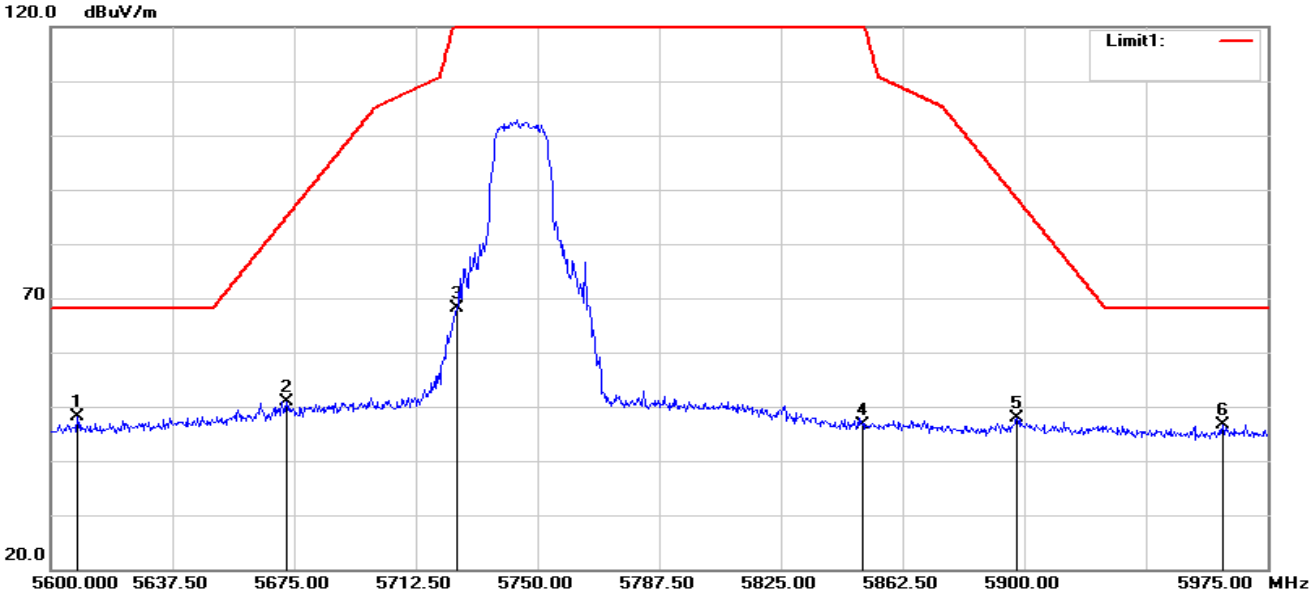
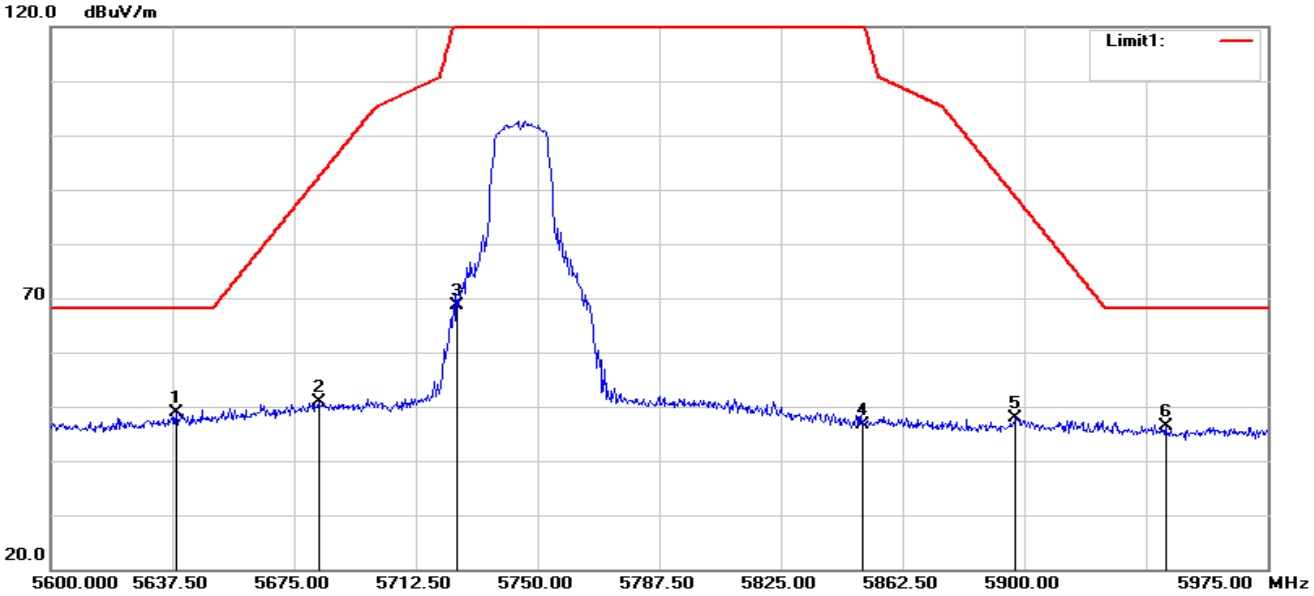
**Band IV(5.725-5.85 GHz)**

802.11a-L-H



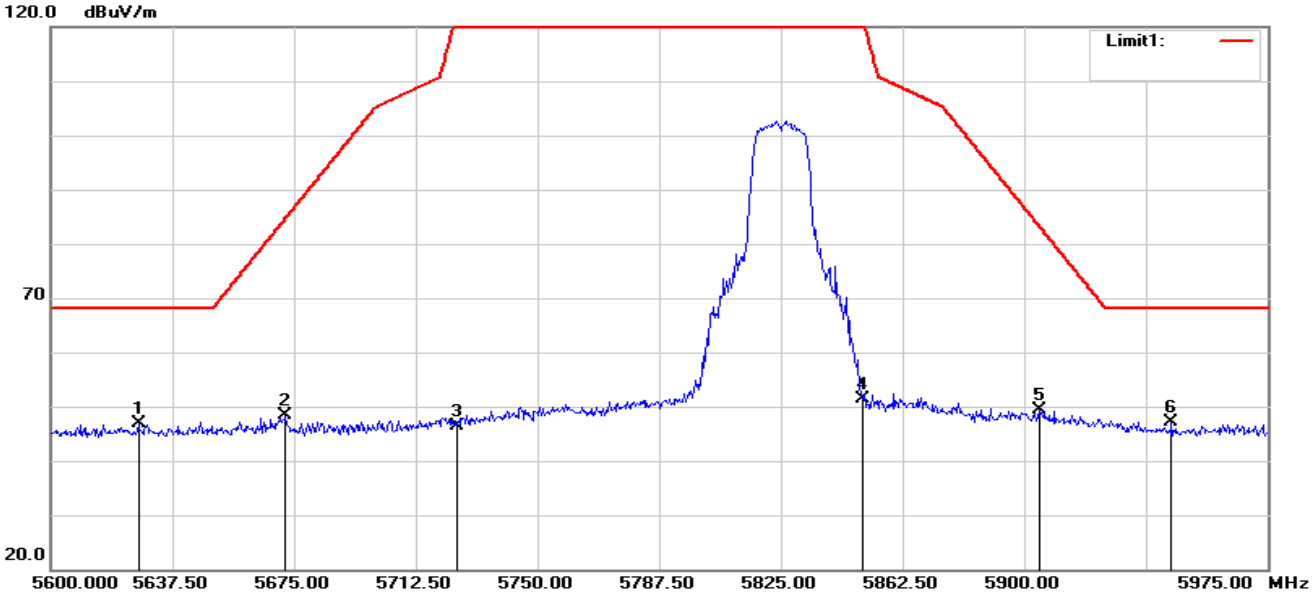

| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 5608.250 | 52.89 | -4.70 | 48.19 | 68.20 | -20.01 | peak |
| 2 | 5672.750 | 55.60 | -4.67 | 50.93 | 85.03 | -34.10 | peak |
| 3 | 5725.000 | 72.60 | -4.57 | 68.03 | 122.20 | -54.17 | peak |
| 4 | 5850.000 | 50.72 | -4.10 | 46.62 | 122.20 | -75.58 | peak |
| 5 | 5897.750 | 51.87 | -3.89 | 47.98 | 88.37 | -40.39 | peak |
| 6 | 5961.125 | 50.54 | -3.98 | 46.56 | 68.20 | -21.64 | peak |

802.11a-L-V



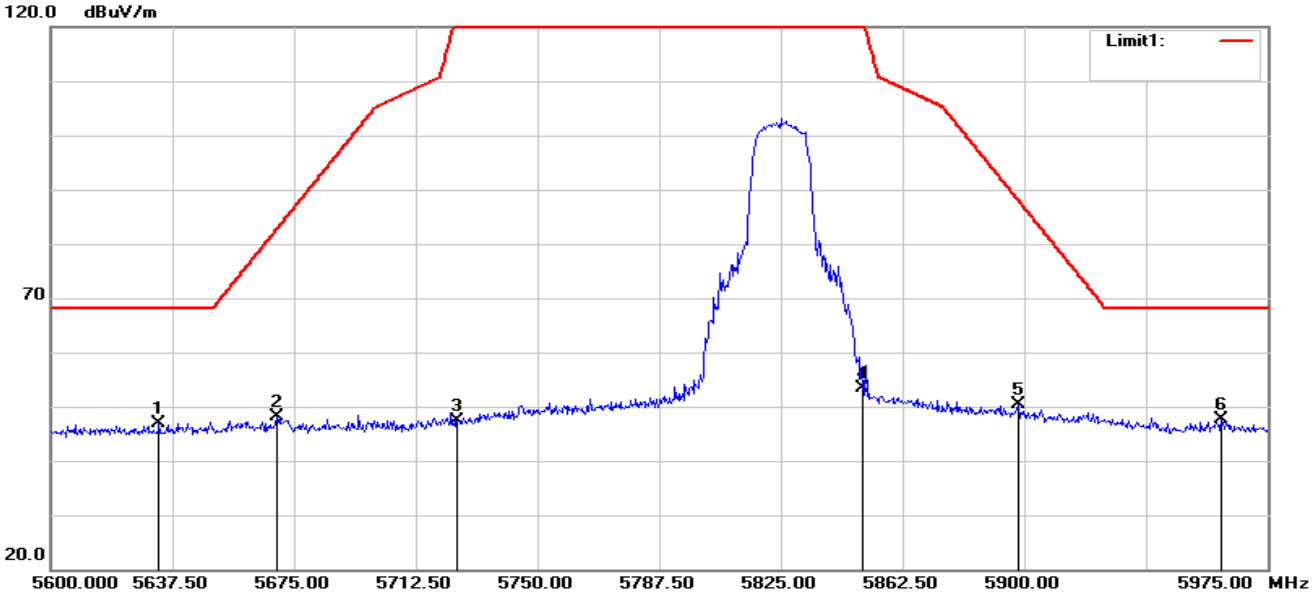

| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 5638.625 | 53.56 | -4.69 | 48.87 | 68.20 | -19.33 | peak |
| 2 | 5682.500 | 55.60 | -4.67 | 50.93 | 92.25 | -41.32 | peak |
| 3 | 5725.000 | 73.24 | -4.57 | 68.67 | 122.20 | -53.53 | peak |
| 4 | 5850.000 | 50.71 | -4.10 | 46.61 | 122.20 | -75.59 | peak |
| 5 | 5897.375 | 51.70 | -3.89 | 47.81 | 88.64 | -40.83 | peak |
| 6 | 5943.500 | 50.30 | -3.95 | 46.35 | 68.20 | -21.85 | peak |

802.11a-H-H



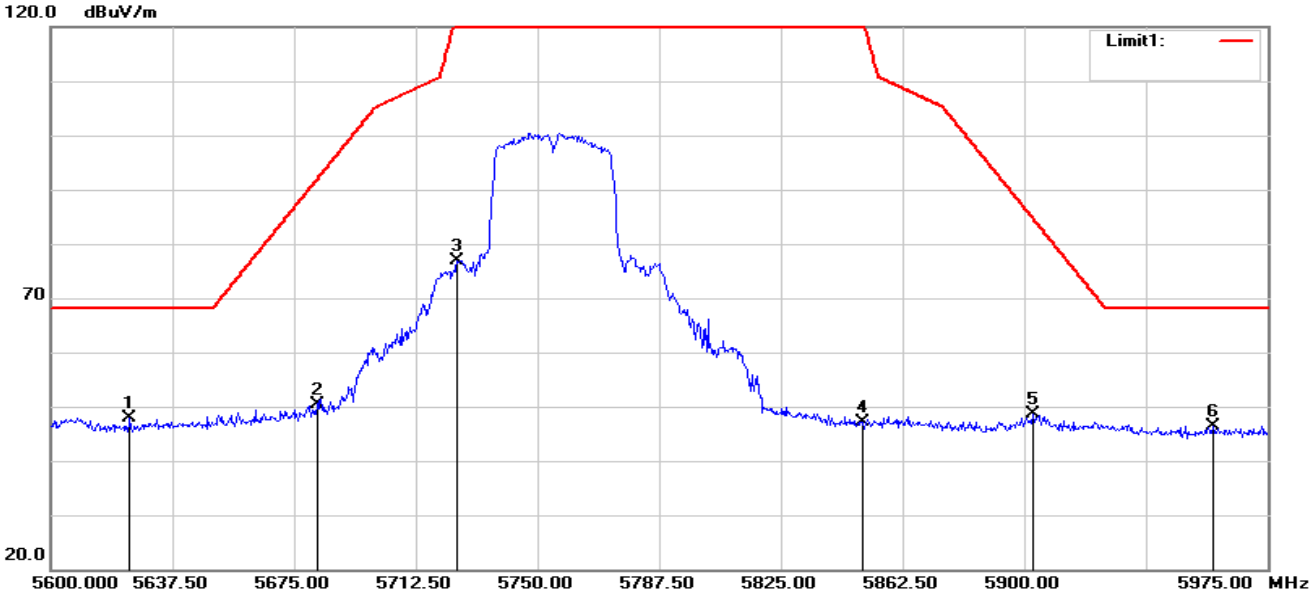

| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|---|---|---|---|---|---|---|---|
| | (MHz) | (dBuV) | Factor(dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 5627.000 | 51.52 | -4.69 | 46.83 | 68.20 | -21.37 | peak |
| 2 | 5672.375 | 53.00 | -4.67 | 48.33 | 84.76 | -36.43 | peak |
| 3 | 5725.000 | 50.95 | -4.57 | 46.38 | 122.20 | -75.82 | peak |
| 4 | 5850.000 | 55.55 | -4.10 | 51.45 | 122.20 | -70.75 | peak |
| 5 | 5904.500 | 53.20 | -3.88 | 49.32 | 83.37 | -34.05 | peak |
| 6 | 5945.375 | 51.19 | -3.96 | 47.23 | 68.20 | -20.97 | peak |

802.11a-H-V



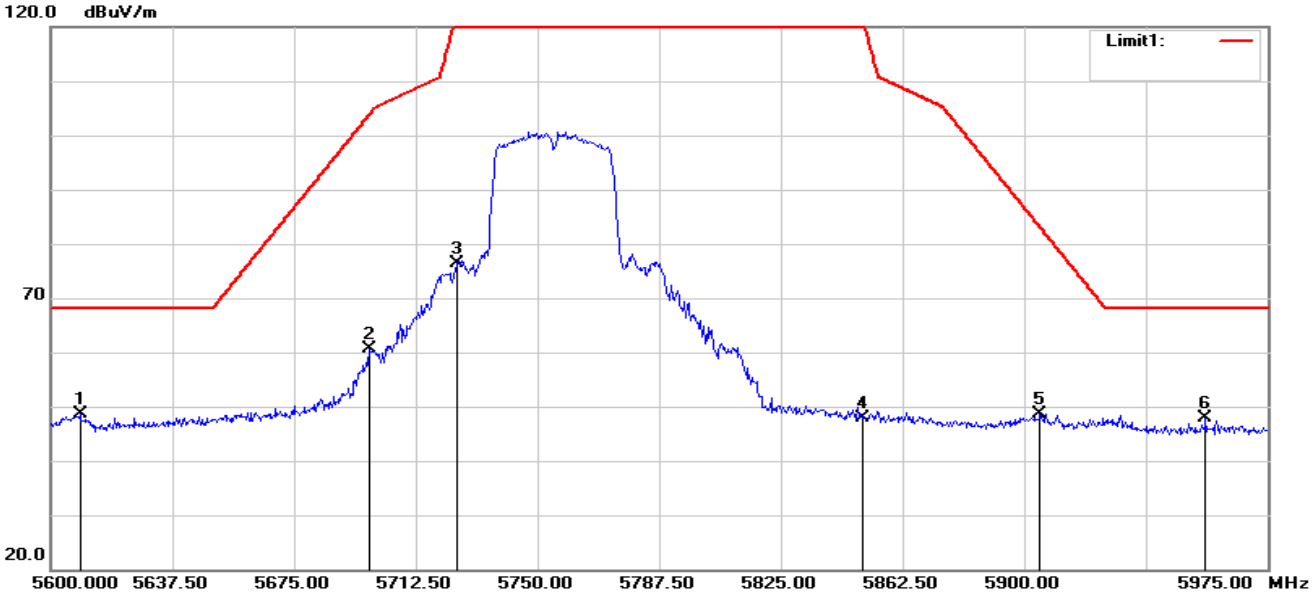

| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 5633.375 | 51.46 | -4.69 | 46.77 | 68.20 | -21.43 | peak |
| 2 | 5669.750 | 52.91 | -4.67 | 48.24 | 82.81 | -34.57 | peak |
| 3 | 5725.000 | 51.99 | -4.57 | 47.42 | 122.20 | -74.78 | peak |
| 4 | 5850.000 | 57.54 | -4.10 | 53.44 | 122.20 | -68.76 | peak |
| 5 | 5898.125 | 54.32 | -3.89 | 50.43 | 88.09 | -37.66 | peak |
| 6 | 5960.750 | 51.52 | -3.98 | 47.54 | 68.20 | -20.66 | peak |

802.11n40-L-H



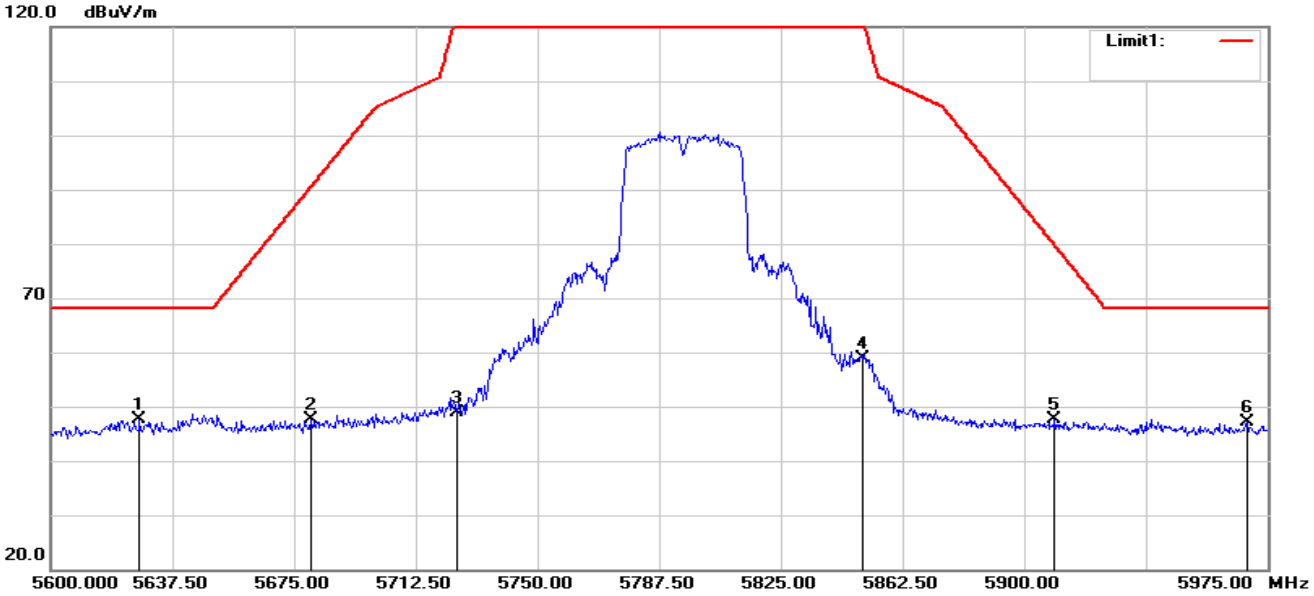

| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 5624.375 | 52.57 | -4.69 | 47.88 | 68.20 | -20.32 | peak |
| 2 | 5682.125 | 55.01 | -4.67 | 50.34 | 91.97 | -41.63 | peak |
| 3 | 5725.000 | 81.50 | -4.57 | 76.93 | 122.20 | -45.27 | peak |
| 4 | 5850.000 | 51.30 | -4.10 | 47.20 | 122.20 | -75.00 | peak |
| 5 | 5902.625 | 52.50 | -3.89 | 48.61 | 84.76 | -36.15 | peak |
| 6 | 5958.125 | 50.47 | -3.98 | 46.49 | 68.20 | -21.71 | peak |

802.11n40-L-V



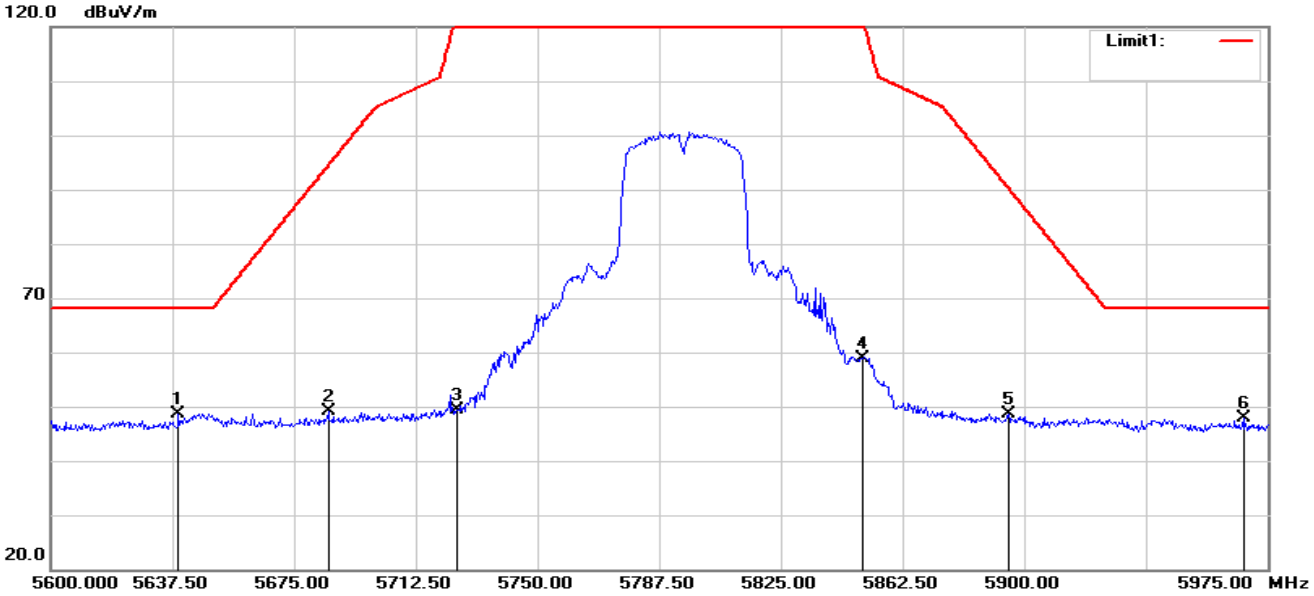

| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 5609.000 | 53.41 | -4.70 | 48.71 | 68.20 | -19.49 | peak |
| 2 | 5698.250 | 65.28 | -4.66 | 60.62 | 103.91 | -43.29 | peak |
| 3 | 5725.000 | 81.00 | -4.57 | 76.43 | 122.20 | -45.77 | peak |
| 4 | 5850.000 | 51.93 | -4.10 | 47.83 | 122.20 | -74.37 | peak |
| 5 | 5904.875 | 52.51 | -3.89 | 48.62 | 83.09 | -34.47 | peak |
| 6 | 5955.875 | 51.92 | -3.97 | 47.95 | 68.20 | -20.25 | peak |

802.11n40-H-H




| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|---|---|---|---|---|---|---|---|
| | (MHz) | (dBuV) | Factor(dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 5627.375 | 52.29 | -4.69 | 47.60 | 68.20 | -20.60 | peak |
| 2 | 5680.250 | 52.33 | -4.67 | 47.66 | 90.59 | -42.93 | peak |
| 3 | 5725.000 | 53.33 | -4.57 | 48.76 | 122.20 | -73.44 | peak |
| 4 | 5850.000 | 62.87 | -4.10 | 58.77 | 122.20 | -63.43 | peak |
| 5 | 5909.375 | 51.46 | -3.89 | 47.57 | 79.76 | -32.19 | peak |
| 6 | 5968.625 | 51.14 | -4.00 | 47.14 | 68.20 | -21.06 | peak |

802.11n40-H-V




| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 5639.375 | 53.26 | -4.69 | 48.57 | 68.20 | -19.63 | peak |
| 2 | 5685.500 | 53.79 | -4.66 | 49.13 | 94.47 | -45.34 | peak |
| 3 | 5725.000 | 54.03 | -4.57 | 49.46 | 122.20 | -72.74 | peak |
| 4 | 5850.000 | 63.07 | -4.10 | 58.97 | 122.20 | -63.23 | peak |
| 5 | 5895.125 | 52.44 | -3.90 | 48.54 | 90.31 | -41.77 | peak |
| 6 | 5967.500 | 51.94 | -3.99 | 47.95 | 68.20 | -20.25 | peak |

Note: All modes have been tested. Only the worst mode shown in the report.

# 4. POWER SPECTRAL DENSITY TEST

## 4.1 LIMIT

1. For mobile and portable client devices in the 5.15-5.25 GHz band, , the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
2. For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
3. For the band 5.725-5.850 GHz, the peak power spectral density shall not exceed 30 dBm in any 500KHz band. If transmitting antenna directional gain is greater than 6 dBi, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

## 4.2 TEST PROCEDURE

1. The setting follows Method SA-1 of FCC KDB D02 General UNII Test Procedures New Rules v01r03.

For devices operating in the band, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, “provided that the measured power is integrated over the full reference bandwidth” to show the total power over the specified measurement bandwidth (*i.e.,* 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 KHz bandwidth, the following adjustments to the procedures apply:

a) Set RBW ≥ 1/*T*, where *T* is defined in section II.B.I.a).

b) Set VBW ≥ 3 RBW.

c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10 log (500kHz/RBW) to the measured result, whereas RBW (< 500 kHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.

d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add 10 log (1MHz/RBW) to the measured result, whereas RBW (< 1 MHz) is the reduced resolution bandwidth of spectrum analyzer set during measurement.

e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100 kHz for the sections5.c) and 5.d) above, since RBW=100 KHZ is available on nearly all spectrum analyzers.

### 4.3 DEVIATION FROM STANDARD

No deviation.

### 4.4 TEST SETUP


### 4.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

### 4.6 TEST RESULTS

| 5150-5250MHz | | | | | |
|---|---|---|---|---|---|
| Frequency | Direct measurement Power Density (dBm) | Duty cycle factor (dB) | Final Power Density (dBm) | Limit (dBm) | Result |
| 802.11a | | | | | |
| 5180 | 1.148 | 0.086 | 1.234 | 11 | PASS |
| 5200 | 0.649 | 0.086 | 0.735 | 11 | PASS |
| 5240 | 1.700 | 0.086 | 1.786 | 11 | PASS |
| 802.11n20 | | | | | |
| 5180 | 1.084 | 0.053 | 1.137 | 11 | PASS |
| 5200 | 1.015 | 0.053 | 1.068 | 11 | PASS |
| 5240 | 1.546 | 0.053 | 1.599 | 11 | PASS |
| 802.11n40 | | | | | |
| 5190 | -1.896 | 0.182 | -1.714 | 11 | PASS |
| 5230 | -2.492 | 0.182 | -2.310 | 11 | PASS |

| 5250-5350MHz | | | | | |
|---|---|---|---|---|---|
| Frequency | Direct measurement Power Density (dBm) | Duty cycle factor (dB) | Final Power Density (dBm) | Limit (dBm) | Result |
| 802.11a | | | | | |
| 5260 | 1.456 | 0.061 | 1.517 | 11 | PASS |
| 5300 | 1.824 | 0.061 | 1.885 | 11 | PASS |
| 5320 | 1.027 | 0.061 | 1.088 | 11 | PASS |
| 802.11n20 | | | | | |
| 5260 | 1.527 | 0.065 | 1.592 | 11 | PASS |
| 5300 | 1.257 | 0.065 | 1.322 | 11 | PASS |
| 5320 | 1.322 | 0.065 | 1.387 | 11 | PASS |
| 802.11n40 | | | | | |
| 5270 | -1.990 | 0.182 | -1.808 | 11 | PASS |
| 5310 | -2.352 | 0.182 | -2.170 | 11 | PASS |

| 5725-5850MHz | | | | | | |
|---|---|---|---|---|---|---|
| Frequency | Use RBW 510KHz direct measurement Direct measurement Power Density (dBm) | Convert to RBW 500KHz direct measurement Power Density (dBm) | Duty cycle factor (dB) | Final Power Density (dBm) | Limit (dBm) | Result |
| 802.11a | | | | | | |
| 5745 | -5.985 | -6.071 | 0.037 | -6.034 | 30 | PASS |
| 5785 | -5.513 | -5.599 | 0.037 | -5.562 | 30 | PASS |
| 5825 | -3.632 | -3.718 | 0.037 | -3.681 | 30 | PASS |
| 802.11n20 | | | | | | |
| 5745 | -5.832 | -5.918 | 0.078 | -5.840 | 30 | PASS |
| 5785 | -5.650 | -5.736 | 0.078 | -5.658 | 30 | PASS |
| 5825 | -3.654 | -3.740 | 0.078 | -3.662 | 30 | PASS |
| 802.11n40 | | | | | | |
| 5755 | -9.629 | -9.715 | 0.182 | -9.533 | 30 | PASS |
| 5795 | -8.390 | -8.476 | 0.182 | -8.294 | 30 | PASS |

Note: 1. RB conversion formula: 10*LOG(500KHz/RBW)
2. Test plots see Attachment A.

# 5. BANDWIDTH MEASUREMENT

## 5.1 EMISSION BANDWIDTH (EBW) 26 BANDWID PROCEDURES / LIMIT

The following procedure shall be used for measuring 26 bandwidth.

### 5.1.1 TEST PROCEDURE

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > =RBW.
4. Detector = Peak.
5. Trace mode = max hold.
6. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

### 5.1.2 DEVIATION FROM STANDARD

No deviation.

### 5.1.3 TEST SETUP


### 5.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

### 5.1.5 TEST RESULTS

| Frequency (MHz) | 26dB Bandwidth (MHz) | Pass/Fail |
|---|---|---|
| 802.11a | | |
| 5180 | 19.34 | Pass |
| 5200 | 19.28 | Pass |
| 5240 | 19.23 | Pass |
| 802.11n(HT20) | | |
| 5180 | 19.70 | Pass |
| 5200 | 19.59 | Pass |
| 5240 | 19.53 | Pass |
| 802.11n(HT40) | | |
| 5190 | 41.79 | Pass |
| 5230 | 40.59 | Pass |

| Frequency (MHz) | 26dB Bandwidth (MHz) | Pass/Fail |
|---|---|---|
| 802.11a | | |
| 5260 | 19.48 | Pass |
| 5300 | 19.47 | Pass |
| 5320 | 19.29 | Pass |
| 802.11n(HT20) | | |
| 5260 | 19.77 | Pass |
| 5300 | 19.66 | Pass |
| 5320 | 19.76 | Pass |
| 802.11n(HT40) | | |
| 5270 | 40.36 | Pass |
| 5310 | 40.46 | Pass |

| Frequency (MHz) | 26dB Bandwidth (MHz) | Pass/Fail |
|---|---|---|
| 802.11a | | |
| 5745 | 19.31 | Pass |
| 5785 | 19.31 | Pass |
| 5825 | 19.42 | Pass |
| 802.11n(HT20) | | |
| 5745 | 19.70 | Pass |
| 5785 | 19.66 | Pass |
| 5825 | 19.62 | Pass |
| 802.11n(HT40) | | |
| 5755 | 40.46 | Pass |
| 5795 | 39.75 | Pass |

Test plots see Attachment B.

## 5.2 OCCUPIED BANDWIDTH ( 99%) TEST APPLIED PROCEDURES / LIMIT

The following procedure shall be used for measuring (99 %) power bandwidth.

### 5.2.1 TEST PROCEDURE

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures v02r01.
The following procedure shall be used for measuring (99 %) power bandwidth:

1. Set center frequency to the nominal EUT channel center frequency.

2. Set span = 1.5 times to 5.0 times the OBW.

3. Set RBW = 1 % to 5 % of the OBW

4. Set VBW ≥ 3 · RBW

5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.

6. Use the 99 % power bandwidth function of the instrument (if available).

7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

### 5.2.2 DEVIATION FROM STANDARD

No deviation.

### 5.2.3 TEST SETUP


### 5.2.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

### 5.2.5 TEST RESULTS

| Frequency (MHz) | 99% Bandwidth (MHz) | Pass/Fail |
|---|---|---|
| 802.11a | | |
| 5180 | 16.47 | Pass |
| 5200 | 16.49 | Pass |
| 5240 | 16.44 | Pass |
| 802.11n(HT20) | | |
| 5180 | 17.57 | Pass |
| 5200 | 17.54 | Pass |
| 5240 | 17.55 | Pass |
| 802.11n(HT40) | | |
| 5190 | 35.98 | Pass |
| 5230 | 35.95 | Pass |

| Frequency (MHz) | 99% Bandwidth (MHz) | Pass/Fail |
|---|---|---|
| 802.11a | | |
| 5260 | 16.47 | Pass |
| 5300 | 16.47 | Pass |
| 5320 | 16.47 | Pass |
| 802.11n(HT20) | | |
| 5260 | 17.54 | Pass |
| 5300 | 17.56 | Pass |
| 5320 | 17.55 | Pass |
| 802.11n(HT40) | | |
| 5270 | 35.96 | Pass |
| 5310 | 35.96 | Pass |

| Frequency (MHz) | 99% Bandwidth (MHz) | Pass/Fail |
|---|---|---|
| 802.11a | | |
| 5745 | 16.45 | Pass |
| 5785 | 16.45 | Pass |
| 5825 | 16.46 | Pass |
| 802.11n(HT20) | | |
| 5745 | 17.55 | Pass |
| 5785 | 17.55 | Pass |
| 5825 | 17.54 | Pass |
| 802.11n(HT40) | | |
| 5755 | 35.96 | Pass |
| 5795 | 35.95 | Pass |

Test plots See Attachment B.

## 5.3 MINIMUM EMISSION BANDWIDTH(6 DB) PROCEDURES / LIMIT

Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.725-5.85 GHz. The following procedure shall be used for measuring this bandwidth:

### 5.3.1 TEST PROCEDURE

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures v02r01.

a) Set RBW = 100 kHz.

b) Set the video bandwidth (VBW) ≥ 3 × RBW.

c) Detector = Peak.

d) Trace mode = max hold.

e) Sweep = auto couple.

f) Allow the trace to stabilize.

g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

### 5.3.2 DEVIATION FROM STANDARD

No deviation.

### 5.3.3 TEST SETUP


### 5.3.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

### 5.3.5 TEST RESULTS

| Frequency (MHz) | 6dB Bandwidth (MHz) | Pass/Fail |
|---|---|---|
| 802.11a | | |
| 5745 | 15.09 | Pass |
| 5785 | 15.44 | Pass |
| 5825 | 15.10 | Pass |
| 802.11n(HT20) | | |
| 5745 | 15.07 | Pass |
| 5785 | 15.95 | Pass |
| 5825 | 15.08 | Pass |
| 802.11n(HT40) | | |
| 5755 | 35.18 | Pass |
| 5795 | 35.17 | Pass |

Test plots see Attachment C.

# 6. MAXIMUM CONDUCTED OUTPUT POWER

## 6.1 LIMIT

For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz,If transmitting antennas of directional gain greater than 6 dBi are used.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. If transmitting antennas of directional gain greater than 6 dBi are used.

| FCC Part15 (15.407) , Subpart E | | | | |
|---|---|---|---|---|
| Section | Test Item | Limit | Frequency Range (MHz) | Result |
| 15.407(a) (1) (iv) | Peak Output Power | 0.25 watt | 5150-5250 | PASS |
| | | The lesser of 250 mW or 11 dBm + 10 log (26 dB emission bandwidth) | 5250-5350<br>5470-5725 | |
| 15.407(a) (3) | | 1 watt | 5725-5825 | |

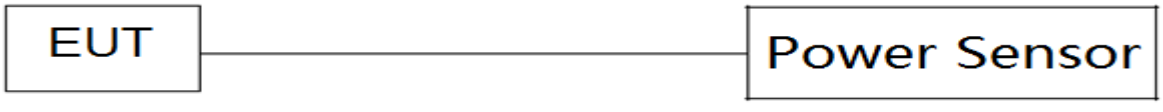
## 6.2 TEST PROCEDURE

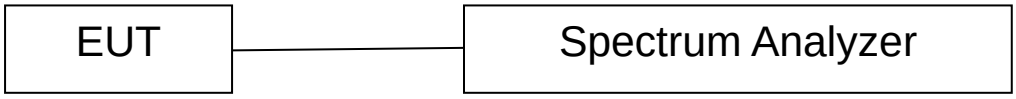
The EUT was directly connected to the Power Sensor&PC

## 6.3 DEVIATION FROM STANDARD

No deviation.

## 6.4 TEST SETUP




## 6.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 5 Unless otherwise a special operating condition is specified in the follows during the testing.

## 6.6 TEST RESULTS

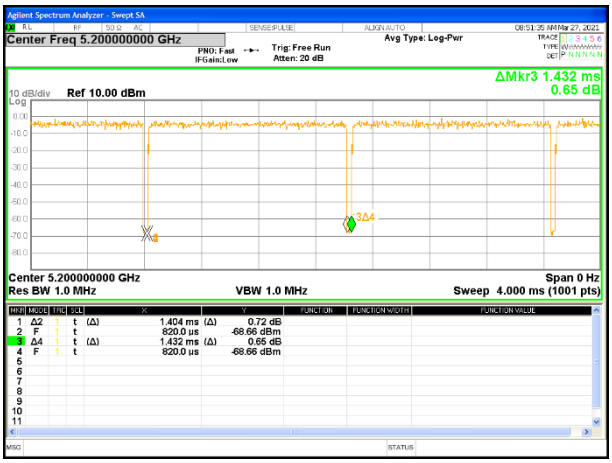
| Band I (5.15-5.25GHz) | | | | | |
|---|---|---|---|---|---|
| Test Channel | Frequency (MHz) | Direct measurement AV Power (dBm) | Duty cycle factor (dB) | Final AV Power (dBm) | LIMIT (dBm) |
| 802.11a | | | | | |
| 36 | 5180 | 11.45 | 0.086 | 11.54 | 23.98 |
| 40 | 5200 | 11.29 | 0.086 | 11.38 | 23.98 |
| 48 | 5240 | 10.35 | 0.086 | 10.44 | 23.98 |
| 802.11n(HT20) | | | | | |
| 36 | 5180 | 10.92 | 0.053 | 10.97 | 23.98 |
| 40 | 5200 | 11.37 | 0.053 | 11.42 | 23.98 |
| 48 | 5240 | 10.50 | 0.053 | 10.55 | 23.98 |
| 802.11n(HT40) | | | | | |
| 38 | 5190 | 11.37 | 0.182 | 11.55 | 23.98 |
| 46 | 5230 | 10.47 | 0.182 | 10.65 | 23.98 |

| Band II(5.25-5.35GHz) | | | | | |
|---|---|---|---|---|---|
| Test Channel | Frequency (MHz) | Direct measurement AV Power (dBm) | Duty cycle factor (dB) | Final AV Power (dBm) | LIMIT (dBm) |
| 802.11a | | | | | |
| 52 | 5260 | 10.53 | 0.061 | 10.59 | 23.90 |
| 60 | 5300 | 9.61 | 0.061 | 9.67 | 23.89 |
| 64 | 5320 | 9.33 | 0.061 | 9.39 | 23.85 |
| 802.11n(HT20) | | | | | |
| 52 | 5260 | 10.52 | 0.065 | 10.59 | 23.96 |
| 60 | 5300 | 10.10 | 0.065 | 10.17 | 23.94 |
| 64 | 5320 | 9.80 | 0.065 | 9.87 | 23.96 |
| 802.11n(HT40) | | | | | |
| 54 | 5270 | 10.22 | 0.182 | 10.40 | 23.98 |
| 62 | 5310 | 9.88 | 0.182 | 10.06 | 23.98 |

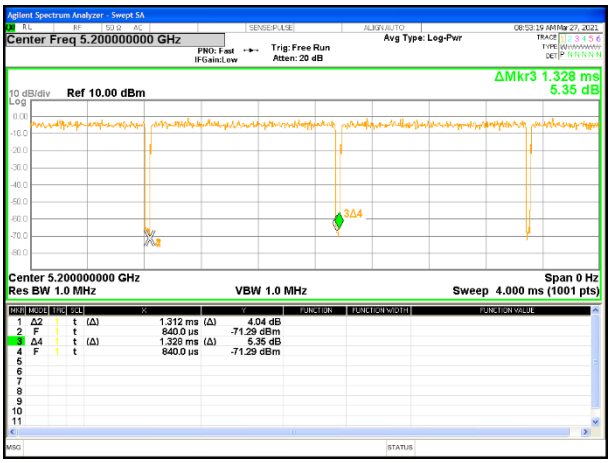
| Band IV (5.725-5.85GHz) | | | | | |
|---|---|---|---|---|---|
| Test Channel | Frequency (MHz) | Direct measurement AV Power (dBm) | Duty cycle factor (dB) | Final AV Power (dBm) | LIMIT (dBm) |
| 802.11a | | | | | |
| 149 | 5745 | 9.68 | 0.037 | 9.72 | 30.00 |
| 157 | 5785 | 10.21 | 0.037 | 10.25 | 30.00 |
| 165 | 5825 | 10.01 | 0.037 | 10.05 | 30.00 |
| 802.11n(HT20) | | | | | |
| 149 | 5745 | 9.69 | 0.078 | 9.77 | 30.00 |
| 157 | 5785 | 9.66 | 0.078 | 9.74 | 30.00 |
| 165 | 5825 | 10.47 | 0.078 | 10.55 | 30.00 |
| 802.11n(HT40) | | | | | |
| 151 | 5755 | 9.26 | 0.182 | 9.44 | 30.00 |
| 159 | 5795 | 10.15 | 0.182 | 10.33 | 30.00 |

Duty cycle

| Band1 | | | | |
|---|---|---|---|---|
| Mode | Ton(ms) | Tp(ms) | Duty cycle(%) | Duty factor(dB) |
| a | 1.404 | 1.432 | 98.04% | 0.086 |
| n20 | 1.312 | 1.328 | 98.80% | 0.053 |
| n40 | 0.656 | 0.684 | 95.91% | 0.182 |
| Band2 | | | | |
| Mode | Ton(ms) | Tp(ms) | Duty cycle(%) | Duty factor(dB) |
| a | 1.404 | 1.424 | 98.60% | 0.061 |
| n20 | 1.320 | 1.340 | 98.51% | 0.065 |
| n40 | 0.656 | 0.684 | 95.91% | 0.182 |
| Band4 | | | | |
| Mode | Ton(ms) | Tp(ms) | Duty cycle(%) | Duty factor(dB) |
| a | 1.404 | 1.416 | 99.15% | 0.037 |
| n20 | 1.316 | 1.340 | 98.21% | 0.078 |
| n40 | 0.654 | 0.682 | 95.89% | 0.182 |

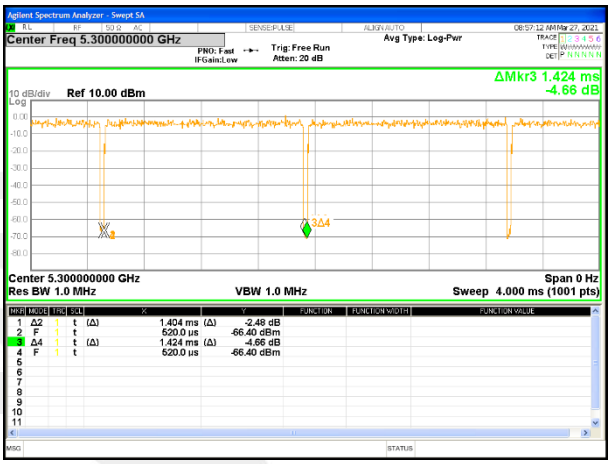



Band 1-a20

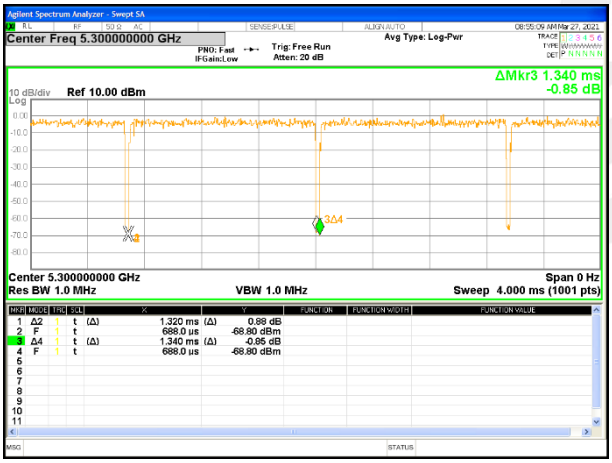



Band 1-n20

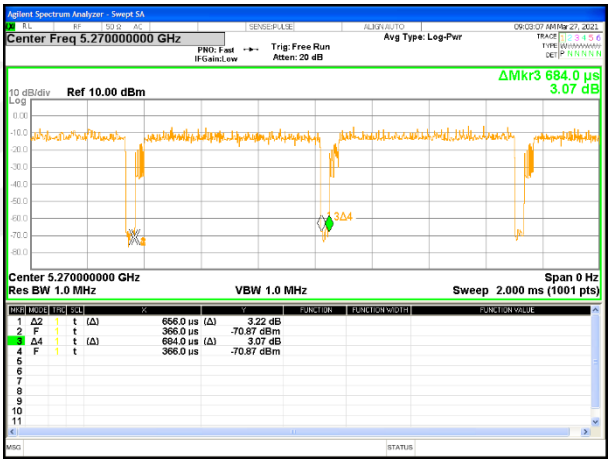

Band 1-n40



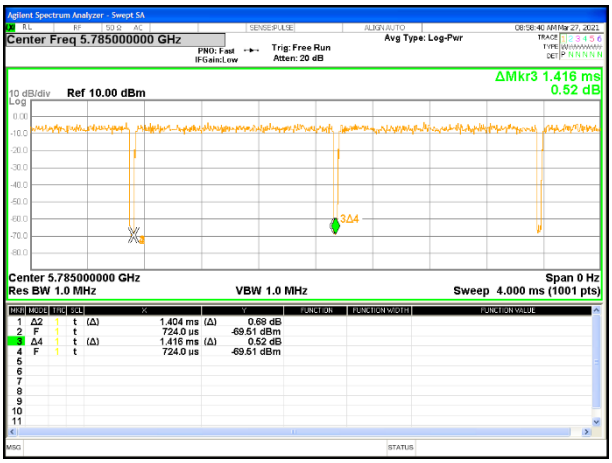

Band 2-a20



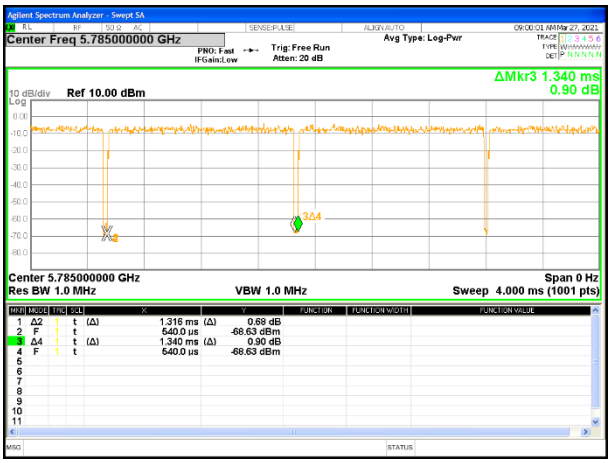

Band 2-n20




Band 2-n40




Band 4-a20




Band 4-n20


Band 4-n40

# 7. AUTOMATICALLY DISCONTINUE TRANSMISSION

## 7.1 LIMIT OF AUTOMATICALLY DISCONTINUE TRANSMISSION

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 signaling 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 to describe how this requirement is met.

## 7.2 TEST RESULT OF AUTOMATICALLY DISCONTINUE TRANSMISSION

During no any information transmission, 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

# 8. ANTENNA REQUIREMENT

## 8.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

## 8.2 EUT ANTENNA

The EUT antenna is PIFA Antenna. It comply with the standard requirement.

## APPENDIX - PHOTOS OF TEST SETUP

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

※※※※※END OF THE REPORT※※※※※