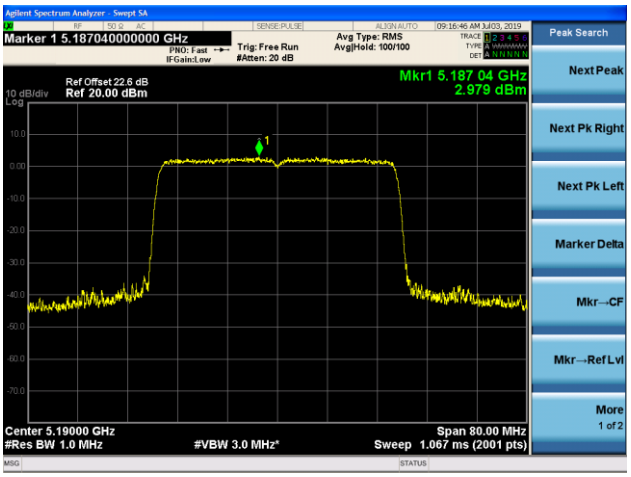
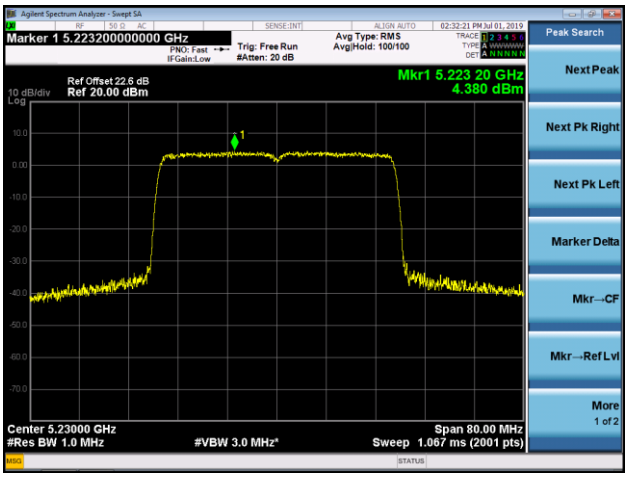
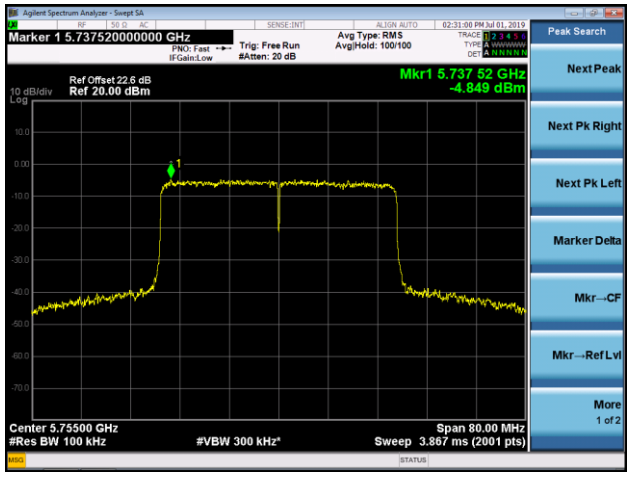
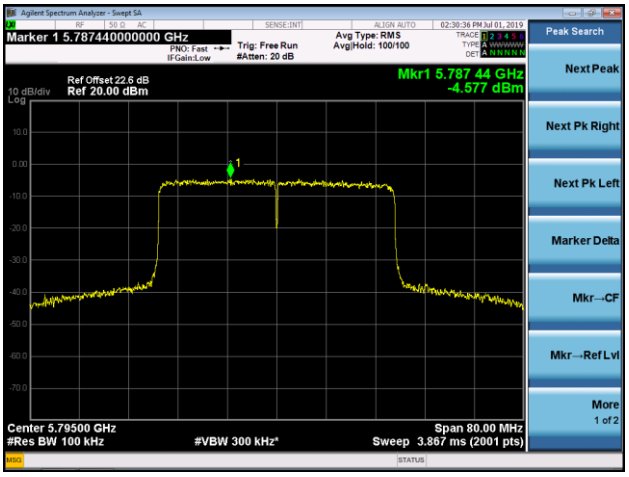
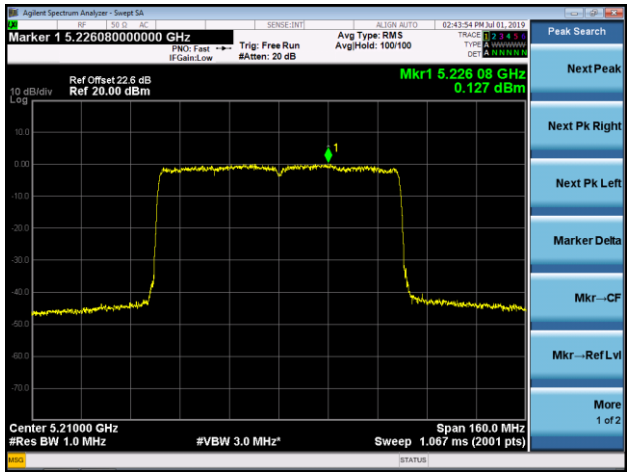
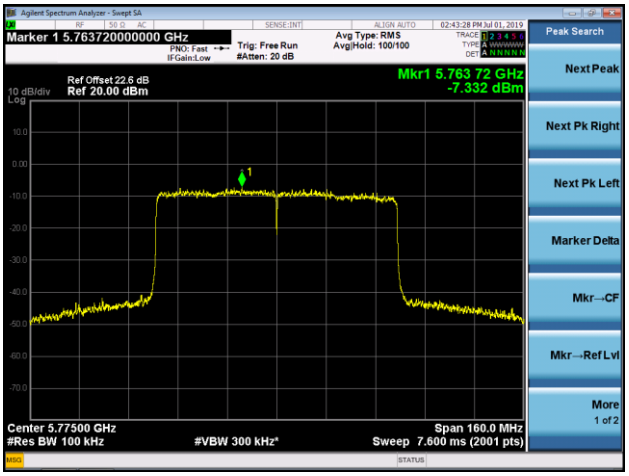
| 802.11ax-HE40 Power Spectral Density - Ant 1 / Ant 0 + 1 | |
|---|---|
| Channel 38 (5190MHz) | Channel 46 (5230MHz) |
|  |  |
| Channel 151 (5755MHz) | Channel 159 (5795MHz) |
|  |  |
| 802.11ax-HE80 Power Spectral Density - Ant 1 / Ant 0 + 1 | |
| Channel 42 (5210MHz) | Channel 155 (5775MHz) |
|  |  |

## 7.7. Frequency Stability Measurement

### 7.7.1.Test Limit

Manufactures of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

The transmitter center frequency tolerance shall be ±20 ppm maximum for the 5GHz band (IEEE 802.11 specification).

### 7.7.2.Test Procedure Used

While maintaining a constant temperature inside the environmental chamber, turn the EUT on and record the operating frequency at startup, and at 2 minutes, 5 minutes, and 10 minutes after the EUT is energized. Four measurements in total are made.

**Frequency Stability Under Temperature Variations:**

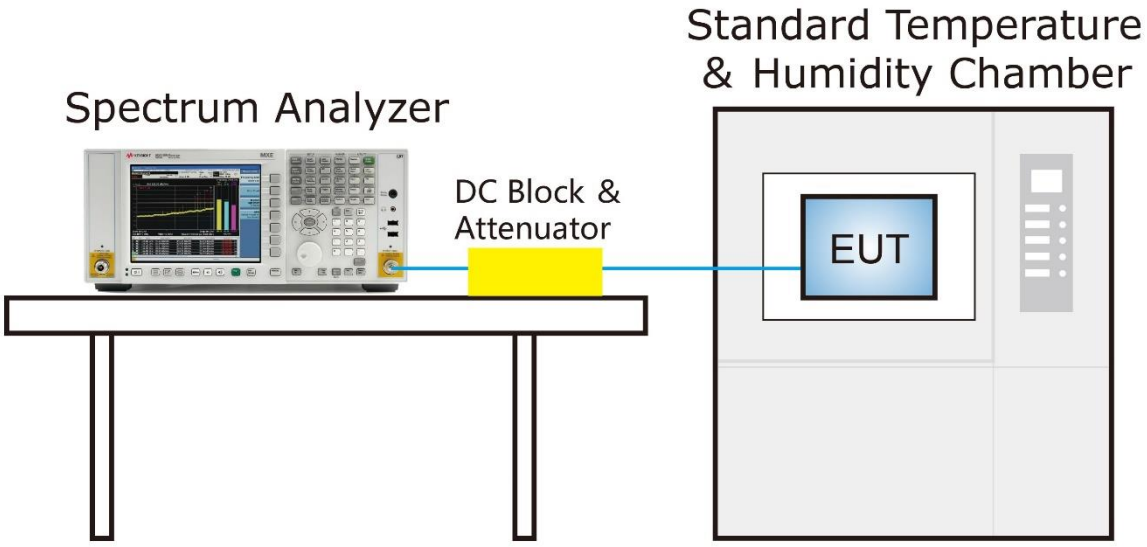
The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to highest. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C decreased per stage until the lowest temperature reached.

**Frequency Stability Under Voltage Variations:**

Set chamber temperature to 20°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation (±15%) and endpoint, recordthe maximum frequency change.

### 7.7.3.Test Setup



### 7.7.4.Test Result

| Test Engineer | Kevin Ker | Temperature | -30 ~ 50°C |
|---|---|---|---|
| Test Time | 2019/06/16 | Relative Humidity | 48 ~ 55%RH |
| Test Mode | 5180MHz (Carrier Mode) | Test Site | SR2 |

| Voltage (%) | Power (VAC) | Temp (℃) | Frequency Tolerance (ppm) | | | |
|---|---|---|---|---|---|---|
| | | | 0 minutes | 2 minutes | 5 minutes | 10 minutes |
| 100% | 120 | - 30 | -5.41 | -5.82 | -5.72 | -5.48 |
| | | - 20 | -5.53 | -5.51 | -5.27 | -4.84 |
| | | - 10 | -5.54 | -5.64 | -5.38 | -4.77 |
| | | 0 | -5.55 | -5.83 | -5.51 | -4.78 |
| | | + 10 | -5.56 | -5.40 | -5.68 | -4.82 |
| | | + 20 (Ref) | -5.57 | -5.09 | -5.12 | -5.15 |
| | | + 30 | -5.59 | -5.89 | -5.22 | -5.04 |
| | | + 40 | -5.60 | -5.19 | -5.47 | -5.66 |
| | | + 50 | -5.62 | -5.87 | -5.87 | -5.49 |
| 115% | 138 | + 20 | -5.66 | -5.57 | -5.64 | -5.69 |
| 85% | 102 | + 20 | -5.68 | -5.74 | -5.13 | -5.37 |

Note: Frequency Tolerance (ppm) = {[Measured Frequency (Hz) - Declared Frequency (Hz)] / Declared Frequency (Hz)} *$10^6$.

## 7.8. Radiated Spurious Emission Measurement

### 7.8.1.Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47CFR must not exceed the limits shown in Table per Section 15.209.

| FCC Part 15 Subpart C Paragraph 15.209 | | |
|---|---|---|
| Frequency [MHz] | Field Strength [uV/m] | Measured Distance [Meters] |
| 0.009 - 0.490 | 2400/F (kHz) | 300 |
| 0.490 - 1.705 | 24000/F (kHz) | 30 |
| 1.705 - 30 | 30 | 30 |
| 30 - 88 | 100 | 3 |
| 88 - 216 | 150 | 3 |
| 216 - 960 | 200 | 3 |
| Above 960 | 500 | 3 |

### 7.8.2.Test Procedure Used

ANSI C63.10 Section 6.3 (General Requirements)

ANSI C63.10 Section 6.4 (Standard test method below 30MHz)

ANSI C63.10 Section 6.5 (Standard test method above 30MHz to 1GHz)

ANSI C63.10 Section 6.6 (Standard test method above 1GHz)

### 7.8.3.Test Setting

**Table 1 - RBW as a function of frequency**

| Frequency | RBW |
|---|---|
| 9 ~ 150 kHz | 200 ~ 300 Hz |
| 0.15 ~ 30 MHz | 9 ~ 10 kHz |
| 30 ~ 1000 MHz | 100 ~ 120 kHz |

**Quasi-Peak Measurements below 1GHz**

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest

2. Span was set greater than 1MHz

3. RBW = as specified in Table 1

4. Detector = CISPR quasi-peak

5. Sweep time = auto couple

6. Trace was allowed to stabilize

**Peak Measurements above 1GHz**

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest

2. RBW = 1MHz

3. VBW = 3MHz

4. Detector = peak

5. Sweep time = auto couple

6. Trace mode = max hold

7. Trace was allowed to stabilize

**Average Measurements above 1GHz (Method VB)**

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest

2. RBW = 1MHz

3. VBW; If the EUT is configured to transmit with duty cycle ≥ 98%, set VBW = 10 Hz.

If the EUT duty cycle is < 98%, set VBW ≥ 1/T. T is the minimum transmission duration.

4. Detector = Peak

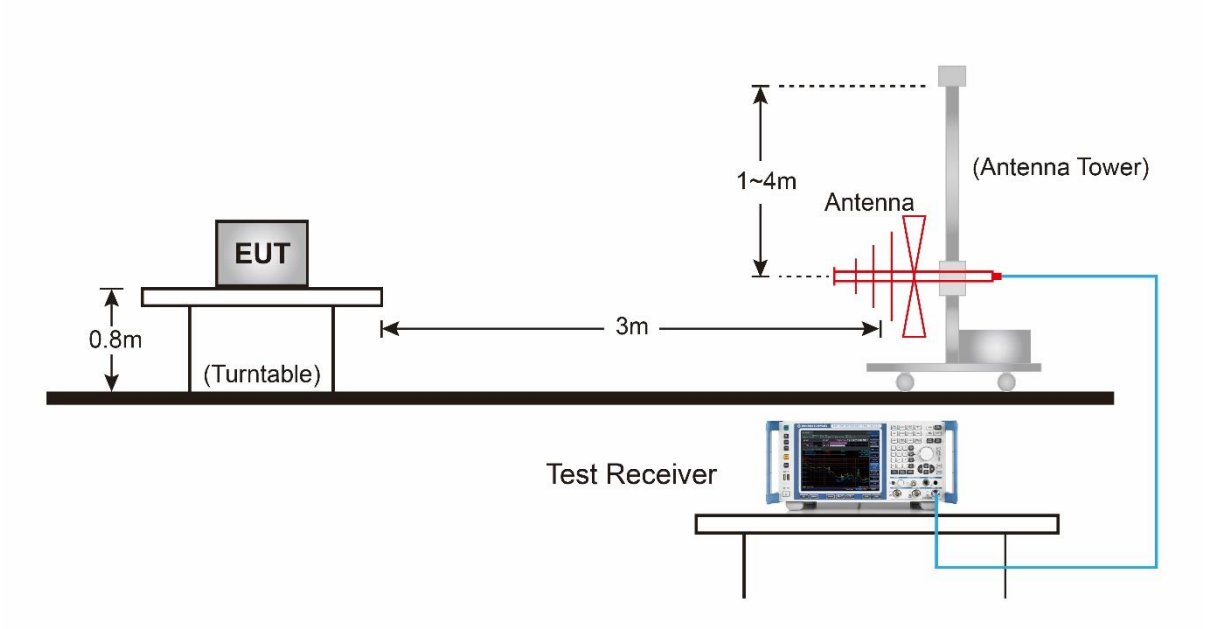
5. Sweep time = auto

6. Trace mode = max hold

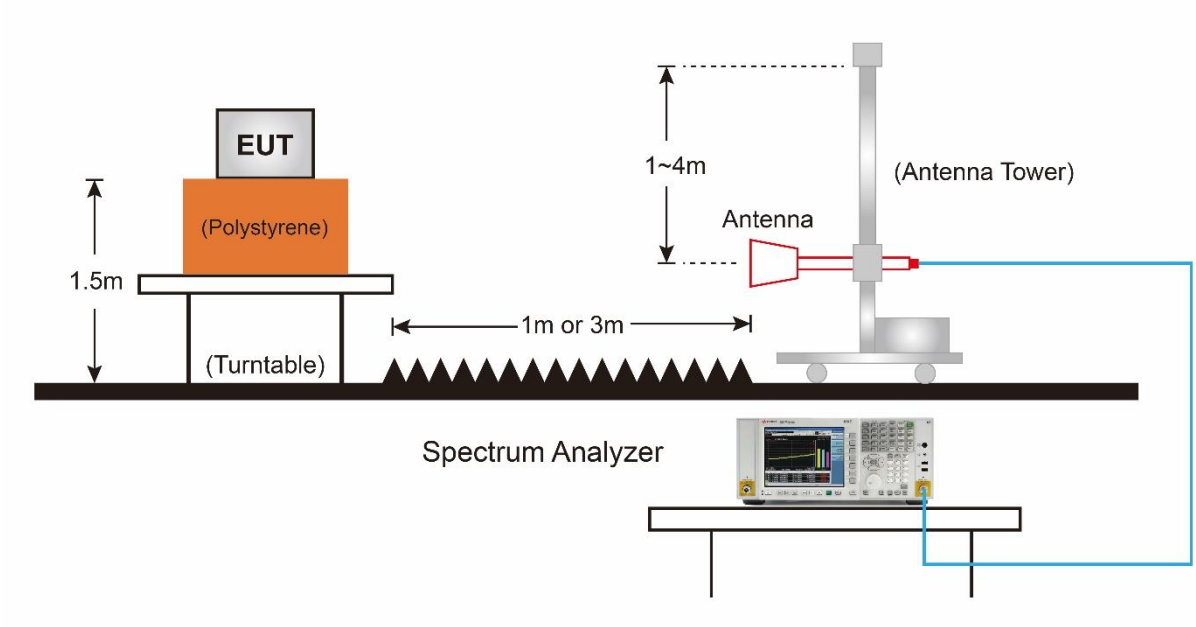
7. Trace was allowed to stabilize

### 7.8.4.Test Setup

Below 1GHz Test Setup:




Above 1GHz Test Setup:




Note: This item was performed with the Wi-Fi antenna connected.

### 7.8.5.Test Result

**For APIN0504 - Omni Antenna (AP-ANT-20W)**

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/29 |
| Test Mode: | 802.11a - Ant 0 + 1 | Test Channel: | 36 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8760.5 | 33.5 | 13.8 | 47.3 | 68.2 | -20.9 | Peak | Horizontal |
| * | 9925.0 | 32.9 | 15.6 | 48.4 | 68.2 | -19.8 | Peak | Horizontal |
| | 10877.0 | 32.8 | 18.8 | 51.6 | 54.0 | -2.4 | Peak | Horizontal |
| | 12254.0 | 30.8 | 18.6 | 49.3 | 54.0 | -4.7 | Peak | Horizontal |
| * | 8786.0 | 32.8 | 13.9 | 46.7 | 68.2 | -21.5 | Peak | Vertical |
| * | 9721.0 | 33.2 | 15.1 | 48.3 | 68.2 | -19.9 | Peak | Vertical |
| | 10996.0 | 31.2 | 19.1 | 50.3 | 54.0 | -3.7 | Peak | Vertical |
| | 12220.0 | 30.8 | 18.6 | 49.4 | 54.0 | -4.6 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/29 |
| Test Mode: | 802.11a - Ant 0 + 1 | Test Channel: | 44 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8692.5 | 33.1 | 13.6 | 46.8 | 68.2 | -21.4 | Peak | Horizontal |
| * | 9789.0 | 33.2 | 15.3 | 48.5 | 68.2 | -19.7 | Peak | Horizontal |
| | 10928.0 | 32.0 | 18.9 | 50.9 | 54.0 | -3.1 | Peak | Horizontal |
| | 12381.5 | 30.7 | 18.4 | 49.1 | 54.0 | -4.9 | Peak | Horizontal |
| * | 8641.5 | 34.0 | 13.5 | 47.5 | 68.2 | -20.7 | Peak | Vertical |
| * | 9823.0 | 33.3 | 15.4 | 48.6 | 68.2 | -19.6 | Peak | Vertical |
| | 10690.0 | 31.3 | 18.4 | 49.7 | 54.0 | -4.3 | Peak | Vertical |
| | 12330.5 | 30.7 | 18.5 | 49.1 | 54.0 | -4.9 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/29 |
| Test Mode: | 802.11a - Ant 0 + 1 | Test Channel: | 48 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8803.0 | 32.7 | 13.9 | 46.6 | 68.2 | -21.6 | Peak | Horizontal |
| * | 9899.5 | 33.3 | 15.5 | 48.9 | 68.2 | -19.3 | Peak | Horizontal |
| | 11463.5 | 31.5 | 19.2 | 50.7 | 54.0 | -3.3 | Peak | Horizontal |
| | 15773.0 | 30.0 | 21.0 | 51.0 | 54.0 | -3.0 | Peak | Horizontal |
| * | 8743.5 | 33.9 | 13.8 | 47.6 | 68.2 | -20.6 | Peak | Vertical |
| * | 10078.0 | 32.6 | 16.1 | 48.7 | 68.2 | -19.5 | Peak | Vertical |
| | 11038.5 | 30.6 | 19.1 | 49.7 | 54.0 | -4.3 | Peak | Vertical |
| | 12364.5 | 30.7 | 18.4 | 49.1 | 54.0 | -4.9 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/29 |
| Test Mode: | 802.11a - Ant 0 + 1 | Test Channel: | 149 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8701.0 | 35.4 | 13.6 | 49.1 | 68.2 | -19.1 | Peak | Horizontal |
| * | 9772.0 | 34.1 | 15.2 | 49.3 | 68.2 | -18.9 | Peak | Horizontal |
| | 10996.0 | 30.8 | 19.1 | 49.9 | 54.0 | -4.1 | Peak | Horizontal |
| | 12407.0 | 30.5 | 18.4 | 48.9 | 54.0 | -5.1 | Peak | Horizontal |
| * | 8769.0 | 34.5 | 13.8 | 48.3 | 68.2 | -19.9 | Peak | Vertical |
| * | 9772.0 | 32.9 | 15.2 | 48.1 | 68.2 | -20.1 | Peak | Vertical |
| | 11081.0 | 31.5 | 19.1 | 50.6 | 54.0 | -3.4 | Peak | Vertical |
| | 12517.5 | 30.2 | 18.3 | 48.5 | 54.0 | -5.5 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/29 |
| Test Mode: | 802.11a - Ant 0 + 1 | Test Channel: | 157 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8718.0 | 34.3 | 13.7 | 48.0 | 68.2 | -20.2 | Peak | Horizontal |
| * | 9721.0 | 33.4 | 15.1 | 48.6 | 68.2 | -19.6 | Peak | Horizontal |
| | 10758.0 | 30.9 | 18.5 | 49.4 | 54.0 | -4.6 | Peak | Horizontal |
| | 12432.5 | 30.3 | 18.4 | 48.6 | 54.0 | -5.4 | Peak | Horizontal |
| * | 8624.5 | 33.8 | 13.5 | 47.2 | 68.2 | -21.0 | Peak | Vertical |
| * | 9678.5 | 33.2 | 15.0 | 48.3 | 68.2 | -19.9 | Peak | Vertical |
| | 11242.5 | 30.6 | 19.2 | 49.8 | 54.0 | -4.2 | Peak | Vertical |
| | 12424.0 | 30.7 | 18.4 | 49.0 | 54.0 | -5.0 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/29 |
| Test Mode: | 802.11a - Ant 0 + 1 | Test Channel: | 165 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8658.5 | 34.9 | 13.5 | 48.5 | 68.2 | -19.7 | Peak | Horizontal |
| * | 10095.0 | 31.7 | 16.2 | 47.9 | 68.2 | -20.3 | Peak | Horizontal |
| | 11829.0 | 29.8 | 19.0 | 48.8 | 54.0 | -5.2 | Peak | Horizontal |
| | 15569.0 | 27.7 | 21.7 | 49.5 | 54.0 | -4.5 | Peak | Horizontal |
| * | 8760.5 | 32.3 | 13.8 | 46.1 | 68.2 | -22.1 | Peak | Vertical |
| * | 9585.0 | 32.6 | 14.8 | 47.4 | 68.2 | -20.8 | Peak | Vertical |
| | 10732.5 | 30.7 | 18.5 | 49.2 | 54.0 | -4.8 | Peak | Vertical |
| | 12509.0 | 30.2 | 18.3 | 48.5 | 54.0 | -5.5 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/29 |
| Test Mode: | 802.11ac-VHT20 - Ant 0 + 1 | Test Channel: | 36 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8777.5 | 34.6 | 13.8 | 48.4 | 68.2 | -19.8 | Peak | Horizontal |
| * | 10086.5 | 31.4 | 16.1 | 47.5 | 68.2 | -20.7 | Peak | Horizontal |
| | 10928.0 | 32.8 | 18.9 | 51.7 | 54.0 | -2.3 | Peak | Horizontal |
| | 12169.0 | 31.3 | 18.6 | 49.9 | 54.0 | -4.1 | Peak | Horizontal |
| * | 8718.0 | 33.6 | 13.7 | 47.3 | 68.2 | -20.9 | Peak | Vertical |
| * | 9857.0 | 34.0 | 15.4 | 49.4 | 68.2 | -18.8 | Peak | Vertical |
| | 10987.5 | 31.4 | 19.1 | 50.5 | 54.0 | -3.5 | Peak | Vertical |
| | 12364.5 | 30.6 | 18.4 | 49.0 | 54.0 | -5.0 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/29 |
| Test Mode: | 802.11ac-VHT20 - Ant 0 + 1 | Test Channel: | 44 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8701.0 | 33.6 | 13.6 | 47.3 | 68.2 | -20.9 | Peak | Horizontal |
| * | 10035.5 | 32.1 | 15.9 | 48.0 | 68.2 | -20.2 | Peak | Horizontal |
| | 11812.0 | 29.7 | 19.0 | 48.7 | 54.0 | -5.3 | Peak | Horizontal |
| | 15866.5 | 27.7 | 20.7 | 48.4 | 54.0 | -5.6 | Peak | Horizontal |
| * | 8862.5 | 34.3 | 14.0 | 48.4 | 68.2 | -19.8 | Peak | Vertical |
| * | 9857.0 | 33.7 | 15.4 | 49.1 | 68.2 | -19.1 | Peak | Vertical |
| | 11217.0 | 30.6 | 19.2 | 49.8 | 54.0 | -4.2 | Peak | Vertical |
| | 15773.0 | 28.2 | 21.0 | 49.2 | 54.0 | -4.8 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/29 |
| Test Mode: | 802.11ac-VHT20 - Ant 0 + 1 | Test Channel: | 48 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8786.0 | 33.6 | 13.9 | 47.4 | 68.2 | -20.8 | Peak | Horizontal |
| * | 9899.5 | 33.3 | 15.5 | 48.8 | 68.2 | -19.4 | Peak | Horizontal |
| | 11200.0 | 30.9 | 19.1 | 50.1 | 54.0 | -3.9 | Peak | Horizontal |
| | 15705.0 | 29.2 | 21.2 | 50.4 | 54.0 | -3.6 | Peak | Horizontal |
| * | 8854.0 | 34.3 | 14.0 | 48.3 | 68.2 | -19.9 | Peak | Vertical |
| * | 9772.0 | 33.9 | 15.2 | 49.1 | 68.2 | -19.1 | Peak | Vertical |
| | 10996.0 | 30.7 | 19.1 | 49.7 | 54.0 | -4.3 | Peak | Vertical |
| | 15543.5 | 27.6 | 21.8 | 49.4 | 54.0 | -4.6 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/29 |
| Test Mode: | 802.11ac-VHT20 - Ant 0 + 1 | Test Channel: | 149 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBµV) | Factor (dB) | Measure Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8650.0 | 33.4 | 13.5 | 46.9 | 68.2 | -21.3 | Peak | Horizontal |
| * | 9763.5 | 32.7 | 15.2 | 47.9 | 68.2 | -20.3 | Peak | Horizontal |
| | 11004.5 | 30.4 | 19.1 | 49.5 | 54.0 | -4.5 | Peak | Horizontal |
| | 12271.0 | 31.8 | 18.5 | 50.4 | 54.0 | -3.6 | Peak | Horizontal |
| * | 8599.0 | 33.8 | 13.4 | 47.2 | 68.2 | -21.0 | Peak | Vertical |
| * | 10078.0 | 31.7 | 16.1 | 47.9 | 68.2 | -20.3 | Peak | Vertical |
| | 10970.5 | 31.7 | 19.0 | 50.7 | 54.0 | -3.3 | Peak | Vertical |
| | 12330.5 | 30.5 | 18.5 | 49.0 | 54.0 | -5.0 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBµV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/29 |
| Test Mode: | 802.11ac-VHT20 - Ant 0 + 1 | Test Channel: | 157 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8582.0 | 34.8 | 13.4 | 48.2 | 68.2 | -20.0 | Peak | Horizontal |
| * | 10052.5 | 32.4 | 16.0 | 48.4 | 68.2 | -19.8 | Peak | Horizontal |
| | 10996.0 | 30.4 | 19.1 | 49.5 | 54.0 | -4.5 | Peak | Horizontal |
| | 12330.5 | 30.4 | 18.5 | 48.8 | 54.0 | -5.2 | Peak | Horizontal |
| * | 8616.0 | 32.8 | 13.4 | 46.3 | 68.2 | -22.0 | Peak | Vertical |
| * | 9789.0 | 32.3 | 15.3 | 47.5 | 68.2 | -20.7 | Peak | Vertical |
| | 10732.5 | 31.5 | 18.5 | 49.9 | 54.0 | -4.1 | Peak | Vertical |
| | 12109.5 | 30.4 | 18.7 | 49.1 | 54.0 | -4.9 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/29 |
| Test Mode: | 802.11ac-VHT20 - Ant 0 + 1 | Test Channel: | 165 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8769.0 | 33.2 | 13.8 | 47.1 | 68.2 | -21.1 | Peak | Horizontal |
| * | 9874.0 | 32.9 | 15.5 | 48.4 | 68.2 | -19.8 | Peak | Horizontal |
| | 11072.5 | 31.2 | 19.1 | 50.3 | 54.0 | -3.7 | Peak | Horizontal |
| | 12007.5 | 30.6 | 18.8 | 49.4 | 54.0 | -4.6 | Peak | Horizontal |
| * | 8675.5 | 33.2 | 13.6 | 46.8 | 68.2 | -21.4 | Peak | Vertical |
| * | 9840.0 | 32.4 | 15.4 | 47.8 | 68.2 | -20.4 | Peak | Vertical |
| | 11055.5 | 33.3 | 19.1 | 52.4 | 54.0 | -1.6 | Peak | Vertical |
| | 12364.5 | 30.6 | 18.4 | 49.0 | 54.0 | -5.0 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/29 |
| Test Mode: | 802.11ac-VHT40 - Ant 0 + 1 | Test Channel: | 38 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8624.5 | 33.7 | 13.5 | 47.2 | 68.2 | -21.0 | Peak | Horizontal |
| * | 10052.5 | 34.5 | 16.0 | 50.4 | 68.2 | -17.8 | Peak | Horizontal |
| | 10987.5 | 31.1 | 19.1 | 50.2 | 54.0 | -3.8 | Peak | Horizontal |
| | 12585.5 | 30.0 | 18.5 | 48.5 | 54.0 | -5.5 | Peak | Horizontal |
| * | 8752.0 | 33.2 | 13.8 | 47.0 | 68.2 | -21.2 | Peak | Vertical |
| * | 9916.5 | 32.2 | 15.6 | 47.7 | 68.2 | -20.5 | Peak | Vertical |
| | 11030.0 | 30.3 | 19.1 | 49.4 | 54.0 | -4.6 | Peak | Vertical |
| | 12509.0 | 30.4 | 18.3 | 48.7 | 54.0 | -5.3 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/29 |
| Test Mode: | 802.11ac-VHT40 - Ant 0 + 1 | Test Channel: | 46 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8735.0 | 32.7 | 13.7 | 46.4 | 68.2 | -21.8 | Peak | Horizontal |
| * | 9729.5 | 32.6 | 15.1 | 47.7 | 68.2 | -20.5 | Peak | Horizontal |
| | 11225.5 | 31.1 | 19.2 | 50.3 | 54.0 | -3.7 | Peak | Horizontal |
| | 12585.5 | 30.3 | 18.5 | 48.8 | 54.0 | -5.2 | Peak | Horizontal |
| * | 8752.0 | 33.6 | 13.8 | 47.4 | 68.2 | -20.8 | Peak | Vertical |
| * | 9653.0 | 32.3 | 15.0 | 47.3 | 68.2 | -20.9 | Peak | Vertical |
| | 11004.5 | 30.2 | 19.1 | 49.3 | 54.0 | -4.7 | Peak | Vertical |
| | 12381.5 | 30.8 | 18.4 | 49.2 | 54.0 | -4.8 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/29 |
| Test Mode: | 802.11ac-VHT40 - Ant 0 + 1 | Test Channel: | 151 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8735.0 | 33.5 | 13.7 | 47.2 | 68.2 | -21.0 | Peak | Horizontal |
| * | 10078.0 | 32.6 | 16.1 | 48.7 | 68.2 | -19.5 | Peak | Horizontal |
| | 11897.0 | 30.2 | 18.9 | 49.1 | 54.0 | -4.9 | Peak | Horizontal |
| | 15790.0 | 28.1 | 20.9 | 49.0 | 54.0 | -5.0 | Peak | Horizontal |
| * | 8752.0 | 32.4 | 13.8 | 46.1 | 68.2 | -22.1 | Peak | Vertical |
| * | 9916.5 | 32.3 | 15.6 | 47.9 | 68.2 | -20.3 | Peak | Vertical |
| | 11523.0 | 30.0 | 19.2 | 49.3 | 54.0 | -4.7 | Peak | Vertical |
| | 15960.0 | 28.0 | 20.3 | 48.4 | 54.0 | -5.6 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/29 |
| Test Mode: | 802.11ac-VHT40 - Ant 0 + 1 | Test Channel: | 159 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8735.0 | 35.3 | 13.7 | 49.1 | 68.2 | -19.1 | Peak | Horizontal |
| * | 10095.0 | 34.3 | 16.2 | 50.5 | 68.2 | -17.7 | Peak | Horizontal |
| | 11633.5 | 32.1 | 19.1 | 51.2 | 54.0 | -2.8 | Peak | Horizontal |
| | 16062.0 | 30.0 | 20.4 | 50.4 | 54.0 | -3.6 | Peak | Horizontal |
| * | 8718.0 | 32.2 | 13.7 | 45.9 | 68.2 | -22.3 | Peak | Vertical |
| * | 10078.0 | 31.6 | 16.1 | 47.7 | 68.2 | -20.5 | Peak | Vertical |
| | 11633.5 | 30.7 | 19.1 | 49.8 | 54.0 | -4.2 | Peak | Vertical |
| | 15841.0 | 27.6 | 20.8 | 48.4 | 54.0 | -5.6 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/29 |
| Test Mode: | 802.11ac-VHT80 - Ant 0 + 1 | Test Channel: | 42 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8667.0 | 34.8 | 13.6 | 48.4 | 68.2 | -19.8 | Peak | Horizontal |
| * | 9942.0 | 33.7 | 15.6 | 49.3 | 68.2 | -18.9 | Peak | Horizontal |
| | 11200.0 | 30.4 | 19.1 | 49.5 | 54.0 | -4.5 | Peak | Horizontal |
| | 16019.5 | 27.9 | 20.3 | 48.2 | 54.0 | -5.8 | Peak | Horizontal |
| * | 8752.0 | 34.3 | 13.8 | 48.1 | 68.2 | -20.1 | Peak | Vertical |
| * | 9678.5 | 33.2 | 15.0 | 48.2 | 68.2 | -20.0 | Peak | Vertical |
| | 11174.5 | 30.5 | 19.1 | 49.6 | 54.0 | -4.4 | Peak | Vertical |
| | 15790.0 | 27.8 | 20.9 | 48.8 | 54.0 | -5.2 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/29 |
| Test Mode: | 802.11ac-VHT80 - Ant 0 + 1 | Test Channel: | 155 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8692.5 | 33.0 | 13.6 | 46.7 | 68.2 | -21.5 | Peak | Horizontal |
| * | 10001.5 | 32.1 | 15.8 | 47.8 | 68.2 | -20.4 | Peak | Horizontal |
| | 11684.5 | 30.5 | 19.1 | 49.6 | 54.0 | -4.4 | Peak | Horizontal |
| | 15790.0 | 27.1 | 20.9 | 48.1 | 54.0 | -5.9 | Peak | Horizontal |
| * | 8590.5 | 33.1 | 13.4 | 46.4 | 68.2 | -21.8 | Peak | Vertical |
| * | 9925.0 | 32.1 | 15.6 | 47.7 | 68.2 | -20.5 | Peak | Vertical |
| | 11812.0 | 29.7 | 19.0 | 48.7 | 54.0 | -5.3 | Peak | Vertical |
| | 15849.5 | 27.3 | 20.7 | 48.1 | 54.0 | -5.9 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/29 |
| Test Mode: | 802.11ax-HE20 - Ant 0 + 1 | Test Channel: | 36 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBµV) | Factor (dB) | Measure Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8811.5 | 33.7 | 13.9 | 47.6 | 68.2 | -20.6 | Peak | Horizontal |
| * | 10358.5 | 31.4 | 17.3 | 48.8 | 68.2 | -19.4 | Peak | Horizontal |
| | 11812.0 | 29.5 | 19.0 | 48.5 | 54.0 | -5.5 | Peak | Horizontal |
| | 15858.0 | 27.4 | 20.7 | 48.2 | 54.0 | -5.8 | Peak | Horizontal |
| * | 8692.5 | 34.3 | 13.6 | 47.9 | 68.2 | -20.3 | Peak | Vertical |
| * | 10129.0 | 31.6 | 16.3 | 47.9 | 68.2 | -20.3 | Peak | Vertical |
| | 11956.5 | 29.9 | 18.9 | 48.8 | 54.0 | -5.2 | Peak | Vertical |
| | 15858.0 | 27.3 | 20.7 | 48.0 | 54.0 | -6.0 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBµV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/29 |
| Test Mode: | 802.11ax-HE20 - Ant 0 + 1 | Test Channel: | 44 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8582.0 | 33.2 | 13.4 | 46.6 | 68.2 | -21.6 | Peak | Horizontal |
| * | 9678.5 | 33.6 | 15.0 | 48.6 | 68.2 | -19.6 | Peak | Horizontal |
| | 11531.5 | 30.1 | 19.2 | 49.3 | 54.0 | -4.7 | Peak | Horizontal |
| | 15790.0 | 27.4 | 20.9 | 48.3 | 54.0 | -5.7 | Peak | Horizontal |
| * | 8794.5 | 33.9 | 13.9 | 47.8 | 68.2 | -20.4 | Peak | Vertical |
| * | 10307.5 | 31.1 | 17.1 | 48.2 | 68.2 | -20.0 | Peak | Vertical |
| | 12101.0 | 29.7 | 18.7 | 48.4 | 54.0 | -5.6 | Peak | Vertical |
| | 15492.5 | 28.8 | 21.9 | 50.7 | 54.0 | -3.3 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/29 |
| Test Mode: | 802.11ax-HE20 - Ant 0 + 1 | Test Channel: | 48 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8888.0 | 34.4 | 14.1 | 48.5 | 68.2 | -19.7 | Peak | Horizontal |
| * | 10001.5 | 32.6 | 15.8 | 48.3 | 68.2 | -19.9 | Peak | Horizontal |
| | 11276.5 | 30.6 | 19.2 | 49.7 | 54.0 | -4.3 | Peak | Horizontal |
| | 15960.0 | 28.5 | 20.3 | 48.8 | 54.0 | -5.2 | Peak | Horizontal |
| * | 8905.0 | 34.1 | 14.1 | 48.3 | 68.2 | -19.9 | Peak | Vertical |
| * | 10197.0 | 31.4 | 16.6 | 48.1 | 68.2 | -20.1 | Peak | Vertical |
| | 11837.5 | 29.7 | 19.0 | 48.7 | 54.0 | -5.3 | Peak | Vertical |
| | 15637.0 | 28.5 | 21.5 | 50.0 | 54.0 | -4.0 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/29 |
| Test Mode: | 802.11ax-HE20 - Ant 0 + 1 | Test Channel: | 149 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8667.0 | 32.2 | 13.6 | 45.7 | 68.2 | -22.5 | Peak | Horizontal |
| * | 10061.0 | 31.7 | 16.0 | 47.7 | 68.2 | -20.5 | Peak | Horizontal |
| | 11684.5 | 30.5 | 19.1 | 49.6 | 54.0 | -4.4 | Peak | Horizontal |
| | 15960.0 | 27.8 | 20.3 | 48.2 | 54.0 | -5.8 | Peak | Horizontal |
| * | 8684.0 | 32.0 | 13.6 | 45.6 | 68.2 | -22.6 | Peak | Vertical |
| * | 9976.0 | 31.8 | 15.7 | 47.5 | 68.2 | -20.7 | Peak | Vertical |
| | 12169.0 | 30.8 | 18.6 | 49.4 | 54.0 | -4.6 | Peak | Vertical |
| | 15849.5 | 27.7 | 20.7 | 48.5 | 54.0 | -5.5 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/29 |
| Test Mode: | 802.11ax-HE20 - Ant 0 + 1 | Test Channel: | 157 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8718.0 | 33.2 | 13.7 | 46.9 | 68.2 | -21.3 | Peak | Horizontal |
| * | 9814.5 | 31.9 | 15.3 | 47.3 | 68.2 | -20.9 | Peak | Horizontal |
| | 11327.5 | 31.2 | 19.2 | 50.4 | 54.0 | -3.6 | Peak | Horizontal |
| | 15841.0 | 27.1 | 20.8 | 47.8 | 54.0 | -6.2 | Peak | Horizontal |
| * | 8743.5 | 32.0 | 13.8 | 45.7 | 68.2 | -22.5 | Peak | Vertical |
| * | 10171.5 | 31.3 | 16.5 | 47.8 | 68.2 | -20.4 | Peak | Vertical |
| | 12339.0 | 29.7 | 18.5 | 48.2 | 54.0 | -5.8 | Peak | Vertical |
| | 15849.5 | 27.0 | 20.7 | 47.7 | 54.0 | -6.3 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/29 |
| Test Mode: | 802.11ax-HE20 - Ant 0 + 1 | Test Channel: | 165 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBµV) | Factor (dB) | Measure Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8658.5 | 32.6 | 13.5 | 46.2 | 68.2 | -22.0 | Peak | Horizontal |
| * | 10443.5 | 30.7 | 17.7 | 48.4 | 68.2 | -19.8 | Peak | Horizontal |
| | 12381.5 | 29.9 | 18.4 | 48.4 | 54.0 | -5.6 | Peak | Horizontal |
| | 15594.5 | 27.4 | 21.6 | 49.0 | 54.0 | -5.0 | Peak | Horizontal |
| * | 8658.5 | 32.7 | 13.5 | 46.3 | 68.2 | -21.9 | Peak | Vertical |
| * | 9899.5 | 32.6 | 15.5 | 48.1 | 68.2 | -20.1 | Peak | Vertical |
| | 11854.5 | 28.8 | 18.9 | 47.8 | 54.0 | -6.2 | Peak | Vertical |
| | 16028.0 | 28.4 | 20.3 | 48.8 | 54.0 | -5.2 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBµV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/29 |
| Test Mode: | 802.11ax-HE40 - Ant 0 + 1 | Test Channel: | 38 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBµV) | Factor (dB) | Measure Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8769.0 | 34.2 | 13.8 | 48.0 | 68.2 | -20.2 | Peak | Horizontal |
| * | 9874.0 | 31.9 | 15.5 | 47.3 | 68.2 | -20.9 | Peak | Horizontal |
| | 11234.0 | 29.9 | 19.2 | 49.1 | 54.0 | -4.9 | Peak | Horizontal |
| | 15841.0 | 27.0 | 20.8 | 47.7 | 54.0 | -6.3 | Peak | Horizontal |
| * | 8777.5 | 33.3 | 13.8 | 47.1 | 68.2 | -21.1 | Peak | Vertical |
| * | 10078.0 | 31.6 | 16.1 | 47.7 | 68.2 | -20.5 | Peak | Vertical |
| | 11914.0 | 29.9 | 18.9 | 48.8 | 54.0 | -5.2 | Peak | Vertical |
| | 15866.5 | 27.8 | 20.7 | 48.4 | 54.0 | -5.6 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBµV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/29 |
| Test Mode: | 802.11ax-HE40 - Ant 0 + 1 | Test Channel: | 46 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBµV) | Factor (dB) | Measure Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8633.0 | 34.8 | 13.5 | 48.3 | 68.2 | -19.9 | Peak | Horizontal |
| * | 9840.0 | 32.1 | 15.4 | 47.5 | 68.2 | -20.7 | Peak | Horizontal |
| | 11846.0 | 29.7 | 19.0 | 48.7 | 54.0 | -5.3 | Peak | Horizontal |
| | 15849.5 | 27.9 | 20.7 | 48.6 | 54.0 | -5.4 | Peak | Horizontal |
| * | 8794.5 | 34.3 | 13.9 | 48.1 | 68.2 | -20.1 | Peak | Vertical |
| * | 10010.0 | 32.2 | 15.8 | 48.0 | 68.2 | -20.2 | Peak | Vertical |
| | 11846.0 | 29.9 | 19.0 | 48.8 | 54.0 | -5.2 | Peak | Vertical |
| | 15560.5 | 28.8 | 21.7 | 50.5 | 54.0 | -3.5 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBµV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/29 |
| Test Mode: | 802.11ax-HE40 - Ant 0 + 1 | Test Channel: | 151 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8650.0 | 32.3 | 13.5 | 45.8 | 68.2 | -22.4 | Peak | Horizontal |
| * | 10401.0 | 31.4 | 17.5 | 48.9 | 68.2 | -19.3 | Peak | Horizontal |
| | 12356.0 | 30.0 | 18.5 | 48.4 | 54.0 | -5.6 | Peak | Horizontal |
| | 15705.0 | 28.3 | 21.2 | 49.5 | 54.0 | -4.5 | Peak | Horizontal |
| * | 8854.0 | 31.4 | 14.0 | 45.4 | 68.2 | -22.8 | Peak | Vertical |
| * | 10061.0 | 31.6 | 16.0 | 47.7 | 68.2 | -20.5 | Peak | Vertical |
| | 12075.5 | 29.6 | 18.7 | 48.3 | 54.0 | -5.7 | Peak | Vertical |
| | 15705.0 | 28.8 | 21.2 | 50.0 | 54.0 | -4.0 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/29 |
| Test Mode: | 802.11ax-HE40 - Ant 0 + 1 | Test Channel: | 159 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8786.0 | 34.0 | 13.9 | 47.9 | 68.2 | -20.3 | Peak | Horizontal |
| * | 9636.0 | 33.3 | 14.9 | 48.2 | 68.2 | -20.0 | Peak | Horizontal |
| | 11574.0 | 31.3 | 19.2 | 50.5 | 54.0 | -3.5 | Peak | Horizontal |
| | 15492.5 | 26.8 | 21.9 | 48.7 | 54.0 | -5.3 | Peak | Horizontal |
| * | 8854.0 | 34.9 | 14.0 | 48.9 | 68.2 | -19.3 | Peak | Vertical |
| * | 10443.5 | 30.4 | 17.7 | 48.1 | 68.2 | -20.1 | Peak | Vertical |
| | 12339.0 | 29.5 | 18.5 | 48.0 | 54.0 | -6.0 | Peak | Vertical |
| | 15756.0 | 26.9 | 21.1 | 48.0 | 54.0 | -6.0 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/29 |
| Test Mode: | 802.11ax-HE80 - Ant 0 + 1 | Test Channel: | 42 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBµV) | Factor (dB) | Measure Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8777.5 | 31.5 | 13.8 | 45.4 | 68.2 | -22.8 | Peak | Horizontal |
| * | 10086.5 | 31.4 | 16.1 | 47.6 | 68.2 | -20.6 | Peak | Horizontal |
| | 12084.0 | 29.5 | 18.7 | 48.2 | 54.0 | -5.8 | Peak | Horizontal |
| | 15781.5 | 27.2 | 21.0 | 48.1 | 54.0 | -5.9 | Peak | Horizontal |
| * | 8743.5 | 33.0 | 13.8 | 46.7 | 68.2 | -21.5 | Peak | Vertical |
| * | 9942.0 | 32.4 | 15.6 | 48.0 | 68.2 | -20.2 | Peak | Vertical |
| | 11455.0 | 30.1 | 19.2 | 49.4 | 54.0 | -4.6 | Peak | Vertical |
| | 15841.0 | 27.2 | 20.8 | 48.0 | 54.0 | -6.0 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBµV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/29 |
| Test Mode: | 802.11ax-HE80 - Ant 0 + 1 | Test Channel: | 155 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBµV) | Factor (dB) | Measure Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8735.0 | 34.2 | 13.7 | 47.9 | 68.2 | -20.3 | Peak | Horizontal |
| * | 10350.0 | 32.3 | 17.3 | 49.6 | 68.2 | -18.6 | Peak | Horizontal |
| | 11812.0 | 29.8 | 19.0 | 48.7 | 54.0 | -5.3 | Peak | Horizontal |
| | 15637.0 | 28.6 | 21.5 | 50.1 | 54.0 | -3.9 | Peak | Horizontal |
| * | 8760.5 | 34.1 | 13.8 | 47.9 | 68.2 | -20.3 | Peak | Vertical |
| * | 9942.0 | 33.0 | 15.6 | 48.6 | 68.2 | -19.6 | Peak | Vertical |
| | 11378.5 | 31.7 | 19.2 | 50.9 | 54.0 | -3.1 | Peak | Vertical |
| | 15815.5 | 27.3 | 20.9 | 48.1 | 54.0 | -5.9 | Peak | Vertical |

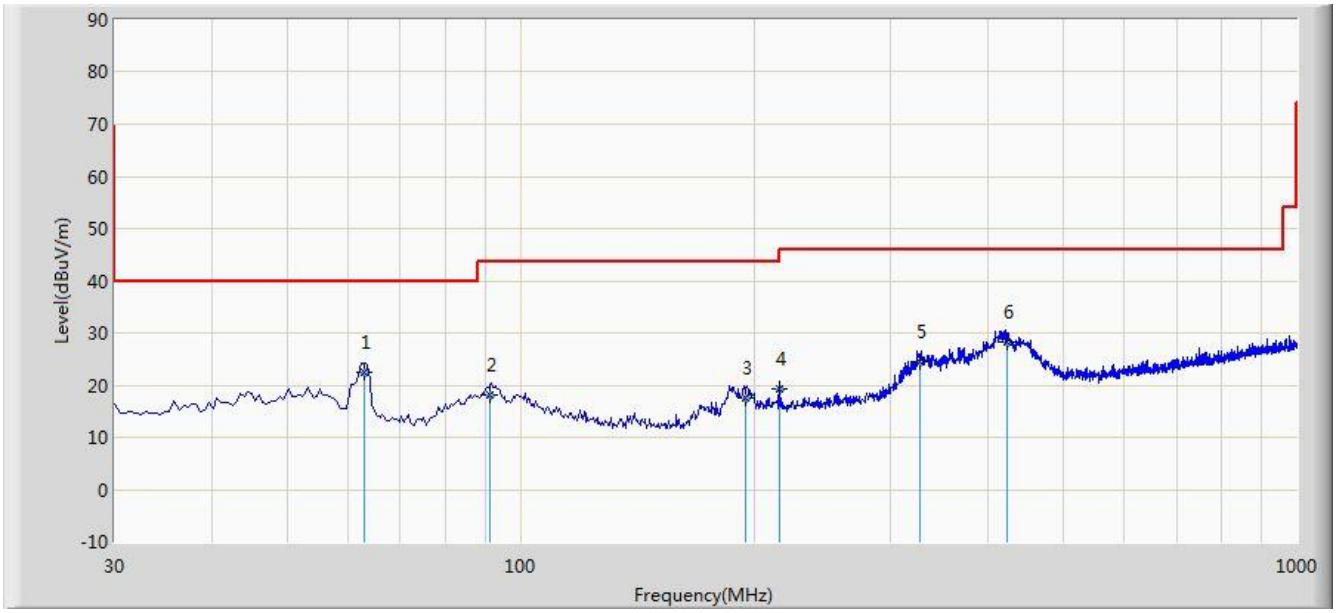
Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBµV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

**The Worst Case of Radiated Emission below 1GHz:**

| | |
|---|---|
| Site: AC1 | Time: 2019/07/13 - 12:51 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Kevin Ker |
| Probe: VULB 9168_20-2000MHz | Polarity: Horizontal |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| **Test Mode: There is the worst case within frequency range 30MHz~1GHz.** | |



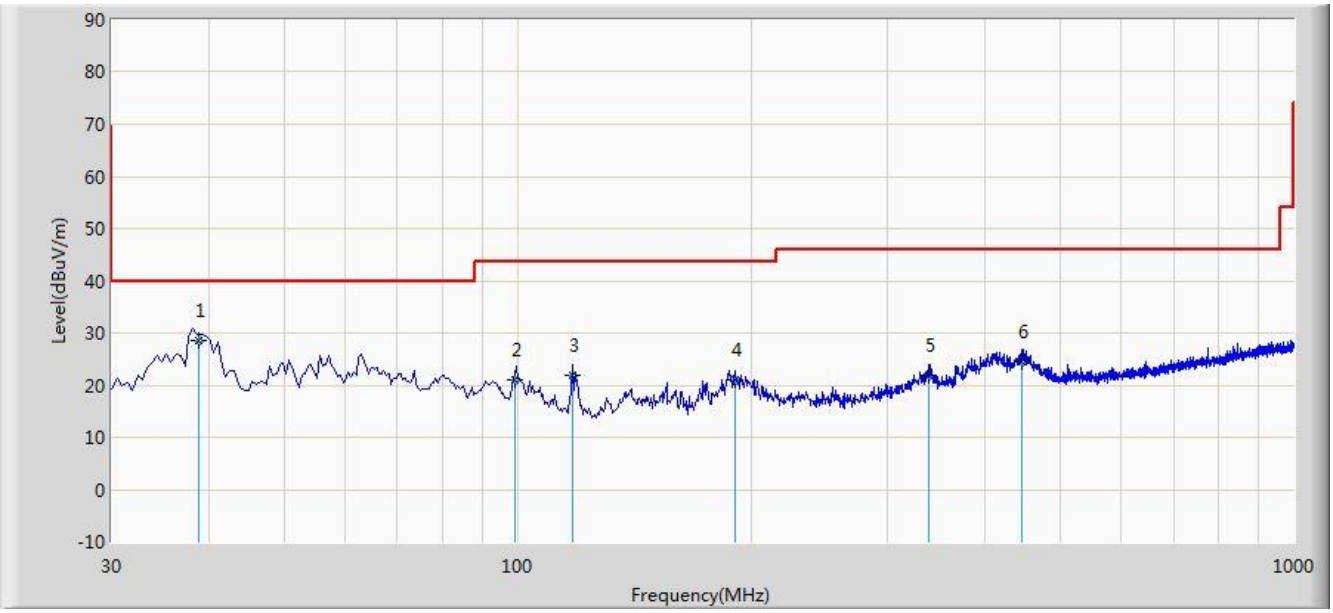

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 62.980 | 22.585 | 3.796 | -17.415 | 40.000 | 18.789 | QP |
| 2 | | | 91.145 | 18.146 | 0.908 | -25.354 | 43.500 | 17.237 | QP |
| 3 | | | 194.580 | 17.649 | -1.211 | -25.851 | 43.500 | 18.860 | QP |
| 4 | | | 215.440 | 19.217 | 0.200 | -24.283 | 43.500 | 19.018 | QP |
| 5 | | | 327.470 | 24.504 | 2.044 | -21.496 | 46.000 | 22.460 | QP |
| 6 | | | 422.980 | 28.231 | 4.028 | -17.769 | 46.000 | 24.203 | QP |

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 40GHz), therefore no data appear in the report. Besides, there is a comparison data of both open-field test site and alternative test site semi-Anechoic chamber according to KDB 414788 D01 radiated test site v01r01, this comparison result was very similar.

| | |
|---|---|
| Site: AC1 | Time: 2019/07/13 - 12:54 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Kevin Ker |
| Probe: VULB 9168_20-2000MHz | Polarity: Vertical |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| **Test Mode: There is the worst case within frequency range 30MHz~1GHz.** | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 38.840 | 28.659 | 8.325 | -11.341 | 40.000 | 20.334 | QP |
| 2 | | | 99.480 | 21.024 | 1.983 | -22.476 | 43.500 | 19.041 | QP |
| 3 | | | 117.598 | 21.981 | 3.731 | -21.519 | 43.500 | 18.250 | QP |
| 4 | | | 190.480 | 21.116 | 2.476 | -22.384 | 43.500 | 18.641 | QP |
| 5 | | | 338.970 | 21.850 | -1.054 | -24.150 | 46.000 | 22.904 | QP |
| 6 | | | 445.980 | 24.497 | 0.050 | -21.503 | 46.000 | 24.447 | QP |

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 40GHz), therefore no data appear in the report. Besides, there is a comparison data of both open-field test site and alternative test site semi-Anechoic chamber according to KDB 414788 D01 radiated test site v01r01, this comparison result was very similar.

**For APIN0504 - Omni Antenna (AP-ANT-19)**

| | | | |
|---|---|---|---|
| Product | ACCESS POINT | Temperature | 26°C |
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/30 |
| Test Mode: | 802.11a - Ant 0 + 1 | Test Channel: | 36 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8786.0 | 33.2 | 13.9 | 47.1 | 68.2 | -21.1 | Peak | Horizontal |
| * | 9942.0 | 33.8 | 15.6 | 49.4 | 68.2 | -18.8 | Peak | Horizontal |
| | 11225.5 | 32.5 | 19.2 | 51.7 | 54.0 | -2.3 | Peak | Horizontal |
| | 12339.0 | 31.3 | 18.5 | 49.8 | 54.0 | -4.2 | Peak | Horizontal |
| * | 8701.0 | 34.2 | 13.6 | 47.8 | 68.2 | -20.4 | Peak | Vertical |
| * | 9814.5 | 34.7 | 15.3 | 50.0 | 68.2 | -18.2 | Peak | Vertical |
| | 11140.5 | 31.9 | 19.1 | 51.0 | 54.0 | -3.0 | Peak | Vertical |
| | 12373.0 | 31.1 | 18.4 | 49.5 | 54.0 | -4.5 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/30 |
| Test Mode: | 802.11a - Ant 0 + 1 | Test Channel: | 44 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8718.0 | 33.1 | 13.7 | 46.8 | 68.2 | -21.4 | Peak | Horizontal |
| * | 10086.5 | 32.6 | 16.1 | 48.7 | 68.2 | -19.5 | Peak | Horizontal |
| | 11795.0 | 31.0 | 19.0 | 50.0 | 54.0 | -4.0 | Peak | Horizontal |
| | 15968.5 | 28.8 | 20.3 | 49.1 | 54.0 | -4.9 | Peak | Horizontal |
| * | 8777.5 | 34.6 | 13.8 | 48.4 | 68.2 | -19.8 | Peak | Vertical |
| * | 10069.5 | 31.9 | 16.1 | 48.0 | 68.2 | -20.2 | Peak | Vertical |
| | 11633.5 | 32.2 | 19.1 | 51.3 | 54.0 | -2.7 | Peak | Vertical |
| | 15798.5 | 28.2 | 20.9 | 49.1 | 54.0 | -4.9 | Peak | Vertical |

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/30 |
| Test Mode: | 802.11a - Ant 0 + 1 | Test Channel: | 48 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8616.0 | 34.3 | 13.4 | 47.7 | 68.2 | -20.5 | Peak | Horizontal |
| * | 10120.5 | 33.6 | 16.3 | 49.9 | 68.2 | -18.3 | Peak | Horizontal |
| | 12398.5 | 31.1 | 18.4 | 49.5 | 54.0 | -4.5 | Peak | Horizontal |
| | 15824.0 | 28.6 | 20.8 | 49.4 | 54.0 | -4.6 | Peak | Horizontal |
| * | 8888.0 | 34.0 | 14.1 | 48.1 | 68.2 | -20.1 | Peak | Vertical |
| * | 9772.0 | 32.6 | 15.2 | 47.8 | 68.2 | -20.4 | Peak | Vertical |
| | 11004.5 | 30.4 | 19.1 | 49.5 | 54.0 | -4.5 | Peak | Vertical |
| | 12364.5 | 29.9 | 18.4 | 48.3 | 54.0 | -5.7 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/30 |
| Test Mode: | 802.11a - Ant 0 + 1 | Test Channel: | 149 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8624.5 | 35.2 | 13.5 | 48.7 | 68.2 | -19.5 | Peak | Horizontal |
| * | 9942.0 | 34.0 | 15.6 | 49.6 | 68.2 | -18.6 | Peak | Horizontal |
| | 11174.5 | 31.6 | 19.1 | 50.7 | 54.0 | -3.3 | Peak | Horizontal |
| | 12322.0 | 31.2 | 18.5 | 49.7 | 54.0 | -4.3 | Peak | Horizontal |
| * | 8760.5 | 33.4 | 13.8 | 47.2 | 68.2 | -21.0 | Peak | Vertical |
| * | 10129.0 | 32.6 | 16.3 | 48.9 | 68.2 | -19.3 | Peak | Vertical |
| | 11829.0 | 30.6 | 19.0 | 49.6 | 54.0 | -4.4 | Peak | Vertical |
| | 15841.0 | 28.3 | 20.8 | 49.1 | 54.0 | -4.9 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/30 |
| Test Mode: | 802.11a - Ant 0 + 1 | Test Channel: | 157 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8837.0 | 34.6 | 14.0 | 48.6 | 68.2 | -19.6 | Peak | Horizontal |
| * | 9831.5 | 33.2 | 15.4 | 48.6 | 68.2 | -19.6 | Peak | Horizontal |
| | 10894.0 | 32.2 | 18.8 | 51.0 | 54.0 | -3.0 | Peak | Horizontal |
| | 12381.5 | 30.7 | 18.4 | 49.1 | 54.0 | -4.9 | Peak | Horizontal |
| * | 8811.5 | 34.6 | 13.9 | 48.5 | 68.2 | -19.7 | Peak | Vertical |
| * | 9687.0 | 33.7 | 15.0 | 48.7 | 68.2 | -19.5 | Peak | Vertical |
| | 11225.5 | 30.9 | 19.2 | 50.1 | 54.0 | -3.9 | Peak | Vertical |
| | 15705.0 | 30.3 | 21.2 | 51.5 | 54.0 | -2.5 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/30 |
| Test Mode: | 802.11a - Ant 0 + 1 | Test Channel: | 165 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8786.0 | 33.2 | 13.9 | 47.1 | 68.2 | -21.1 | Peak | Horizontal |
| * | 9551.0 | 33.9 | 14.7 | 48.6 | 68.2 | -19.6 | Peak | Horizontal |
| | 11489.0 | 31.3 | 19.2 | 50.5 | 54.0 | -3.5 | Peak | Horizontal |
| | 15841.0 | 28.9 | 20.8 | 49.7 | 54.0 | -4.3 | Peak | Horizontal |
| * | 8675.5 | 33.0 | 13.6 | 46.6 | 68.2 | -21.6 | Peak | Vertical |
| * | 9551.0 | 33.0 | 14.7 | 47.7 | 68.2 | -20.5 | Peak | Vertical |
| | 10698.5 | 31.5 | 18.4 | 49.9 | 54.0 | -4.1 | Peak | Vertical |
| | 12560.0 | 30.9 | 18.4 | 49.3 | 54.0 | -4.7 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/30 |
| Test Mode: | 802.11ac-VHT20 - Ant 0 + 1 | Test Channel: | 36 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBµV) | Factor (dB) | Measure Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8845.5 | 34.7 | 14.0 | 48.7 | 68.2 | -19.5 | Peak | Horizontal |
| * | 10239.5 | 33.7 | 16.8 | 50.5 | 68.2 | -17.7 | Peak | Horizontal |
| | 10826.0 | 32.4 | 18.7 | 51.1 | 54.0 | -2.9 | Peak | Horizontal |
| | 12424.0 | 30.6 | 18.4 | 49.0 | 54.0 | -5.0 | Peak | Horizontal |
| * | 8658.5 | 32.4 | 13.5 | 45.9 | 68.2 | -22.3 | Peak | Vertical |
| * | 10035.5 | 33.2 | 15.9 | 49.1 | 68.2 | -19.1 | Peak | Vertical |
| | 10834.5 | 31.8 | 18.7 | 50.5 | 54.0 | -3.5 | Peak | Vertical |
| | 12458.0 | 30.1 | 18.3 | 48.4 | 54.0 | -5.6 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBµV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/30 |
| Test Mode: | 802.11ac-VHT20 - Ant 0 + 1 | Test Channel: | 44 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8837.0 | 34.3 | 14.0 | 48.3 | 68.2 | -19.9 | Peak | Horizontal |
| * | 10103.5 | 33.8 | 16.2 | 50.0 | 68.2 | -18.2 | Peak | Horizontal |
| | 11225.5 | 31.0 | 19.2 | 50.2 | 54.0 | -3.8 | Peak | Horizontal |
| | 12492.0 | 30.8 | 18.3 | 49.1 | 54.0 | -4.9 | Peak | Horizontal |
| * | 8998.5 | 34.1 | 14.4 | 48.5 | 68.2 | -19.7 | Peak | Vertical |
| * | 10103.5 | 31.9 | 16.2 | 48.1 | 68.2 | -20.1 | Peak | Vertical |
| | 11327.5 | 32.5 | 19.2 | 51.7 | 54.0 | -2.3 | Peak | Vertical |
| | 15790.0 | 27.7 | 20.9 | 48.6 | 54.0 | -5.4 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/30 |
| Test Mode: | 802.11ac-VHT20 - Ant 0 + 1 | Test Channel: | 48 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8633.0 | 32.6 | 13.5 | 46.1 | 68.2 | -22.1 | Peak | Horizontal |
| * | 10035.5 | 33.5 | 15.9 | 49.4 | 68.2 | -18.8 | Peak | Horizontal |
| | 11234.0 | 29.3 | 19.2 | 48.5 | 54.0 | -5.5 | Peak | Horizontal |
| | 12441.0 | 29.8 | 18.4 | 48.2 | 54.0 | -5.8 | Peak | Horizontal |
| * | 8845.5 | 33.6 | 14.0 | 47.6 | 68.2 | -20.6 | Peak | Vertical |
| * | 10180.0 | 31.2 | 16.6 | 47.8 | 68.2 | -20.4 | Peak | Vertical |
| | 12007.5 | 30.4 | 18.8 | 49.2 | 54.0 | -4.8 | Peak | Vertical |
| | 15849.5 | 25.8 | 20.7 | 46.5 | 54.0 | -7.5 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/30 |
| Test Mode: | 802.11ac-VHT20 - Ant 0 + 1 | Test Channel: | 149 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8786.0 | 34.0 | 13.9 | 47.9 | 68.2 | -20.3 | Peak | Horizontal |
| * | 9678.5 | 32.8 | 15.0 | 47.8 | 68.2 | -20.4 | Peak | Horizontal |
| | 11497.5 | 30.0 | 19.2 | 49.2 | 54.0 | -4.8 | Peak | Horizontal |
| | 15917.5 | 28.5 | 20.5 | 49.0 | 54.0 | -5.0 | Peak | Horizontal |
| * | 8845.5 | 33.8 | 14.0 | 47.8 | 68.2 | -20.4 | Peak | Vertical |
| * | 9908.0 | 35.4 | 15.6 | 51.0 | 68.2 | -17.2 | Peak | Vertical |
| | 11531.5 | 30.9 | 19.2 | 50.1 | 54.0 | -3.9 | Peak | Vertical |
| | 16062.0 | 29.2 | 20.4 | 49.6 | 54.0 | -4.4 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/30 |
| Test Mode: | 802.11ac-VHT20 - Ant 0 + 1 | Test Channel: | 157 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8777.5 | 33.6 | 13.8 | 47.4 | 68.2 | -20.8 | Peak | Horizontal |
| * | 9695.5 | 33.8 | 15.1 | 48.9 | 68.2 | -19.3 | Peak | Horizontal |
| | 11064.0 | 31.6 | 19.1 | 50.7 | 54.0 | -3.3 | Peak | Horizontal |
| | 12330.5 | 29.7 | 18.5 | 48.2 | 54.0 | -5.8 | Peak | Horizontal |
| * | 8658.5 | 32.6 | 13.5 | 46.1 | 68.2 | -22.1 | Peak | Vertical |
| * | 10120.5 | 32.9 | 16.3 | 49.2 | 68.2 | -19.0 | Peak | Vertical |
| | 11676.0 | 30.3 | 19.1 | 49.4 | 54.0 | -4.6 | Peak | Vertical |
| | 15790.0 | 27.3 | 20.9 | 48.2 | 54.0 | -5.8 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/30 |
| Test Mode: | 802.11ac-VHT20 - Ant 0 + 1 | Test Channel: | 165 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8871.0 | 33.4 | 14.1 | 47.5 | 68.2 | -20.7 | Peak | Horizontal |
| * | 9789.0 | 34.4 | 15.3 | 49.7 | 68.2 | -18.5 | Peak | Horizontal |
| | 11251.0 | 31.6 | 19.2 | 50.8 | 54.0 | -3.2 | Peak | Horizontal |
| | 12441.0 | 31.1 | 18.4 | 49.5 | 54.0 | -4.5 | Peak | Horizontal |
| * | 8616.0 | 34.4 | 13.4 | 47.8 | 68.2 | -20.4 | Peak | Vertical |
| * | 10052.5 | 31.9 | 16.0 | 47.9 | 68.2 | -20.3 | Peak | Vertical |
| | 11684.5 | 32.0 | 19.1 | 51.1 | 54.0 | -2.9 | Peak | Vertical |
| | 15798.5 | 27.1 | 20.9 | 48.0 | 54.0 | -6.0 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/30 |
| Test Mode: | 802.11ac-VHT40 - Ant 0 + 1 | Test Channel: | 38 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8726.5 | 35.3 | 13.7 | 49.0 | 68.2 | -19.2 | Peak | Horizontal |
| * | 10052.5 | 33.5 | 16.0 | 49.5 | 68.2 | -18.7 | Peak | Horizontal |
| | 11378.5 | 31.6 | 19.2 | 50.8 | 54.0 | -3.2 | Peak | Horizontal |
| | 16028.0 | 28.1 | 20.3 | 48.4 | 54.0 | -5.6 | Peak | Horizontal |
| * | 8922.0 | 33.9 | 14.2 | 48.1 | 68.2 | -20.1 | Peak | Vertical |
| * | 10171.5 | 32.6 | 16.5 | 49.1 | 68.2 | -19.1 | Peak | Vertical |
| | 11582.5 | 30.6 | 19.2 | 49.8 | 54.0 | -4.2 | Peak | Vertical |
| | 15849.5 | 27.4 | 20.7 | 48.1 | 54.0 | -5.9 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/30 |
| Test Mode: | 802.11ac-VHT40 - Ant 0 + 1 | Test Channel: | 46 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8709.5 | 33.7 | 13.7 | 47.4 | 68.2 | -20.8 | Peak | Horizontal |
| * | 10061.0 | 32.5 | 16.0 | 48.5 | 68.2 | -19.7 | Peak | Horizontal |
| | 11633.5 | 33.5 | 19.1 | 52.6 | 54.0 | -1.4 | Peak | Horizontal |
| | 16002.5 | 28.2 | 20.2 | 48.4 | 54.0 | -5.6 | Peak | Horizontal |
| * | 8803.0 | 34.1 | 13.9 | 48.0 | 68.2 | -20.2 | Peak | Vertical |
| * | 10316.0 | 31.7 | 17.2 | 48.9 | 68.2 | -19.3 | Peak | Vertical |
| | 12067.0 | 29.9 | 18.8 | 48.7 | 54.0 | -5.3 | Peak | Vertical |
| | 15909.0 | 27.4 | 20.5 | 47.9 | 54.0 | -6.1 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/30 |
| Test Mode: | 802.11ac-VHT40 - Ant 0 + 1 | Test Channel: | 151 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8752.0 | 35.1 | 13.8 | 48.9 | 68.2 | -19.3 | Peak | Horizontal |
| * | 10154.5 | 33.5 | 16.4 | 49.9 | 68.2 | -18.3 | Peak | Horizontal |
| | 11786.5 | 30.3 | 19.0 | 49.3 | 54.0 | -4.7 | Peak | Horizontal |
| | 15773.0 | 28.1 | 21.0 | 49.1 | 54.0 | -4.9 | Peak | Horizontal |
| * | 8735.0 | 32.1 | 13.7 | 45.8 | 68.2 | -22.4 | Peak | Vertical |
| * | 10078.0 | 33.6 | 16.1 | 49.7 | 68.2 | -18.5 | Peak | Vertical |
| | 11378.5 | 30.6 | 19.2 | 49.8 | 54.0 | -4.2 | Peak | Vertical |
| | 15841.0 | 27.5 | 20.8 | 48.3 | 54.0 | -5.7 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/30 |
| Test Mode: | 802.11ac-VHT40 - Ant 0 + 1 | Test Channel: | 159 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBµV) | Factor (dB) | Measure Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8879.5 | 33.9 | 14.1 | 48.0 | 68.2 | -20.2 | Peak | Horizontal |
| * | 9967.5 | 33.7 | 15.7 | 49.4 | 68.2 | -18.8 | Peak | Horizontal |
| | 11956.5 | 30.7 | 18.9 | 49.6 | 54.0 | -4.4 | Peak | Horizontal |
| | 16053.5 | 27.9 | 20.4 | 48.3 | 54.0 | -5.7 | Peak | Horizontal |
| * | 8692.5 | 32.1 | 13.6 | 45.7 | 68.2 | -22.5 | Peak | Vertical |
| * | 9925.0 | 34.0 | 15.6 | 49.6 | 68.2 | -18.6 | Peak | Vertical |
| | 12007.5 | 32.4 | 18.8 | 51.2 | 54.0 | -2.8 | Peak | Vertical |
| | 15790.0 | 27.3 | 20.9 | 48.2 | 54.0 | -5.8 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBµV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/30 |
| Test Mode: | 802.11ac-VHT80 - Ant 0 + 1 | Test Channel: | 42 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8692.5 | 33.0 | 13.6 | 46.6 | 68.2 | -21.6 | Peak | Horizontal |
| * | 9959.0 | 33.6 | 15.7 | 49.3 | 68.2 | -18.9 | Peak | Horizontal |
| | 11786.5 | 30.5 | 19.0 | 49.5 | 54.0 | -4.5 | Peak | Horizontal |
| | 15790.0 | 27.9 | 20.9 | 48.8 | 54.0 | -5.2 | Peak | Horizontal |
| * | 8769.0 | 32.6 | 13.8 | 46.4 | 68.2 | -21.8 | Peak | Vertical |
| * | 10375.5 | 31.3 | 17.4 | 48.7 | 68.2 | -19.5 | Peak | Vertical |
| | 12458.0 | 30.5 | 18.3 | 48.8 | 54.0 | -5.2 | Peak | Vertical |
| | 15900.5 | 27.9 | 20.6 | 48.5 | 54.0 | -5.5 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/30 |
| Test Mode: | 802.11ac-VHT80 - Ant 0 + 1 | Test Channel: | 155 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBµV) | Factor (dB) | Measure Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8752.0 | 33.8 | 13.8 | 47.6 | 68.2 | -20.6 | Peak | Horizontal |
| * | 10018.5 | 32.2 | 15.8 | 48.0 | 68.2 | -20.2 | Peak | Horizontal |
| | 11854.5 | 29.5 | 18.9 | 48.4 | 54.0 | -5.6 | Peak | Horizontal |
| | 15662.5 | 27.5 | 21.4 | 48.9 | 54.0 | -5.1 | Peak | Horizontal |
| * | 8811.5 | 33.8 | 13.9 | 47.7 | 68.2 | -20.5 | Peak | Vertical |
| * | 9814.5 | 33.4 | 15.3 | 48.7 | 68.2 | -19.5 | Peak | Vertical |
| | 12169.0 | 30.6 | 18.6 | 49.2 | 54.0 | -4.8 | Peak | Vertical |
| | 15790.0 | 27.6 | 20.9 | 48.5 | 54.0 | -5.5 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBµV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/30 |
| Test Mode: | 802.11ax-HE20 - Ant 0 + 1 | Test Channel: | 36 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBµV) | Factor (dB) | Measure Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8658.5 | 33.2 | 13.5 | 46.7 | 68.2 | -21.5 | Peak | Horizontal |
| * | 9780.5 | 33.9 | 15.3 | 49.2 | 68.2 | -19.0 | Peak | Horizontal |
| | 11948.0 | 32.1 | 18.9 | 51.0 | 54.0 | -3.0 | Peak | Horizontal |
| | 15841.0 | 27.6 | 20.8 | 48.4 | 54.0 | -5.6 | Peak | Horizontal |
| * | 8913.5 | 33.5 | 14.2 | 47.7 | 68.2 | -20.5 | Peak | Vertical |
| * | 9993.0 | 32.9 | 15.7 | 48.6 | 68.2 | -19.6 | Peak | Vertical |
| | 11370.0 | 30.6 | 19.2 | 49.8 | 54.0 | -4.2 | Peak | Vertical |
| | 15832.5 | 27.9 | 20.8 | 48.7 | 54.0 | -5.3 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBµV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/30 |
| Test Mode: | 802.11ax-HE20 - Ant 0 + 1 | Test Channel: | 44 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBµV) | Factor (dB) | Measure Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8769.0 | 33.7 | 13.8 | 47.5 | 68.2 | -20.7 | Peak | Horizontal |
| * | 10078.0 | 33.5 | 16.1 | 49.6 | 68.2 | -18.6 | Peak | Horizontal |
| | 11965.0 | 31.0 | 18.9 | 49.9 | 54.0 | -4.1 | Peak | Horizontal |
| | 15824.0 | 28.4 | 20.8 | 49.2 | 54.0 | -4.8 | Peak | Horizontal |
| * | 8786.0 | 34.3 | 13.9 | 48.2 | 68.2 | -20.0 | Peak | Vertical |
| * | 9959.0 | 33.5 | 15.7 | 49.2 | 68.2 | -19.0 | Peak | Vertical |
| | 11820.5 | 30.1 | 19.0 | 49.1 | 54.0 | -4.9 | Peak | Vertical |
| | 15841.0 | 28.0 | 20.8 | 48.8 | 54.0 | -5.2 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBµV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/30 |
| Test Mode: | 802.11ax-HE20 - Ant 0 + 1 | Test Channel: | 48 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBµV) | Factor (dB) | Measure Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8828.5 | 32.3 | 14.0 | 46.3 | 68.2 | -21.9 | Peak | Horizontal |
| * | 9695.5 | 35.2 | 15.1 | 50.3 | 68.2 | -17.9 | Peak | Horizontal |
| | 10953.5 | 30.8 | 19.0 | 49.8 | 54.0 | -4.2 | Peak | Horizontal |
| | 12364.5 | 30.6 | 18.4 | 49.0 | 54.0 | -5.0 | Peak | Horizontal |
| * | 8769.0 | 31.9 | 13.8 | 45.7 | 68.2 | -22.5 | Peak | Vertical |
| * | 10078.0 | 32.0 | 16.1 | 48.1 | 68.2 | -20.1 | Peak | Vertical |
| | 11276.5 | 30.5 | 19.2 | 49.7 | 54.0 | -4.3 | Peak | Vertical |
| | 16011.0 | 28.3 | 20.3 | 48.6 | 54.0 | -5.4 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBµV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/30 |
| Test Mode: | 802.11ax-HE20 - Ant 0 + 1 | Test Channel: | 149 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBµV) | Factor (dB) | Measure Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8811.5 | 34.3 | 13.9 | 48.2 | 68.2 | -20.0 | Peak | Horizontal |
| * | 10409.5 | 30.9 | 17.6 | 48.5 | 68.2 | -19.7 | Peak | Horizontal |
| | 11820.5 | 30.1 | 19.0 | 49.1 | 54.0 | -4.9 | Peak | Horizontal |
| | 15849.5 | 27.7 | 20.7 | 48.4 | 54.0 | -5.6 | Peak | Horizontal |
| * | 8692.5 | 33.7 | 13.6 | 47.3 | 68.2 | -20.9 | Peak | Vertical |
| * | 9899.5 | 33.1 | 15.5 | 48.6 | 68.2 | -19.6 | Peak | Vertical |
| | 11888.5 | 29.6 | 18.9 | 48.5 | 54.0 | -5.5 | Peak | Vertical |
| | 15858.0 | 27.4 | 20.7 | 48.1 | 54.0 | -5.9 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBµV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/30 |
| Test Mode: | 802.11ax-HE20 - Ant 0 + 1 | Test Channel: | 157 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8709.5 | 34.0 | 13.7 | 47.7 | 68.2 | -20.5 | Peak | Horizontal |
| * | 10137.5 | 31.7 | 16.4 | 48.1 | 68.2 | -20.1 | Peak | Horizontal |
| | 12390.0 | 30.1 | 18.4 | 48.5 | 54.0 | -5.5 | Peak | Horizontal |
| | 15909.0 | 27.8 | 20.5 | 48.3 | 54.0 | -5.7 | Peak | Horizontal |
| * | 8905.0 | 34.6 | 14.1 | 48.7 | 68.2 | -19.5 | Peak | Vertical |
| * | 9984.5 | 33.9 | 15.7 | 49.6 | 68.2 | -18.6 | Peak | Vertical |
| | 11795.0 | 30.1 | 19.0 | 49.1 | 54.0 | -4.9 | Peak | Vertical |
| | 15841.0 | 28.0 | 20.8 | 48.8 | 54.0 | -5.2 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/30 |
| Test Mode: | 802.11ax-HE20 - Ant 0 + 1 | Test Channel: | 165 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8811.5 | 34.5 | 13.9 | 48.4 | 68.2 | -19.8 | Peak | Horizontal |
| * | 10078.0 | 32.4 | 16.1 | 48.5 | 68.2 | -19.7 | Peak | Horizontal |
| | 12254.0 | 30.2 | 18.6 | 48.8 | 54.0 | -5.2 | Peak | Horizontal |
| | 15773.0 | 28.3 | 21.0 | 49.3 | 54.0 | -4.7 | Peak | Horizontal |
| * | 8743.5 | 32.8 | 13.8 | 46.6 | 68.2 | -21.6 | Peak | Vertical |
| * | 10027.0 | 32.0 | 15.9 | 47.9 | 68.2 | -20.3 | Peak | Vertical |
| | 12254.0 | 30.1 | 18.6 | 48.7 | 54.0 | -5.3 | Peak | Vertical |
| | 15492.5 | 28.4 | 21.9 | 50.3 | 54.0 | -3.7 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/30 |
| Test Mode: | 802.11ax-HE40 - Ant 0 + 1 | Test Channel: | 38 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBµV) | Factor (dB) | Measure Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8743.5 | 31.8 | 13.8 | 45.6 | 68.2 | -22.6 | Peak | Horizontal |
| * | 10086.5 | 32.2 | 16.1 | 48.3 | 68.2 | -19.9 | Peak | Horizontal |
| | 11863.0 | 29.7 | 18.9 | 48.6 | 54.0 | -5.4 | Peak | Horizontal |
| | 15968.5 | 28.3 | 20.3 | 48.6 | 54.0 | -5.4 | Peak | Horizontal |
| * | 8735.0 | 33.3 | 13.7 | 47.0 | 68.2 | -21.2 | Peak | Vertical |
| * | 10180.0 | 32.5 | 16.6 | 49.1 | 68.2 | -19.1 | Peak | Vertical |
| | 12330.5 | 30.6 | 18.5 | 49.1 | 54.0 | -4.9 | Peak | Vertical |
| | 16011.0 | 28.2 | 20.3 | 48.5 | 54.0 | -5.5 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBµV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/30 |
| Test Mode: | 802.11ax-HE40 - Ant 0 + 1 | Test Channel: | 46 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBµV) | Factor (dB) | Measure Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8752.0 | 32.9 | 13.8 | 46.7 | 68.2 | -21.5 | Peak | Horizontal |
| * | 10044.0 | 32.9 | 16.0 | 48.9 | 68.2 | -19.3 | Peak | Horizontal |
| | 11812.0 | 30.1 | 19.0 | 49.1 | 54.0 | -4.9 | Peak | Horizontal |
| | 15832.5 | 27.7 | 20.8 | 48.5 | 54.0 | -5.5 | Peak | Horizontal |
| * | 8658.5 | 33.5 | 13.5 | 47.0 | 68.2 | -21.2 | Peak | Vertical |
| * | 10044.0 | 32.3 | 16.0 | 48.3 | 68.2 | -19.9 | Peak | Vertical |
| | 11761.0 | 30.6 | 19.0 | 49.6 | 54.0 | -4.4 | Peak | Vertical |
| | 15841.0 | 27.1 | 20.8 | 47.9 | 54.0 | -6.1 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBµV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/30 |
| Test Mode: | 802.11ax-HE40 - Ant 0 + 1 | Test Channel: | 151 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBµV) | Factor (dB) | Measure Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8590.5 | 33.6 | 13.4 | 47.0 | 68.2 | -21.2 | Peak | Horizontal |
| * | 10069.5 | 34.1 | 16.1 | 50.2 | 68.2 | -18.0 | Peak | Horizontal |
| | 11846.0 | 29.7 | 19.0 | 48.7 | 54.0 | -5.3 | Peak | Horizontal |
| | 15849.5 | 27.8 | 20.7 | 48.5 | 54.0 | -5.5 | Peak | Horizontal |
| * | 8718.0 | 32.2 | 13.7 | 45.9 | 68.2 | -22.3 | Peak | Vertical |
| * | 9925.0 | 32.5 | 15.6 | 48.1 | 68.2 | -20.1 | Peak | Vertical |
| | 11786.5 | 30.8 | 19.0 | 49.8 | 54.0 | -4.2 | Peak | Vertical |
| | 15637.0 | 28.0 | 21.5 | 49.5 | 54.0 | -4.5 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBµV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/30 |
| Test Mode: | 802.11ax-HE40 - Ant 0 + 1 | Test Channel: | 159 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8667.0 | 32.4 | 13.6 | 46.0 | 68.2 | -22.2 | Peak | Horizontal |
| * | 9993.0 | 32.3 | 15.7 | 48.0 | 68.2 | -20.2 | Peak | Horizontal |
| | 11863.0 | 30.2 | 18.9 | 49.1 | 54.0 | -4.9 | Peak | Horizontal |
| | 15849.5 | 28.3 | 20.7 | 49.0 | 54.0 | -5.0 | Peak | Horizontal |
| * | 8667.0 | 32.9 | 13.6 | 46.5 | 68.2 | -21.7 | Peak | Vertical |
| * | 10044.0 | 32.6 | 16.0 | 48.6 | 68.2 | -19.6 | Peak | Vertical |
| | 11684.5 | 30.6 | 19.1 | 49.7 | 54.0 | -4.3 | Peak | Vertical |
| | 15671.0 | 27.4 | 21.4 | 48.8 | 54.0 | -5.2 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/30 |
| Test Mode: | 802.11ax-HE80 - Ant 0 + 1 | Test Channel: | 42 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBµV) | Factor (dB) | Measure Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8675.5 | 32.4 | 13.6 | 46.0 | 68.2 | -22.2 | Peak | Horizontal |
| * | 10248.0 | 31.7 | 16.9 | 48.6 | 68.2 | -19.6 | Peak | Horizontal |
| | 12271.0 | 30.4 | 18.5 | 48.9 | 54.0 | -5.1 | Peak | Horizontal |
| | 15849.5 | 27.9 | 20.7 | 48.6 | 54.0 | -5.4 | Peak | Horizontal |
| * | 8854.0 | 32.7 | 14.0 | 46.7 | 68.2 | -21.5 | Peak | Vertical |
| * | 10307.5 | 31.3 | 17.1 | 48.4 | 68.2 | -19.8 | Peak | Vertical |
| | 11897.0 | 30.6 | 18.9 | 49.5 | 54.0 | -4.5 | Peak | Vertical |
| | 15849.5 | 28.0 | 20.7 | 48.7 | 54.0 | -5.3 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBµV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/30 |
| Test Mode: | 802.11ax-HE80 - Ant 0 + 1 | Test Channel: | 155 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBµV) | Factor (dB) | Measure Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8692.5 | 32.1 | 13.6 | 45.7 | 68.2 | -22.5 | Peak | Horizontal |
| * | 9857.0 | 33.6 | 15.4 | 49.0 | 68.2 | -19.2 | Peak | Horizontal |
| | 11234.0 | 30.1 | 19.2 | 49.3 | 54.0 | -4.7 | Peak | Horizontal |
| | 15773.0 | 27.3 | 21.0 | 48.3 | 74.0 | -25.7 | Peak | Horizontal |
| * | 8582.0 | 33.8 | 13.4 | 47.2 | 54.0 | -6.8 | Peak | Vertical |
| * | 9729.5 | 33.0 | 15.1 | 48.1 | 68.2 | -20.1 | Peak | Vertical |
| | 11072.5 | 31.6 | 19.1 | 50.7 | 54.0 | -3.3 | Peak | Vertical |
| | 12432.5 | 30.7 | 18.4 | 49.1 | 54.0 | -4.9 | Peak | Vertical |

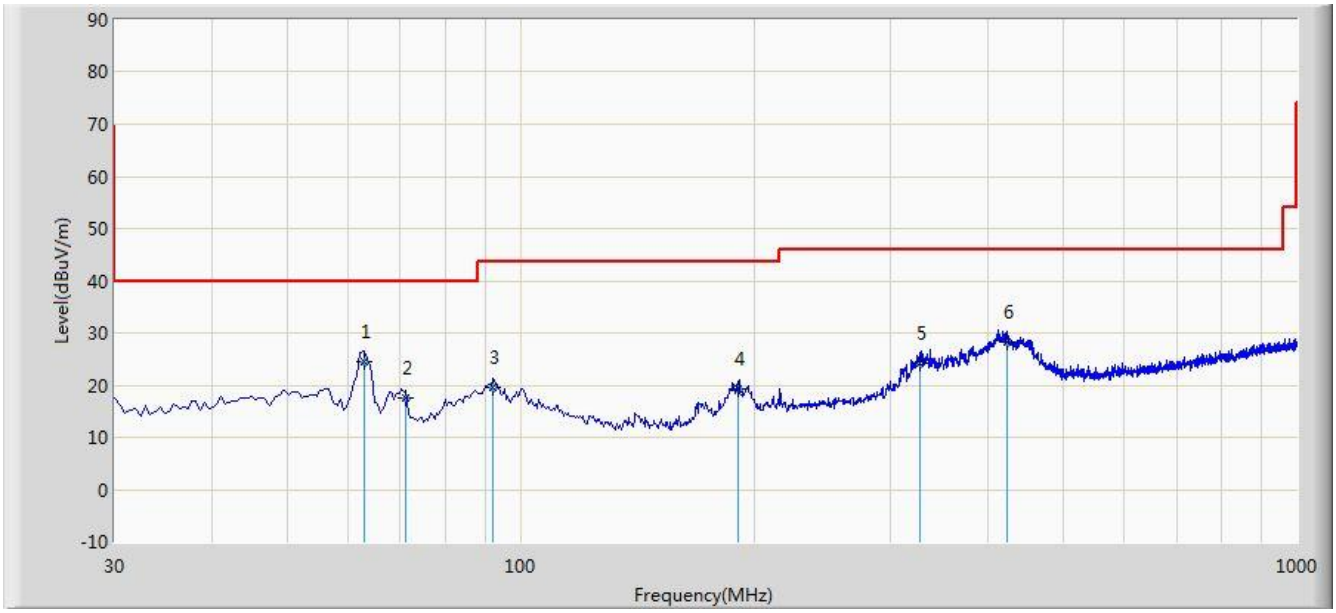
Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBµV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

**The Worst Case of Radiated Emission below 1GHz:**

| | |
|---|---|
| Site: AC1 | Time: 2019/07/13 - 13:14 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Kevin Ker |
| Probe: VULB 9168_20-2000MHz | Polarity: Horizontal |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| **Test Mode: There is the worst case within frequency range 30MHz~1GHz.** | |



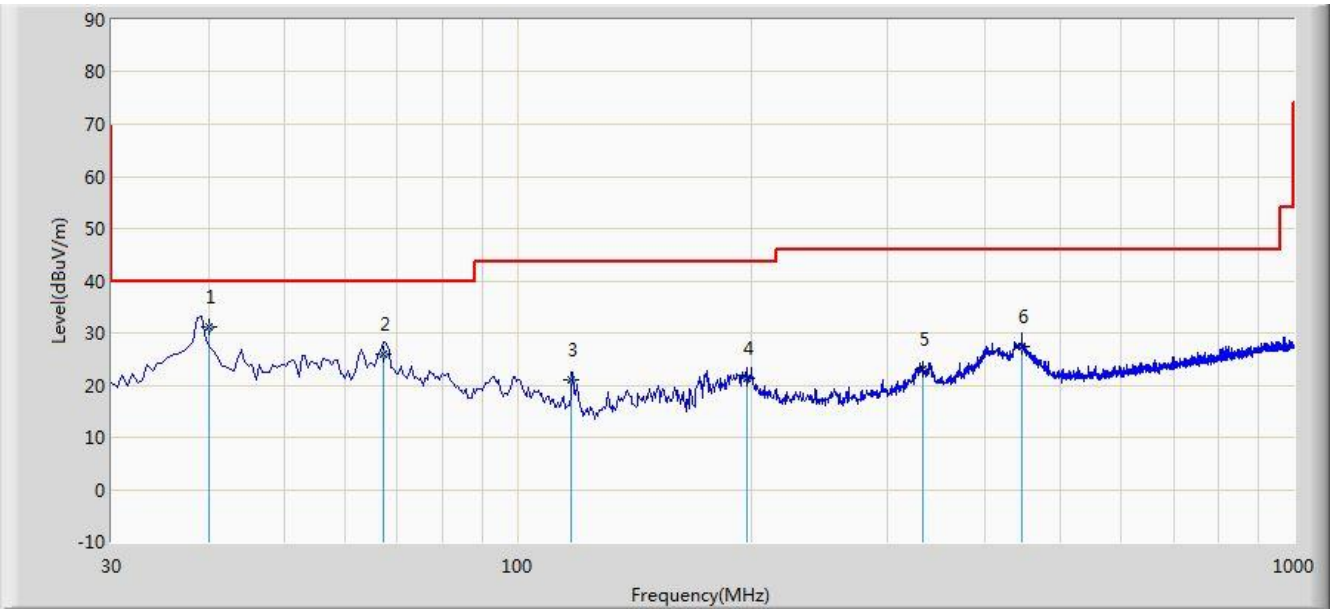

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 62.940 | 24.359 | 5.552 | -15.641 | 40.000 | 18.807 | QP |
| 2 | | | 71.225 | 17.415 | 1.954 | -22.585 | 40.000 | 15.460 | QP |
| 3 | | | 92.158 | 19.588 | 2.131 | -23.912 | 43.500 | 17.457 | QP |
| 4 | | | 191.148 | 19.154 | 0.478 | -24.346 | 43.500 | 18.676 | QP |
| 5 | | | 326.740 | 24.281 | 1.849 | -21.719 | 46.000 | 22.432 | QP |
| 6 | | | 422.970 | 28.231 | 4.028 | -17.769 | 46.000 | 24.203 | QP |

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 40GHz), therefore no data appear in the report. Besides, there is a comparison data of both open-field test site and alternative test site semi-Anechoic chamber according to KDB 414788 D01 radiated test site v01r01, this comparison result was very similar.

| | |
|---|---|
| Site: AC1 | Time: 2019/07/13 - 13:16 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Kevin Ker |
| Probe: VULB 9168_20-2000MHz | Polarity: Vertical |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| **Test Mode: There is the worst case within frequency range 30MHz~1GHz.** | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 39.980 | 31.265 | 10.547 | -8.735 | 40.000 | 20.718 | QP |
| 2 | | | 67.290 | 25.826 | 8.950 | -14.174 | 40.000 | 16.877 | QP |
| 3 | | | 117.487 | 21.020 | 2.756 | -22.480 | 43.500 | 18.264 | QP |
| 4 | | | 197.540 | 21.432 | 2.414 | -22.068 | 43.500 | 19.018 | QP |
| 5 | | | 332.540 | 22.986 | 0.330 | -23.014 | 46.000 | 22.655 | QP |
| 6 | | | 446.714 | 27.524 | 3.069 | -18.476 | 46.000 | 24.455 | QP |

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 40GHz), therefore no data appear in the report. Besides, there is a comparison data of both open-field test site and alternative test site semi-Anechoic chamber according to KDB 414788 D01 radiated test site v01r01, this comparison result was very similar.

**For APIN0504 - Directional Antenna (AP-ANT-28)**

| | | | |
|---|---|---|---|
| Product | ACCESS POINT | Temperature | 26°C |
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/07/12 |
| Test Mode: | 802.11a - Ant 0 + 1 | Test Channel: | 36 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8811.5 | 32.6 | 13.9 | 46.5 | 68.2 | -21.7 | Peak | Horizontal |
| * | 9814.5 | 33.3 | 15.3 | 48.7 | 68.2 | -19.5 | Peak | Horizontal |
| | 10792.0 | 33.2 | 18.6 | 51.8 | 54.0 | -2.2 | Peak | Horizontal |
| | 12390.0 | 30.2 | 18.4 | 48.6 | 54.0 | -5.4 | Peak | Horizontal |
| * | 8769.0 | 33.1 | 13.8 | 46.9 | 68.2 | -21.3 | Peak | Vertical |
| * | 10095.0 | 33.3 | 16.2 | 49.5 | 68.2 | -18.7 | Peak | Vertical |
| | 11225.5 | 30.6 | 19.2 | 49.8 | 54.0 | -4.2 | Peak | Vertical |
| | 12526.0 | 30.7 | 18.4 | 49.1 | 54.0 | -5.0 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/07/12 |
| Test Mode: | 802.11a - Ant 0 + 1 | Test Channel: | 44 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8769.0 | 32.6 | 13.8 | 46.4 | 68.2 | -21.8 | Peak | Horizontal |
| * | 9814.5 | 32.7 | 15.3 | 48.0 | 68.2 | -20.2 | Peak | Horizontal |
| | 11072.5 | 31.5 | 19.1 | 50.6 | 54.0 | -3.4 | Peak | Horizontal |
| | 12415.5 | 29.9 | 18.4 | 48.3 | 54.0 | -5.7 | Peak | Horizontal |
| * | 8794.5 | 34.3 | 13.9 | 48.2 | 68.2 | -20.0 | Peak | Vertical |
| * | 10044.0 | 33.1 | 16.0 | 49.0 | 68.2 | -19.2 | Peak | Vertical |
| | 11982.0 | 30.9 | 18.8 | 49.7 | 54.0 | -4.3 | Peak | Vertical |
| | 15654.0 | 32.3 | 21.4 | 53.7 | 54.0 | -0.3 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/07/12 |
| Test Mode: | 802.11a - Ant 0 + 1 | Test Channel: | 48 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8624.5 | 34.8 | 13.5 | 48.2 | 68.2 | -20.0 | Peak | Horizontal |
| * | 10010.0 | 34.4 | 15.8 | 50.2 | 68.2 | -18.0 | Peak | Horizontal |
| | 11531.5 | 33.1 | 19.2 | 52.4 | 54.0 | -1.6 | Peak | Horizontal |
| | 12551.5 | 30.1 | 18.4 | 48.6 | 54.0 | -5.4 | Peak | Horizontal |
| * | 8845.5 | 34.1 | 14.0 | 48.1 | 68.2 | -20.1 | Peak | Vertical |
| * | 10044.0 | 33.3 | 16.0 | 49.3 | 68.2 | -18.9 | Peak | Vertical |
| | 11191.5 | 32.8 | 19.1 | 52.0 | 54.0 | -2.0 | Peak | Vertical |
| | 15713.5 | 35.1 | 21.2 | 56.3 | 54.0 | 2.3 | Peak | Vertical |
| | 15718.9 | 22.6 | 21.2 | 43.8 | 54.0 | -10.2 | Average | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/07/12 |
| Test Mode: | 802.11a - Ant 0 + 1 | Test Channel: | 149 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8539.5 | 34.1 | 13.3 | 47.4 | 68.2 | -20.8 | Peak | Horizontal |
| * | 9993.0 | 33.6 | 15.7 | 49.3 | 68.2 | -18.9 | Peak | Horizontal |
| | 11812.0 | 30.4 | 19.0 | 49.4 | 54.0 | -4.6 | Peak | Horizontal |
| | 15807.0 | 27.6 | 20.9 | 48.5 | 54.0 | -5.5 | Peak | Horizontal |
| * | 8811.5 | 34.7 | 13.9 | 48.6 | 68.2 | -19.6 | Peak | Vertical |
| * | 9959.0 | 34.4 | 15.7 | 50.1 | 68.2 | -18.1 | Peak | Vertical |
| | 11174.5 | 30.8 | 19.1 | 49.9 | 54.0 | -4.1 | Peak | Vertical |
| | 15832.5 | 27.9 | 20.8 | 48.7 | 54.0 | -5.3 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/07/12 |
| Test Mode: | 802.11a - Ant 0 + 1 | Test Channel: | 157 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8735.0 | 33.7 | 13.7 | 47.4 | 68.2 | -20.8 | Peak | Horizontal |
| * | 10214.0 | 33.9 | 16.7 | 50.6 | 68.2 | -17.6 | Peak | Horizontal |
| | 11795.0 | 31.4 | 19.0 | 50.4 | 54.0 | -3.6 | Peak | Horizontal |
| | 15773.0 | 28.0 | 21.0 | 49.0 | 54.0 | -5.0 | Peak | Horizontal |
| * | 8735.0 | 34.3 | 13.7 | 48.0 | 68.2 | -20.2 | Peak | Vertical |
| * | 9993.0 | 32.1 | 15.7 | 47.8 | 68.2 | -20.4 | Peak | Vertical |
| | 12041.5 | 32.3 | 18.8 | 51.1 | 54.0 | -2.9 | Peak | Vertical |
| | 15620.0 | 27.6 | 21.5 | 49.1 | 54.0 | -4.9 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/07/12 |
| Test Mode: | 802.11a - Ant 0 + 1 | Test Channel: | 165 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8701.0 | 35.5 | 13.6 | 49.1 | 68.2 | -19.1 | Peak | Horizontal |
| * | 10103.5 | 34.4 | 16.2 | 50.6 | 68.2 | -17.6 | Peak | Horizontal |
| | 12007.5 | 31.3 | 18.8 | 50.1 | 54.0 | -3.9 | Peak | Horizontal |
| | 15832.5 | 27.8 | 20.8 | 48.6 | 54.0 | -5.4 | Peak | Horizontal |
| * | 8658.5 | 34.6 | 13.5 | 48.2 | 68.2 | -20.0 | Peak | Vertical |
| * | 10239.5 | 33.5 | 16.8 | 50.3 | 68.2 | -17.9 | Peak | Vertical |
| | 12084.0 | 31.0 | 18.7 | 49.7 | 54.0 | -4.3 | Peak | Vertical |
| | 15807.0 | 28.3 | 20.9 | 49.1 | 54.0 | -4.9 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/07/12 |
| Test Mode: | 802.11ac-VHT20 - Ant 0 + 1 | Test Channel: | 36 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBµV) | Factor (dB) | Measure Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8760.5 | 34.7 | 13.8 | 48.5 | 68.2 | -19.8 | Peak | Horizontal |
| * | 10171.5 | 32.5 | 16.5 | 49.0 | 68.2 | -19.2 | Peak | Horizontal |
| | 11922.5 | 30.0 | 18.9 | 48.9 | 54.0 | -5.1 | Peak | Horizontal |
| | 15849.5 | 27.7 | 20.7 | 48.4 | 54.0 | -5.6 | Peak | Horizontal |
| * | 8854.0 | 35.1 | 14.0 | 49.1 | 68.2 | -19.1 | Peak | Vertical |
| * | 9874.0 | 33.2 | 15.5 | 48.6 | 68.2 | -19.6 | Peak | Vertical |
| | 11455.0 | 31.0 | 19.2 | 50.2 | 54.0 | -3.8 | Peak | Vertical |
| | 15917.5 | 28.0 | 20.5 | 48.5 | 54.0 | -5.5 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBµV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/07/12 |
| Test Mode: | 802.11ac-VHT20 - Ant 0 + 1 | Test Channel: | 44 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8616.0 | 34.4 | 13.4 | 47.8 | 68.2 | -20.4 | Peak | Horizontal |
| * | 10001.5 | 32.6 | 15.8 | 48.4 | 68.2 | -19.8 | Peak | Horizontal |
| | 11625.0 | 31.2 | 19.1 | 50.4 | 54.0 | -3.6 | Peak | Horizontal |
| | 15849.5 | 27.2 | 20.7 | 47.9 | 54.0 | -6.1 | Peak | Horizontal |
| * | 8641.5 | 35.4 | 13.5 | 48.9 | 68.2 | -19.3 | Peak | Vertical |
| * | 9908.0 | 36.0 | 15.6 | 51.6 | 68.2 | -16.6 | Peak | Vertical |
| | 11735.5 | 31.4 | 19.0 | 50.5 | 54.0 | -3.5 | Peak | Vertical |
| | 15658.3 | 21.1 | 21.4 | 42.5 | 54.0 | -11.5 | Average | Vertical |
| | 15671.0 | 32.8 | 21.4 | 54.1 | 54.0 | 0.1 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/07/12 |
| Test Mode: | 802.11ac-VHT20 - Ant 0 + 1 | Test Channel: | 48 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8786.0 | 32.5 | 13.9 | 46.3 | 68.2 | -21.9 | Peak | Horizontal |
| * | 10129.0 | 32.0 | 16.3 | 48.4 | 68.2 | -19.8 | Peak | Horizontal |
| | 11820.5 | 30.4 | 19.0 | 49.4 | 54.0 | -4.6 | Peak | Horizontal |
| | 15560.5 | 27.3 | 21.7 | 49.1 | 54.0 | -4.9 | Peak | Horizontal |
| * | 8845.5 | 33.6 | 14.0 | 47.6 | 68.2 | -20.6 | Peak | Vertical |
| * | 10120.5 | 32.8 | 16.3 | 49.1 | 68.2 | -19.1 | Peak | Vertical |
| | 11888.5 | 30.8 | 18.9 | 49.7 | 54.0 | -4.3 | Peak | Vertical |
| | 15713.5 | 35.9 | 21.2 | 57.1 | 54.0 | 3.1 | Peak | Vertical |
| | 15719.2 | 22.9 | 21.2 | 44.0 | 54.0 | -10.0 | Average | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/07/12 |
| Test Mode: | 802.11ac-VHT20 - Ant 0 + 1 | Test Channel: | 149 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBµV) | Factor (dB) | Measure Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8692.5 | 33.0 | 13.6 | 46.6 | 68.2 | -21.6 | Peak | Horizontal |
| * | 10290.5 | 34.4 | 17.0 | 51.5 | 68.2 | -16.7 | Peak | Horizontal |
| | 12220.0 | 30.7 | 18.6 | 49.3 | 54.0 | -4.7 | Peak | Horizontal |
| | 15832.5 | 27.4 | 20.8 | 48.2 | 54.0 | -5.8 | Peak | Horizontal |
| * | 8692.5 | 34.5 | 13.6 | 48.2 | 68.2 | -20.0 | Peak | Vertical |
| * | 10384.0 | 34.3 | 17.5 | 51.7 | 68.2 | -16.5 | Peak | Vertical |
| | 11795.0 | 31.7 | 19.0 | 50.7 | 54.0 | -3.3 | Peak | Vertical |
| | 15773.0 | 28.3 | 21.0 | 49.3 | 54.0 | -4.7 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBµV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/07/12 |
| Test Mode: | 802.11ac-VHT20 - Ant 0 + 1 | Test Channel: | 157 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8811.5 | 33.7 | 13.9 | 47.6 | 68.2 | -20.6 | Peak | Horizontal |
| * | 10035.5 | 32.0 | 15.9 | 47.9 | 68.2 | -20.3 | Peak | Horizontal |
| | 11718.5 | 30.4 | 19.1 | 49.4 | 54.0 | -4.6 | Peak | Horizontal |
| | 15807.0 | 27.3 | 20.9 | 48.2 | 54.0 | -5.8 | Peak | Horizontal |
| * | 8794.5 | 32.1 | 13.9 | 46.0 | 68.2 | -22.2 | Peak | Vertical |
| * | 9959.0 | 32.7 | 15.7 | 48.3 | 68.2 | -19.9 | Peak | Vertical |
| | 11846.0 | 29.4 | 19.0 | 48.3 | 54.0 | -5.7 | Peak | Vertical |
| | 15849.5 | 27.7 | 20.7 | 48.4 | 54.0 | -5.6 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/07/12 |
| Test Mode: | 802.11ac-VHT20 - Ant 0 + 1 | Test Channel: | 165 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBµV) | Factor (dB) | Measure Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8624.5 | 34.3 | 13.5 | 47.8 | 68.2 | -20.4 | Peak | Horizontal |
| * | 9967.5 | 32.6 | 15.7 | 48.3 | 68.2 | -19.9 | Peak | Horizontal |
| | 11948.0 | 31.2 | 18.9 | 50.0 | 54.0 | -4.0 | Peak | Horizontal |
| | 15849.5 | 27.1 | 20.7 | 47.8 | 54.0 | -6.2 | Peak | Horizontal |
| * | 8709.5 | 32.5 | 13.7 | 46.1 | 68.2 | -22.1 | Peak | Vertical |
| * | 10035.5 | 33.0 | 15.9 | 48.9 | 68.2 | -19.3 | Peak | Vertical |
| | 11846.0 | 31.1 | 19.0 | 50.0 | 54.0 | -4.0 | Peak | Vertical |
| | 15909.0 | 27.9 | 20.5 | 48.4 | 54.0 | -5.6 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBµV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/07/12 |
| Test Mode: | 802.11ac-VHT40 - Ant 0 + 1 | Test Channel: | 38 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8675.5 | 34.0 | 13.6 | 47.6 | 68.2 | -20.6 | Peak | Horizontal |
| * | 9831.5 | 34.3 | 15.4 | 49.6 | 68.2 | -18.6 | Peak | Horizontal |
| | 11489.0 | 31.1 | 19.2 | 50.3 | 54.0 | -3.7 | Peak | Horizontal |
| | 15841.0 | 27.6 | 20.8 | 48.4 | 54.0 | -5.6 | Peak | Horizontal |
| * | 8718.0 | 32.5 | 13.7 | 46.2 | 68.2 | -22.0 | Peak | Vertical |
| * | 10078.0 | 32.1 | 16.1 | 48.2 | 68.2 | -20.0 | Peak | Vertical |
| | 11684.5 | 31.6 | 19.1 | 50.7 | 54.0 | -3.3 | Peak | Vertical |
| | 15849.5 | 27.4 | 20.7 | 48.1 | 54.0 | -5.9 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/07/12 |
| Test Mode: | 802.11ac-VHT40 - Ant 0 + 1 | Test Channel: | 46 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8786.0 | 32.1 | 13.9 | 46.0 | 68.2 | -22.2 | Peak | Horizontal |
| * | 9916.5 | 32.9 | 15.6 | 48.5 | 68.2 | -19.7 | Peak | Horizontal |
| | 11650.5 | 31.6 | 19.1 | 50.7 | 54.0 | -3.3 | Peak | Horizontal |
| | 15900.5 | 27.5 | 20.6 | 48.1 | 54.0 | -5.9 | Peak | Horizontal |
| * | 8769.0 | 33.6 | 13.8 | 47.4 | 68.2 | -20.8 | Peak | Vertical |
| * | 10044.0 | 33.4 | 16.0 | 49.3 | 68.2 | -18.9 | Peak | Vertical |
| | 11438.0 | 30.7 | 19.2 | 50.0 | 54.0 | -4.0 | Peak | Vertical |
| | 15815.5 | 27.7 | 20.9 | 48.6 | 54.0 | -5.4 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/07/12 |
| Test Mode: | 802.11ac-VHT40 - Ant 0 + 1 | Test Channel: | 151 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8769.0 | 32.2 | 13.8 | 46.1 | 68.2 | -22.1 | Peak | Horizontal |
| * | 9959.0 | 33.3 | 15.7 | 48.9 | 68.2 | -19.3 | Peak | Horizontal |
| | 11948.0 | 31.7 | 18.9 | 50.5 | 54.0 | -3.5 | Peak | Horizontal |
| | 15858.0 | 27.5 | 20.7 | 48.2 | 54.0 | -5.8 | Peak | Horizontal |
| * | 8684.0 | 34.5 | 13.6 | 48.1 | 68.2 | -20.1 | Peak | Vertical |
| * | 9772.0 | 33.1 | 15.2 | 48.3 | 68.2 | -19.9 | Peak | Vertical |
| | 11735.5 | 30.7 | 19.0 | 49.7 | 54.0 | -4.3 | Peak | Vertical |
| | 15764.5 | 27.7 | 21.0 | 48.8 | 54.0 | -5.2 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/07/12 |
| Test Mode: | 802.11ac-VHT40 - Ant 0 + 1 | Test Channel: | 159 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8794.5 | 33.8 | 13.9 | 47.7 | 68.2 | -20.5 | Peak | Horizontal |
| * | 9942.0 | 34.2 | 15.6 | 49.8 | 68.2 | -18.4 | Peak | Horizontal |
| | 11582.5 | 31.1 | 19.2 | 50.3 | 54.0 | -3.7 | Peak | Horizontal |
| | 15815.5 | 27.4 | 20.9 | 48.2 | 54.0 | -5.8 | Peak | Horizontal |
| * | 8743.5 | 34.0 | 13.8 | 47.7 | 68.2 | -20.5 | Peak | Vertical |
| * | 10078.0 | 32.4 | 16.1 | 48.5 | 68.2 | -19.7 | Peak | Vertical |
| | 11514.5 | 30.9 | 19.2 | 50.2 | 54.0 | -3.8 | Peak | Vertical |
| | 15858.0 | 27.4 | 20.7 | 48.1 | 54.0 | -5.9 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/07/12 |
| Test Mode: | 802.11ac-VHT80 - Ant 0 + 1 | Test Channel: | 42 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8803.0 | 32.1 | 13.9 | 46.0 | 68.2 | -22.2 | Peak | Horizontal |
| * | 10180.0 | 31.7 | 16.6 | 48.2 | 68.2 | -20.0 | Peak | Horizontal |
| | 11803.5 | 30.1 | 19.0 | 49.1 | 54.0 | -4.9 | Peak | Horizontal |
| | 15926.0 | 28.1 | 20.5 | 48.5 | 54.0 | -5.5 | Peak | Horizontal |
| * | 8684.0 | 34.5 | 13.6 | 48.1 | 68.2 | -20.1 | Peak | Vertical |
| * | 10035.5 | 33.0 | 15.9 | 48.9 | 68.2 | -19.3 | Peak | Vertical |
| | 11812.0 | 30.7 | 19.0 | 49.7 | 54.0 | -4.3 | Peak | Vertical |
| | 15900.5 | 27.8 | 20.6 | 48.3 | 54.0 | -5.7 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/07/12 |
| Test Mode: | 802.11ac-VHT80 - Ant 0 + 1 | Test Channel: | 155 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8616.0 | 33.9 | 13.4 | 47.3 | 68.2 | -20.9 | Peak | Horizontal |
| * | 10248.0 | 33.1 | 16.9 | 49.9 | 68.2 | -18.3 | Peak | Horizontal |
| | 11795.0 | 30.8 | 19.0 | 49.8 | 54.0 | -4.2 | Peak | Horizontal |
| | 15790.0 | 27.1 | 20.9 | 48.0 | 54.0 | -6.0 | Peak | Horizontal |
| * | 8658.5 | 33.0 | 13.5 | 46.5 | 68.2 | -21.7 | Peak | Vertical |
| * | 10103.5 | 32.0 | 16.2 | 48.2 | 68.2 | -20.0 | Peak | Vertical |
| | 11684.5 | 32.4 | 19.1 | 51.5 | 54.0 | -2.5 | Peak | Vertical |
| | 15858.0 | 28.0 | 20.7 | 48.7 | 54.0 | -5.3 | Peak | Vertical |

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/07/12 |
| Test Mode: | 802.11ax-HE20 - Ant 0 + 1 | Test Channel: | 36 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBµV) | Factor (dB) | Measure Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8752.0 | 34.3 | 13.8 | 48.1 | 68.2 | -20.1 | Peak | Horizontal |
| * | 9857.0 | 33.5 | 15.4 | 48.9 | 68.2 | -19.3 | Peak | Horizontal |
| | 11633.5 | 30.0 | 19.1 | 49.1 | 54.0 | -4.9 | Peak | Horizontal |
| | 15790.0 | 27.4 | 20.9 | 48.3 | 54.0 | -5.7 | Peak | Horizontal |
| * | 8820.0 | 34.4 | 13.9 | 48.3 | 68.2 | -19.9 | Peak | Vertical |
| * | 10069.5 | 32.1 | 16.1 | 48.2 | 68.2 | -20.0 | Peak | Vertical |
| | 11489.0 | 31.3 | 19.2 | 50.6 | 54.0 | -3.4 | Peak | Vertical |
| | 15892.0 | 27.9 | 20.6 | 48.5 | 54.0 | -5.5 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBµV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/07/12 |
| Test Mode: | 802.11ax-HE20 - Ant 0 + 1 | Test Channel: | 44 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8794.5 | 31.9 | 13.9 | 45.8 | 68.2 | -22.4 | Peak | Horizontal |
| * | 10341.5 | 31.0 | 17.3 | 48.3 | 68.2 | -19.9 | Peak | Horizontal |
| | 11752.5 | 30.1 | 19.0 | 49.2 | 54.0 | -4.8 | Peak | Horizontal |
| | 15909.0 | 27.4 | 20.5 | 48.0 | 54.0 | -6.0 | Peak | Horizontal |
| * | 8786.0 | 31.9 | 13.9 | 45.8 | 68.2 | -22.4 | Peak | Vertical |
| * | 10120.5 | 32.9 | 16.3 | 49.2 | 68.2 | -19.0 | Peak | Vertical |
| | 11948.0 | 31.5 | 18.9 | 50.4 | 54.0 | -3.6 | Peak | Vertical |
| | 15662.5 | 33.0 | 21.4 | 54.4 | 54.0 | 0.4 | Peak | Vertical |
| | 15663.5 | 21.4 | 21.4 | 42.8 | 54.0 | -11.2 | Average | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/07/12 |
| Test Mode: | 802.11ax-HE20 - Ant 0 + 1 | Test Channel: | 48 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8811.5 | 32.3 | 13.9 | 46.2 | 68.2 | -22.0 | Peak | Horizontal |
| * | 10078.0 | 32.2 | 16.1 | 48.3 | 68.2 | -19.9 | Peak | Horizontal |
| | 12075.5 | 30.4 | 18.7 | 49.1 | 54.0 | -4.9 | Peak | Horizontal |
| | 15781.5 | 26.9 | 21.0 | 47.9 | 54.0 | -6.1 | Peak | Horizontal |
| * | 8735.0 | 33.1 | 13.7 | 46.9 | 68.2 | -21.3 | Peak | Vertical |
| * | 10137.5 | 31.8 | 16.4 | 48.2 | 68.2 | -20.0 | Peak | Vertical |
| | 11846.0 | 31.8 | 19.0 | 50.8 | 54.0 | -3.2 | Peak | Vertical |
| | 15722.0 | 34.1 | 21.2 | 55.3 | 54.0 | 1.3 | Peak | Vertical |
| | 15724.6 | 22.2 | 21.2 | 43.4 | 54.0 | -10.6 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/07/12 |
| Test Mode: | 802.11ax-HE20 - Ant 0 + 1 | Test Channel: | 149 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8718.0 | 32.5 | 13.7 | 46.2 | 68.2 | -22.0 | Peak | Horizontal |
| * | 9891.0 | 32.5 | 15.5 | 48.0 | 68.2 | -20.2 | Peak | Horizontal |
| | 11786.5 | 30.5 | 19.0 | 49.5 | 54.0 | -4.5 | Peak | Horizontal |
| | 15569.0 | 27.3 | 21.7 | 49.0 | 54.0 | -5.0 | Peak | Horizontal |
| * | 8667.0 | 33.0 | 13.6 | 46.6 | 68.2 | -21.6 | Peak | Vertical |
| * | 9899.5 | 33.4 | 15.5 | 48.9 | 68.2 | -19.3 | Peak | Vertical |
| | 11837.5 | 30.1 | 19.0 | 49.0 | 54.0 | -5.0 | Peak | Vertical |
| | 15662.5 | 27.4 | 21.4 | 48.7 | 54.0 | -5.3 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/07/12 |
| Test Mode: | 802.11ax-HE20 - Ant 0 + 1 | Test Channel: | 157 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBµV) | Factor (dB) | Measure Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8794.5 | 32.5 | 13.9 | 46.4 | 68.2 | -21.8 | Peak | Horizontal |
| * | 10426.5 | 31.1 | 17.6 | 48.7 | 68.2 | -19.5 | Peak | Horizontal |
| | 12415.5 | 30.1 | 18.4 | 48.5 | 54.0 | -5.5 | Peak | Horizontal |
| | 14479.7 | 20.5 | 22.2 | 42.6 | 54.0 | -11.4 | Peak | Horizontal |
| * | 14498.0 | 35.7 | 22.2 | 57.9 | 54.0 | 3.9 | Peak | Vertical |
| * | 8777.5 | 32.8 | 13.8 | 46.7 | 68.2 | -21.5 | Peak | Vertical |
| | 9814.5 | 32.8 | 15.3 | 48.2 | 68.2 | -20.0 | Peak | Vertical |
| | 11531.5 | 30.9 | 19.2 | 50.2 | 54.0 | -3.9 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBµV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/07/12 |
| Test Mode: | 802.11ax-HE20 - Ant 0 + 1 | Test Channel: | 165 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8820.0 | 34.4 | 13.9 | 48.3 | 68.2 | -19.9 | Peak | Horizontal |
| * | 10265.0 | 31.1 | 16.9 | 48.0 | 68.2 | -20.2 | Peak | Horizontal |
| | 11531.5 | 30.3 | 19.2 | 49.5 | 54.0 | -4.5 | Peak | Horizontal |
| | 15841.0 | 27.2 | 20.8 | 48.0 | 54.0 | -6.0 | Peak | Horizontal |
| * | 8701.0 | 33.4 | 13.6 | 47.0 | 68.2 | -21.2 | Peak | Vertical |
| * | 10078.0 | 31.5 | 16.1 | 47.6 | 68.2 | -20.6 | Peak | Vertical |
| | 11778.0 | 30.0 | 19.0 | 49.0 | 54.0 | -5.0 | Peak | Vertical |
| | 16070.5 | 27.7 | 20.5 | 48.2 | 54.0 | -5.8 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/07/12 |
| Test Mode: | 802.11ax-HE40 - Ant 0 + 1 | Test Channel: | 38 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8769.0 | 32.3 | 13.8 | 46.2 | 68.2 | -22.0 | Peak | Horizontal |
| * | 9823.0 | 32.8 | 15.4 | 48.2 | 68.2 | -20.0 | Peak | Horizontal |
| | 12279.5 | 30.6 | 18.5 | 49.1 | 54.0 | -4.9 | Peak | Horizontal |
| | 15773.0 | 27.8 | 21.0 | 48.8 | 54.0 | -5.2 | Peak | Horizontal |
| * | 8973.0 | 31.5 | 14.3 | 45.8 | 68.2 | -22.4 | Peak | Vertical |
| * | 9942.0 | 33.0 | 15.6 | 48.6 | 68.2 | -19.6 | Peak | Vertical |
| | 11905.5 | 30.3 | 18.9 | 49.2 | 54.0 | -4.8 | Peak | Vertical |
| | 15798.5 | 27.3 | 20.9 | 48.2 | 54.0 | -5.8 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/07/12 |
| Test Mode: | 802.11ax-HE40 - Ant 0 + 1 | Test Channel: | 46 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBµV) | Factor (dB) | Measure Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8692.5 | 33.2 | 13.6 | 46.9 | 68.2 | -21.3 | Peak | Horizontal |
| * | 10103.5 | 31.5 | 16.2 | 47.8 | 68.2 | -20.4 | Peak | Horizontal |
| | 11846.0 | 29.9 | 19.0 | 48.8 | 54.0 | -5.2 | Peak | Horizontal |
| | 15654.0 | 27.1 | 21.4 | 48.5 | 54.0 | -5.5 | Peak | Horizontal |
| * | 8811.5 | 33.1 | 13.9 | 47.1 | 68.2 | -21.1 | Peak | Vertical |
| * | 10078.0 | 32.0 | 16.1 | 48.2 | 68.2 | -20.0 | Peak | Vertical |
| | 11965.0 | 29.9 | 18.9 | 48.8 | 54.0 | -5.2 | Peak | Vertical |
| | 15790.0 | 26.9 | 20.9 | 47.8 | 54.0 | -6.2 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBµV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/07/12 |
| Test Mode: | 802.11ax-HE40 - Ant 0 + 1 | Test Channel: | 151 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8667.0 | 34.1 | 13.6 | 47.7 | 68.2 | -20.5 | Peak | Horizontal |
| * | 9916.5 | 33.0 | 15.6 | 48.5 | 68.2 | -19.7 | Peak | Horizontal |
| | 11710.0 | 31.0 | 19.1 | 50.0 | 54.0 | -4.0 | Peak | Horizontal |
| | 15781.5 | 27.1 | 21.0 | 48.0 | 54.0 | -6.0 | Peak | Horizontal |
| * | 8692.5 | 33.2 | 13.6 | 46.8 | 68.2 | -21.4 | Peak | Vertical |
| * | 9831.5 | 32.4 | 15.4 | 47.8 | 68.2 | -20.4 | Peak | Vertical |
| | 11871.5 | 30.1 | 18.9 | 49.0 | 54.0 | -5.0 | Peak | Vertical |
| | 15858.0 | 27.1 | 20.7 | 47.8 | 54.0 | -6.2 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/07/12 |
| Test Mode: | 802.11ax-HE40 - Ant 0 + 1 | Test Channel: | 159 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBµV) | Factor (dB) | Measure Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8565.0 | 33.3 | 13.3 | 46.6 | 68.2 | -21.6 | Peak | Horizontal |
| * | 9789.0 | 32.4 | 15.3 | 47.7 | 68.2 | -20.5 | Peak | Horizontal |
| | 11812.0 | 29.8 | 19.0 | 48.8 | 54.0 | -5.2 | Peak | Horizontal |
| | 15858.0 | 27.8 | 20.7 | 48.5 | 54.0 | -5.5 | Peak | Horizontal |
| * | 8582.0 | 35.2 | 13.4 | 48.5 | 68.2 | -19.7 | Peak | Vertical |
| * | 9712.5 | 32.1 | 15.1 | 47.2 | 68.2 | -21.0 | Peak | Vertical |
| | 11778.0 | 29.8 | 19.0 | 48.8 | 54.0 | -5.2 | Peak | Vertical |
| | 15849.5 | 27.5 | 20.7 | 48.2 | 54.0 | -5.8 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBµV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/07/12 |
| Test Mode: | 802.11ax-HE80 - Ant 0 + 1 | Test Channel: | 42 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8743.5 | 33.5 | 13.8 | 47.2 | 68.2 | -21.0 | Peak | Horizontal |
| * | 10222.5 | 32.8 | 16.7 | 49.6 | 68.2 | -18.6 | Peak | Horizontal |
| | 11897.0 | 30.8 | 18.9 | 49.8 | 54.0 | -4.3 | Peak | Horizontal |
| | 15858.0 | 27.5 | 20.7 | 48.2 | 54.0 | -5.8 | Peak | Horizontal |
| * | 8760.5 | 31.7 | 13.8 | 45.5 | 68.2 | -22.7 | Peak | Vertical |
| * | 10044.0 | 32.2 | 16.0 | 48.2 | 68.2 | -20.0 | Peak | Vertical |
| | 11506.0 | 30.8 | 19.2 | 50.1 | 54.0 | -3.9 | Peak | Vertical |
| | 15637.0 | 29.2 | 21.5 | 50.7 | 54.0 | -3.3 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/07/12 |
| Test Mode: | 802.11ax-HE80 - Ant 0 + 1 | Test Channel: | 155 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8735.0 | 33.6 | 13.7 | 47.3 | 68.2 | -20.9 | Peak | Horizontal |
| * | 10095.0 | 31.9 | 16.2 | 48.1 | 68.2 | -20.1 | Peak | Horizontal |
| | 12109.5 | 30.7 | 18.7 | 49.4 | 54.0 | -4.6 | Peak | Horizontal |
| | 15832.5 | 27.5 | 20.8 | 48.3 | 54.0 | -5.7 | Peak | Horizontal |
| * | 8624.5 | 32.5 | 13.5 | 45.9 | 68.2 | -22.3 | Peak | Vertical |
| * | 10069.5 | 31.9 | 16.1 | 48.0 | 68.2 | -20.2 | Peak | Vertical |
| | 12033.0 | 30.4 | 18.8 | 49.2 | 54.0 | -4.8 | Peak | Vertical |
| | 15858.0 | 27.5 | 20.7 | 48.2 | 54.0 | -5.8 | Peak | Vertical |

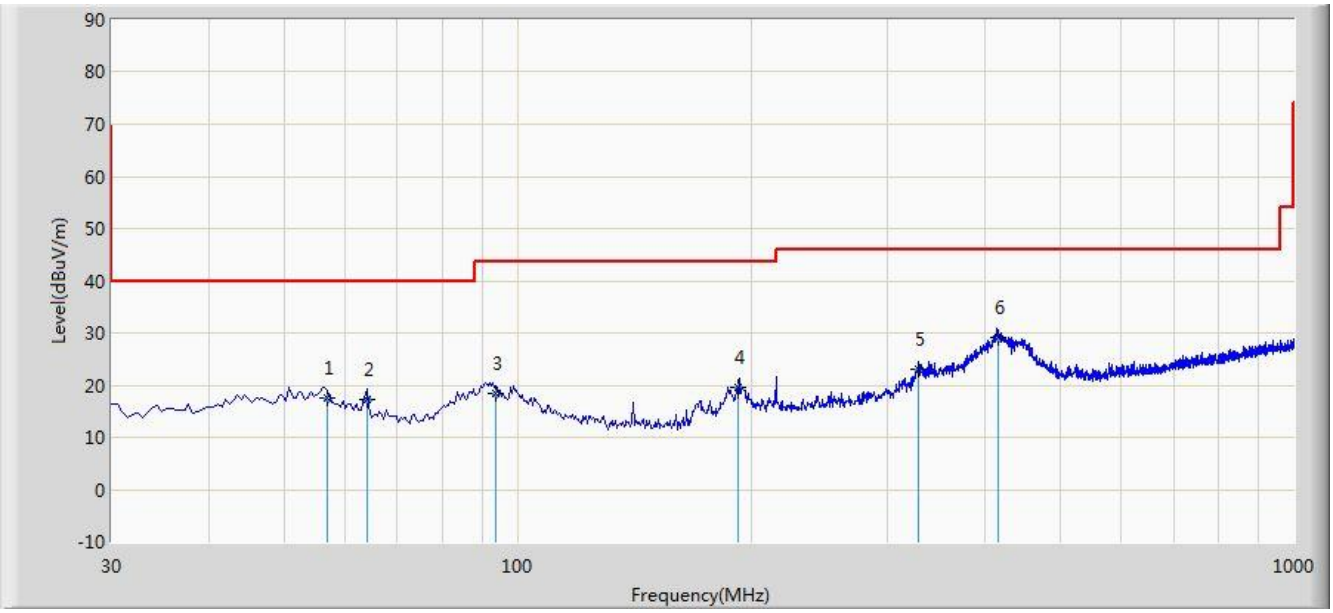
Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

**The Worst Case of Radiated Emission below 1GHz:**

| | |
|---|---|
| Site: AC1 | Time: 2019/07/13 - 13:26 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Kevin Ker |
| Probe: VULB 9168_20-2000MHz | Polarity: Horizontal |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| **Test Mode: There is the worst case within frequency range 30MHz~1GHz.** | |



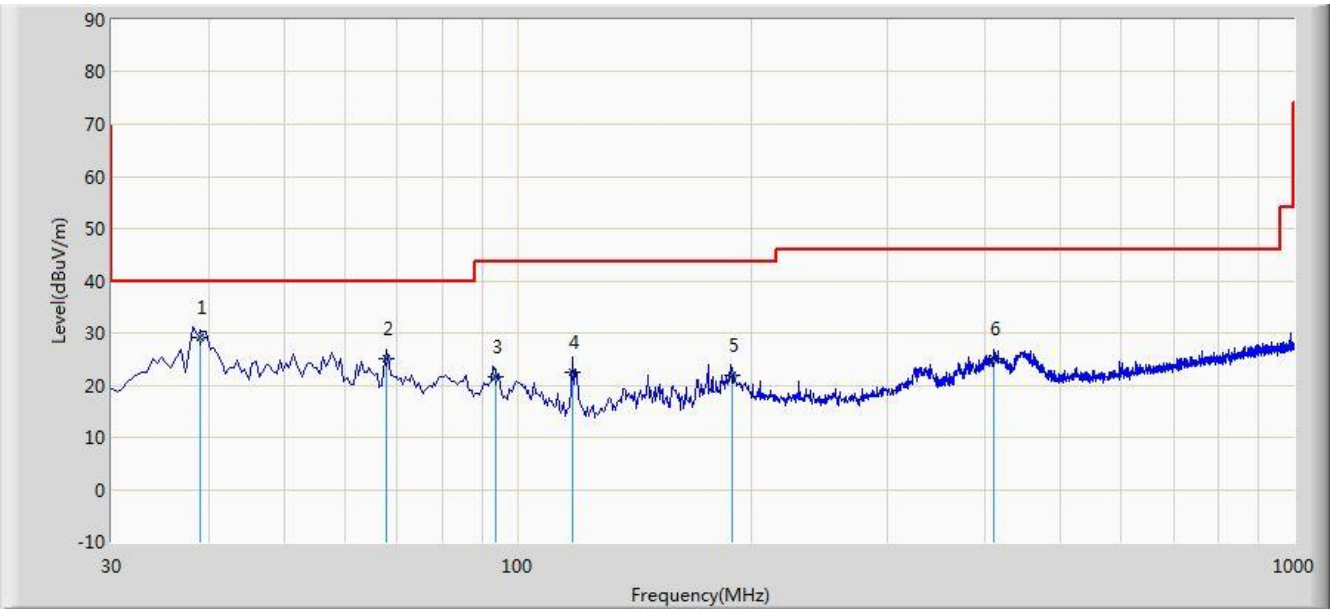

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 56.790 | 17.564 | -3.105 | -22.436 | 40.000 | 20.669 | QP |
| 2 | | | 63.950 | 17.376 | -0.983 | -22.624 | 40.000 | 18.359 | QP |
| 3 | | | 93.640 | 18.538 | 0.761 | -24.962 | 43.500 | 17.777 | QP |
| 4 | | | 192.680 | 19.702 | 0.944 | -23.798 | 43.500 | 18.758 | QP |
| 5 | | * | 328.394 | 22.982 | 0.487 | -23.018 | 46.000 | 22.495 | QP |
| 6 | | | 415.700 | 29.217 | 5.091 | -16.783 | 46.000 | 24.125 | QP |

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 40GHz), therefore no data appear in the report. Besides, there is a comparison data of both open-field test site and alternative test site semi-Anechoic chamber according to KDB 414788 D01 radiated test site v01r01, this comparison result was very similar.

| | |
|---|---|
| Site: AC1 | Time: 2019/07/13 - 13:30 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Kevin Ker |
| Probe: VULB 9168_20-2000MHz | Polarity: Vertical |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| **Test Mode: There is the worst case within frequency range 30MHz~1GHz.** | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 38.940 | 29.078 | 8.708 | -10.922 | 40.000 | 20.371 | QP |
| 2 | | | 67.890 | 25.059 | 8.449 | -14.941 | 40.000 | 16.610 | QP |
| 3 | | | 93.598 | 21.487 | 3.719 | -22.013 | 43.500 | 17.768 | QP |
| 4 | | | 117.970 | 22.594 | 4.391 | -20.906 | 43.500 | 18.203 | QP |
| 5 | | | 188.940 | 21.882 | 3.440 | -21.618 | 43.500 | 18.442 | QP |
| 6 | | | 410.590 | 25.179 | 1.107 | -20.821 | 46.000 | 24.072 | QP |

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 40GHz), therefore no data appear in the report. Besides, there is a comparison data of both open-field test site and alternative test site semi-Anechoic chamber according to KDB 414788 D01 radiated test site v01r01, this comparison result was very similar.

**For APIN0505:**

| | | | |
|---|---|---|---|
| Product | ACCESS POINT | Temperature | 26°C |
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/28 |
| Test Mode: | 802.11a - Ant 0 + 1 | Test Channel: | 36 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| | 7502.5 | 34.3 | 12.7 | 47.0 | 54.0 | -7.0 | Peak | Horizontal |
| | 8310.0 | 34.9 | 13.1 | 48.0 | 54.0 | -6.0 | Peak | Horizontal |
| * | 8726.5 | 33.8 | 13.7 | 47.5 | 68.2 | -20.7 | Peak | Horizontal |
| * | 9772.0 | 34.3 | 15.2 | 49.5 | 68.2 | -18.7 | Peak | Horizontal |
| | 7468.5 | 35.9 | 12.6 | 48.5 | 54.0 | -5.5 | Peak | Vertical |
| | 8165.5 | 34.5 | 13.0 | 47.5 | 54.0 | -6.5 | Peak | Vertical |
| * | 8692.5 | 34.9 | 13.6 | 48.5 | 68.2 | -19.7 | Peak | Vertical |
| * | 9865.5 | 33.5 | 15.5 | 49.0 | 68.2 | -19.2 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/28 |
| Test Mode: | 802.11a - Ant 0 + 1 | Test Channel: | 44 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| | 7638.5 | 34.8 | 12.8 | 47.6 | 54.0 | -6.4 | Peak | Horizontal |
| | 8242.0 | 34.2 | 13.0 | 47.2 | 54.0 | -6.8 | Peak | Horizontal |
| * | 8820.0 | 33.7 | 13.9 | 47.6 | 68.2 | -20.6 | Peak | Horizontal |
| * | 9857.0 | 34.2 | 15.4 | 49.6 | 68.2 | -18.6 | Peak | Horizontal |
| | 11701.5 | 32.9 | 19.1 | 52.0 | 54.0 | -2.0 | Peak | Vertical |
| | 15662.5 | 32.2 | 21.4 | 53.6 | 54.0 | -0.4 | Peak | Vertical |
| * | 9661.5 | 35.5 | 15.0 | 50.5 | 68.2 | -17.7 | Peak | Vertical |
| * | 10350.0 | 32.5 | 17.3 | 49.8 | 68.2 | -18.4 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/28 |
| Test Mode: | 802.11a - Ant 0 + 1 | Test Channel: | 48 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| | 7672.5 | 35.1 | 12.8 | 47.9 | 54.0 | -6.1 | Peak | Horizontal |
| | 8386.5 | 34.8 | 12.3 | 47.1 | 54.0 | -6.9 | Peak | Horizontal |
| * | 8769.0 | 33.5 | 13.8 | 47.3 | 68.2 | -20.9 | Peak | Horizontal |
| * | 10171.5 | 33.2 | 16.5 | 49.7 | 68.2 | -18.5 | Peak | Horizontal |
| | 7494.0 | 34.4 | 12.7 | 47.1 | 54.0 | -6.9 | Peak | Vertical |
| | 8310.0 | 33.1 | 13.1 | 46.2 | 54.0 | -7.8 | Peak | Vertical |
| * | 9857.0 | 33.0 | 15.4 | 48.4 | 68.2 | -19.8 | Peak | Vertical |
| * | 10503.0 | 31.7 | 18.0 | 49.7 | 68.2 | -18.5 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/28 |
| Test Mode: | 802.11a - Ant 0 + 1 | Test Channel: | 149 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| | 7366.5 | 34.9 | 12.3 | 47.2 | 54.0 | -6.8 | Peak | Horizontal |
| | 8429.0 | 34.7 | 13.1 | 47.8 | 54.0 | -6.2 | Peak | Horizontal |
| * | 8913.5 | 34.8 | 14.2 | 49.0 | 68.2 | -19.2 | Peak | Horizontal |
| * | 9942.0 | 34.0 | 15.6 | 49.6 | 68.2 | -18.6 | Peak | Horizontal |
| | 7434.5 | 36.4 | 12.5 | 48.9 | 54.0 | -5.1 | Peak | Vertical |
| | 8395.0 | 35.1 | 13.1 | 48.2 | 54.0 | -5.8 | Peak | Vertical |
| * | 9874.0 | 34.0 | 15.5 | 49.5 | 68.2 | -18.7 | Peak | Vertical |
| * | 10367.0 | 32.6 | 17.4 | 50.0 | 68.2 | -18.2 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/28 |
| Test Mode: | 802.11a - Ant 0 + 1 | Test Channel: | 157 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| | 7485.5 | 35.3 | 12.7 | 48.0 | 54.0 | -6.0 | Peak | Horizontal |
| | 8242.0 | 34.6 | 13.0 | 47.6 | 54.0 | -6.4 | Peak | Horizontal |
| * | 8879.5 | 34.0 | 14.1 | 48.1 | 68.2 | -20.1 | Peak | Horizontal |
| * | 10231.0 | 33.7 | 16.8 | 50.5 | 68.2 | -17.7 | Peak | Horizontal |
| | 7502.5 | 37.0 | 12.7 | 49.7 | 54.0 | -4.3 | Peak | Vertical |
| | 8242.0 | 34.7 | 13.0 | 47.7 | 54.0 | -6.3 | Peak | Vertical |
| * | 9678.5 | 34.3 | 15.0 | 49.3 | 68.2 | -18.9 | Peak | Vertical |
| * | 10222.5 | 33.0 | 16.7 | 49.7 | 68.2 | -18.5 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/28 |
| Test Mode: | 802.11a - Ant 0 + 1 | Test Channel: | 165 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| | 7392.0 | 36.1 | 12.4 | 48.5 | 54.0 | -5.5 | Peak | Horizontal |
| | 7655.5 | 33.9 | 12.8 | 46.7 | 54.0 | -7.3 | Peak | Horizontal |
| * | 8658.5 | 33.6 | 13.5 | 47.1 | 68.2 | -21.1 | Peak | Horizontal |
| * | 9857.0 | 33.8 | 15.4 | 49.2 | 68.2 | -19.0 | Peak | Horizontal |
| | 7502.5 | 35.8 | 12.7 | 48.5 | 54.0 | -5.5 | Peak | Vertical |
| | 8276.0 | 34.3 | 13.1 | 47.4 | 54.0 | -6.6 | Peak | Vertical |
| * | 9942.0 | 34.0 | 15.6 | 49.6 | 68.2 | -18.6 | Peak | Vertical |
| * | 10452.0 | 32.0 | 17.8 | 49.8 | 68.2 | -18.4 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/28 |
| Test Mode: | 802.11ac-VHT20 - Ant 0 + 1 | Test Channel: | 36 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| | 7494.0 | 35.2 | 12.7 | 47.9 | 54.0 | -6.1 | Peak | Horizontal |
| | 8165.5 | 34.7 | 13.0 | 47.7 | 54.0 | -6.3 | Peak | Horizontal |
| * | 8743.5 | 34.2 | 13.8 | 48.0 | 68.2 | -20.2 | Peak | Horizontal |
| * | 9704.0 | 33.7 | 15.1 | 48.8 | 68.2 | -19.4 | Peak | Horizontal |
| | 7502.5 | 34.1 | 12.7 | 46.8 | 54.0 | -7.2 | Peak | Vertical |
| | 8335.5 | 34.8 | 13.1 | 47.9 | 54.0 | -6.1 | Peak | Vertical |
| * | 8701.0 | 33.8 | 13.6 | 47.4 | 68.2 | -20.8 | Peak | Vertical |
| * | 9925.0 | 34.0 | 15.6 | 49.6 | 68.2 | -18.6 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/28 |
| Test Mode: | 802.11ac-VHT20 - Ant 0 + 1 | Test Channel: | 44 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| | 7502.5 | 34.7 | 12.7 | 47.4 | 54.0 | -6.6 | Peak | Horizontal |
| | 8242.0 | 34.7 | 13.0 | 47.7 | 54.0 | -6.3 | Peak | Horizontal |
| * | 8667.0 | 33.3 | 13.6 | 46.9 | 68.2 | -21.3 | Peak | Horizontal |
| * | 10197.0 | 32.0 | 16.6 | 48.6 | 68.2 | -19.6 | Peak | Horizontal |
| | 7502.5 | 34.5 | 12.7 | 47.2 | 54.0 | -6.8 | Peak | Vertical |
| | 8131.5 | 33.4 | 13.0 | 46.4 | 54.0 | -7.6 | Peak | Vertical |
| * | 8735.0 | 33.1 | 13.7 | 46.8 | 68.2 | -21.4 | Peak | Vertical |
| * | 10103.5 | 31.9 | 16.2 | 48.1 | 68.2 | -20.1 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/28 |
| Test Mode: | 802.11ac-VHT20 - Ant 0 + 1 | Test Channel: | 48 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| | 7400.5 | 32.5 | 12.4 | 44.9 | 54.0 | -9.1 | Peak | Horizontal |
| | 8191.0 | 32.4 | 13.0 | 45.4 | 54.0 | -8.6 | Peak | Horizontal |
| * | 10078.0 | 30.7 | 16.1 | 46.8 | 68.2 | -21.4 | Peak | Horizontal |
| * | 10443.5 | 30.5 | 17.7 | 48.2 | 68.2 | -20.0 | Peak | Horizontal |
| | 7375.0 | 34.1 | 12.4 | 46.5 | 54.0 | -7.5 | Peak | Vertical |
| | 8310.0 | 33.5 | 13.1 | 46.6 | 54.0 | -7.4 | Peak | Vertical |
| * | 8743.5 | 32.1 | 13.8 | 45.9 | 68.2 | -22.3 | Peak | Vertical |
| * | 10069.5 | 30.8 | 16.1 | 46.9 | 68.2 | -21.3 | Peak | Vertical |

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/28 |
| Test Mode: | 802.11ac-VHT20 - Ant 0 + 1 | Test Channel: | 149 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| | 7519.5 | 33.8 | 12.7 | 46.5 | 54.0 | -7.5 | Peak | Horizontal |
| | 8429.0 | 33.7 | 13.1 | 46.8 | 54.0 | -7.2 | Peak | Horizontal |
| * | 8888.0 | 33.4 | 14.1 | 47.5 | 68.2 | -20.7 | Peak | Horizontal |
| * | 10341.5 | 31.1 | 17.3 | 48.4 | 68.2 | -19.8 | Peak | Horizontal |
| | 7341.0 | 34.5 | 12.3 | 46.8 | 54.0 | -7.2 | Peak | Vertical |
| | 8369.5 | 34.7 | 13.1 | 47.8 | 54.0 | -6.2 | Peak | Vertical |
| * | 10503.0 | 31.6 | 18.0 | 49.6 | 68.2 | -18.6 | Peak | Vertical |
| * | 13010.5 | 30.3 | 19.5 | 49.8 | 68.2 | -18.4 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/28 |
| Test Mode: | 802.11ac-VHT20 - Ant 0 + 1 | Test Channel: | 157 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| | 7375.0 | 34.6 | 12.4 | 47.0 | 54.0 | -7.0 | Peak | Horizontal |
| | 8276.0 | 32.2 | 13.1 | 45.3 | 54.0 | -8.7 | Peak | Horizontal |
| * | 9814.5 | 33.3 | 15.3 | 48.6 | 68.2 | -19.6 | Peak | Horizontal |
| * | 13070.0 | 30.3 | 19.7 | 50.0 | 68.2 | -18.2 | Peak | Horizontal |
| | 7468.5 | 34.0 | 12.6 | 46.6 | 54.0 | -7.4 | Peak | Vertical |
| | 9092.0 | 32.5 | 14.4 | 46.9 | 54.0 | -7.1 | Peak | Vertical |
| * | 10120.5 | 32.9 | 16.3 | 49.2 | 68.2 | -19.0 | Peak | Vertical |
| * | 13129.5 | 30.2 | 19.9 | 50.1 | 68.2 | -18.1 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/28 |
| Test Mode: | 802.11ac-VHT20 - Ant 0 + 1 | Test Channel: | 165 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| | 7485.5 | 34.3 | 12.7 | 47.0 | 54.0 | -7.0 | Peak | Horizontal |
| | 8335.5 | 33.5 | 13.1 | 46.6 | 54.0 | -7.4 | Peak | Horizontal |
| * | 9780.5 | 32.5 | 15.3 | 47.8 | 68.2 | -20.4 | Peak | Horizontal |
| * | 13240.0 | 31.8 | 20.2 | 52.0 | 68.2 | -16.2 | Peak | Horizontal |
| | 7655.5 | 33.4 | 12.8 | 46.2 | 54.0 | -7.8 | Peak | Vertical |
| | 8216.5 | 34.2 | 13.0 | 47.2 | 54.0 | -6.8 | Peak | Vertical |
| * | 9942.0 | 32.2 | 15.6 | 47.8 | 68.2 | -20.4 | Peak | Vertical |
| * | 13240.0 | 31.6 | 20.2 | 51.8 | 68.2 | -16.4 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/28 |
| Test Mode: | 802.11ac-VHT40 - Ant 0 + 1 | Test Channel: | 38 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| | 7621.5 | 33.6 | 12.8 | 46.4 | 54.0 | -7.6 | Peak | Horizontal |
| | 8199.5 | 33.2 | 13.0 | 46.2 | 54.0 | -7.8 | Peak | Horizontal |
| * | 9882.5 | 32.7 | 15.5 | 48.2 | 68.2 | -20.0 | Peak | Horizontal |
| * | 12968.0 | 31.3 | 19.4 | 50.7 | 68.2 | -17.5 | Peak | Horizontal |
| | 7443.0 | 34.8 | 12.6 | 47.4 | 54.0 | -6.6 | Peak | Vertical |
| | 8301.5 | 33.9 | 13.1 | 47.0 | 54.0 | -7.0 | Peak | Vertical |
| * | 10146.0 | 34.1 | 16.4 | 50.5 | 68.2 | -17.7 | Peak | Vertical |
| * | 13070.0 | 31.6 | 19.7 | 51.3 | 68.2 | -16.9 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/28 |
| Test Mode: | 802.11ac-VHT40 - Ant 0 + 1 | Test Channel: | 46 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| | 7638.5 | 34.1 | 12.8 | 46.9 | 54.0 | -7.1 | Peak | Horizontal |
| | 8242.0 | 33.1 | 13.0 | 46.1 | 54.0 | -7.9 | Peak | Horizontal |
| * | 9976.0 | 33.0 | 15.7 | 48.7 | 68.2 | -19.5 | Peak | Horizontal |
| * | 10443.5 | 31.1 | 17.7 | 48.8 | 68.2 | -19.4 | Peak | Horizontal |
| | 7579.0 | 33.5 | 12.8 | 46.3 | 54.0 | -7.7 | Peak | Vertical |
| | 8318.5 | 34.5 | 13.1 | 47.6 | 54.0 | -6.4 | Peak | Vertical |
| * | 9687.0 | 34.7 | 15.0 | 49.7 | 68.2 | -18.5 | Peak | Vertical |
| * | 13308.0 | 31.4 | 20.5 | 51.9 | 68.2 | -16.3 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/28 |
| Test Mode: | 802.11ac-VHT40 - Ant 0 + 1 | Test Channel: | 151 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| | 7502.5 | 33.7 | 12.7 | 46.4 | 54.0 | -7.6 | Peak | Horizontal |
| | 8344.0 | 34.0 | 13.1 | 47.1 | 54.0 | -6.9 | Peak | Horizontal |
| * | 8811.5 | 33.5 | 13.9 | 47.4 | 68.2 | -20.8 | Peak | Horizontal |
| * | 9857.0 | 32.7 | 15.4 | 48.1 | 68.2 | -20.1 | Peak | Horizontal |
| | 7400.5 | 34.7 | 12.4 | 47.1 | 54.0 | -6.9 | Peak | Vertical |
| | 8395.0 | 34.6 | 13.1 | 47.7 | 54.0 | -6.3 | Peak | Vertical |
| * | 9882.5 | 35.0 | 15.5 | 50.5 | 68.2 | -17.7 | Peak | Vertical |
| * | 10265.0 | 31.8 | 16.9 | 48.7 | 68.2 | -19.5 | Peak | Vertical |

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/28 |
| Test Mode: | 802.11ac-VHT40 - Ant 0 + 1 | Test Channel: | 159 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| | 7451.5 | 34.2 | 12.6 | 46.8 | 54.0 | -7.2 | Peak | Horizontal |
| | 8301.5 | 34.1 | 13.1 | 47.2 | 54.0 | -6.8 | Peak | Horizontal |
| * | 9899.5 | 33.6 | 15.5 | 49.1 | 68.2 | -19.1 | Peak | Horizontal |
| * | 13070.0 | 31.0 | 19.7 | 50.7 | 68.2 | -17.5 | Peak | Horizontal |
| | 7392.0 | 35.2 | 12.4 | 47.6 | 54.0 | -6.4 | Peak | Vertical |
| | 8208.0 | 33.6 | 13.0 | 46.6 | 54.0 | -7.4 | Peak | Vertical |
| * | 9738.0 | 32.7 | 15.2 | 47.9 | 68.2 | -20.3 | Peak | Vertical |
| * | 12942.5 | 32.4 | 19.4 | 51.8 | 68.2 | -16.4 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/28 |
| Test Mode: | 802.11ac-VHT80 - Ant 0 + 1 | Test Channel: | 42 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| | 7443.0 | 34.2 | 12.6 | 46.8 | 54.0 | -7.2 | Peak | Horizontal |
| | 8191.0 | 35.1 | 13.0 | 48.1 | 54.0 | -5.9 | Peak | Horizontal |
| * | 10299.0 | 33.0 | 17.1 | 50.1 | 68.2 | -18.1 | Peak | Horizontal |
| * | 12891.5 | 31.6 | 19.2 | 50.8 | 68.2 | -17.4 | Peak | Horizontal |
| | 7383.5 | 35.4 | 12.4 | 47.8 | 54.0 | -6.2 | Peak | Vertical |
| | 8165.5 | 33.9 | 13.0 | 46.9 | 54.0 | -7.1 | Peak | Vertical |
| * | 9772.0 | 33.0 | 15.2 | 48.2 | 68.2 | -20.0 | Peak | Vertical |
| * | 12951.0 | 30.2 | 19.4 | 49.6 | 68.2 | -18.6 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/28 |
| Test Mode: | 802.11ac-VHT80 - Ant 0 + 1 | Test Channel: | 155 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| | 7570.5 | 32.9 | 12.7 | 45.6 | 54.0 | -8.4 | Peak | Horizontal |
| | 8352.5 | 32.3 | 13.1 | 45.4 | 54.0 | -8.6 | Peak | Horizontal |
| * | 9874.0 | 34.0 | 15.5 | 49.5 | 68.2 | -18.7 | Peak | Horizontal |
| * | 10307.5 | 33.3 | 17.1 | 50.4 | 68.2 | -17.8 | Peak | Horizontal |
| | 7349.5 | 34.7 | 12.3 | 47.0 | 54.0 | -7.0 | Peak | Vertical |
| | 8165.5 | 34.9 | 13.0 | 47.9 | 54.0 | -6.1 | Peak | Vertical |
| * | 9814.5 | 33.4 | 15.3 | 48.7 | 68.2 | -19.5 | Peak | Vertical |
| * | 10358.5 | 33.7 | 17.3 | 51.0 | 68.2 | -17.2 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/28 |
| Test Mode: | 802.11ax-HE20 - Ant 0 + 1 | Test Channel: | 36 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| | 7349.5 | 34.7 | 12.3 | 47.0 | 54.0 | -7.0 | Peak | Horizontal |
| | 8310.0 | 35.7 | 13.1 | 48.8 | 54.0 | -5.2 | Peak | Horizontal |
| * | 9772.0 | 33.0 | 15.2 | 48.2 | 68.2 | -20.0 | Peak | Horizontal |
| * | 10426.5 | 32.1 | 17.6 | 49.7 | 68.2 | -18.5 | Peak | Horizontal |
| | 7443.0 | 34.6 | 12.6 | 47.2 | 54.0 | -6.8 | Peak | Vertical |
| | 8318.5 | 34.1 | 13.1 | 47.2 | 54.0 | -6.8 | Peak | Vertical |
| * | 9865.5 | 34.8 | 15.5 | 50.3 | 68.2 | -17.9 | Peak | Vertical |
| * | 10350.0 | 32.6 | 17.3 | 49.9 | 68.2 | -18.3 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/28 |
| Test Mode: | 802.11ax-HE20 - Ant 0 + 1 | Test Channel: | 44 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| | 7494.0 | 34.9 | 12.7 | 47.6 | 54.0 | -6.4 | Peak | Horizontal |
| | 8276.0 | 33.5 | 13.1 | 46.6 | 54.0 | -7.4 | Peak | Horizontal |
| * | 9814.5 | 33.1 | 15.3 | 48.4 | 68.2 | -19.8 | Peak | Horizontal |
| * | 10409.5 | 33.1 | 17.6 | 50.7 | 68.2 | -17.5 | Peak | Horizontal |
| | 7443.0 | 35.2 | 12.6 | 47.8 | 54.0 | -6.2 | Peak | Vertical |
| | 8259.0 | 35.0 | 13.0 | 48.0 | 54.0 | -6.0 | Peak | Vertical |
| * | 9585.0 | 35.0 | 14.8 | 49.8 | 68.2 | -18.4 | Peak | Vertical |
| * | 10163.0 | 34.0 | 16.5 | 50.5 | 68.2 | -17.7 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/28 |
| Test Mode: | 802.11ax-HE20 - Ant 0 + 1 | Test Channel: | 48 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| | 7341.0 | 34.8 | 12.3 | 47.1 | 54.0 | -6.9 | Peak | Horizontal |
| | 8199.5 | 35.3 | 13.0 | 48.3 | 54.0 | -5.7 | Peak | Horizontal |
| * | 9704.0 | 35.5 | 15.1 | 50.6 | 68.2 | -17.6 | Peak | Horizontal |
| * | 10282.0 | 33.1 | 17.0 | 50.1 | 68.2 | -18.1 | Peak | Horizontal |
| | 12220.0 | 33.3 | 18.6 | 51.9 | 54.0 | -2.1 | Peak | Vertical |
| | 15713.5 | 32.4 | 21.2 | 53.6 | 54.0 | -0.4 | Peak | Vertical |
| * | 8777.5 | 33.6 | 13.8 | 47.4 | 68.2 | -20.8 | Peak | Vertical |
| * | 10078.0 | 32.0 | 16.1 | 48.1 | 68.2 | -20.1 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/28 |
| Test Mode: | 802.11ax-HE20 - Ant 0 + 1 | Test Channel: | 149 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| | 7732.0 | 35.6 | 12.8 | 48.4 | 54.0 | -5.6 | Peak | Horizontal |
| | 8497.0 | 34.6 | 13.2 | 47.8 | 54.0 | -6.2 | Peak | Horizontal |
| * | 9704.0 | 32.9 | 15.1 | 48.0 | 68.2 | -20.2 | Peak | Horizontal |
| * | 10401.0 | 32.6 | 17.5 | 50.1 | 68.2 | -18.1 | Peak | Horizontal |
| | 7451.5 | 34.6 | 12.6 | 47.2 | 54.0 | -6.8 | Peak | Vertical |
| | 8242.0 | 33.6 | 13.0 | 46.6 | 54.0 | -7.4 | Peak | Vertical |
| * | 9721.0 | 32.8 | 15.1 | 47.9 | 68.2 | -20.3 | Peak | Vertical |
| * | 10273.5 | 32.1 | 17.0 | 49.1 | 68.2 | -19.1 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/28 |
| Test Mode: | 802.11ax-HE20 - Ant 0 + 1 | Test Channel: | 157 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| | 7638.5 | 33.7 | 12.8 | 46.5 | 54.0 | -7.5 | Peak | Horizontal |
| | 8412.0 | 34.3 | 13.1 | 47.4 | 54.0 | -6.6 | Peak | Horizontal |
| * | 9729.5 | 34.4 | 15.1 | 49.5 | 68.2 | -18.7 | Peak | Horizontal |
| * | 10256.5 | 32.9 | 16.9 | 49.8 | 68.2 | -18.4 | Peak | Horizontal |
| | 7443.0 | 33.8 | 12.6 | 46.4 | 54.0 | -7.6 | Peak | Vertical |
| | 8284.5 | 34.4 | 13.1 | 47.5 | 54.0 | -6.5 | Peak | Vertical |
| * | 9984.5 | 33.9 | 15.7 | 49.6 | 68.2 | -18.6 | Peak | Vertical |
| * | 10350.0 | 31.7 | 17.3 | 49.0 | 68.2 | -19.2 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/28 |
| Test Mode: | 802.11ax-HE20 - Ant 0 + 1 | Test Channel: | 165 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| | 7366.5 | 33.8 | 12.3 | 46.1 | 54.0 | -7.9 | Peak | Horizontal |
| | 8284.5 | 34.8 | 13.1 | 47.9 | 54.0 | -6.1 | Peak | Horizontal |
| * | 9831.5 | 33.5 | 15.4 | 48.9 | 68.2 | -19.3 | Peak | Horizontal |
| * | 10350.0 | 31.7 | 17.3 | 49.0 | 68.2 | -19.2 | Peak | Horizontal |
| | 7698.0 | 34.3 | 12.8 | 47.1 | 54.0 | -6.9 | Peak | Vertical |
| | 8497.0 | 35.0 | 13.2 | 48.2 | 54.0 | -5.8 | Peak | Vertical |
| * | 9814.5 | 33.9 | 15.3 | 49.2 | 68.2 | -19.0 | Peak | Vertical |
| * | 10256.5 | 32.3 | 16.9 | 49.2 | 68.2 | -19.0 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/28 |
| Test Mode: | 802.11ax-HE40 - Ant 0 + 1 | Test Channel: | 38 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| | 7502.5 | 34.3 | 12.7 | 47.0 | 54.0 | -7.0 | Peak | Horizontal |
| | 8182.5 | 35.5 | 13.0 | 48.5 | 54.0 | -5.5 | Peak | Horizontal |
| * | 9610.5 | 32.4 | 14.9 | 47.3 | 68.2 | -20.9 | Peak | Horizontal |
| * | 10120.5 | 32.2 | 16.3 | 48.5 | 68.2 | -19.7 | Peak | Horizontal |
| | 7332.5 | 32.9 | 12.2 | 45.1 | 54.0 | -8.9 | Peak | Vertical |
| | 8352.5 | 34.2 | 13.1 | 47.3 | 54.0 | -6.7 | Peak | Vertical |
| * | 9908.0 | 35.3 | 15.6 | 50.9 | 68.2 | -17.3 | Peak | Vertical |
| * | 10214.0 | 32.8 | 16.7 | 49.5 | 68.2 | -18.7 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/28 |
| Test Mode: | 802.11ax-HE40 - Ant 0 + 1 | Test Channel: | 46 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| | 7426.0 | 34.8 | 12.5 | 47.3 | 54.0 | -6.7 | Peak | Horizontal |
| | 8327.0 | 33.5 | 13.1 | 46.6 | 54.0 | -7.4 | Peak | Horizontal |
| * | 9755.0 | 34.7 | 15.2 | 49.9 | 68.2 | -18.3 | Peak | Horizontal |
| * | 10129.0 | 33.9 | 16.3 | 50.2 | 68.2 | -18.0 | Peak | Horizontal |
| | 7426.0 | 34.3 | 12.5 | 46.8 | 54.0 | -7.2 | Peak | Vertical |
| | 8378.0 | 33.8 | 13.1 | 46.9 | 54.0 | -7.1 | Peak | Vertical |
| * | 9721.0 | 32.4 | 15.1 | 47.5 | 68.2 | -20.7 | Peak | Vertical |
| * | 10443.5 | 31.5 | 17.7 | 49.2 | 68.2 | -19.0 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/28 |
| Test Mode: | 802.11ax-HE40 - Ant 0 + 1 | Test Channel: | 151 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| | 7502.5 | 34.0 | 12.7 | 46.7 | 54.0 | -7.3 | Peak | Horizontal |
| | 8361.0 | 33.9 | 13.1 | 47.0 | 54.0 | -7.0 | Peak | Horizontal |
| * | 9899.5 | 34.4 | 15.5 | 49.9 | 68.2 | -18.3 | Peak | Horizontal |
| * | 10307.5 | 32.3 | 17.1 | 49.4 | 68.2 | -18.8 | Peak | Horizontal |
| | 7587.5 | 34.5 | 12.8 | 47.3 | 54.0 | -6.7 | Peak | Vertical |
| | 8344.0 | 34.3 | 13.1 | 47.4 | 54.0 | -6.6 | Peak | Vertical |
| * | 9831.5 | 34.2 | 15.4 | 49.6 | 68.2 | -18.6 | Peak | Vertical |
| * | 10341.5 | 33.7 | 17.3 | 51.0 | 68.2 | -17.2 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/28 |
| Test Mode: | 802.11ax-HE40 - Ant 0 + 1 | Test Channel: | 159 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| | 7587.5 | 34.2 | 12.8 | 47.0 | 54.0 | -7.0 | Peak | Horizontal |
| | 8233.5 | 34.2 | 13.0 | 47.2 | 54.0 | -6.8 | Peak | Horizontal |
| * | 10350.0 | 33.1 | 17.3 | 50.4 | 68.2 | -17.8 | Peak | Horizontal |
| * | 13010.5 | 31.9 | 19.5 | 51.4 | 68.2 | -16.8 | Peak | Horizontal |
| | 7630.0 | 34.3 | 12.8 | 47.1 | 54.0 | -6.9 | Peak | Vertical |
| | 8140.0 | 35.7 | 13.0 | 48.7 | 54.0 | -5.3 | Peak | Vertical |
| * | 9984.5 | 34.8 | 15.7 | 50.5 | 68.2 | -17.7 | Peak | Vertical |
| * | 10341.5 | 32.5 | 17.3 | 49.8 | 68.2 | -18.4 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/28 |
| Test Mode: | 802.11ax-HE80 - Ant 0 + 1 | Test Channel: | 42 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| | 7451.5 | 34.7 | 12.6 | 47.3 | 54.0 | -6.7 | Peak | Horizontal |
| | 8267.5 | 35.2 | 13.1 | 48.3 | 54.0 | -5.7 | Peak | Horizontal |
| * | 8777.5 | 33.8 | 13.8 | 47.6 | 68.2 | -20.6 | Peak | Horizontal |
| * | 9831.5 | 34.8 | 15.4 | 50.2 | 68.2 | -18.0 | Peak | Horizontal |
| | 7494.0 | 34.7 | 12.7 | 47.4 | 54.0 | -6.6 | Peak | Vertical |
| | 8174.0 | 34.2 | 13.0 | 47.2 | 54.0 | -6.8 | Peak | Vertical |
| * | 8803.0 | 33.8 | 13.9 | 47.7 | 68.2 | -20.5 | Peak | Vertical |
| * | 10001.5 | 34.1 | 15.8 | 49.9 | 68.2 | -18.3 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | ACCESS POINT | Temperature | 26°C |
|---|---|---|---|
| Test Engineer | Kevin Ker | Relative Humidity | 57 % |
| Test Site | AC1 | Test Date | 2019/06/28 |
| Test Mode: | 802.11ax-HE80 - Ant 0 + 1 | Test Channel: | 155 |
| Remark: | 1. Average measurement was not performed if peak level lower than average limit. So the margin was calculated using the average limit for emissions fall within the restricted bands.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| | 7451.5 | 34.7 | 12.6 | 47.3 | 54.0 | -6.7 | Peak | Horizontal |
| | 8276.0 | 34.3 | 13.1 | 47.4 | 54.0 | -6.6 | Peak | Horizontal |
| * | 9729.5 | 34.2 | 15.1 | 49.3 | 68.2 | -18.9 | Peak | Horizontal |
| * | 10231.0 | 33.7 | 16.8 | 50.5 | 68.2 | -17.7 | Peak | Horizontal |
| | 7434.5 | 34.1 | 12.5 | 46.6 | 54.0 | -7.4 | Peak | Vertical |
| | 8182.5 | 35.5 | 13.0 | 48.5 | 54.0 | -5.5 | Peak | Vertical |
| * | 8922.0 | 34.9 | 14.2 | 49.1 | 68.2 | -19.1 | Peak | Vertical |
| * | 9976.0 | 34.5 | 15.7 | 50.2 | 68.2 | -18.0 | Peak | Vertical |

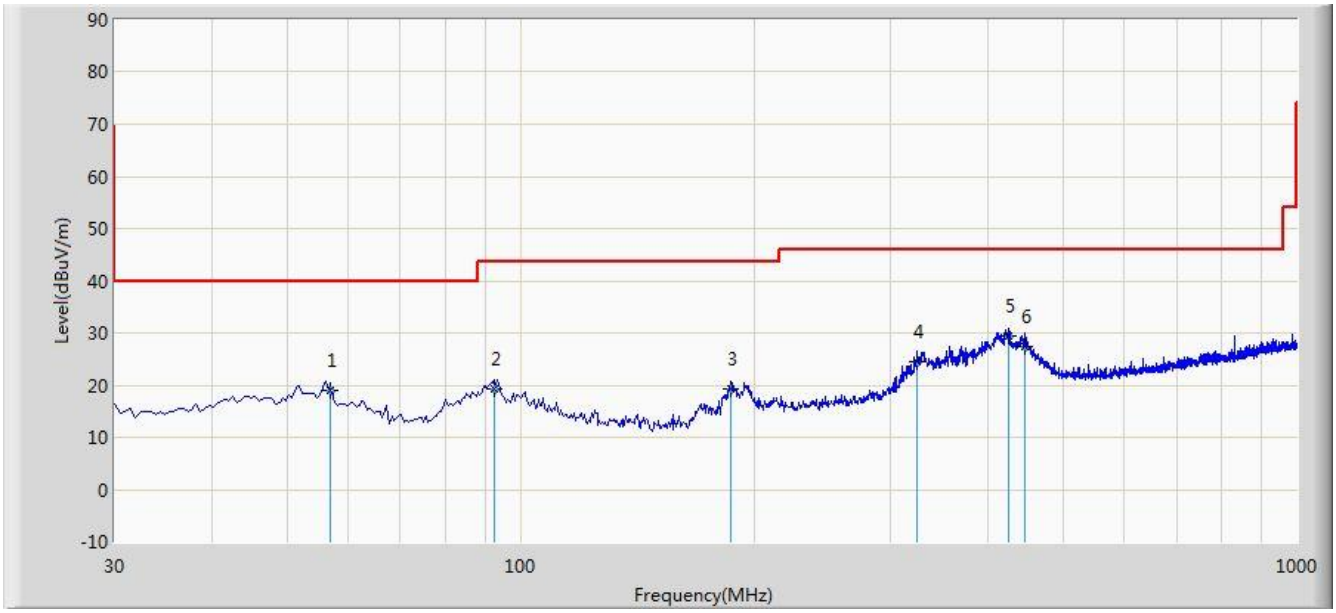
Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

**The Worst Case of Radiated Emission below 1GHz:**

| | |
|---|---|
| Site: AC1 | Time: 2019/07/13 - 13:32 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Kevin Ker |
| Probe: VULB 9168_20-2000MHz | Polarity: Horizontal |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| **Test Mode: There is the worst case within frequency range 30MHz~1GHz.** | |



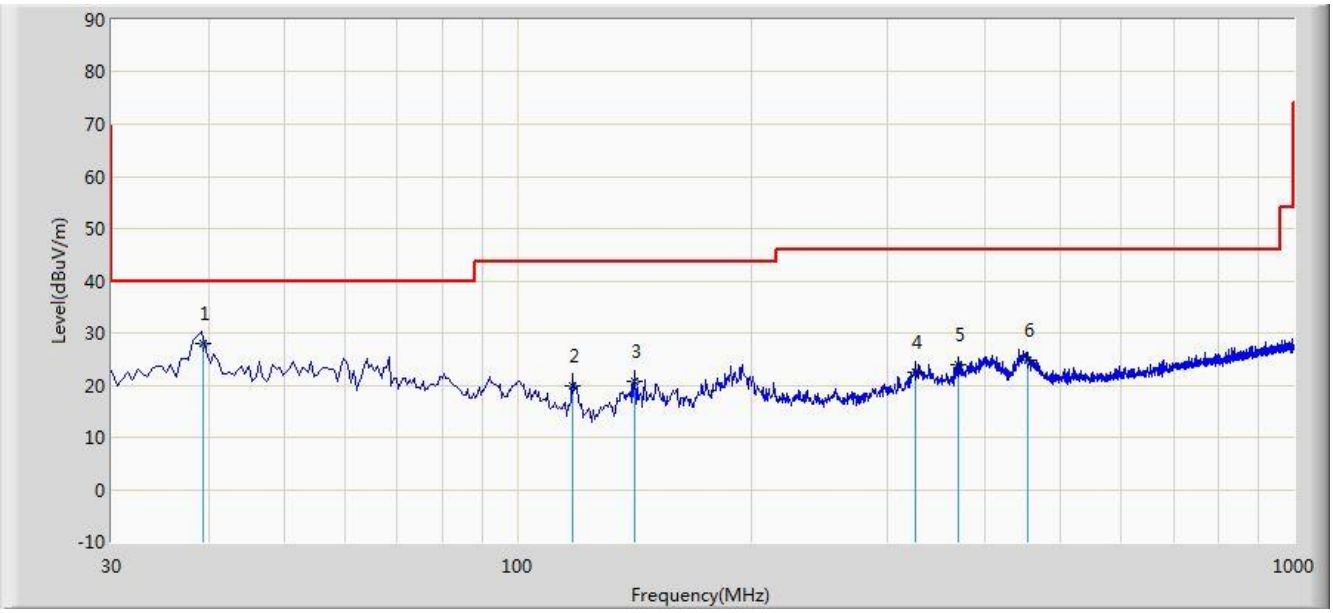

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 56.920 | 18.863 | -1.783 | -21.137 | 40.000 | 20.646 | QP |
| 2 | | | 92.598 | 19.238 | 1.686 | -24.262 | 43.500 | 17.551 | QP |
| 3 | | | 187.000 | 19.210 | 1.086 | -24.290 | 43.500 | 18.124 | QP |
| 4 | | | 324.650 | 24.520 | 2.169 | -21.480 | 46.000 | 22.352 | QP |
| 5 | | * | 424.540 | 29.560 | 5.340 | -16.440 | 46.000 | 24.219 | QP |
| 6 | | | 446.840 | 27.517 | 3.060 | -18.483 | 46.000 | 24.457 | QP |

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 40GHz), therefore no data appear in the report. Besides, there is a comparison data of both open-field test site and alternative test site semi-Anechoic chamber according to KDB 414788 D01 radiated test site v01r01, this comparison result was very similar.

| | |
|---|---|
| Site: AC1 | Time: 2019/07/13 - 13:36 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Kevin Ker |
| Probe: VULB 9168_20-2000MHz | Polarity: Vertical |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| **Test Mode: There is the worst case within frequency range 30MHz~1GHz.** | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 39.290 | 27.936 | 7.437 | -12.064 | 40.000 | 20.499 | QP |
| 2 | | * | 117.958 | 19.726 | 1.522 | -23.774 | 43.500 | 18.205 | QP |
| 3 | | | 141.365 | 20.773 | 5.137 | -22.727 | 43.500 | 15.636 | QP |
| 4 | | | 325.950 | 22.453 | 0.051 | -23.547 | 46.000 | 22.402 | QP |
| 5 | | | 369.850 | 23.812 | 0.232 | -22.188 | 46.000 | 23.581 | QP |
| 6 | | | 454.850 | 24.657 | 0.019 | -21.343 | 46.000 | 24.639 | QP |

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 40GHz), therefore no data appear in the report. Besides, there is a comparison data of both open-field test site and alternative test site semi-Anechoic chamber according to KDB 414788 D01 radiated test site v01r01, this comparison result was very similar.

## 7.9. Radiated Restricted Band Edge Measurement

### 7.9.1.Test Limit

**For 15.205 requirement:**

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

| Frequency (MHz) | Frequency (MHz) | Frequency (MHz) | Frequency (GHz) |
|---|---|---|---|
| 0.090 - 0.110 | 16.42 - 16.423 | 399.9 - 410 | 4.5 - 5.15 |
| [1] 0.495 - 0.505 | 16.69475 - 16.69525 | 608 - 614 | 5.35 - 5.46 |
| 2.1735 - 2.1905 | 16.80425 - 16.80475 | 960 - 1240 | 7.25 - 7.75 |
| 4.125 - 4.128 | 25.5 - 25.67 | 1300 - 1427 | 8.25 - 8.5 |
| 4.17725 - 4.17775 | 37.5 - 38.25 | 1435 - 1626.5 | 9.0 - 9.2 |
| 4.20725 - 4.20775 | 73 - 74.6 | 1645.5 - 1646.5 | 9.3 - 9.5 |
| 6.215 - 6.218 | 74.8 - 75.2 | 1660 - 1710 | 10.6 - 12.7 |
| 6.26775 - 6.26825 | 108 - 121.94 | 1718.8 - 1722.2 | 13.25 - 13.4 |
| 6.31175 - 6.31225 | 123 - 138 | 2200 - 2300 | 14.47 - 14.5 |
| 8.291 - 8.294 | 149.9 - 150.05 | 2310 - 2390 | 15.35 - 16.2 |
| 8.362 - 8.366 | 156.52475 - 156.525 | 2483.5 - 2500 | 17.7 - 21.4 |
| 8.37625 - 8.38675 | 156.7 - 156.9 | 2690 - 2900 | 22.01 - 23.12 |
| 8.41425 - 8.41475 | 162.0125 - 167.17 | 3260 - 3267 | 23.6 - 24.0 |
| 12.29 - 12.293 | 167.72 - 173.2 | 3332 - 3339 | 31.2 - 31.8 |
| 12.51975 - 12.52025 | 240 - 285 | 3345.8 - 3358 | 36.43 - 36.5 |
| 12.57675 - 12.57725 | 322 - 335.4 | 3600 - 4400 | ([2]) |
| 13.36 - 13.41 | -- | -- | -- |

**For 15.407(b) requirement:**

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 e.i.r.p. of −27 dBm/MHz.

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

Refer to KDB 789033 D02v02r01 G)2)c), as specified in § 15.407(b), emissions above 1000 MHz.

1) Sections 15.407(b)(1-3) specifies the unwanted emissions limit for the U-NII-1 and U-NII-2 bands. As specified, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of −27 dBm/MHz.

2) Section 15.407(b)(4) specifies the unwanted emissions limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). The emission limits are based on the use of a peak detector.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47CFR must not exceed the limits shown in Table per Section 15.209.

| FCC Part 15 Subpart C Paragraph 15.209 | | |
|---|---|---|
| Frequency [MHz] | Field Strength [uV/m] | Measured Distance [Meters] |
| 0.009 - 0.490 | 2400/F (kHz) | 300 |
| 0.490 - 1.705 | 24000/F (kHz) | 30 |
| 1.705 - 30 | 30 | 30 |
| 30 - 88 | 100 | 3 |
| 88 - 216 | 150 | 3 |
| 216 - 960 | 200 | 3 |
| Above 960 | 500 | 3 |

### 7.9.2.Test Procedure Used

ANSI C63.10 Section 6.3 (General Requirements)

ANSI C63.10 Section 6.6 (Standard test method above 1GHz)

### 7.9.3.Test Setting

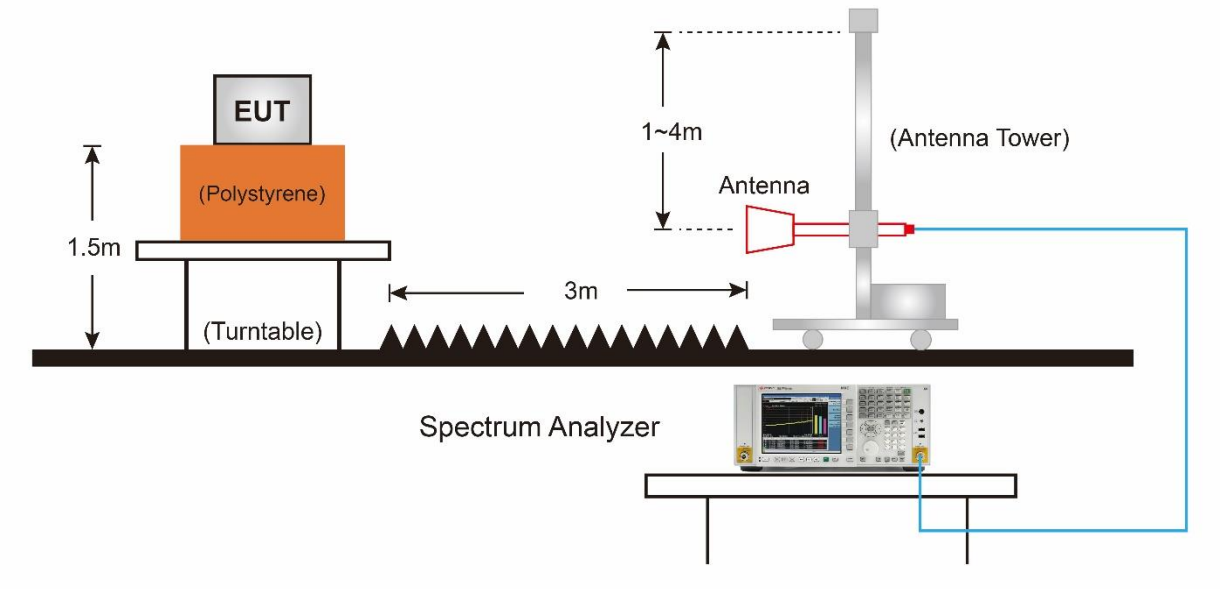
**Peak Measurements above 1GHz**

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

**Average Field Strength Measurements**

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW ≥ 1/T
4. De As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to “Voltage” regardless of the display mode
5. Detector = Peak
6. Sweep time = auto
7. Trace mode = max hold
8. Allow max hold to run for at least 50 times (1/duty cycle) traces

### 7.9.4.Test Setup

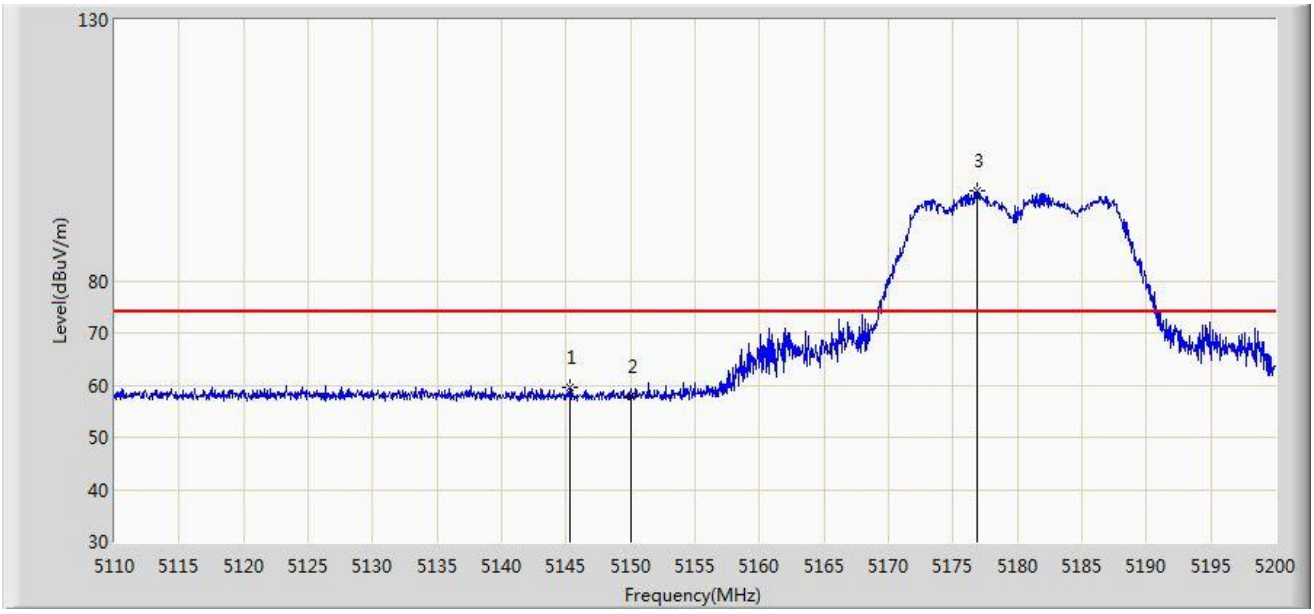



This item was performed with the WIFI antenna connected.

### 7.9.5.Test Result

**For APIN0504 - Omni Antenna (AP-ANT-20W):**

| | |
|---|---|
| Site: AC1 | Time: 2019/06/27 - 23:36 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Kevin Ker |
| Probe: BBHA 9120D_1-18GHz | Polarity: Horizontal |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11a at channel 5180MHz Ant 0 + 1 | |

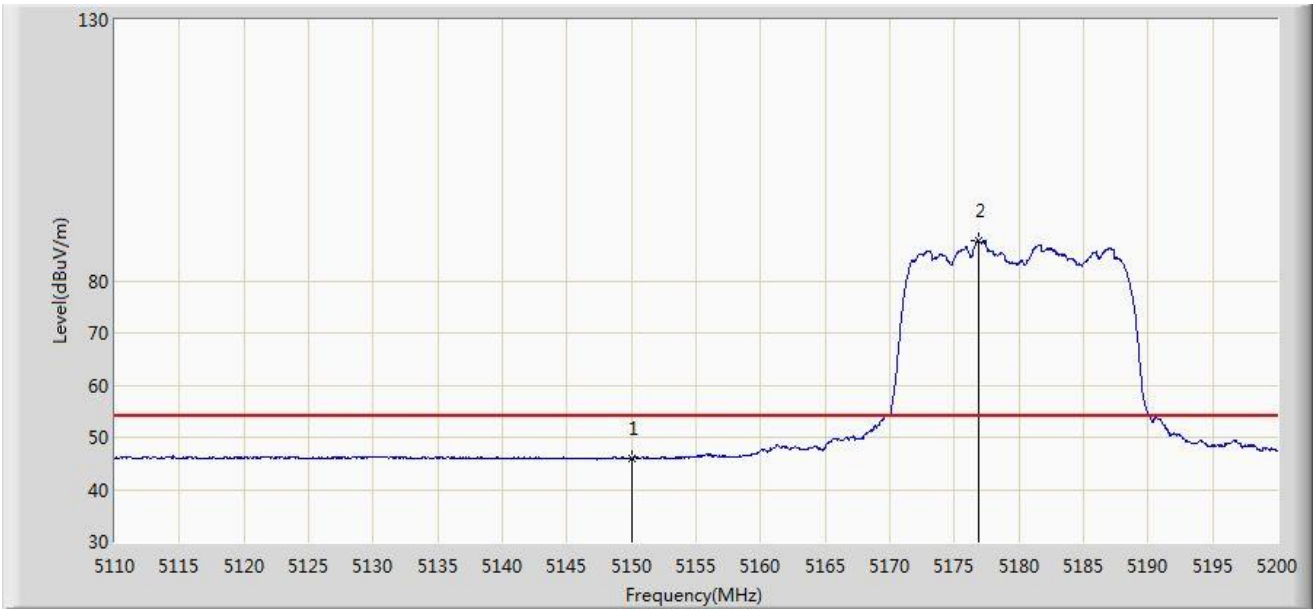



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5145.325 | 59.485 | 55.613 | -14.515 | 74.000 | 3.872 | PK |
| 2 | | | 5150.000 | 57.832 | 53.956 | -16.168 | 74.000 | 3.876 | PK |
| 3 | | * | 5176.825 | 97.359 | 93.460 | N/A | N/A | 3.899 | PK |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

| | |
|---|---|
| Site: AC1 | Time: 2019/06/27 - 23:37 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Kevin Ker |
| Probe: BBHA 9120D_1-18GHz | Polarity: Horizontal |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11a at channel 5180MHz Ant 0 + 1 | |

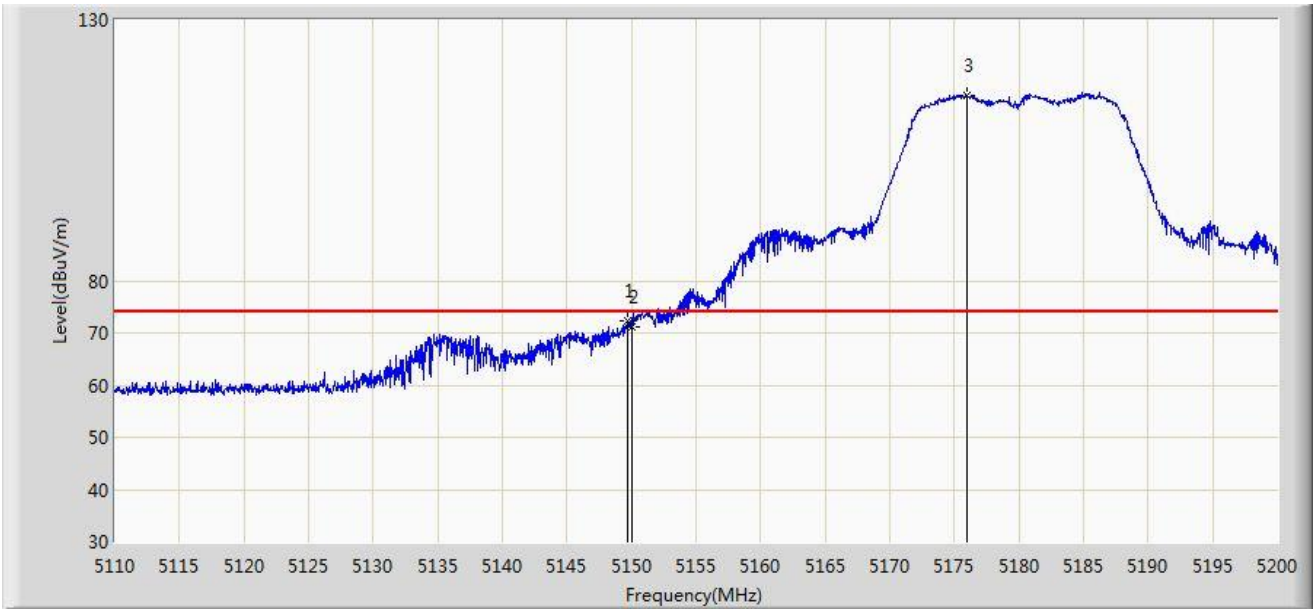



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5150.000 | 45.922 | 42.046 | -8.078 | 54.000 | 3.876 | AV |
| 2 | | * | 5176.870 | 87.610 | 83.711 | N/A | N/A | 3.899 | AV |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

| | |
|---|---|
| Site: AC1 | Time: 2019/06/27 - 23:33 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Kevin Ker |
| Probe: BBHA 9120D_1-18GHz | Polarity: Vertical |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11a at channel 5180MHz Ant 0 + 1 | |

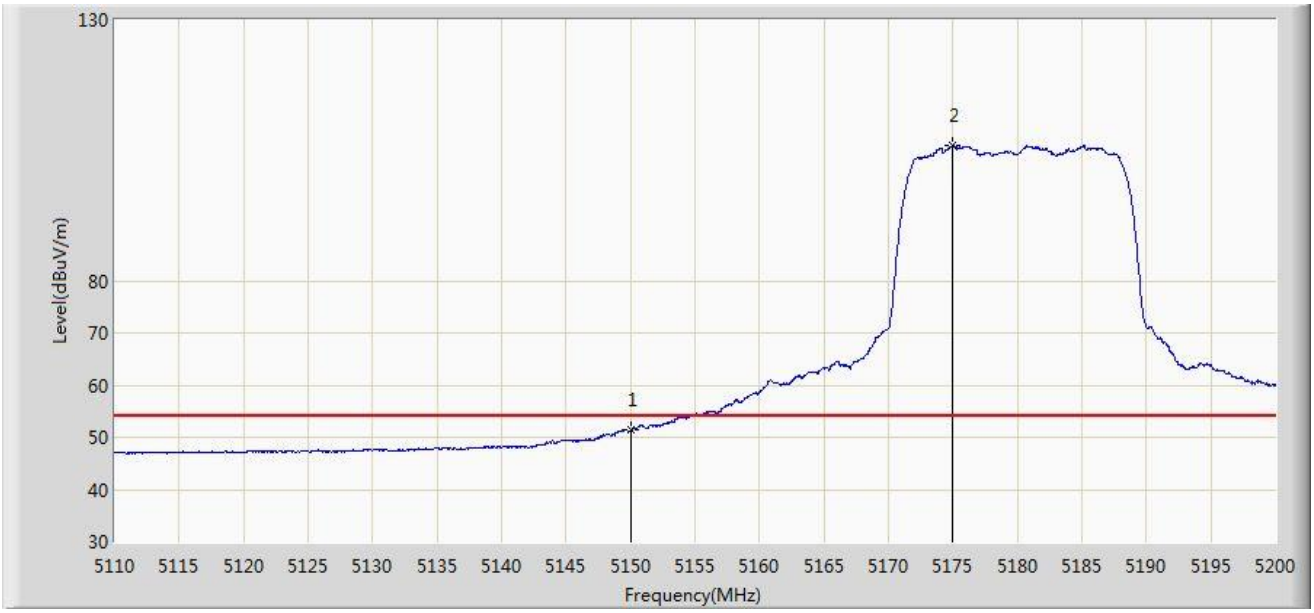



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5149.645 | 72.324 | 68.449 | -1.676 | 74.000 | 3.875 | PK |
| 2 | | | 5150.000 | 71.230 | 67.354 | -2.770 | 74.000 | 3.876 | PK |
| 3 | | * | 5176.015 | 115.389 | 111.491 | N/A | N/A | 3.898 | PK |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

| | |
|---|---|
| Site: AC1 | Time: 2019/06/27 - 23:35 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Kevin Ker |
| Probe: BBHA 9120D_1-18GHz | Polarity: Vertical |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11a at channel 5180MHz Ant 0 + 1 | |

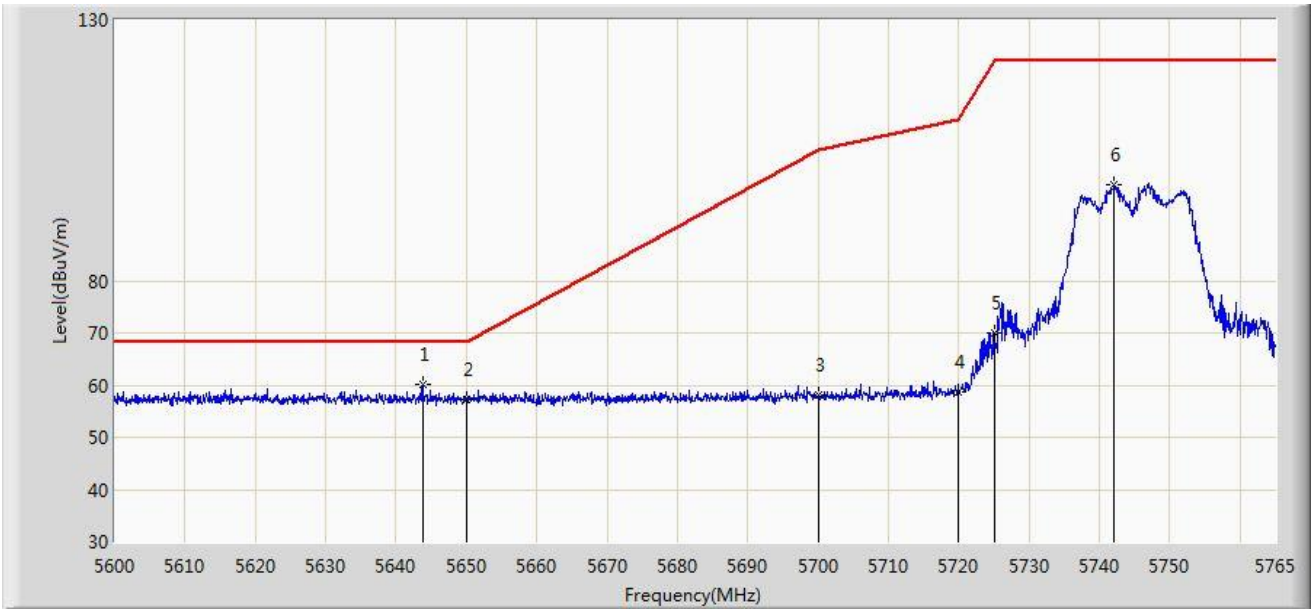



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5150.000 | 51.462 | 47.586 | -2.538 | 54.000 | 3.876 | AV |
| 2 | | * | 5174.980 | 106.009 | 102.112 | N/A | N/A | 3.897 | AV |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

| | |
|---|---|
| Site: AC1 | Time: 2019/06/27 - 23:52 |
| Limit: FCC_Part15.407_Band Edge(3m) | Engineer: Kevin Ker |
| Probe: BBHA 9120D_1-18GHz | Polarity: Horizontal |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11a at channel 5745MHz Ant 0 + 1 | |

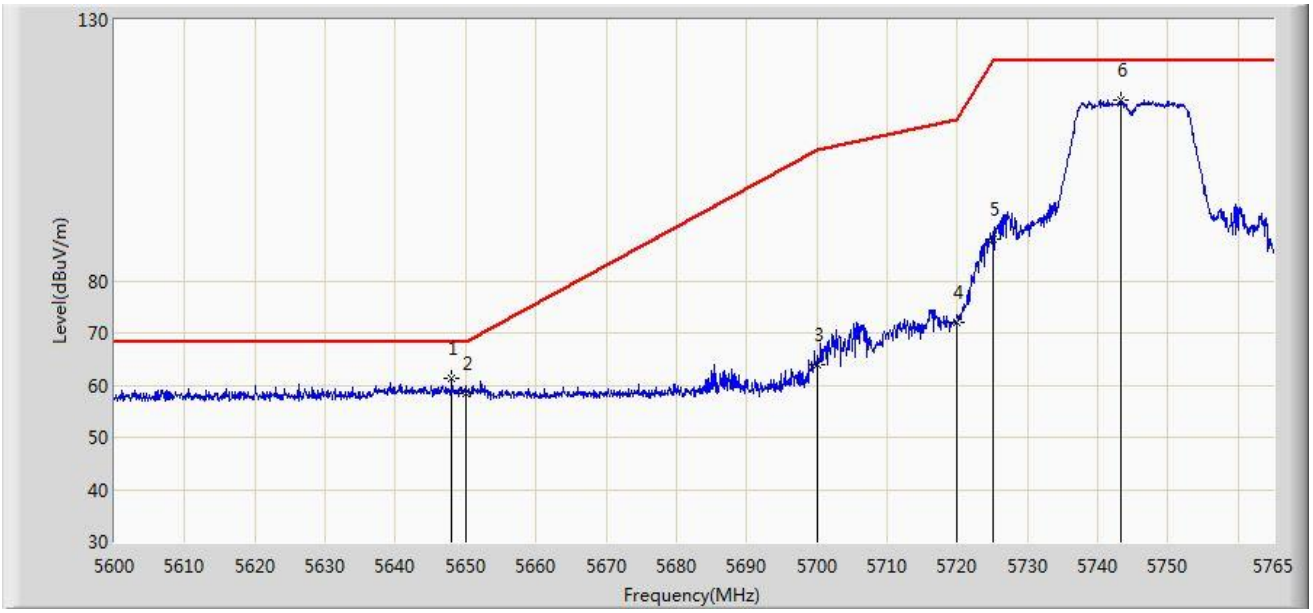



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 5643.808 | 60.180 | 55.457 | -8.020 | 68.200 | 4.722 | PK |
| 2 | | | 5650.000 | 57.173 | 52.427 | -11.027 | 68.200 | 4.746 | PK |
| 3 | | | 5700.000 | 58.070 | 53.132 | -47.130 | 105.200 | 4.938 | PK |
| 4 | | | 5720.000 | 58.735 | 53.720 | -52.065 | 110.800 | 5.015 | PK |
| 5 | | | 5725.000 | 69.919 | 64.885 | -52.281 | 122.200 | 5.034 | PK |
| 6 | | | 5742.065 | 98.539 | 93.440 | N/A | N/A | 5.099 | PK |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

| | |
|---|---|
| Site: AC1 | Time: 2019/06/27 - 23:51 |
| Limit: FCC_Part15.407_Band Edge(3m) | Engineer: Kevin Ker |
| Probe: BBHA 9120D_1-18GHz | Polarity: Vertical |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11a at channel 5745MHz Ant 0 + 1 | |

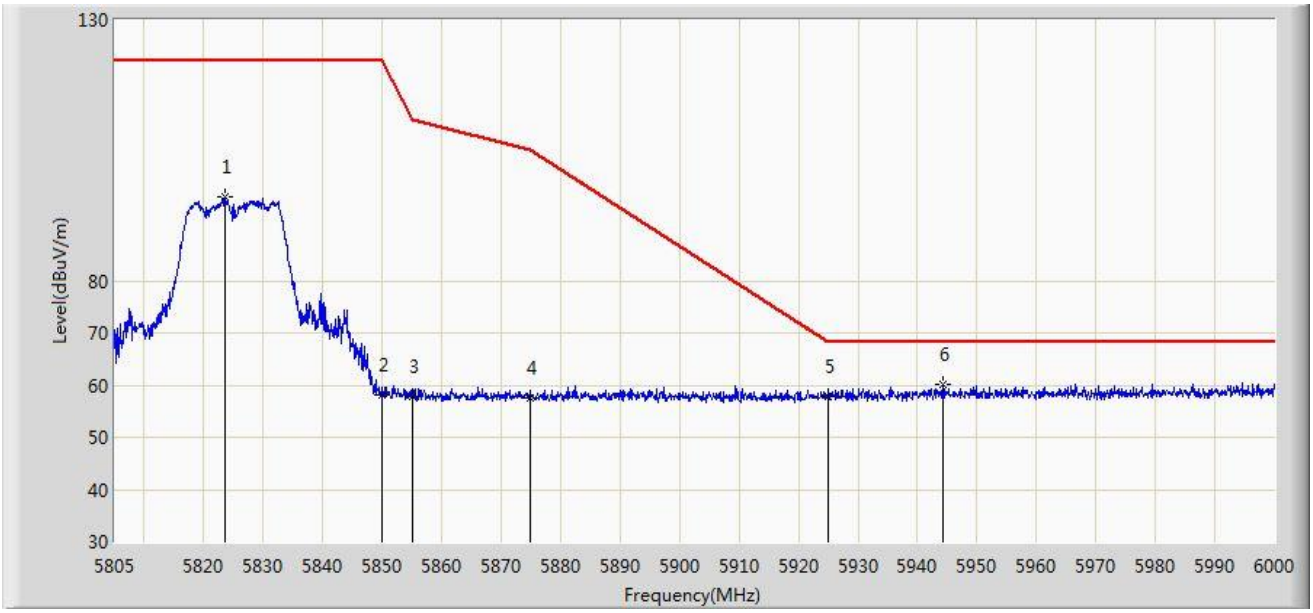



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 5648.015 | 61.344 | 56.605 | -6.856 | 68.200 | 4.739 | PK |
| 2 | | | 5650.000 | 58.510 | 53.764 | -9.690 | 68.200 | 4.746 | PK |
| 3 | | | 5700.000 | 63.797 | 58.859 | -41.403 | 105.200 | 4.938 | PK |
| 4 | | | 5720.000 | 72.129 | 67.114 | -38.671 | 110.800 | 5.015 | PK |
| 5 | | | 5725.000 | 88.022 | 82.988 | -34.178 | 122.200 | 5.034 | PK |
| 6 | | | 5743.303 | 114.704 | 109.600 | N/A | N/A | 5.104 | PK |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

| | |
|---|---|
| Site: AC1 | Time: 2019/06/27 - 23:55 |
| Limit: FCC_Part15.407_Band Edge(3m) | Engineer: Kevin Ker |
| Probe: BBHA 9120D_1-18GHz | Polarity: Horizontal |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11a at channel 5825MHz Ant 0 + 1 | |

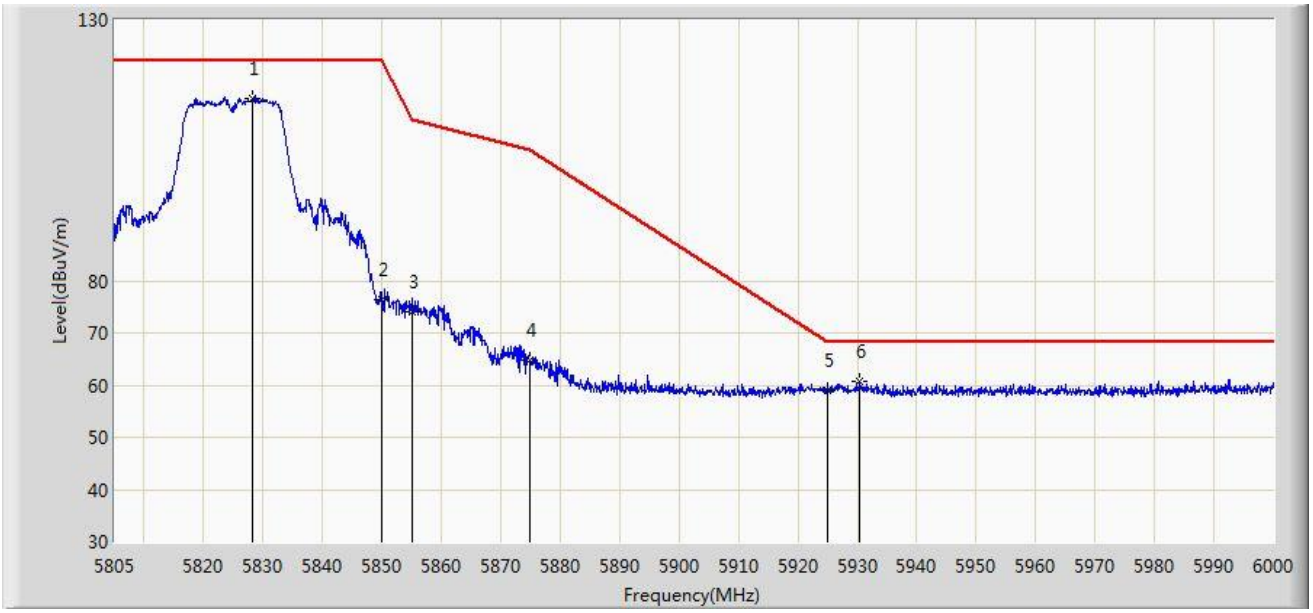



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5823.525 | 96.064 | 90.651 | N/A | N/A | 5.412 | PK |
| 2 | | | 5850.000 | 57.997 | 52.483 | -64.203 | 122.200 | 5.514 | PK |
| 3 | | | 5855.000 | 57.951 | 52.418 | -52.849 | 110.800 | 5.533 | PK |
| 4 | | | 5875.000 | 57.653 | 52.043 | -47.547 | 105.200 | 5.610 | PK |
| 5 | | | 5925.000 | 57.779 | 51.977 | -10.421 | 68.200 | 5.802 | PK |
| 6 | | * | 5944.328 | 60.138 | 54.261 | -8.062 | 68.200 | 5.877 | PK |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

| | |
|---|---|
| Site: AC1 | Time: 2019/06/27 - 23:53 |
| Limit: FCC_Part15.407_Band Edge(3m) | Engineer: Kevin Ker |
| Probe: BBHA 9120D_1-18GHz | Polarity: Vertical |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11a at channel 5825MHz Ant 0 + 1 | |

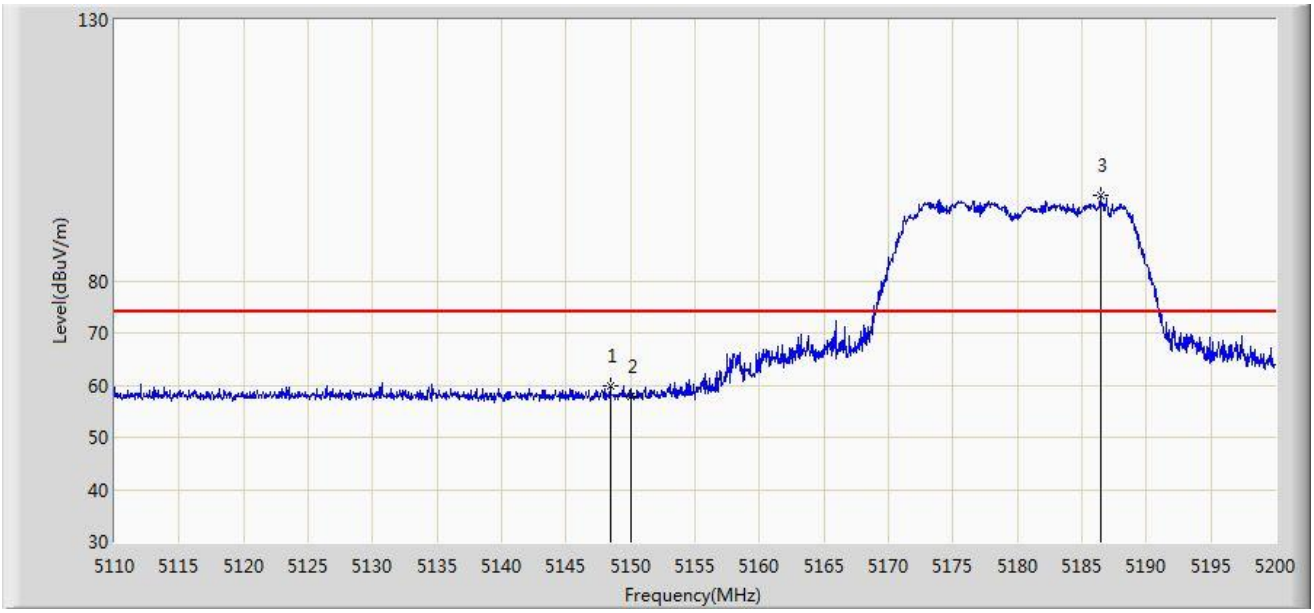



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 5828.107 | 115.050 | 109.620 | N/A | N/A | 5.430 | PK |
| 2 | | | 5850.000 | 76.366 | 70.852 | -45.834 | 122.200 | 5.514 | PK |
| 3 | | | 5855.000 | 74.035 | 68.502 | -36.765 | 110.800 | 5.533 | PK |
| 4 | | | 5875.000 | 64.724 | 59.114 | -40.476 | 105.200 | 5.610 | PK |
| 5 | | | 5925.000 | 58.935 | 53.133 | -9.265 | 68.200 | 5.802 | PK |
| 6 | | | 5930.385 | 60.613 | 54.790 | -7.587 | 68.200 | 5.822 | PK |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

| | |
|---|---|
| Site: AC1 | Time: 2019/06/28 - 00:00 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Kevin Ker |
| Probe: BBHA 9120D_1-18GHz | Polarity: Horizontal |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11ac-VHT20 at channel 5180MHz Ant 0 + 1 | |

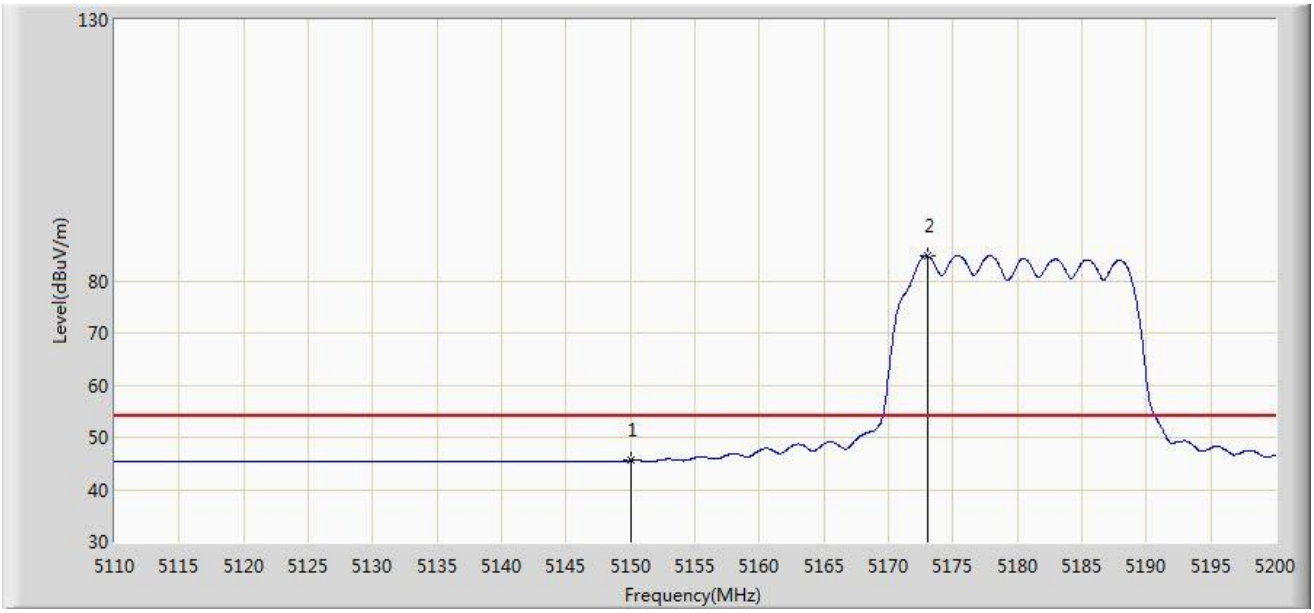



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5148.430 | 59.740 | 55.866 | -14.260 | 74.000 | 3.874 | PK |
| 2 | | | 5150.000 | 57.966 | 54.090 | -16.034 | 74.000 | 3.876 | PK |
| 3 | | * | 5186.410 | 96.256 | 92.349 | N/A | N/A | 3.907 | PK |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

| | |
|---|---|
| Site: AC1 | Time: 2019/06/28 - 00:02 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Kevin Ker |
| Probe: BBHA 9120D_1-18GHz | Polarity: Horizontal |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11ac-VHT20 at channel 5180MHz Ant 0 + 1 | |

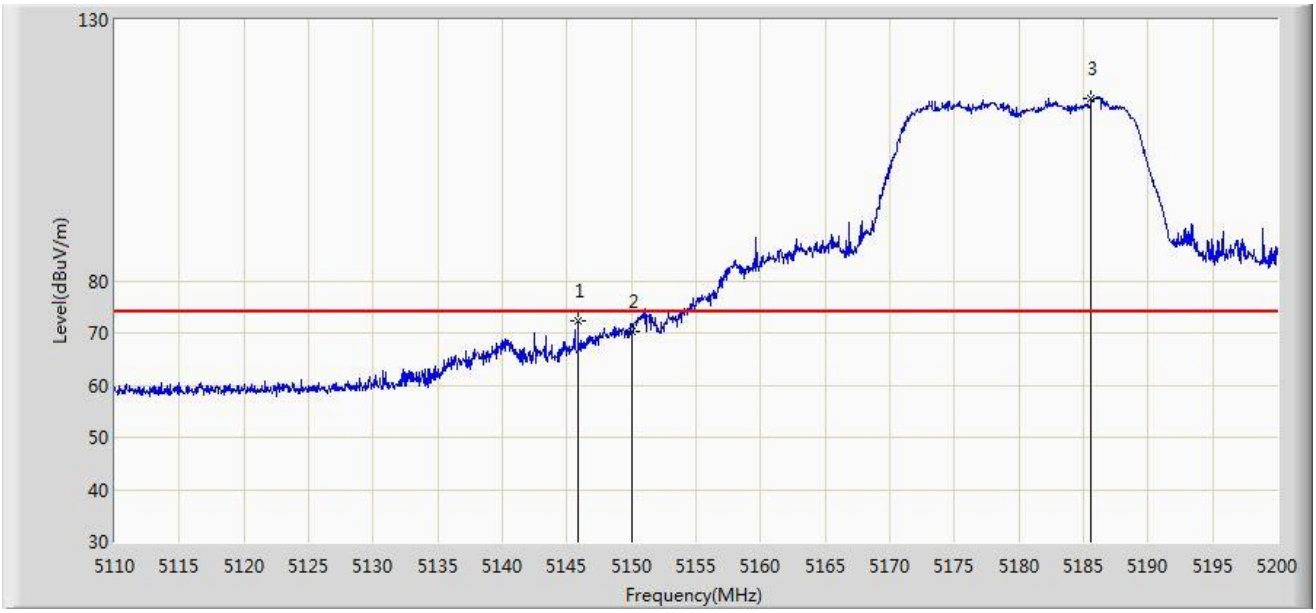



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5150.000 | 45.549 | 41.673 | -8.451 | 54.000 | 3.876 | AV |
| 2 | | * | 5173.090 | 84.676 | 80.781 | N/A | N/A | 3.895 | AV |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

| | |
|---|---|
| Site: AC1 | Time: 2019/06/27 - 23:56 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Kevin Ker |
| Probe: BBHA 9120D_1-18GHz | Polarity: Vertical |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11ac-VHT20 at channel 5180MHz Ant 0 + 1 | |

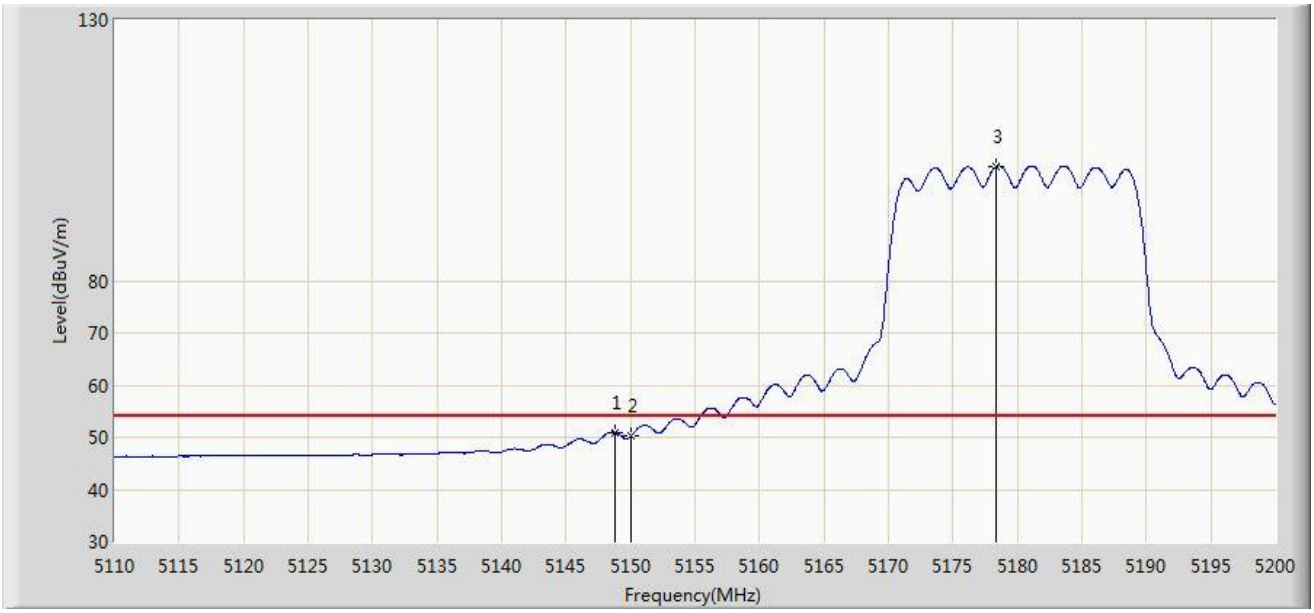



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5145.865 | 72.285 | 68.413 | -1.715 | 74.000 | 3.872 | PK |
| 2 | | | 5150.000 | 70.427 | 66.551 | -3.573 | 74.000 | 3.876 | PK |
| 3 | | * | 5185.600 | 114.982 | 111.076 | N/A | N/A | 3.906 | PK |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

| | |
|---|---|
| Site: AC1 | Time: 2019/06/27 - 23:59 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Kevin Ker |
| Probe: BBHA 9120D_1-18GHz | Polarity: Vertical |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11ac-VHT20 at channel 5180MHz Ant 0 + 1 | |

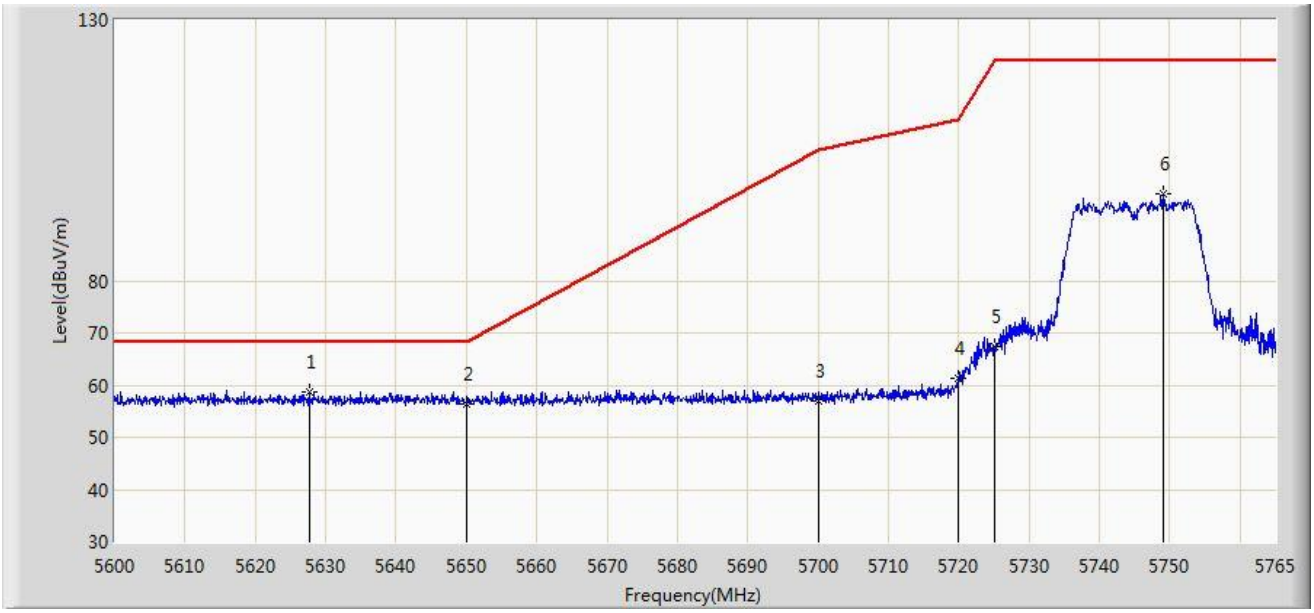



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5148.745 | 50.968 | 47.093 | -3.032 | 54.000 | 3.875 | AV |
| 2 | | | 5150.000 | 50.208 | 46.332 | -3.792 | 54.000 | 3.876 | AV |
| 3 | | * | 5178.400 | 101.977 | 98.077 | N/A | N/A | 3.900 | AV |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

| | |
|---|---|
| Site: AC1 | Time: 2019/06/28 - 00:23 |
| Limit: FCC_Part15.407_Band Edge(3m) | Engineer: Kevin Ker |
| Probe: BBHA 9120D_1-18GHz | Polarity: Horizontal |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11ac-VHT20 at channel 5745MHz Ant 0 + 1 | |

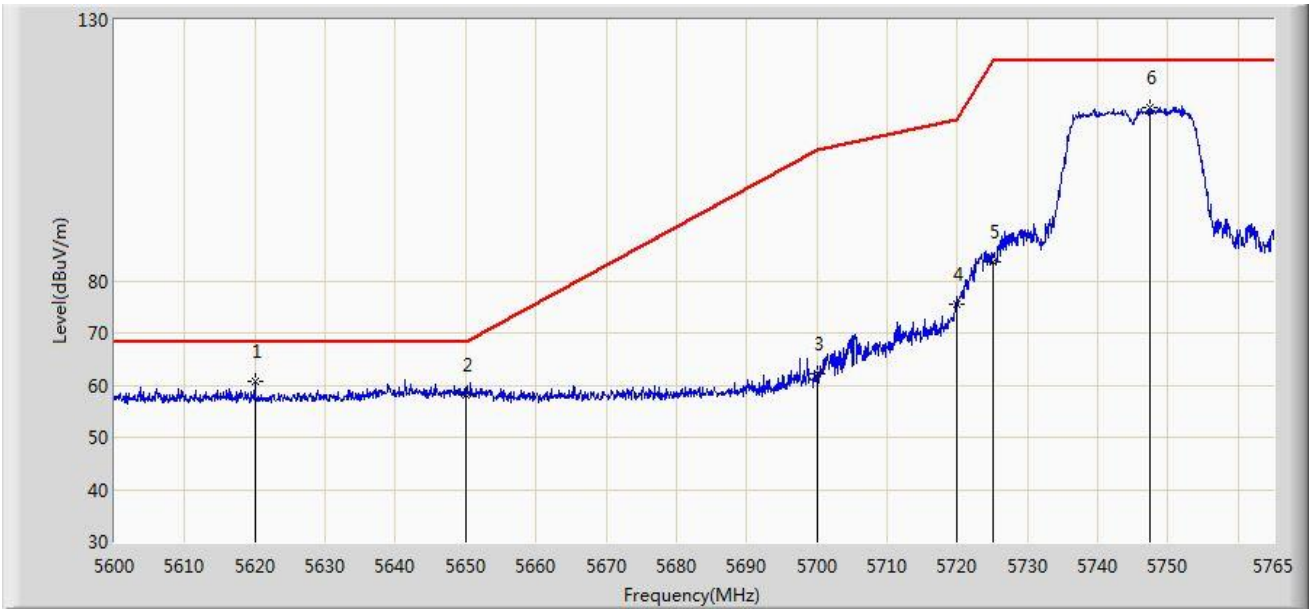



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 5627.638 | 58.731 | 54.071 | -9.469 | 68.200 | 4.660 | PK |
| 2 | | | 5650.000 | 56.477 | 51.731 | -11.723 | 68.200 | 4.746 | PK |
| 3 | | | 5700.000 | 57.037 | 52.099 | -48.163 | 105.200 | 4.938 | PK |
| 4 | | | 5720.000 | 61.355 | 56.340 | -49.445 | 110.800 | 5.015 | PK |
| 5 | | | 5725.000 | 67.360 | 62.326 | -54.840 | 122.200 | 5.034 | PK |
| 6 | | | 5749.160 | 96.535 | 91.409 | N/A | N/A | 5.126 | PK |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

| | |
|---|---|
| Site: AC1 | Time: 2019/06/28 - 00:21 |
| Limit: FCC_Part15.407_Band Edge(3m) | Engineer: Kevin Ker |
| Probe: BBHA 9120D_1-18GHz | Polarity: Vertical |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11ac-VHT20 at channel 5745MHz Ant 0 + 1 | |

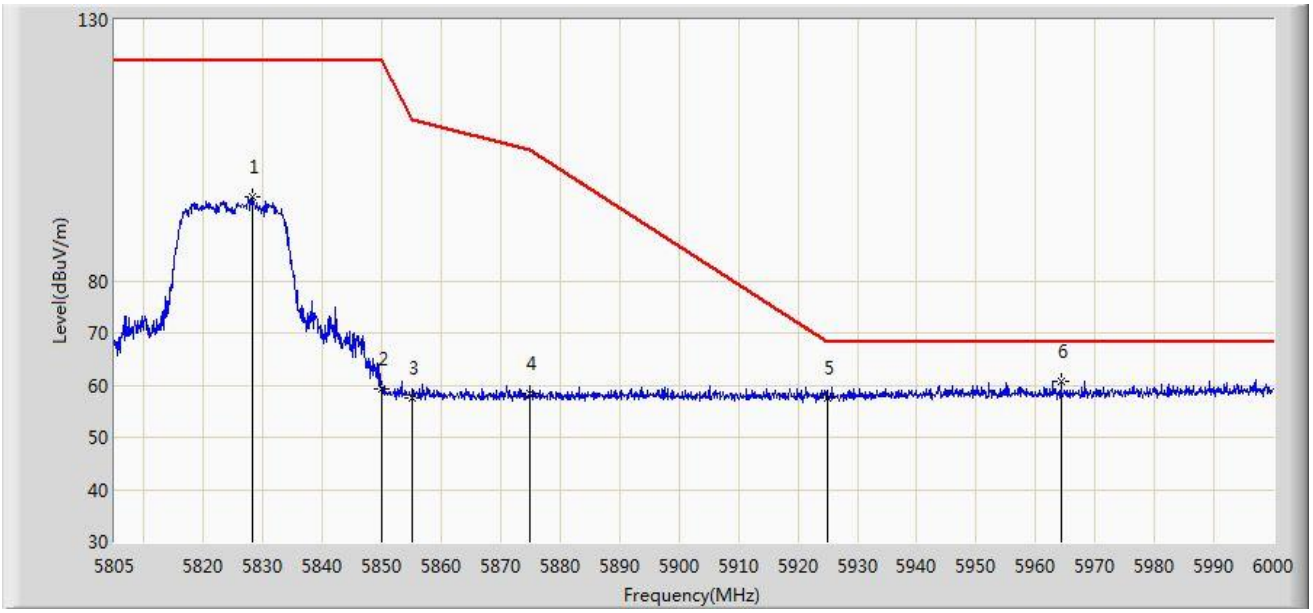



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 5620.047 | 60.649 | 56.018 | -7.551 | 68.200 | 4.631 | PK |
| 2 | | | 5650.000 | 58.012 | 53.266 | -10.188 | 68.200 | 4.746 | PK |
| 3 | | | 5700.000 | 62.097 | 57.159 | -43.103 | 105.200 | 4.938 | PK |
| 4 | | | 5720.000 | 75.455 | 70.440 | -35.345 | 110.800 | 5.015 | PK |
| 5 | | | 5725.000 | 83.712 | 78.678 | -38.488 | 122.200 | 5.034 | PK |
| 6 | | | 5747.510 | 113.086 | 107.966 | N/A | N/A | 5.120 | PK |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

| | |
|---|---|
| Site: AC1 | Time: 2019/06/28 - 00:27 |
| Limit: FCC_Part15.407_Band Edge(3m) | Engineer: Kevin Ker |
| Probe: BBHA 9120D_1-18GHz | Polarity: Horizontal |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11ac-VHT20 at channel 5825MHz Ant 0 + 1 | |

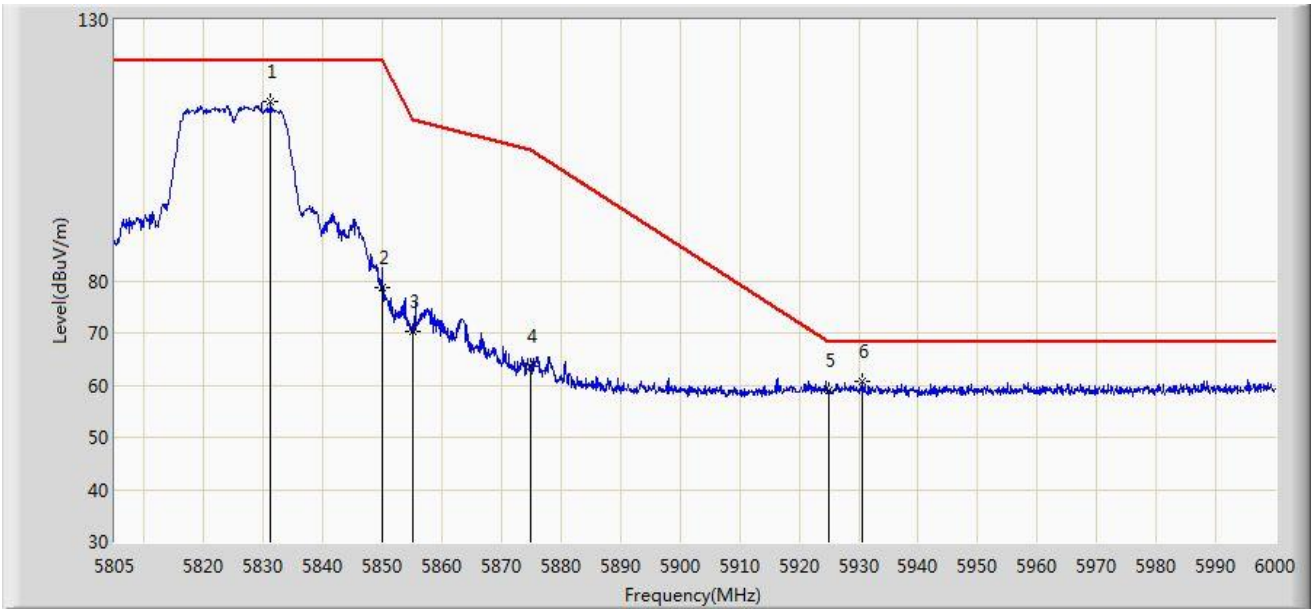



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5828.107 | 96.133 | 90.703 | N/A | N/A | 5.430 | PK |
| 2 | | | 5850.000 | 59.324 | 53.810 | -62.876 | 122.200 | 5.514 | PK |
| 3 | | | 5855.000 | 57.634 | 52.101 | -53.166 | 110.800 | 5.533 | PK |
| 4 | | | 5875.000 | 58.300 | 52.690 | -46.900 | 105.200 | 5.610 | PK |
| 5 | | | 5925.000 | 57.524 | 51.722 | -10.676 | 68.200 | 5.802 | PK |
| 6 | | * | 5964.315 | 60.702 | 54.749 | -7.498 | 68.200 | 5.953 | PK |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

| | |
|---|---|
| Site: AC1 | Time: 2019/06/28 - 00:24 |
| Limit: FCC_Part15.407_Band Edge(3m) | Engineer: Kevin Ker |
| Probe: BBHA 9120D_1-18GHz | Polarity: Vertical |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11ac-VHT20 at channel 5825MHz Ant 0 + 1 | |

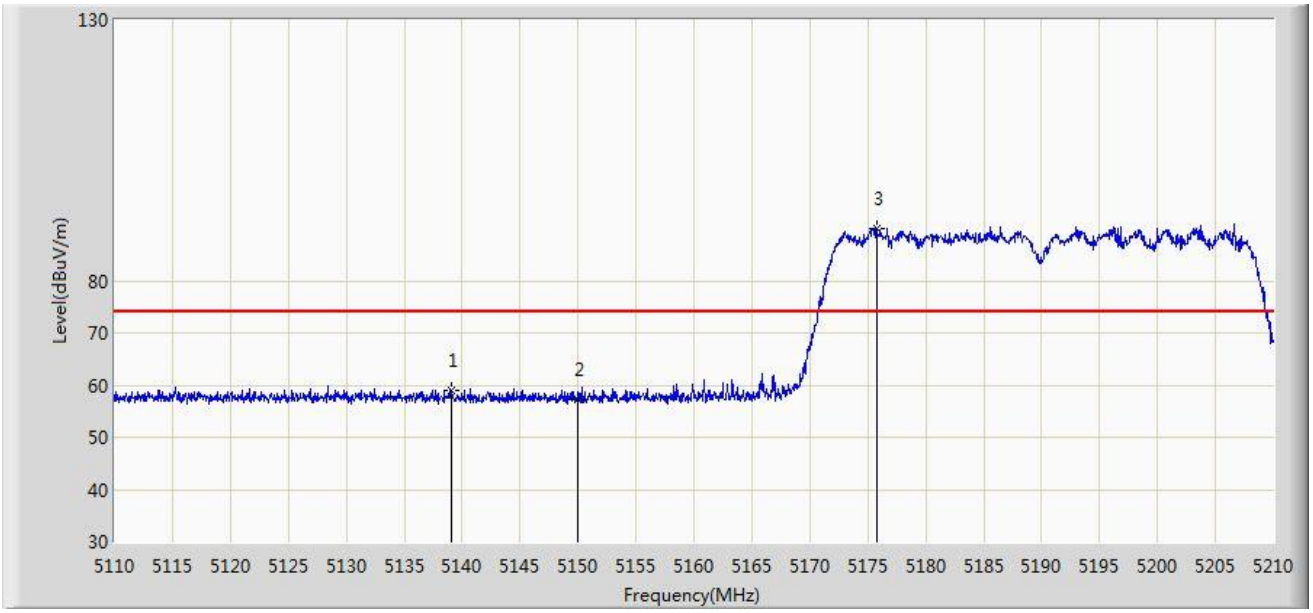



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5831.228 | 114.226 | 108.784 | N/A | N/A | 5.442 | PK |
| 2 | | | 5850.000 | 78.685 | 73.171 | -43.515 | 122.200 | 5.514 | PK |
| 3 | | | 5855.000 | 70.360 | 64.827 | -40.440 | 110.800 | 5.533 | PK |
| 4 | | | 5875.000 | 63.713 | 58.103 | -41.487 | 105.200 | 5.610 | PK |
| 5 | | | 5925.000 | 58.892 | 53.090 | -9.308 | 68.200 | 5.802 | PK |
| 6 | | * | 5930.482 | 60.598 | 54.775 | -7.602 | 68.200 | 5.824 | PK |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

| | |
|---|---|
| Site: AC1 | Time: 2019/06/28 - 00:37 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Kevin Ker |
| Probe: BBHA 9120D_1-18GHz | Polarity: Horizontal |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11ac-VHT40 at channel 5190MHz Ant 0 + 1 | |

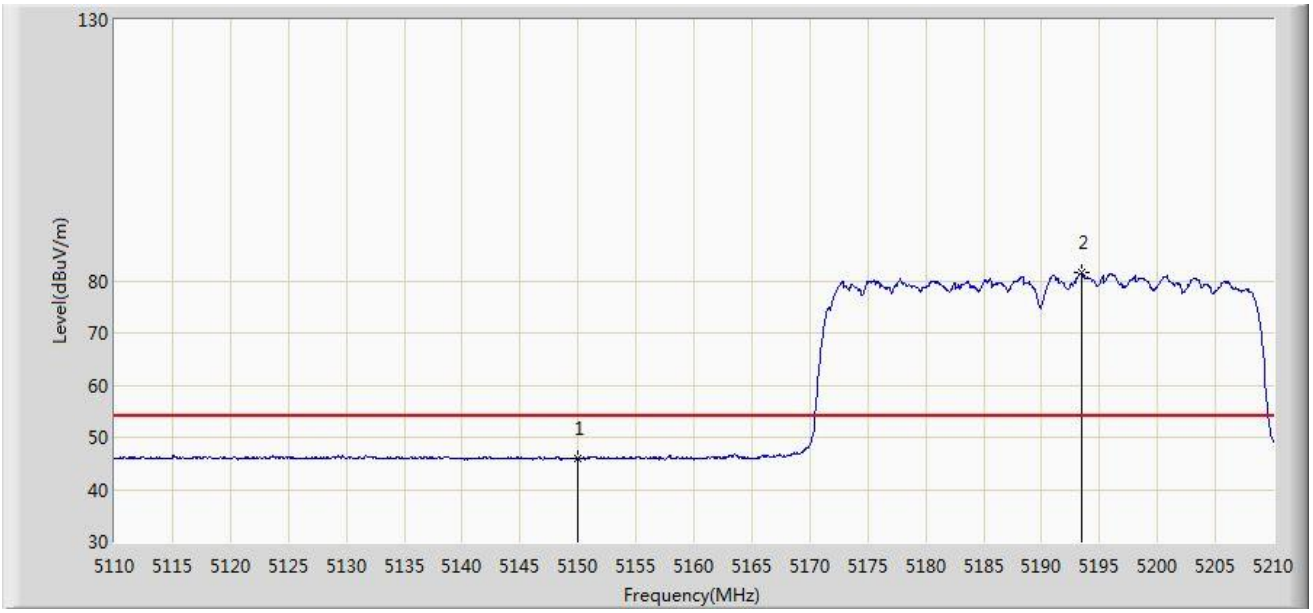



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5139.050 | 59.049 | 55.182 | -14.951 | 74.000 | 3.867 | PK |
| 2 | | | 5150.000 | 57.289 | 53.413 | -16.711 | 74.000 | 3.876 | PK |
| 3 | | * | 5175.800 | 90.095 | 86.197 | N/A | N/A | 3.898 | PK |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

| | |
|---|---|
| Site: AC1 | Time: 2019/06/28 - 00:38 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Kevin Ker |
| Probe: BBHA 9120D_1-18GHz | Polarity: Horizontal |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11ac-VHT40 at channel 5190MHz Ant 0 + 1 | |

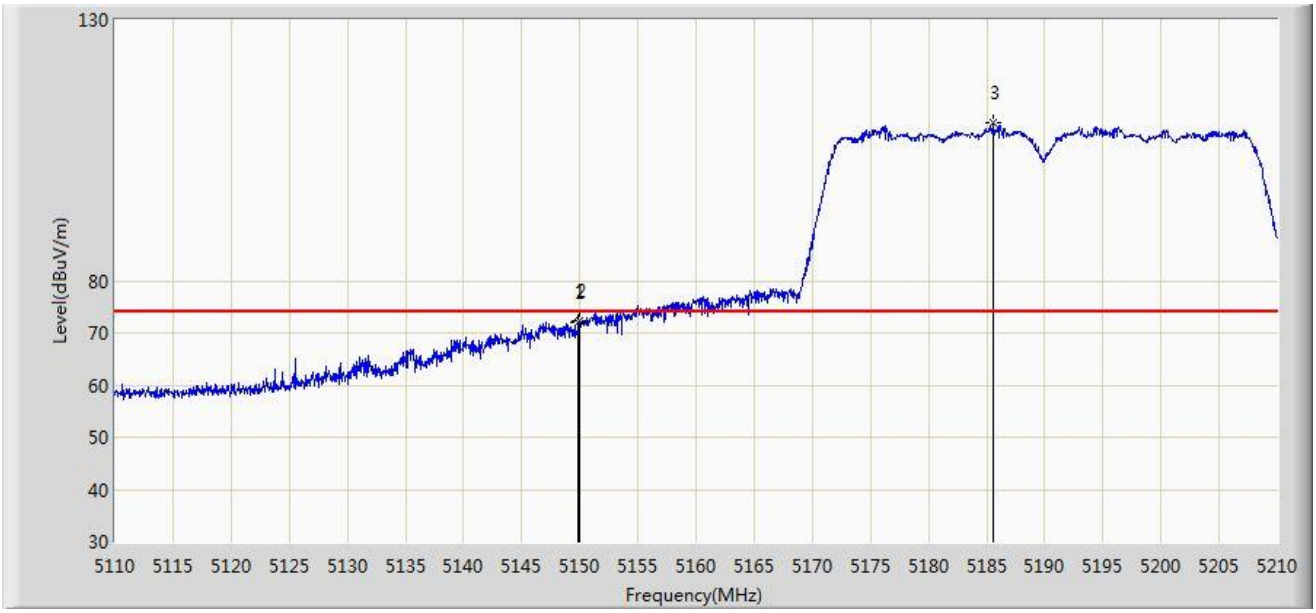



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5150.000 | 45.921 | 42.045 | -8.079 | 54.000 | 3.876 | AV |
| 2 | | * | 5193.400 | 81.460 | 77.547 | N/A | N/A | 3.913 | AV |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

| | |
|---|---|
| Site: AC1 | Time: 2019/06/28 - 00:34 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Kevin Ker |
| Probe: BBHA 9120D_1-18GHz | Polarity: Vertical |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11ac-VHT40 at channel 5190MHz Ant 0 + 1 | |

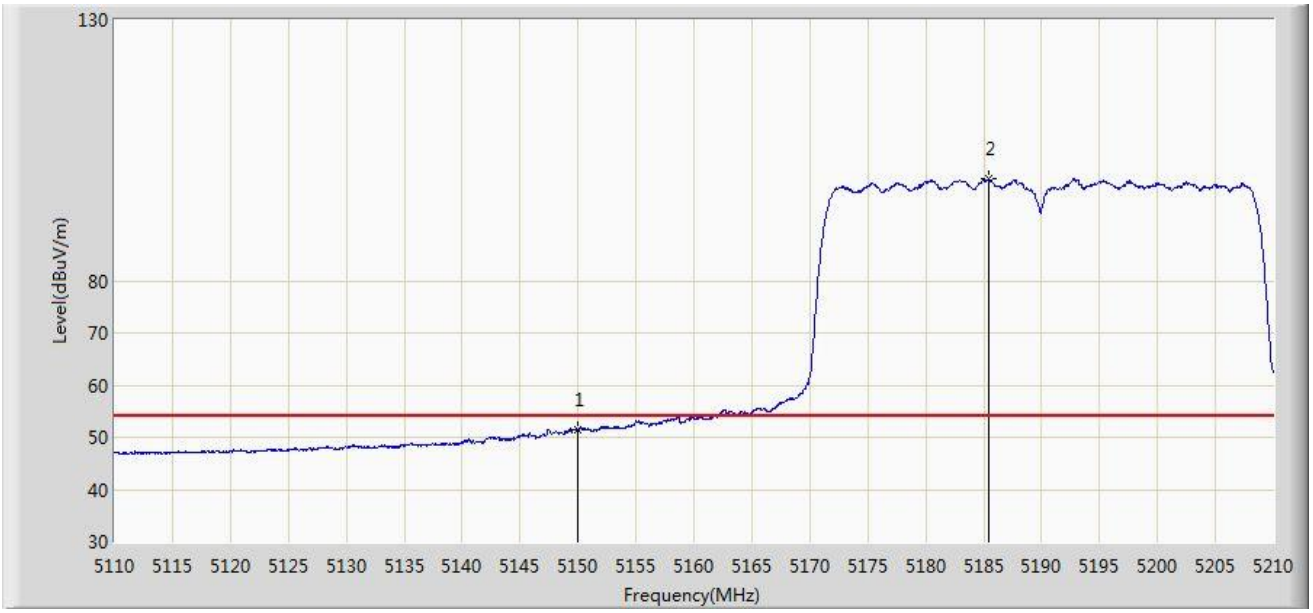



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5149.900 | 71.971 | 68.095 | -2.029 | 74.000 | 3.876 | PK |
| 2 | | | 5150.000 | 72.183 | 68.307 | -1.817 | 74.000 | 3.876 | PK |
| 3 | | * | 5185.550 | 110.176 | 106.270 | N/A | N/A | 3.906 | PK |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

| | |
|---|---|
| Site: AC1 | Time: 2019/06/28 - 00:37 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Kevin Ker |
| Probe: BBHA 9120D_1-18GHz | Polarity: Vertical |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11ac-VHT40 at channel 5190MHz Ant 0 + 1 | |

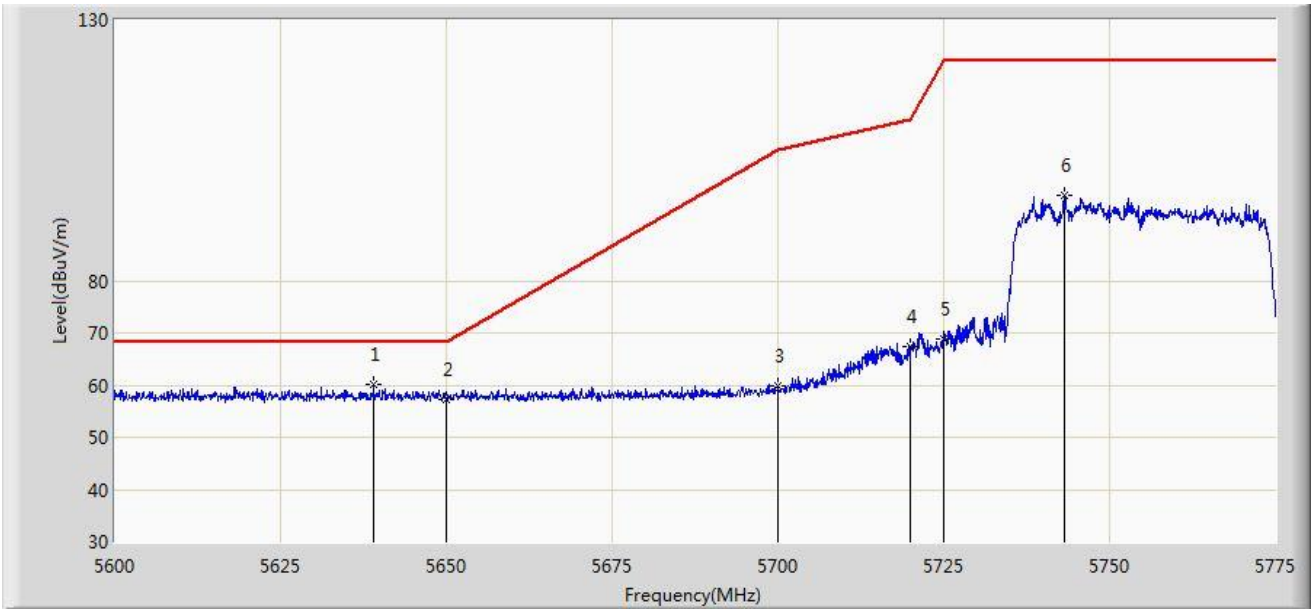



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5150.000 | 51.504 | 47.628 | -2.496 | 54.000 | 3.876 | AV |
| 2 | | * | 5185.500 | 99.454 | 95.548 | N/A | N/A | 3.906 | AV |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

| | |
|---|---|
| Site: AC1 | Time: 2019/06/28 - 02:27 |
| Limit: FCC_Part15.407_Band Edge(3m) | Engineer: Kevin Ker |
| Probe: BBHA 9120D_1-18GHz | Polarity: Horizontal |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11ac-VHT40 at channel 5755MHz Ant 0 + 1 Ant 0 + 1 | |

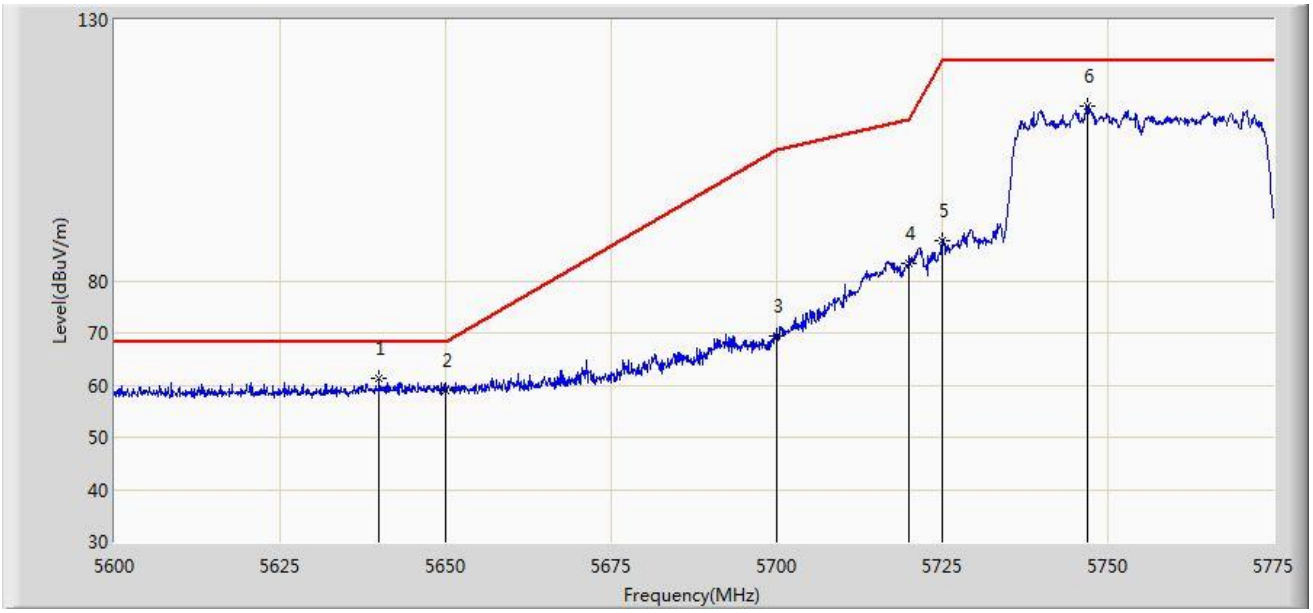



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 5639.025 | 60.263 | 55.559 | -7.937 | 68.200 | 4.704 | PK |
| 2 | | | 5650.000 | 57.174 | 52.428 | -11.026 | 68.200 | 4.746 | PK |
| 3 | | | 5700.000 | 59.778 | 54.840 | -45.422 | 105.200 | 4.938 | PK |
| 4 | | | 5720.000 | 67.257 | 62.242 | -43.543 | 110.800 | 5.015 | PK |
| 5 | | | 5725.000 | 68.715 | 63.681 | -53.485 | 122.200 | 5.034 | PK |
| 6 | | | 5743.150 | 96.340 | 91.237 | N/A | N/A | 5.103 | PK |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

| | |
|---|---|
| Site: AC1 | Time: 2019/06/28 - 02:24 |
| Limit: FCC_Part15.407_Band Edge(3m) | Engineer: Kevin Ker |
| Probe: BBHA 9120D_1-18GHz | Polarity: Vertical |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11ac-VHT40 at channel 5755MHz Ant 0 + 1 | |

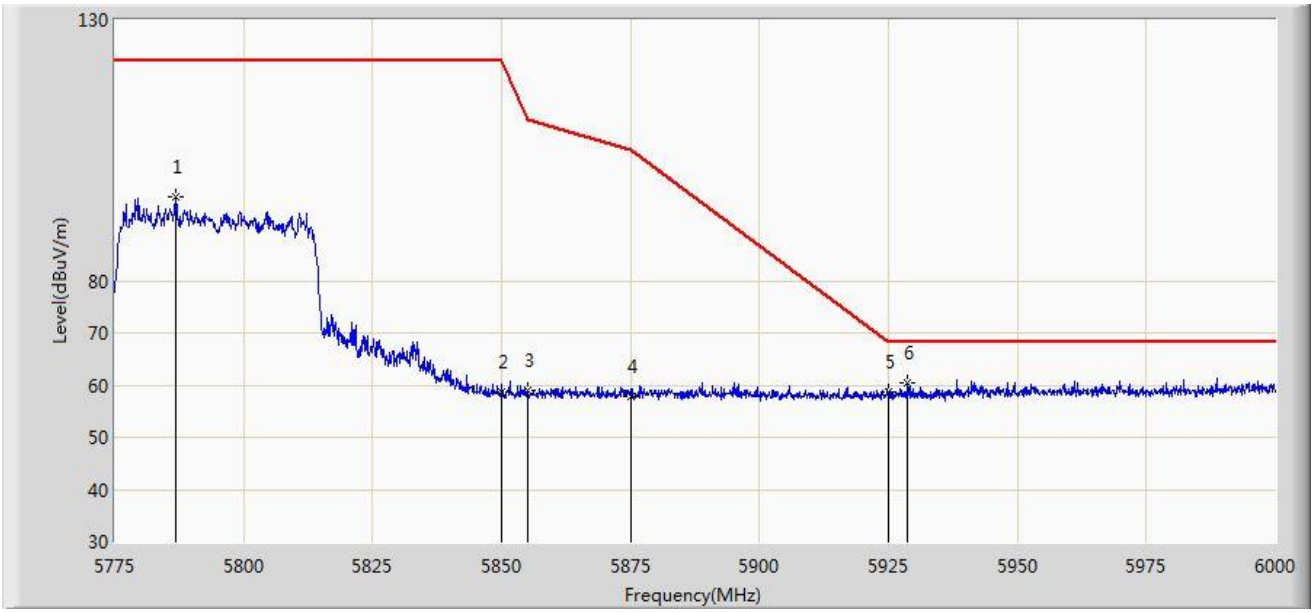



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 5639.987 | 61.177 | 56.469 | -7.023 | 68.200 | 4.708 | PK |
| 2 | | | 5650.000 | 58.895 | 54.149 | -9.305 | 68.200 | 4.746 | PK |
| 3 | | | 5700.000 | 69.456 | 64.518 | -35.744 | 105.200 | 4.938 | PK |
| 4 | | | 5720.000 | 83.260 | 78.245 | -27.540 | 110.800 | 5.015 | PK |
| 5 | | | 5725.000 | 87.626 | 82.592 | -34.574 | 122.200 | 5.034 | PK |
| 6 | | | 5746.913 | 113.442 | 108.324 | N/A | N/A | 5.118 | PK |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

| | |
|---|---|
| Site: AC1 | Time: 2019/06/28 - 02:28 |
| Limit: FCC_Part15.407_Band Edge(3m) | Engineer: Kevin Ker |
| Probe: BBHA 9120D_1-18GHz | Polarity: Horizontal |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11ac-VHT40 at channel 5795MHz Ant 0 + 1 | |

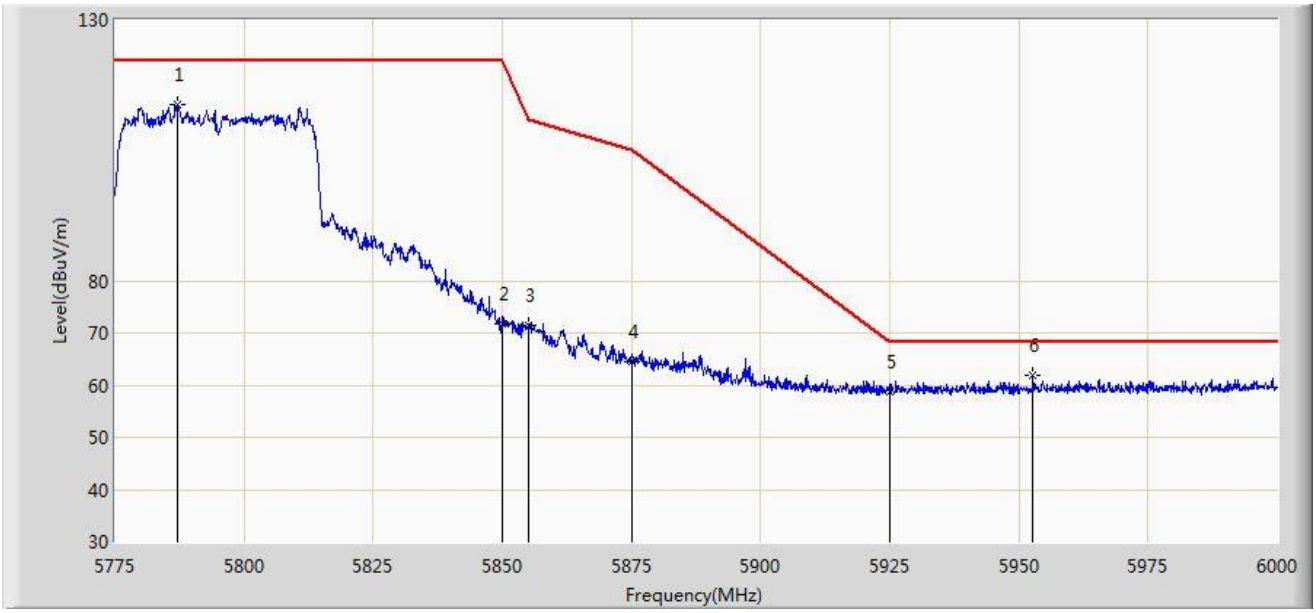



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5786.925 | 96.060 | 90.788 | N/A | N/A | 5.272 | PK |
| 2 | | | 5850.000 | 58.781 | 53.267 | -63.419 | 122.200 | 5.514 | PK |
| 3 | | | 5855.000 | 58.842 | 53.309 | -51.958 | 110.800 | 5.533 | PK |
| 4 | | | 5875.000 | 57.801 | 52.191 | -47.399 | 105.200 | 5.610 | PK |
| 5 | | | 5925.000 | 58.620 | 52.818 | -9.580 | 68.200 | 5.802 | PK |
| 6 | | * | 5928.675 | 60.470 | 54.654 | -7.730 | 68.200 | 5.816 | PK |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

| | |
|---|---|
| Site: AC1 | Time: 2019/06/28 - 02:31 |
| Limit: FCC_Part15.407_Band Edge(3m) | Engineer: Kevin Ker |
| Probe: BBHA 9120D_1-18GHz | Polarity: Vertical |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11ac-VHT40 at channel 5795MHz Ant 0 + 1 | |

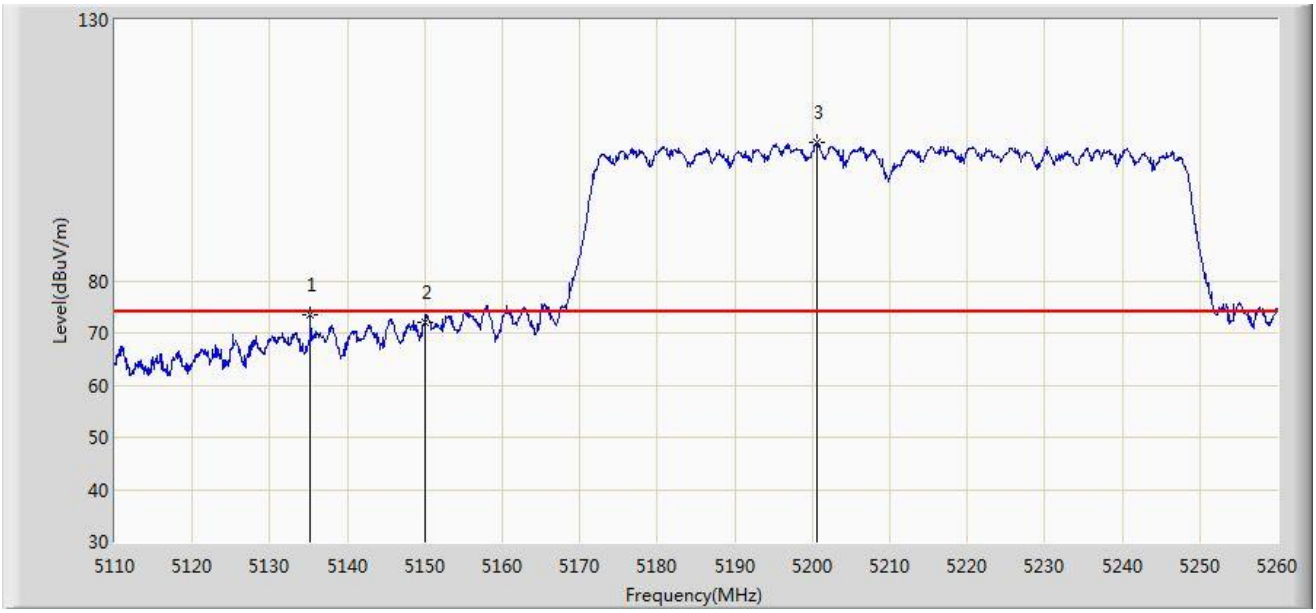



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5787.150 | 113.911 | 108.638 | N/A | N/A | 5.274 | PK |
| 2 | | | 5850.000 | 71.884 | 66.370 | -50.316 | 122.200 | 5.514 | PK |
| 3 | | | 5855.000 | 71.402 | 65.869 | -39.398 | 110.800 | 5.533 | PK |
| 4 | | | 5875.000 | 64.378 | 58.768 | -40.822 | 105.200 | 5.610 | PK |
| 5 | | | 5925.000 | 58.819 | 53.017 | -9.381 | 68.200 | 5.802 | PK |
| 6 | | * | 5952.750 | 61.792 | 55.883 | -6.408 | 68.200 | 5.909 | PK |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

| | |
|---|---|
| Site: AC1 | Time: 2019/07/02 - 03:37 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Kevin Ker |
| Probe: BBHA 9120D_1-18GHz | Polarity: Horizontal |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11ac-VHT80 at channel 5210MHz Ant 0 + 1 | |

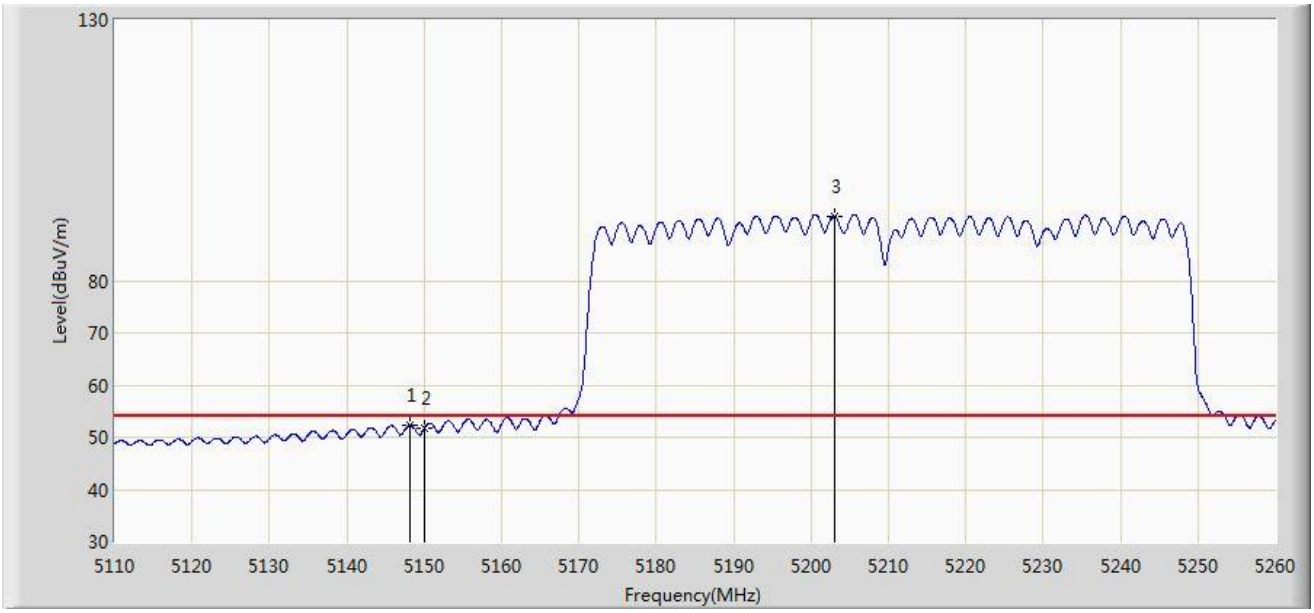



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5135.275 | 73.499 | 69.636 | -0.501 | 74.000 | 3.863 | PK |
| 2 | | | 5150.000 | 72.131 | 68.255 | -1.869 | 74.000 | 3.876 | PK |
| 3 | | * | 5200.675 | 106.388 | 102.469 | N/A | N/A | 3.919 | PK |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

| | |
|---|---|
| Site: AC1 | Time: 2019/07/02 - 03:39 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Kevin Ker |
| Probe: BBHA 9120D_1-18GHz | Polarity: Horizontal |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11ac-VHT80 at channel 5210MHz Ant 0 + 1 | |

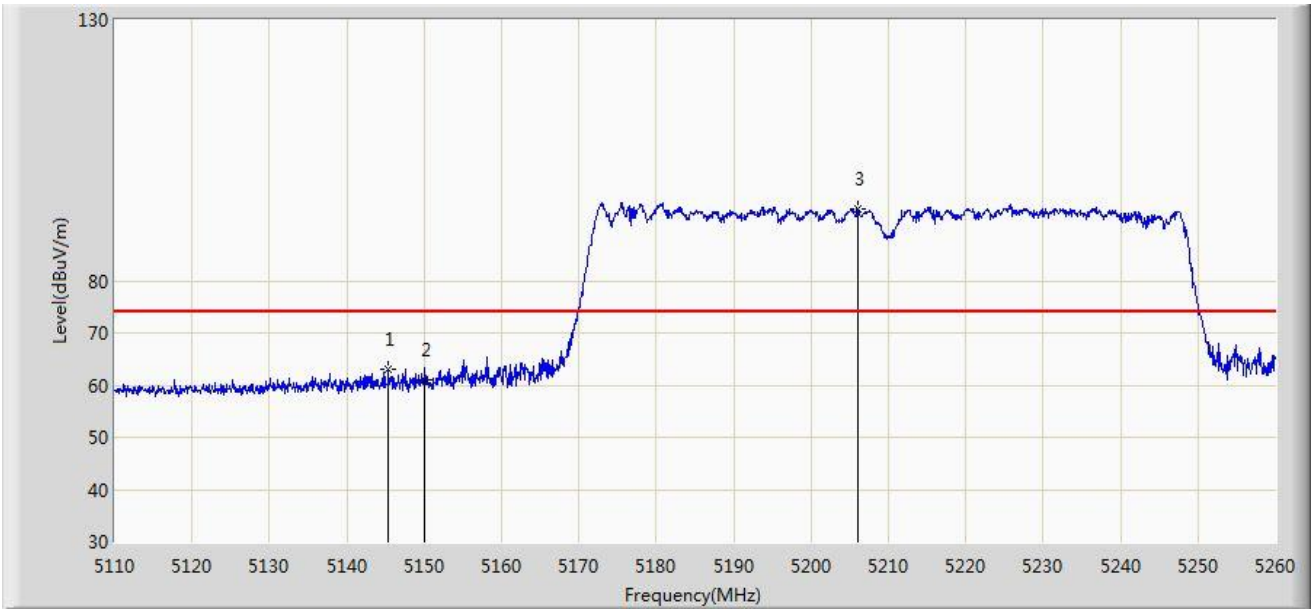



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5148.175 | 52.353 | 48.479 | -1.647 | 54.000 | 3.874 | AV |
| 2 | | | 5150.000 | 51.672 | 47.796 | -2.328 | 54.000 | 3.876 | AV |
| 3 | | * | 5203.000 | 92.424 | 88.503 | N/A | N/A | 3.921 | AV |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

| | |
|---|---|
| Site: AC1 | Time: 2019/07/02 - 03:42 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Kevin Ker |
| Probe: BBHA 9120D_1-18GHz | Polarity: Vertical |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11ac-VHT80 at channel 5210MHz Ant 0 + 1 | |

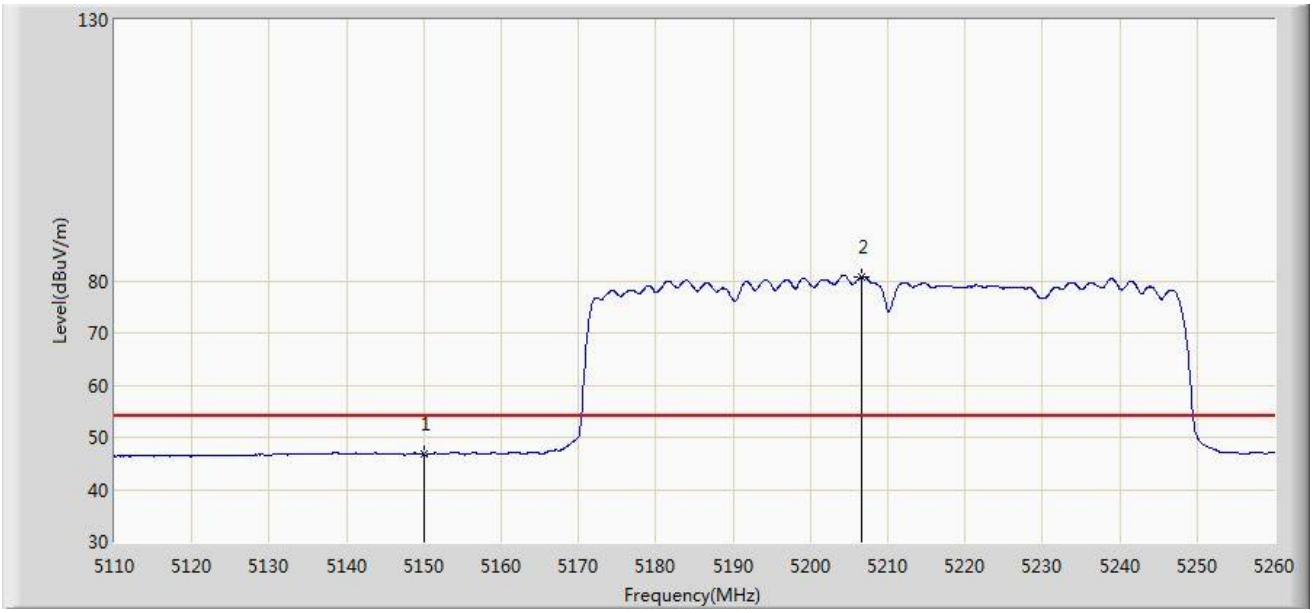



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5145.400 | 62.927 | 59.055 | -11.073 | 74.000 | 3.872 | PK |
| 2 | | | 5150.000 | 61.054 | 57.178 | -12.946 | 74.000 | 3.876 | PK |
| 3 | | * | 5206.000 | 93.887 | 89.964 | N/A | N/A | 3.923 | PK |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

| | |
|---|---|
| Site: AC1 | Time: 2019/07/02 - 03:42 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Kevin Ker |
| Probe: BBHA 9120D_1-18GHz | Polarity: Vertical |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11ac-VHT80 at channel 5210MHz Ant 0 + 1 | |

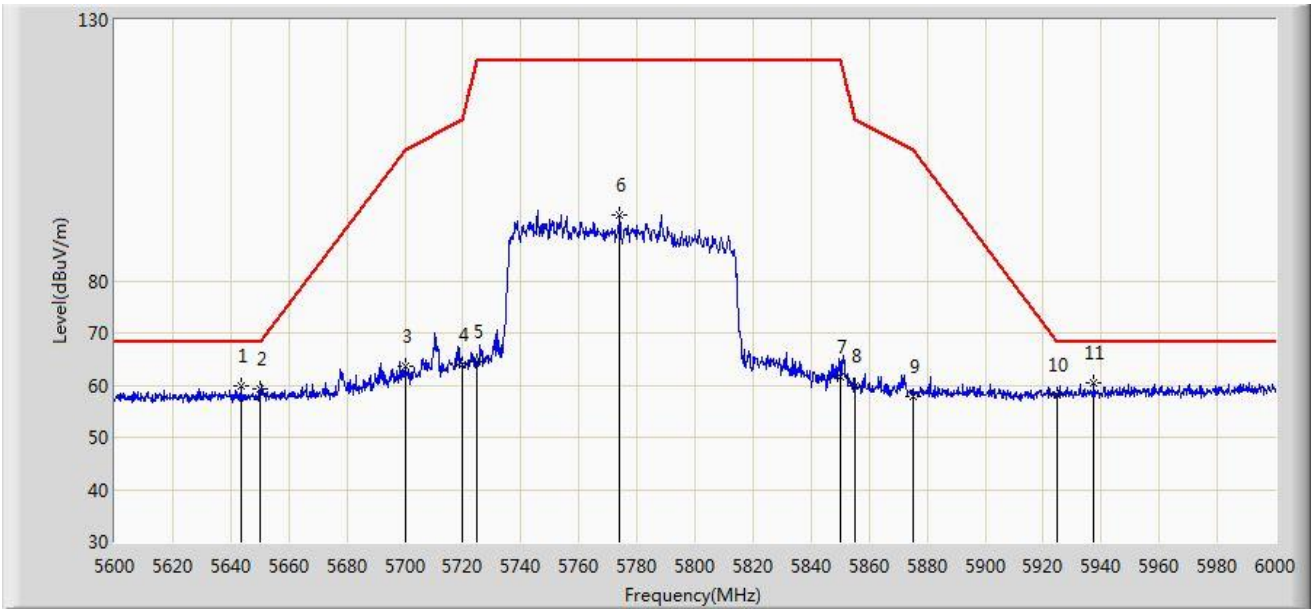



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5150.000 | 46.684 | 42.808 | -7.316 | 54.000 | 3.876 | AV |
| 2 | | * | 5206.600 | 80.782 | 76.858 | N/A | N/A | 3.924 | AV |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

| | |
|---|---|
| Site: AC1 | Time: 2019/06/28 - 03:15 |
| Limit: FCC_Part15.407_Band Edge(3m) | Engineer: Kevin Ker |
| Probe: BBHA 9120D_1-18GHz | Polarity: Horizontal |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11ac-VHT80 at channel 5775MHz Ant 0 + 1 | |

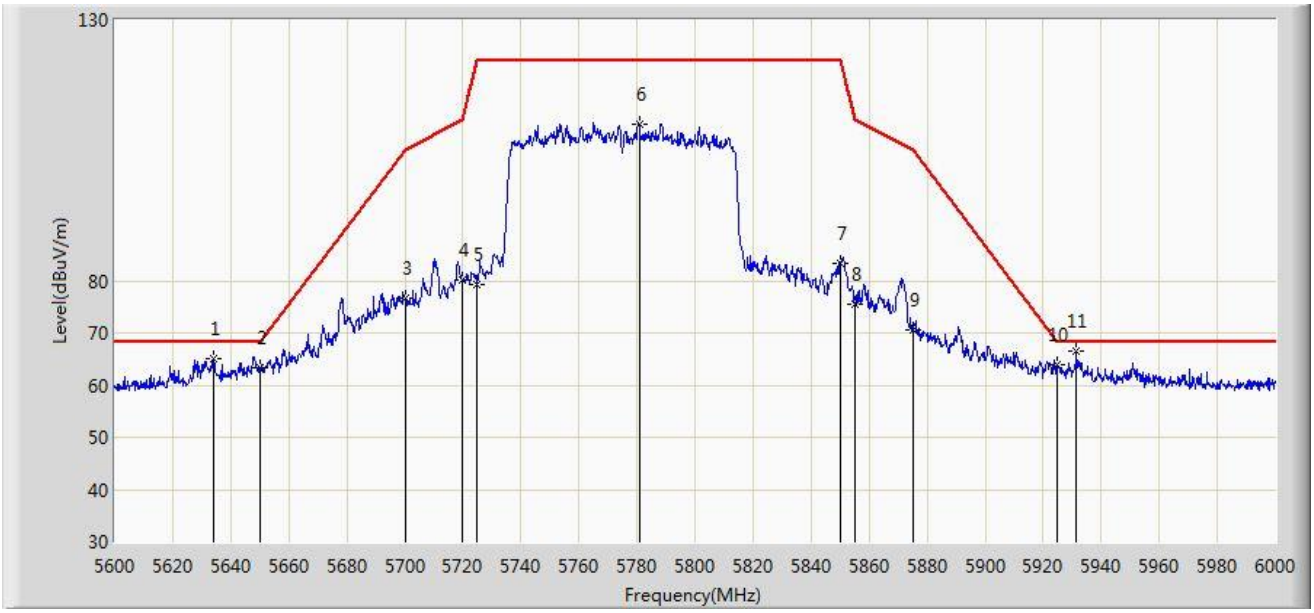



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5643.400 | 59.713 | 54.992 | -8.487 | 68.200 | 4.721 | PK |
| 2 | | | 5650.000 | 59.219 | 54.473 | -8.981 | 68.200 | 4.746 | PK |
| 3 | | | 5700.000 | 63.565 | 58.627 | -41.635 | 105.200 | 4.938 | PK |
| 4 | | | 5720.000 | 63.969 | 58.954 | -46.831 | 110.800 | 5.015 | PK |
| 5 | | | 5725.000 | 64.428 | 59.394 | -57.772 | 122.200 | 5.034 | PK |
| 6 | | | 5774.000 | 92.613 | 87.391 | N/A | N/A | 5.222 | PK |
| 7 | | | 5850.000 | 61.538 | 56.024 | -60.662 | 122.200 | 5.514 | PK |
| 8 | | | 5855.000 | 59.987 | 54.454 | -50.813 | 110.800 | 5.533 | PK |
| 9 | | | 5875.000 | 57.846 | 52.236 | -47.354 | 105.200 | 5.610 | PK |
| 10 | | | 5925.000 | 58.177 | 52.375 | -10.023 | 68.200 | 5.802 | PK |
| 11 | | * | 5937.400 | 60.382 | 54.532 | -7.818 | 68.200 | 5.850 | PK |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

| | |
|---|---|
| Site: AC1 | Time: 2019/06/28 - 03:17 |
| Limit: FCC_Part15.407_Band Edge(3m) | Engineer: Kevin Ker |
| Probe: BBHA 9120D_1-18GHz | Polarity: Vertical |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11ac-VHT80 at channel 5775MHz Ant 0 + 1 | |

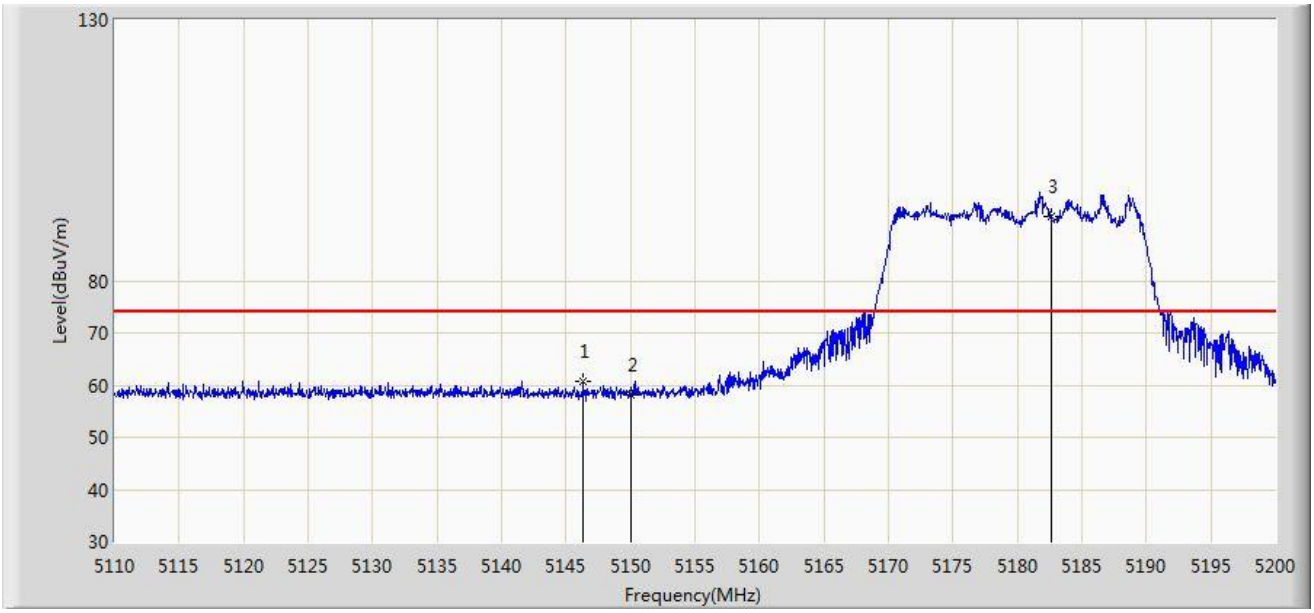



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5634.200 | 64.965 | 60.279 | -3.235 | 68.200 | 4.686 | PK |
| 2 | | | 5650.000 | 63.234 | 58.488 | -4.966 | 68.200 | 4.746 | PK |
| 3 | | | 5700.000 | 76.613 | 71.675 | -28.587 | 105.200 | 4.938 | PK |
| 4 | | | 5720.000 | 80.207 | 75.192 | -30.593 | 110.800 | 5.015 | PK |
| 5 | | | 5725.000 | 79.160 | 74.126 | -43.040 | 122.200 | 5.034 | PK |
| 6 | | | 5780.800 | 110.052 | 104.803 | N/A | N/A | 5.249 | PK |
| 7 | | | 5850.000 | 83.312 | 77.798 | -38.888 | 122.200 | 5.514 | PK |
| 8 | | | 5855.000 | 75.416 | 69.883 | -35.384 | 110.800 | 5.533 | PK |
| 9 | | | 5875.000 | 70.557 | 64.947 | -34.643 | 105.200 | 5.610 | PK |
| 10 | | | 5925.000 | 63.775 | 57.973 | -4.425 | 68.200 | 5.802 | PK |
| 11 | | * | 5931.400 | 66.528 | 60.701 | -1.672 | 68.200 | 5.827 | PK |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

| | |
|---|---|
| Site: AC1 | Time: 2019/06/28 - 03:34 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Kevin Ker |
| Probe: BBHA 9120D_1-18GHz | Polarity: Horizontal |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11ax-HE20 at channel 5180MHz Ant 0 + 1 | |

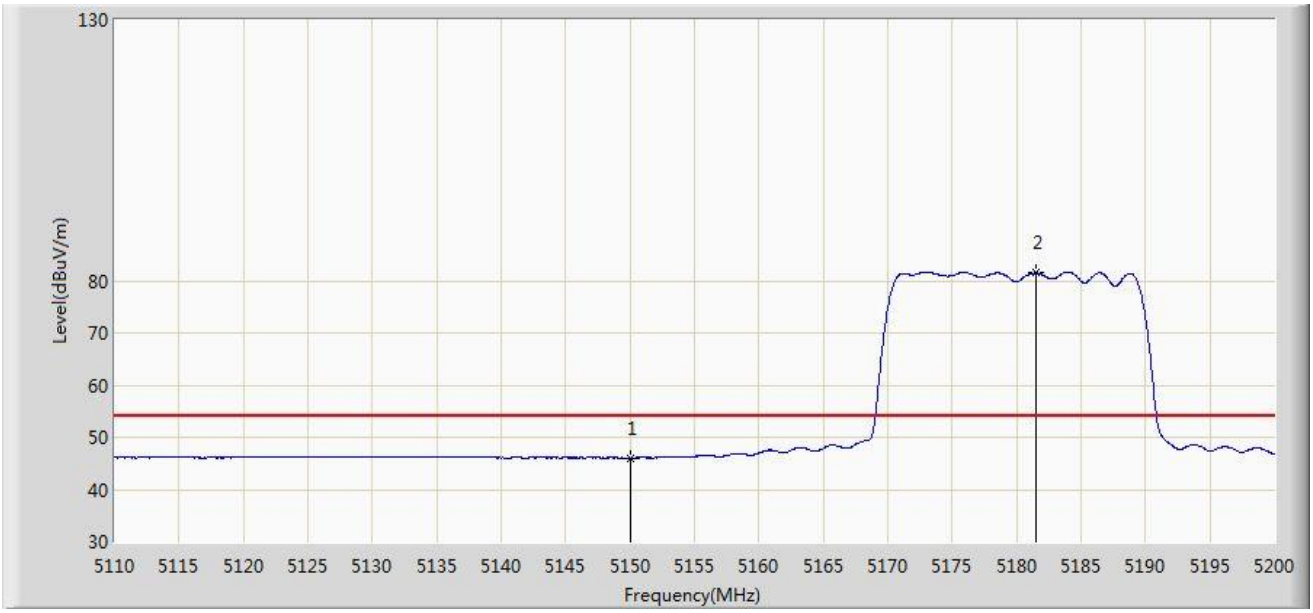



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5146.315 | 60.794 | 56.921 | -13.206 | 74.000 | 3.873 | PK |
| 2 | | | 5150.000 | 58.260 | 54.384 | -15.740 | 74.000 | 3.876 | PK |
| 3 | | * | 5182.585 | 92.463 | 88.559 | N/A | N/A | 3.904 | PK |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

| | |
|---|---|
| Site: AC1 | Time: 2019/06/28 - 03:35 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Kevin Ker |
| Probe: BBHA 9120D_1-18GHz | Polarity: Horizontal |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11ax-HE20 at channel 5180MHz Ant 0 + 1 | |

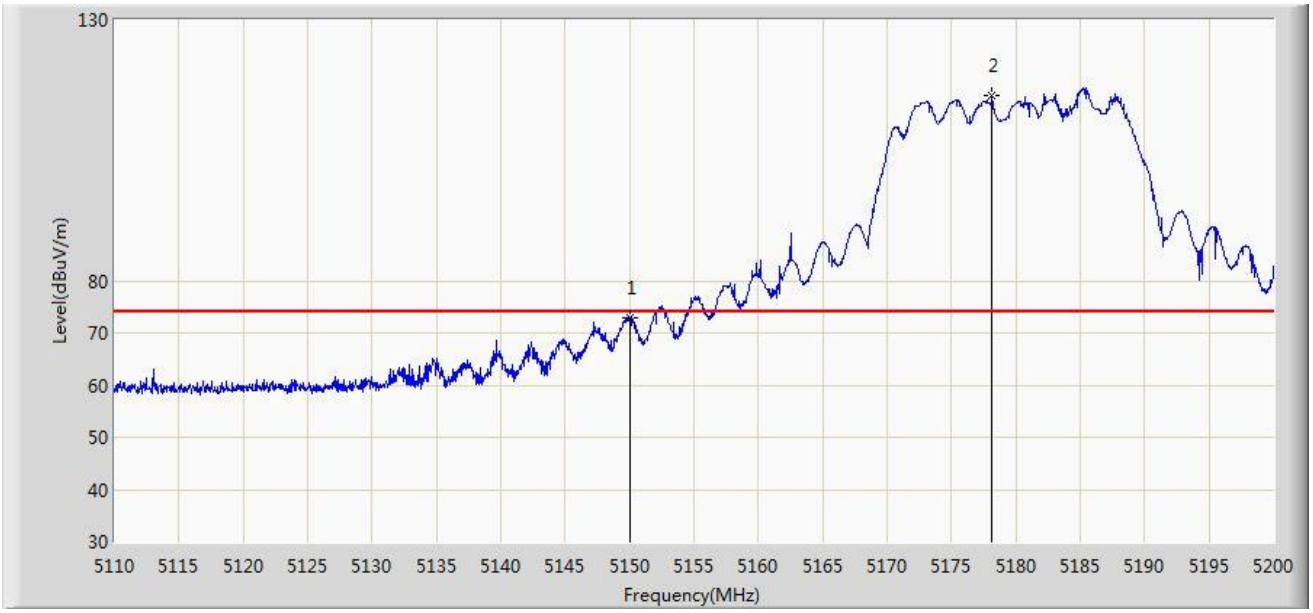



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5150.000 | 46.040 | 42.164 | -7.960 | 54.000 | 3.876 | AV |
| 2 | | * | 5181.460 | 81.455 | 77.552 | N/A | N/A | 3.903 | AV |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

| | |
|---|---|
| Site: AC1 | Time: 2019/06/28 - 03:32 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Kevin Ker |
| Probe: BBHA 9120D_1-18GHz | Polarity: Vertical |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11ax-HE20 at channel 5180MHz Ant 0 + 1 | |

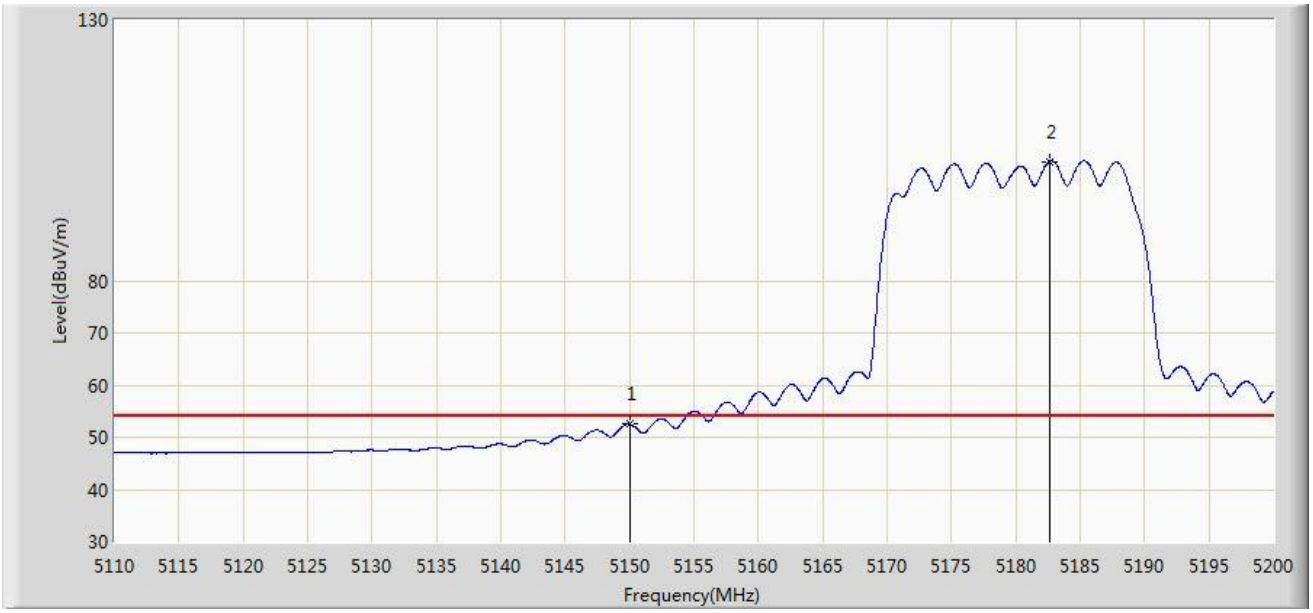



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5150.000 | 72.940 | 69.064 | -1.060 | 74.000 | 3.876 | PK |
| 2 | | * | 5178.175 | 115.411 | 111.511 | N/A | N/A | 3.900 | PK |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

| | |
|---|---|
| Site: AC1 | Time: 2019/06/28 - 03:33 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Kevin Ker |
| Probe: BBHA 9120D_1-18GHz | Polarity: Vertical |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11ax-HE20 at channel 5180MHz Ant 0 + 1 | |

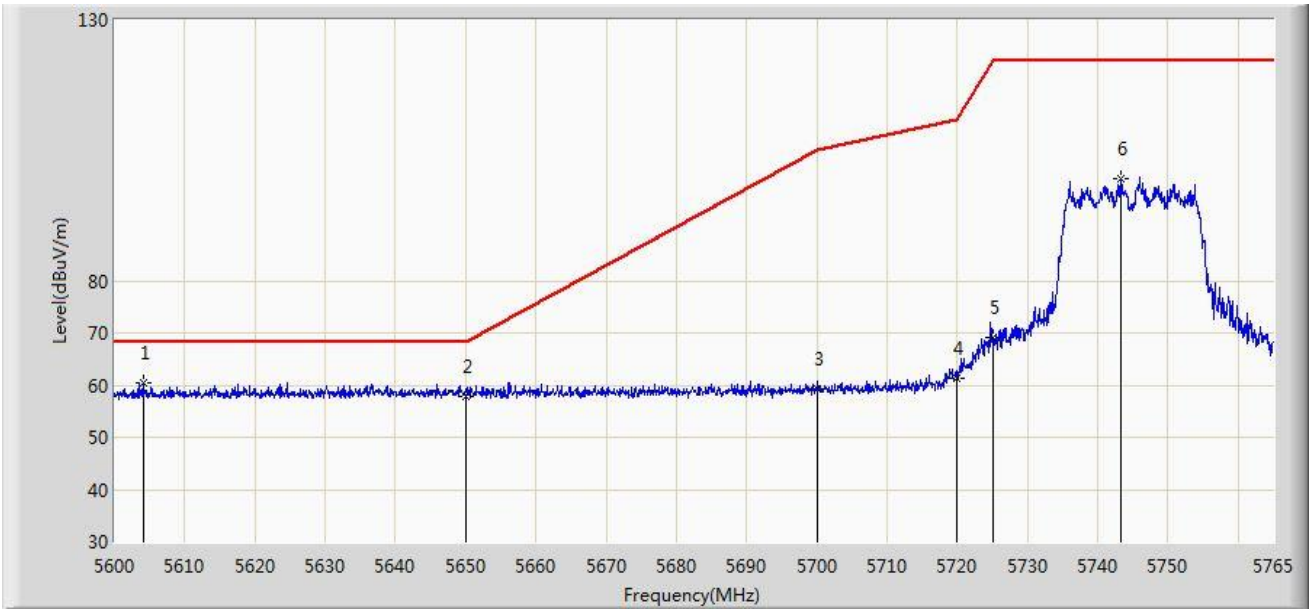



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5150.000 | 52.485 | 48.609 | -1.515 | 54.000 | 3.876 | AV |
| 2 | | * | 5182.585 | 102.872 | 98.968 | N/A | N/A | 3.904 | AV |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

| | |
|---|---|
| Site: AC1 | Time: 2019/06/28 - 03:57 |
| Limit: FCC_Part15.407_Band Edge(3m) | Engineer: Kevin Ker |
| Probe: BBHA 9120D_1-18GHz | Polarity: Horizontal |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11ax-HE20 at channel 5745MHz Ant 0 + 1 | |

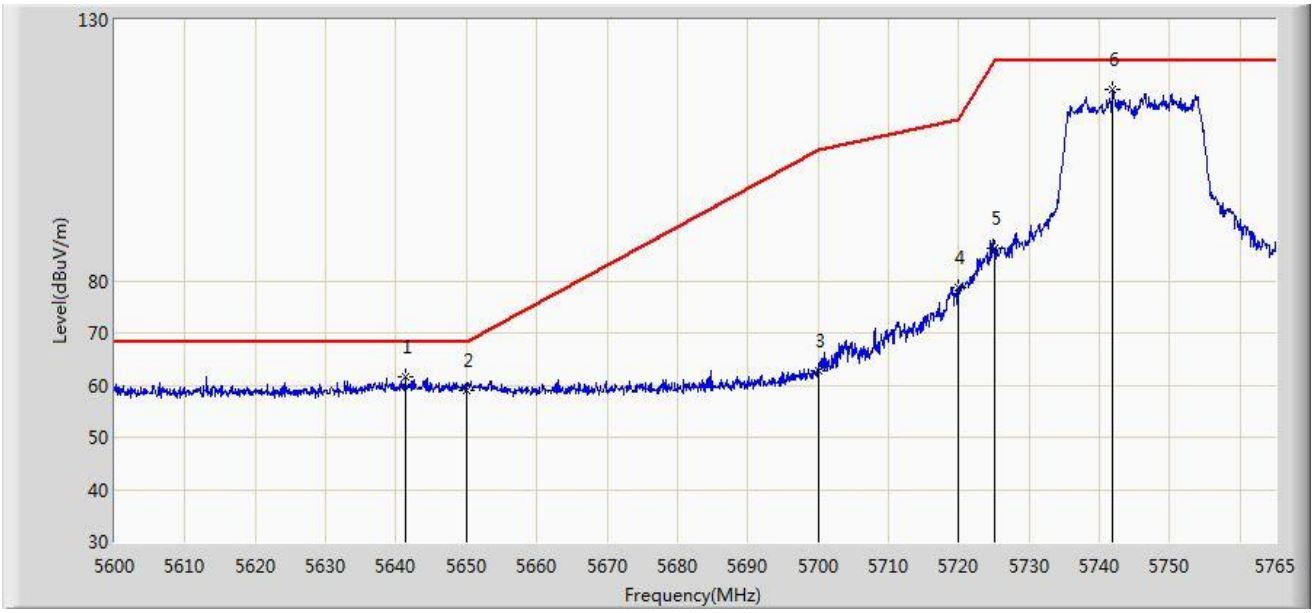



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 5604.042 | 60.295 | 55.726 | -7.905 | 68.200 | 4.570 | PK |
| 2 | | | 5650.000 | 57.946 | 53.200 | -10.254 | 68.200 | 4.746 | PK |
| 3 | | | 5700.000 | 59.355 | 54.417 | -45.845 | 105.200 | 4.938 | PK |
| 4 | | | 5720.000 | 61.362 | 56.347 | -49.438 | 110.800 | 5.015 | PK |
| 5 | | | 5725.000 | 69.161 | 64.127 | -53.039 | 122.200 | 5.034 | PK |
| 6 | | | 5743.303 | 99.494 | 94.390 | N/A | N/A | 5.104 | PK |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

| | |
|---|---|
| Site: AC1 | Time: 2019/06/28 - 03:58 |
| Limit: FCC_Part15.407_Band Edge(3m) | Engineer: Kevin Ker |
| Probe: BBHA 9120D_1-18GHz | Polarity: Vertical |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11ax-HE20 at channel 5745MHz Ant 0 + 1 | |

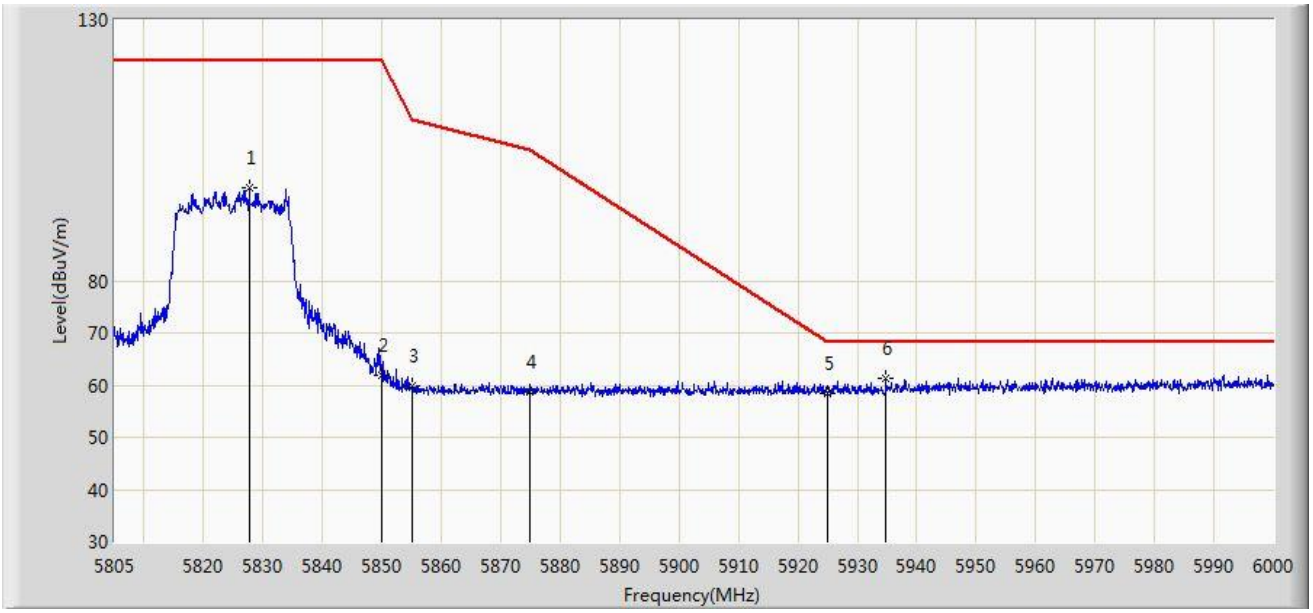



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5641.250 | 61.450 | 56.737 | -6.750 | 68.200 | 4.712 | PK |
| 2 | | | 5650.000 | 58.869 | 54.123 | -9.331 | 68.200 | 4.746 | PK |
| 3 | | | 5700.000 | 62.872 | 57.934 | -42.328 | 105.200 | 4.938 | PK |
| 4 | | | 5720.000 | 78.723 | 73.708 | -32.077 | 110.800 | 5.015 | PK |
| 5 | | | 5725.000 | 86.118 | 81.084 | -36.082 | 122.200 | 5.034 | PK |
| 6 | | * | 5741.900 | 116.706 | 111.607 | N/A | N/A | 5.099 | PK |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

| | |
|---|---|
| Site: AC1 | Time: 2019/06/28 - 04:00 |
| Limit: FCC_Part15.407_Band Edge(3m) | Engineer: Kevin Ker |
| Probe: BBHA 9120D_1-18GHz | Polarity: Horizontal |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11ax-HE20 at channel 5825MHz Ant 0 + 1 | |

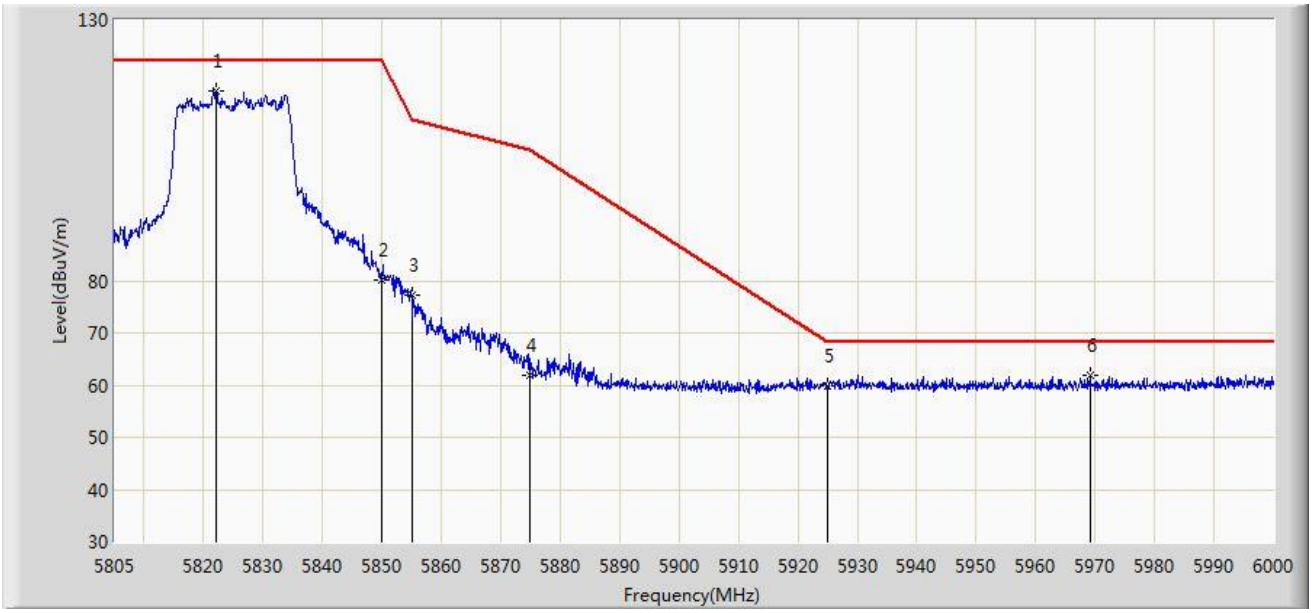



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5827.620 | 97.806 | 92.378 | N/A | N/A | 5.428 | PK |
| 2 | | | 5850.000 | 61.747 | 56.233 | -60.453 | 122.200 | 5.514 | PK |
| 3 | | | 5855.000 | 59.881 | 54.348 | -50.919 | 110.800 | 5.533 | PK |
| 4 | | | 5875.000 | 58.578 | 52.968 | -46.622 | 105.200 | 5.610 | PK |
| 5 | | | 5925.000 | 58.459 | 52.657 | -9.741 | 68.200 | 5.802 | PK |
| 6 | | * | 5934.772 | 61.168 | 55.328 | -7.032 | 68.200 | 5.840 | PK |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

| | |
|---|---|
| Site: AC1 | Time: 2019/06/28 - 04:02 |
| Limit: FCC_Part15.407_Band Edge(3m) | Engineer: Kevin Ker |
| Probe: BBHA 9120D_1-18GHz | Polarity: Vertical |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11ax-HE20 at channel 5825MHz Ant 0 + 1 | |

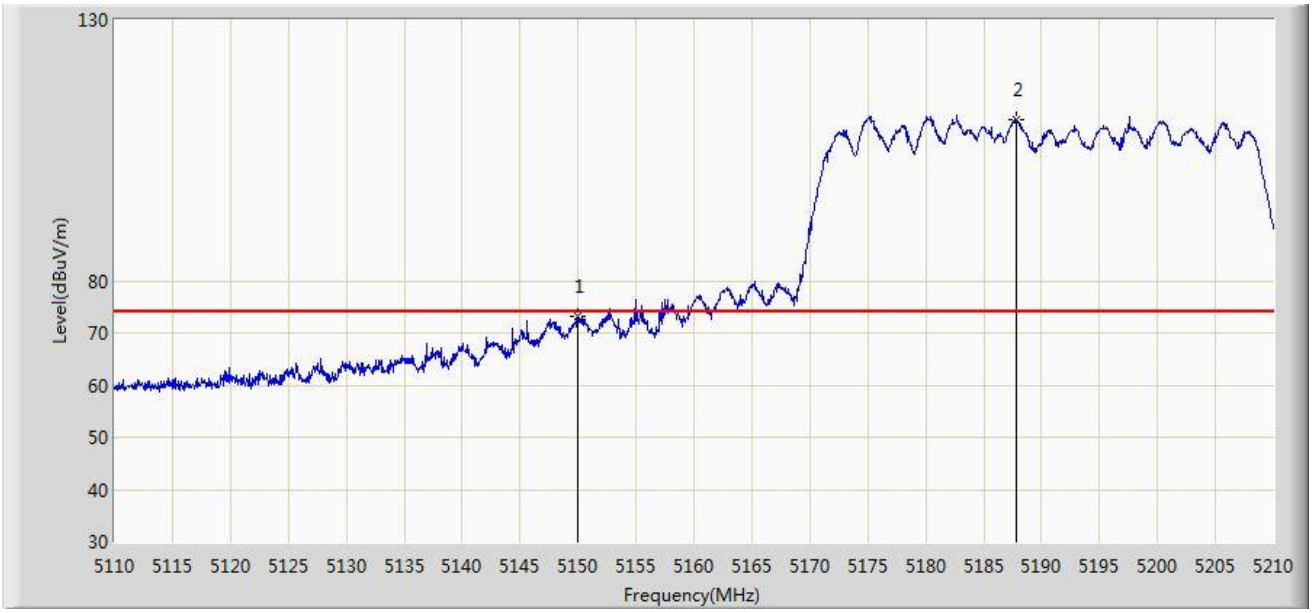



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 5822.062 | 116.491 | 111.084 | N/A | N/A | 5.408 | PK |
| 2 | | | 5850.000 | 80.277 | 74.763 | -41.923 | 122.200 | 5.514 | PK |
| 3 | | | 5855.000 | 77.200 | 71.667 | -33.600 | 110.800 | 5.533 | PK |
| 4 | | | 5875.000 | 61.925 | 56.315 | -43.275 | 105.200 | 5.610 | PK |
| 5 | | | 5925.000 | 59.746 | 53.944 | -8.454 | 68.200 | 5.802 | PK |
| 6 | | | 5969.092 | 61.941 | 55.969 | -6.259 | 68.200 | 5.971 | PK |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

| | |
|---|---|
| Site: AC1 | Time: 2019/07/02 - 04:10 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Kevin Ker |
| Probe: BBHA 9120D_1-18GHz | Polarity: Horizontal |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11ax-HE40 at channel 5190MHz Ant 0 + 1 | |

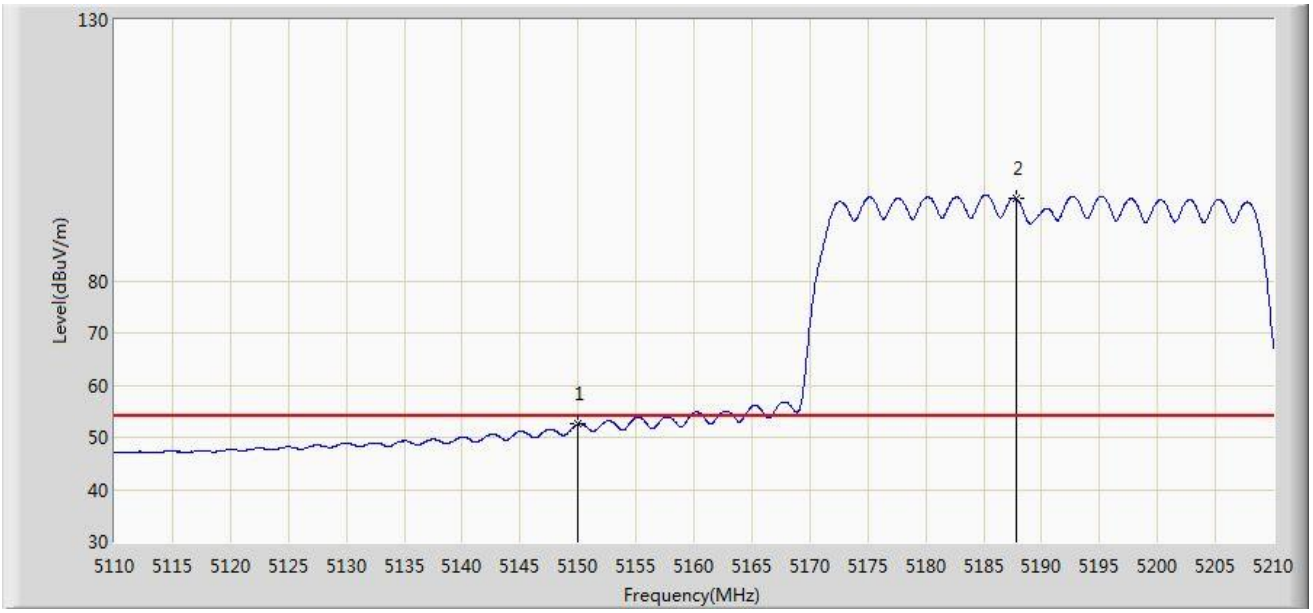



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5150.000 | 73.117 | 69.241 | -0.883 | 74.000 | 3.876 | PK |
| 2 | | * | 5187.850 | 110.900 | 106.992 | N/A | N/A | 3.908 | PK |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

| | |
|---|---|
| Site: AC1 | Time: 2019/07/02 - 04:13 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Kevin Ker |
| Probe: BBHA 9120D_1-18GHz | Polarity: Horizontal |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11ax-HE40 at channel 5190MHz Ant 0 + 1 | |

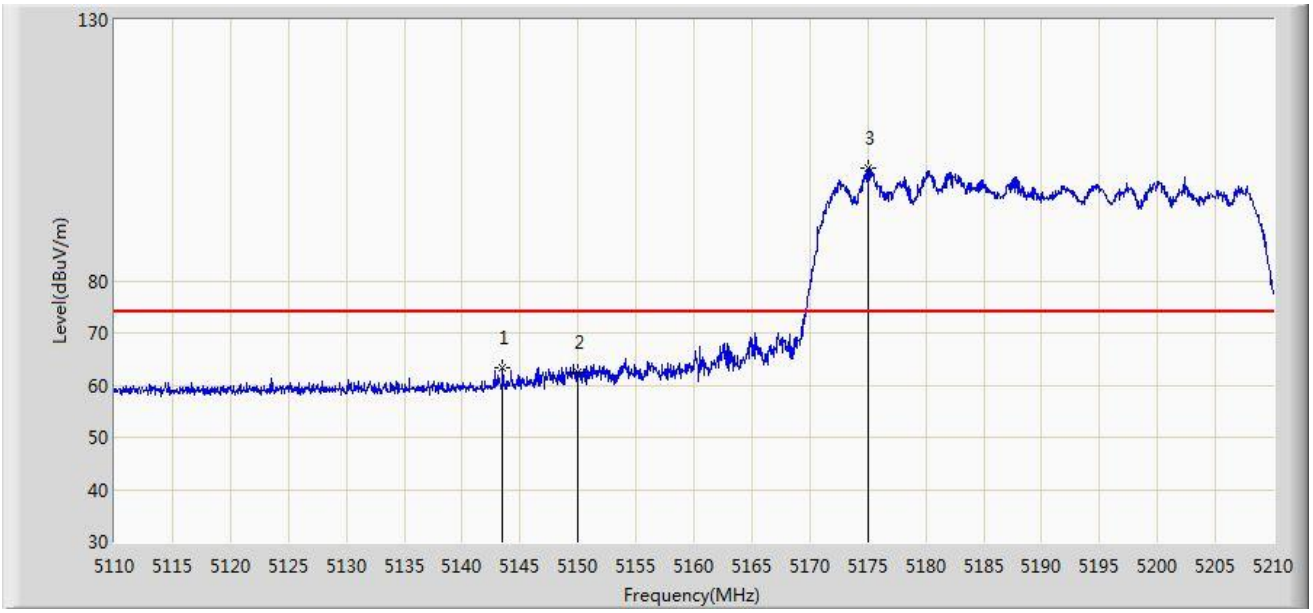



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5150.000 | 52.497 | 48.621 | -1.503 | 54.000 | 3.876 | AV |
| 2 | | * | 5187.850 | 95.737 | 91.829 | N/A | N/A | 3.908 | AV |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

| | |
|---|---|
| Site: AC1 | Time: 2019/07/02 - 04:14 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Kevin Ker |
| Probe: BBHA 9120D_1-18GHz | Polarity: Vertical |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11ax-HE40 at channel 5190MHz Ant 0 + 1 | |

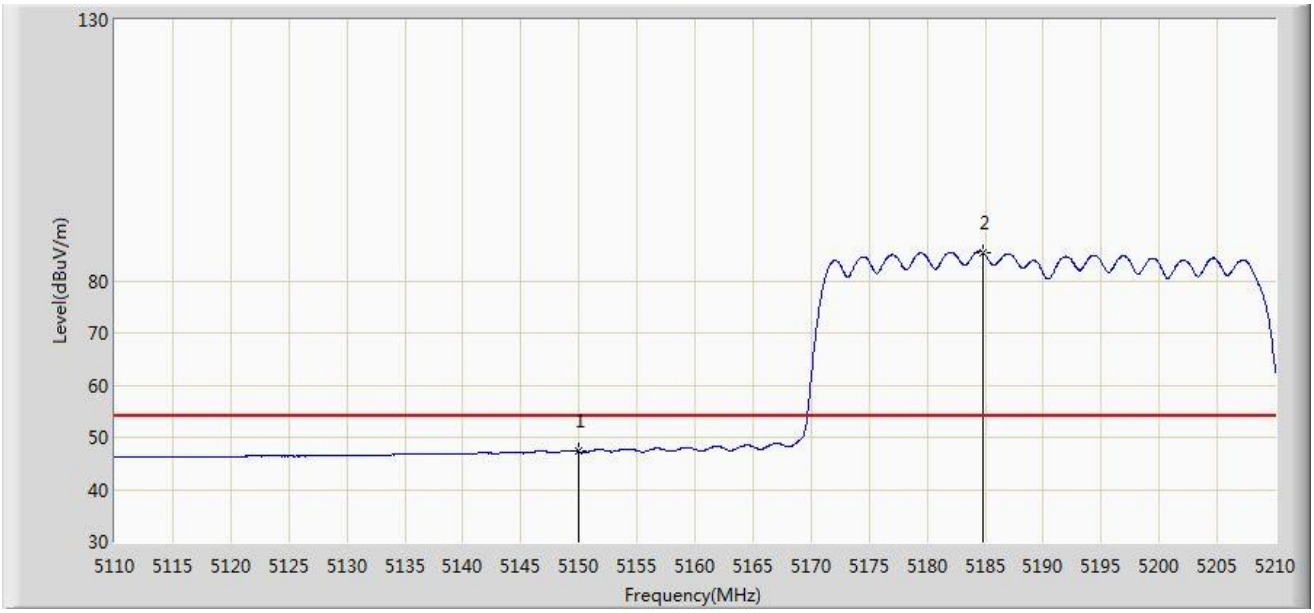



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5143.500 | 63.439 | 59.569 | -10.561 | 74.000 | 3.870 | PK |
| 2 | | | 5150.000 | 62.355 | 58.479 | -11.645 | 74.000 | 3.876 | PK |
| 3 | | * | 5175.050 | 101.473 | 97.576 | N/A | N/A | 3.897 | PK |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

| | |
|---|---|
| Site: AC1 | Time: 2019/07/02 - 04:16 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Kevin Ker |
| Probe: BBHA 9120D_1-18GHz | Polarity: Vertical |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11ax-HE40 at channel 5190MHz Ant 0 + 1 | |

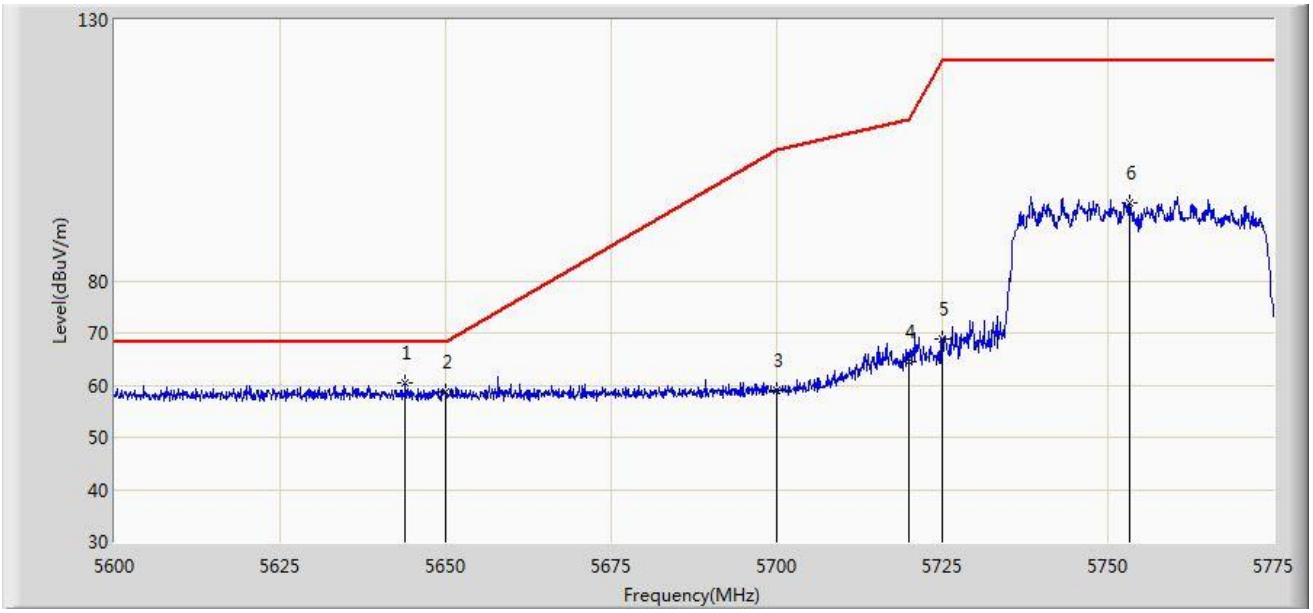



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5150.000 | 47.252 | 43.376 | -6.748 | 54.000 | 3.876 | AV |
| 2 | | * | 5184.750 | 85.448 | 81.542 | N/A | N/A | 3.906 | AV |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

| | |
|---|---|
| Site: AC1 | Time: 2019/06/28 - 04:44 |
| Limit: FCC_Part15.407_Band Edge(3m) | Engineer: Kevin Ker |
| Probe: BBHA 9120D_1-18GHz | Polarity: Horizontal |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11ax-HE40 at channel 5755MHz Ant 0 + 1 | |

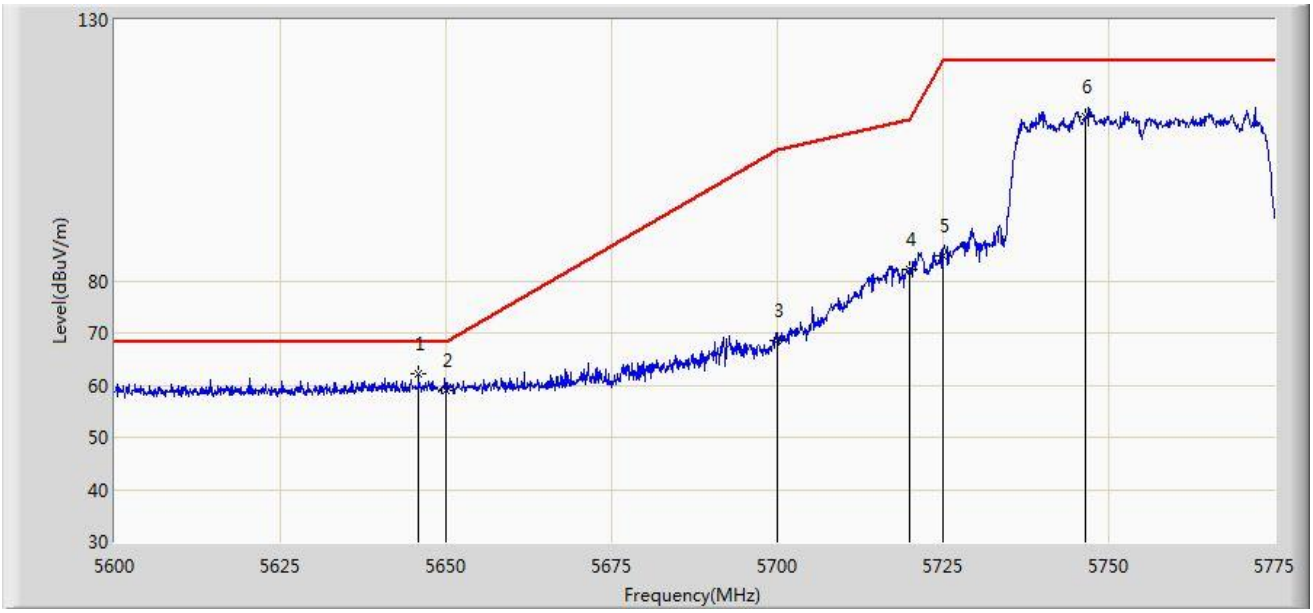



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 5643.925 | 60.448 | 55.725 | -7.752 | 68.200 | 4.723 | PK |
| 2 | | | 5650.000 | 58.560 | 53.814 | -9.640 | 68.200 | 4.746 | PK |
| 3 | | | 5700.000 | 58.903 | 53.965 | -46.297 | 105.200 | 4.938 | PK |
| 4 | | | 5720.000 | 64.587 | 59.572 | -46.213 | 110.800 | 5.015 | PK |
| 5 | | | 5725.000 | 68.778 | 63.744 | -53.422 | 122.200 | 5.034 | PK |
| 6 | | | 5753.388 | 95.012 | 89.869 | N/A | N/A | 5.142 | PK |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

| | |
|---|---|
| Site: AC1 | Time: 2019/06/28 - 04:45 |
| Limit: FCC_Part15.407_Band Edge(3m) | Engineer: Kevin Ker |
| Probe: BBHA 9120D_1-18GHz | Polarity: Vertical |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11ax-HE40 at channel 5755MHz Ant 0 + 1 | |

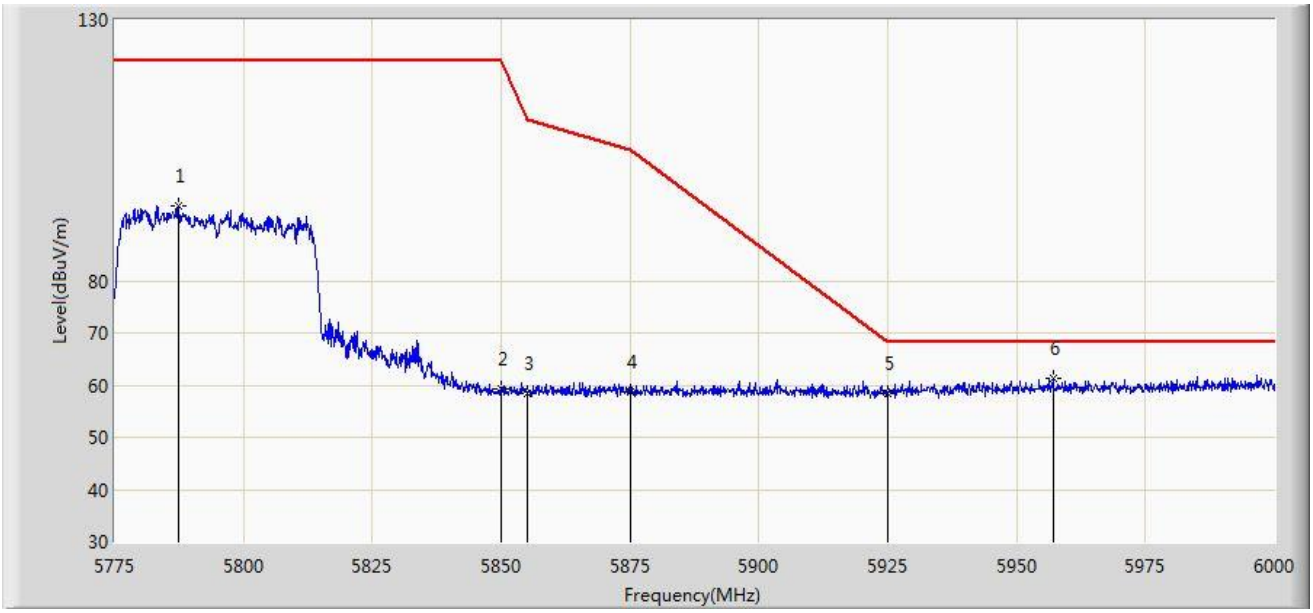



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 5645.850 | 62.144 | 57.414 | -6.056 | 68.200 | 4.731 | PK |
| 2 | | | 5650.000 | 58.975 | 54.229 | -9.225 | 68.200 | 4.746 | PK |
| 3 | | | 5700.000 | 68.454 | 63.516 | -36.746 | 105.200 | 4.938 | PK |
| 4 | | | 5720.000 | 82.203 | 77.188 | -28.597 | 110.800 | 5.015 | PK |
| 5 | | | 5725.000 | 84.776 | 79.742 | -37.424 | 122.200 | 5.034 | PK |
| 6 | | | 5746.562 | 111.476 | 106.360 | N/A | N/A | 5.116 | PK |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

| | |
|---|---|
| Site: AC1 | Time: 2019/06/28 - 04:47 |
| Limit: FCC_Part15.407_Band Edge(3m) | Engineer: Kevin Ker |
| Probe: BBHA 9120D_1-18GHz | Polarity: Horizontal |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11ax-HE40 at channel 5795MHz Ant 0 + 1 | |

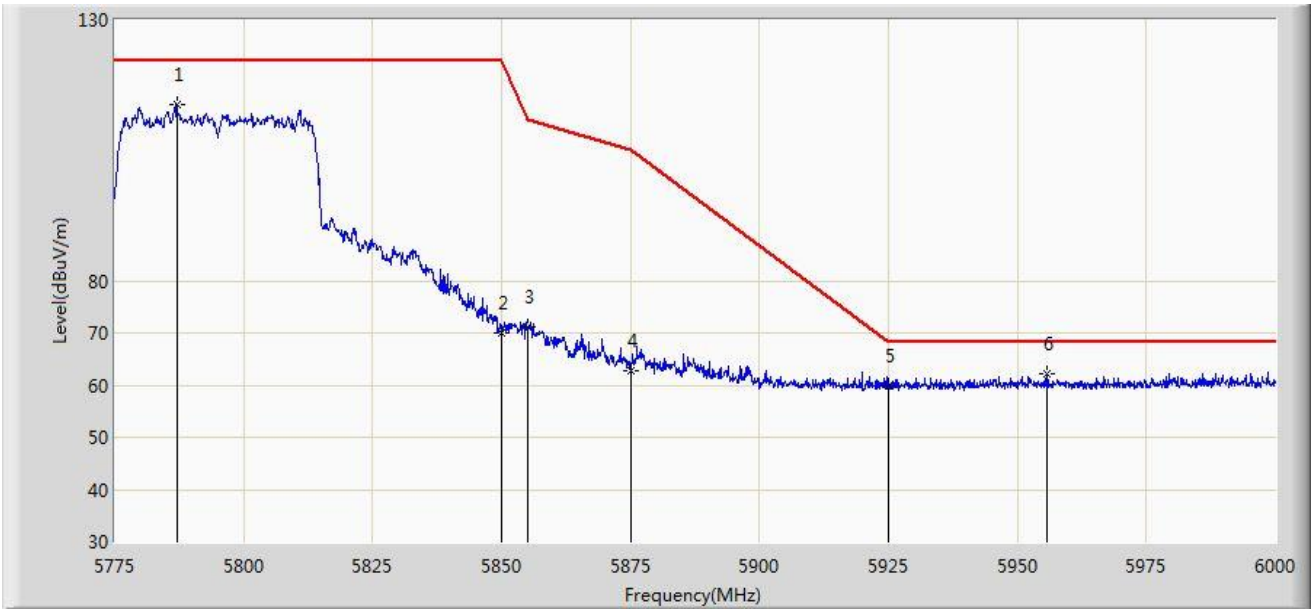



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5787.487 | 94.400 | 89.126 | N/A | N/A | 5.275 | PK |
| 2 | | | 5850.000 | 59.160 | 53.646 | -63.040 | 122.200 | 5.514 | PK |
| 3 | | | 5855.000 | 58.357 | 52.824 | -52.443 | 110.800 | 5.533 | PK |
| 4 | | | 5875.000 | 58.624 | 53.014 | -46.576 | 105.200 | 5.610 | PK |
| 5 | | | 5925.000 | 58.465 | 52.663 | -9.735 | 68.200 | 5.802 | PK |
| 6 | | * | 5957.025 | 61.224 | 55.299 | -6.976 | 68.200 | 5.925 | PK |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

| | |
|---|---|
| Site: AC1 | Time: 2019/06/28 - 04:48 |
| Limit: FCC_Part15.407_Band Edge(3m) | Engineer: Kevin Ker |
| Probe: BBHA 9120D_1-18GHz | Polarity: Vertical |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11ax-HE40 at channel 5795MHz Ant 0 + 1 | |

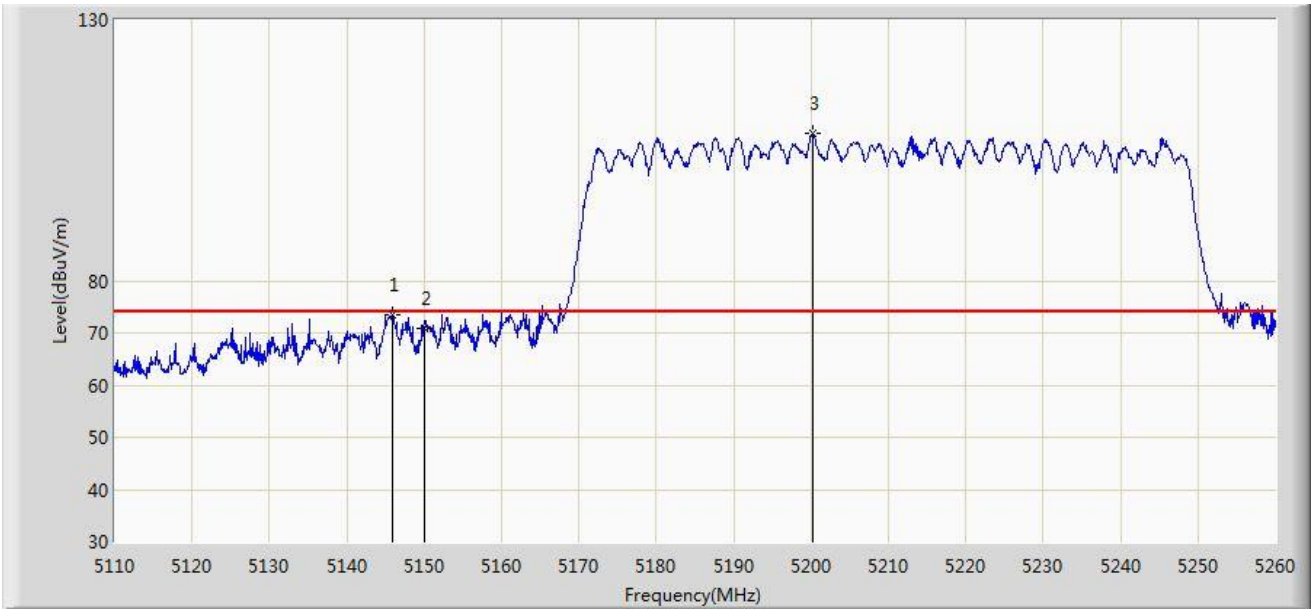



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5787.038 | 113.834 | 108.561 | N/A | N/A | 5.273 | PK |
| 2 | | | 5850.000 | 70.047 | 64.533 | -52.153 | 122.200 | 5.514 | PK |
| 3 | | | 5855.000 | 71.060 | 65.527 | -39.740 | 110.800 | 5.533 | PK |
| 4 | | | 5875.000 | 62.857 | 57.247 | -42.343 | 105.200 | 5.610 | PK |
| 5 | | | 5925.000 | 59.992 | 54.190 | -8.208 | 68.200 | 5.802 | PK |
| 6 | | * | 5955.788 | 62.033 | 56.112 | -6.167 | 68.200 | 5.921 | PK |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

| | |
|---|---|
| Site: AC1 | Time: 2019/07/02 - 04:43 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Kevin Ker |
| Probe: BBHA 9120D_1-18GHz | Polarity: Horizontal |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11ax-HE80 at channel 5210MHz Ant 0 + 1 | |

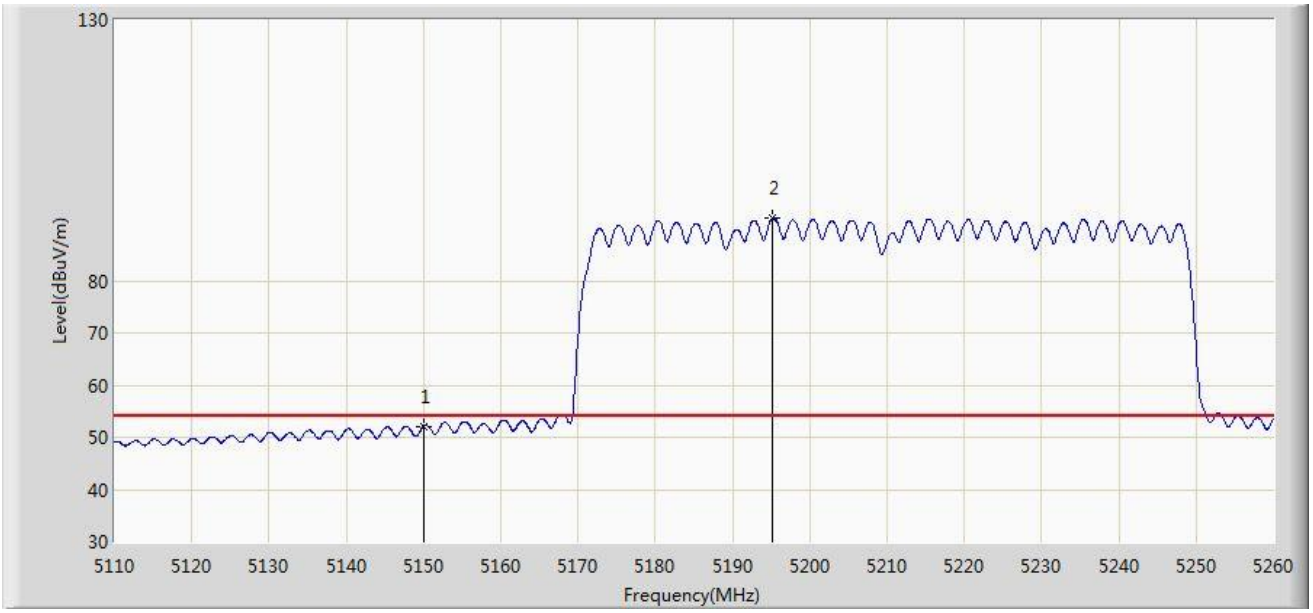



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5145.925 | 73.403 | 69.531 | -0.597 | 74.000 | 3.872 | PK |
| 2 | | | 5150.000 | 70.815 | 66.939 | -3.185 | 74.000 | 3.876 | PK |
| 3 | | * | 5200.150 | 108.208 | 104.290 | N/A | N/A | 3.918 | PK |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

| | |
|---|---|
| Site: AC1 | Time: 2019/07/02 - 04:46 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Kevin Ker |
| Probe: BBHA 9120D_1-18GHz | Polarity: Horizontal |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11ax-HE80 at channel 5210MHz Ant 0 + 1 | |

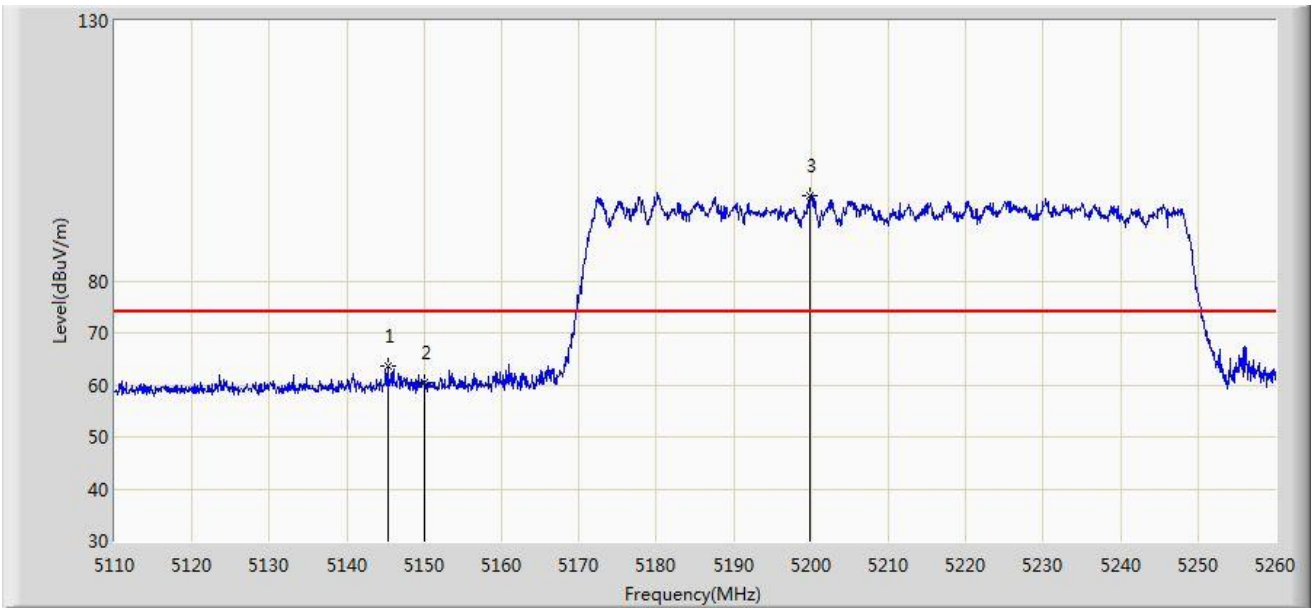



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5150.000 | 52.059 | 48.183 | -1.941 | 54.000 | 3.876 | AV |
| 2 | | * | 5195.200 | 91.977 | 88.063 | N/A | N/A | 3.914 | AV |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

| | |
|---|---|
| Site: AC1 | Time: 2019/07/02 - 04:48 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Kevin Ker |
| Probe: BBHA 9120D_1-18GHz | Polarity: Vertical |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11ax-HE80 at channel 5210MHz Ant 0 + 1 | |

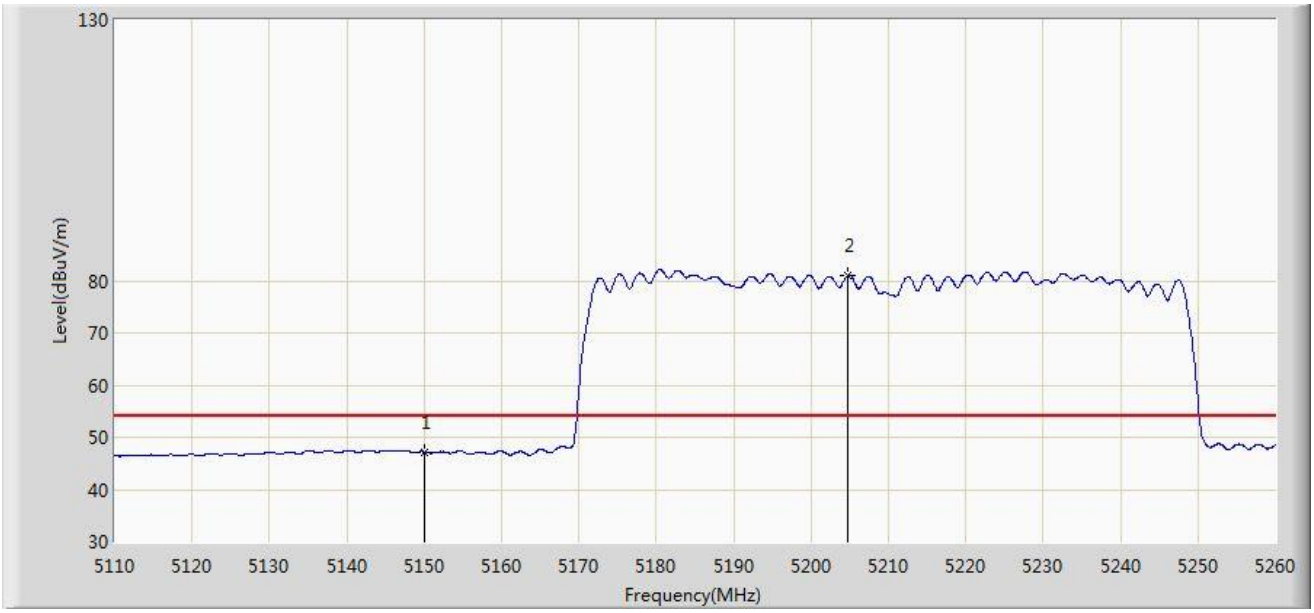



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5145.325 | 63.515 | 59.643 | -10.485 | 74.000 | 3.872 | PK |
| 2 | | | 5150.000 | 60.482 | 56.606 | -13.518 | 74.000 | 3.876 | PK |
| 3 | | * | 5199.925 | 96.319 | 92.401 | N/A | N/A | 3.918 | PK |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

| | |
|---|---|
| Site: AC1 | Time: 2019/07/02 - 04:48 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Kevin Ker |
| Probe: BBHA 9120D_1-18GHz | Polarity: Vertical |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11ax-HE80 at channel 5210MHz Ant 0 + 1 | |

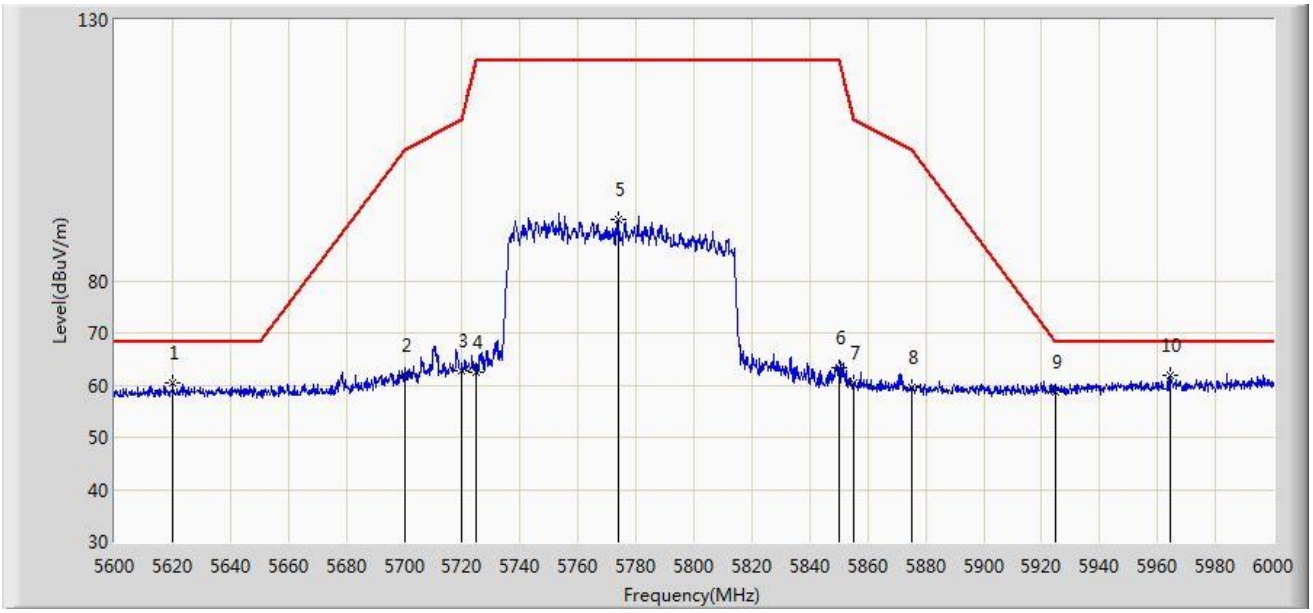



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5150.000 | 47.239 | 43.363 | -6.761 | 54.000 | 3.876 | AV |
| 2 | | * | 5204.800 | 81.095 | 77.173 | N/A | N/A | 3.922 | AV |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

| | |
|---|---|
| Site: AC1 | Time: 2019/06/28 - 05:16 |
| Limit: FCC_Part15.407_Band Edge(3m) | Engineer: Kevin Ker |
| Probe: BBHA 9120D_1-18GHz | Polarity: Horizontal |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11ax-HE80 at channel 5775MHz Ant 0 + 1 | |

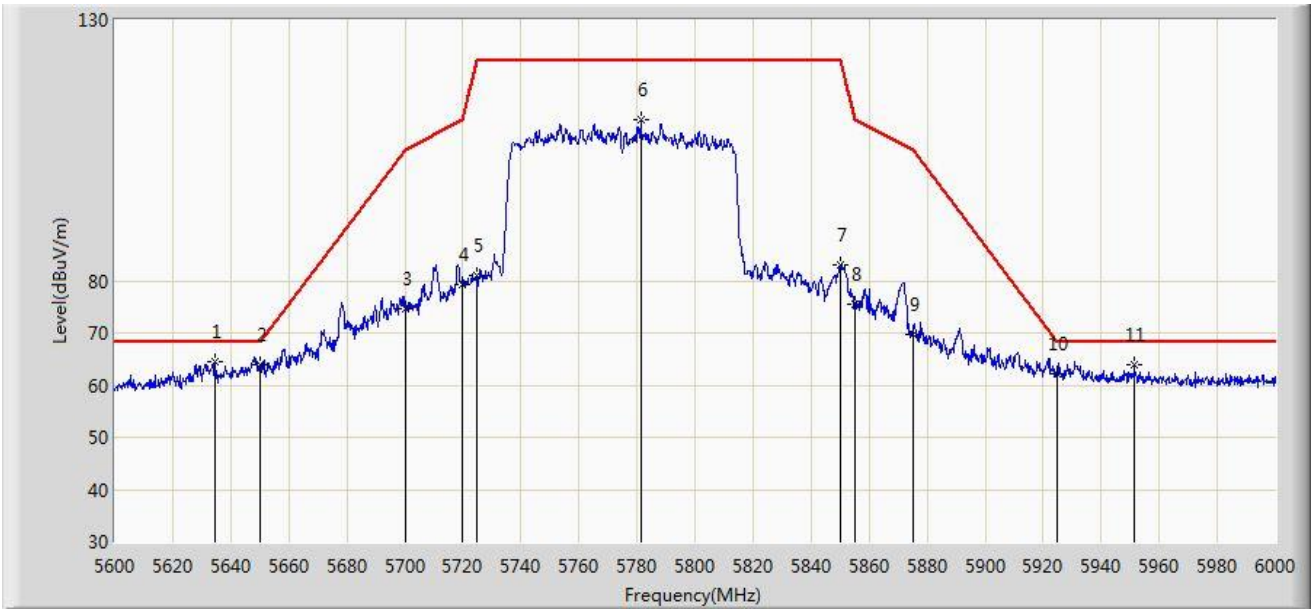



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5620.000 | 60.364 | 55.733 | -7.836 | 68.200 | 4.631 | PK |
| 2 | | | 5700.000 | 61.774 | 56.836 | -43.426 | 105.200 | 4.938 | PK |
| 3 | | | 5720.000 | 62.860 | 57.845 | -47.940 | 110.800 | 5.015 | PK |
| 4 | | | 5725.000 | 62.491 | 57.457 | -59.709 | 122.200 | 5.034 | PK |
| 5 | | | 5773.800 | 91.651 | 86.429 | N/A | N/A | 5.221 | PK |
| 6 | | | 5850.000 | 63.391 | 57.877 | -58.809 | 122.200 | 5.514 | PK |
| 7 | | | 5855.000 | 60.414 | 54.881 | -50.386 | 110.800 | 5.533 | PK |
| 8 | | | 5875.000 | 59.606 | 53.996 | -45.594 | 105.200 | 5.610 | PK |
| 9 | | | 5925.000 | 58.703 | 52.901 | -9.497 | 68.200 | 5.802 | PK |
| 10 | | * | 5964.400 | 62.003 | 56.049 | -6.197 | 68.200 | 5.953 | PK |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

| | |
|---|---|
| Site: AC1 | Time: 2019/06/28 - 05:18 |
| Limit: FCC_Part15.407_Band Edge(3m) | Engineer: Kevin Ker |
| Probe: BBHA 9120D_1-18GHz | Polarity: Vertical |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11ax-HE80 at channel 5775MHz Ant 0 + 1 | |



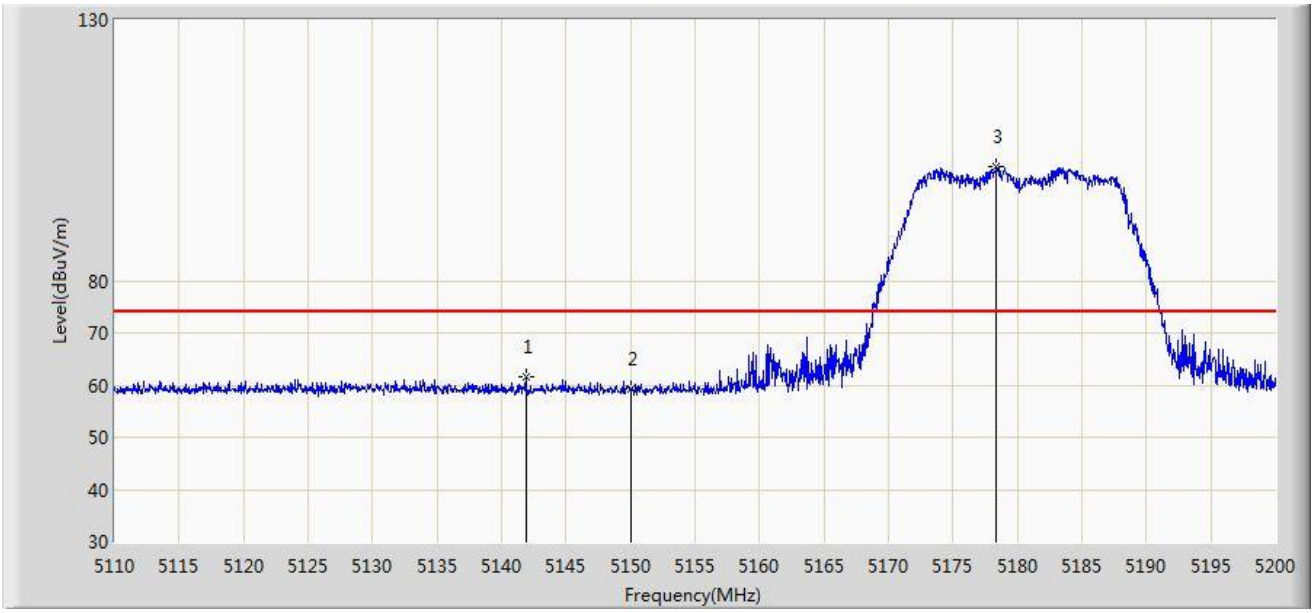

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 5634.600 | 64.362 | 59.675 | -3.838 | 68.200 | 4.686 | PK |
| 2 | | | 5650.000 | 63.815 | 59.069 | -4.385 | 68.200 | 4.746 | PK |
| 3 | | | 5700.000 | 74.735 | 69.797 | -30.465 | 105.200 | 4.938 | PK |
| 4 | | | 5720.000 | 79.373 | 74.358 | -31.427 | 110.800 | 5.015 | PK |
| 5 | | | 5725.000 | 80.978 | 75.944 | -41.222 | 122.200 | 5.034 | PK |
| 6 | | | 5781.400 | 110.858 | 105.607 | N/A | N/A | 5.251 | PK |
| 7 | | | 5850.000 | 83.175 | 77.661 | -39.025 | 122.200 | 5.514 | PK |
| 8 | | | 5855.000 | 75.566 | 70.033 | -35.234 | 110.800 | 5.533 | PK |
| 9 | | | 5875.000 | 69.606 | 63.996 | -35.594 | 105.200 | 5.610 | PK |
| 10 | | | 5925.000 | 62.158 | 56.356 | -6.042 | 68.200 | 5.802 | PK |
| 11 | | | 5951.400 | 63.808 | 57.904 | -4.392 | 68.200 | 5.903 | PK |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

**For APIN0504 Omni Antenna (AP-ANT-19):**

| | |
|---|---|
| Site: AC1 | Time: 2019/06/28 - 22:35 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Kevin Ker |
| Probe: BBHA 9120D_1-18GHz | Polarity: Horizontal |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11 a at channel 5180MHz Ant 0 + 1 | |

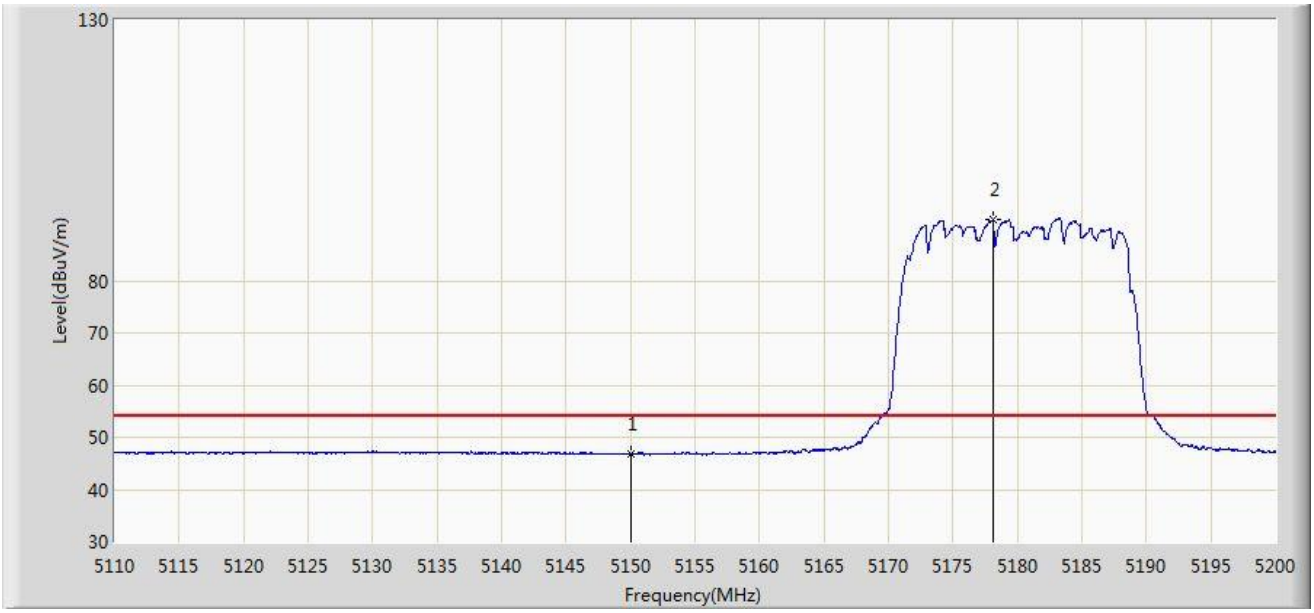



| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|
| 1 | | 5141.905 | 61.669 | 57.800 | -12.331 | 74.000 | 3.869 | PK |
| 2 | | 5150.000 | 59.297 | 55.421 | -14.703 | 74.000 | 3.876 | PK |
| 3 | * | 5178.400 | 101.971 | 98.071 | N/A | N/A | 3.900 | PK |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

| | |
|---|---|
| Site: AC1 | Time: 2019/06/28 - 22:37 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Kevin Ker |
| Probe: BBHA 9120D_1-18GHz | Polarity: Horizontal |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11 a at channel 5180MHz Ant 0 + 1 | |

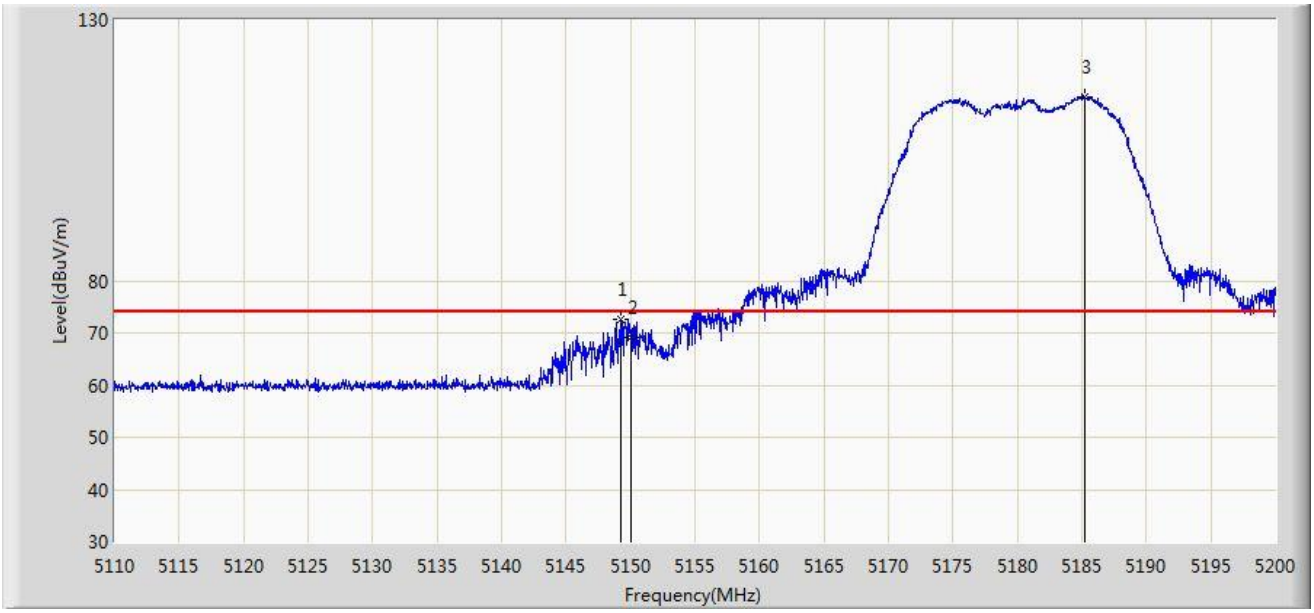



| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|
| 1 | | 5150.000 | 46.801 | 42.925 | -7.199 | 54.000 | 3.876 | AV |
| 2 | * | 5178.130 | 91.649 | 87.749 | N/A | N/A | 3.900 | AV |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

| | |
|---|---|
| Site: AC1 | Time: 2019/06/28 - 22:32 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Kevin Ker |
| Probe: BBHA 9120D_1-18GHz | Polarity: Vertical |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11 a at channel 5180MHz Ant 0 + 1 | |

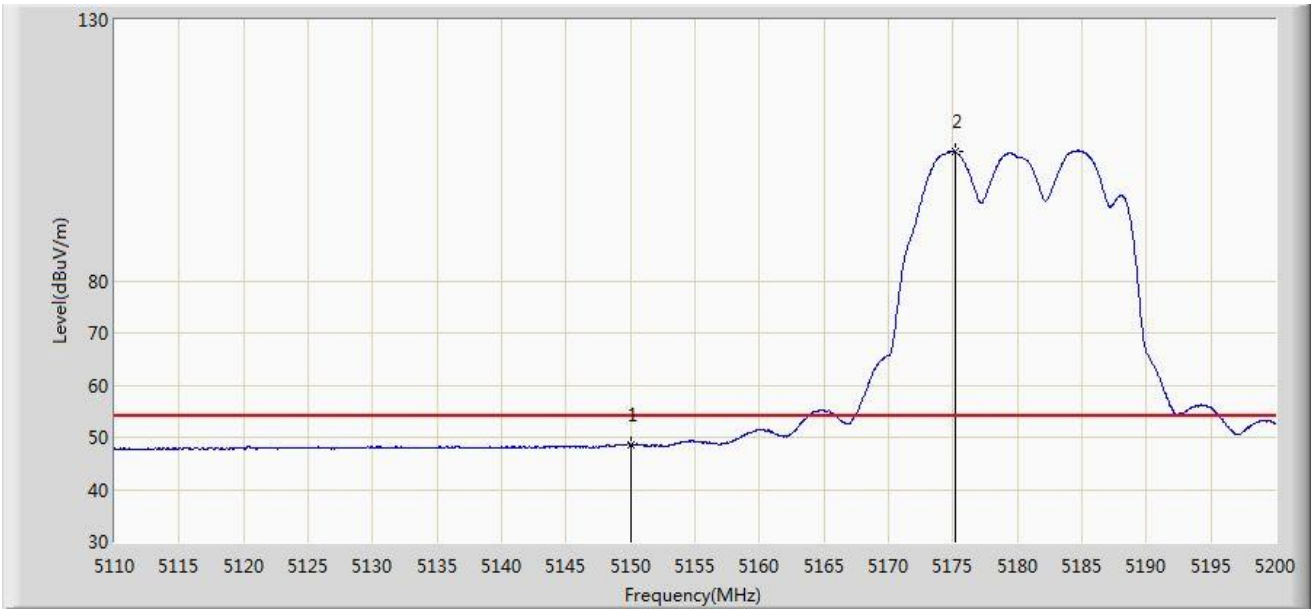



| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|
| 1 | | 5149.195 | 72.481 | 68.606 | -1.519 | 74.000 | 3.875 | PK |
| 2 | | 5150.000 | 69.176 | 65.300 | -4.824 | 74.000 | 3.876 | PK |
| 3 | * | 5185.240 | 115.287 | 111.381 | N/A | N/A | 3.906 | PK |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

| | |
|---|---|
| Site: AC1 | Time: 2019/06/28 - 22:34 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Kevin Ker |
| Probe: BBHA 9120D_1-18GHz | Polarity: Vertical |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11 a at channel 5180MHz Ant 0 + 1 | |

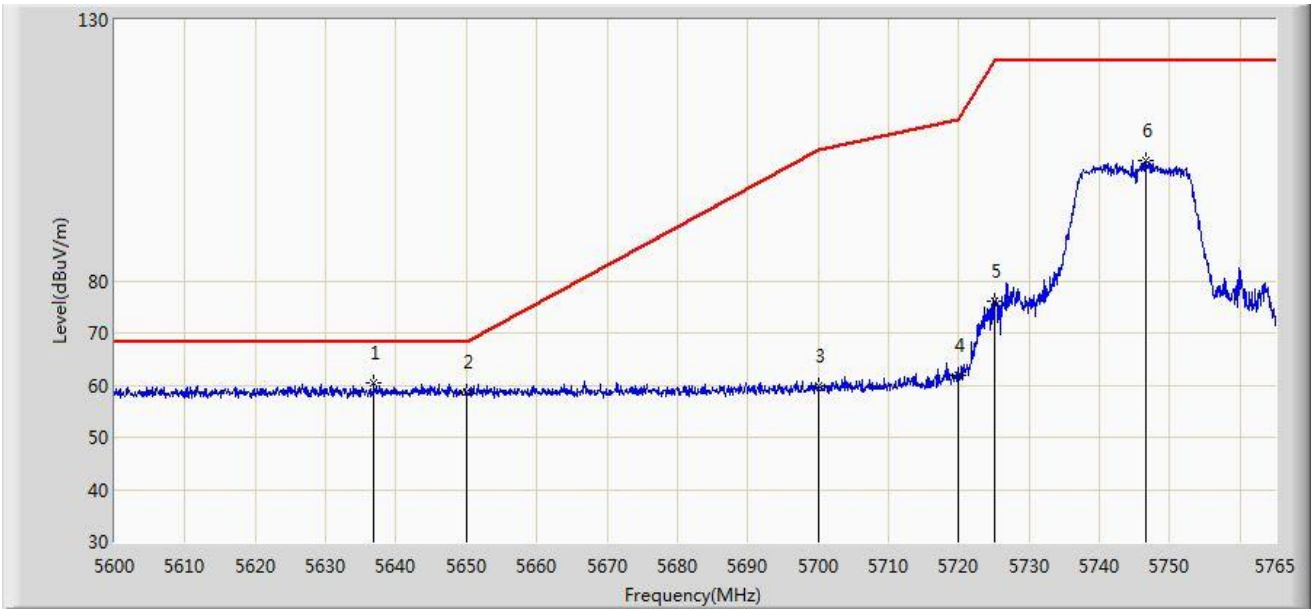



| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|
| 1 | | 5150.000 | 48.519 | 44.643 | -5.481 | 54.000 | 3.876 | AV |
| 2 | * | 5175.160 | 104.773 | 100.876 | N/A | N/A | 3.897 | AV |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

| | |
|---|---|
| Site: AC1 | Time: 2019/06/28 - 22:56 |
| Limit: FCC_Part15.407_Band Edge(3m) | Engineer: Kevin Ker |
| Probe: BBHA 9120D_1-18GHz | Polarity: Horizontal |
| EUT: ACCESS POINT | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11 a at channel 5745MHz Ant 0 + 1 | |




| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|
| 1 | * | 5636.877 | 60.571 | 55.875 | -7.629 | 68.200 | 4.695 | PK |
| 2 | | 5650.000 | 58.787 | 54.041 | -9.413 | 68.200 | 4.746 | PK |
| 3 | | 5700.000 | 59.778 | 54.840 | -45.422 | 105.200 | 4.938 | PK |
| 4 | | 5720.000 | 62.018 | 57.003 | -48.782 | 110.800 | 5.015 | PK |
| 5 | | 5725.000 | 75.977 | 70.943 | -46.223 | 122.200 | 5.034 | PK |
| 6 | | 5746.685 | 103.047 | 97.930 | N/A | N/A | 5.117 | PK |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).