/m) | | | |
| H | 5725.00 | 35.04 | 17.18 | 52.22 | 68.20 | -15.98 | PK |
| V | 5725.00 | 33.06 | 17.18 | 50.24 | 68.20 | -17.96 | PK |
| | | | | | | | |
| Mode: | | 802.11ac(HT20) | | Frequency: | | 5700MHz | |
| Antenna Pol. | Frequency (MHz) | Reading Level | Factor | Measure Level | Limit (dBuV/m) | Over limit(dB) | Detector |
| | | (dBuV) | (dB/m) | (dBuV/m) | | | |
| H | 5725.00 | 23.80 | 17.18 | 40.98 | 54.00 | -13.02 | AV |
| V | 5725.00 | 24.18 | 17.18 | 41.36 | 54.00 | -12.64 | AV |

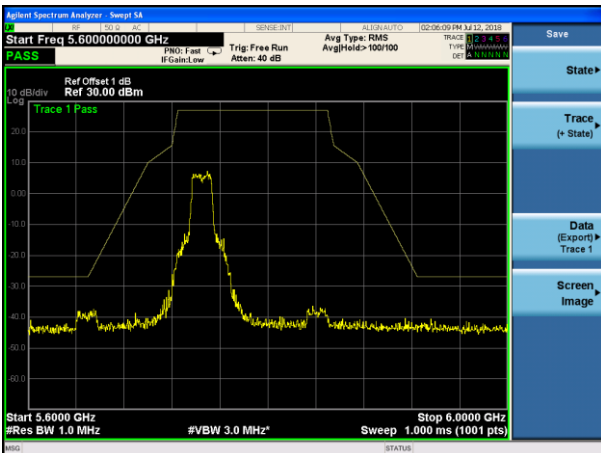
| Mode: | | 802.11n(HT40) | | Frequency: | | 5510MHz | |
|--------------|-----------------|---------------|--------|---------------|----------------|----------------|----------|
| Antenna Pol. | Frequency (MHz) | Reading Level | Factor | Measure Level | Limit (dBuV/m) | Over limit(dB) | Detector |
| | | (dBuV) | (dB/m) | (dBuV/m) | | | |
| H | 5470.00 | 33.73 | 17.20 | 50.93 | 68.20 | -17.27 | PK |
| V | 5470.00 | 35.83 | 17.20 | 53.03 | 68.20 | -15.17 | PK |
| Mode: | | 802.11n(HT40) | | Frequency: | | 5510MHz | |
| Antenna Pol. | Frequency (MHz) | Reading Level | Factor | Measure Level | Limit (dBuV/m) | Over limit(dB) | Detector |
| | | (dBuV) | (dB/m) | (dBuV/m) | | | |
| H | 5470.00 | 24.37 | 17.20 | 41.57 | 54.00 | -12.43 | AV |
| V | 5470.00 | 28.66 | 17.20 | 45.86 | 54.00 | -8.14 | AV |
| Mode: | | 802.11n(HT40) | | Frequency: | | 5670MHz | |
| Antenna Pol. | Frequency (MHz) | Reading Level | Factor | Measure Level | Limit (dBuV/m) | Over limit(dB) | Detector |
| | | (dBuV) | (dB/m) | (dBuV/m) | | | |
| H | 5725.00 | 32.00 | 17.20 | 49.20 | 68.20 | -19.00 | PK |
| V | 5725.00 | 32.95 | 17.20 | 50.15 | 68.20 | -18.05 | PK |
| Mode: | | 802.11n(HT40) | | Frequency: | | 5670MHz | |
| Antenna Pol. | Frequency (MHz) | Reading Level | Factor | Measure Level | Limit (dBuV/m) | Over limit(dB) | Detector |
| | | (dBuV) | (dB/m) | (dBuV/m) | | | |
| H | 5725.00 | 22.77 | 17.18 | 39.95 | 54.00 | -14.05 | AV |
| V | 5725.00 | 23.38 | 17.18 | 40.56 | 54.00 | -13.44 | AV |

| Mode: | | 802.11ac(HT40) | | Frequency: | | 5510MHz | |
|--------------|-----------------|----------------|--------|---------------|----------------|----------------|----------|
| Antenna Pol. | Frequency (MHz) | Reading Level | Factor | Measure Level | Limit (dBuV/m) | Over limit(dB) | Detector |
| | | (dBuV) | (dB/m) | (dBuV/m) | | | |
| H | 5470.00 | 34.80 | 17.20 | 52.00 | 68.20 | -16.20 | PK |
| V | 5470.00 | 36.41 | 17.20 | 53.61 | 68.20 | -14.59 | PK |
| Mode: | | 802.11ac(HT40) | | Frequency: | | 5510MHz | |
| Antenna Pol. | Frequency (MHz) | Reading Level | Factor | Measure Level | Limit (dBuV/m) | Over limit(dB) | Detector |
| | | (dBuV) | (dB/m) | (dBuV/m) | | | |
| H | 5470.00 | 23.34 | 17.18 | 40.52 | 54.00 | -13.48 | AV |
| V | 5470.00 | 27.81 | 17.18 | 44.99 | 54.00 | -9.01 | AV |
| Mode: | | 802.11ac(HT40) | | Frequency: | | 5670MHz | |
| Antenna Pol. | Frequency (MHz) | Reading Level | Factor | Measure Level | Limit (dBuV/m) | Over limit(dB) | Detector |
| | | (dBuV) | (dB/m) | (dBuV/m) | | | |
| H | 5725.00 | 34.45 | 17.20 | 51.65 | 68.20 | -16.55 | PK |
| V | 5725.00 | 32.87 | 17.20 | 50.07 | 68.20 | -18.13 | PK |
| Mode: | | 802.11ac(HT40) | | Frequency: | | 5670MHz | |
| Antenna Pol. | Frequency (MHz) | Reading Level | Factor | Measure Level | Limit (dBuV/m) | Over limit(dB) | Detector |
| | | (dBuV) | (dB/m) | (dBuV/m) | | | |
| H | 5725.00 | 22.60 | 17.20 | 39.80 | 54.00 | -14.20 | AV |
| V | 5725.00 | 24.20 | 17.20 | 41.40 | 54.00 | -12.60 | AV |

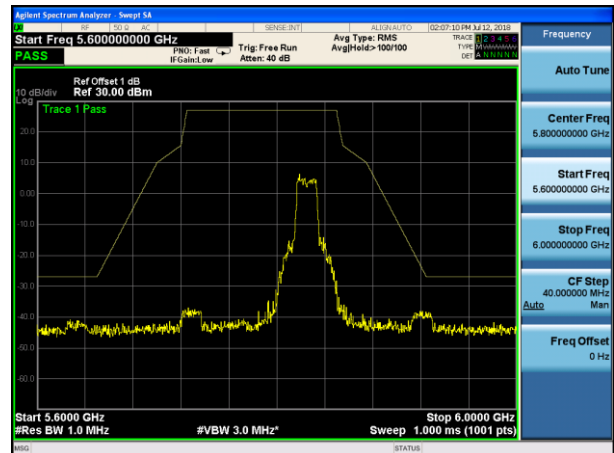
| Mode: | | 802.11ac(HT80) | | Frequency: | | 5530MHz | |
|--------------|-----------------|----------------|--------|---------------|----------------|----------------|----------|
| Antenna Pol. | Frequency (MHz) | Reading Level | Factor | Measure Level | Limit (dBuV/m) | Over limit(dB) | Detector |
| | | (dBuV) | (dB/m) | (dBuV/m) | | | |
| H | 5470.00 | 34.03 | 17.20 | 51.23 | 68.20 | -16.97 | PK |
| V | 5470.00 | 36.44 | 17.20 | 53.64 | 68.20 | -14.56 | PK |
| Mode: | | 802.11ac(HT80) | | Frequency: | | 5530MHz | |
| Antenna Pol. | Frequency (MHz) | Reading Level | Factor | Measure Level | Limit (dBuV/m) | Over limit(dB) | Detector |
| | | (dBuV) | (dB/m) | (dBuV/m) | | | |
| H | 5470.00 | 26.57 | 17.18 | 43.75 | 54.00 | -10.25 | AV |
| V | 5470.00 | 26.85 | 17.18 | 44.03 | 54.00 | -9.97 | AV |
| Mode: | | 802.11ac(HT80) | | Frequency: | | 5530MHz | |
| Antenna Pol. | Frequency (MHz) | Reading Level | Factor | Measure Level | Limit (dBuV/m) | Over limit(dB) | Detector |
| | | (dBuV) | (dB/m) | (dBuV/m) | | | |
| H | 5725.00 | 32.42 | 17.20 | 49.62 | 68.20 | -18.58 | PK |
| V | 5725.00 | 36.72 | 17.20 | 53.92 | 68.20 | -14.28 | PK |
| Mode: | | 802.11ac(HT80) | | Frequency: | | 5530MHz | |
| Antenna Pol. | Frequency (MHz) | Reading Level | Factor | Measure Level | Limit (dBuV/m) | Over limit(dB) | Detector |
| | | (dBuV) | (dB/m) | (dBuV/m) | | | |
| H | 5725.00 | 23.82 | 17.20 | 41.02 | 54.00 | -12.98 | AV |
| V | 5725.00 | 26.15 | 17.20 | 43.35 | 54.00 | -10.65 | AV |

Band4

802.11a

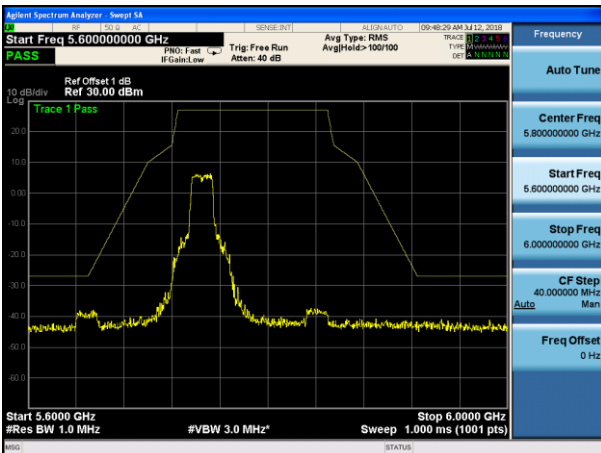


Low: 5745MHz

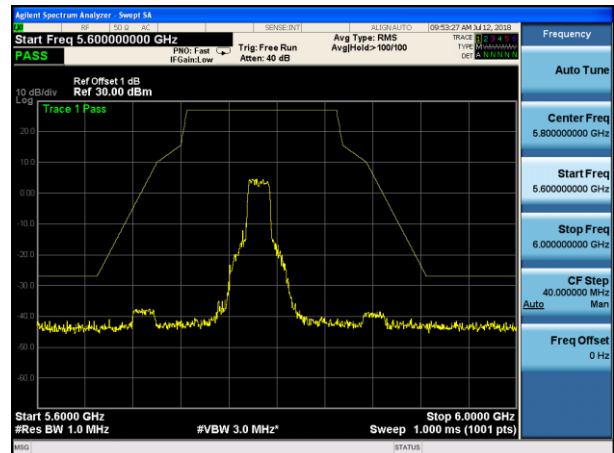


High: 5825MHz

802.11n(HT20)

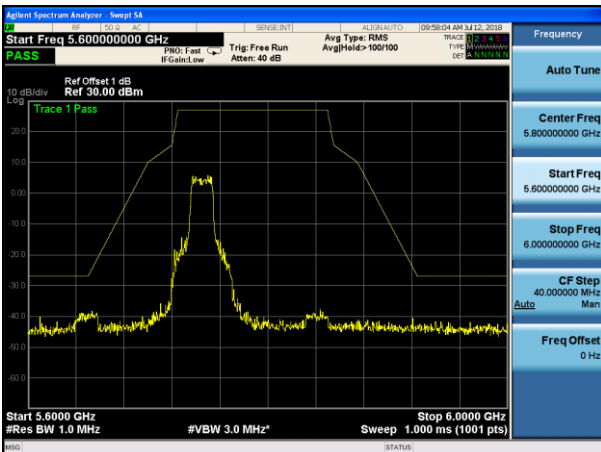


Low: 5745MHz

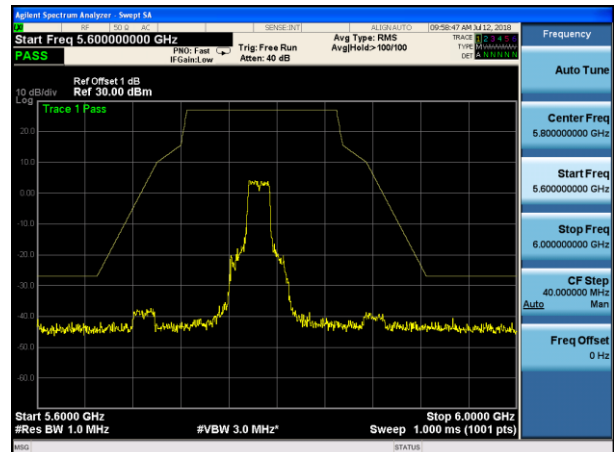


High: 5825MHz

802.11ac(HT20)

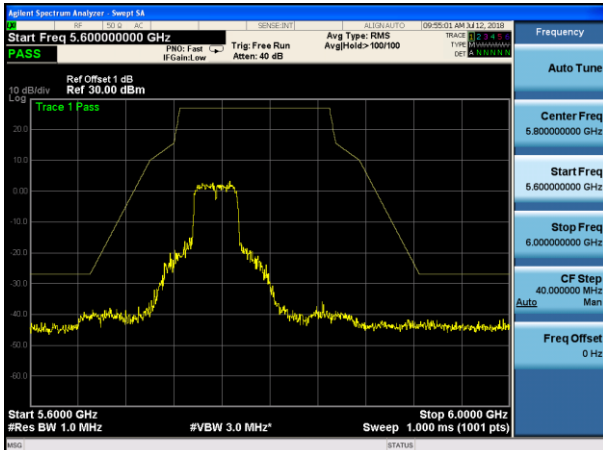


Low: 5745MHz

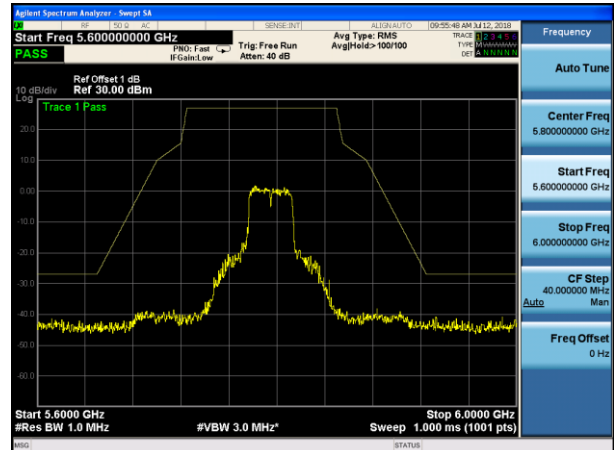


High: 5825MHz

802.11n(HT40)

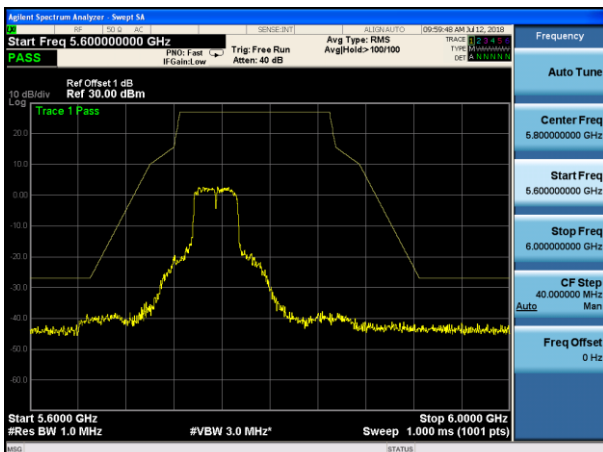


Low: 5755MHz

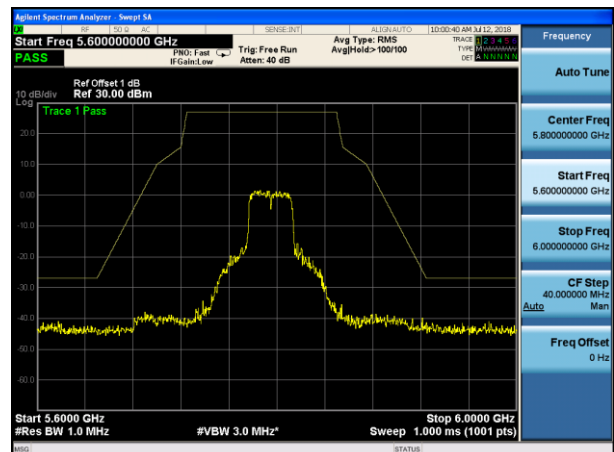


High: 5795MHz

802.11ac(HT40)

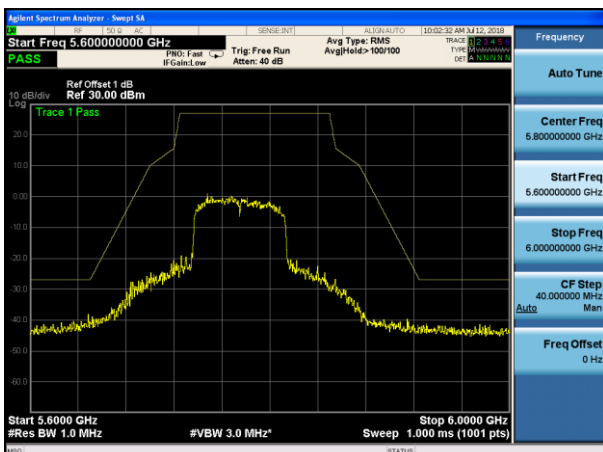


Low: 5755MHz



High: 5795MHz

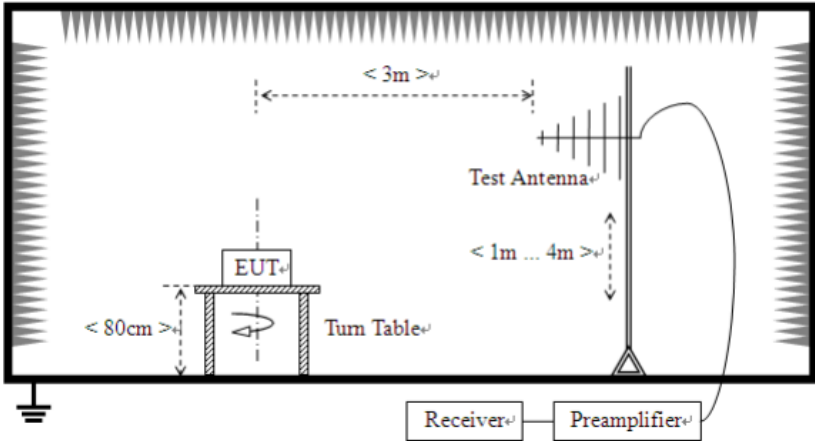
802.11ac(HT80)



5775MHz

7.7 Radiated Emission

| | | | | | |
|-----------------------|---|------------|--------------------|--------|------------------|
| Test Requirement: | FCC Part15 C Section 15.209 and 15.205 | | | | |
| Test Method: | ANSI C63.10:2013 | | | | |
| Test Frequency Range: | 30MHz to 40GHz | | | | |
| Test site: | Measurement Distance: 3m (Semi-Anechoic Chamber) | | | | |
| Receiver setup: | Frequency | Detector | RBW | VBW | Value |
| | 30MHz-1GHz | Quasi-peak | 100KHz | 300KHz | Quasi-peak Value |
| | Above 1GHz | Peak | 1MHz | 3MHz | Peak Value |
| | | AV | 1MHz | 3MHz | Average Value |
| Limit: | Frequency | | Limit (dBuV/m @3m) | | Remark |
| | 30MHz-88MHz | | 40.0 | | Quasi-peak Value |
| | 88MHz-216MHz | | 43.5 | | Quasi-peak Value |
| | 216MHz-960MHz | | 46.0 | | Quasi-peak Value |
| | 960MHz-1GHz | | 54.0 | | Quasi-peak Value |
| | Above 1GHz | | 68.2 | | Peak Value |
| Test Procedure: | <p>Substitution method was performed to determine the actual ERP emission levels of the EUT. The following test procedure as below:</p> <p>1>.Below 1GHz test procedure:</p> <ol style="list-style-type: none"> 1. The EUT was placed on the top of a rotating table (0.8m for below 1GHz and 1.5 meters for above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. <p>2>.Above 1GHz test procedure:</p> <ol style="list-style-type: none"> 1. On the test site as test setup graph above,the EUT shall be placed at the 0.8m support on the turntable and in the position closest to normal use as declared by the provider. 2. The test antenna shall be oriented initially for vertical polarization and shall be chosen to correspond to the frequency of the transmitter.The output of the test antenna shall be connected to the measuring | | | | |

| | |
|--------------------|---|
| | <p>receiver.</p> <ol style="list-style-type: none"> 3. The transmitter shall be switched on, if possible, without modulation and the measuring receiver shall be tuned to the frequency of the transmitter under test. 4. The test antenna shall be raised and lowered from 1m to 4m until a maximum signal level is detected by the measuring receiver. Then the turntable should be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver. 5. Repeat step 4 for test frequency with the test antenna polarized horizontally. 6. Remove the transmitter and replace it with a substitution antenna 7. Feed the substitution antenna at the transmitter end with a signal generator connected to the antenna by means of a nonradiating cable. With the antennas at both ends vertically polarized, and with the signal generator tuned to a particular test frequency, raise and lower the test antenna to obtain a maximum reading at the spectrum analyzer. Adjust the level of the signal generator output until the previously recorded maximum reading for this set of conditions is obtained. This should be done carefully repeating the adjustment of the test antenna and generator output. 8. Repeat step 7 with both antennas horizontally polarized for each test frequency. 9. Calculate power in dBm into a reference ideal half-wave dipole antenna by reducing the readings obtained in steps 7 and 8 by the power loss in the cable between the generator and the antenna, and further corrected for the gain of the substitution antenna used relative to an ideal half-wave dipole antenna by the following formula: $\text{EIRP(dBm)} = \text{Pg(dBm)} - \text{cable loss (dB)} + \text{antenna gain (dBi)}$ where: Pg is the generator output power into the substitution antenna. |
| <p>Test setup:</p> | <p>Below 1GHz</p>  <p>Above 1GHz</p> |

| | |
|--------------------------|--|
| | |
| <p>Test Instruments:</p> | <p>Refer to section 5.10 for details</p> |
| <p>Test mode:</p> | <p>Refer to section 5.3 for details</p> |
| <p>Test results:</p> | <p>Pass</p> |

Measurement Data:**Below 1GHz**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 33.10 | 48.11 | 11.25 | 0.59 | 30.08 | 29.87 | 40.00 | -10.13 | Vertical |
| 54.45 | 40.73 | 11.93 | 0.81 | 29.96 | 23.51 | 40.00 | -16.49 | Vertical |
| 120.28 | 46.20 | 9.4 | 1.36 | 29.57 | 27.39 | 43.50 | -16.11 | Vertical |
| 172.00 | 42.54 | 8.5 | 1.7 | 29.31 | 23.43 | 43.50 | -20.07 | Vertical |
| 440.20 | 36.52 | 16.29 | 3.05 | 29.41 | 26.45 | 46.00 | -19.55 | Vertical |
| 860.04 | 32.66 | 21.83 | 4.69 | 29.14 | 30.04 | 46.00 | -15.96 | Vertical |
| 64.21 | 35.48 | 8.73 | 0.9 | 29.89 | 15.22 | 40.00 | -24.78 | Horizontal |
| 99.53 | 33.64 | 11.73 | 1.19 | 29.7 | 16.86 | 43.50 | -26.64 | Horizontal |
| 269.43 | 45.17 | 12.53 | 2.22 | 29.79 | 30.13 | 46.00 | -15.87 | Horizontal |
| 350.48 | 35.81 | 14.5 | 2.62 | 29.73 | 23.20 | 46.00 | -22.80 | Horizontal |
| 627.27 | 35.05 | 19.43 | 3.83 | 29.27 | 29.04 | 46.00 | -16.96 | Horizontal |
| 955.44 | 40.32 | 22.54 | 5.06 | 29.1 | 38.82 | 46.00 | -7.18 | Horizontal |

Above 1GHz:

802.11a(HT20) 5180MHz

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 10360 | 30.10 | 39.67 | 14.62 | 32.65 | 51.74 | 74.00 | -22.26 | Vertical |
| 15540 | 30.36 | 38.60 | 17.66 | 34.46 | 52.16 | 74.00 | -21.84 | Vertical |
| 10360 | 31.28 | 39.67 | 14.62 | 32.65 | 52.92 | 74.00 | -21.08 | Horizontal |
| 15540 | 31.08 | 38.60 | 17.66 | 34.46 | 52.88 | 74.00 | -21.12 | Horizontal |

802.11a(HT20) 5200MHz

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 10400 | 31.80 | 39.67 | 14.62 | 32.65 | 53.44 | 74.00 | -20.56 | Vertical |
| 15600 | 28.61 | 38.60 | 17.66 | 34.46 | 50.41 | 74.00 | -23.59 | Vertical |
| 10400 | 31.70 | 39.67 | 14.62 | 32.65 | 53.34 | 74.00 | -20.66 | Horizontal |
| 15600 | 30.66 | 38.60 | 17.66 | 34.46 | 52.46 | 74.00 | -21.54 | Horizontal |

802.11a(HT20) 5240MHz

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 10480 | 29.57 | 39.67 | 14.62 | 32.65 | 51.21 | 74.00 | -22.79 | Vertical |
| 15720 | 28.60 | 38.60 | 17.66 | 34.46 | 50.40 | 74.00 | -23.60 | Vertical |
| 10480 | 31.35 | 39.67 | 14.62 | 32.65 | 52.99 | 74.00 | -21.01 | Horizontal |
| 15720 | 29.80 | 38.60 | 17.66 | 34.46 | 51.60 | 74.00 | -22.40 | Horizontal |

802.11n(HT20) 5180MHz

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 10360 | 29.33 | 39.67 | 14.62 | 32.65 | 50.97 | 74.00 | -23.03 | Vertical |
| 15540 | 30.00 | 38.60 | 17.66 | 34.46 | 51.80 | 74.00 | -22.20 | Vertical |
| 10360 | 30.79 | 39.67 | 14.62 | 32.65 | 52.43 | 74.00 | -21.57 | Horizontal |
| 15540 | 31.92 | 38.60 | 17.66 | 34.46 | 53.72 | 74.00 | -20.28 | Horizontal |

802.11n(HT20) 5200MHz

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 10400 | 31.43 | 39.67 | 14.62 | 32.65 | 53.07 | 74.00 | -20.93 | Vertical |
| 15600 | 29.39 | 38.60 | 17.66 | 34.46 | 51.19 | 74.00 | -22.81 | Vertical |
| 10400 | 32.04 | 39.67 | 14.62 | 32.65 | 53.68 | 74.00 | -20.32 | Horizontal |
| 15600 | 30.55 | 38.60 | 17.66 | 34.46 | 52.35 | 74.00 | -21.65 | Horizontal |

802.11n(HT20) 5240MHz

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 10480 | 31.47 | 39.67 | 14.62 | 32.65 | 53.11 | 74.00 | -20.89 | Vertical |
| 15720 | 28.66 | 38.60 | 17.66 | 34.46 | 50.46 | 74.00 | -23.54 | Vertical |
| 10480 | 29.68 | 39.67 | 14.62 | 32.65 | 51.32 | 74.00 | -22.68 | Horizontal |
| 15720 | 30.29 | 38.60 | 17.66 | 34.46 | 52.09 | 74.00 | -21.91 | Horizontal |

802.11ac(HT20) 5180MHz

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 10360 | 29.75 | 39.67 | 14.62 | 32.65 | 51.39 | 74.00 | -22.61 | Vertical |
| 15540 | 31.03 | 38.60 | 17.66 | 34.46 | 52.83 | 74.00 | -21.17 | Vertical |
| 10360 | 32.28 | 39.67 | 14.62 | 32.65 | 53.92 | 74.00 | -20.08 | Horizontal |
| 15540 | 31.45 | 38.60 | 17.66 | 34.46 | 53.25 | 74.00 | -20.75 | Horizontal |

802.11ac(HT20) 5200MHz

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 10400 | 30.03 | 39.67 | 14.62 | 32.65 | 51.67 | 74.00 | -22.33 | Vertical |
| 15600 | 30.84 | 38.60 | 17.66 | 34.46 | 52.64 | 74.00 | -21.36 | Vertical |
| 10400 | 30.15 | 39.67 | 14.62 | 32.65 | 51.79 | 74.00 | -22.21 | Horizontal |
| 15600 | 31.58 | 38.60 | 17.66 | 34.46 | 53.38 | 74.00 | -20.62 | Horizontal |

802.11ac(HT20) 5240MHz

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 10480 | 32.66 | 39.67 | 14.62 | 32.65 | 54.30 | 74.00 | -19.70 | Vertical |
| 15720 | 32.28 | 38.60 | 17.66 | 34.46 | 54.08 | 74.00 | -19.92 | Vertical |
| 10480 | 31.78 | 39.67 | 14.62 | 32.65 | 53.42 | 74.00 | -20.58 | Horizontal |
| 15720 | 30.94 | 38.60 | 17.66 | 34.46 | 52.74 | 74.00 | -21.26 | Horizontal |

802.11n(HT40) 5190MHz

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 10380 | 29.10 | 39.67 | 14.62 | 32.65 | 50.74 | 74.00 | -23.26 | Vertical |
| 15570 | 29.96 | 38.60 | 17.66 | 34.46 | 51.76 | 74.00 | -22.24 | Vertical |
| 10380 | 30.41 | 39.67 | 14.62 | 32.65 | 52.05 | 74.00 | -21.95 | Horizontal |
| 15570 | 30.17 | 38.60 | 17.66 | 34.46 | 51.97 | 74.00 | -22.03 | Horizontal |

802.11n(HT40) 5230MHz

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 10460 | 29.43 | 39.67 | 14.62 | 32.65 | 51.07 | 74.00 | -22.93 | Vertical |
| 15690 | 29.34 | 38.60 | 17.66 | 34.46 | 51.14 | 74.00 | -22.86 | Vertical |
| 10460 | 29.88 | 39.67 | 14.62 | 32.65 | 51.52 | 74.00 | -22.48 | Horizontal |
| 15690 | 31.85 | 38.60 | 17.66 | 34.46 | 53.65 | 74.00 | -20.35 | Horizontal |

802.11ac(HT40) 5190MHz

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 10380 | 31.92 | 39.67 | 14.62 | 32.65 | 53.56 | 74.00 | -20.44 | Vertical |
| 15570 | 29.48 | 38.60 | 17.66 | 34.46 | 51.28 | 74.00 | -22.72 | Vertical |
| 10380 | 31.06 | 39.67 | 14.62 | 32.65 | 52.70 | 74.00 | -21.30 | Horizontal |
| 15570 | 29.52 | 38.60 | 17.66 | 34.46 | 51.32 | 74.00 | -22.68 | Horizontal |

802.11ac(HT40) 5230MHz

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 10460 | 30.63 | 39.67 | 14.62 | 32.65 | 52.27 | 74.00 | -21.73 | Vertical |
| 15690 | 31.00 | 38.60 | 17.66 | 34.46 | 52.80 | 74.00 | -21.20 | Vertical |
| 10460 | 31.18 | 39.67 | 14.62 | 32.65 | 52.82 | 74.00 | -21.18 | Horizontal |
| 15690 | 31.58 | 38.60 | 17.66 | 34.46 | 53.38 | 74.00 | -20.62 | Horizontal |

802.11ac(HT80) 5210MHz

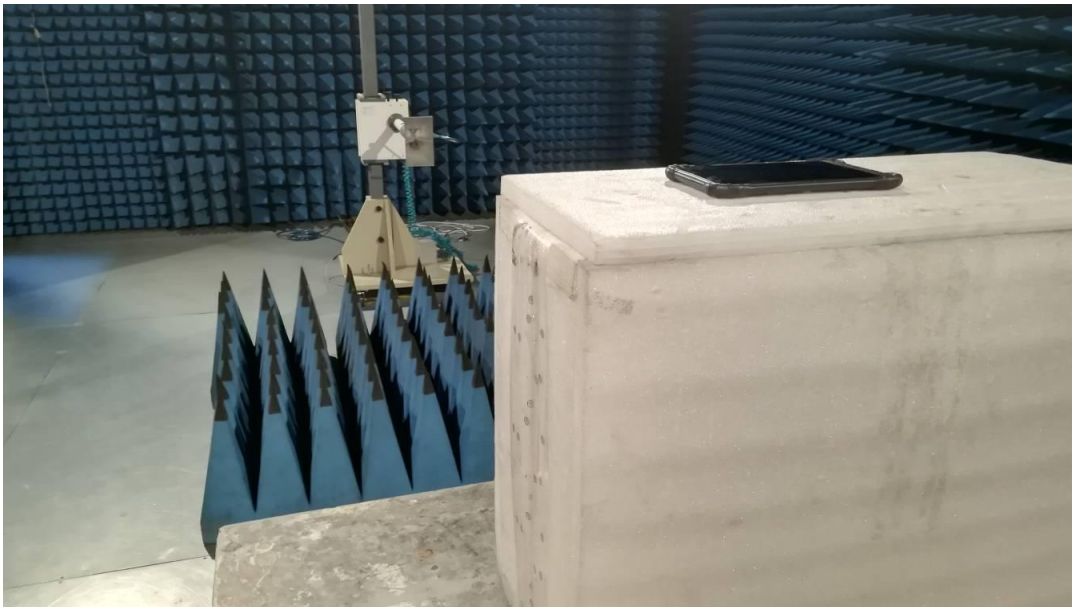
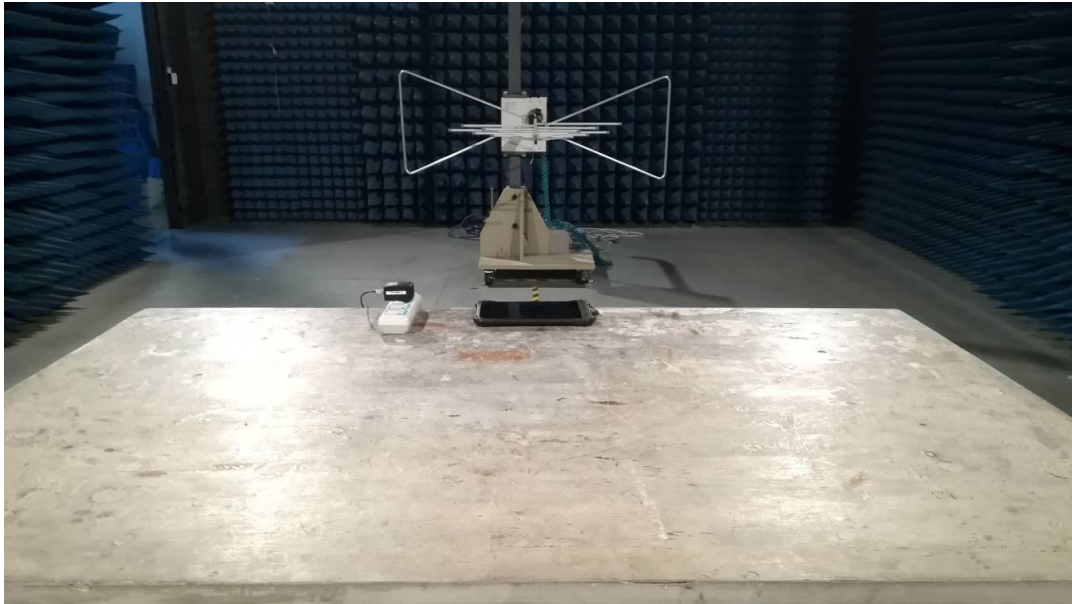
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 10420 | 29.11 | 39.67 | 14.62 | 32.65 | 50.75 | 74.00 | -23.25 | Vertical |
| 15630 | 31.28 | 38.6 | 17.66 | 34.46 | 53.08 | 74.00 | -20.92 | Vertical |
| 10420 | 30.06 | 39.67 | 14.62 | 32.65 | 51.70 | 74.00 | -22.30 | Horizontal |
| 15630 | 30.28 | 38.6 | 17.66 | 34.46 | 52.08 | 74.00 | -21.92 | Horizontal |

Note:

1. Level = Read Level + Antenna Factor+ Cable loss- Preamp Factor.
2. The test trace is same as the ambient noise (the test frequency range: 18GHz~40GHz), therefore no data appear in the report.
3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

8 Test Setup Photo

Radiated Emission



Conducted Emission



9 EUT Constructional Details

Reference to the test report No. T1880102 01

---END---