

## 7.9 Radiated Spurious Emissions and Band-edge

**Test site/setup:** Measurement Distance: 3m (Semi-Anechoic Chamber)

Test instrumentation set-up:

| Frequency Range(MHz) | Detector   | RBW      | VBW      |
|----------------------|------------|----------|----------|
| 0.009-0.090          | Peak       | 10kHz    | 30kHz    |
| 0.009-0.090          | Average    | 10kHz    | 30kHz    |
| 0.090-0.110          | Quasi-peak | 10kHz    | 30kHz    |
| 0.110-0.490MHz       | Peak       | 10kHz    | 30kHz    |
| 0.110-0.490          | Average    | 10kHz    | 30kHz    |
| 0.490 -30            | Quasi-peak | 10kHz    | 30kHz    |
| 30-1000              | Quasi-peak | 100kHz   | 300kHz   |
| Above 1000           | Peak       | RBW=1MHz | VBW≥RBW  |
|                      | Average    |          | VBW=10Hz |

Sweep=Auto

**15.209 Limit:**

| Frequency(MHz) | Limit (dBuV/m) |
|----------------|----------------|
| 0.009-0.490    | 128.5 ~ 93.8   |
| 0.490-1.705    | 73.8 ~63.0     |
| 1.705-30       | 69.5           |
| 30-88          | 40.0           |
| 88-216         | 43.5           |
| 216-960        | 46.0           |
| 960-1000       | 54.0           |
| Above 1000     | 54.0           |

Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

**15.407 Limit:**

| Operation Frequency (MHz) | EIRP Limit (dBm/MHz) | Equivalent Field Strength (dBuV/m) |
|---------------------------|----------------------|------------------------------------|
| 5150-5250                 | -27                  | 68.3                               |
| 5250-5350                 |                      |                                    |
| 5470-5725                 |                      |                                    |
| 5725-5850                 | -27* <sup>1</sup>    | 68.3* <sup>1</sup>                 |
|                           | -17* <sup>2</sup>    | 78.3* <sup>2</sup>                 |

Note: The following formula is used to convert the EIRP to field strength

$$E = \frac{1000000 \sqrt{30P}}{3} \text{ uV/m, where P is the EIRP (Watts).}$$

Remark: \*<sup>1</sup> Without 10MHz of band edge; \*<sup>2</sup> Within 10MHz of band edge

### Test Setup:

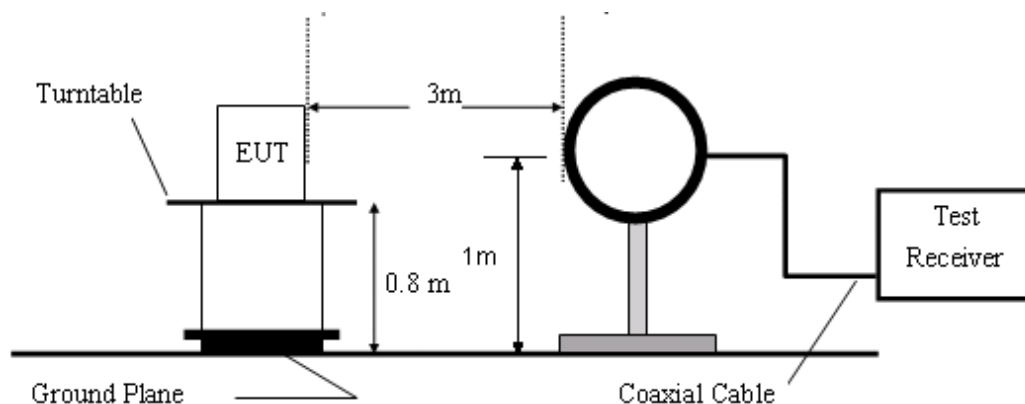


Figure1. Below 30MHz radiated emissions test configuration

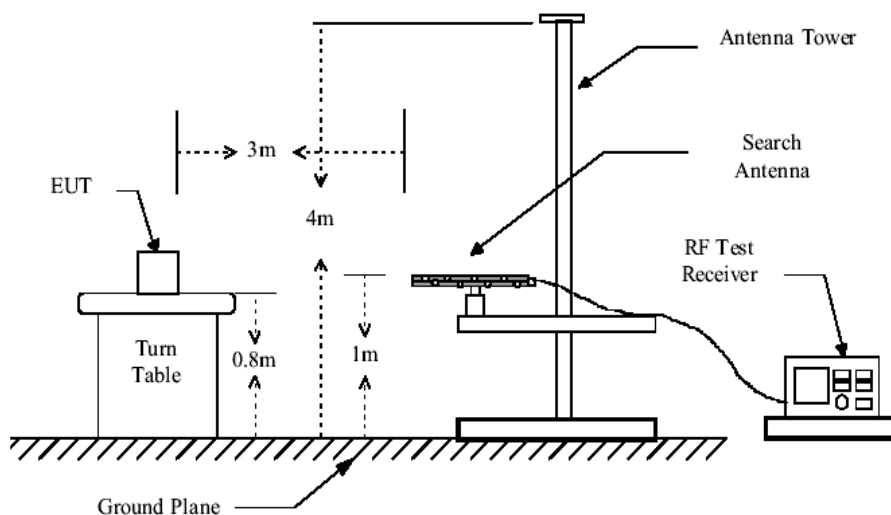


Figure2. 30MHz to 1GHz radiated emissions test configuration

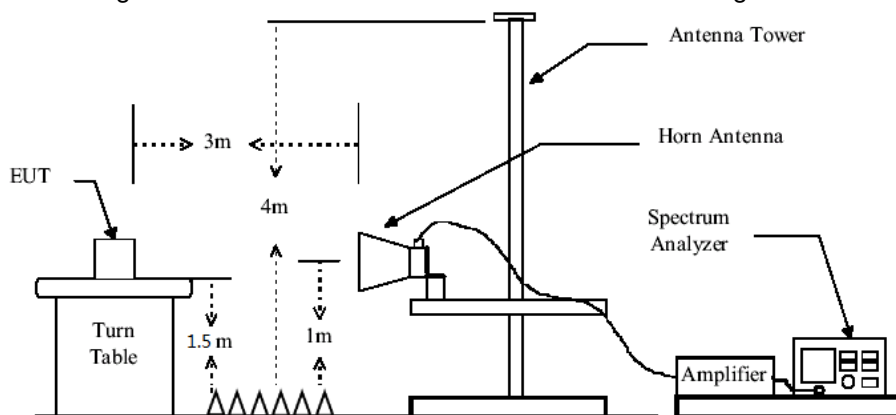


Figure3. Above 1GHz radiated emissions test configuration

- Test Procedure:**
- 1) The procedure used was ANSI Standard C63.10. When an emission was found, the table was rotated to produce the maximum signal strength. An initial pre-scan was performed for in peak detection mode using the receiver. The EUT was measured for both the Horizontal and Vertical polarities and performed a pre-test three orthogonal planes. For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. The worst case emissions were reported.
  - 2) Low noise amplifier was used below 1GHz, High pass Filter and amplifier was used above 3GHz. We did not use any amplifier or filter between 1G and 3GHz.
  - 3) Test were performed for their spatial orthogonal(X, Y, Z), the worst test data (X orthogonal) was submitted.
    - a) For this intentional radiator operates below 25 GHz. the spectrum shall be investigated to the tenth harmonic of the highest fundamental frequency. And above the third harmonic of this intentional radiator, the disturbance is very low. So the test result only displays to 5rd harmonic.
    - b) As shown in Section, for frequencies above 1000MHz. the above field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.
  - 4) Pretest under all modes during 30MHz to 1GHz; choose the worst case mode (Middle channel of 802.11a on band 1) record on the report.
  - 5) No spurious emissions were detected within 20dB of limit below 30MHz.

**Test Result:** Pass

## 7.9.1 Radiated Spurious Emissions

30MHz-1GHz:

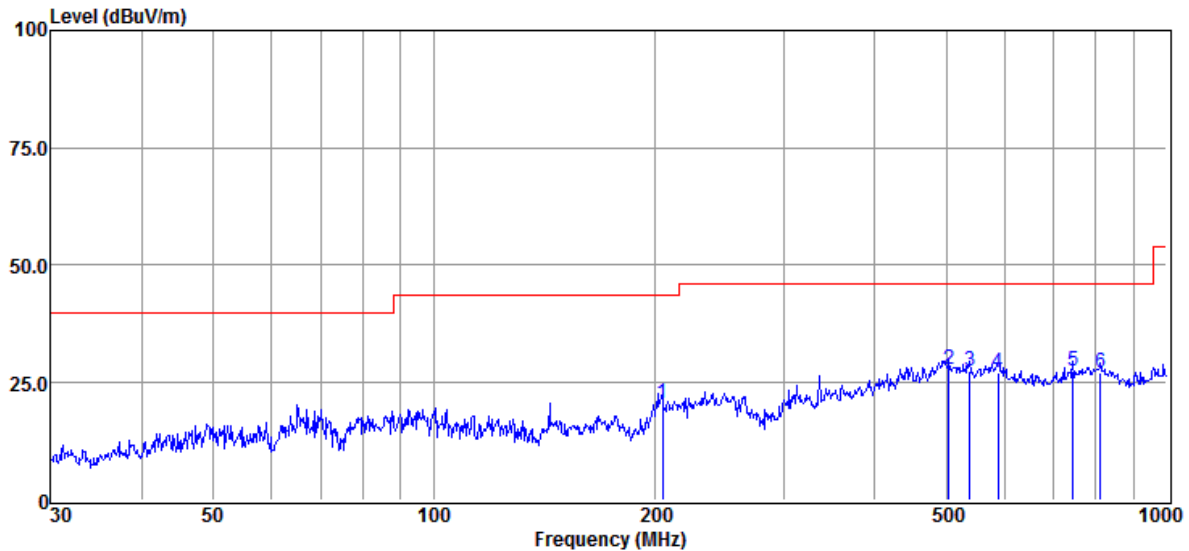
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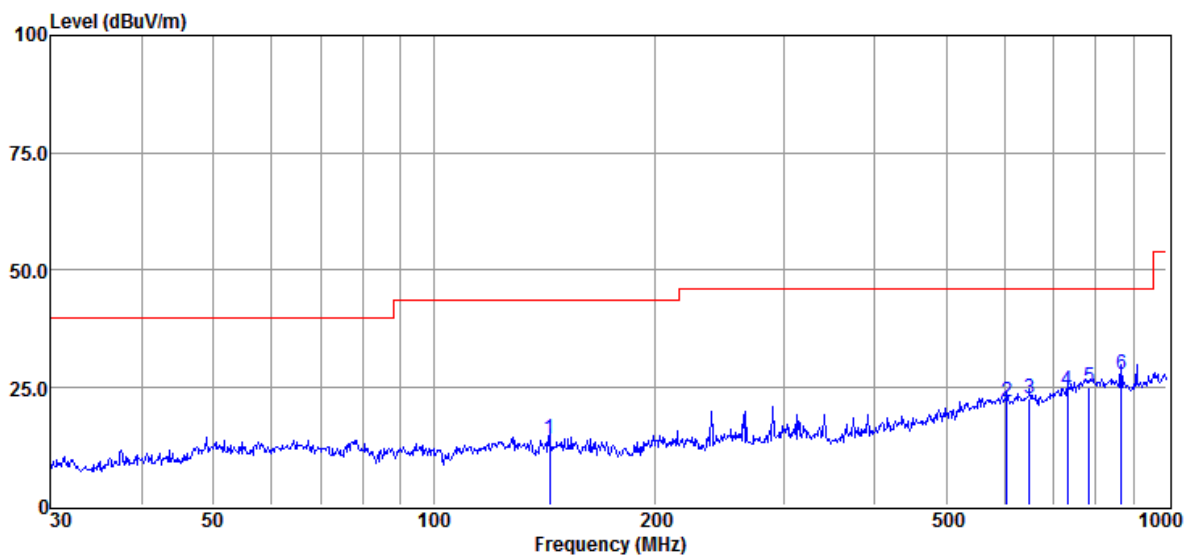
| Item   | Freq.  | Read Level | Antenna Factor | Preamp Factor | Cable Loss | Result Level | Limit Line | Over Limit | Detector | Polarization |
|--------|--------|------------|----------------|---------------|------------|--------------|------------|------------|----------|--------------|
| (Mark) | (MHz)  | (dBμV)     | (dB/m)         | (dB)          | (dB)       | (dBμV/m)     | (dBμV/m)   | (dB)       |          |              |
| 1      | 144.05 | 43.81      | 12.50          | 43.50         | 1.34       | 14.15        | 43.50      | -29.35     | QP       | Horizontal   |
| 2      | 605.95 | 41.92      | 20.19          | 43.13         | 3.06       | 22.04        | 46.00      | -23.96     | QP       | Horizontal   |
| 3      | 649.61 | 42.25      | 20.40          | 43.11         | 3.20       | 22.74        | 46.00      | -23.26     | QP       | Horizontal   |
| 4      | 731.16 | 42.60      | 21.34          | 43.08         | 3.45       | 24.31        | 46.00      | -21.69     | QP       | Horizontal   |
| 5      | 783.84 | 41.21      | 23.23          | 43.06         | 3.59       | 24.97        | 46.00      | -21.03     | QP       | Horizontal   |
| 6      | 867.04 | 43.88      | 23.21          | 43.04         | 3.80       | 27.85        | 46.00      | -18.15     | QP       | Horizontal   |
| 1      | 205.22 | 52.07      | 10.49          | 43.41         | 1.64       | 20.79        | 43.50      | -22.71     | QP       | Vertical     |
| 2      | 504.23 | 50.99      | 17.31          | 43.18         | 2.78       | 27.90        | 46.00      | -18.10     | QP       | Vertical     |
| 3      | 538.46 | 48.98      | 18.80          | 43.16         | 2.86       | 27.48        | 46.00      | -18.52     | QP       | Vertical     |
| 4      | 589.11 | 47.07      | 20.30          | 43.14         | 3.00       | 27.23        | 46.00      | -18.77     | QP       | Vertical     |
| 5      | 745.25 | 45.20      | 21.81          | 43.08         | 3.49       | 27.42        | 46.00      | -18.58     | QP       | Vertical     |
| 6      | 812.54 | 43.00      | 23.63          | 43.05         | 3.66       | 27.24        | 46.00      | -18.76     | QP       | Vertical     |

Remark: 1. Result Level = Read Level + Antenna Factor + Cable loss - Preamp Factor

Below is the plot of worst case:  
Vertical:



Horizontal:



Above 1GHz

**802.11a**

**Channel: 36**

| Mark | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Emission (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Polarization |
|------|-----------------|----------------|-------------|-------------------|----------------|-----------------|----------|--------------|
| 1    | 6892            | 38.79          | 9.35        | 48.14             | 54             | -5.86           | peak     | Horizontal   |
| 2    | 9244            | 36.55          | 14.16       | 50.71             | 54             | -3.29           | peak     | Horizontal   |
| 3    | 10360           | 36.16          | 14.28       | 50.44             | 54             | -3.56           | peak     | Horizontal   |
| 4    | 8152            | 39.28          | 11.68       | 50.96             | 54             | -3.04           | peak     | Vertical     |
| 5    | 9100            | 36.48          | 13.91       | 50.39             | 54             | -3.61           | peak     | Vertical     |
| 6    | 10360           | 37.10          | 14.28       | 51.38             | 54             | -2.62           | peak     | Vertical     |

**802.11a**

**Channel: 40**

| Mark | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Emission (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Polarization |
|------|-----------------|----------------|-------------|-------------------|----------------|-----------------|----------|--------------|
| 1    | 6748            | 39.52          | 8.85        | 48.37             | 54             | -5.63           | peak     | Horizontal   |
| 2    | 8524            | 39.28          | 12.23       | 51.51             | 54             | -2.49           | peak     | Horizontal   |
| 3    | 10400           | 35.98          | 14.22       | 50.20             | 54             | -3.80           | peak     | Horizontal   |
| 4    | 8872            | 37.32          | 13.32       | 50.64             | 54             | -3.36           | peak     | Vertical     |
| 5    | 9364            | 36.95          | 14.36       | 51.31             | 54             | -2.69           | peak     | Vertical     |
| 6    | 10400           | 36.01          | 14.22       | 50.23             | 54             | -3.77           | peak     | Vertical     |

**802.11a**

**Channel: 48**

| Mark | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Emission (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Polarization |
|------|-----------------|----------------|-------------|-------------------|----------------|-----------------|----------|--------------|
| 1    | 7180            | 38.14          | 10.52       | 48.66             | 54             | -5.34           | peak     | Horizontal   |
| 2    | 9244            | 36.55          | 14.16       | 50.71             | 54             | -3.29           | peak     | Horizontal   |
| 3    | 10480           | 36.65          | 14.08       | 50.73             | 54             | -3.27           | peak     | Horizontal   |
| 4    | 8872            | 37.32          | 13.32       | 50.64             | 54             | -3.36           | peak     | Vertical     |
| 5    | 10480           | 36.25          | 14.08       | 50.33             | 54             | -3.67           | peak     | Vertical     |
| 6    | 11200           | 37.65          | 14.25       | 51.90             | 54             | -2.10           | peak     | Vertical     |

**802.11a**

**Channel: 149**

| Mark | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Emission (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Polarization |
|------|-----------------|----------------|-------------|-------------------|----------------|-----------------|----------|--------------|
| 1    | 6892            | 38.79          | 9.35        | 48.14             | 54             | -5.86           | peak     | Horizontal   |
| 2    | 9244            | 36.55          | 14.16       | 50.71             | 54             | -3.29           | peak     | Horizontal   |
| 3    | 10360           | 36.16          | 14.28       | 50.44             | 54             | -3.56           | peak     | Horizontal   |
| 4    | 8152            | 39.28          | 11.68       | 50.96             | 54             | -3.04           | peak     | Vertical     |
| 5    | 9100            | 36.48          | 13.91       | 50.39             | 54             | -3.61           | peak     | Vertical     |
| 6    | 10360           | 37.10          | 14.28       | 51.38             | 54             | -2.62           | peak     | Vertical     |

**802.11a**

**Channel: 157**

| Mark | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Emission (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Polarization |
|------|-----------------|----------------|-------------|-------------------|----------------|-----------------|----------|--------------|
| 1    | 6748            | 39.52          | 8.85        | 48.37             | 54             | -5.63           | peak     | Horizontal   |
| 2    | 8524            | 39.28          | 12.23       | 51.51             | 54             | -2.49           | peak     | Horizontal   |
| 3    | 10400           | 35.98          | 14.22       | 50.20             | 54             | -3.80           | peak     | Horizontal   |
| 4    | 8872            | 37.32          | 13.32       | 50.64             | 54             | -3.36           | peak     | Vertical     |
| 5    | 9364            | 36.95          | 14.36       | 51.31             | 54             | -2.69           | peak     | Vertical     |
| 6    | 10400           | 36.01          | 14.22       | 50.23             | 54             | -3.77           | peak     | Vertical     |

**802.11a**

**Channel: 165**

| Mark | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Emission (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Polarization |
|------|-----------------|----------------|-------------|-------------------|----------------|-----------------|----------|--------------|
| 1    | 7180            | 38.14          | 10.52       | 48.66             | 54             | -5.34           | peak     | Horizontal   |
| 2    | 9244            | 36.55          | 14.16       | 50.71             | 54             | -3.29           | peak     | Horizontal   |
| 3    | 10480           | 36.65          | 14.08       | 50.73             | 54             | -3.27           | peak     | Horizontal   |
| 4    | 8872            | 37.32          | 13.32       | 50.64             | 54             | -3.36           | peak     | Vertical     |
| 5    | 10480           | 36.25          | 14.08       | 50.33             | 54             | -3.67           | peak     | Vertical     |
| 6    | 11200           | 37.65          | 14.25       | 51.90             | 54             | -2.10           | peak     | Vertical     |

**802.11 n(HT20)**

**Channel: 36**

| Mark | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Emission (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Polarization |
|------|-----------------|----------------|-------------|-------------------|----------------|-----------------|----------|--------------|
| 1    | 7072            | 38.83          | 10.05       | 48.88             | 54             | -5.12           | peak     | Horizontal   |
| 2    | 9124            | 36.41          | 13.95       | 50.36             | 54             | -3.64           | peak     | Horizontal   |
| 3    | 10360           | 36.51          | 14.28       | 50.79             | 54             | -3.21           | peak     | Horizontal   |
| 4    | 8932            | 38.93          | 13.52       | 52.45             | 54             | -1.55           | peak     | Vertical     |
| 5    | 10360           | 37.12          | 14.28       | 51.40             | 54             | -2.60           | peak     | Vertical     |
| 6    | 11200           | 38.78          | 14.25       | 53.03             | 54             | -0.97           | peak     | Vertical     |

**802.11 n(HT20)**

**Channel: 40**

| Mark | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Emission (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Polarization |
|------|-----------------|----------------|-------------|-------------------|----------------|-----------------|----------|--------------|
| 1    | 8320            | 38.88          | 11.81       | 50.69             | 54             | -3.31           | peak     | Horizontal   |
| 2    | 9124            | 36.41          | 13.95       | 50.36             | 54             | -3.64           | peak     | Horizontal   |
| 3    | 10400           | 35.77          | 14.22       | 49.99             | 54             | -4.01           | peak     | Horizontal   |
| 4    | 6988            | 40.13          | 9.68        | 49.81             | 54             | -4.19           | peak     | Vertical     |
| 5    | 8416            | 39.83          | 12.00       | 51.83             | 54             | -2.17           | peak     | Vertical     |
| 6    | 10400           | 37.80          | 14.22       | 52.02             | 54             | -1.98           | peak     | Vertical     |

**802.11 n(HT20)**

**Channel: 48**

| Mark | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Emission (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Polarization |
|------|-----------------|----------------|-------------|-------------------|----------------|-----------------|----------|--------------|
| 1    | 7168            | 38.18          | 10.46       | 48.64             | 54             | -5.36           | peak     | Horizontal   |
| 2    | 9040            | 36.82          | 13.81       | 50.63             | 54             | -3.37           | peak     | Horizontal   |
| 3    | 10480           | 36.74          | 14.08       | 50.82             | 54             | -3.18           | peak     | Horizontal   |
| 4    | 8416            | 39.83          | 12.00       | 51.83             | 54             | -2.17           | peak     | Vertical     |
| 5    | 10480           | 38.15          | 14.08       | 52.23             | 54             | -1.77           | peak     | Vertical     |
| 6    | 10792           | 38.47          | 14.41       | 52.88             | 54             | -1.12           | peak     | Vertical     |

**802.11 n(HT20)**

**Channel: 149**

| Mark | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Emission (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Polarization |
|------|-----------------|----------------|-------------|-------------------|----------------|-----------------|----------|--------------|
| 1    | 8944            | 37.55          | 13.55       | 51.10             | 54             | -2.90           | peak     | Horizontal   |
| 2    | 10420           | 37.06          | 14.17       | 51.23             | 54             | -2.77           | peak     | Horizontal   |
| 3    | 11490           | 37.29          | 14.41       | 51.70             | 54             | -2.30           | peak     | Horizontal   |
| 4    | 8932            | 36.00          | 13.52       | 49.52             | 54             | -4.48           | peak     | Vertical     |
| 5    | 9892            | 37.46          | 14.39       | 51.85             | 54             | -2.15           | peak     | Vertical     |
| 6    | 11490           | 36.87          | 14.41       | 51.28             | 54             | -2.72           | peak     | Vertical     |

**802.11 n(HT20)**

**Channel: 157**

| Mark | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Emission (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Polarization |
|------|-----------------|----------------|-------------|-------------------|----------------|-----------------|----------|--------------|
| 1    | 8428            | 38.85          | 12.03       | 50.88             | 54             | -3.12           | peak     | Horizontal   |
| 2    | 9040            | 36.82          | 13.81       | 50.63             | 54             | -3.37           | peak     | Horizontal   |
| 3    | 11570           | 37.52          | 14.25       | 51.77             | 54             | -2.23           | peak     | Horizontal   |
| 4    | 9100            | 35.35          | 13.91       | 49.26             | 54             | -4.74           | peak     | Vertical     |
| 5    | 10372           | 35.96          | 14.26       | 50.22             | 54             | -3.78           | peak     | Vertical     |
| 6    | 11570           | 35.77          | 14.25       | 50.02             | 54             | -3.98           | peak     | Vertical     |

**802.11 n(HT20)**

**Channel: 165**

| Mark | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Emission (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Polarization |
|------|-----------------|----------------|-------------|-------------------|----------------|-----------------|----------|--------------|
| 1    | 9040            | 36.82          | 13.81       | 50.63             | 54             | -3.37           | peak     | Horizontal   |
| 2    | 9976            | 37.02          | 14.42       | 51.44             | 54             | -2.56           | peak     | Horizontal   |
| 3    | 11650           | 37.36          | 14.06       | 51.42             | 74             | -22.58          | peak     | Horizontal   |
| 4    | 8236            | 38.41          | 11.65       | 50.06             | 54             | -3.94           | peak     | Vertical     |
| 5    | 8932            | 36.00          | 13.52       | 49.52             | 54             | -4.48           | peak     | Vertical     |
| 6    | 11650           | 36.87          | 14.06       | 50.93             | 54             | -3.07           | peak     | Vertical     |

**802.11 n(HT40)**

**Channel: 38**

| Mark | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Emission (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Polarization |
|------|-----------------|----------------|-------------|-------------------|----------------|-----------------|----------|--------------|
| 1    | 8656            | 37.28          | 12.63       | 49.91             | 54             | -4.09           | peak     | Horizontal   |
| 2    | 9232            | 37.39          | 14.14       | 51.53             | 54             | -2.47           | peak     | Horizontal   |
| 3    | 10380           | 36.27          | 14.25       | 50.52             | 54             | -3.48           | peak     | Horizontal   |
| 4    | 6357            | 42.99          | 7.90        | 50.89             | 54             | -3.11           | peak     | Vertical     |
| 5    | 8689            | 37.70          | 12.74       | 50.44             | 54             | -3.56           | peak     | Vertical     |
| 6    | 10380           | 35.91          | 14.25       | 50.16             | 54             | -3.84           | peak     | Vertical     |

**802.11 n(HT40)**

**Channel: 46**

| Mark | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Emission (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Polarization |
|------|-----------------|----------------|-------------|-------------------|----------------|-----------------|----------|--------------|
| 1    | 8740            | 37.28          | 12.89       | 50.17             | 54             | -3.83           | peak     | Horizontal   |
| 2    | 9160            | 36.54          | 14.02       | 50.56             | 54             | -3.44           | peak     | Horizontal   |
| 3    | 10460           | 36.96          | 14.11       | 51.07             | 54             | -2.93           | peak     | Horizontal   |
| 4    | 6412            | 42.41          | 8.11        | 50.52             | 54             | -3.48           | peak     | Vertical     |
| 5    | 8502            | 38.43          | 12.16       | 50.59             | 54             | -3.41           | peak     | Vertical     |
| 6    | 10460           | 35.24          | 14.11       | 49.35             | 54             | -4.65           | peak     | Vertical     |

**802.11 n(HT40)**

**Channel: 151**

| Mark | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Emission (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Polarization |
|------|-----------------|----------------|-------------|-------------------|----------------|-----------------|----------|--------------|
| 1    | 8284            | 39.92          | 11.74       | 51.66             | 54             | -2.34           | peak     | Horizontal   |
| 2    | 8932            | 37.29          | 13.52       | 50.81             | 54             | -3.19           | peak     | Horizontal   |
| 3    | 11510           | 38.09          | 14.4        | 52.49             | 54             | -1.51           | peak     | Horizontal   |
| 4    | 7512            | 38.78          | 11.92       | 50.70             | 54             | -3.30           | peak     | Vertical     |
| 5    | 8755            | 36.87          | 12.94       | 49.81             | 54             | -4.19           | peak     | Vertical     |
| 6    | 11510           | 35.19          | 14.40       | 49.59             | 54             | -4.41           | peak     | Vertical     |

**802.11 n(HT40)**

**Channel: 159**

| Mark | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Emission (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Polarization |
|------|-----------------|----------------|-------------|-------------------|----------------|-----------------|----------|--------------|
| 1    | 8536            | 39.11          | 12.27       | 51.38             | 54             | -2.62           | peak     | Horizontal   |
| 2    | 10384           | 38.36          | 14.23       | 52.59             | 54             | -1.41           | peak     | Horizontal   |
| 3    | 11590           | 38.12          | 14.2        | 52.32             | 54             | -1.68           | peak     | Horizontal   |
| 4    | 8755            | 36.87          | 12.94       | 49.81             | 54             | -4.19           | peak     | Vertical     |
| 5    | 10152           | 36.75          | 14.40       | 51.15             | 54             | -2.85           | peak     | Vertical     |
| 6    | 11590           | 36.31          | 14.20       | 50.51             | 54             | -3.49           | peak     | Vertical     |

**802.11 ac(VHT20)**

**Channel: 36**

| Mark | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Emission (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Polarization |
|------|-----------------|----------------|-------------|-------------------|----------------|-----------------|----------|--------------|
| 1    | 8680            | 36.85          | 12.71       | 49.56             | 54             | -4.44           | peak     | Horizontal   |
| 2    | 9088            | 36.2           | 13.89       | 50.09             | 54             | -3.91           | peak     | Horizontal   |
| 3    | 10360           | 35.91          | 14.28       | 50.19             | 54             | -3.81           | peak     | Horizontal   |
| 4    | 9016            | 35.82          | 13.77       | 49.59             | 54             | -4.41           | peak     | Vertical     |
| 5    | 10360           | 35.06          | 14.28       | 49.34             | 54             | -4.66           | peak     | Vertical     |
| 6    | 10660           | 37.68          | 14.17       | 51.85             | 54             | -2.15           | peak     | Vertical     |

**802.11 ac(VHT20)**

**Channel: 40**

| Mark | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Emission (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Polarization |
|------|-----------------|----------------|-------------|-------------------|----------------|-----------------|----------|--------------|
| 1    | 8680            | 36.85          | 12.71       | 49.56             | 54             | -4.44           | peak     | Horizontal   |
| 2    | 9160            | 36.56          | 14.02       | 50.58             | 54             | -3.42           | peak     | Horizontal   |
| 3    | 10400           | 37.63          | 14.22       | 51.85             | 54             | -2.15           | peak     | Horizontal   |
| 4    | 8368            | 38.01          | 11.91       | 49.92             | 54             | -4.08           | peak     | Vertical     |
| 5    | 9124            | 36.45          | 13.95       | 50.40             | 54             | -3.60           | peak     | Vertical     |
| 6    | 10400           | 35.51          | 14.22       | 49.73             | 54             | -4.27           | peak     | Vertical     |

**802.11 ac(VHT20)**

**Channel: 48**

| Mark | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Emission (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Polarization |
|------|-----------------|----------------|-------------|-------------------|----------------|-----------------|----------|--------------|
| 1    | 7168            | 38.12          | 10.46       | 48.58             | 54             | -5.42           | peak     | Horizontal   |
| 2    | 8236            | 38.51          | 11.65       | 50.16             | 54             | -3.84           | peak     | Horizontal   |
| 3    | 10480           | 36.82          | 14.08       | 50.90             | 54             | -3.10           | peak     | Horizontal   |
| 4    | 8812            | 37.72          | 13.10       | 50.82             | 54             | -3.18           | peak     | Vertical     |
| 5    | 10024           | 37.19          | 14.41       | 51.60             | 54             | -2.40           | peak     | Vertical     |
| 6    | 10480           | 36.51          | 14.08       | 50.59             | 54             | -3.41           | peak     | Vertical     |

**802.11 ac(VHT20)**

**Channel: 149**

| Mark | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Emission (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Polarization |
|------|-----------------|----------------|-------------|-------------------|----------------|-----------------|----------|--------------|
| 1    | 8236            | 38.51          | 11.65       | 50.16             | 54             | -3.84           | peak     | Horizontal   |
| 2    | 9088            | 36.20          | 13.89       | 50.09             | 54             | -3.91           | peak     | Horizontal   |
| 3    | 11490           | 37.21          | 14.41       | 51.62             | 54             | -2.38           | peak     | Horizontal   |
| 4    | 10216           | 37.12          | 14.40       | 51.52             | 54             | -2.48           | peak     | Vertical     |
| 5    | 11490           | 38.65          | 14.41       | 53.06             | 54             | -0.94           | peak     | Vertical     |
| 6    | 12340           | 38.36          | 14.08       | 52.44             | 54             | -1.56           | peak     | Vertical     |

**802.11 ac(VHT20)**

**Channel: 157**

| Mark | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Emission (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Polarization |
|------|-----------------|----------------|-------------|-------------------|----------------|-----------------|----------|--------------|
| 1    | 9160            | 36.56          | 14.02       | 50.58             | 54             | -3.42           | peak     | Horizontal   |
| 2    | 10036           | 37.89          | 14.42       | 52.31             | 54             | -1.69           | peak     | Horizontal   |
| 3    | 11570           | 36.55          | 14.25       | 50.80             | 54             | -3.20           | peak     | Horizontal   |
| 4    | 9364            | 37.83          | 14.36       | 52.19             | 54             | -1.81           | peak     | Vertical     |
| 5    | 10144           | 37.84          | 14.40       | 52.24             | 54             | -1.76           | peak     | Vertical     |
| 6    | 11570           | 38.19          | 14.25       | 52.44             | 54             | -1.56           | peak     | Vertical     |

**802.11 ac(VHT20)**

**Channel: 165**

| Mark | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Emission (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Polarization |
|------|-----------------|----------------|-------------|-------------------|----------------|-----------------|----------|--------------|
| 1    | 8752            | 36.88          | 12.92       | 49.80             | 54             | -4.20           | peak     | Horizontal   |
| 2    | 9220            | 37.08          | 14.12       | 51.20             | 54             | -2.80           | peak     | Horizontal   |
| 3    | 11650           | 38.09          | 14.06       | 52.15             | 54             | -1.85           | peak     | Horizontal   |
| 4    | 8752            | 37.99          | 12.92       | 50.91             | 54             | -3.09           | peak     | Vertical     |
| 5    | 9136            | 37.14          | 13.97       | 51.11             | 54             | -2.89           | peak     | Vertical     |
| 6    | 11650           | 37.59          | 14.06       | 51.65             | 54             | -2.35           | peak     | Vertical     |

**802.11 ac(VHT40)**

**Channel: 38**

| Mark | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Emission (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Polarization |
|------|-----------------|----------------|-------------|-------------------|----------------|-----------------|----------|--------------|
| 1    | 5896            | 38.20          | 6.61        | 44.81             | 54             | -9.19           | peak     | Horizontal   |
| 2    | 8536            | 38.03          | 12.27       | 50.30             | 54             | -3.70           | peak     | Horizontal   |
| 3    | 10380           | 35.92          | 14.25       | 50.17             | 54             | -3.83           | peak     | Horizontal   |
| 4    | 7380            | 40.32          | 11.38       | 51.70             | 54             | -2.30           | peak     | Vertical     |
| 5    | 8953            | 36.39          | 13.58       | 49.97             | 54             | -4.03           | peak     | Vertical     |
| 6    | 10380           | 35.41          | 14.25       | 49.66             | 54             | -4.34           | peak     | Vertical     |

**802.11 ac(VHT40)**

**Channel: 46**

| Mark | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Emission (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Polarization |
|------|-----------------|----------------|-------------|-------------------|----------------|-----------------|----------|--------------|
| 1    | 8116            | 38.63          | 11.75       | 50.38             | 54             | -3.62           | peak     | Horizontal   |
| 2    | 8944            | 37.71          | 13.55       | 51.26             | 54             | -2.74           | peak     | Horizontal   |
| 3    | 10460           | 37.01          | 14.11       | 51.12             | 54             | -2.88           | peak     | Horizontal   |
| 4    | 6401            | 43.27          | 8.08        | 51.35             | 54             | -2.65           | peak     | Vertical     |
| 5    | 8645            | 38.59          | 12.60       | 51.19             | 54             | -2.81           | peak     | Vertical     |
| 6    | 10460           | 36.49          | 14.11       | 50.60             | 54             | -3.40           | peak     | Vertical     |

**802.11 ac(VHT40)**

**Channel: 151**

| Mark | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Emission (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Polarization |
|------|-----------------|----------------|-------------|-------------------|----------------|-----------------|----------|--------------|
| 1    | 8116            | 39.76          | 11.75       | 51.51             | 54             | -2.49           | peak     | Horizontal   |
| 2    | 9172            | 36.82          | 14.03       | 50.85             | 54             | -3.15           | peak     | Horizontal   |
| 3    | 11510           | 37.43          | 14.40       | 51.83             | 54             | -2.17           | peak     | Horizontal   |
| 4    | 7380            | 40.74          | 11.38       | 52.12             | 54             | -1.88           | peak     | Vertical     |
| 5    | 8414            | 39.38          | 11.99       | 51.37             | 54             | -2.63           | peak     | Vertical     |
| 6    | 11510           | 37.28          | 14.40       | 51.68             | 54             | -2.32           | peak     | Vertical     |

**802.11 ac(VHT40)**

**Channel: 159**

| Mark | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Emission (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Polarization |
|------|-----------------|----------------|-------------|-------------------|----------------|-----------------|----------|--------------|
| 1    | 8944            | 37.71          | 13.55       | 51.26             | 54             | -2.74           | peak     | Horizontal   |
| 2    | 10168           | 37.66          | 14.40       | 52.06             | 54             | -1.94           | peak     | Horizontal   |
| 3    | 11590           | 36.66          | 14.20       | 50.86             | 54             | -3.14           | peak     | Horizontal   |
| 4    | 8843            | 38.22          | 13.22       | 51.44             | 54             | -2.56           | peak     | Vertical     |
| 5    | 10515           | 37.35          | 14.04       | 51.39             | 54             | -2.61           | peak     | Vertical     |
| 6    | 11590           | 35.84          | 14.20       | 50.04             | 54             | -3.96           | peak     | Vertical     |

**802.11 ac(VHT80)**

**Channel:42**

| Mark | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Emission (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Polarization |
|------|-----------------|----------------|-------------|-------------------|----------------|-----------------|----------|--------------|
| 1    | 6976            | 40.26          | 9.65        | 49.91             | 54             | -4.09           | peak     | Horizontal   |
| 2    | 8812            | 38.13          | 13.10       | 51.23             | 54             | -2.77           | peak     | Horizontal   |
| 3    | 10420           | 36.97          | 14.17       | 51.14             | 54             | -2.86           | peak     | Horizontal   |
| 4    | 8164            | 39.00          | 11.66       | 50.66             | 54             | -3.34           | peak     | Vertical     |
| 5    | 8668            | 38.08          | 12.66       | 50.74             | 54             | -3.26           | peak     | Vertical     |
| 6    | 10420           | 37.24          | 14.17       | 51.41             | 54             | -2.59           | peak     | Vertical     |

**802.11 ac(VHT80)**

**Channel: 155**

| Mark | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Emission (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Polarization |
|------|-----------------|----------------|-------------|-------------------|----------------|-----------------|----------|--------------|
| 1    | 9172            | 36.82          | 14.03       | 50.85             | 54             | -3.15           | peak     | Horizontal   |
| 2    | 10672           | 38.27          | 14.18       | 52.45             | 54             | -1.55           | peak     | Horizontal   |
| 3    | 11550           | 37.05          | 14.30       | 51.35             | 54             | -2.65           | peak     | Horizontal   |
| 4    | 8164            | 39.00          | 11.66       | 50.66             | 54             | -3.34           | peak     | Vertical     |
| 5    | 11200           | 37.92          | 14.25       | 52.17             | 54             | -1.83           | peak     | Vertical     |
| 6    | 11550           | 37.24          | 14.30       | 51.54             | 54             | -2.46           | peak     | Vertical     |

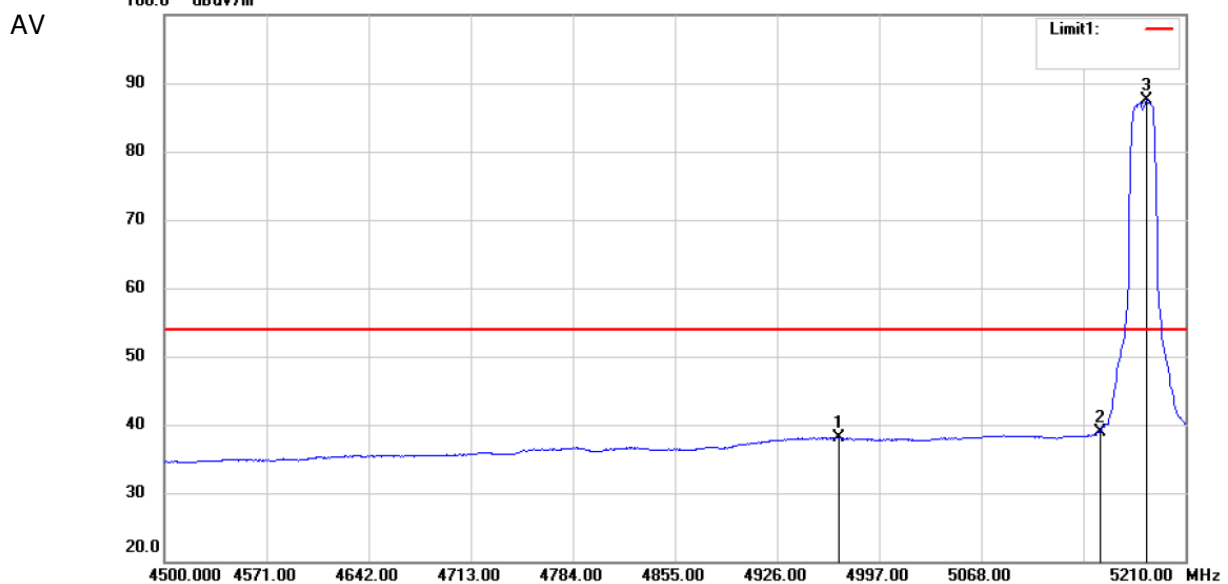
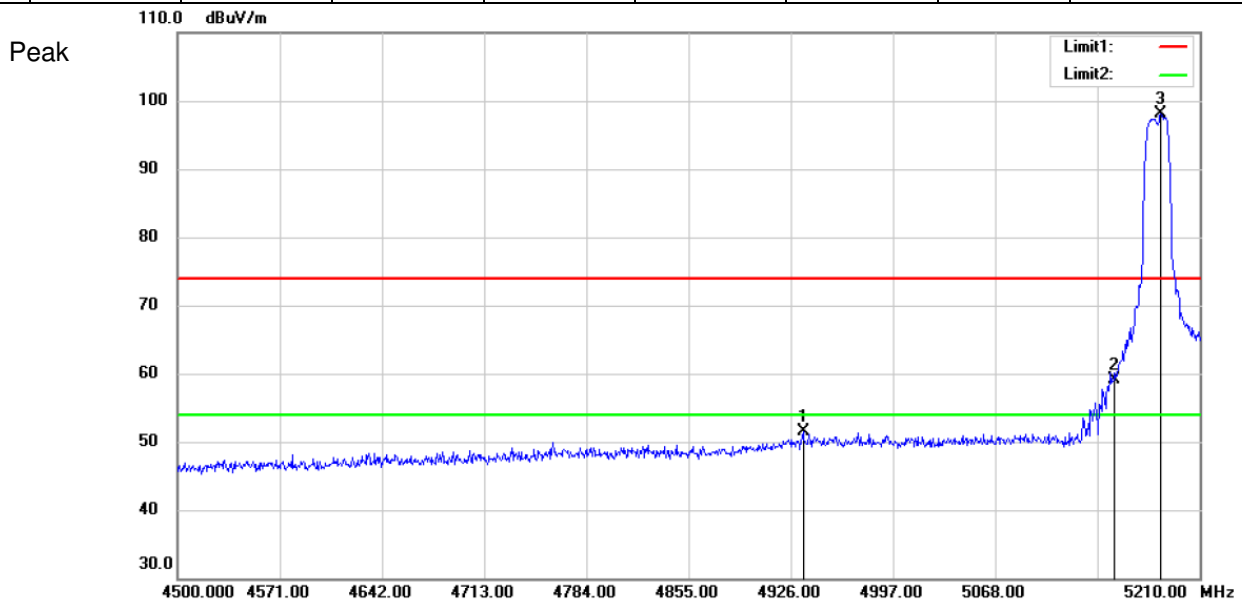
## 7.9.2 Radiated Band-edge

802.11 a

Channel: 36

Fundamental frequency: 5180MHz

| MK. | Frequency (MHz) | Reading (dBUV/m) | Corrected factor(dB) | Result (dBUV/m) | Limit (dBUV/m) | Over Limit (dB) | Detector | Polarization |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-----------------|----------|--------------|
| 1   | 4934.52         | 44.12            | 7.37                 | 51.49           | 74             | -22.51          | Peak     | Horizontal   |
| 2   | 5150            | 52.23            | 6.92                 | 59.15           | 74             | -14.85          | Peak     | Horizontal   |
| 3   | 5183.02         | 91.32            | 6.74                 | 98.06           | 74             | 24.06           | Peak     | Horizontal   |
| 1   | 4968.6          | 30.61            | 7.54                 | 38.15           | 54             | -15.85          | AV       | Horizontal   |
| 2   | 5150            | 32.06            | 6.92                 | 38.98           | 54             | -15.02          | AV       | Horizontal   |
| 3   | 5183.02         | 80.68            | 6.74                 | 87.42           | 54             | 33.42           | AV       | Horizontal   |

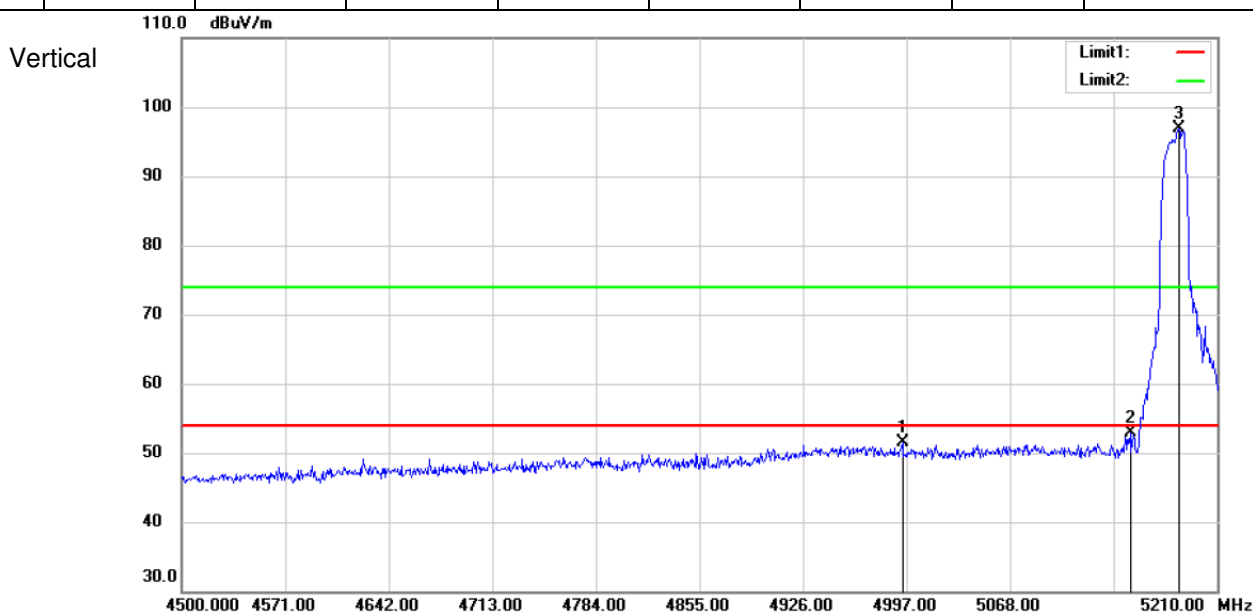


### 802.11 a

Channel: 36

Fundamental frequency: 5180MHz

| MK. | Frequency (MHz) | Reading (dBUV/m) | Corrected factor(dB) | Result (dBUV/m) | Limit (dBUV/m) | Over Limit (dB) | Detector | Polarization |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-----------------|----------|--------------|
| 1   | 4994.16         | 43.79            | 7.67                 | 51.46           | 54             | -2.54           | Peak     | Vertical     |
| 2   | 5150            | 46.01            | 6.92                 | 52.93           | 54             | -1.07           | Peak     | Vertical     |
| 3   | 5183.73         | 90.15            | 6.74                 | 96.89           | 54             | 42.89           | Peak     | Vertical     |



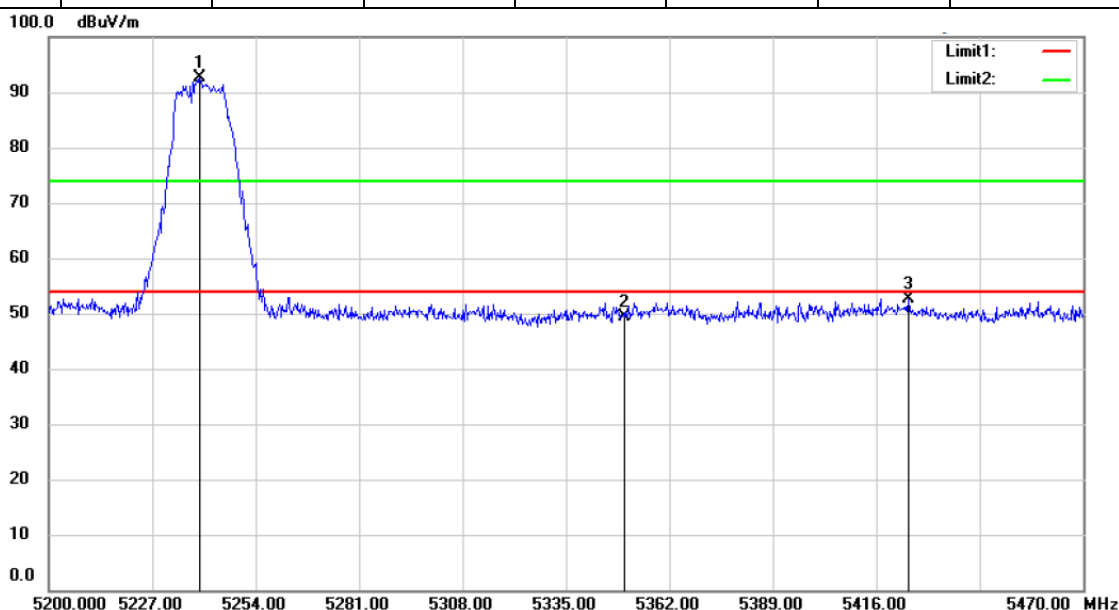
802.11 a

Channel: 48

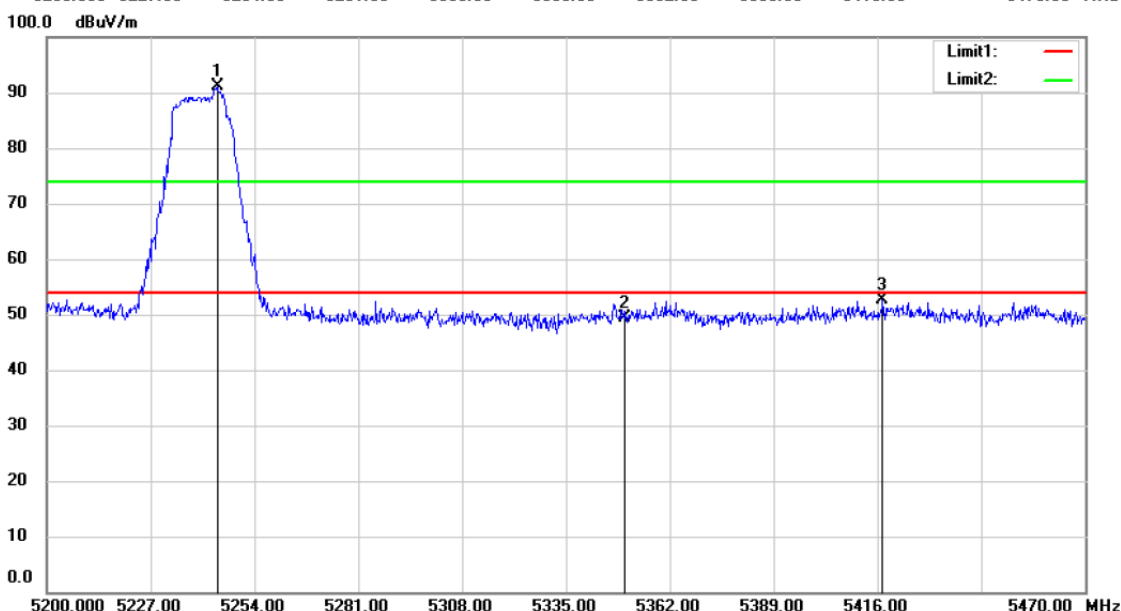
Fundamental frequency: 5240MHz

| MK. | Frequency (MHz) | Reading (dBUV/m) | Corrected factor(dB) | Result (dBUV/m) | Limit (dBUV/m) | Over Limit (dB) | Detector | Polarization |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-----------------|----------|--------------|
| 1   | 5239.42         | 86.02            | 6.65                 | 92.67           | 54             | 38.67           | Peak     | Vertical     |
| 2   | 5350            | 42.35            | 6.98                 | 49.33           | 54             | -4.67           | Peak     | Vertical     |
| 3   | 5424.37         | 45.44            | 7.23                 | 52.67           | 54             | -1.33           | Peak     | Vertical     |
| 1   | 5244.28         | 84.52            | 6.65                 | 91.17           | 54             | 37.17           | Peak     | Horizontal   |
| 2   | 5350            | 42.49            | 6.98                 | 49.47           | 54             | -4.53           | Peak     | Horizontal   |
| 3   | 5417.35         | 45.29            | 7.27                 | 52.56           | 54             | -1.44           | Peak     | Horizontal   |

Vertical



Horizontal

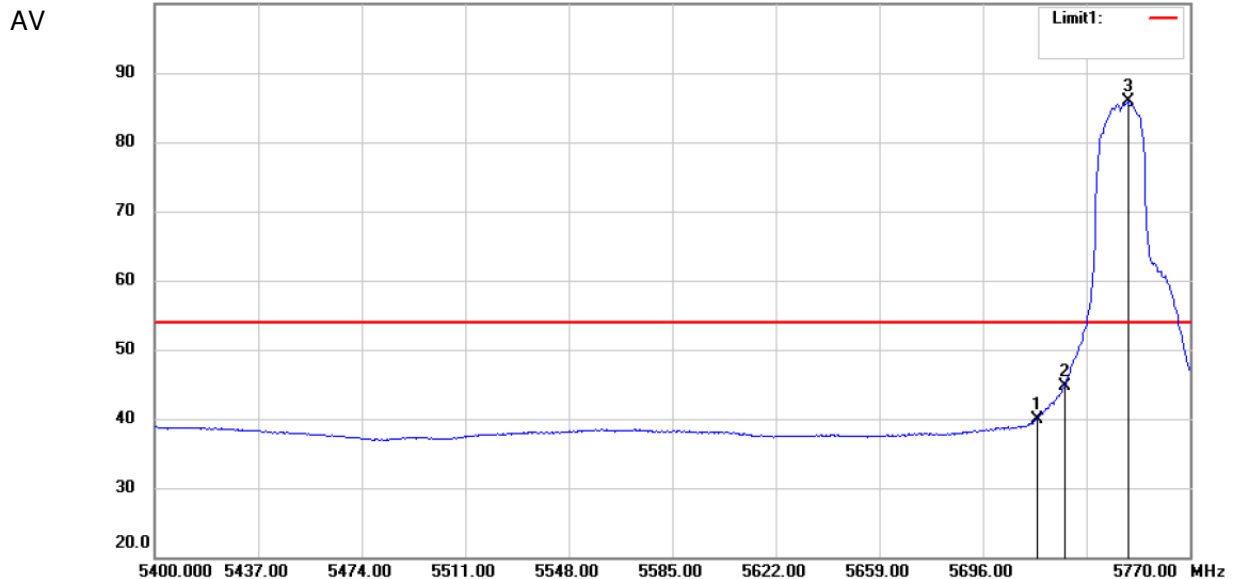
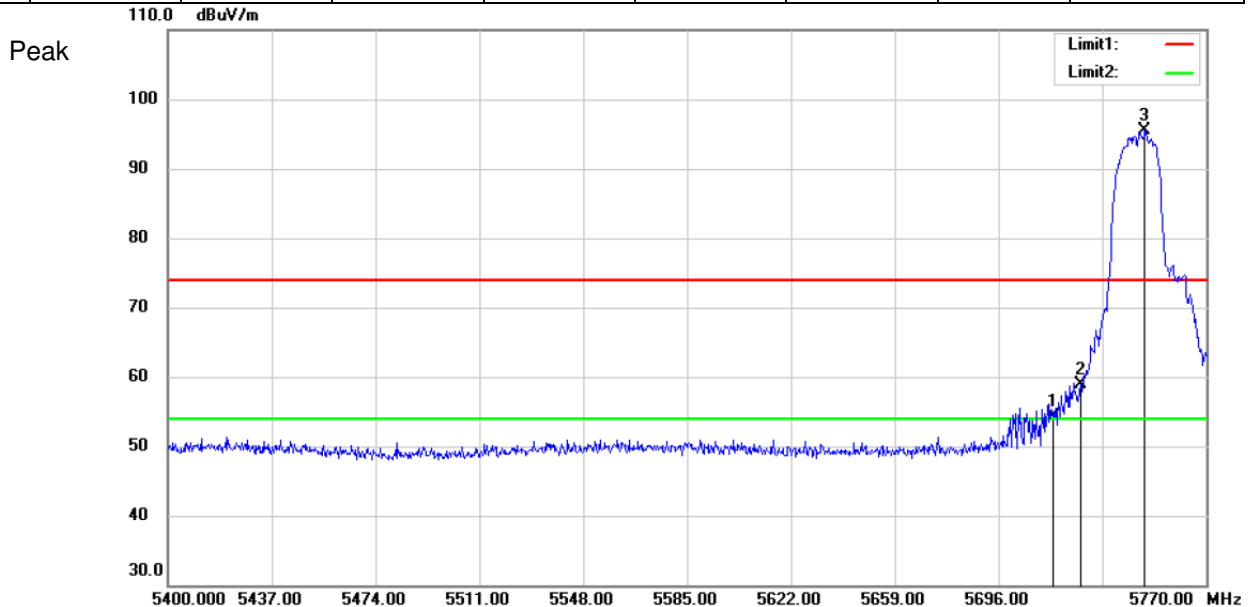


802.11 a

Channel: 149

Fundamental frequency: 5745MHz

| MK. | Frequency (MHz) | Reading (dBUV/m) | Corrected factor(dB) | Result (dBUV/m) | Limit (dBUV/m) | Over Limit (dB) | Detector | Polarization |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-----------------|----------|--------------|
| 1   | 5715            | 47.51            | 6.84                 | 54.35           | 74             | -19.65          | Peak     | Horizontal   |
| 2   | 5725            | 52.17            | 6.82                 | 58.99           | 74             | -15.01          | Peak     | Horizontal   |
| 3   | 5748.17         | 88.79            | 6.77                 | 95.56           | 74             | 21.56           | Peak     | Horizontal   |
| 1   | 5715            | 33.11            | 6.84                 | 39.95           | 54             | -14.05          | AV       | Horizontal   |
| 2   | 5725            | 37.79            | 6.82                 | 44.61           | 54             | -9.39           | AV       | Horizontal   |
| 3   | 5747.8          | 79.06            | 6.77                 | 85.83           | 54             | 31.83           | AV       | Horizontal   |

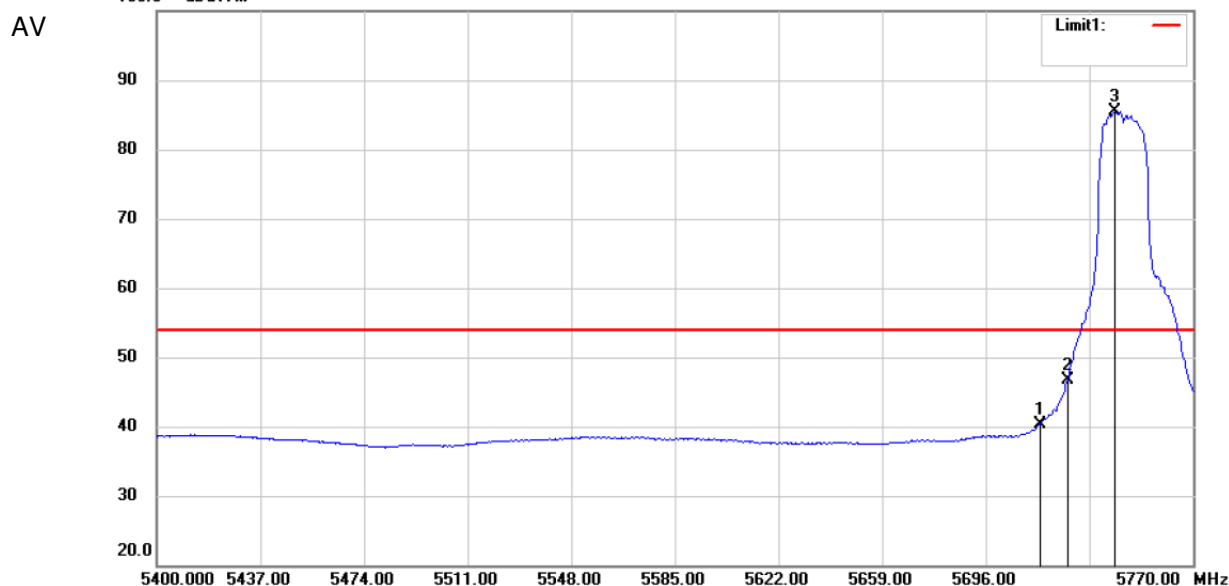
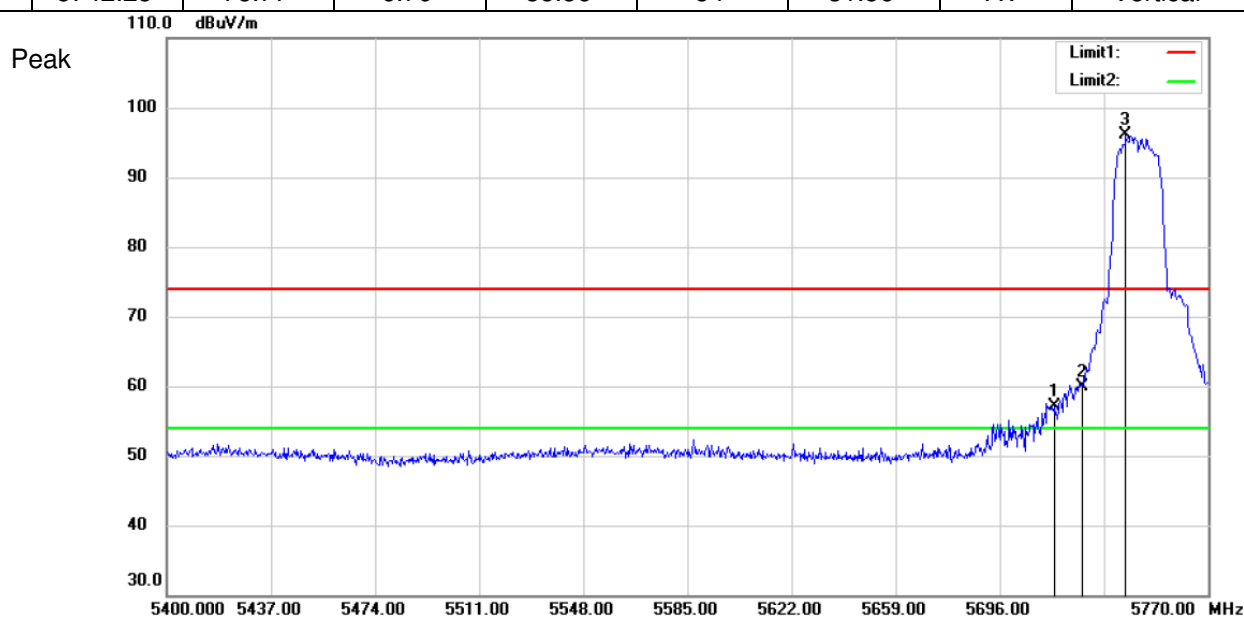


### 802.11 a

Channel: 149

Fundamental frequency: 5745MHz

| MK. | Frequency (MHz) | Reading (dBUV/m) | Corrected factor(dB) | Result (dBUV/m) | Limit (dBUV/m) | Over Limit (dB) | Detector | Polarization |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-----------------|----------|--------------|
| 1   | 5715            | 50.36            | 6.84                 | 57.2            | 74             | -16.8           | Peak     | Vertical     |
| 2   | 5725            | 53.12            | 6.82                 | 59.94           | 74             | -14.06          | Peak     | Vertical     |
| 3   | 5740.77         | 89.35            | 6.79                 | 96.14           | 74             | 22.14           | Peak     | Vertical     |
| 1   | 5715            | 33.45            | 6.84                 | 40.29           | 54             | -13.71          | AV       | Vertical     |
| 2   | 5725            | 39.84            | 6.82                 | 46.66           | 54             | -7.34           | AV       | Vertical     |
| 3   | 5742.25         | 78.77            | 6.79                 | 85.56           | 54             | 31.56           | AV       | Vertical     |

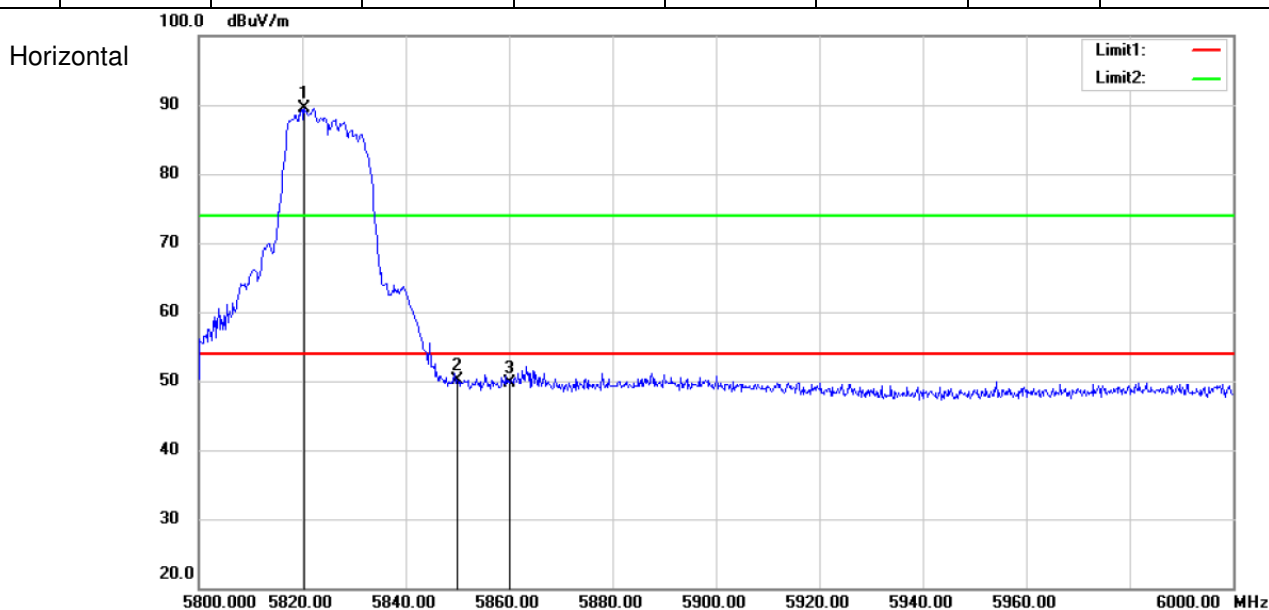


### 802.11 a

Channel: 165

Fundamental frequency: 5825MHz

| MK. | Frequency (MHz) | Reading (dBuV/m) | Corrected factor(dB) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Polarization |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-----------------|----------|--------------|
| 1   | 5820.4          | 82.82            | 6.65                 | 89.47           | 54             | 35.47           | Peak     | Horizontal   |
| 2   | 5850            | 43.4             | 6.64                 | 50.04           | 54             | -3.96           | Peak     | Horizontal   |
| 3   | 5860            | 43.05            | 6.63                 | 49.68           | 54             | -4.32           | Peak     | Horizontal   |

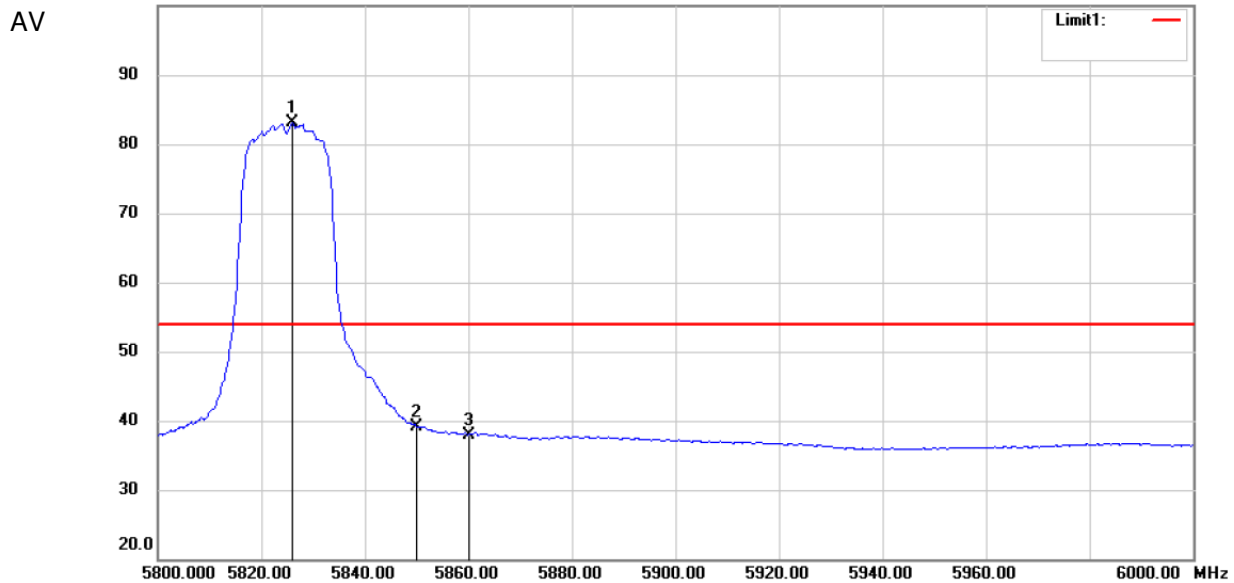
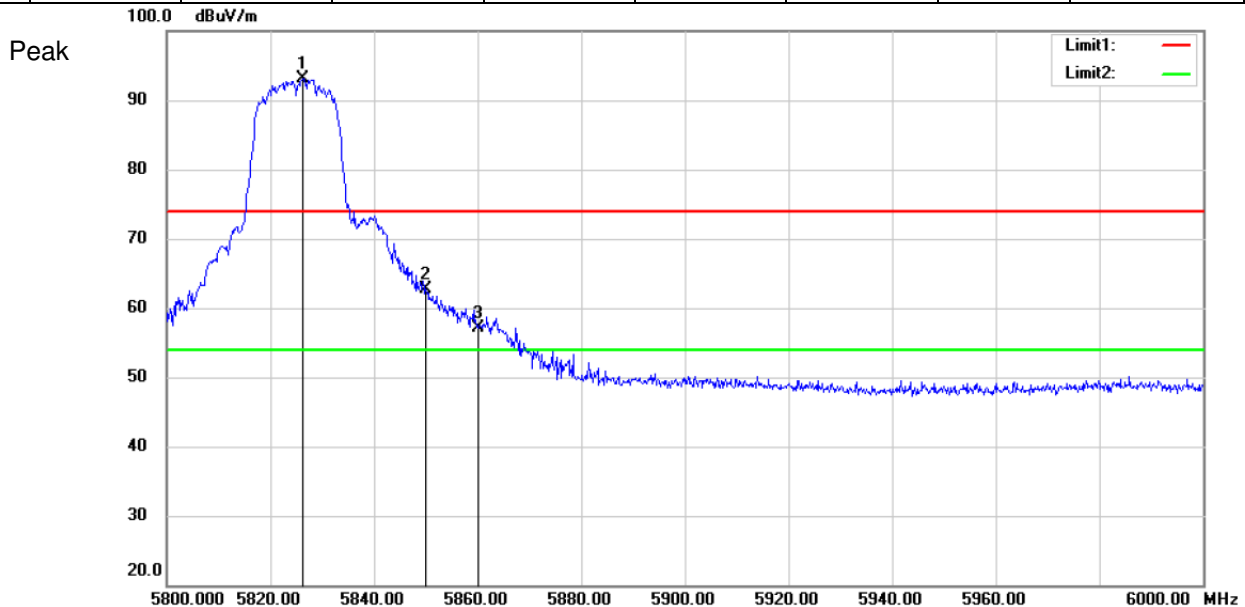


802.11 a

Channel: 165

Fundamental frequency: 5825MHz

| MK. | Frequency (MHz) | Reading (dBUV/m) | Corrected factor(dB) | Result (dBUV/m) | Limit (dBUV/m) | Over Limit (dB) | Detector | Polarization |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-----------------|----------|--------------|
| 1   | 5826.2          | 86.51            | 6.66                 | 93.17           | 74             | 19.17           | Peak     | Vertical     |
| 2   | 5850            | 55.99            | 6.64                 | 62.63           | 74             | -11.37          | Peak     | Vertical     |
| 3   | 5860            | 50.53            | 6.63                 | 57.16           | 74             | -16.84          | Peak     | Vertical     |
| 1   | 5826            | 76.38            | 6.66                 | 83.04           | 54             | 29.04           | AV       | Vertical     |
| 2   | 5850            | 32.44            | 6.64                 | 39.08           | 54             | -14.92          | AV       | Vertical     |
| 3   | 5860            | 31.37            | 6.63                 | 38              | 54             | -16             | AV       | Vertical     |

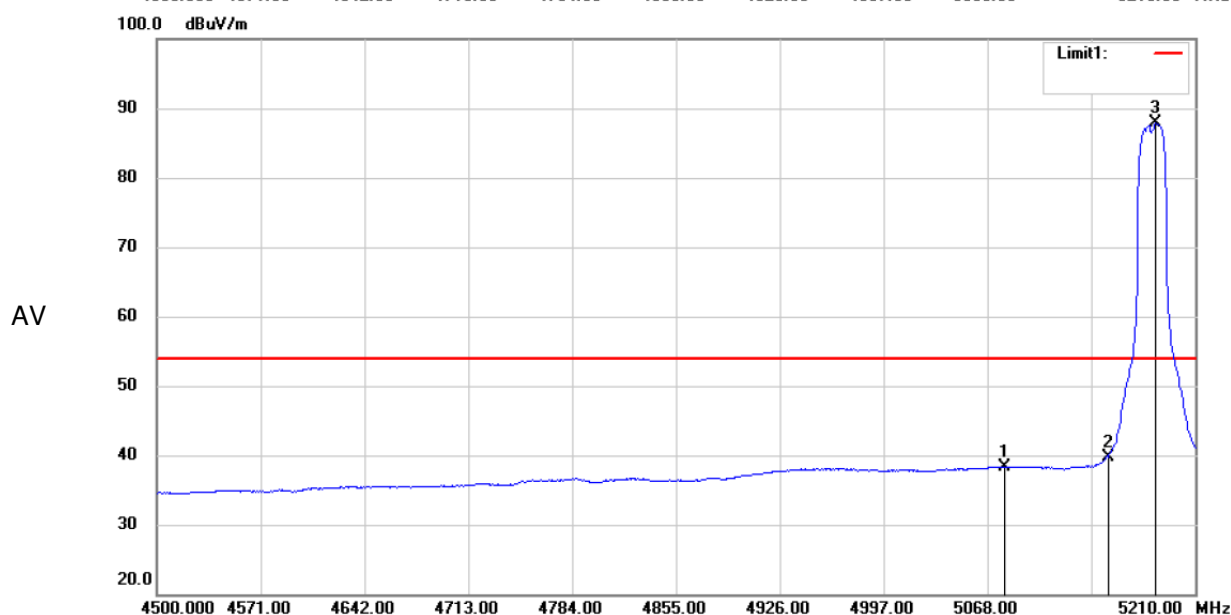
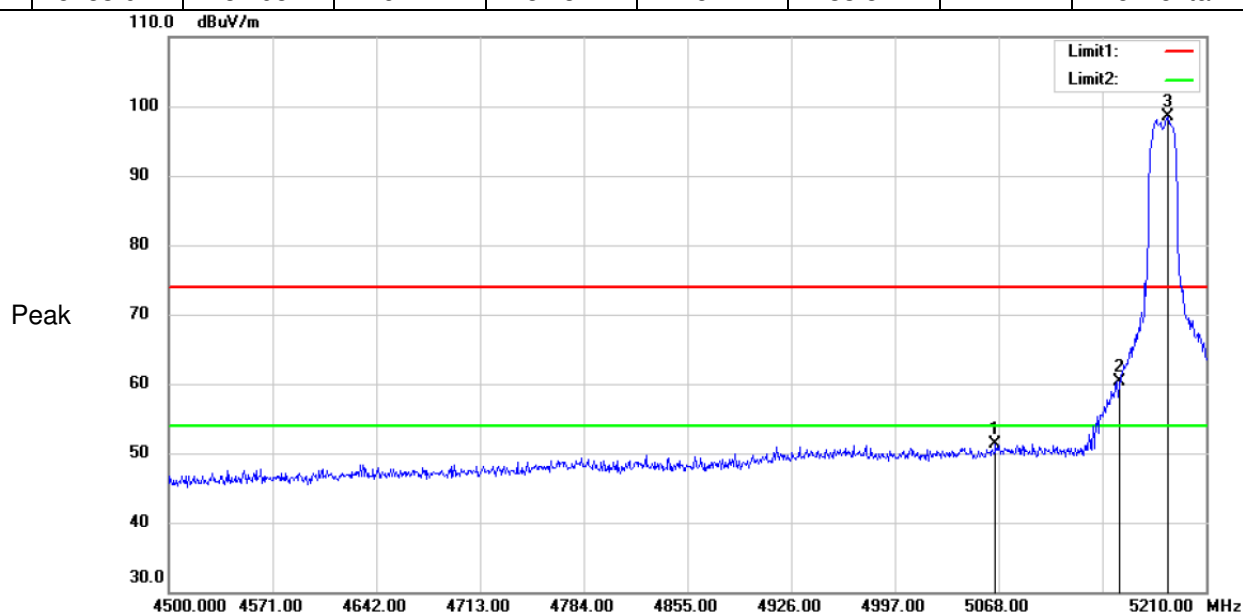


802.11 n(HT20)

Channel: 36

Fundamental frequency: 5180MHz

| MK. | Frequency (MHz) | Reading (dBuV/m) | Corrected factor(dB) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Polarization |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-----------------|----------|--------------|
| 1   | 5065.87         | 43.87            | 7.38                 | 51.25           | 74             | -22.75          | Peak     | Horizontal   |
| 2   | 5150            | 53.4             | 6.92                 | 60.32           | 74             | -13.68          | Peak     | Horizontal   |
| 3   | 5183.73         | 91.72            | 6.74                 | 98.46           | 74             | 24.46           | Peak     | Horizontal   |
| 1   | 5079.36         | 31.1             | 7.3                  | 38.4            | 54             | -15.6           | AV       | Horizontal   |
| 2   | 5150            | 32.88            | 6.92                 | 39.8            | 54             | -14.2           | AV       | Horizontal   |
| 3   | 5183.02         | 81.08            | 6.74                 | 87.82           | 54             | 33.82           | AV       | Horizontal   |

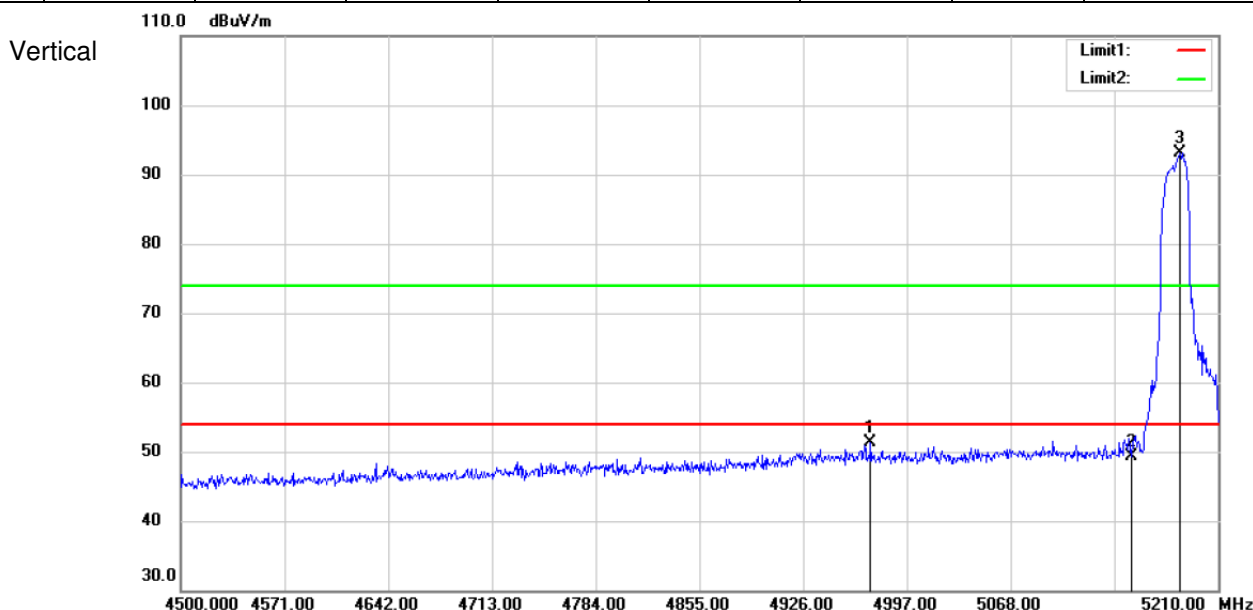


802.11 n(HT20)

Channel: 36

Fundamental frequency: 5180MHz

| MK. | Frequency (MHz) | Reading (dBUV/m) | Corrected factor(dB) | Result (dBUV/m) | Limit (dBUV/m) | Over Limit (dB) | Detector | Polarization |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-----------------|----------|--------------|
| 1   | 4972.15         | 43.68            | 7.56                 | 51.24           | 54             | -2.76           | Peak     | Vertical     |
| 2   | 5150            | 42.33            | 6.92                 | 49.25           | 54             | -4.75           | Peak     | Vertical     |
| 3   | 5183.73         | 86.31            | 6.74                 | 93.05           | 54             | 39.05           | Peak     | Vertical     |

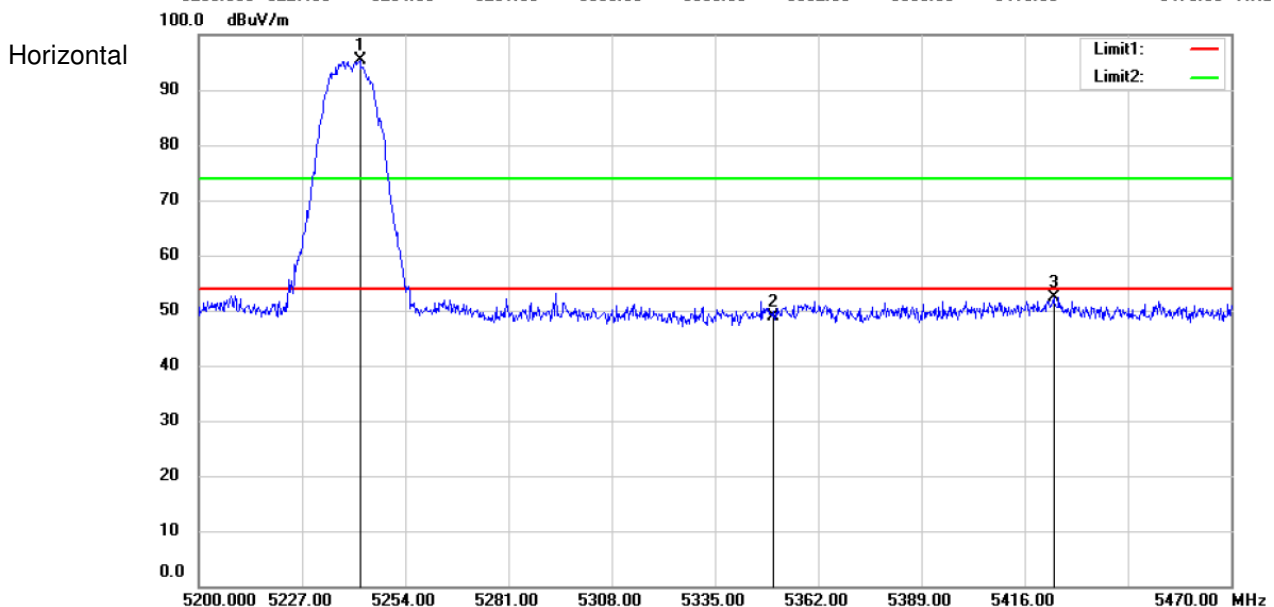
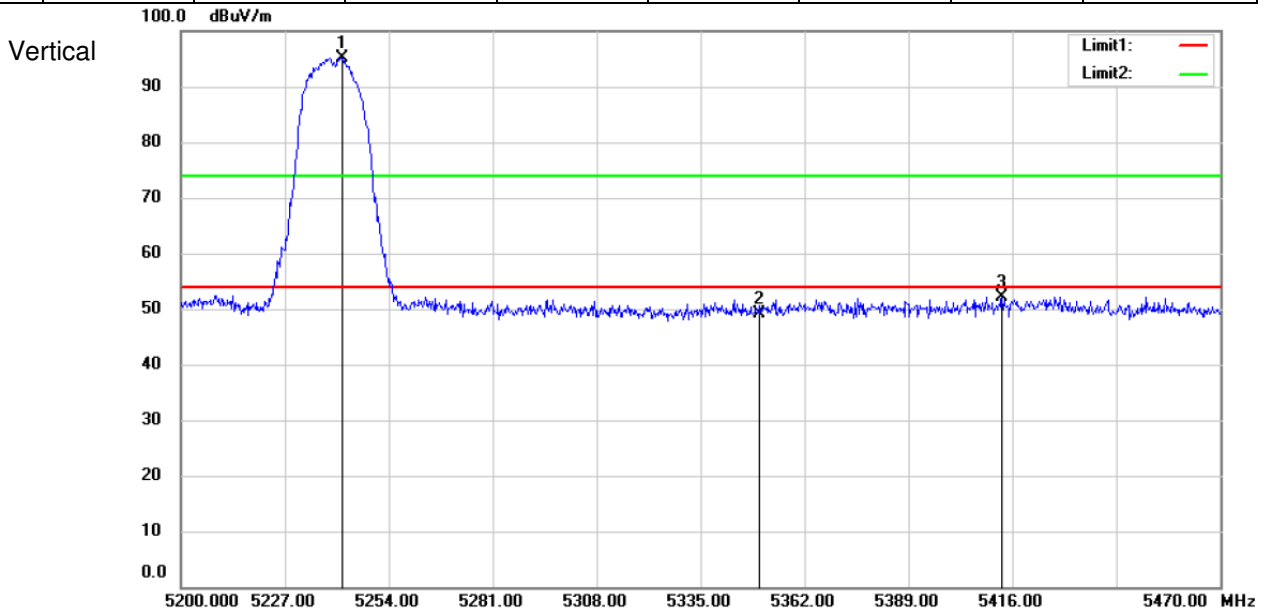


802.11 n(HT20)

Channel: 48

Fundamental frequency: 5240MHz

| MK. | Frequency (MHz) | Reading (dBUV/m) | Corrected factor(dB) | Result (dBUV/m) | Limit (dBUV/m) | Over Limit (dB) | Detector | Polarization |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-----------------|----------|--------------|
| 1   | 5241.85         | 88.49            | 6.65                 | 95.14           | 54             | 41.14           | Peak     | Vertical     |
| 2   | 5350            | 42.24            | 6.98                 | 49.22           | 54             | -4.78           | Peak     | Vertical     |
| 3   | 5413.3          | 44.81            | 7.27                 | 52.08           | 54             | -1.92           | Peak     | Vertical     |
| 1   | 5242.12         | 88.81            | 6.65                 | 95.46           | 54             | 41.46           | Peak     | Horizontal   |
| 2   | 5350            | 41.78            | 6.98                 | 48.76           | 54             | -5.24           | Peak     | Horizontal   |
| 3   | 5423.56         | 45.24            | 7.24                 | 52.48           | 54             | -1.52           | Peak     | Horizontal   |

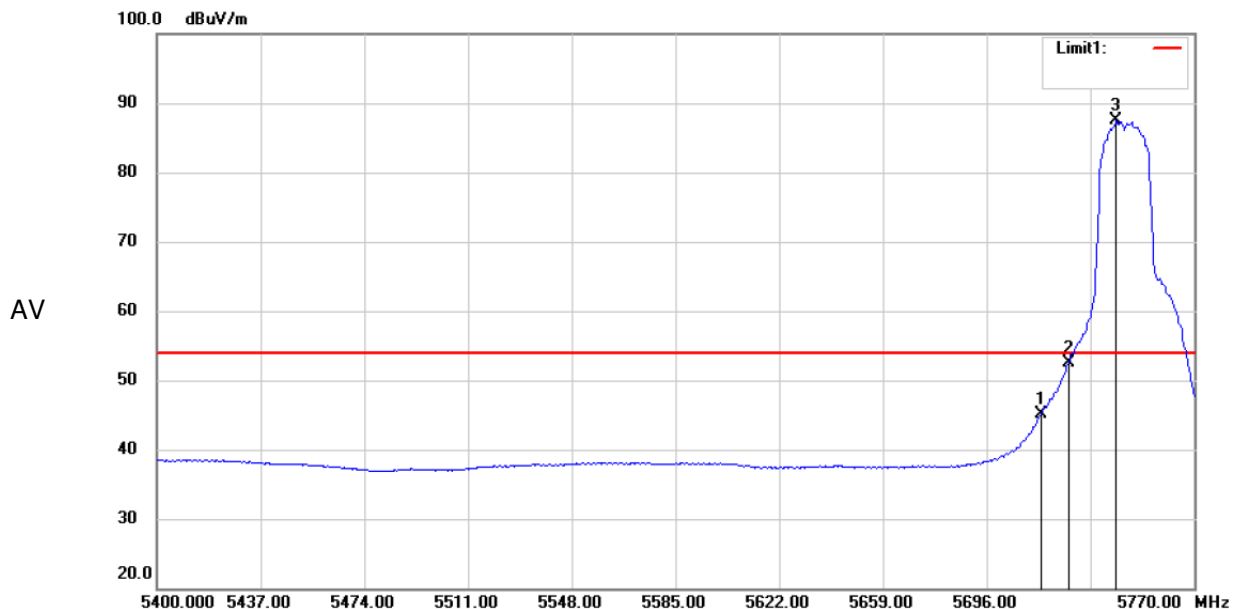
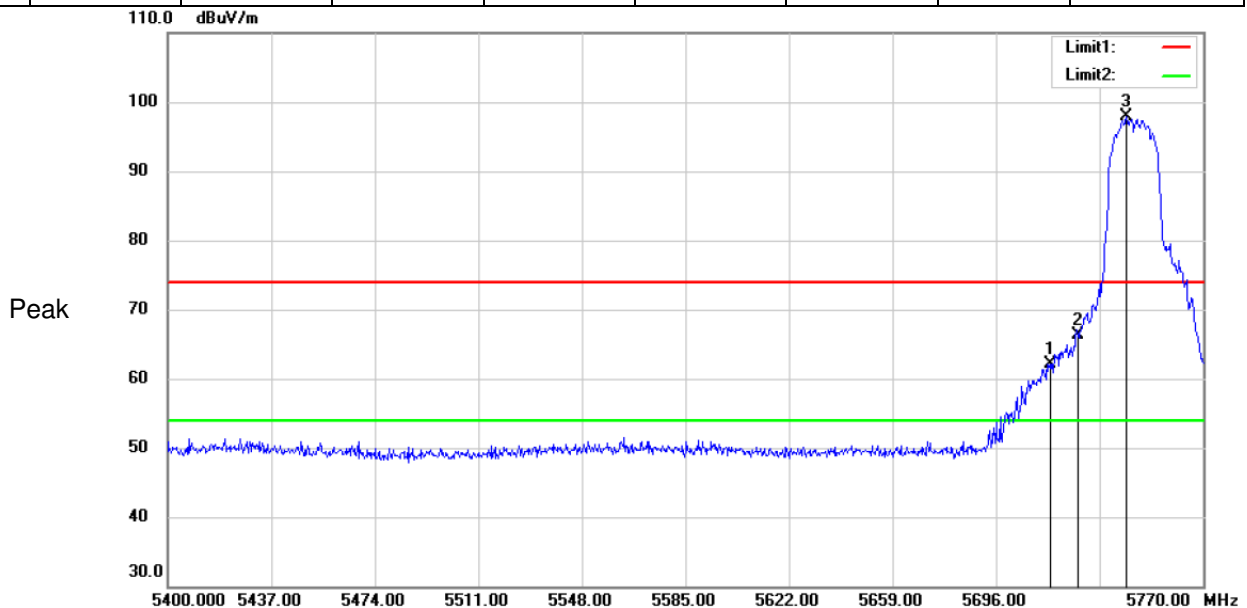


802.11 n(HT20)

Channel: 149

Fundamental frequency: 5745MHz

| MK. | Frequency (MHz) | Reading (dBuV/m) | Corrected factor(dB) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Polarization |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-----------------|----------|--------------|
| 1   | 5715            | 55.17            | 6.84                 | 62.01           | 74             | -11.99          | Peak     | Horizontal   |
| 2   | 5725            | 59.56            | 6.82                 | 66.38           | 74             | -7.62           | Peak     | Horizontal   |
| 3   | 5742.62         | 91.12            | 6.79                 | 97.91           | 74             | 23.91           | Peak     | Horizontal   |
| 1   | 5715            | 38.22            | 6.84                 | 45.06           | 54             | -8.94           | AV       | Horizontal   |
| 2   | 5725            | 45.64            | 6.82                 | 52.46           | 54             | -1.54           | AV       | Horizontal   |
| 3   | 5742.25         | 80.64            | 6.79                 | 87.43           | 54             | 33.43           | AV       | Horizontal   |

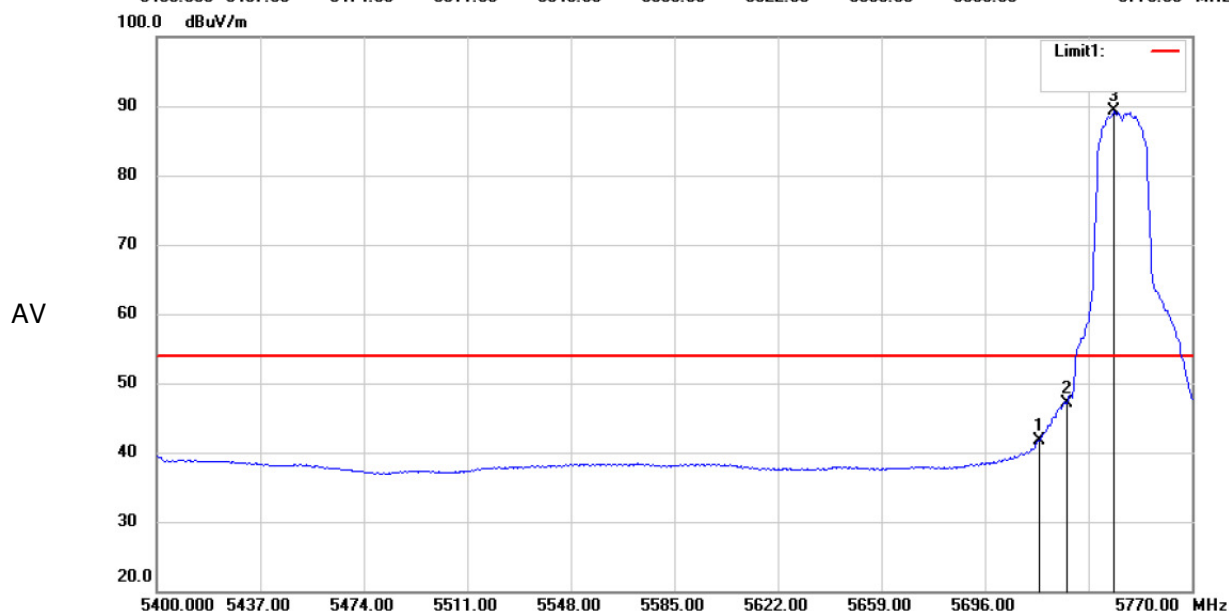
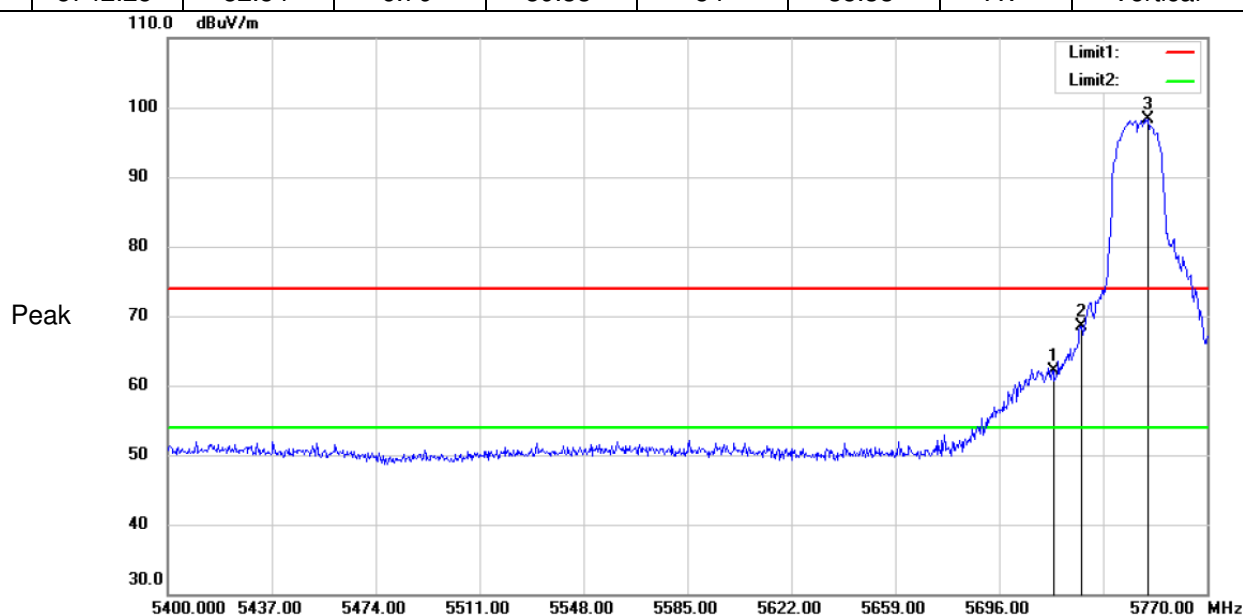


802.11 n(HT20)

Channel: 149

Fundamental frequency: 5745MHz

| MK. | Frequency (MHz) | Reading (dBuV/m) | Corrected factor(dB) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Polarization |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-----------------|----------|--------------|
| 1   | 5715            | 55.26            | 6.84                 | 62.1            | 74             | -11.9           | Peak     | Vertical     |
| 2   | 5725            | 61.7             | 6.82                 | 68.52           | 74             | -5.48           | Peak     | Vertical     |
| 3   | 5748.91         | 91.62            | 6.77                 | 98.39           | 74             | 24.39           | Peak     | Vertical     |
| 1   | 5715            | 34.87            | 6.84                 | 41.71           | 54             | -12.29          | AV       | Vertical     |
| 2   | 5725            | 40.31            | 6.82                 | 47.13           | 54             | -6.87           | AV       | Vertical     |
| 3   | 5742.25         | 82.54            | 6.79                 | 89.33           | 54             | 35.33           | AV       | Vertical     |

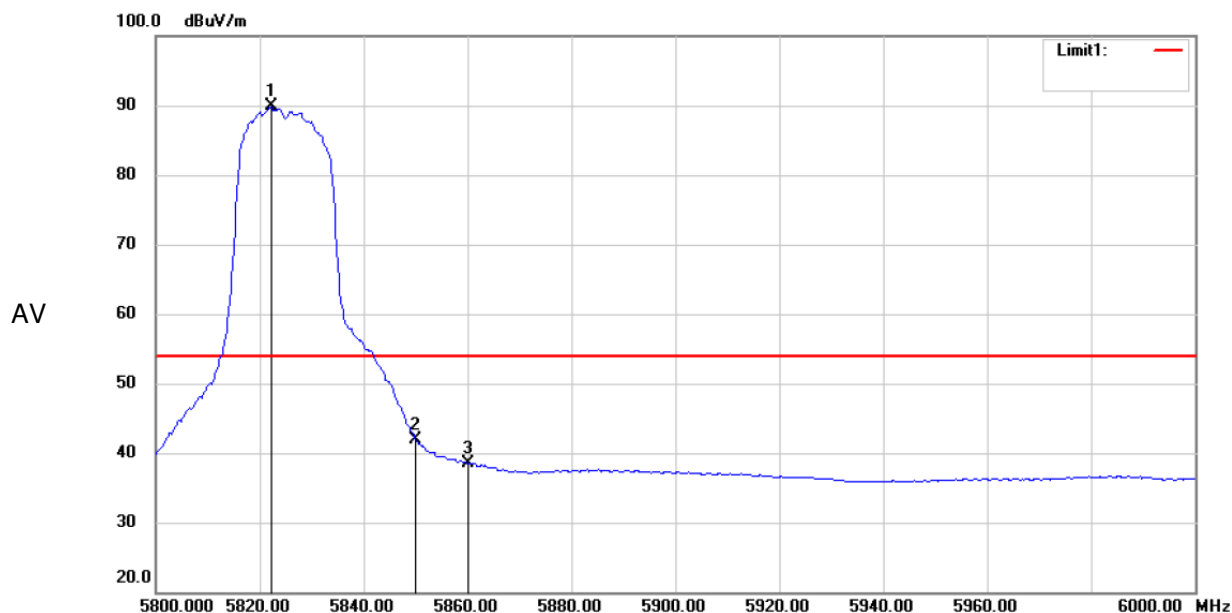
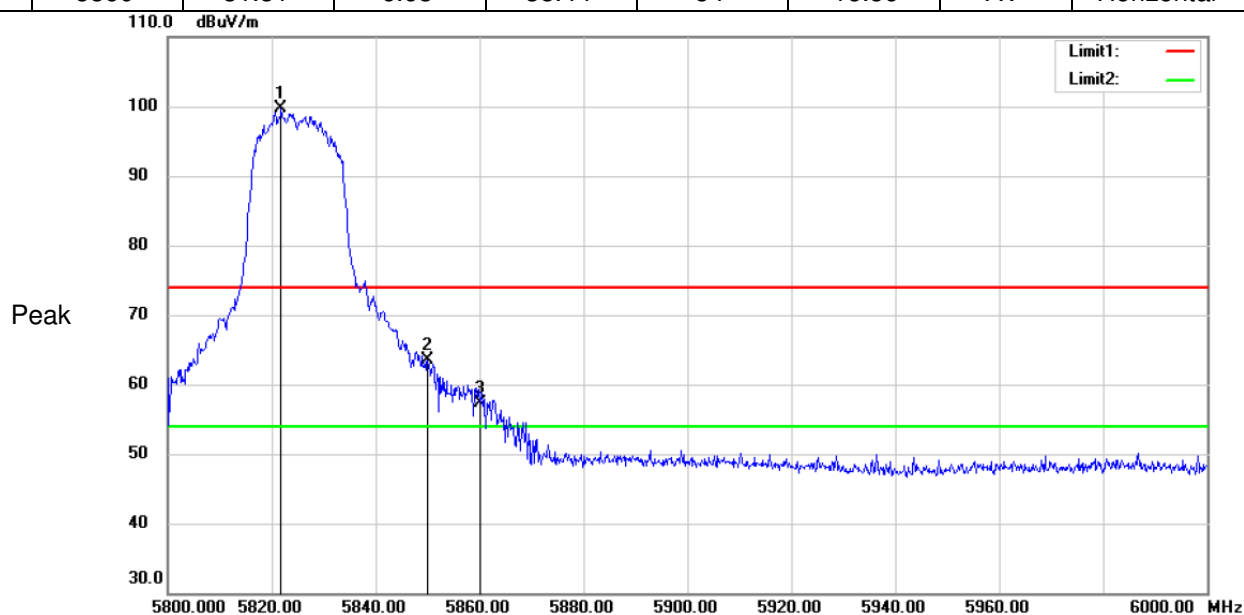


802.11 n(HT20)

Channel: 165

Fundamental frequency: 5825MHz

| MK. | Frequency (MHz) | Reading (dBuV/m) | Corrected factor(dB) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Polarization |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-----------------|----------|--------------|
| 1   | 5821.8          | 93.09            | 6.65                 | 99.74           | 74             | 25.74           | Peak     | Horizontal   |
| 2   | 5850            | 56.93            | 6.64                 | 63.57           | 74             | -10.43          | Peak     | Horizontal   |
| 3   | 5860            | 50.75            | 6.63                 | 57.38           | 74             | -16.62          | Peak     | Horizontal   |
| 1   | 5822.2          | 83.25            | 6.65                 | 89.9            | 54             | 35.9            | AV       | Horizontal   |
| 2   | 5850            | 35.21            | 6.64                 | 41.85           | 54             | -12.15          | AV       | Horizontal   |
| 3   | 5860            | 31.81            | 6.63                 | 38.44           | 54             | -15.56          | AV       | Horizontal   |

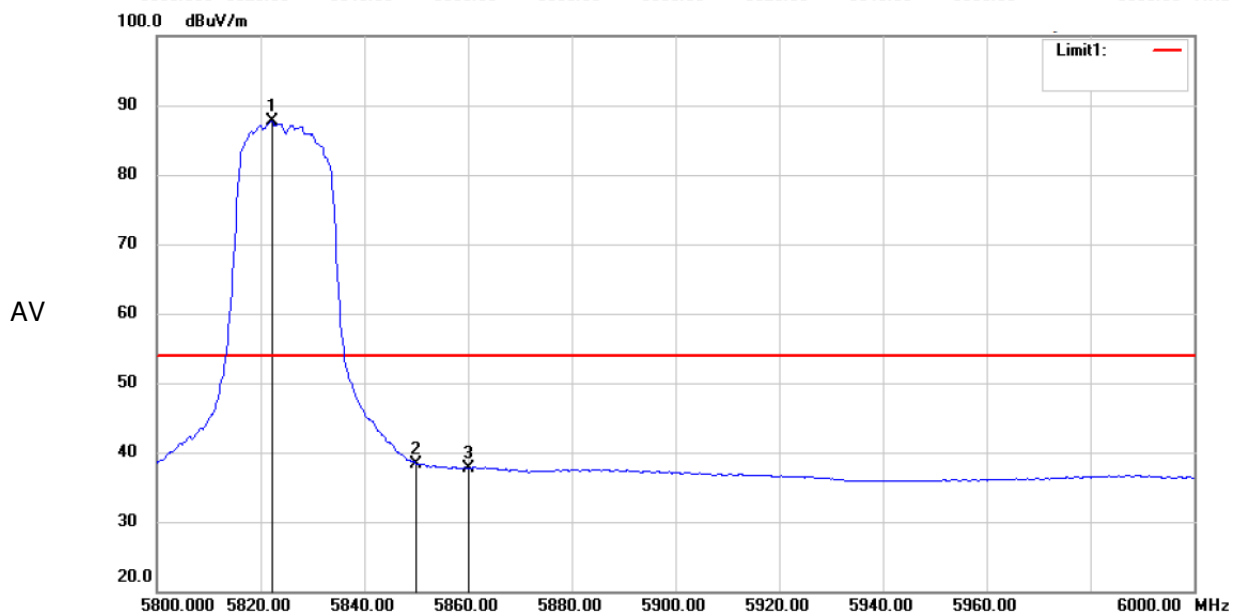
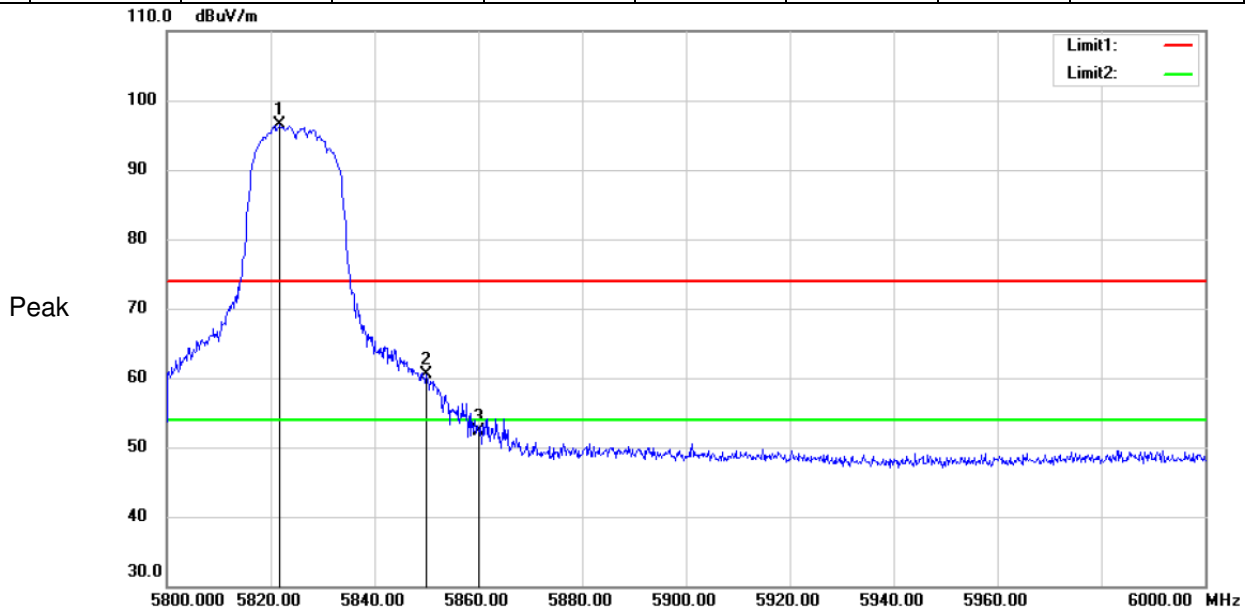


802.11 n(HT20)

Channel: 165

Fundamental frequency: 5825MHz

| MK. | Frequency (MHz) | Reading (dBUV/m) | Corrected factor(dB) | Result (dBUV/m) | Limit (dBUV/m) | Over Limit (dB) | Detector | Polarization |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-----------------|----------|--------------|
| 1   | 5821.8          | 89.82            | 6.65                 | 96.47           | 74             | 22.47           | Peak     | Vertical     |
| 2   | 5850            | 53.77            | 6.64                 | 60.41           | 74             | -13.59          | Peak     | Vertical     |
| 3   | 5860            | 45.61            | 6.63                 | 52.24           | 74             | -21.76          | Peak     | Vertical     |
| 1   | 5822.2          | 81.12            | 6.65                 | 87.77           | 54             | 33.77           | AV       | Vertical     |
| 2   | 5850            | 31.68            | 6.64                 | 38.32           | 54             | -15.68          | AV       | Vertical     |
| 3   | 5860            | 31.05            | 6.63                 | 37.68           | 54             | -16.32          | AV       | Vertical     |

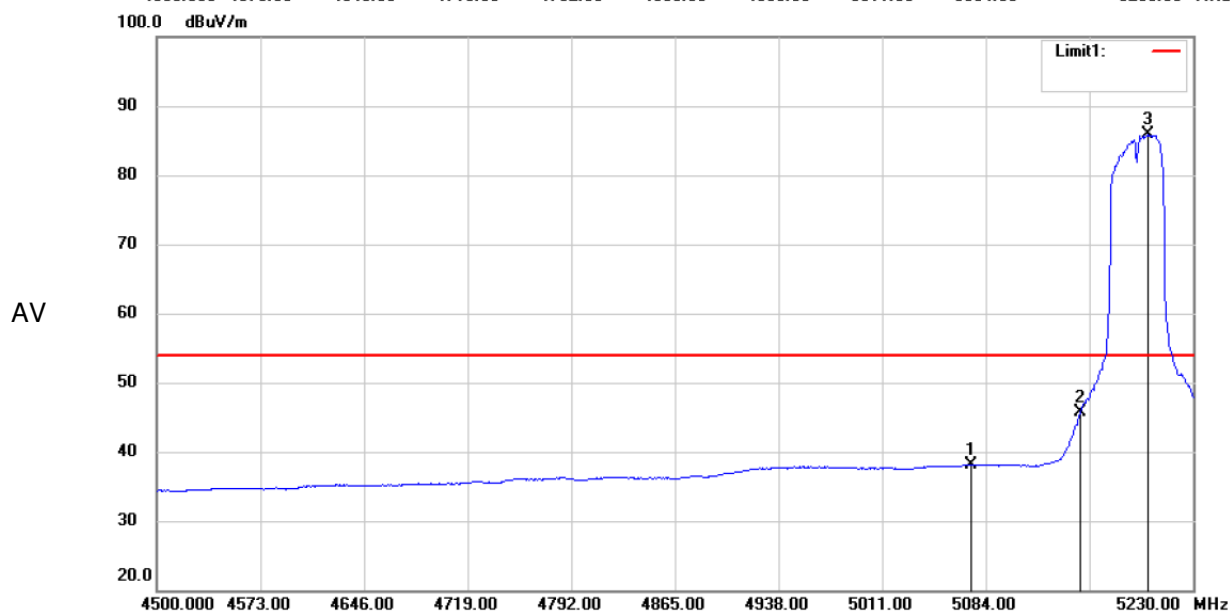
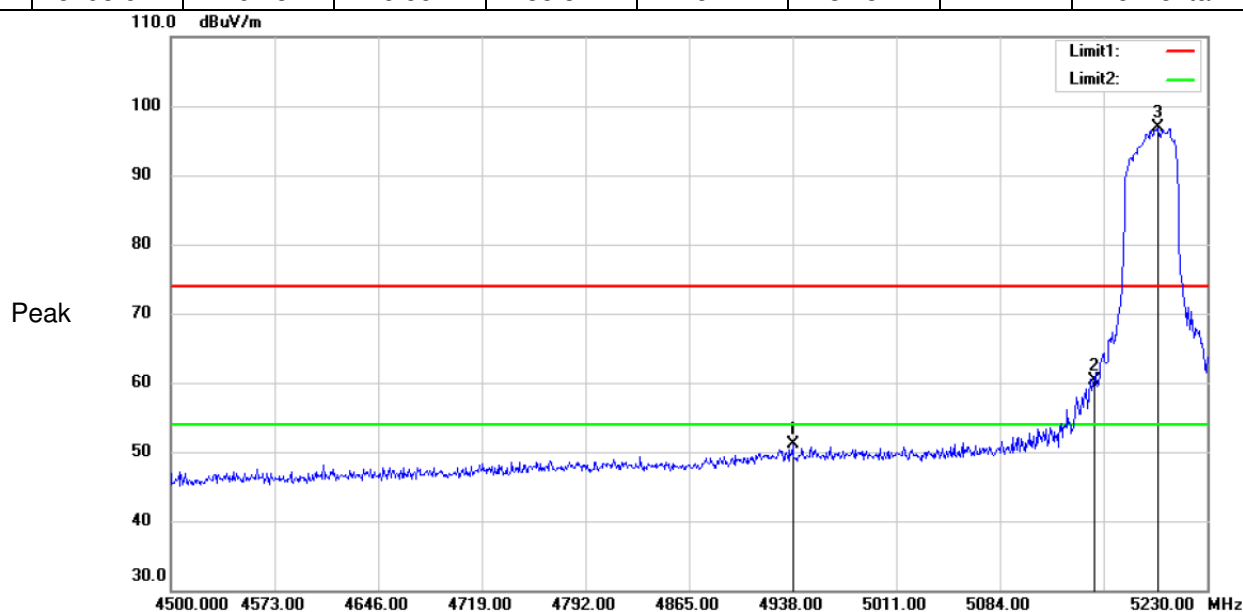


802.11 n(HT40)

Channel: 38

Fundamental frequency: 5190MHz

| MK. | Frequency (MHz) | Reading (dBuV/m) | Corrected factor(dB) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Polarization |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-----------------|----------|--------------|
| 1   | 4938            | 43.65            | 7.38                 | 51.03           | 74             | -22.97          | Peak     | Horizontal   |
| 2   | 5150            | 53.43            | 6.92                 | 60.35           | 74             | -13.65          | Peak     | Horizontal   |
| 3   | 5194.96         | 90.23            | 6.68                 | 96.91           | 74             | 22.91           | Peak     | Horizontal   |
| 1   | 5073.78         | 30.81            | 7.33                 | 38.14           | 54             | -15.86          | AV       | Horizontal   |
| 2   | 5150            | 38.75            | 6.92                 | 45.67           | 54             | -8.33           | AV       | Horizontal   |
| 3   | 5198.61         | 79.18            | 6.66                 | 85.84           | 54             | 31.84           | AV       | Horizontal   |

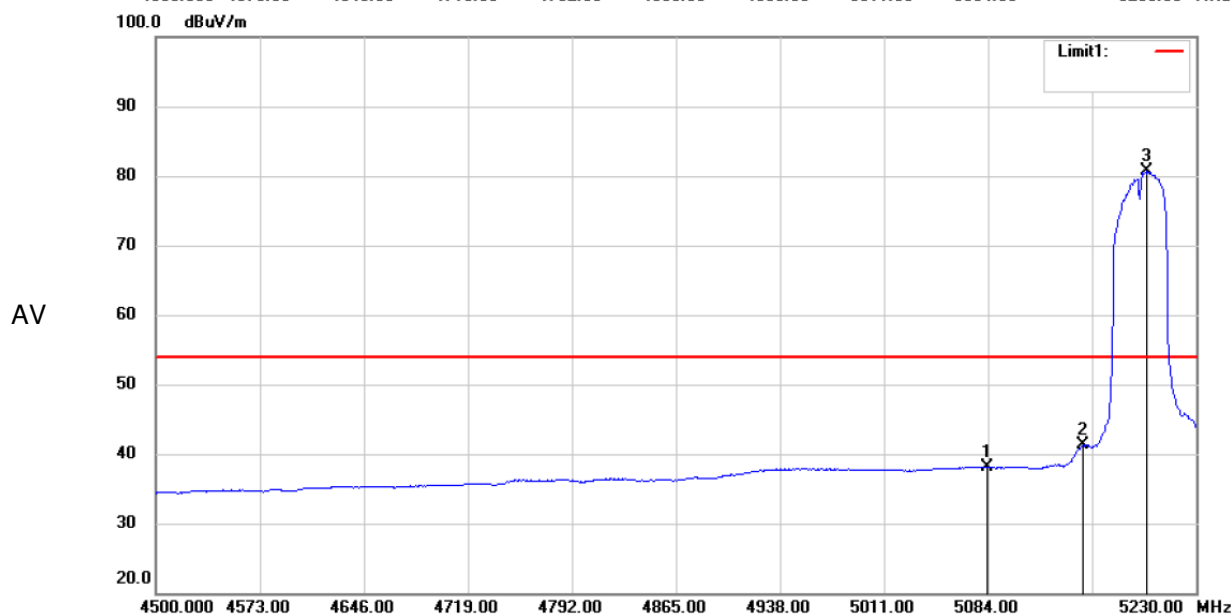
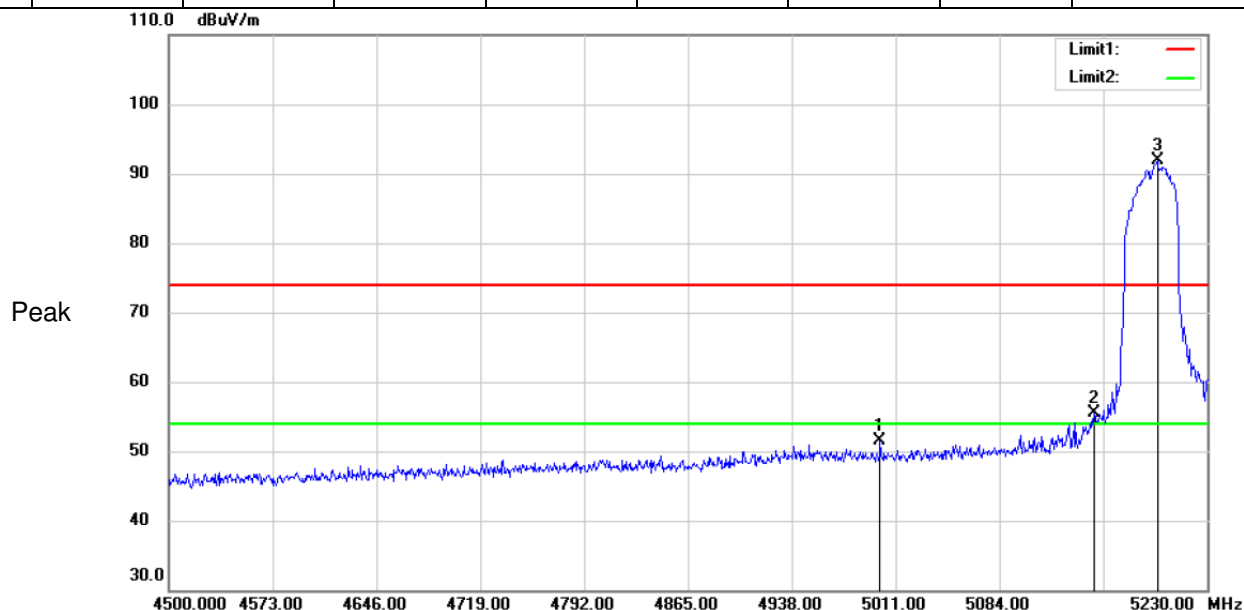


802.11 n(HT40)

Channel: 38

Fundamental frequency: 5190MHz

| MK. | Frequency (MHz) | Reading (dBUV/m) | Corrected factor(dB) | Result (dBUV/m) | Limit (dBUV/m) | Over Limit (dB) | Detector | Polarization |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-----------------|----------|--------------|
| 1   | 5000.05         | 43.87            | 7.7                  | 51.57           | 74             | -22.43          | Peak     | Vertical     |
| 2   | 5150            | 48.5             | 6.92                 | 55.42           | 74             | -18.58          | Peak     | Vertical     |
| 3   | 5194.96         | 85.17            | 6.68                 | 91.85           | 74             | 17.85           | Peak     | Vertical     |
| 1   | 5083.27         | 30.9             | 7.28                 | 38.18           | 54             | -15.82          | AV       | Vertical     |
| 2   | 5150            | 34.34            | 6.92                 | 41.26           | 54             | -12.74          | AV       | Vertical     |
| 3   | 5194.96         | 73.96            | 6.68                 | 80.64           | 54             | 26.64           | AV       | Vertical     |

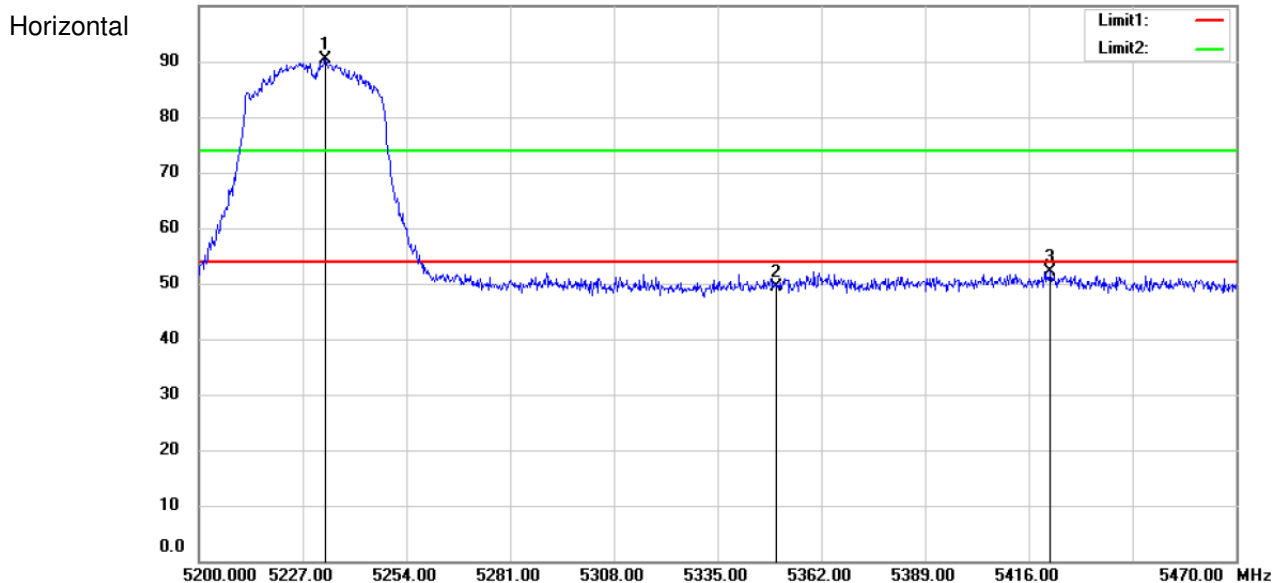
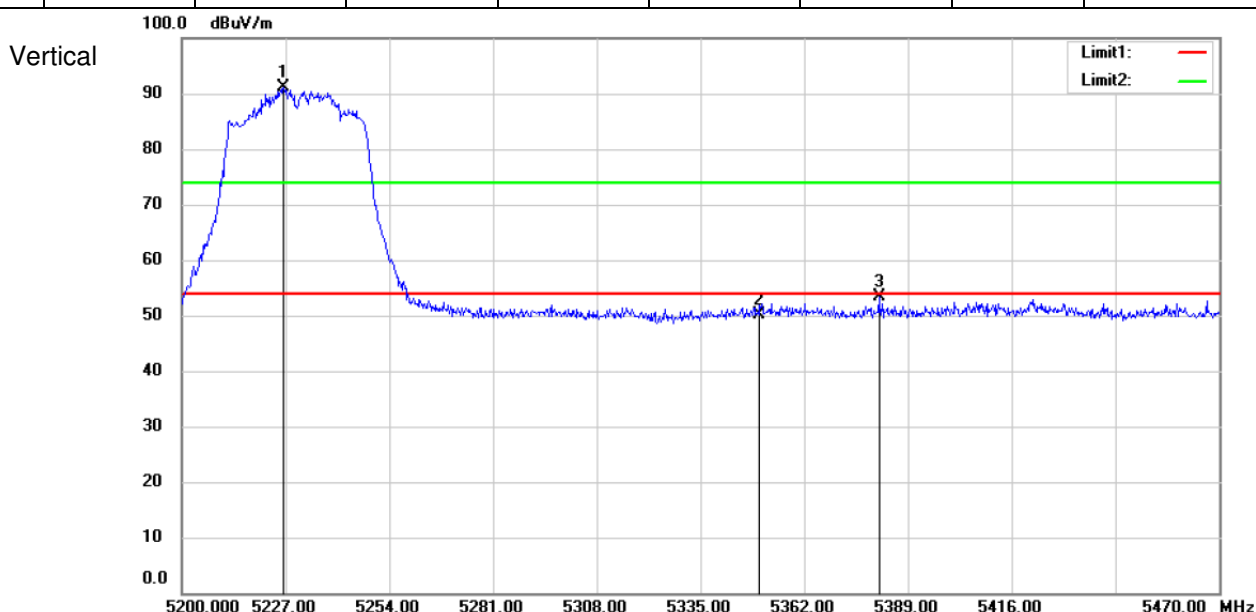


802.11 n(HT40)

Channel: 46

Fundamental frequency: 5230MHz

| MK. | Frequency (MHz) | Reading (dBUV/m) | Corrected factor(dB) | Result (dBUV/m) | Limit (dBUV/m) | Over Limit (dB) | Detector | Polarization |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-----------------|----------|--------------|
| 1   | 5226.46         | 84.44            | 6.64                 | 91.08           | 54             | 37.08           | Peak     | Vertical     |
| 2   | 5350            | 43.22            | 6.98                 | 50.2            | 54             | -3.8            | Peak     | Vertical     |
| 3   | 5381.44         | 46.09            | 7.19                 | 53.28           | 54             | -0.72           | Peak     | Vertical     |
| 1   | 5232.94         | 83.71            | 6.65                 | 90.36           | 54             | 36.36           | Peak     | Horizontal   |
| 2   | 5350            | 42.45            | 6.98                 | 49.43           | 54             | -4.57           | Peak     | Horizontal   |
| 3   | 5421.67         | 45.01            | 7.24                 | 52.25           | 54             | -1.75           | Peak     | Horizontal   |

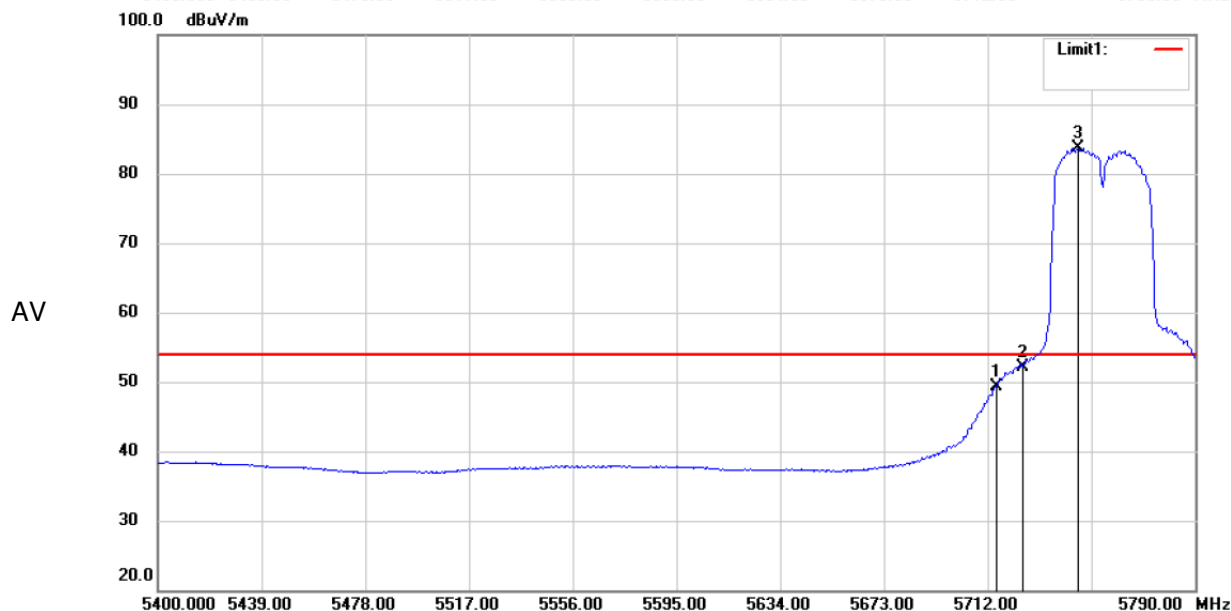
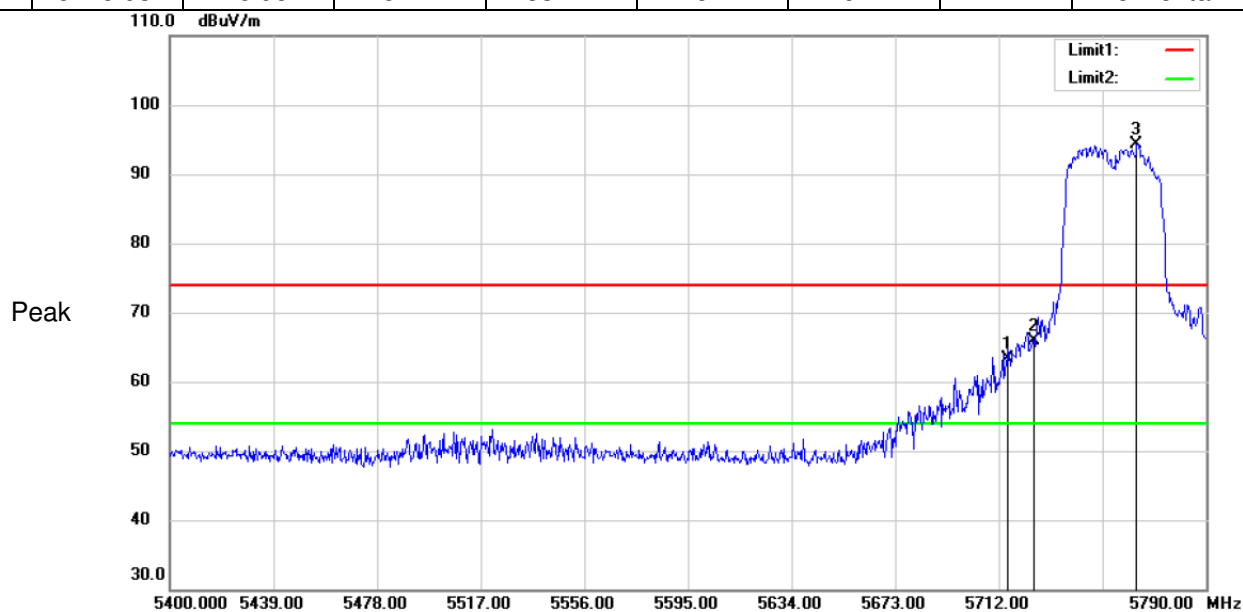


802.11 n(HT40)

Channel: 151

Fundamental frequency: 5755MHz

| MK. | Frequency (MHz) | Reading (dBUV/m) | Corrected factor(dB) | Result (dBUV/m) | Limit (dBUV/m) | Over Limit (dB) | Detector | Polarization |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-----------------|----------|--------------|
| 1   | 5715            | 56.44            | 6.84                 | 63.28           | 74             | -10.72          | Peak     | Horizontal   |
| 2   | 5725            | 58.99            | 6.82                 | 65.81           | 74             | -8.19           | Peak     | Horizontal   |
| 3   | 5763.87         | 87.6             | 6.74                 | 94.34           | 74             | 20.34           | Peak     | Horizontal   |
| 1   | 5715            | 42.5             | 6.84                 | 49.34           | 54             | -4.66           | AV       | Horizontal   |
| 2   | 5725            | 45.33            | 6.82                 | 52.15           | 54             | -1.85           | AV       | Horizontal   |
| 3   | 5745.93         | 76.95            | 6.77                 | 83.72           | 54             | 29.72           | AV       | Horizontal   |

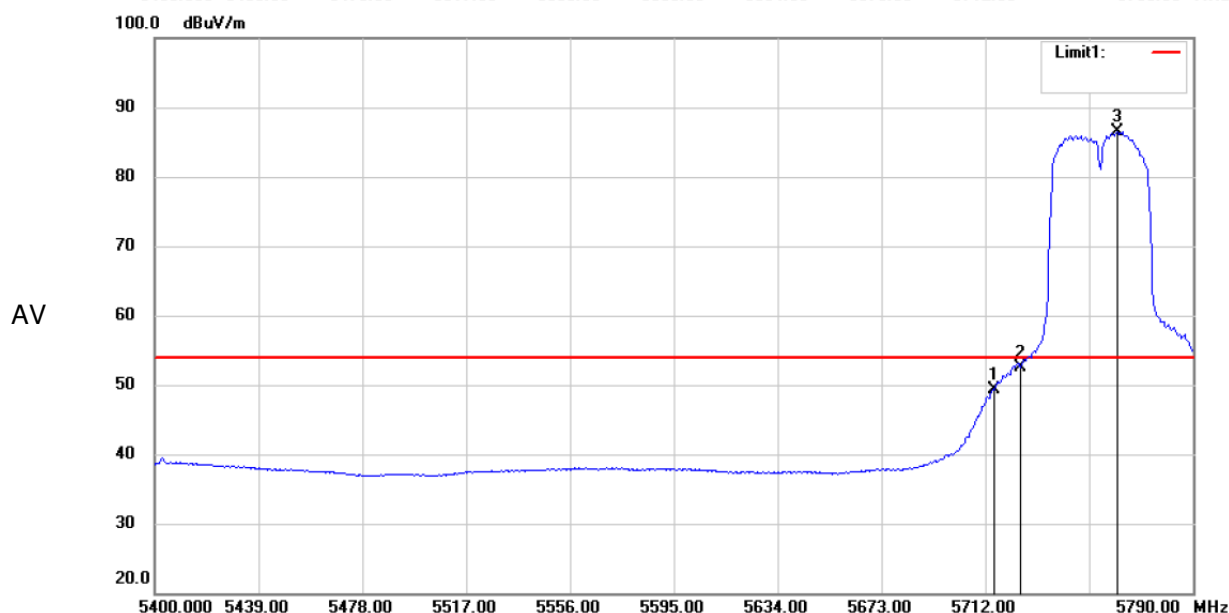
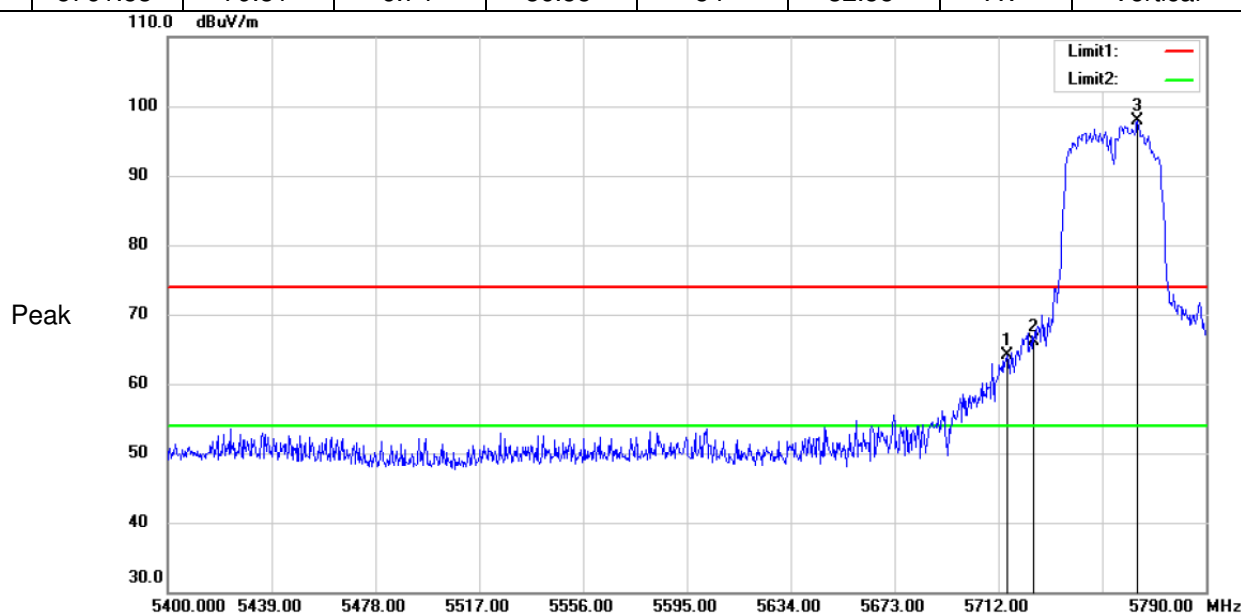


802.11 n(HT40)

Channel: 151

Fundamental frequency: 5755MHz

| MK. | Frequency (MHz) | Reading (dBuV/m) | Corrected factor(dB) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Polarization |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-----------------|----------|--------------|
| 1   | 5715            | 57.19            | 6.84                 | 64.03           | 74             | -9.97           | Peak     | Vertical     |
| 2   | 5725            | 59.37            | 6.82                 | 66.19           | 74             | -7.81           | Peak     | Vertical     |
| 3   | 5764.26         | 91.1             | 6.74                 | 97.84           | 74             | 23.84           | Peak     | Vertical     |
| 1   | 5715            | 42.49            | 6.84                 | 49.33           | 54             | -4.67           | AV       | Vertical     |
| 2   | 5725            | 45.78            | 6.82                 | 52.6            | 54             | -1.4            | AV       | Vertical     |
| 3   | 5761.53         | 79.81            | 6.74                 | 86.55           | 54             | 32.55           | AV       | Vertical     |

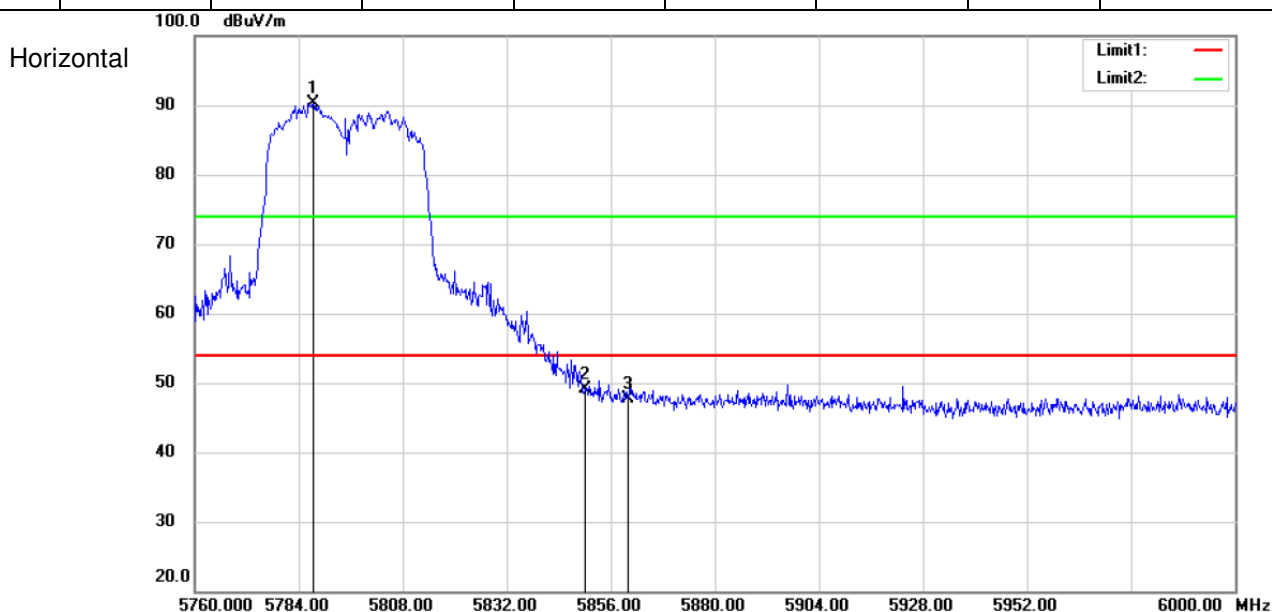


802.11 n(HT40)

Channel: 159

Fundamental frequency: 5795MHz

| MK. | Frequency (MHz) | Reading (dBuV/m) | Corrected factor(dB) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Polarization |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-----------------|----------|--------------|
| 1   | 5787.36         | 83.58            | 6.69                 | 90.27           | 54             | 36.27           | Peak     | Horizontal   |
| 2   | 5850            | 42.55            | 6.64                 | 49.19           | 54             | -4.81           | Peak     | Horizontal   |
| 3   | 5860            | 41.16            | 6.63                 | 47.79           | 54             | -6.21           | Peak     | Horizontal   |

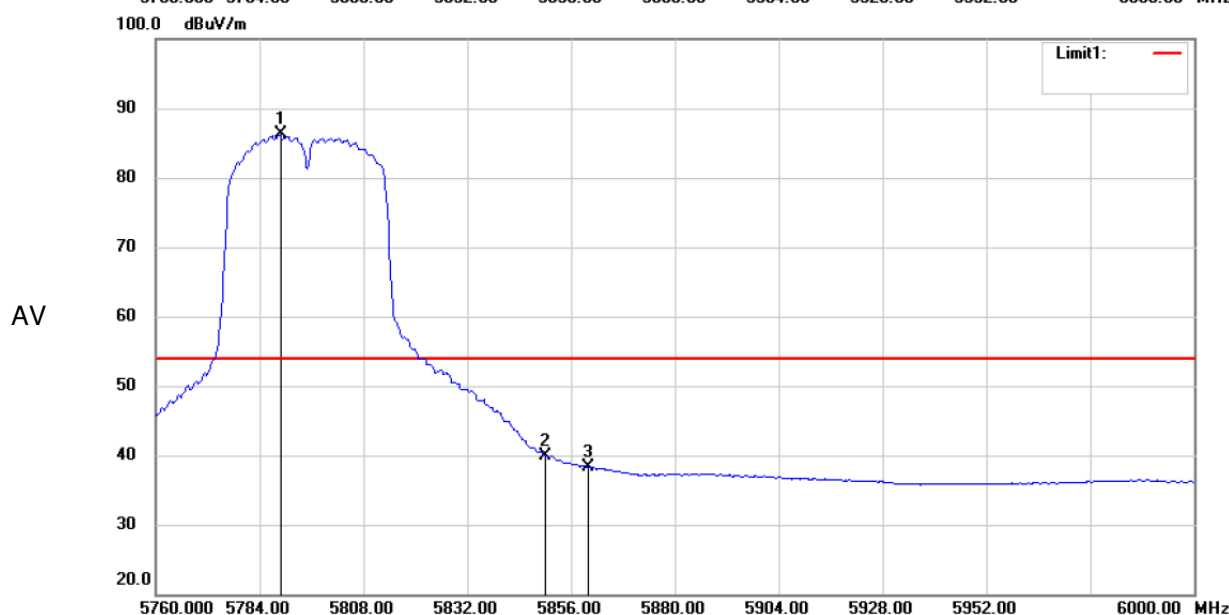
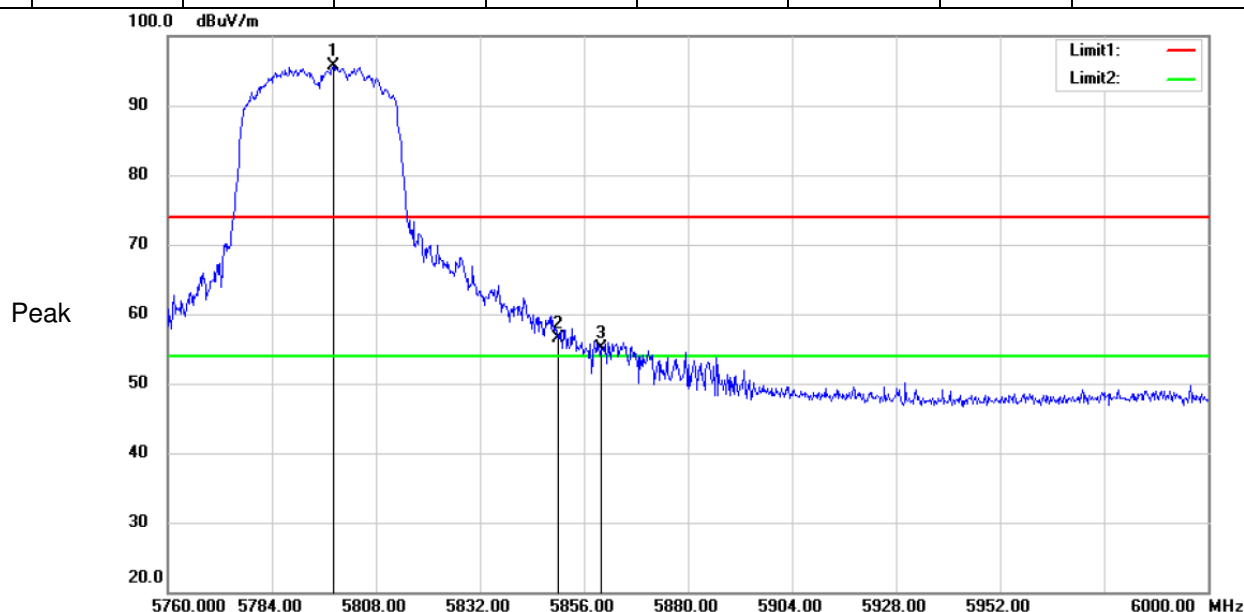


802.11 n(HT40)

Channel: 159

Fundamental frequency: 5795MHz

| MK. | Frequency (MHz) | Reading (dBuV/m) | Corrected factor(dB) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Polarization |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-----------------|----------|--------------|
| 1   | 5798.16         | 89.01            | 6.67                 | 95.68           | 74             | 21.68           | Peak     | Vertical     |
| 2   | 5850            | 49.83            | 6.64                 | 56.47           | 74             | -17.53          | Peak     | Vertical     |
| 3   | 5860            | 48.48            | 6.63                 | 55.11           | 74             | -18.89          | Peak     | Vertical     |
| 1   | 5788.8          | 79.53            | 6.69                 | 86.22           | 54             | 32.22           | AV       | Vertical     |
| 2   | 5850            | 33.2             | 6.64                 | 39.84           | 54             | -14.16          | AV       | Vertical     |
| 3   | 5860            | 31.57            | 6.63                 | 38.2            | 54             | -15.8           | AV       | Vertical     |

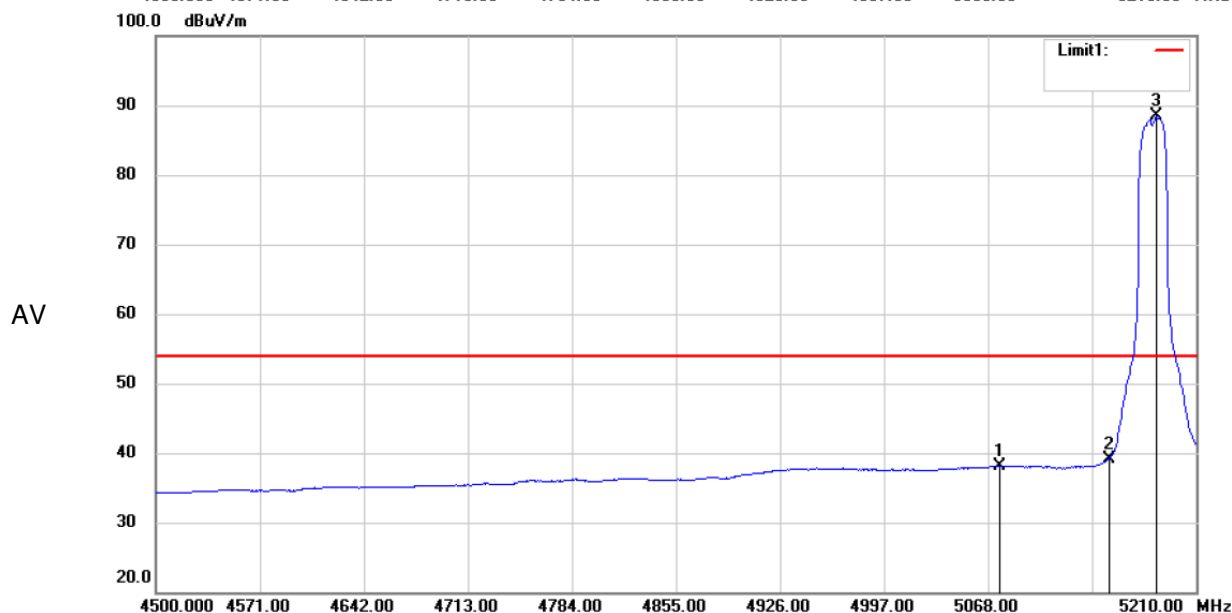
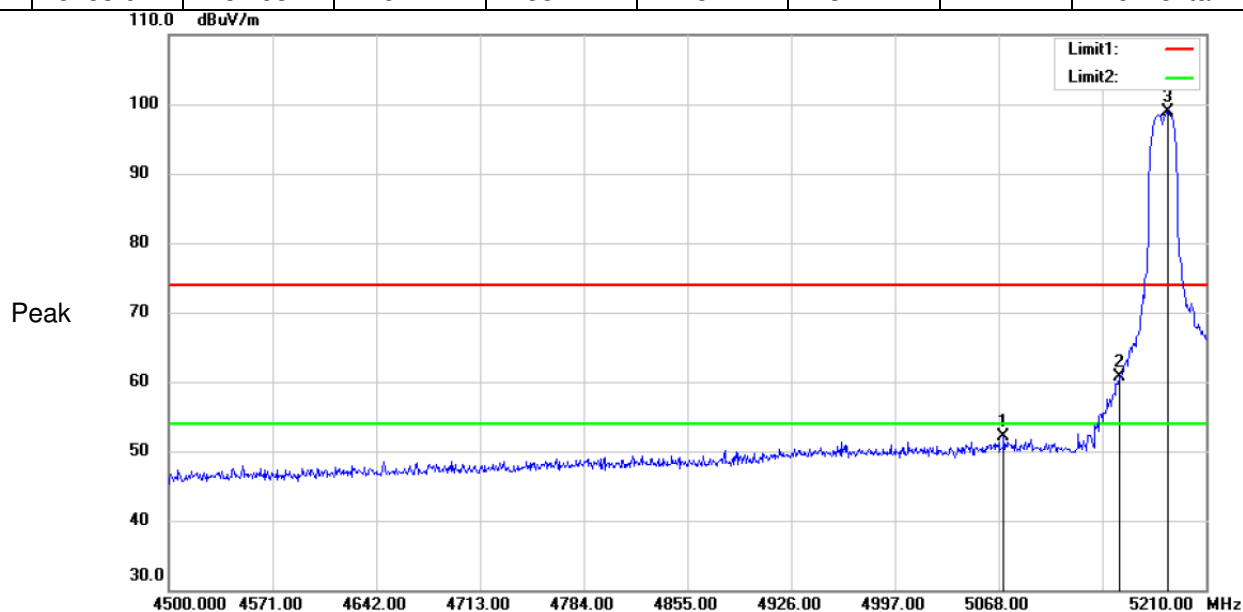


802.11 ac(VHT20)

Channel: 36

Fundamental frequency: 5180MHz

| MK. | Frequency (MHz) | Reading (dBuV/m) | Corrected factor(dB) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Polarization |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-----------------|----------|--------------|
| 1   | 5071.55         | 44.77            | 7.34                 | 52.11           | 74             | -21.89          | Peak     | Horizontal   |
| 2   | 5150            | 53.86            | 6.92                 | 60.78           | 74             | -13.22          | Peak     | Horizontal   |
| 3   | 5183.73         | 92.26            | 6.74                 | 99              | 74             | 25              | Peak     | Horizontal   |
| 1   | 5075.81         | 30.81            | 7.32                 | 38.13           | 54             | -15.87          | AV       | Horizontal   |
| 2   | 5150            | 32.1             | 6.92                 | 39.02           | 54             | -14.98          | AV       | Horizontal   |
| 3   | 5183.02         | 81.68            | 6.74                 | 88.42           | 54             | 34.42           | AV       | Horizontal   |

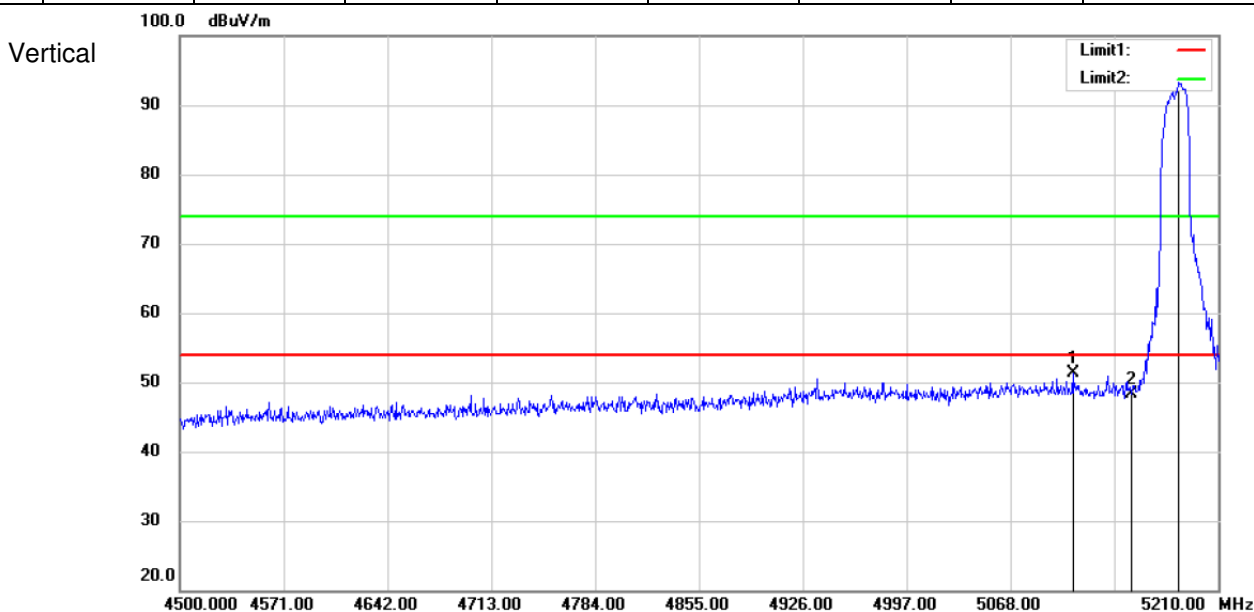


802.11 ac(VHT20)

Channel: 36

Fundamental frequency: 5180MHz

| MK. | Frequency (MHz) | Reading (dBUV/m) | Corrected factor(dB) | Result (dBUV/m) | Limit (dBUV/m) | Over Limit (dB) | Detector | Polarization |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-----------------|----------|--------------|
| 1   | 5110.6          | 44.22            | 7.15                 | 51.37           | 54             | -2.63           | Peak     | Vertical     |
| 2   | 5150            | 41.35            | 6.92                 | 48.27           | 54             | -5.73           | Peak     | Vertical     |
| 3   | 5183.02         | 86.56            | 6.74                 | 93.3            | 54             | 39.3            | Peak     | Vertical     |

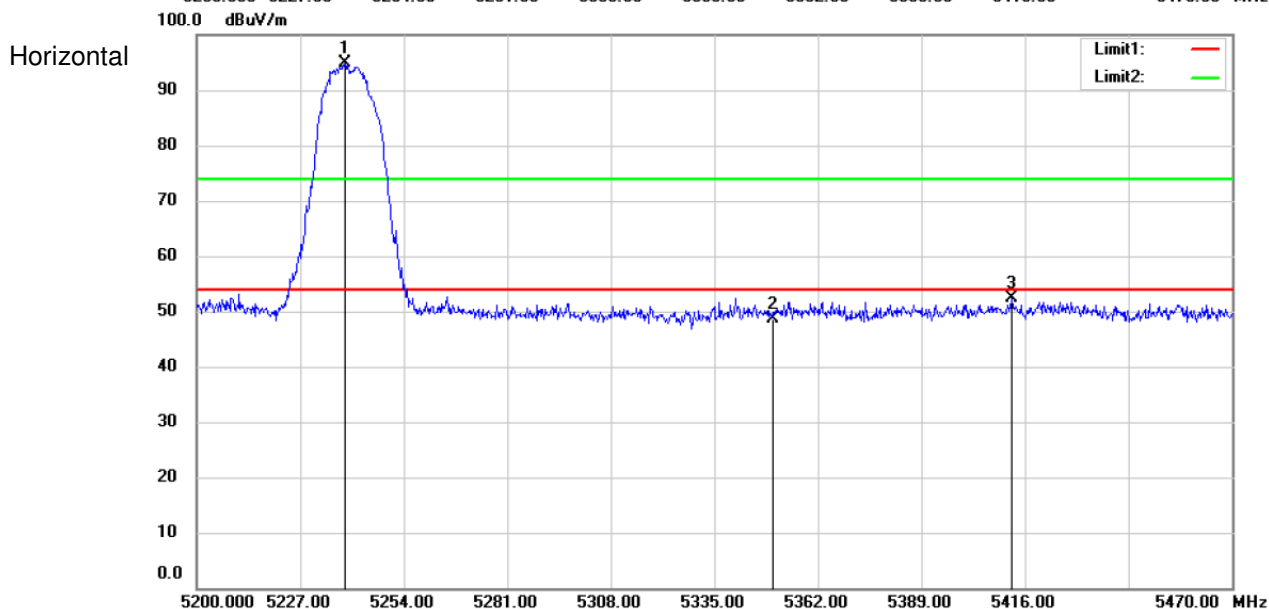
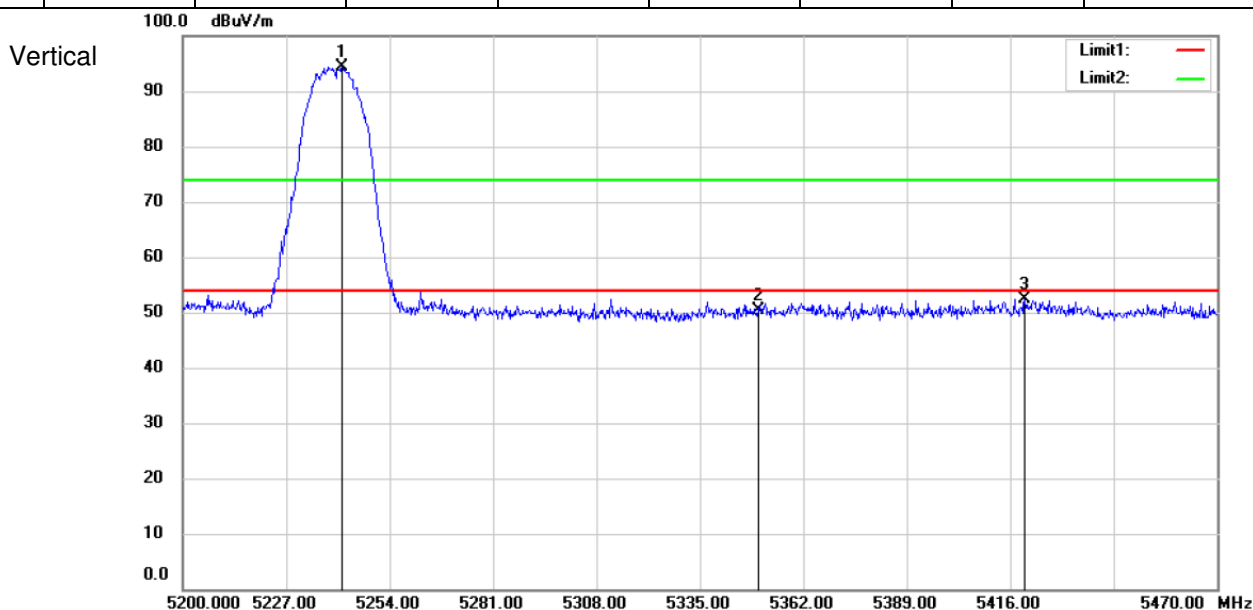


802.11 ac(VHT20)

Channel: 48

Fundamental frequency: 5240MHz

| MK. | Frequency (MHz) | Reading (dBuV/m) | Corrected factor(dB) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Polarization |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-----------------|----------|--------------|
| 1   | 5241.58         | 87.68            | 6.65                 | 94.33           | 54             | 40.33           | Peak     | Vertical     |
| 2   | 5350            | 43.35            | 6.98                 | 50.33           | 54             | -3.67           | Peak     | Vertical     |
| 3   | 5419.78         | 45.21            | 7.25                 | 52.46           | 54             | -1.54           | Peak     | Vertical     |
| 1   | 5238.61         | 88.24            | 6.65                 | 94.89           | 54             | 40.89           | Peak     | Horizontal   |
| 2   | 5350            | 41.77            | 6.98                 | 48.75           | 54             | -5.25           | Peak     | Horizontal   |
| 3   | 5412.49         | 45.12            | 7.28                 | 52.4            | 54             | -1.6            | Peak     | Horizontal   |

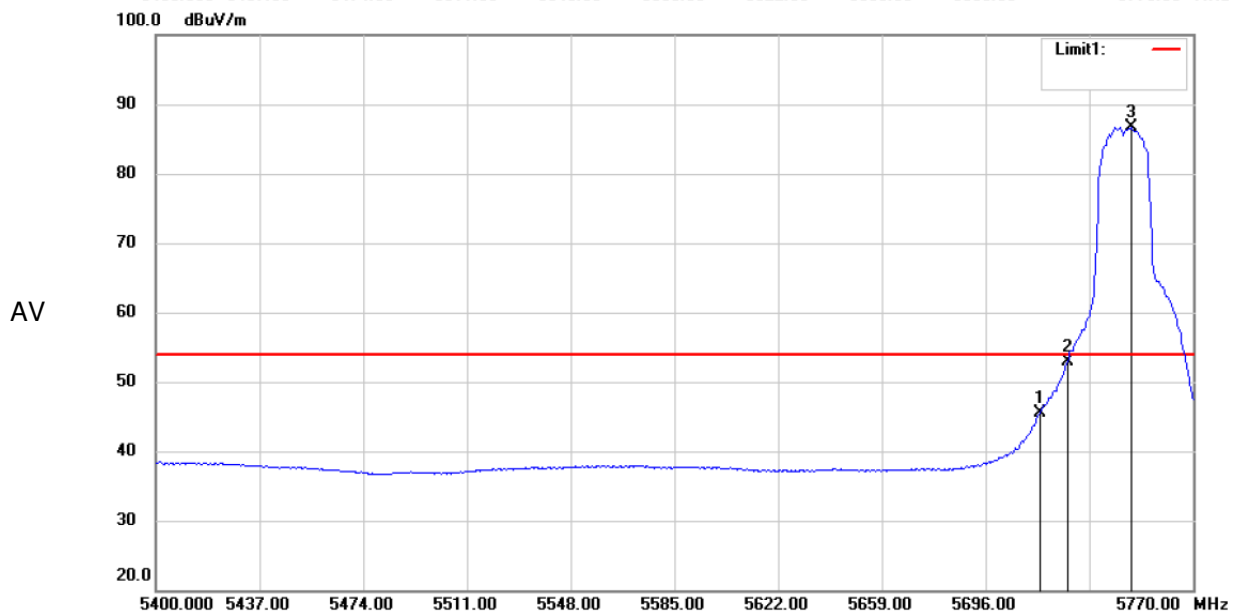
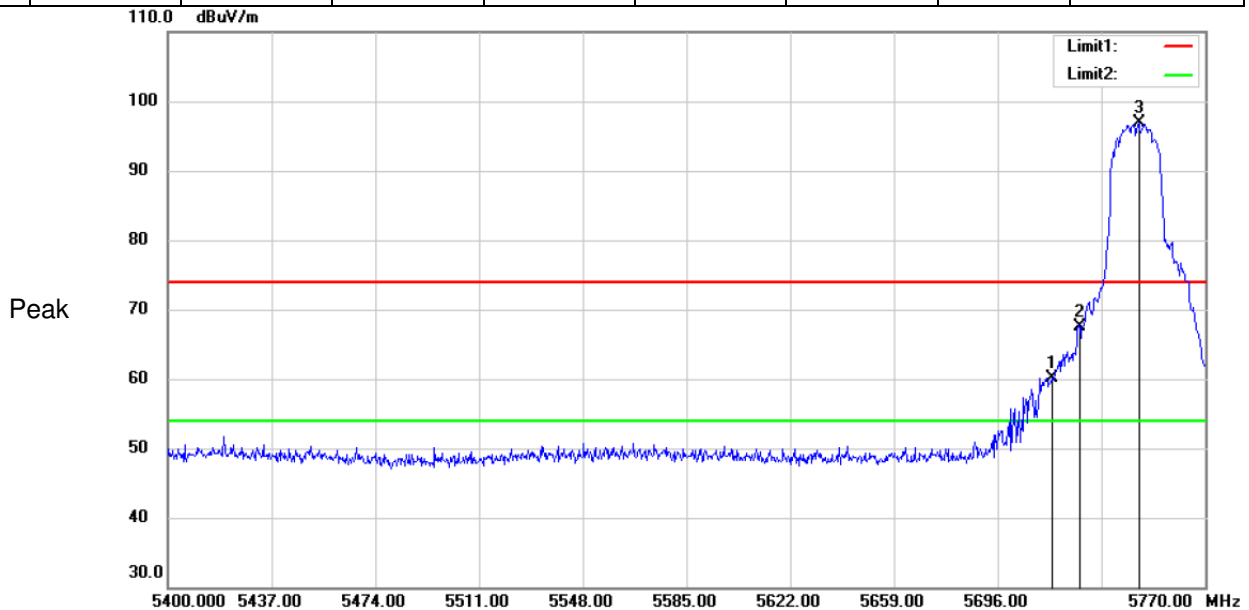


802.11 ac(VHT20)

Channel: 149

Fundamental frequency: 5745MHz

| MK. | Frequency (MHz) | Reading (dBUV/m) | Corrected factor(dB) | Result (dBUV/m) | Limit (dBUV/m) | Over Limit (dB) | Detector | Polarization |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-----------------|----------|--------------|
| 1   | 5715            | 53.18            | 6.84                 | 60.02           | 74             | -13.98          | Peak     | Horizontal   |
| 2   | 5725            | 60.67            | 6.82                 | 67.49           | 74             | -6.51           | Peak     | Horizontal   |
| 3   | 5746.32         | 90.12            | 6.77                 | 96.89           | 74             | 22.89           | Peak     | Horizontal   |
| 1   | 5715            | 38.6             | 6.84                 | 45.44           | 54             | -8.56           | AV       | Horizontal   |
| 2   | 5725            | 46               | 6.82                 | 52.82           | 54             | -1.18           | AV       | Horizontal   |
| 3   | 5747.8          | 80               | 6.77                 | 86.77           | 54             | 32.77           | AV       | Horizontal   |

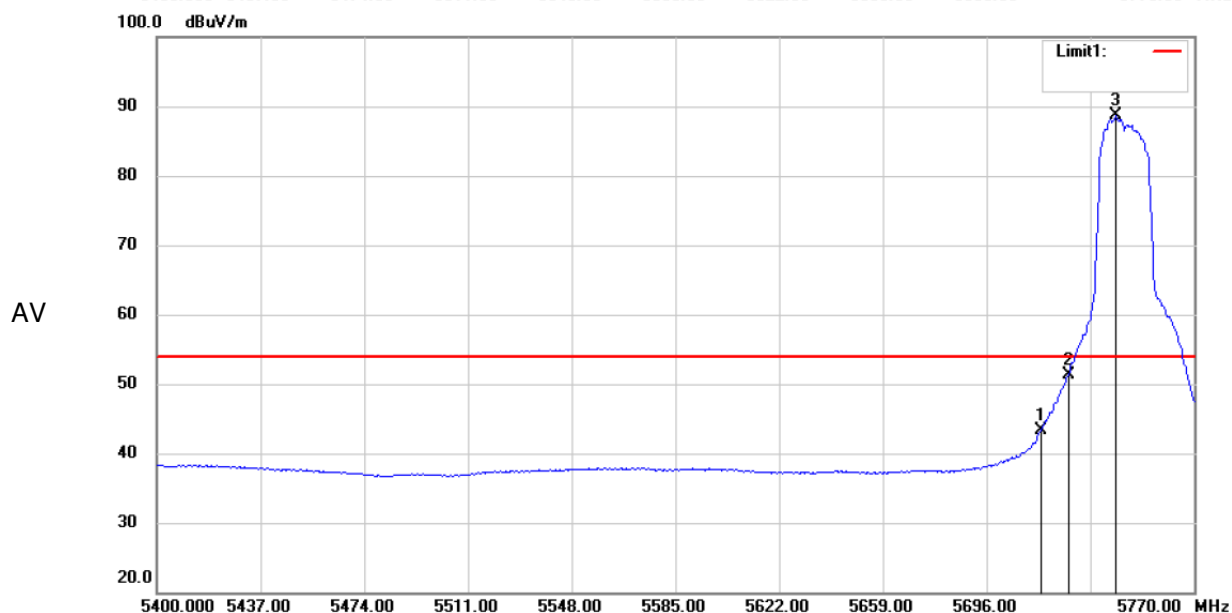
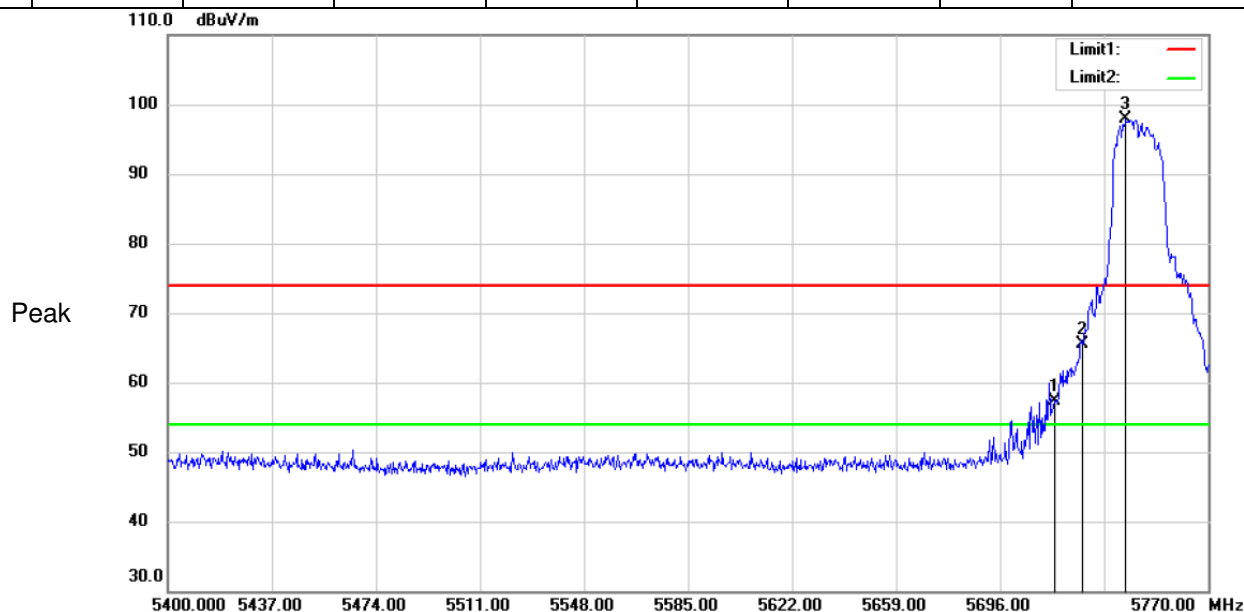


### 802.11 ac(VHT20)

Channel: 149

Fundamental frequency: 5745MHz

| MK. | Frequency (MHz) | Reading (dBuV/m) | Corrected factor(dB) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Polarization |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-----------------|----------|--------------|
| 1   | 5715            | 50.38            | 6.84                 | 57.22           | 74             | -16.78          | Peak     | Vertical     |
| 2   | 5725            | 58.66            | 6.82                 | 65.48           | 74             | -8.52           | Peak     | Vertical     |
| 3   | 5740.77         | 91.03            | 6.79                 | 97.82           | 74             | 23.82           | Peak     | Vertical     |
| 1   | 5715            | 36.43            | 6.84                 | 43.27           | 54             | -10.73          | AV       | Vertical     |
| 2   | 5725            | 44.51            | 6.82                 | 51.33           | 54             | -2.67           | AV       | Vertical     |
| 3   | 5742.25         | 81.84            | 6.79                 | 88.63           | 54             | 34.63           | AV       | Vertical     |

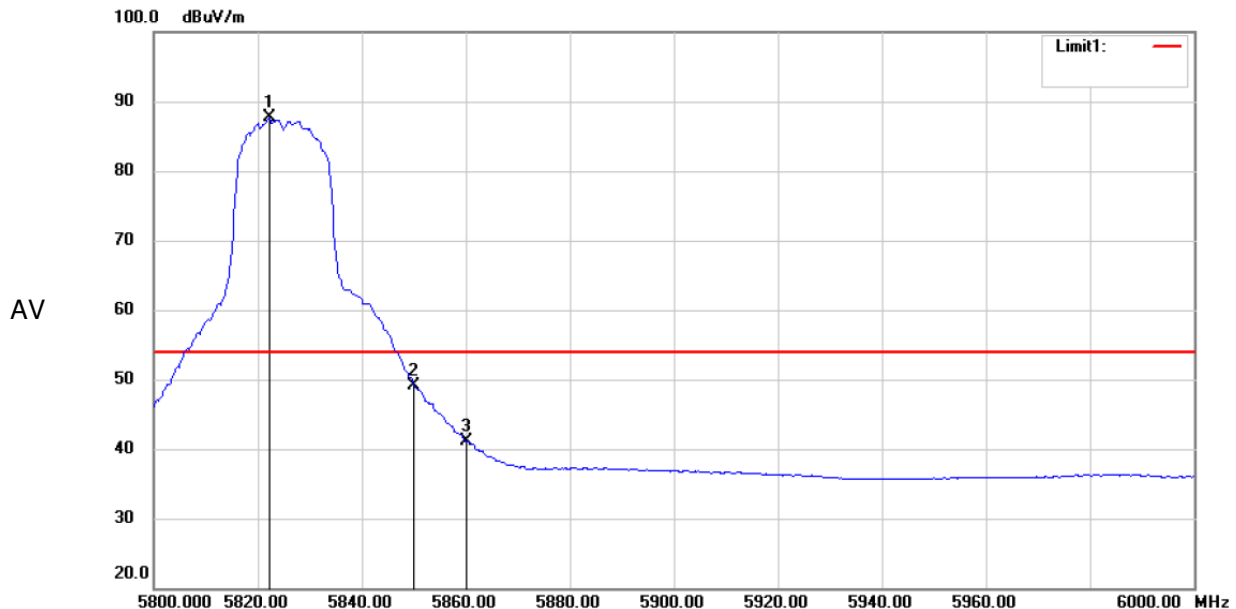
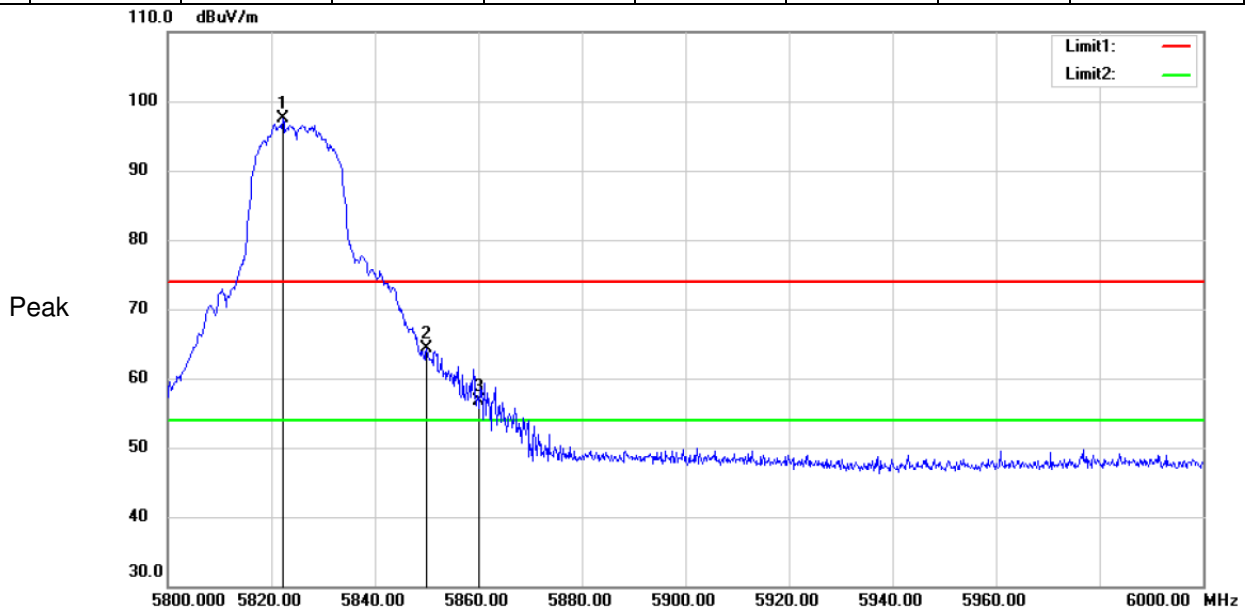


### 802.11 ac(VHT20)

Channel: 165

Fundamental frequency: 5825MHz

| MK. | Frequency (MHz) | Reading (dBuV/m) | Corrected factor(dB) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Polarization |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-----------------|----------|--------------|
| 1   | 5822.2          | 90.78            | 6.65                 | 97.43           | 74             | 23.43           | Peak     | Horizontal   |
| 2   | 5850            | 57.64            | 6.64                 | 64.28           | 74             | -9.72           | Peak     | Horizontal   |
| 3   | 5860            | 50.14            | 6.63                 | 56.77           | 74             | -17.23          | Peak     | Horizontal   |
| 1   | 5822.2          | 80.96            | 6.65                 | 87.61           | 54             | 33.61           | AV       | Horizontal   |
| 2   | 5850            | 42.45            | 6.64                 | 49.09           | 54             | -4.91           | AV       | Horizontal   |
| 3   | 5860            | 34.5             | 6.63                 | 41.13           | 54             | -12.87          | AV       | Horizontal   |

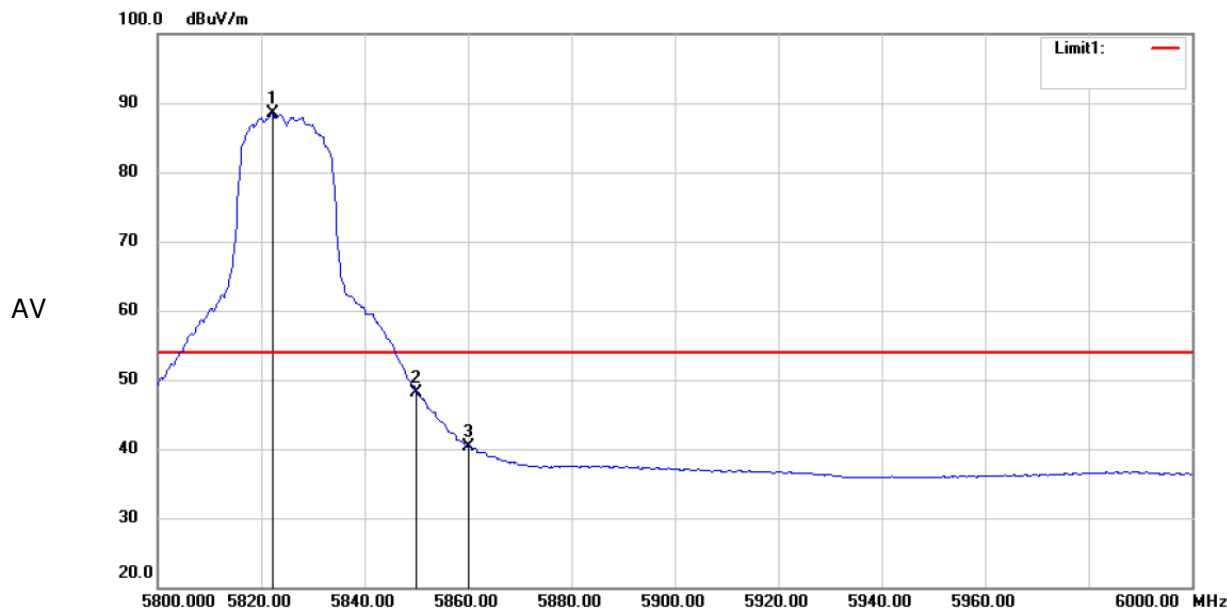
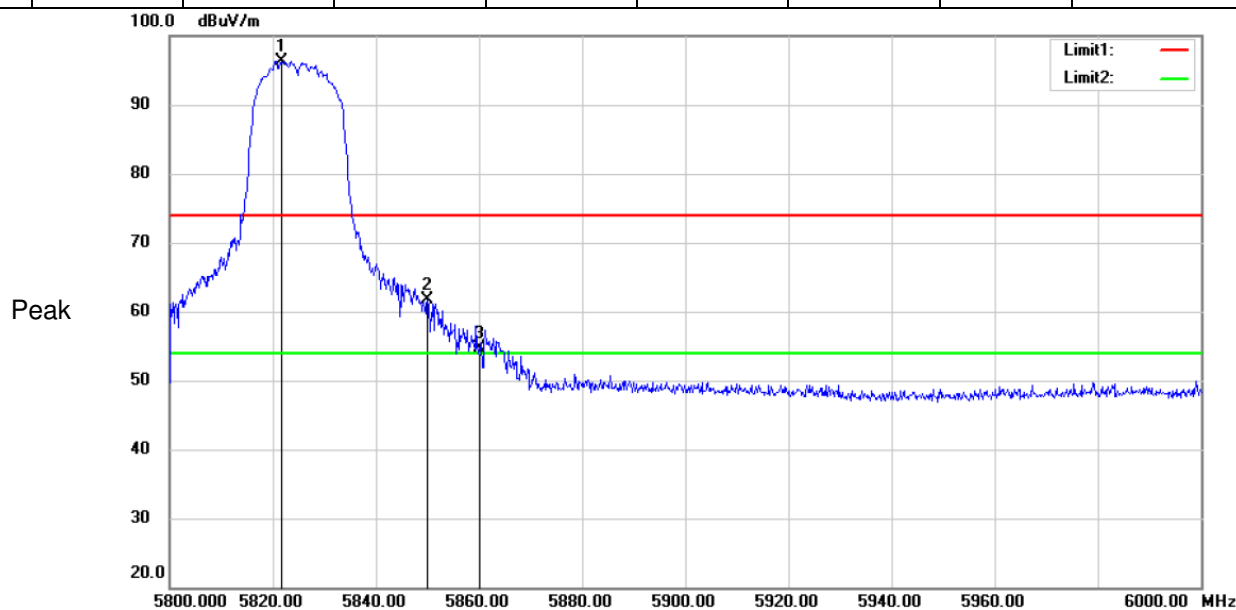


802.11 ac(VHT20)

Channel: 165

Fundamental frequency: 5825MHz

| MK. | Frequency (MHz) | Reading (dBUV/m) | Corrected factor(dB) | Result (dBUV/m) | Limit (dBUV/m) | Over Limit (dB) | Detector | Polarization |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-----------------|----------|--------------|
| 1   | 5821.8          | 89.72            | 6.65                 | 96.37           | 74             | 22.37           | Peak     | Vertical     |
| 2   | 5850            | 55.02            | 6.64                 | 61.66           | 74             | -12.34          | Peak     | Vertical     |
| 3   | 5860            | 48.06            | 6.63                 | 54.69           | 74             | -19.31          | Peak     | Vertical     |
| 1   | 5822.2          | 81.88            | 6.65                 | 88.53           | 54             | 34.53           | AV       | Vertical     |
| 2   | 5850            | 41.38            | 6.64                 | 48.02           | 54             | -5.98           | AV       | Vertical     |
| 3   | 5860            | 33.61            | 6.63                 | 40.24           | 54             | -13.76          | AV       | Vertical     |

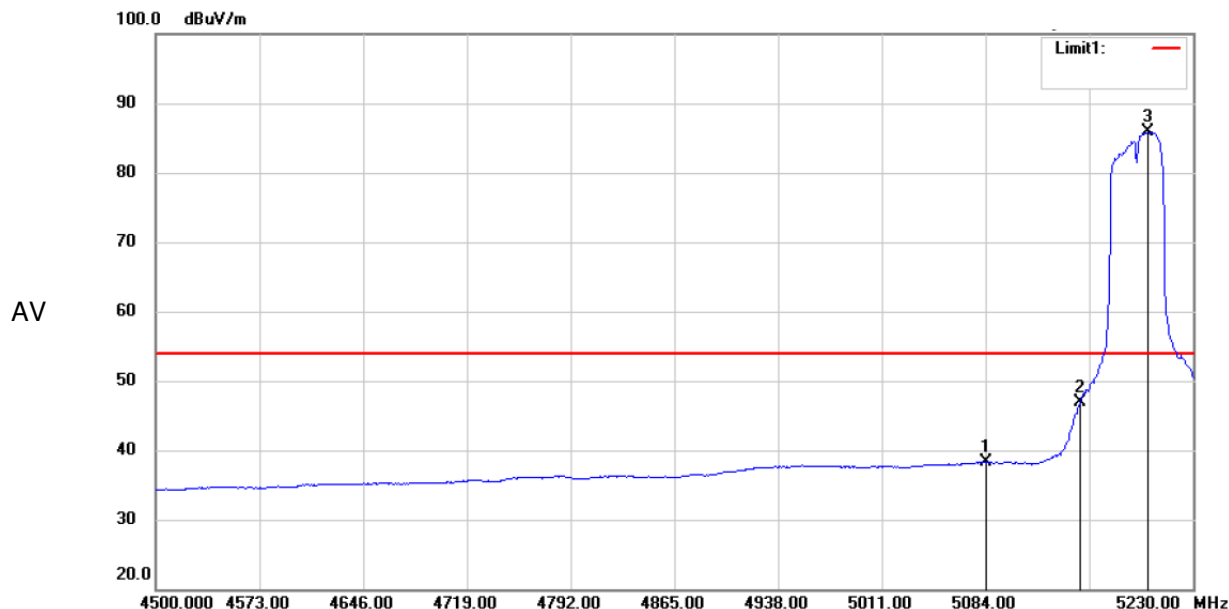
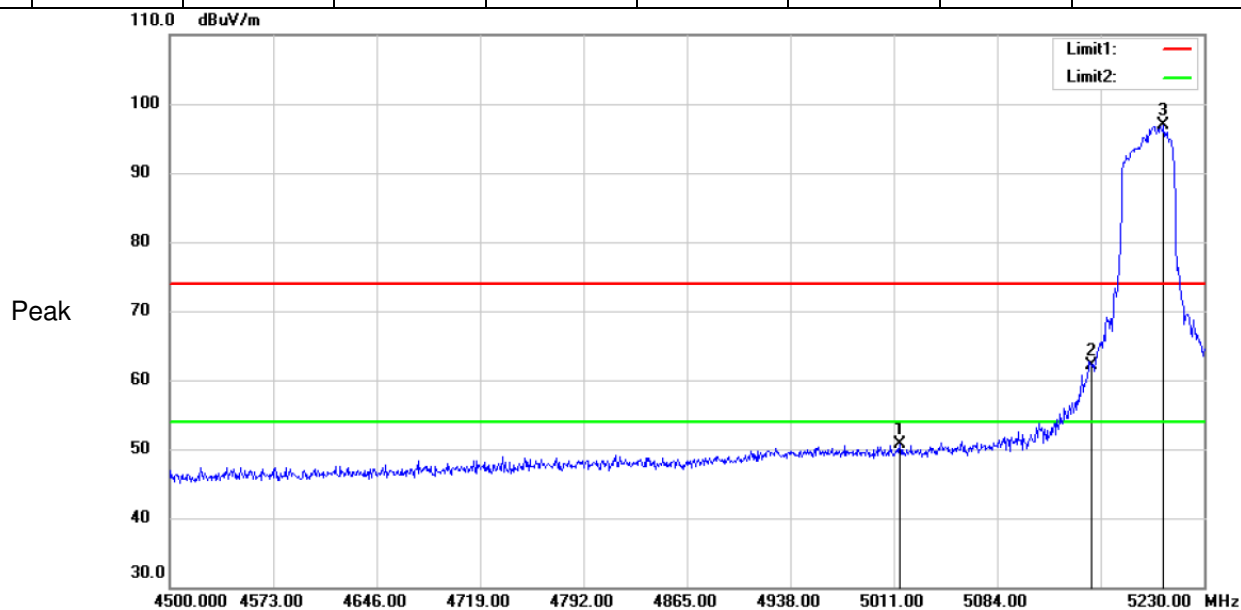


802.11 ac(VHT40)

Channel: 38

Fundamental frequency: 5190MHz

| MK. | Frequency (MHz) | Reading (dBuV/m) | Corrected factor(dB) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Polarization |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-----------------|----------|--------------|
| 1   | 5015.38         | 43.02            | 7.62                 | 50.64           | 74             | -23.36          | Peak     | Horizontal   |
| 2   | 5150            | 55.26            | 6.92                 | 62.18           | 74             | -11.82          | Peak     | Horizontal   |
| 3   | 5201.53         | 90.28            | 6.65                 | 96.93           | 74             | 22.93           | Peak     | Horizontal   |
| 1   | 5084            | 31.03            | 7.28                 | 38.31           | 54             | -15.69          | AV       | Horizontal   |
| 2   | 5150            | 39.98            | 6.92                 | 46.9            | 54             | -7.1            | AV       | Horizontal   |
| 3   | 5198.61         | 79.32            | 6.66                 | 85.98           | 54             | 31.98           | AV       | Horizontal   |

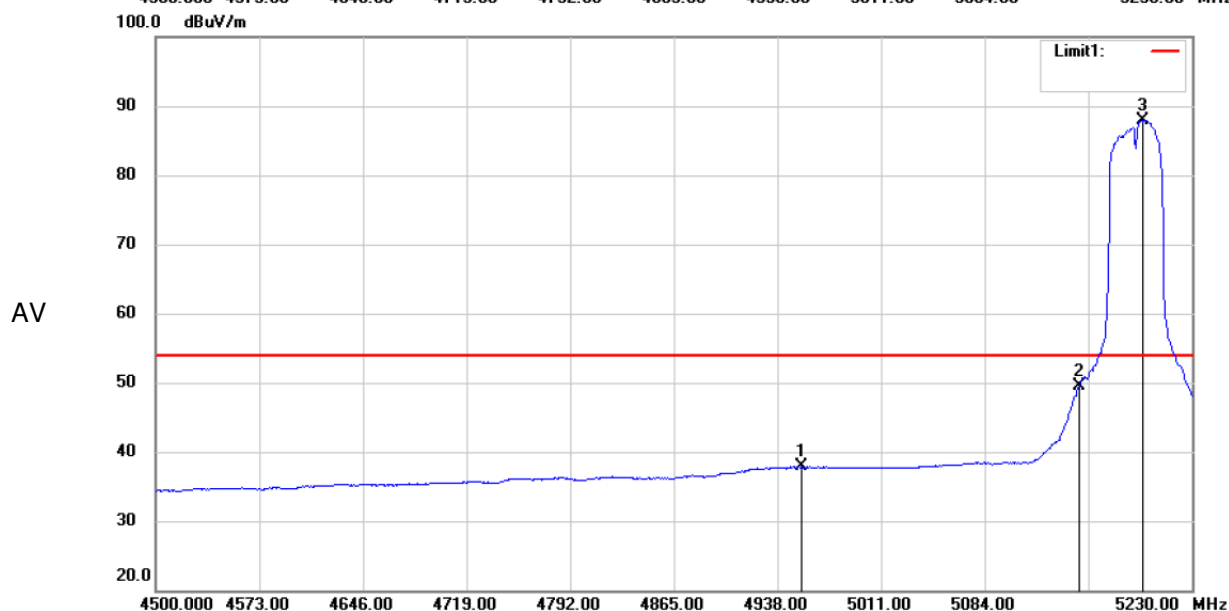
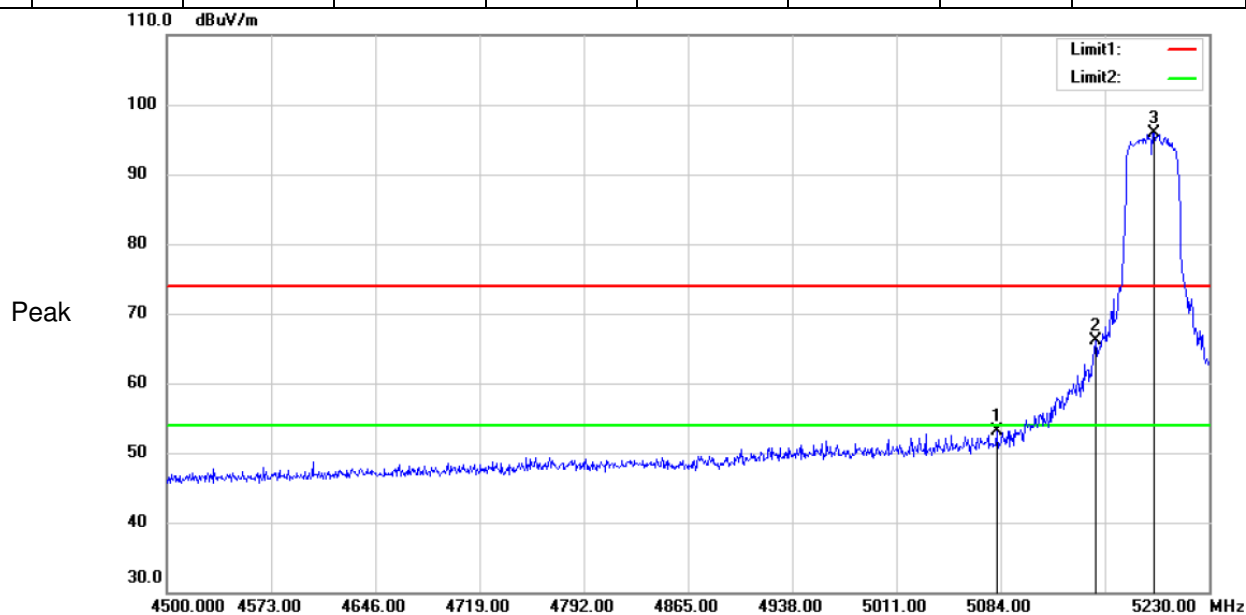


802.11 ac(VHT40)

Channel: 38

Fundamental frequency: 5190MHz

| MK. | Frequency (MHz) | Reading (dBuV/m) | Corrected factor(dB) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Polarization |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-----------------|----------|--------------|
| 1   | 5081.08         | 45.77            | 7.29                 | 53.06           | 74             | -20.94          | Peak     | Vertical     |
| 2   | 5150            | 59.13            | 6.92                 | 66.05           | 74             | -7.95           | Peak     | Vertical     |
| 3   | 5191.31         | 89.3             | 6.7                  | 96              | 74             | 22              | Peak     | Vertical     |
| 1   | 4954.79         | 30.42            | 7.47                 | 37.89           | 54             | -16.11          | AV       | Vertical     |
| 2   | 5150            | 42.63            | 6.92                 | 49.55           | 54             | -4.45           | AV       | Vertical     |
| 3   | 5194.96         | 81.3             | 6.68                 | 87.98           | 54             | 33.98           | AV       | Vertical     |

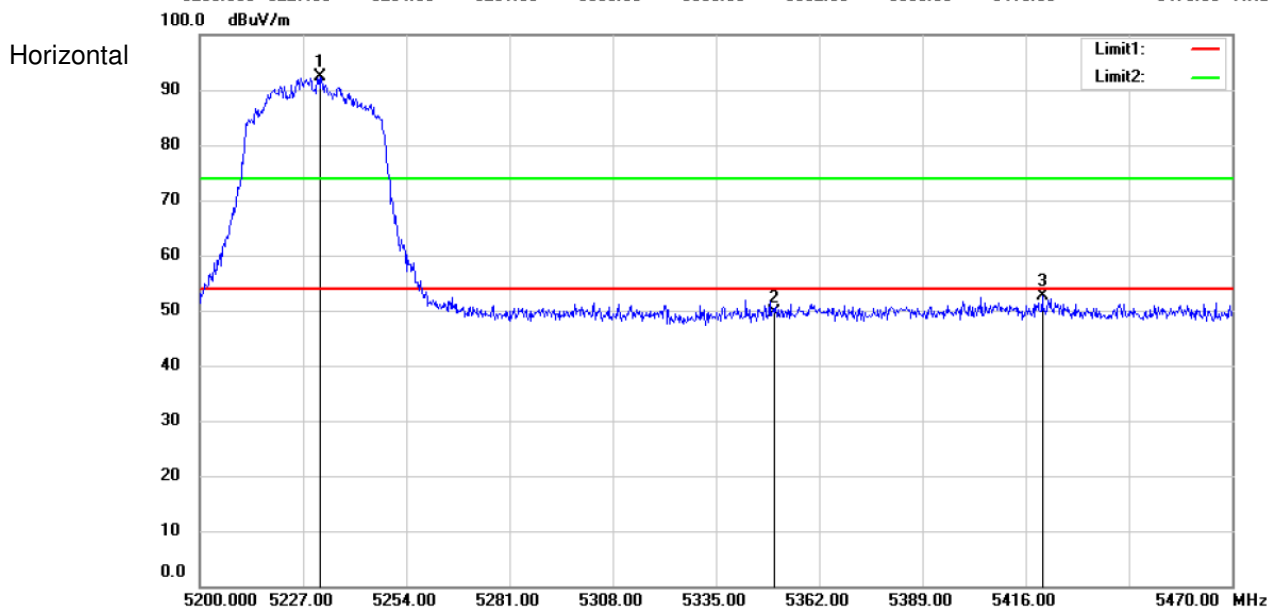
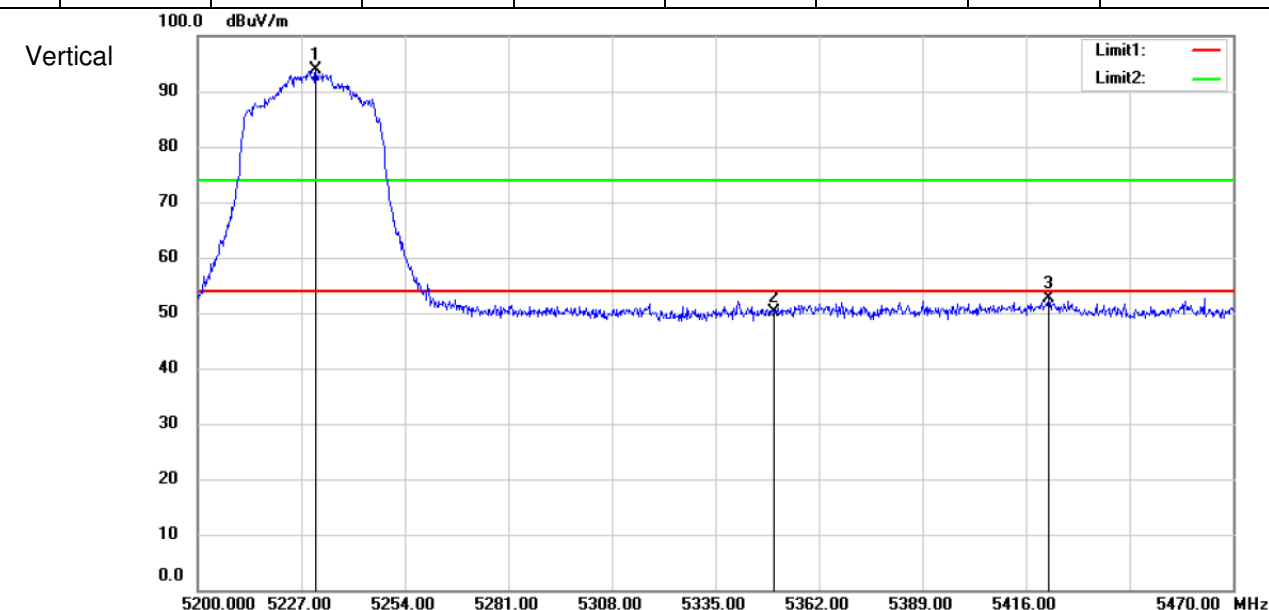


802.11 ac(VHT40)

Channel: 46

Fundamental frequency: 5230MHz

| MK. | Frequency (MHz) | Reading (dBUV/m) | Corrected factor(dB) | Result (dBUV/m) | Limit (dBUV/m) | Over Limit (dB) | Detector | Polarization |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-----------------|----------|--------------|
| 1   | 5230.78         | 87.18            | 6.65                 | 93.83           | 54             | 39.83           | Peak     | Vertical     |
| 2   | 5350            | 43.19            | 6.98                 | 50.17           | 54             | -3.83           | Peak     | Vertical     |
| 3   | 5421.94         | 45.45            | 7.25                 | 52.7            | 54             | -1.3            | Peak     | Vertical     |
| 1   | 5231.59         | 85.74            | 6.65                 | 92.39           | 54             | 38.39           | Peak     | Horizontal   |
| 2   | 5350            | 42.54            | 6.98                 | 49.52           | 54             | -4.48           | Peak     | Horizontal   |
| 3   | 5420.32         | 45.38            | 7.25                 | 52.63           | 54             | -1.37           | Peak     | Horizontal   |

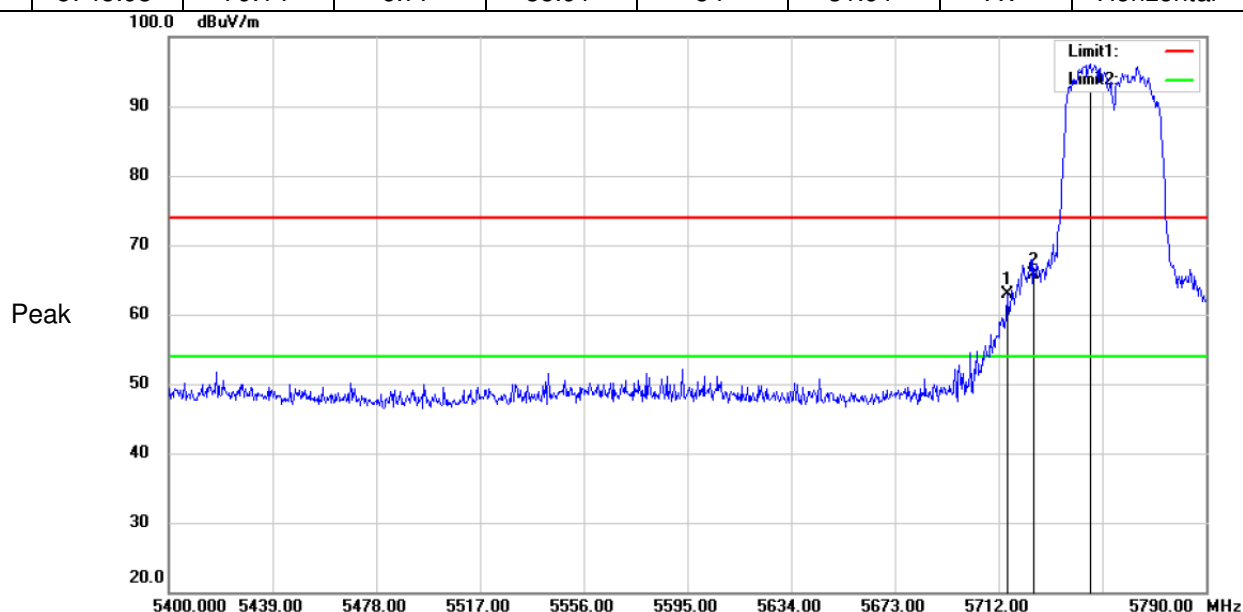


### 802.11 ac(VHT40)

Channel: 151

Fundamental frequency: 5755MHz

| MK. | Frequency (MHz) | Reading (dBuV/m) | Corrected factor(dB) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Polarization |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-----------------|----------|--------------|
| 1   | 5715            | 55.97            | 6.84                 | 62.81           | 74             | -11.19          | Peak     | Horizontal   |
| 2   | 5725            | 58.8             | 6.82                 | 65.62           | 74             | -8.38           | Peak     | Horizontal   |
| 3   | 5746.32         | 89.39            | 6.77                 | 96.16           | 74             | 22.16           | Peak     | Horizontal   |
| 1   | 5715            | 41.29            | 6.84                 | 48.13           | 54             | -5.87           | AV       | Horizontal   |
| 2   | 5725            | 45.77            | 6.82                 | 52.59           | 54             | -1.41           | AV       | Horizontal   |
| 3   | 5745.93         | 79.14            | 6.77                 | 85.91           | 54             | 31.91           | AV       | Horizontal   |

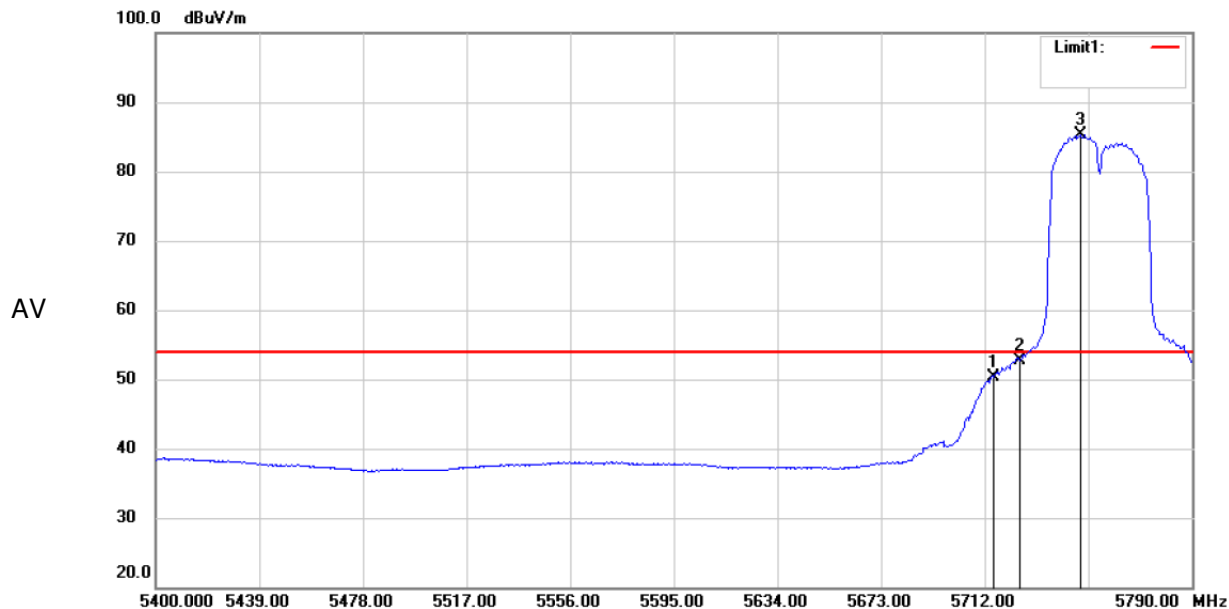
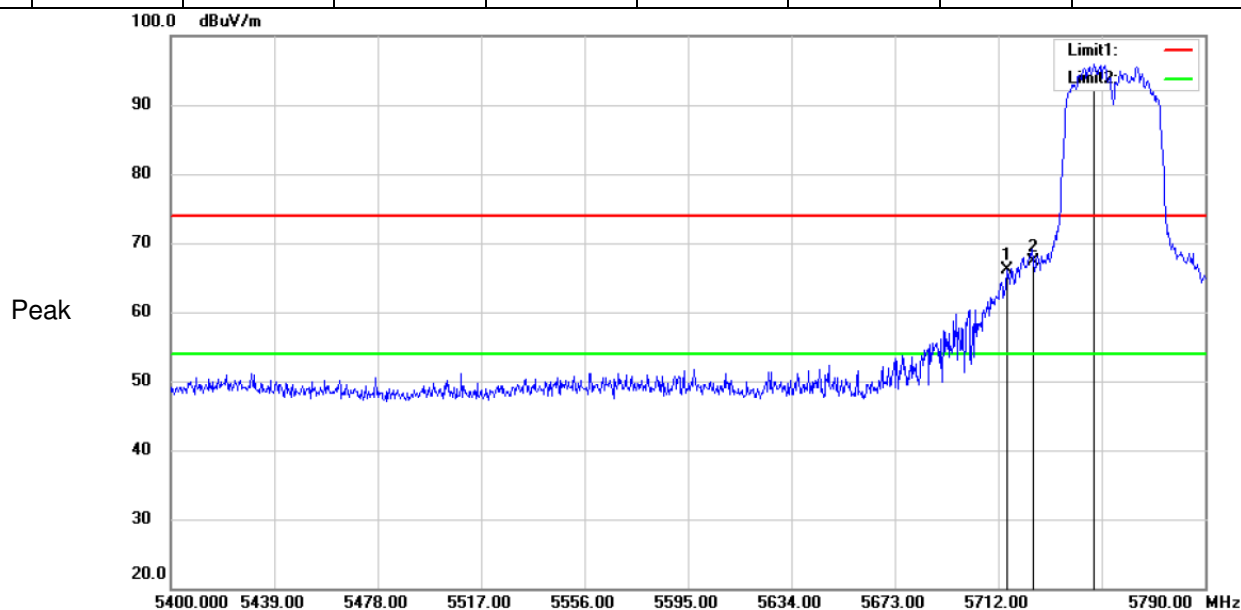


### 802.11 ac(VHT40)

Channel: 151

Fundamental frequency: 5755MHz

| MK. | Frequency (MHz) | Reading (dBuV/m) | Corrected factor(dB) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Polarization |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-----------------|----------|--------------|
| 1   | 5715            | 59.2             | 6.84                 | 66.04           | 74             | -7.96           | Peak     | Vertical     |
| 2   | 5725            | 60.53            | 6.82                 | 67.35           | 74             | -6.65           | Peak     | Vertical     |
| 3   | 5748.27         | 89.14            | 6.77                 | 95.91           | 74             | 21.91           | Peak     | Vertical     |
| 1   | 5715            | 43.56            | 6.84                 | 50.4            | 54             | -3.6            | AV       | Vertical     |
| 2   | 5725            | 45.83            | 6.82                 | 52.65           | 54             | -1.35           | AV       | Vertical     |
| 3   | 5747.88         | 78.6             | 6.77                 | 85.37           | 54             | 31.37           | AV       | Vertical     |

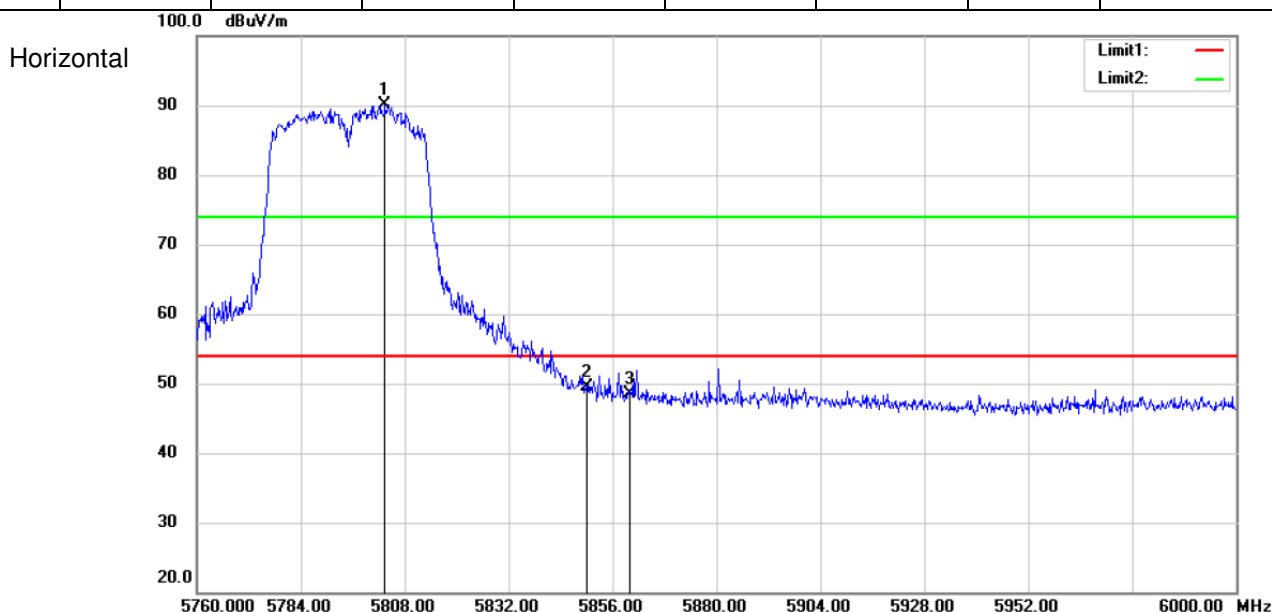


802.11 ac(VHT40)

Channel: 159

Fundamental frequency: 5795MHz

| MK. | Frequency (MHz) | Reading (dBuV/m) | Corrected factor(dB) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Polarization |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-----------------|----------|--------------|
| 1   | 5803.44         | 83.51            | 6.67                 | 90.18           | 54             | 36.18           | Peak     | Horizontal   |
| 2   | 5850            | 42.82            | 6.64                 | 49.46           | 54             | -4.54           | Peak     | Horizontal   |
| 3   | 5860            | 41.92            | 6.63                 | 48.55           | 54             | -5.45           | Peak     | Horizontal   |

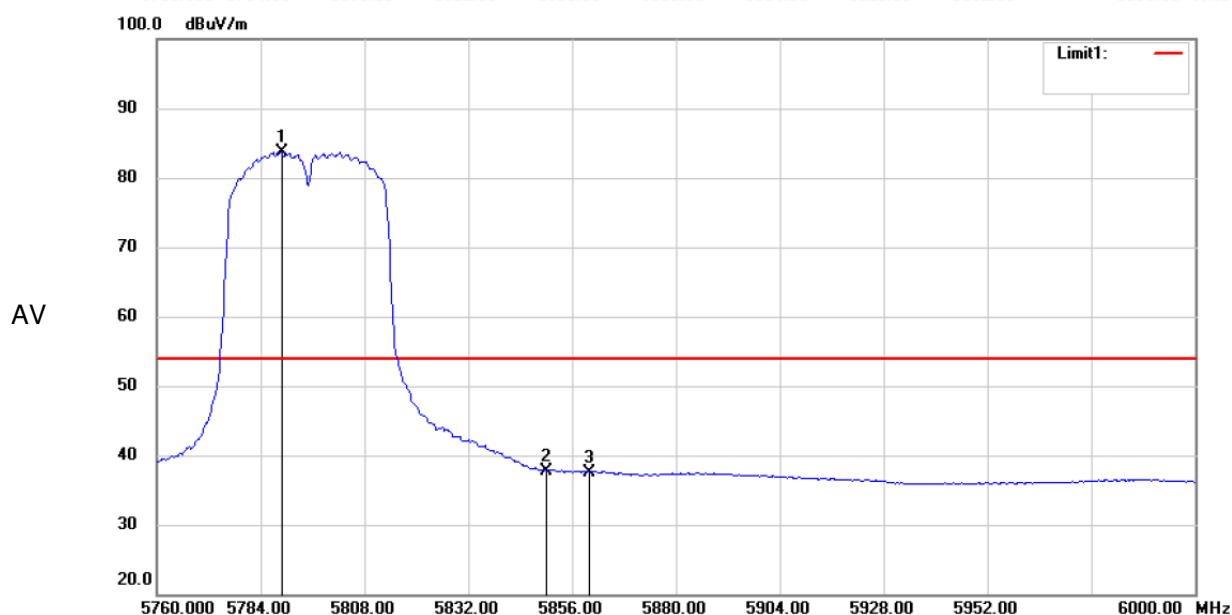
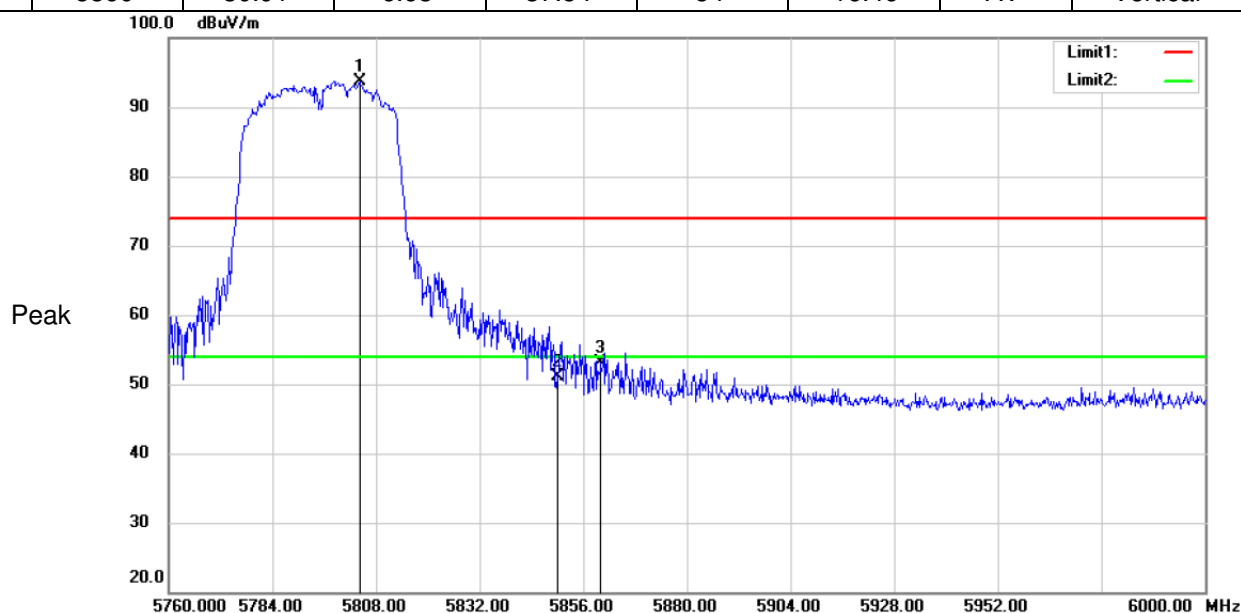


### 802.11 ac(VHT40)

Channel: 159

Fundamental frequency: 5795MHz

| MK. | Frequency (MHz) | Reading (dBuV/m) | Corrected factor(dB) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Polarization |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-----------------|----------|--------------|
| 1   | 5804.16         | 87.08            | 6.67                 | 93.75           | 74             | 19.75           | Peak     | Vertical     |
| 2   | 5850            | 44.4             | 6.64                 | 51.04           | 74             | -22.96          | Peak     | Vertical     |
| 3   | 5860            | 46.56            | 6.63                 | 53.19           | 74             | -20.81          | Peak     | Vertical     |
| 1   | 5788.8          | 77.06            | 6.69                 | 83.75           | 54             | 29.75           | AV       | Vertical     |
| 2   | 5850            | 31.09            | 6.64                 | 37.73           | 54             | -16.27          | AV       | Vertical     |
| 3   | 5860            | 30.91            | 6.63                 | 37.54           | 54             | -16.46          | AV       | Vertical     |

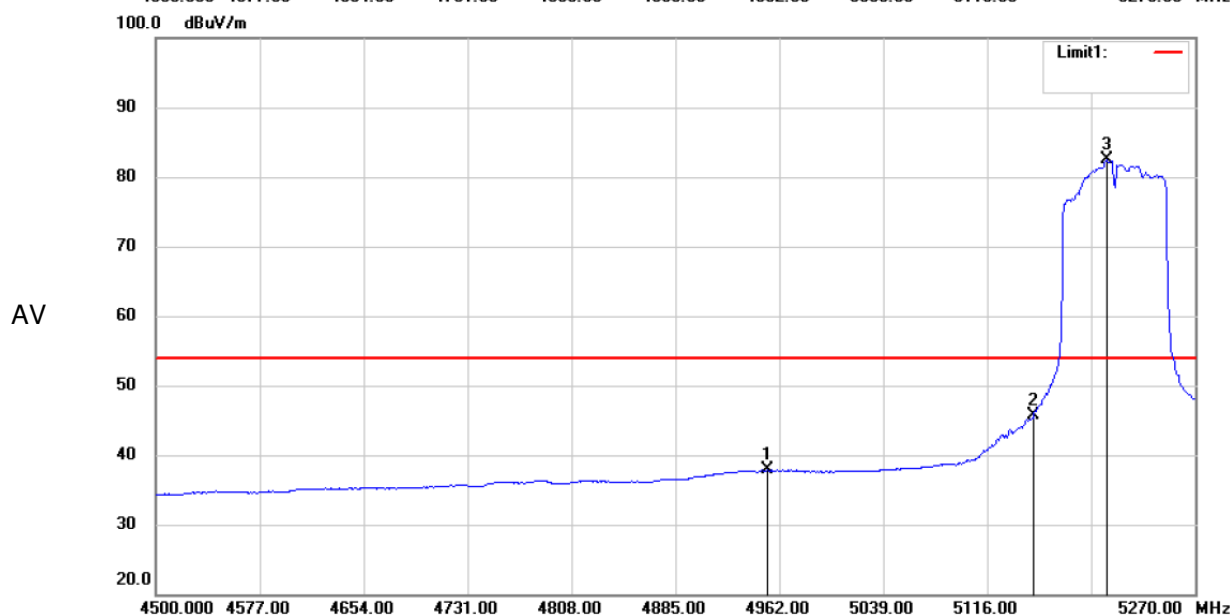
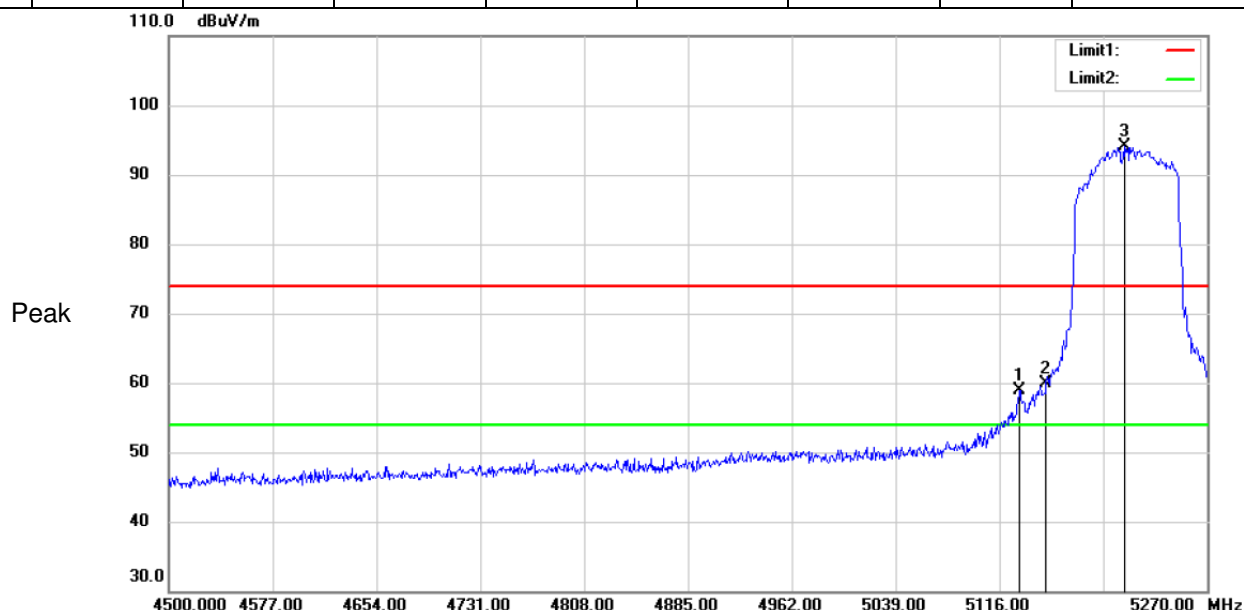


802.11 ac(VHT80)

Channel: 42

Fundamental frequency: 5210MHz - Left

| MK. | Frequency (MHz) | Reading (dBuV/m) | Corrected factor(dB) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Polarization |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-----------------|----------|--------------|
| 1   | 5130.63         | 51.8             | 7.04                 | 58.84           | 74             | -15.16          | Peak     | Horizontal   |
| 2   | 5150            | 52.94            | 6.92                 | 59.86           | 74             | -14.14          | Peak     | Horizontal   |
| 3   | 5208.4          | 87.41            | 6.64                 | 94.05           | 74             | 20.05           | Peak     | Horizontal   |
| 1   | 4952.76         | 30.43            | 7.45                 | 37.88           | 54             | -16.12          | AV       | Horizontal   |
| 2   | 5150            | 38.88            | 6.92                 | 45.8            | 54             | -8.2            | AV       | Horizontal   |
| 3   | 5204.55         | 75.77            | 6.65                 | 82.42           | 54             | 28.42           | AV       | Horizontal   |

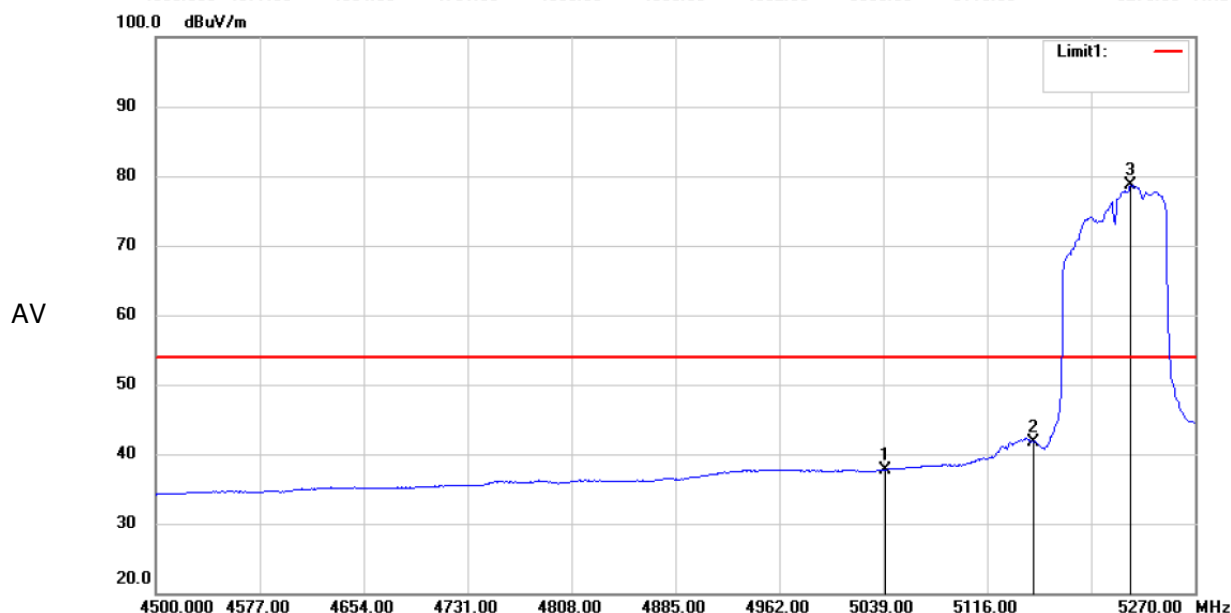
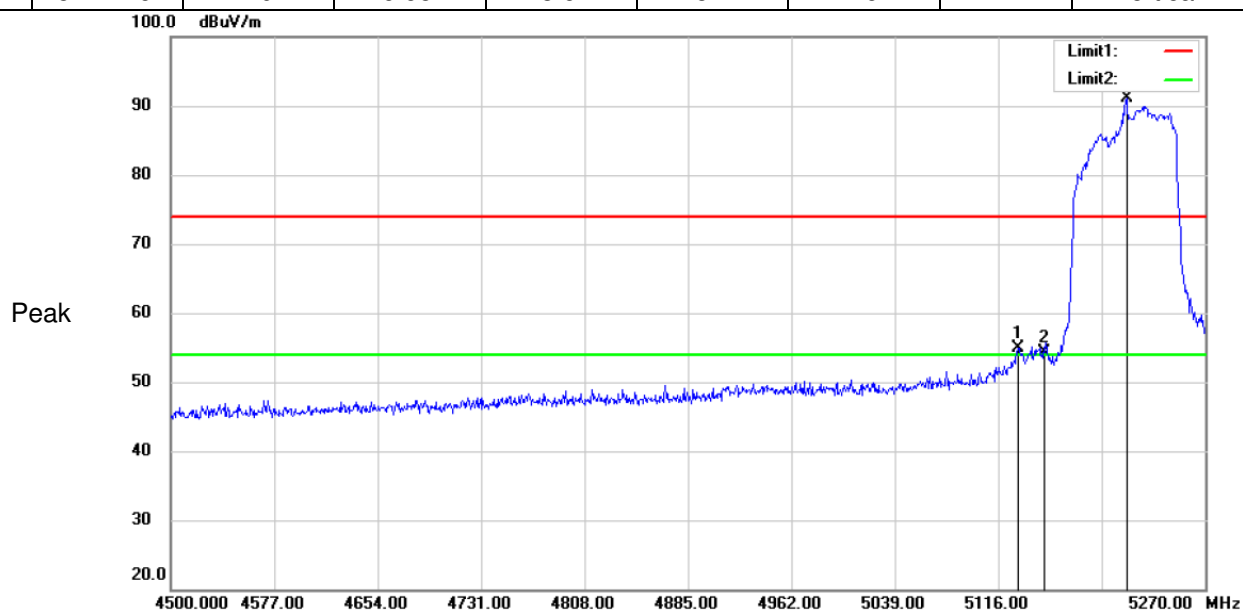


802.11 ac(VHT80)

Channel: 42

Fundamental frequency: 5210MHz -Left

| MK. | Frequency (MHz) | Reading (dBuV/m) | Corrected factor(dB) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Polarization |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-----------------|----------|--------------|
| 1   | 5130.63         | 47.93            | 7.04                 | 54.97           | 74             | -19.03          | Peak     | Vertical     |
| 2   | 5150            | 47.41            | 6.92                 | 54.33           | 74             | -19.67          | Peak     | Vertical     |
| 3   | 5211.48         | 84.37            | 6.66                 | 91.03           | 74             | 17.03           | Peak     | Vertical     |
| 1   | 5040.54         | 30.28            | 7.5                  | 37.78           | 54             | -16.22          | AV       | Vertical     |
| 2   | 5150            | 34.84            | 6.92                 | 41.76           | 54             | -12.24          | AV       | Vertical     |
| 3   | 5222.26         | 72.02            | 6.65                 | 78.67           | 54             | 24.67           | AV       | Vertical     |

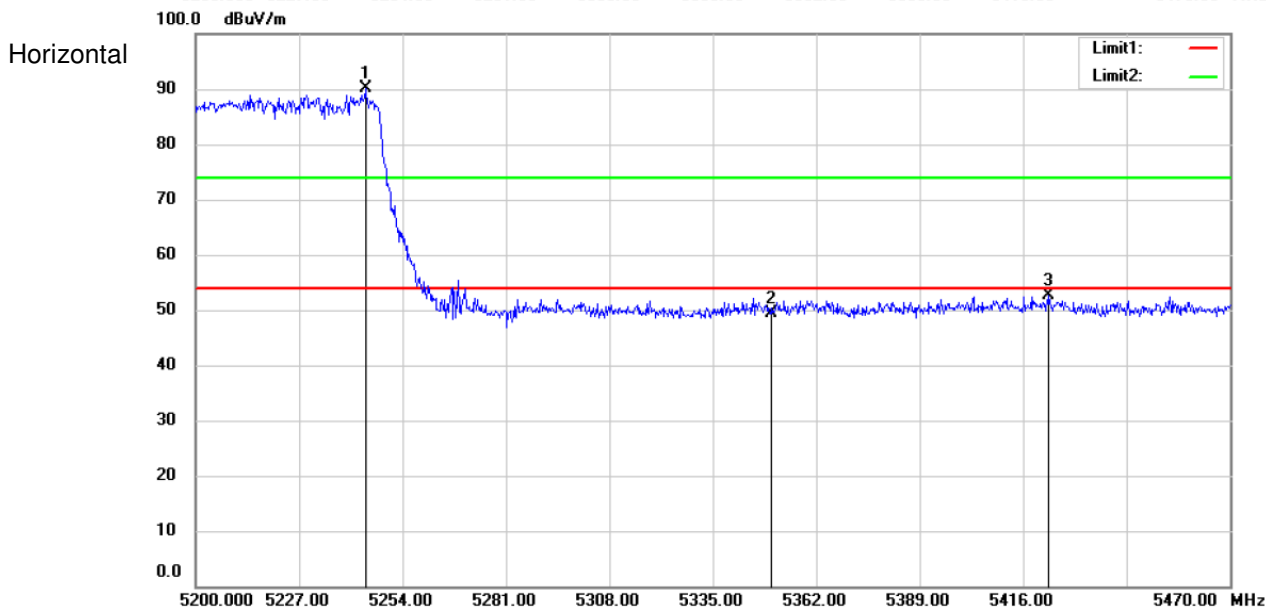
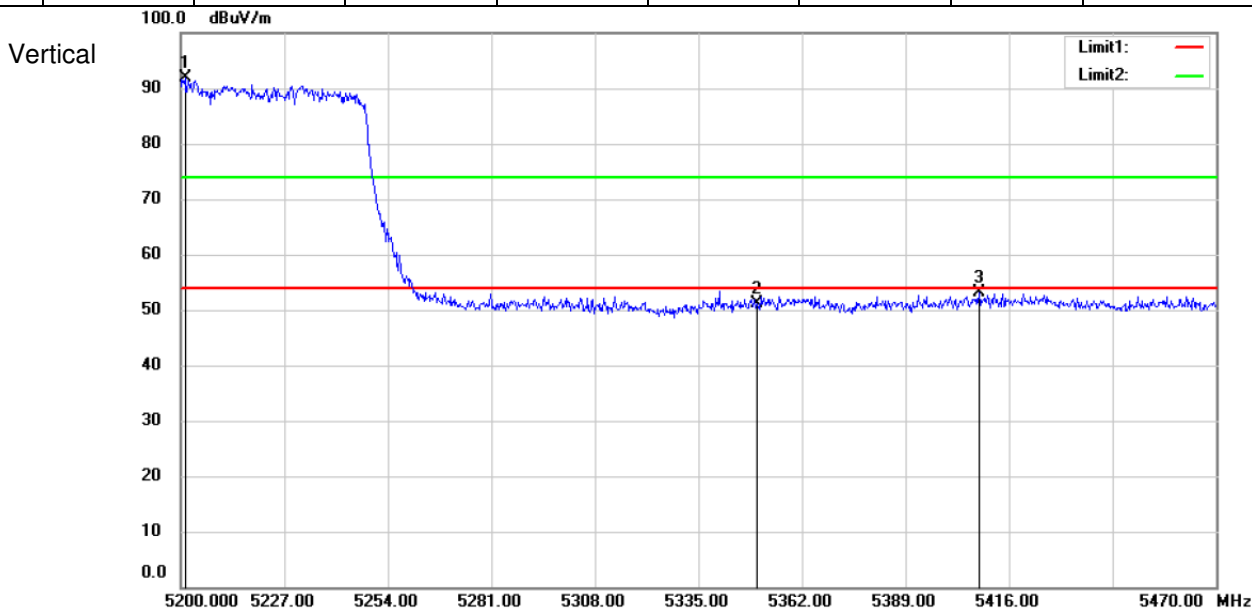


802.11 ac(VHT80)

Channel: 42

Fundamental frequency: 5210MHz -Right

| MK. | Frequency (MHz) | Reading (dBUV/m) | Corrected factor(dB) | Result (dBUV/m) | Limit (dBUV/m) | Over Limit (dB) | Detector | Polarization |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-----------------|----------|--------------|
| 1   | 5201.08         | 85.2             | 6.65                 | 91.85           | 54             | 37.85           | Peak     | Vertical     |
| 2   | 5350            | 44.25            | 6.98                 | 51.23           | 54             | -2.77           | Peak     | Vertical     |
| 3   | 5408.17         | 45.73            | 7.29                 | 53.02           | 54             | -0.98           | Peak     | Vertical     |
| 1   | 5244.28         | 83.5             | 6.65                 | 90.15           | 54             | 36.15           | Peak     | Horizontal   |
| 2   | 5350            | 42.36            | 6.98                 | 49.34           | 54             | -4.66           | Peak     | Horizontal   |
| 3   | 5422.75         | 45.27            | 7.24                 | 52.51           | 54             | -1.49           | Peak     | Horizontal   |

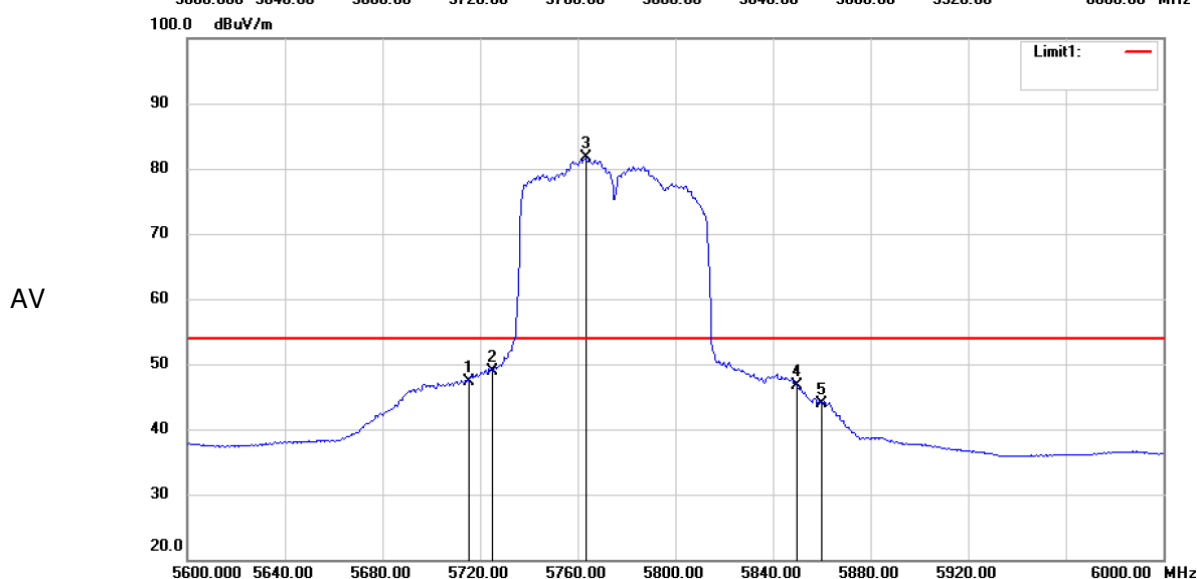
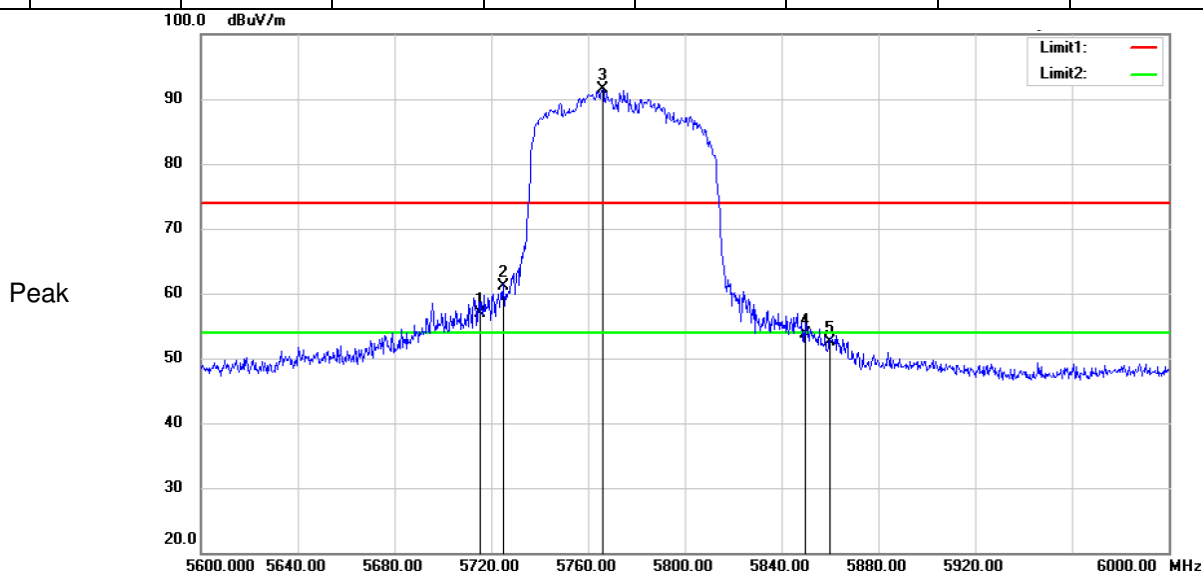


802.11 ac(VHT80)

Channel: 155

Fundamental frequency: 5775MHz

| MK. | Frequency (MHz) | Reading (dBUV/m) | Corrected factor(dB) | Result (dBUV/m) | Limit (dBUV/m) | Over Limit (dB) | Detector | Polarization |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-----------------|----------|--------------|
| 1   | 5715            | 50.14            | 6.84                 | 56.98           | 74             | -17.02          | Peak     | Horizontal   |
| 2   | 5725            | 54.33            | 6.82                 | 61.15           | 74             | -12.85          | Peak     | Horizontal   |
| 3   | 5766            | 84.74            | 6.74                 | 91.48           | 74             | 17.48           | Peak     | Horizontal   |
| 4   | 5850            | 47               | 6.64                 | 53.64           | 74             | -20.36          | Peak     | Horizontal   |
| 5   | 5860            | 45.78            | 6.63                 | 52.41           | 74             | -21.59          | Peak     | Horizontal   |
| 1   | 5715            | 40.53            | 6.84                 | 47.37           | 54             | -6.63           | AV       | Horizontal   |
| 2   | 5725            | 42.02            | 6.82                 | 48.84           | 54             | -5.16           | AV       | Horizontal   |
| 3   | 5763.2          | 74.96            | 6.74                 | 81.7            | 54             | 27.7            | AV       | Horizontal   |
| 4   | 5850            | 40.12            | 6.64                 | 46.76           | 54             | -7.24           | AV       | Horizontal   |
| 5   | 5860            | 37.32            | 6.63                 | 43.95           | 54             | -10.05          | AV       | Horizontal   |

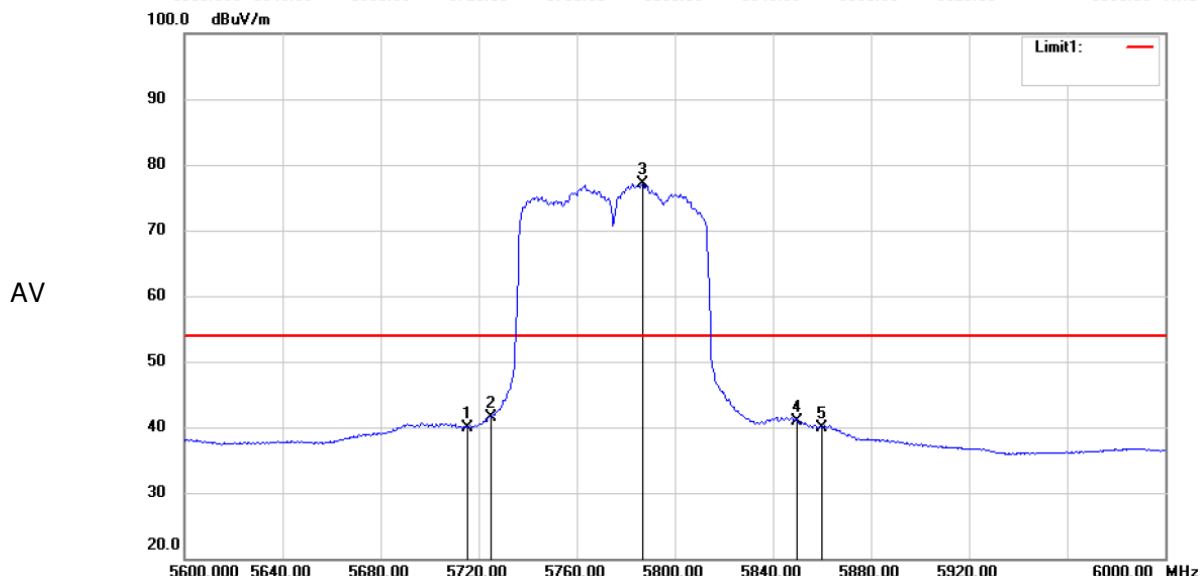
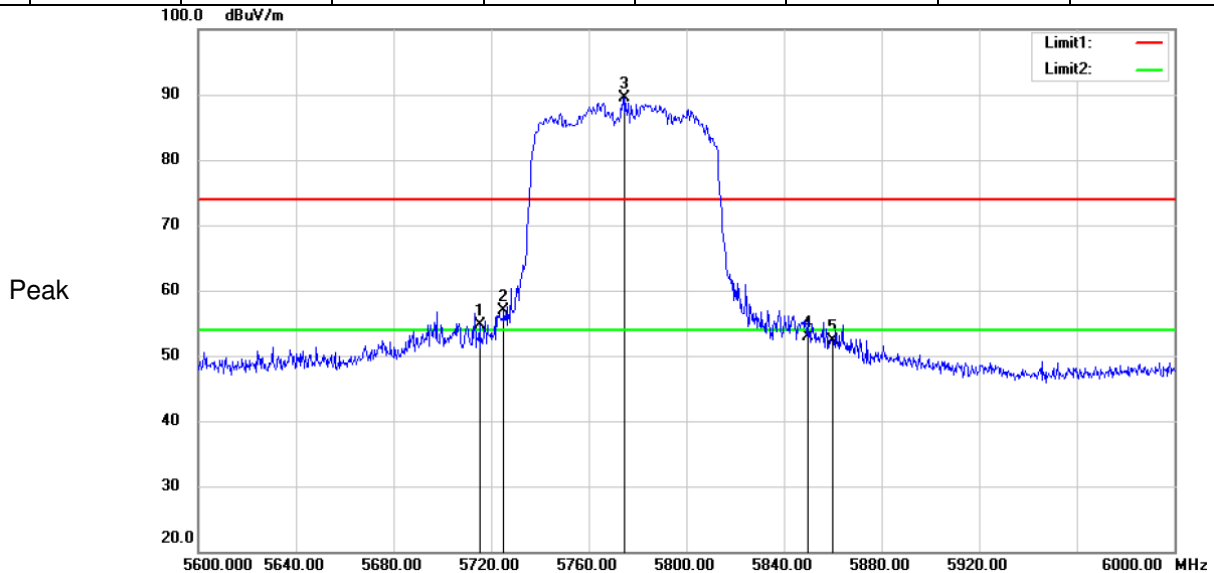


### 802.11 ac(VHT80)

Channel: 155

Fundamental frequency: 5775MHz

| MK. | Frequency (MHz) | Reading (dBuV/m) | Corrected factor(dB) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Polarization |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-----------------|----------|--------------|
| 1   | 5715            | 47.86            | 6.84                 | 54.7            | 74             | -19.3           | Peak     | Vertical     |
| 2   | 5725            | 50.01            | 6.82                 | 56.83           | 74             | -17.17          | Peak     | Vertical     |
| 3   | 5774.8          | 82.84            | 6.72                 | 89.56           | 74             | 15.56           | Peak     | Vertical     |
| 4   | 5850            | 46.34            | 6.64                 | 52.98           | 74             | -21.02          | Peak     | Vertical     |
| 5   | 5860            | 45.65            | 6.63                 | 52.28           | 74             | -21.72          | Peak     | Vertical     |
| 1   | 5715            | 33.03            | 6.84                 | 39.87           | 54             | -14.13          | AV       | Vertical     |
| 2   | 5725            | 34.6             | 6.82                 | 41.42           | 54             | -12.58          | AV       | Vertical     |
| 3   | 5786.8          | 70.41            | 6.7                  | 77.11           | 54             | 23.11           | AV       | Vertical     |
| 4   | 5850            | 34.33            | 6.64                 | 40.97           | 54             | -13.03          | AV       | Vertical     |
| 5   | 5860            | 33.29            | 6.63                 | 39.92           | 54             | -14.08          | AV       | Vertical     |



- Remark: 1. Test Level = Receiver Reading + Antenna Factor + Cable Loss- Preamplifier Factor  
2. No any other emission which falls in restricted bands can be detected and be reported.  
3. If the Peak value below the AV Limit, the AV test doesn't perform for this submission.

All frequencies within the "Restricted bands" have been evaluated to compliance. Section 15.205

Restricted bands of operation.

Only spurious emissions are permitted in any of the frequency bands listed below:

| MHz                        | MHz                   | MHz             | GHz           |
|----------------------------|-----------------------|-----------------|---------------|
| 0.090 - 0.110              | 16.42 - 16.423        | 399.9 - 410     | 4.5 - 5.15    |
| <sup>1</sup> 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     | 8.025 - 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     | 10.5 - 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 - 156.52525 | 2483.5 - 2500   | 17.7 - 21.4   |
| 8.37625 - 8.38675          | 156.7 - 156.9         | 2655 - 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     |               |
| 13.36 - 13.41              |                       |                 |               |

## **7.10 Transmission in the Absence of Data**

### **7.10.1 Standard Applicable**

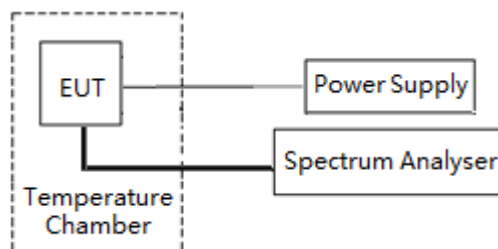
The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

### **7.10.2 Test Result**

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

### 7.11 Frequency stability

#### Test setup:



#### Test Procedure:

- The EUT was placed in the temperature chamber, the DC leads and RF output cable exited the chamber through an opening made for that purpose.
- After operating the equipment in standby conditions for 15 minutes before proceeding. The temperature was varied from -20°C to +55°C at intervals of not more than 10°C. The frequency stability was read from the spectrum analyzer and the frequency stability and input voltage was recorded.

#### Test Limit:

The frequency of carrier signal shall be maintained within the band of operation

#### Test Data:

| Test Data       |                 |              |                             |                         |                     |                |        |
|-----------------|-----------------|--------------|-----------------------------|-------------------------|---------------------|----------------|--------|
| Band            | Test Conditions |              | Operation<br>Frequency(MHz) | Test Frequency<br>(MHz) | Freq. Dev.<br>(MHz) | Limit<br>(GHz) | Result |
|                 | Volt (V DC)     | Temp (°C)    |                             |                         |                     |                |        |
| Band<br>U-NII 1 | Normal(3.8)     | Extreme(-20) | 5180                        | 5179.9857               | 0.0143              | 5.15-5.25      | Pass   |
|                 |                 | Extreme(-10) |                             | 5179.9860               | 0.0140              |                | Pass   |
|                 |                 | Extreme(0)   |                             | 5179.9853               | 0.0147              |                | Pass   |
|                 |                 | Extreme(+10) |                             | 5179.9852               | 0.0148              |                | Pass   |
|                 |                 | Extreme(+20) |                             | 5179.9867               | 0.0133              |                | Pass   |
|                 |                 | Extreme(+30) |                             | 5179.9839               | 0.0161              |                | Pass   |
|                 |                 | Extreme(+40) |                             | 5179.9851               | 0.0149              |                | Pass   |
|                 |                 | Extreme(+55) |                             | 5179.9859               | 0.0141              |                | Pass   |
|                 | Extreme(3.23)   | Norma(+20)   |                             | 5179.9876               | 0.0124              |                | Pass   |
|                 | Extreme(4.37)   |              |                             | 5179.9812               | 0.0188              |                | Pass   |
| Band<br>U-NII 3 | Normal(12)      | Extreme(-20) | 5825                        | 5824.9793               | 0.0207              | 5.725-5.85     | Pass   |
|                 |                 | Extreme(-10) |                             | 5824.9789               | 0.0211              |                | Pass   |
|                 |                 | Extreme(0)   |                             | 5824.9795               | 0.0205              |                | Pass   |
|                 |                 | Extreme(+10) |                             | 5824.9793               | 0.0207              |                | Pass   |
|                 |                 | Extreme(+20) |                             | 5824.9748               | 0.0252              |                | Pass   |
|                 |                 | Extreme(+30) |                             | 5824.9789               | 0.0211              |                | Pass   |
|                 |                 | Extreme(+40) |                             | 5824.9749               | 0.0251              |                | Pass   |
|                 |                 | Extreme(+55) |                             | 5824.9774               | 0.0226              |                | Pass   |
|                 | Extreme(3.23)   | Norma(20)    |                             | 5824.9783               | 0.0217              |                | Pass   |
|                 | Extreme(4.37)   |              |                             | 5824.9799               | 0.0201              |                | Pass   |

Remark: Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

## **8 Test Setup Photographs**

Refer to the < CS-SP208 \_Test Setup photos-FCC>.

## **9 EUT Constructional Details**

Refer to the < CS-SP208 \_External Photos > & < CS-SP208 \_Internal Photos >.

**--End of the Report--**