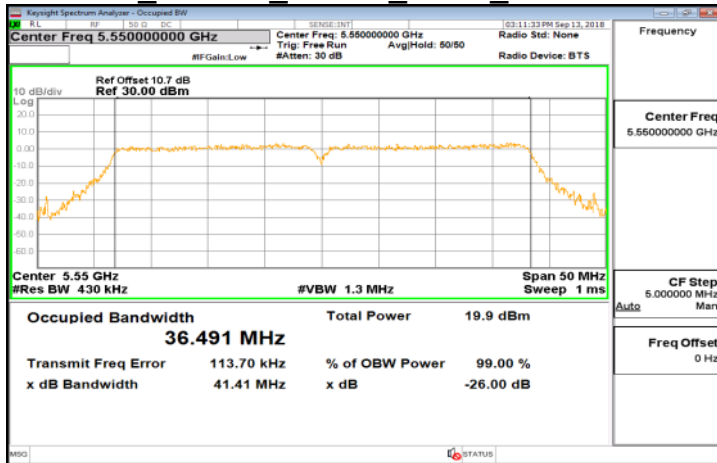
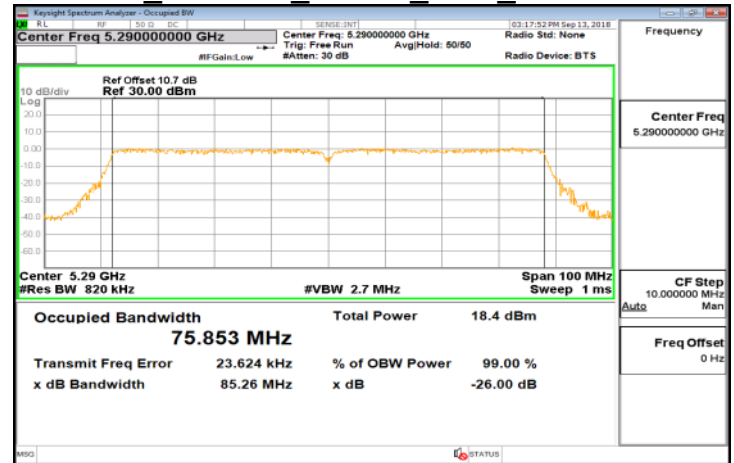


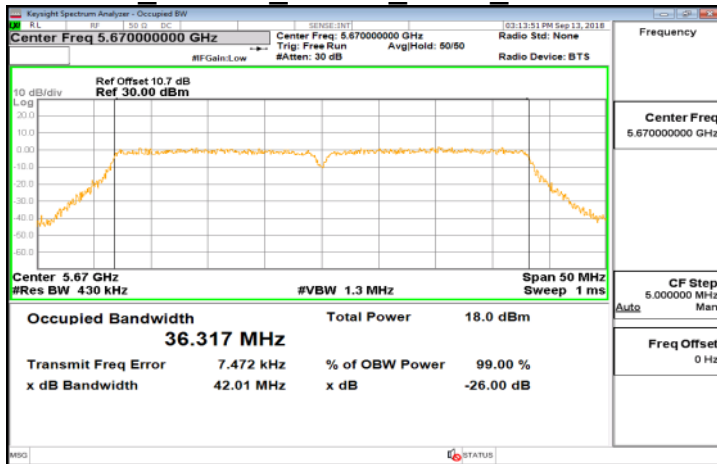
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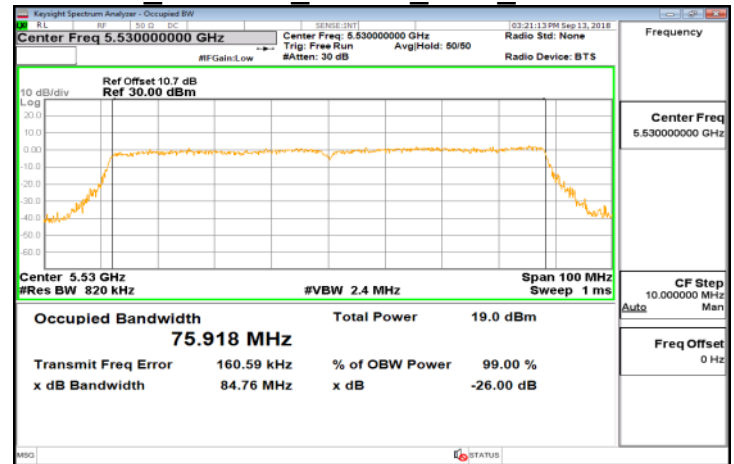
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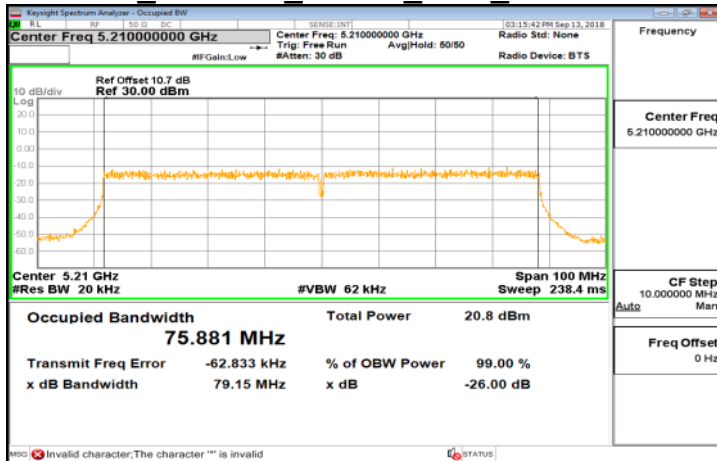
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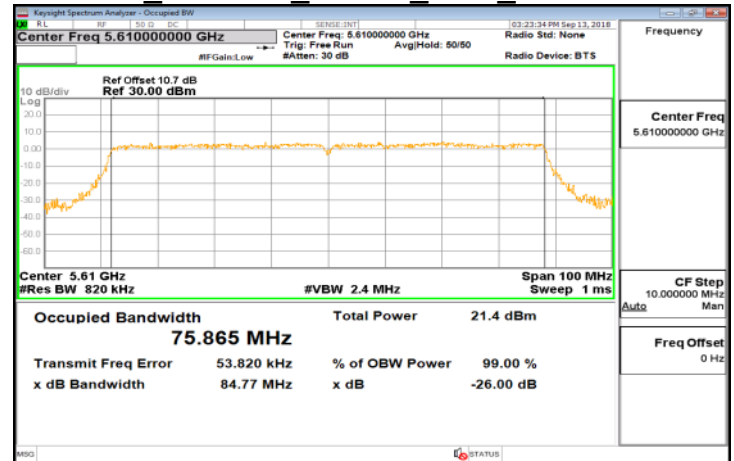
FCC 802.11ac 80MHz Main 5530MHz



FCC 802.11ac 80MHz Main 5210MHz



FCC 802.11ac 80MHz Main 5610MHz



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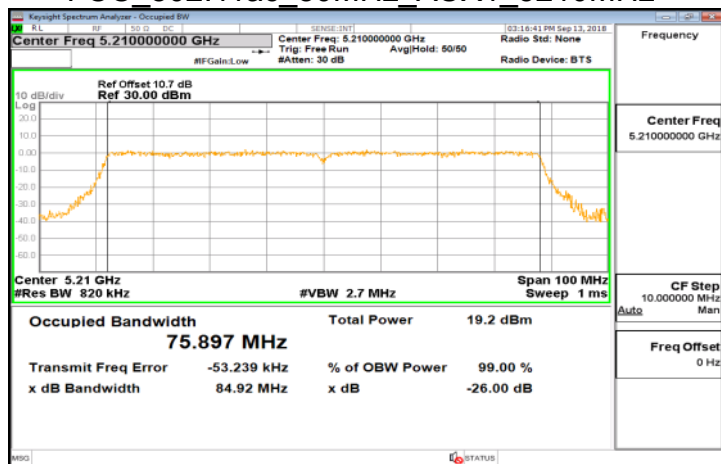
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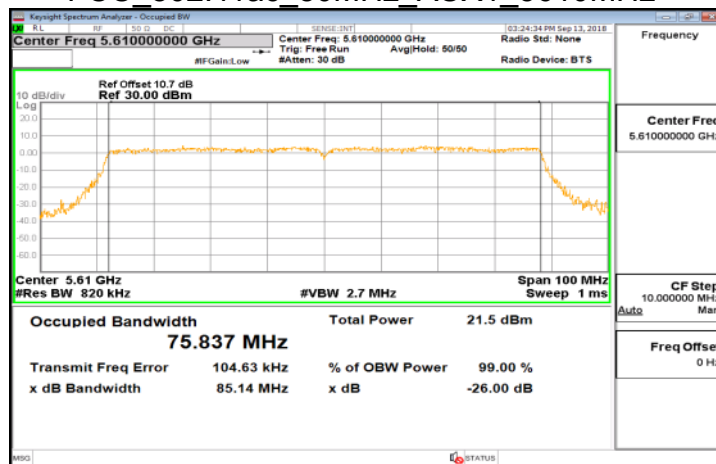
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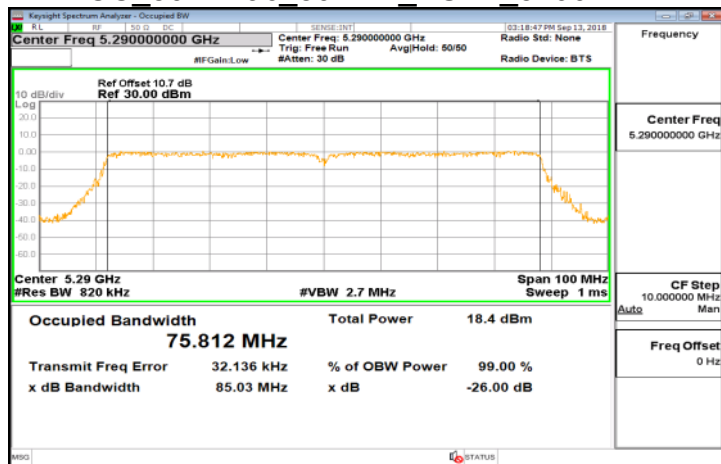
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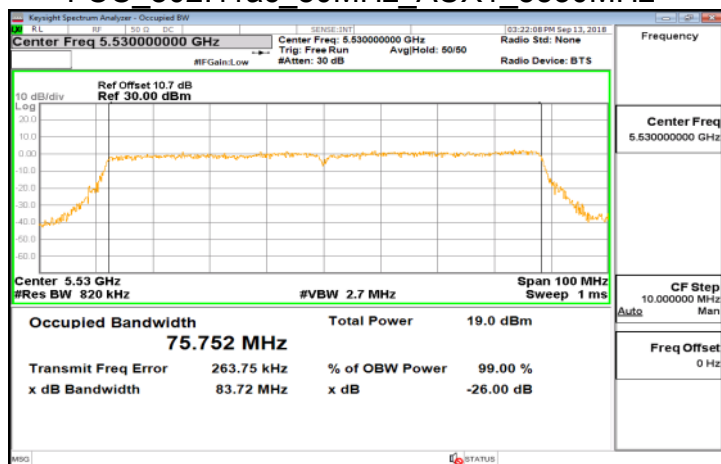
FCC 802.11ac 80MHz AUX1 5610MHz



FCC 802.11ac 80MHz AUX1 5290MHz



FCC 802.11ac 80MHz AUX1 5530MHz



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## 9. MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

### 9.1 Standard Applicable

| OPERZTION Band | EUT CATEGORY |                                   | LIMIT                             |
|----------------|--------------|-----------------------------------|-----------------------------------|
| U-NII-1        |              | Access Point (Master device )     | 1 Watt(30dBm)                     |
|                |              | Fixed point-to-point Access Ponit | 1 Watt(30dBm)                     |
|                | √            | Mobile and portable client device | 250mW(23.98dBm)                   |
| U-NII-2A       | √            |                                   | 250mW(23.98dBm) or 11dBm+10 log B |
| U-NII-2C       | √            |                                   | 250mW(23.98dBm) or 11dBm+10 log B |
| U-NII-3        |              |                                   | 1 Watt(30dBm)                     |

If transmitting antennas of directional gain greater than 6 dBi are used, both the transmit power and the power spectral density shall be reduced by the amount in dB that the direction-al gain of the antenna exceeds 6 dBi.

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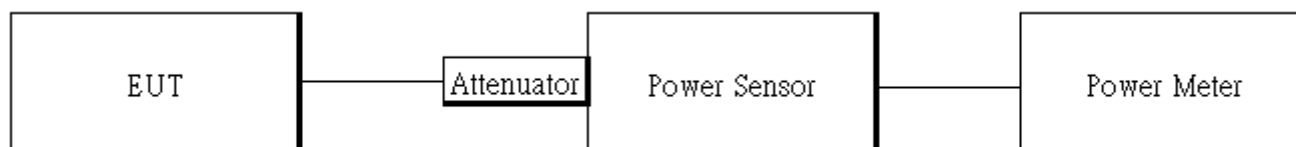
## 9.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter
4. Power Meter is used as the auxiliary test equipment to conduct the output power measurement.
5. Record the max. reading and add  $10 \log(1/\text{duty cycle})$ .
6. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.

## 9.3 Measurement Equipment Used

| EQUIPMENT TYPE  | MFR           | MODEL NUMBER | SERIAL NUMBER | LAST CAL.  | CAL DUE.   |
|-----------------|---------------|--------------|---------------|------------|------------|
| Power Meter     | Anritsu       | ML2496A      | 1804001       | 02/01/2018 | 01/31/2019 |
| Power Sensor    | Anritsu       | MA2411B      | 1726104       | 02/01/2018 | 01/31/2019 |
| Power Sensor    | Anritsu       | MA2411B      | 1726107       | 02/01/2018 | 01/31/2019 |
| DC Power Supply | Anritsu       | E3640A       | MY52410006    | 11/28/2017 | 11/27/2018 |
| Attenuator      | Mini-Circuit  | BW-S10W2+    | 2             | 01/02/2018 | 01/01/2019 |
| DC Block        | Mini-Circuits | BLK-18-S+    | 1             | 01/02/2018 | 01/01/2019 |
| Coaxial Cables  | N/A           | WK CE Cable  | N/A           | 01/02/2018 | 01/01/2019 |
| Notebook        | Lenovo        | T440P        | P0000564      | N/A        | N/A        |

## 9.4 Test Set-up



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## 9.5 Measurement Result

### 802.11a\_2TX

| CH  | Frequency (MHz) | Data Rate | Avg. POWER (dBm) |       | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm)         | RESULT |
|-----|-----------------|-----------|------------------|-------|-------------------|------------------|------------------------------|--------|
|     |                 |           | CH 0             | CH 1  |                   |                  |                              |        |
| 36  | 5180            | 6         | 12.23            | 12.18 | 15.29             | 33.781           | 23.98                        | PASS   |
| 44  | 5220            | 6         | 14.13            | 14.27 | 17.28             | 53.484           | 23.98                        | PASS   |
| 48  | 5240            | 6         | 13.88            | 13.73 | 16.89             | 48.835           | 23.98                        | PASS   |
| 52  | 5260            | 6         | 13.9             | 13.78 | 16.92             | 49.228           | 23.98 or 11+10log(B) = 23.85 | PASS   |
| 60  | 5300            | 6         | 13.92            | 13.82 | 16.95             | 49.567           | 23.98 or 11+10log(B) = 24.23 | PASS   |
| 64  | 5320            | 6         | 11.97            | 11.95 | 15.04             | 31.928           | 23.98 or 11+10log(B) = 23.73 | PASS   |
| 100 | 5500            | 6         | 12.09            | 11.84 | 15.05             | 31.978           | 23.98 or 11+10log(B) = 23.80 | PASS   |
| 116 | 5580            | 6         | 13.98            | 13.96 | 17.05             | 50.719           | 23.98 or 11+10log(B) = 23.84 | PASS   |
| 140 | 5700            | 6         | 11.94            | 11.92 | 15.01             | 31.708           | 23.98 or 11+10log(B) = 24.32 | PASS   |

### 802.11n\_HT20\_MIMO

| CH  | Frequency (MHz) | Data Rate | Avg. POWER (dBm) |       | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm)         | RESULT |
|-----|-----------------|-----------|------------------|-------|-------------------|------------------|------------------------------|--------|
|     |                 |           | CH 0             | CH 1  |                   |                  |                              |        |
| 36  | 5180            | MCS8      | 12.22            | 12.15 | 15.27             | 33.668           | 23.98                        | PASS   |
| 44  | 5220            | MCS8      | 14.29            | 14.08 | 17.27             | 53.373           | 23.98                        | PASS   |
| 48  | 5240            | MCS8      | 13.84            | 13.72 | 16.87             | 48.611           | 23.98                        | PASS   |
| 52  | 5260            | MCS8      | 13.86            | 13.76 | 16.90             | 48.947           | 23.98 or 11+10log(B) = 24.00 | PASS   |
| 60  | 5300            | MCS8      | 13.98            | 13.66 | 16.91             | 49.090           | 23.98 or 11+10log(B) = 24.08 | PASS   |
| 64  | 5320            | MCS8      | 12.05            | 11.65 | 14.94             | 31.200           | 23.98 or 11+10log(B) = 24.07 | PASS   |
| 100 | 5500            | MCS8      | 11.94            | 11.94 | 15.03             | 31.820           | 23.98 or 11+10log(B) = 24.07 | PASS   |
| 116 | 5580            | MCS8      | 13.89            | 13.85 | 16.96             | 49.625           | 23.98 or 11+10log(B) = 24.47 | PASS   |
| 140 | 5700            | MCS8      | 11.88            | 11.78 | 14.92             | 31.026           | 23.98 or 11+10log(B) = 24.55 | PASS   |

### 802.11n\_HT40\_MIMO

| CH  | Frequency (MHz) | Data Rate | Avg. POWER (dBm) |       | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm)         | RESULT |
|-----|-----------------|-----------|------------------|-------|-------------------|------------------|------------------------------|--------|
|     |                 |           | CH 0             | CH 1  |                   |                  |                              |        |
| 38  | 5190            | MCS8      | 12.14            | 12.06 | 15.28             | 33.722           | 23.98                        | PASS   |
| 46  | 5230            | MCS8      | 14.15            | 14.04 | 17.27             | 53.387           | 23.98                        | PASS   |
| 54  | 5270            | MCS8      | 13.82            | 13.76 | 16.97             | 49.763           | 23.98 or 11+10log(B) = 26.93 | PASS   |
| 62  | 5310            | MCS8      | 12.13            | 11.89 | 15.19             | 33.042           | 23.98 or 11+10log(B) = 26.93 | PASS   |
| 102 | 5510            | MCS8      | 12.02            | 11.79 | 15.09             | 32.252           | 23.98 or 11+10log(B) = 26.94 | PASS   |
| 110 | 5550            | MCS8      | 14.01            | 13.93 | 17.15             | 51.870           | 23.98 or 11+10log(B) = 27.17 | PASS   |
| 134 | 5670            | MCS8      | 11.83            | 11.67 | 14.93             | 31.115           | 23.98 or 11+10log(B) = 26.92 | PASS   |

### 802.11ac\_VHT80\_MIMO

| CH  | Frequency (MHz) | Data Rate | Avg. POWER (dBm) |       | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm)         | RESULT |
|-----|-----------------|-----------|------------------|-------|-------------------|------------------|------------------------------|--------|
|     |                 |           | CH 0             | CH 1  |                   |                  |                              |        |
| 42  | 5210            | MCS0      | 11.84            | 11.66 | 15.39             | 34.602           | 23.98                        | PASS   |
| 58  | 5290            | MCS0      | 11.79            | 11.59 | 15.33             | 34.129           | 23.98 or 11+10log(B) = 30.30 | PASS   |
| 106 | 5530            | MCS0      | 11.93            | 11.74 | 15.48             | 35.287           | 23.98 or 11+10log(B) = 30.23 | PASS   |
| 122 | 5610            | MCS0      | 13.89            | 13.73 | 17.45             | 55.602           | 23.98 or 11+10log(B) = 30.28 | PASS   |

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## 10. POWER SPECTRAL DENSITY

### 10.1 Standard Applicable

| OPERZTION Band | EUT CATEGORY |                                   | LIMIT         |
|----------------|--------------|-----------------------------------|---------------|
| U-NII-1        |              | Access Point (Master device )     | 17dBm/ MHz    |
|                |              | Fixed point-to-point Access Ponit |               |
|                | √            | Mobile and portable client device | 11dBm/ MHz    |
| U-NII-2A       | √            |                                   | 11dBm/ MHz    |
| U-NII-2C       | √            |                                   | 11dBm/ MHz    |
| U-NII-3        |              |                                   | 30dBm/ 500kHz |

If transmitting antennas of directional gain greater than 6 dBi are used, both the transmit power and the power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

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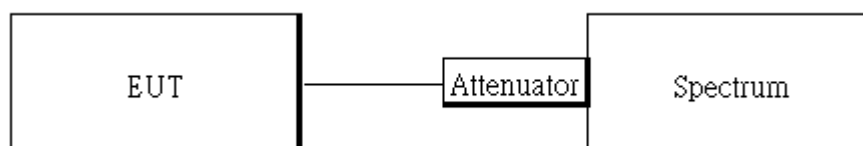
## 10.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
4. **For U-NII1, U-NII-2A, U-NII-2C Band:**  
Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
5. Use the cursor on spectrum to peak search the highest level of trace
6. Record the max. reading and add 10 log(1/duty cycle).
7. Repeat above procedures until all default test channel (low, middle, and high) was complete.

## 10.3 Measurement Equipment Used

| EQUIPMENT TYPE        | MFR           | MODEL NUMBER | SERIAL NUMBER | LAST CAL.  | CAL DUE.   |
|-----------------------|---------------|--------------|---------------|------------|------------|
| EXA Spectrum Analyzer | Agilent       | N9010A       | MY57120290    | 02/14/2018 | 02/13/2019 |
| DC Power Supply       | Anritsu       | E3640A       | MY52410006    | 11/28/2017 | 11/27/2018 |
| Temperature Chamber   | TERCHY        | MHG-120LF    | 911009        | 05/18/2018 | 05/17/2019 |
| Attenuator            | Mini-Circuit  | BW-S10W2+    | 2             | 01/02/2018 | 01/01/2019 |
| DC Block              | Mini-Circuits | BLK-18-S+    | 1             | 01/02/2018 | 01/01/2019 |
| Coaxial Cables        | N/A           | WK CE Cable  | N/A           | 01/02/2018 | 01/01/2019 |
| Notebook              | Lenovo        | T440P        | P0000564      | N/A        | N/A        |

## 10.4 Test Set-up



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## 10.5 Measurement Result

| POWER DENSITY 802.11a MODE        |                            |        |             |                             |             |             |
|-----------------------------------|----------------------------|--------|-------------|-----------------------------|-------------|-------------|
| Frequency (MHz)                   | PPSD W/O Duty Factor (dBm) | Offset | Duty Factor | PPSD With Duty Factor (dBm) | Limit (dBm) | Margin (dB) |
| 5180                              | 3.30                       | 10.68  | 0.07        | 3.37                        | 11          | -7.63       |
| 5220                              | 5.53                       | 10.68  | 0.07        | 5.60                        | 11          | -5.40       |
| 5240                              | 4.91                       | 10.68  | 0.07        | 4.98                        | 11          | -6.02       |
| 5260                              | 4.56                       | 10.68  | 0.07        | 4.63                        | 11          | -6.37       |
| 5300                              | 4.83                       | 10.68  | 0.07        | 4.90                        | 11          | -6.10       |
| 5320                              | 2.09                       | 10.68  | 0.07        | 2.16                        | 11          | -8.84       |
| 5500                              | 2.62                       | 10.68  | 0.07        | 2.69                        | 11          | -8.31       |
| 5580                              | 4.86                       | 10.68  | 0.07        | 4.93                        | 11          | -6.07       |
| 5700                              | 3.34                       | 10.68  | 0.07        | 3.41                        | 11          | -7.59       |
| POWER DENSITY 802.11n HT20 MODE   |                            |        |             |                             |             |             |
| Frequency (MHz)                   | PPSD W/O Duty Factor (dBm) | Offset | Duty Factor | PPSD With Duty Factor (dBm) | Limit (dBm) | Margin (dB) |
| 5180                              | 3.23                       | 10.68  | 0.08        | 3.31                        | 11          | -7.69       |
| 5220                              | 5.03                       | 10.68  | 0.08        | 5.11                        | 11          | -5.89       |
| 5240                              | 4.21                       | 10.68  | 0.08        | 4.29                        | 11          | -6.71       |
| 5260                              | 4.34                       | 10.68  | 0.08        | 4.42                        | 11          | -6.58       |
| 5300                              | 4.28                       | 10.68  | 0.08        | 4.36                        | 11          | -6.64       |
| 5320                              | 1.37                       | 10.68  | 0.08        | 1.45                        | 11          | -9.55       |
| 5500                              | 2.92                       | 10.68  | 0.08        | 3.00                        | 11          | -8.00       |
| 5580                              | 5.06                       | 10.68  | 0.08        | 5.14                        | 11          | -5.86       |
| 5700                              | 2.38                       | 10.68  | 0.08        | 2.46                        | 11          | -8.54       |
| POWER DENSITY 802.11n HT40 MODE   |                            |        |             |                             |             |             |
| Frequency (MHz)                   | PPSD W/O Duty Factor (dBm) | Offset | Duty Factor | PPSD With Duty Factor (dBm) | Limit (dBm) | Margin (dB) |
| 5190                              | -0.05                      | 10.68  | 0.17        | 0.12                        | 11          | -10.88      |
| 5230                              | 1.41                       | 10.68  | 0.17        | 1.58                        | 11          | -9.42       |
| 5270                              | 0.61                       | 10.68  | 0.17        | 0.78                        | 11          | -10.22      |
| 5310                              | -0.96                      | 10.68  | 0.17        | -0.79                       | 11          | -11.79      |
| 5510                              | -0.04                      | 10.68  | 0.17        | 0.13                        | 11          | -10.87      |
| 5550                              | 1.84                       | 10.68  | 0.17        | 2.01                        | 11          | -8.99       |
| 5670                              | -0.19                      | 10.68  | 0.17        | -0.02                       | 11          | -11.02      |
| POWER DENSITY 802.11ac VHT80 MODE |                            |        |             |                             |             |             |
| Frequency (MHz)                   | PPSD W/O Duty Factor (dBm) | Offset | Duty Factor | PPSD With Duty Factor (dBm) | Limit (dBm) | Margin (dB) |
| 5210                              | -3.85                      | 10.68  | 0.63        | -3.22                       | 11          | -14.22      |
| 5290                              | -4.55                      | 10.68  | 0.63        | -3.92                       | 11          | -14.92      |
| 5530                              | -2.77                      | 10.68  | 0.63        | -2.14                       | 11          | -13.14      |
| 5610                              | -1.48                      | 10.68  | 0.63        | -0.85                       | 11          | -11.85      |

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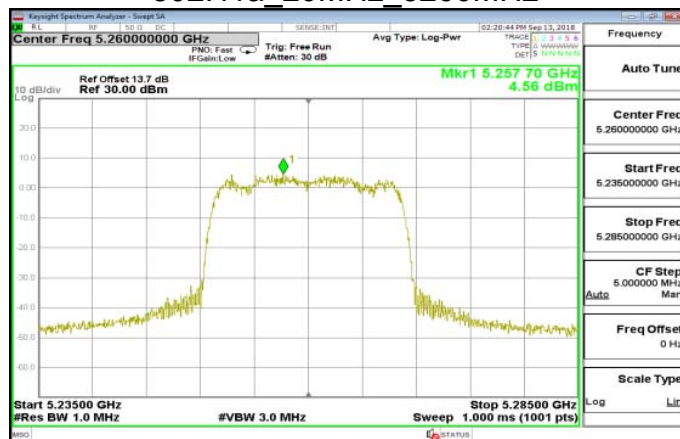
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802.11a 20MHz 5180MHz



802.11a 20MHz 5260MHz



802.11a 20MHz 5220MHz



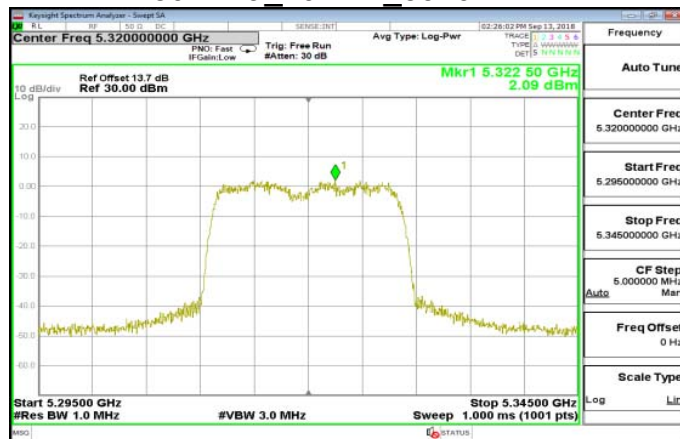
802.11a 20MHz 5300MHz



802.11a 20MHz 5240MHz



802.11a 20MHz 5320MHz



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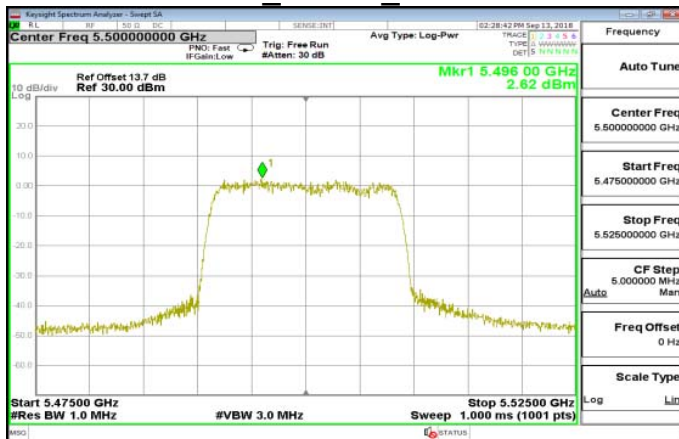
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802.11a 20MHz 5500MHz



802.11n 20MHz 5180MHz



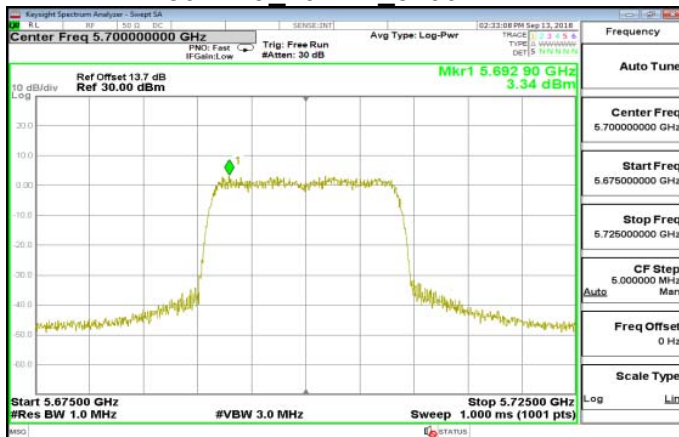
802.11a 20MHz 5580MHz



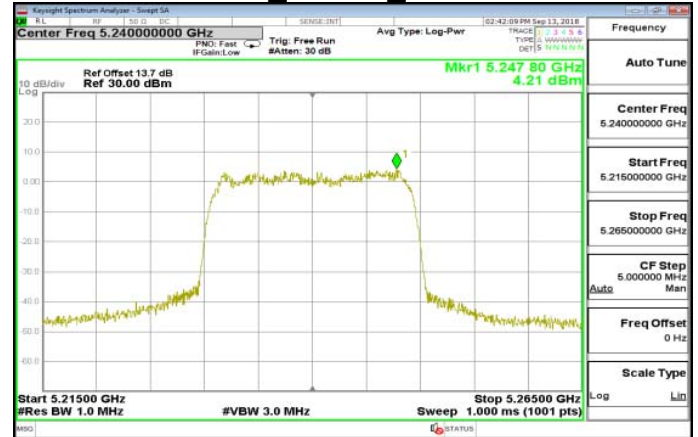
802.11n 20MHz 5220MHz



802.11a 20MHz 5700MHz



802.11n 20MHz 5240MHz

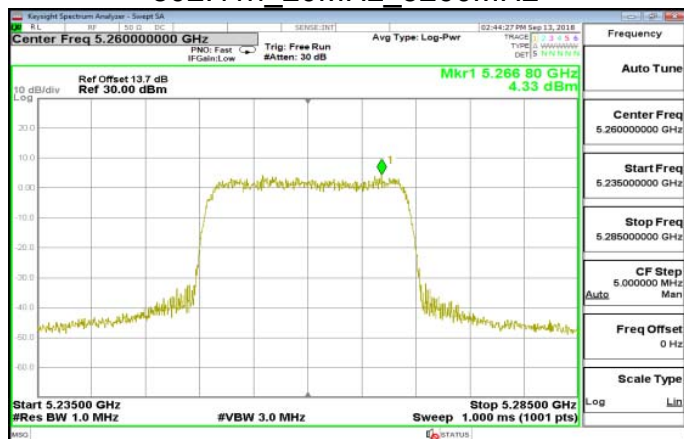


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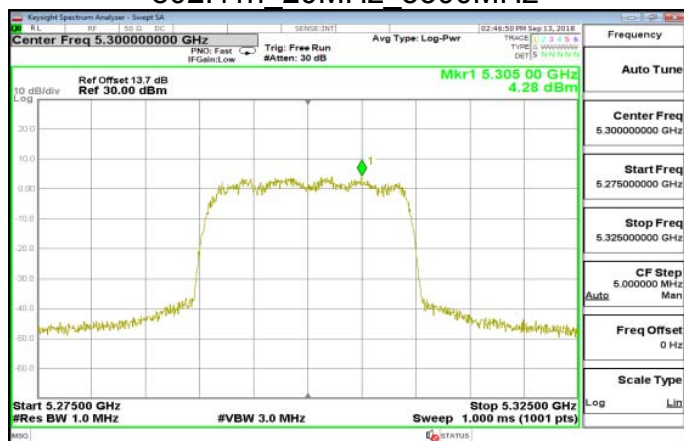
802.11n 20MHz 5260MHz



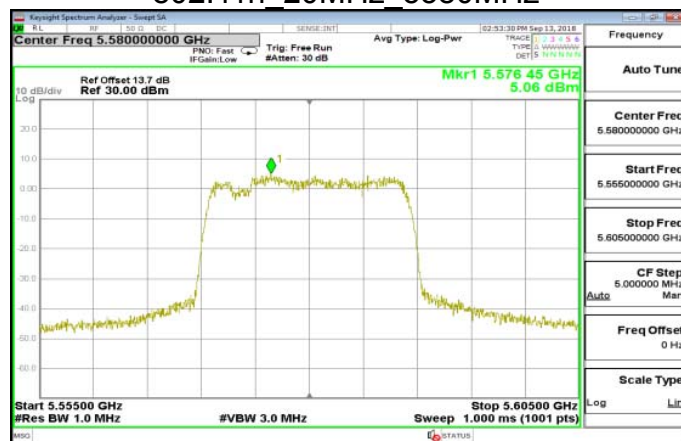
802.11n 20MHz 5500MHz



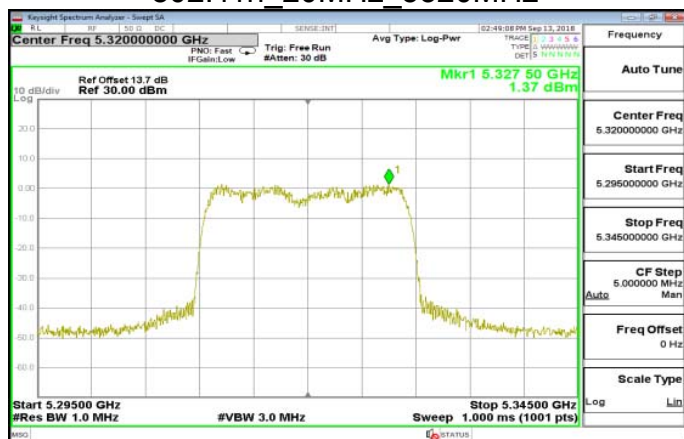
802.11n 20MHz 5300MHz



802.11n 20MHz 5580MHz



802.11n 20MHz 5320MHz



802.11n 20MHz 5700MHz



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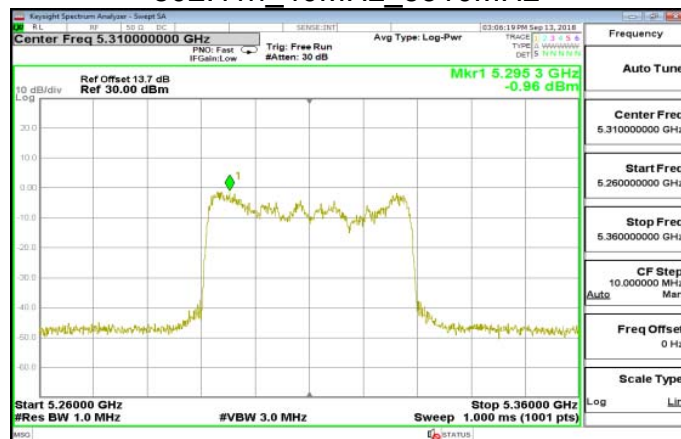
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802.11n 40MHz 5190MHz



802.11n 40MHz 5310MHz



802.11n 40MHz 5230MHz



802.11n 40MHz 5510MHz



802.11n 40MHz 5270MHz



802.11n 40MHz 5550MHz



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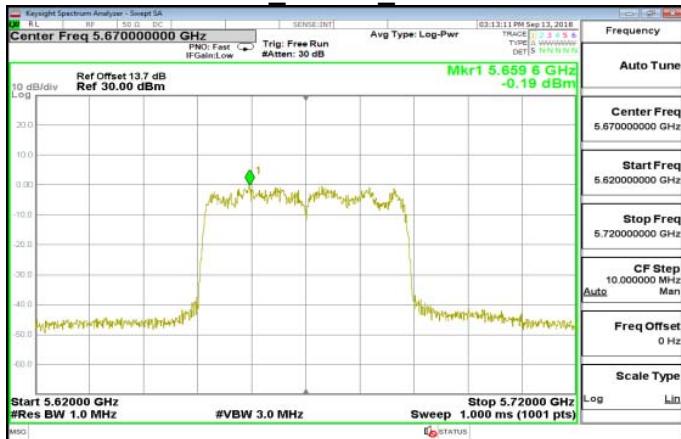
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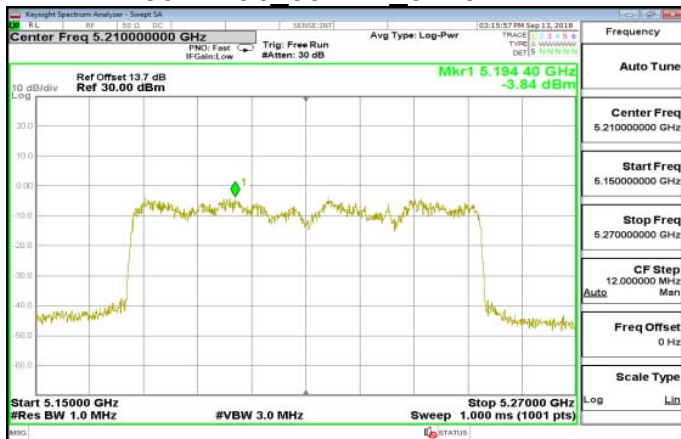
802.11n 40MHz 5670MHz



802.11ac 80MHz 5530MHz



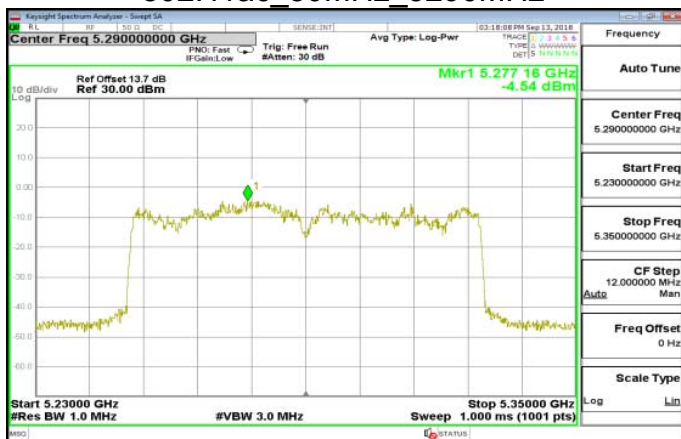
802.11ac 80MHz 5210MHz



802.11ac 80MHz 5610MHz



802.11ac 80MHz 5290MHz



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## 11. UNDESIRABLE RADIATED EMISSION MEASUREMENT

### 11.1 Standard Applicable

The maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

1. For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
2. For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

| APPLICABLE TO                                                                                                                                                                                                                                                                                                                      | LIMIT                                                                                   |                                                                                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| FCC KDB 789033 D02 General<br>UNII Test Procedures New Rules                                                                                                                                                                                                                                                                       | FIELD STRENGTH AT 3m                                                                    |                                                                                             |
|                                                                                                                                                                                                                                                                                                                                    | PK: 74 (dBμV/m)                                                                         | AV 54 (dBμV/m)                                                                              |
| APPLICABLE TO                                                                                                                                                                                                                                                                                                                      | EIRP LIMIT                                                                              | FIELD STRENGTH AT 3m                                                                        |
| 15.407(b)(1)                                                                                                                                                                                                                                                                                                                       | PK: -27 (dBm/MHz)                                                                       | PK: 68.3 (dBμV/m)                                                                           |
| 15.407(b)(2)                                                                                                                                                                                                                                                                                                                       |                                                                                         |                                                                                             |
| 15.407(b)(3)                                                                                                                                                                                                                                                                                                                       |                                                                                         |                                                                                             |
| 15.407(b)(4)(i)                                                                                                                                                                                                                                                                                                                    | PK:-27 (dBm/MHz) *1<br>PK:10 (dBm/MHz) *2<br>PK:15.6 (dBm/MHz) *3<br>PK:27 (dBm/MHz) *4 | PK: 68.2(dBμV/m) *1<br>PK:105.2 (dBμV/m) *2<br>PK: 110.8(dBμV/m) *3<br>PK:122.2 (dBμV/m) *4 |
| *1 beyond 75 MHz or more above of the bandedge.<br>*2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.<br>*3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.<br>*4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge. |                                                                                         |                                                                                             |

$EIRP = (E \cdot d)^2 / 30$ , where E is the field in V/m, d is the measurement distance (3m),  
EIRP is the equivalent isotropically radiated power in Watts.

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Unwanted spurious emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table:

| Frequency (MHz) | Field strength (microvolts/meter) | Distance (meters) |
|-----------------|-----------------------------------|-------------------|
| 0.009-0.490     | 2400/F(KHz)                       | 300               |
| 0.490-1.705     | 24000/F(KHz)                      | 30                |
| 1.705-30        | 30                                | 30                |
| 30-88           | 100                               | 3                 |
| 88-216          | 150                               | 3                 |
| 216-960         | 200                               | 3                 |
| Above 960       | 500                               | 3                 |

**Note:**

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBμV/m) = 20 log Emission level (dBμV/m)

## 11.2 Measurement Equipment Used

| EQUIPMENT TYPE        | MFR             | MODEL NUMBER | SERIAL NUMBER | LAST CAL.  | CAL DUE.   |
|-----------------------|-----------------|--------------|---------------|------------|------------|
| Bi-log Antenna        | SCHWAZBECK      | VULB9168     | 378           | 12/29/2017 | 12/28/2018 |
| Horn Antenna          | Schwarzbeck     | BBHA9120D    | 1441          | 08/16/2018 | 08/15/2019 |
| Horn Antenna          | Schwarzbeck     | BBHA9170     | 184           | 12/12/2017 | 12/11/2018 |
| Loop Antenna          | ETS.LINDGREN    | 6502         | 148045        | 09/26/2017 | 09/25/2018 |
| 3m Site NSA           | SGS             | 966 chamber  | N/A           | 01/02/2018 | 01/01/2019 |
| Spectrum Analyzer     | Agilent         | E4446A       | MY51100003    | 05/15/2018 | 05/14/2019 |
| EMI Test Receiver     | R&S             | ESCI7        | 100335        | 02/02/2018 | 02/01/2019 |
| Pre-Amplifier         | HP              | 8449B        | 3008A00578    | 01/02/2018 | 01/01/2019 |
| Pre-Amplifier         | HP              | 8447D        | 2944A07676    | 01/02/2018 | 01/01/2019 |
| Pre-Amplifier         | EMC Instruments | EMC184045B   | 980135        | 10/27/2017 | 10/26/2018 |
| Attenuator            | Mini-Circuit    | BW-S10W2+    | 2             | 01/02/2018 | 01/01/2019 |
| 2GHz High Pass Filter | Micro-Tronics   | HPM50110     | 36            | 01/02/2018 | 01/01/2019 |
| Filter 5150-5350 MHz  | Micro-Tronics   | BRM50703     | 1             | 01/02/2018 | 01/01/2019 |
| Low Loss Cable        | Huber Suhner    | 966_RX       | 9             | 01/02/2018 | 01/01/2019 |
| Notebook              | Lenovo          | T440P        | P0000564      | N/A        | N/A        |

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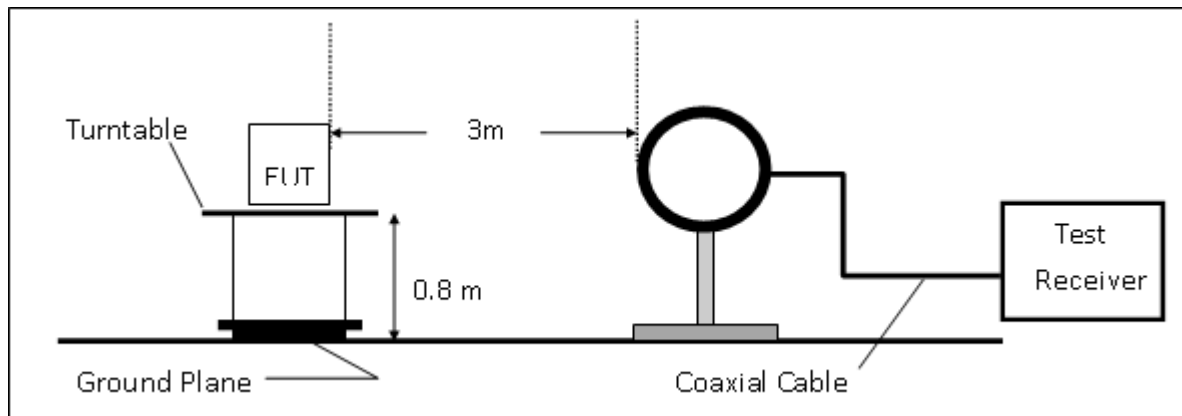
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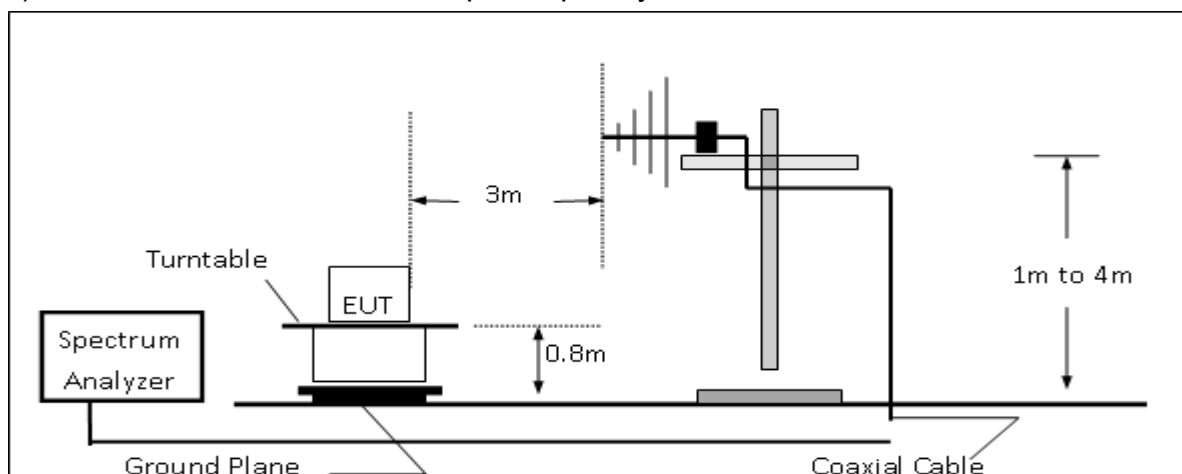
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## 11.3 Test SET-UP

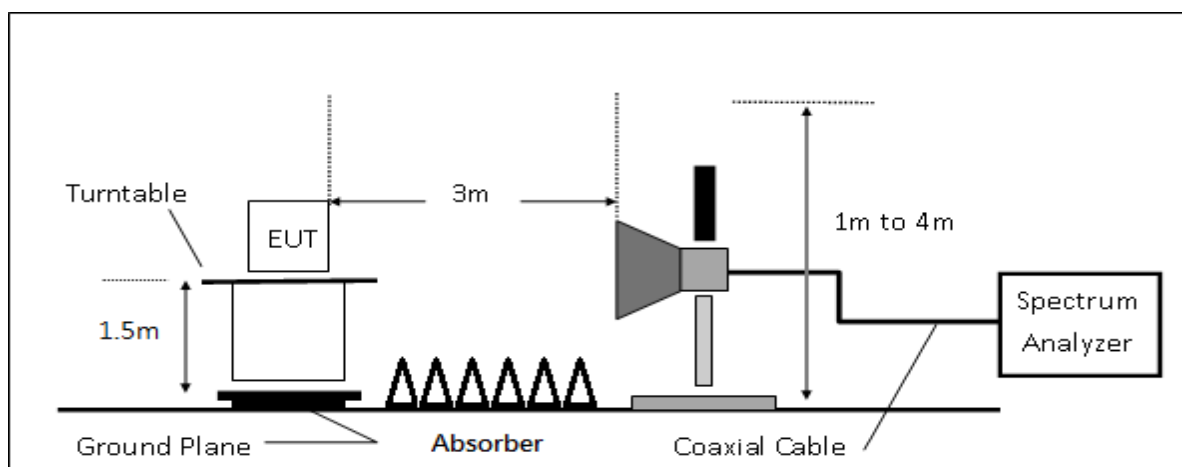
### (A) Radiated Emission Test Set-UP Frequency Below 30MHz.



### (B) Radiated Emission Test Set-UP, Frequency form 30MHz to 1000MHz



### (C) Radiated Emission Test Set-UP Frequency Over 1 GHz



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## 11.4 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
3. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 1.5m for frequency > 1GHz above ground plane.
4. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
5. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
6. Set the spectrum analyzer as RBW=120 kHz and VBW=300 kHz for Peak Detector (PK) and Quasi-peak (QP) at frequency below 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Peak Detector at frequency above 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T (Duty cycle < 98%) for Average Detector at frequency above 1 GHz.
9. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
10. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
11. Repeat above procedures until all frequency measured were complete.

## 11.5 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

|       |                        |                                            |
|-------|------------------------|--------------------------------------------|
| Where | FS = Field Strength    | CL = Cable Attenuation Factor (Cable Loss) |
|       | RA = Reading Amplitude | AG = Amplifier Gain                        |
|       | AF = Antenna Factor    |                                            |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

## 11.6 Test Results of Radiated Spurious Emissions form 9 kHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) was not reported.

## 11.7 Measurement Result

Refer to next page for tabular data sheets.

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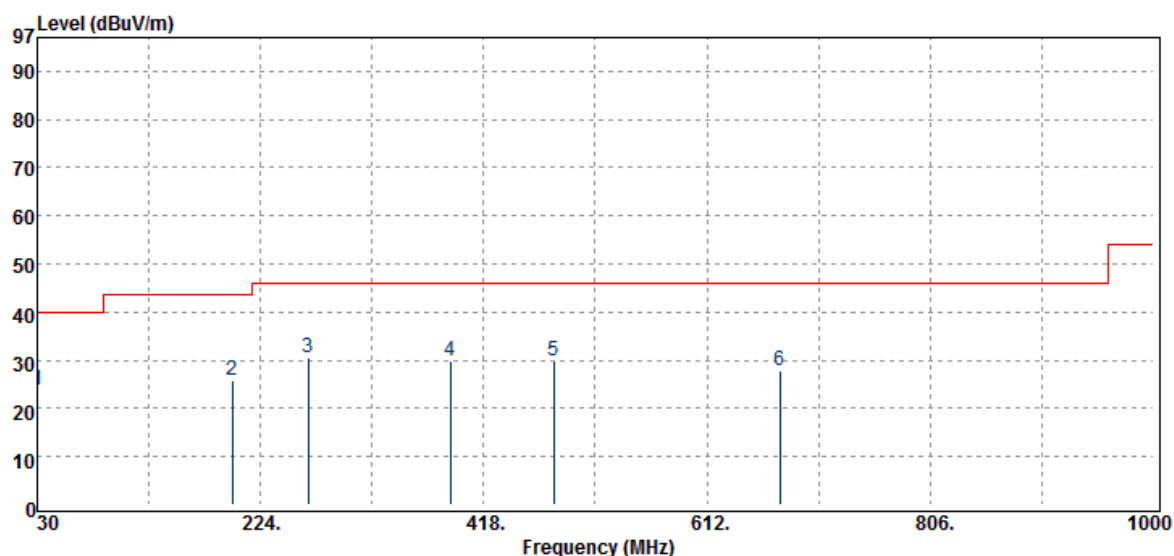
## Radiated Spurious Emission Measurement Result

### Below 1GHz Worst-Case Data:

#### 802.11a 5150~5250 MHz

Operation Band :802.11aB1  
Fundamental Frequency :5220 MHz  
Operation Mode :Tx CH MID  
EUT Pol. :E2 Plane

Test Date :2018-09-24  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Tin  
Measurement Antenna Pol. :VERTICAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 30.00        | Peak                         | 32.73                             | -8.96        | 23.77                  | 40.00                  | -16.23       |
| 199.75       | Peak                         | 35.05                             | -9.26        | 25.79                  | 43.50                  | -17.71       |
| 265.71       | Peak                         | 37.50                             | -6.80        | 30.70                  | 46.00                  | -15.30       |
| 388.90       | Peak                         | 33.59                             | -3.71        | 29.88                  | 46.00                  | -16.12       |
| 479.11       | Peak                         | 31.94                             | -2.10        | 29.84                  | 46.00                  | -16.16       |
| 675.05       | Peak                         | 26.64                             | 1.37         | 28.01                  | 46.00                  | -17.99       |

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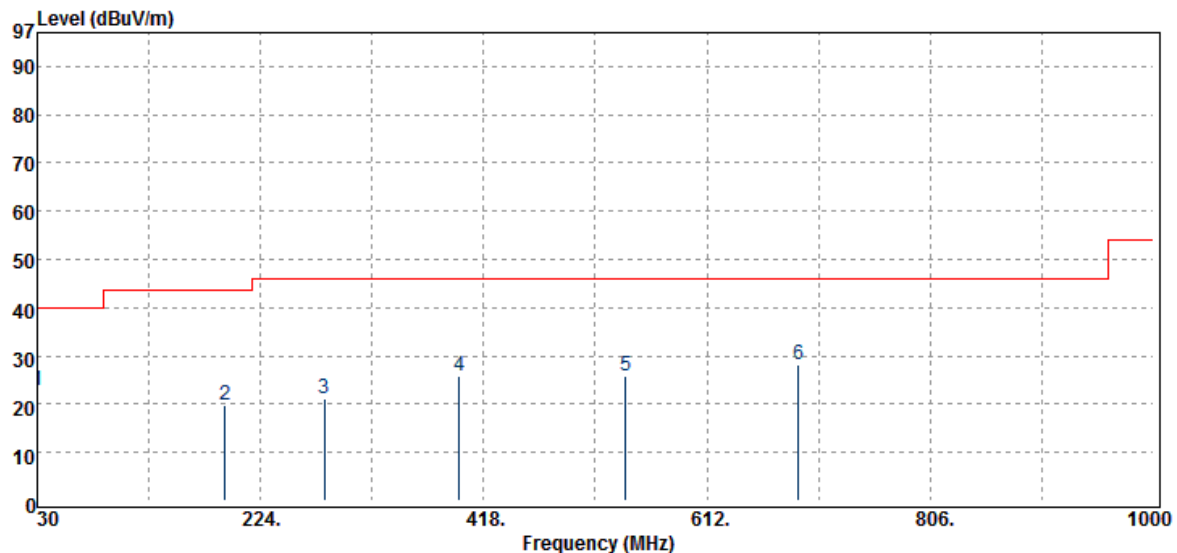
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Operation Band :802.11aB1  
Fundamental Frequency :5220 MHz  
Operation Mode :Tx CH MID  
EUT Pol. :E2 Plane

Test Date :2018-09-24  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Tin  
Measurement Antenna Pol. :HORIZONTAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 30.00        | Peak                         | 31.89                             | -8.96        | 22.93                  | 40.00                  | -17.07       |
| 192.96       | Peak                         | 28.72                             | -9.06        | 19.66                  | 43.50                  | -23.84       |
| 279.29       | Peak                         | 27.39                             | -6.17        | 21.22                  | 46.00                  | -24.78       |
| 396.66       | Peak                         | 29.05                             | -3.36        | 25.69                  | 46.00                  | -20.31       |
| 541.19       | Peak                         | 27.27                             | -1.40        | 25.87                  | 46.00                  | -20.13       |
| 691.54       | Peak                         | 26.70                             | 1.57         | 28.27                  | 46.00                  | -17.73       |

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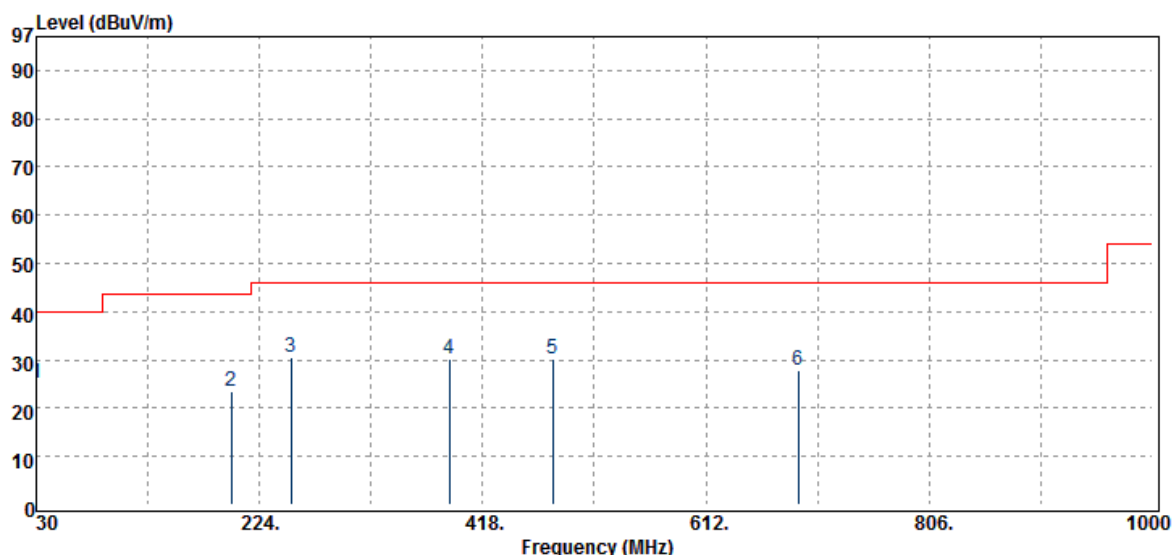
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## 802.11a 5250~5350 MHz

Operation Band :802.11aB2  
Fundamental Frequency :5300 MHz  
Operation Mode :Tx CH MID  
EUT Pol. :E2 Plane

Test Date :2018-09-24  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Tin  
Measurement Antenna Pol. :VERTICAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 30.00        | Peak                         | 34.12                             | -8.96        | 25.16                  | 40.00                  | -14.84       |
| 199.75       | Peak                         | 32.71                             | -9.26        | 23.45                  | 43.50                  | -20.05       |
| 251.16       | Peak                         | 37.99                             | -7.34        | 30.65                  | 46.00                  | -15.35       |
| 388.90       | Peak                         | 33.87                             | -3.71        | 30.16                  | 46.00                  | -15.84       |
| 479.11       | Peak                         | 32.29                             | -2.10        | 30.19                  | 46.00                  | -15.81       |
| 692.51       | Peak                         | 26.45                             | 1.37         | 27.82                  | 46.00                  | -18.18       |

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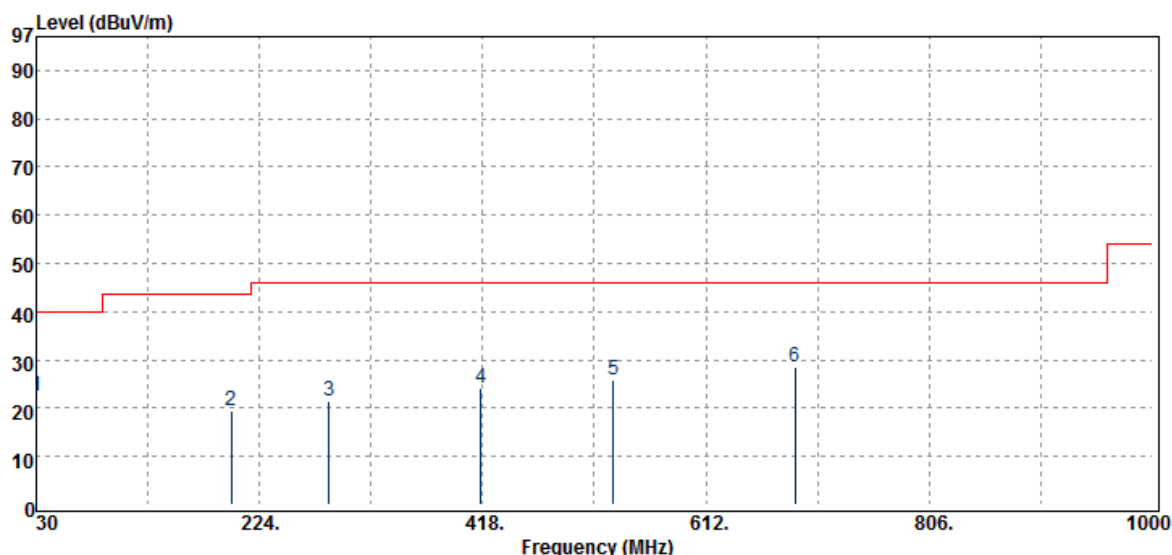
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Operation Band :802.11aB2  
Fundamental Frequency :5300 MHz  
Operation Mode :Tx CH MID  
EUT Pol. :E2 Plane

Test Date :2018-09-24  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Tin  
Measurement Antenna Pol. :HORIZONTAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 30.00        | Peak                         | 31.59                             | -8.96        | 22.63                  | 40.00                  | -17.37       |
| 199.75       | Peak                         | 28.61                             | -9.26        | 19.35                  | 43.50                  | -24.15       |
| 284.14       | Peak                         | 27.45                             | -6.00        | 21.45                  | 46.00                  | -24.55       |
| 416.06       | Peak                         | 27.23                             | -2.91        | 24.32                  | 46.00                  | -21.68       |
| 531.49       | Peak                         | 27.41                             | -1.41        | 26.00                  | 46.00                  | -20.00       |
| 689.60       | Peak                         | 26.75                             | 1.88         | 28.63                  | 46.00                  | -17.37       |

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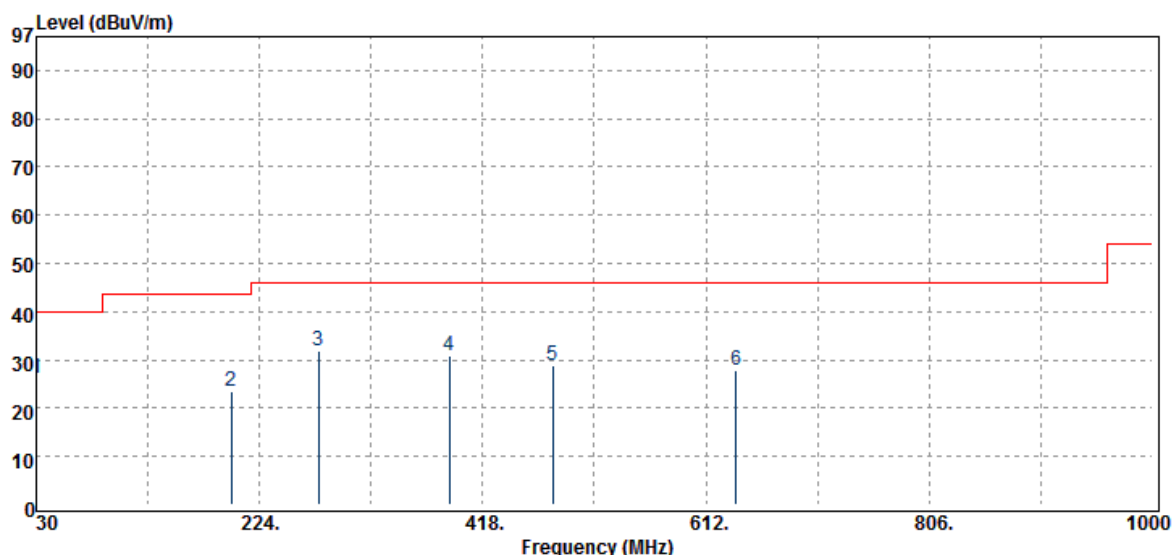
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## 802.11a, 5470~5725 MHz

Operation Band :802.11aB3  
Fundamental Frequency :5580 MHz  
Operation Mode :Tx CH MID  
EUT Pol. :E2 Plane

Test Date :2018-09-24  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Tin  
Measurement Antenna Pol. :VERTICAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 30.00        | Peak                         | 35.00                             | -8.96        | 26.04                  | 40.00                  | -13.96       |
| 199.75       | Peak                         | 32.75                             | -9.26        | 23.49                  | 43.50                  | -20.01       |
| 275.41       | Peak                         | 38.20                             | -6.38        | 31.82                  | 46.00                  | -14.18       |
| 388.90       | Peak                         | 34.59                             | -3.71        | 30.88                  | 46.00                  | -15.12       |
| 479.11       | Peak                         | 31.11                             | -2.10        | 29.01                  | 46.00                  | -16.99       |
| 638.19       | Peak                         | 27.04                             | 0.76         | 27.80                  | 46.00                  | -18.20       |

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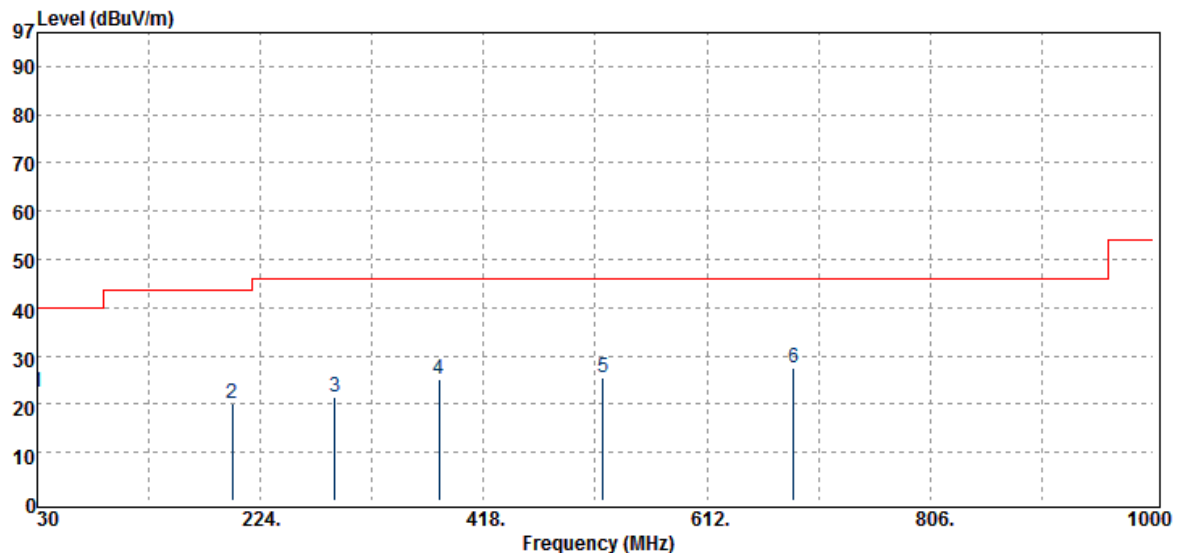
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Operation Band :802.11aB3  
Fundamental Frequency :5580 MHz  
Operation Mode :Tx CH MID  
EUT Pol. :E2 Plane

Test Date :2018-09-24  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Tin  
Measurement Antenna Pol. :HORIZONTAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 30.00        | Peak                         | 31.41                             | -8.96        | 22.45                  | 40.00                  | -17.55       |
| 199.75       | Peak                         | 29.51                             | -9.26        | 20.25                  | 43.50                  | -23.25       |
| 288.99       | Peak                         | 27.40                             | -5.86        | 21.54                  | 46.00                  | -24.46       |
| 379.20       | Peak                         | 29.02                             | -3.82        | 25.20                  | 46.00                  | -20.80       |
| 521.79       | Peak                         | 26.95                             | -1.50        | 25.45                  | 46.00                  | -20.55       |
| 687.66       | Peak                         | 25.87                             | 1.76         | 27.63                  | 46.00                  | -18.37       |

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**Above 1GHz Worst-Case Data:****Radiated Spurious Emission Measurement Result 802.11a, 5150~5250 MHz**

|                       |            |                          |                   |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band        | :802.11aB1 | Test Date                | :2018-09-24       |
| Fundamental Frequency | :5180 MHz  | Temp./Humi.              | :23 deg_C / 62 RH |
| Operation Mode        | :Tx CH LOW | Engineer                 | :Tin              |
| EUT Pol.              | :E2 Plane  | Measurement Antenna Pol. | :VERTICAL         |



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>d $\mu$ V | Factor<br>dB | Actual<br>FS<br>d $\mu$ V/m | Limit<br>@3m<br>d $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|----------------------------------------|--------------|-----------------------------|-----------------------------|--------------|
| 10360.00     | Peak                         | 31.12                                  | 19.71        | 50.83                       | 68.20                       | -17.37       |

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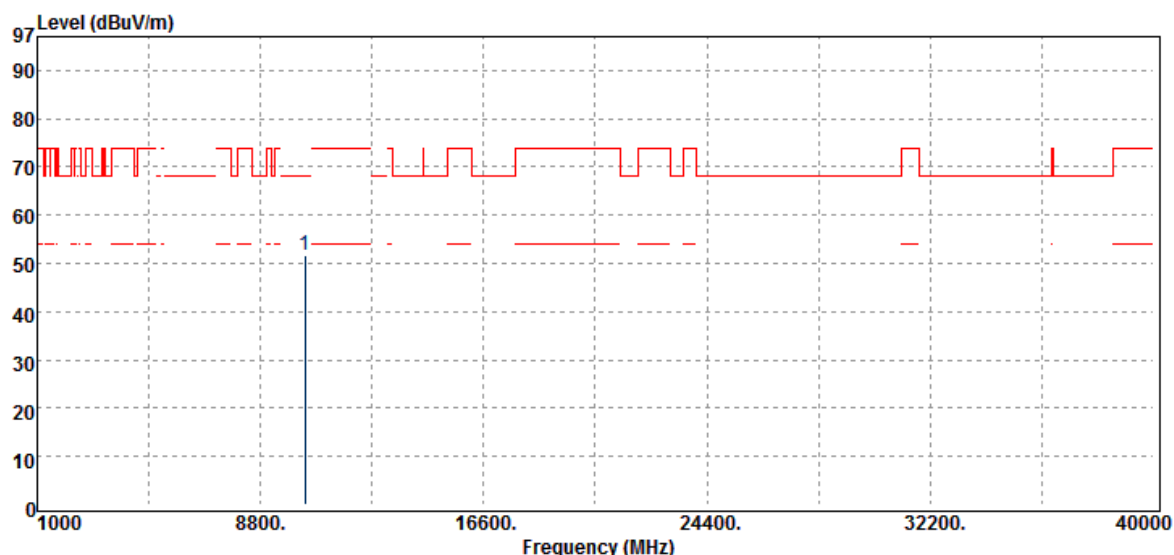
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Operation Band :802.11aB1  
Fundamental Frequency :5180 MHz  
Operation Mode :Tx CH LOW  
EUT Pol. :E2 Plane

Test Date :2018-09-24  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Tin  
Measurement Antenna Pol. :HORIZONTAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 10360.00     | Peak                         | 31.91                                   | 19.71        | 51.62                        | 68.20                        | -16.58       |

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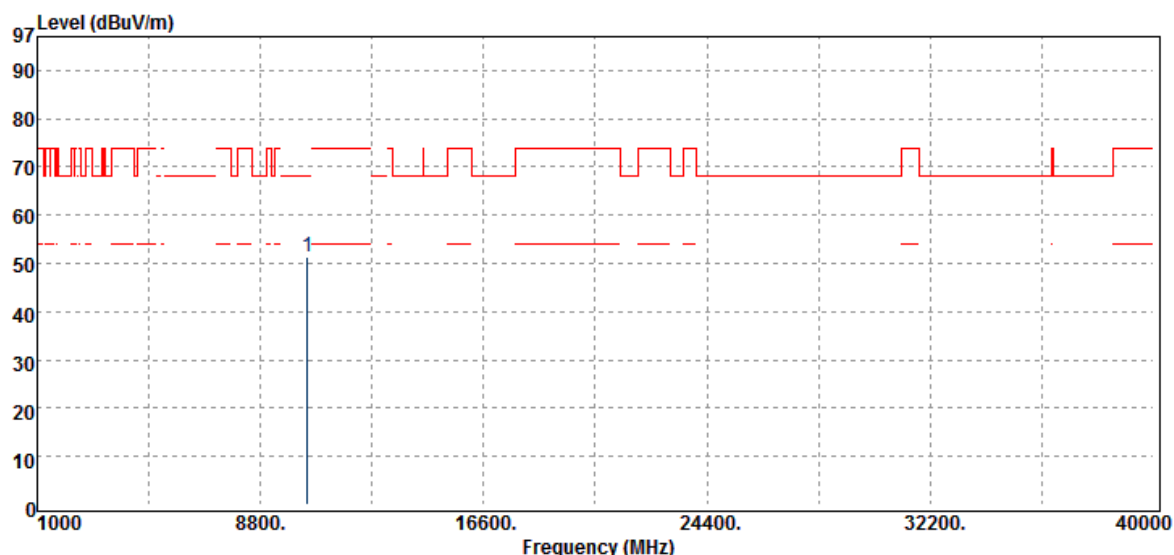
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Operation Band :802.11aB1  
Fundamental Frequency :5220 MHz  
Operation Mode :Tx CH MID  
EUT Pol. :E2 Plane

Test Date :2018-09-24  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Tin  
Measurement Antenna Pol. :VERTICAL



| Freq.    | Detector | Spectrum      | Factor | Actual       | Limit        | Margin |
|----------|----------|---------------|--------|--------------|--------------|--------|
| MHz      | Mode     | Reading Level |        | FS           | @3m          |        |
|          | PK/QP/AV | dB $\mu$ V    | dB     | dB $\mu$ V/m | dB $\mu$ V/m | dB     |
| 10440.00 | Peak     | 31.25         | 20.05  | 51.30        | 68.20        | -16.90 |

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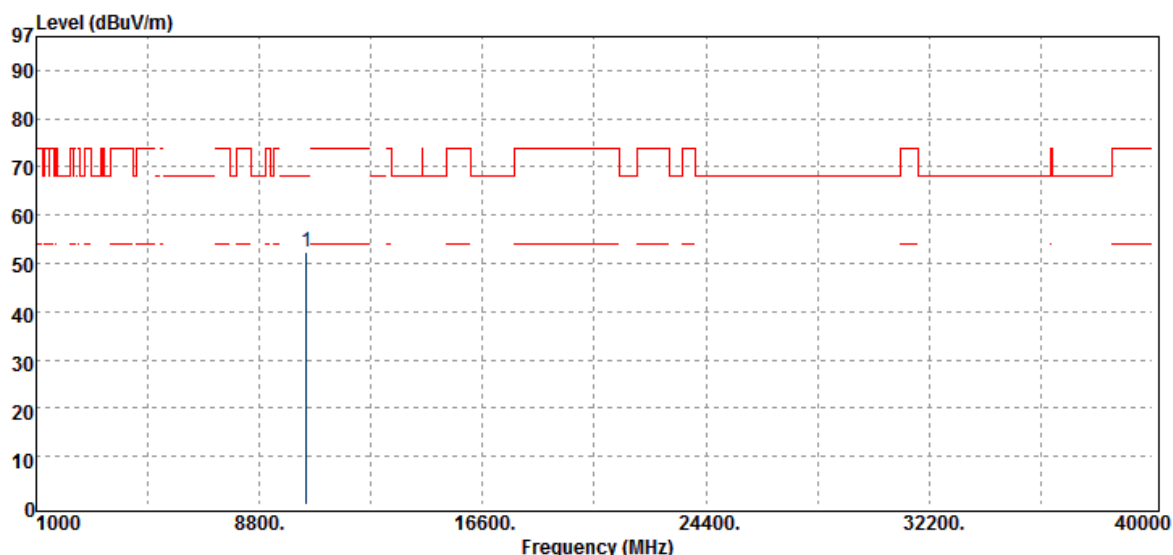
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Operation Band :802.11aB1  
Fundamental Frequency :5220 MHz  
Operation Mode :Tx CH MID  
EUT Pol. :E2 Plane

Test Date :2018-09-24  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Tin  
Measurement Antenna Pol. :HORIZONTAL



| Freq.    | Detector | Spectrum      | Factor | Actual       | Limit        | Margin |
|----------|----------|---------------|--------|--------------|--------------|--------|
| MHz      | Mode     | Reading Level |        | FS           | @3m          |        |
|          | PK/QP/AV | dB $\mu$ V    | dB     | dB $\mu$ V/m | dB $\mu$ V/m | dB     |
| 10440.00 | Peak     | 32.43         | 20.05  | 52.48        | 68.20        | -15.72 |

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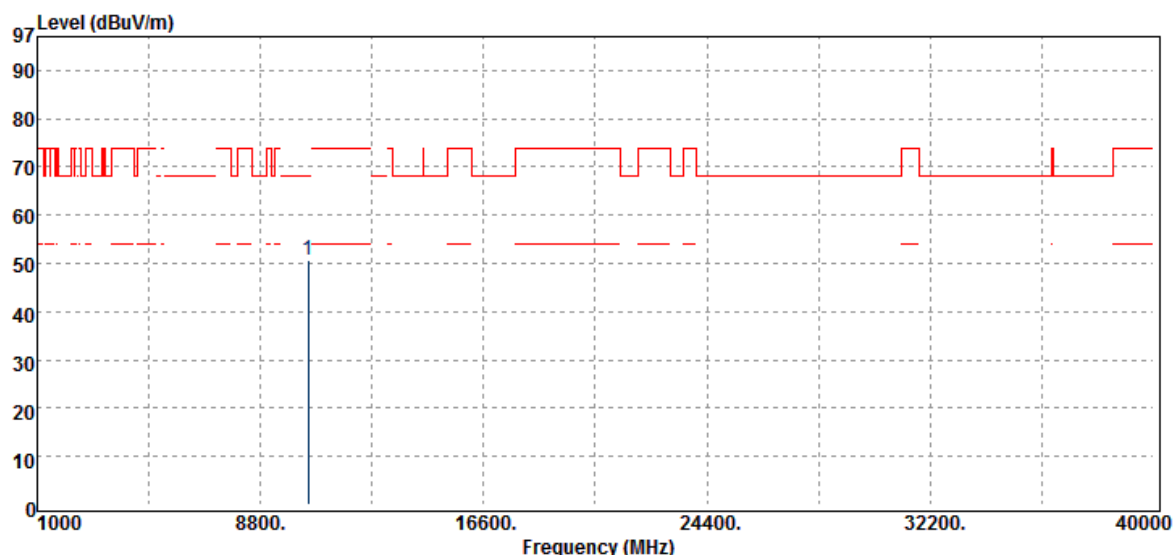
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Operation Band :802.11aB1  
Fundamental Frequency :5240 MHz  
Operation Mode :Tx CH HIGH  
EUT Pol. :E2 Plane

Test Date :2018-09-24  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Tin  
Measurement Antenna Pol. :VERTICAL



| Freq.    | Detector | Spectrum      | Factor | Actual       | Limit        | Margin |
|----------|----------|---------------|--------|--------------|--------------|--------|
| MHz      | Mode     | Reading Level |        | FS           | @3m          |        |
|          | PK/QP/AV | dB $\mu$ V    | dB     | dB $\mu$ V/m | dB $\mu$ V/m | dB     |
| 10480.00 | Peak     | 30.73         | 20.07  | 50.80        | 68.20        | -17.40 |

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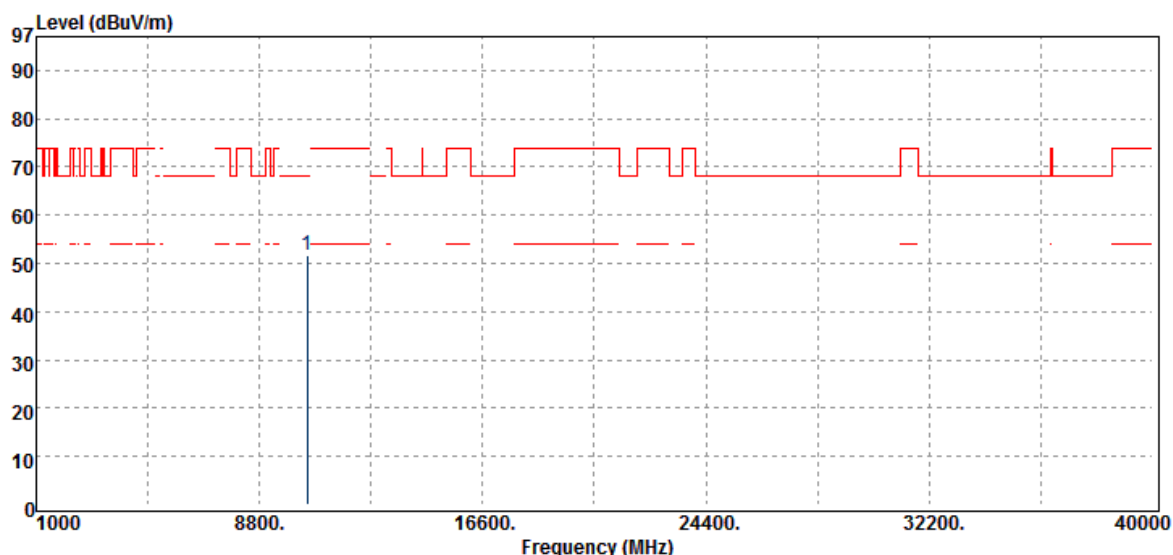
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Operation Band :802.11aB1  
Fundamental Frequency :5240 MHz  
Operation Mode :Tx CH HIGH  
EUT Pol. :E2 Plane

Test Date :2018-09-24  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Tin  
Measurement Antenna Pol. :HORIZONTAL



| Freq.    | Detector | Spectrum      | Factor | Actual       | Limit        | Margin |
|----------|----------|---------------|--------|--------------|--------------|--------|
| MHz      | Mode     | Reading Level |        | FS           | @3m          |        |
|          | PK/QP/AV | dB $\mu$ V    | dB     | dB $\mu$ V/m | dB $\mu$ V/m | dB     |
| 10480.00 | Peak     | 31.68         | 20.07  | 51.75        | 68.20        | -16.45 |

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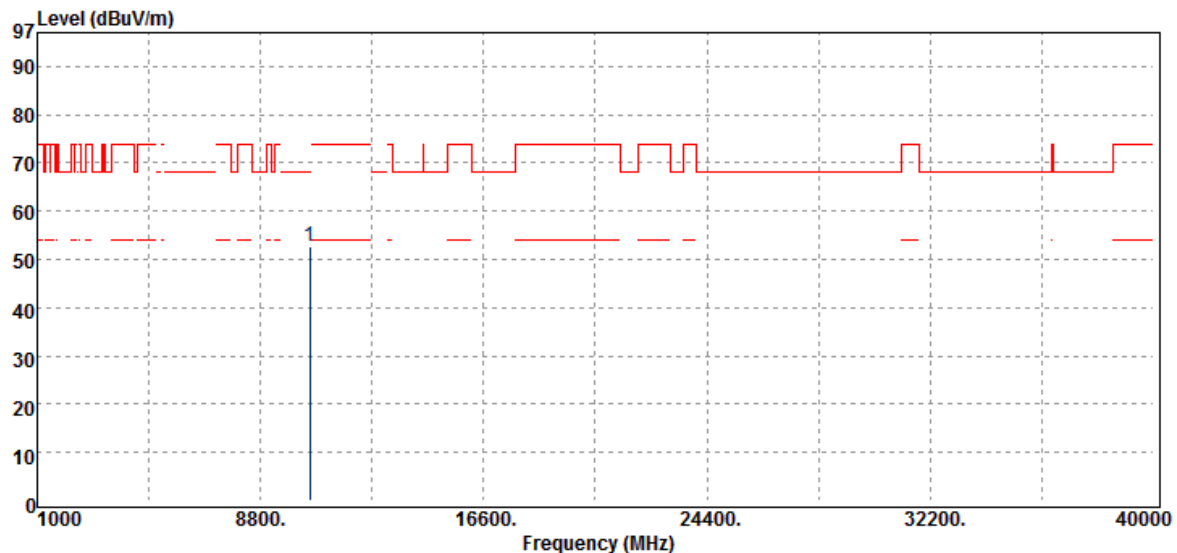
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## Radiated Spurious Emission Measurement Result 802.11a, 5250MHz-5350MHz

|                       |            |                          |                   |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band        | :802.11aB2 | Test Date                | :2018-09-24       |
| Fundamental Frequency | :5260 MHz  | Temp./Humi.              | :23 deg_C / 62 RH |
| Operation Mode        | :Tx CH LOW | Engineer                 | :Tin              |
| EUT Pol.              | :E2 Plane  | Measurement Antenna Pol. | :VERTICAL         |



| Freq.    | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|----------|----------|---------------|--------|--------|--------|--------|
| MHz      | Mode     | Reading Level |        | FS     | @3m    |        |
|          | PK/QP/AV | dBuV          | dB     | dBuV/m | dBuV/m | dB     |
| 10520.00 | Peak     | 32.63         | 20.00  | 52.63  | 68.20  | -15.57 |

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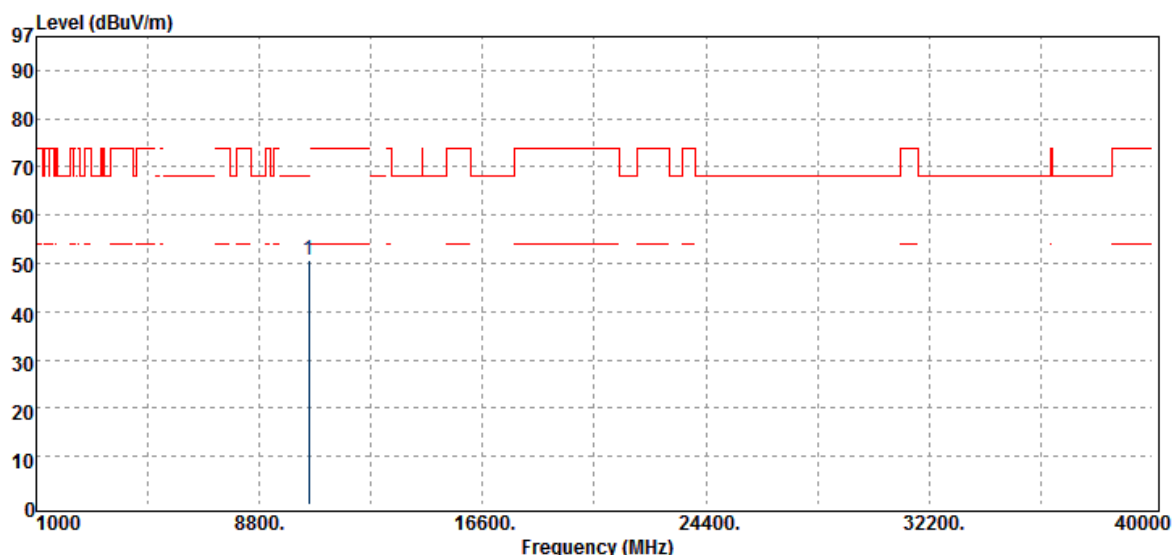
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Operation Band :802.11aB2  
Fundamental Frequency :5260 MHz  
Operation Mode :Tx CH LOW  
EUT Pol. :E2 Plane

Test Date :2018-09-24  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Tin  
Measurement Antenna Pol. :HORIZONTAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 10520.00     | Peak                         | 30.58                                   | 20.00        | 50.58                        | 68.20                        | -17.62       |

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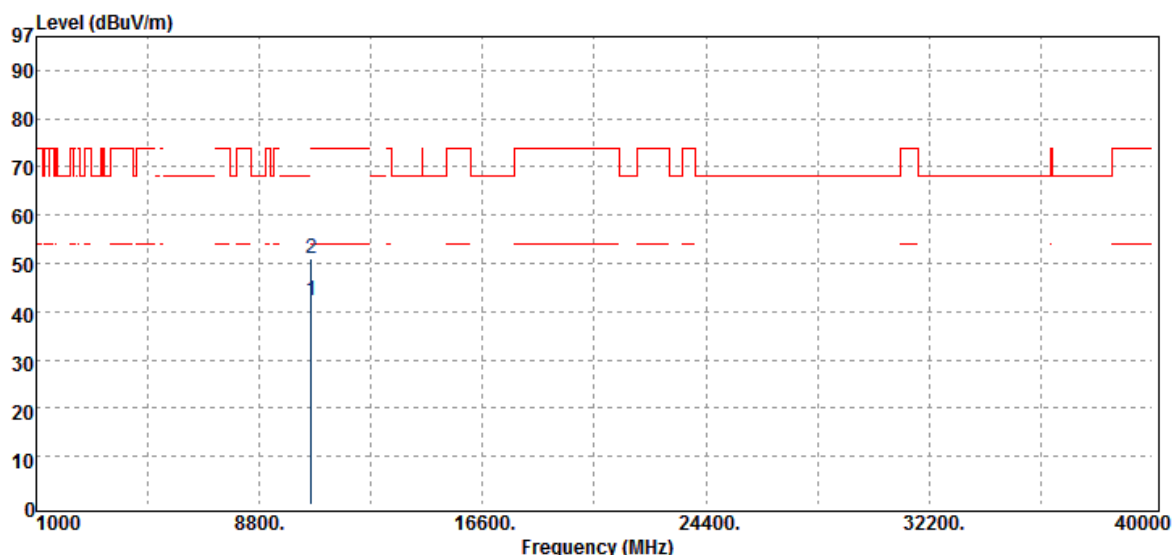
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Operation Band :802.11aB2  
Fundamental Frequency :5300 MHz  
Operation Mode :Tx CH MID  
EUT Pol. :E2 Plane

Test Date :2018-09-24  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Tin  
Measurement Antenna Pol. :VERTICAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 10600.00     | Average                      | 22.06                                   | 20.38        | 42.44                        | 54.00                        | -11.56       |
| 10600.00     | Peak                         | 30.68                                   | 20.38        | 51.06                        | 74.00                        | -22.94       |

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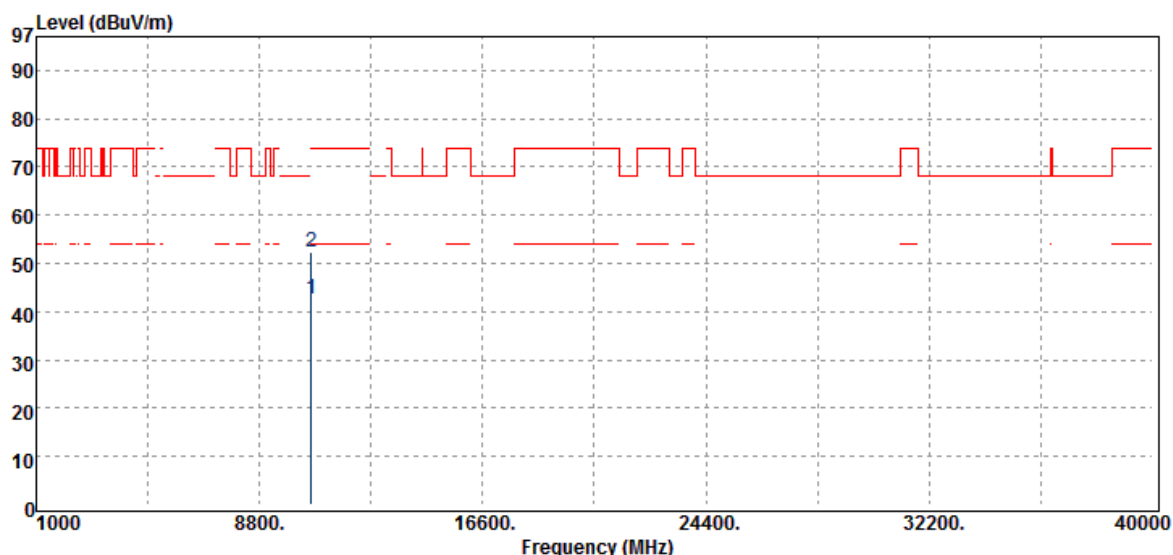
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Operation Band :802.11aB2  
Fundamental Frequency :5300 MHz  
Operation Mode :Tx CH MID  
EUT Pol. :E2 Plane

Test Date :2018-09-24  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Tin  
Measurement Antenna Pol. :HORIZONTAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 10600.00     | Average                      | 22.16                                   | 20.38        | 42.54                        | 54.00                        | -11.46       |
| 10600.00     | Peak                         | 32.02                                   | 20.38        | 52.40                        | 74.00                        | -21.60       |

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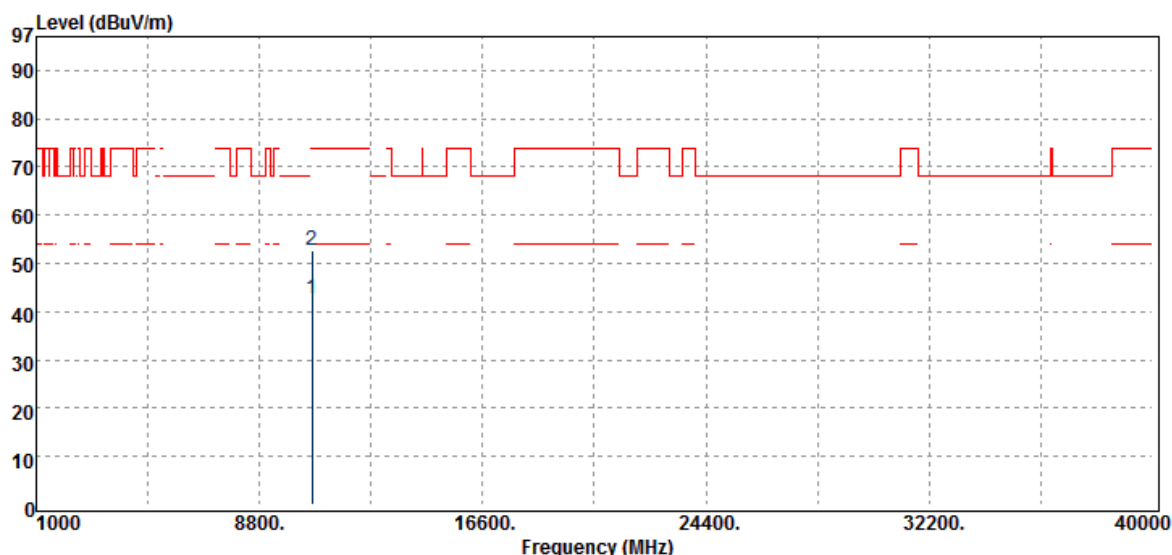
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Operation Band :802.11aB2  
 Fundamental Frequency :5320 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :VERTICAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 10640.00     | Average                      | 22.20                             | 20.44        | 42.64                  | 54.00                  | -11.36       |
| 10640.00     | Peak                         | 32.11                             | 20.44        | 52.55                  | 74.00                  | -21.45       |

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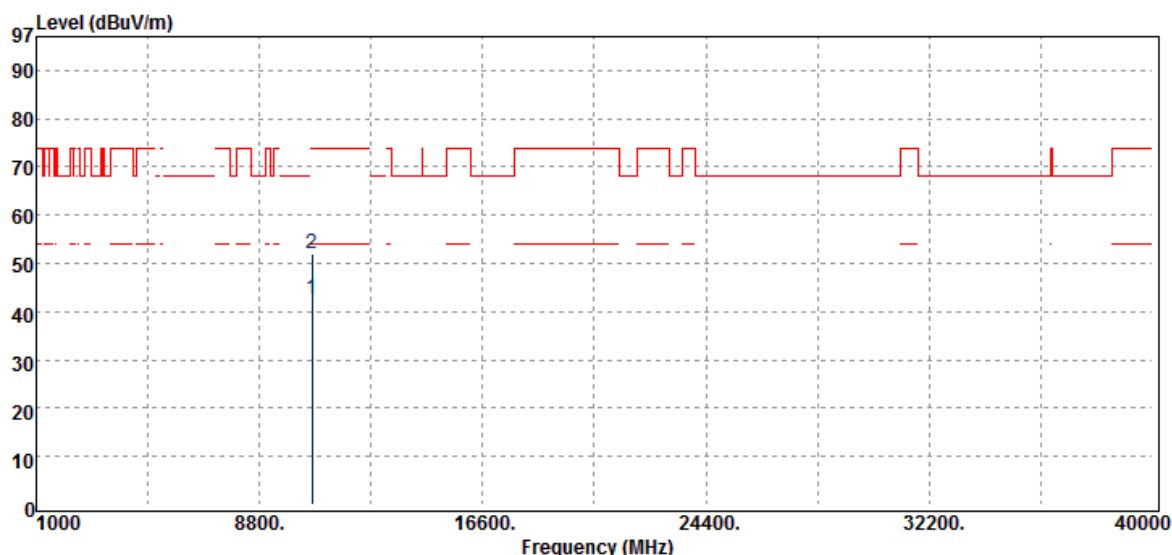
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Operation Band :802.11aB2  
Fundamental Frequency :5320 MHz  
Operation Mode :Tx CH HIGH  
EUT Pol. :E2 Plane

Test Date :2018-09-24  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Tin  
Measurement Antenna Pol. :HORIZONTAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 10640.00     | Average                      | 22.27                                   | 20.44        | 42.71                        | 54.00                        | -11.29       |
| 10640.00     | Peak                         | 31.74                                   | 20.44        | 52.18                        | 74.00                        | -21.82       |

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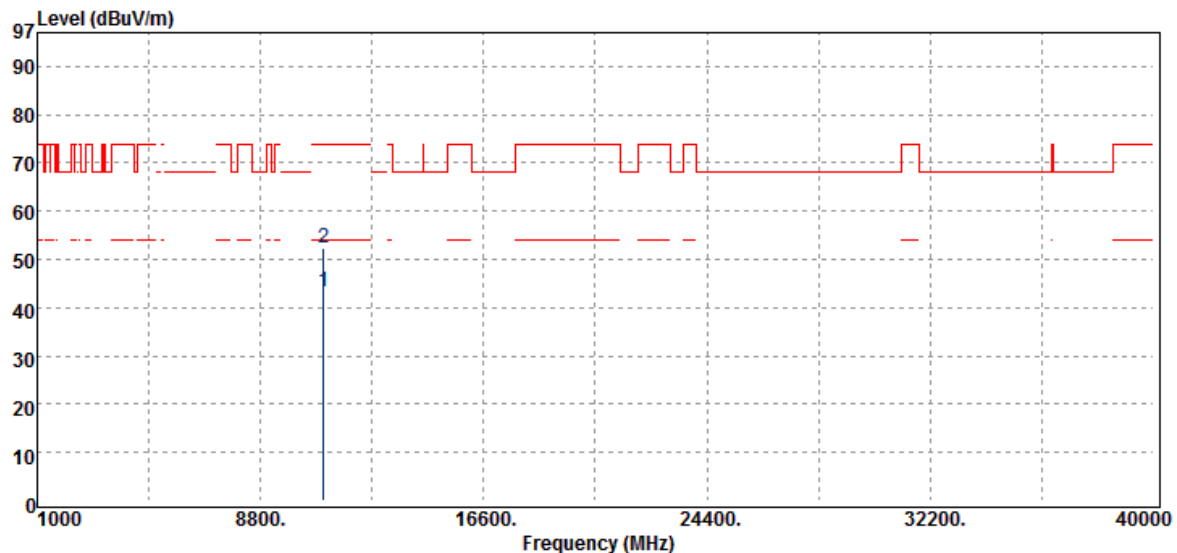
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## Radiated Spurious Emission Measurement Result 802.11a, 5470~5725 MHz

|                       |            |                          |                   |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band        | :802.11aB3 | Test Date                | :2018-09-24       |
| Fundamental Frequency | :5500 MHz  | Temp./Humi.              | :23 deg_C / 62 RH |
| Operation Mode        | :Tx CH LOW | Engineer                 | :Tin              |
| EUT Pol.              | :E2 Plane  | Measurement Antenna Pol. | :VERTICAL         |



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 11000.00     | Average                      | 22.09                             | 21.37        | 43.46                  | 54.00                  | -10.54       |
| 11000.00     | Peak                         | 31.12                             | 21.37        | 52.49                  | 74.00                  | -21.51       |

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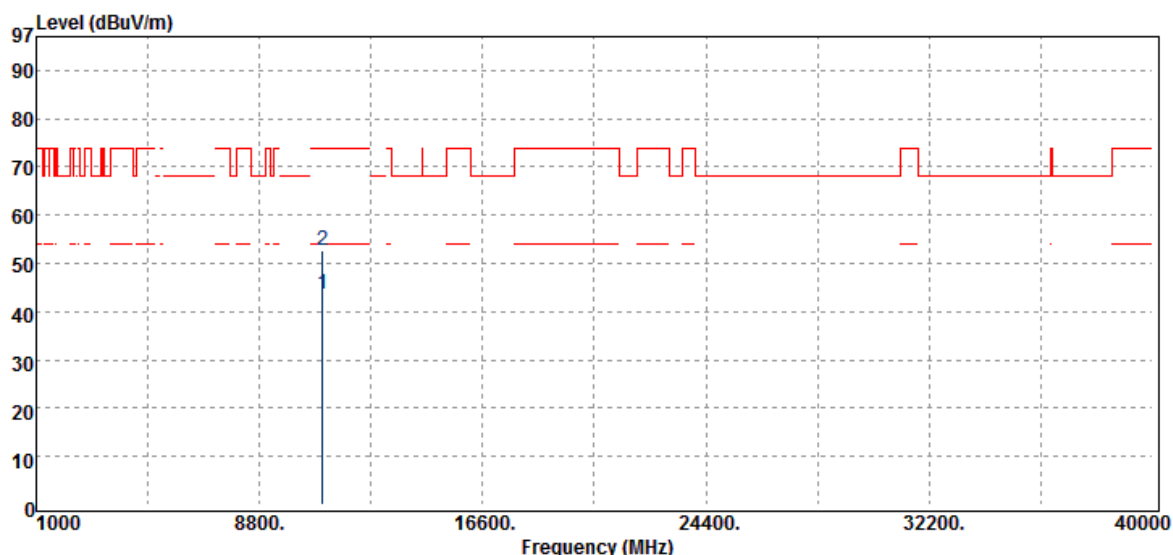
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Operation Band :802.11aB3  
Fundamental Frequency :5500 MHz  
Operation Mode :Tx CH LOW  
EUT Pol. :E2 Plane

Test Date :2018-09-24  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Tin  
Measurement Antenna Pol. :HORIZONTAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 11000.00     | Average                      | 22.21                                   | 21.37        | 43.58                        | 54.00                        | -10.42       |
| 11000.00     | Peak                         | 31.21                                   | 21.37        | 52.58                        | 74.00                        | -21.42       |

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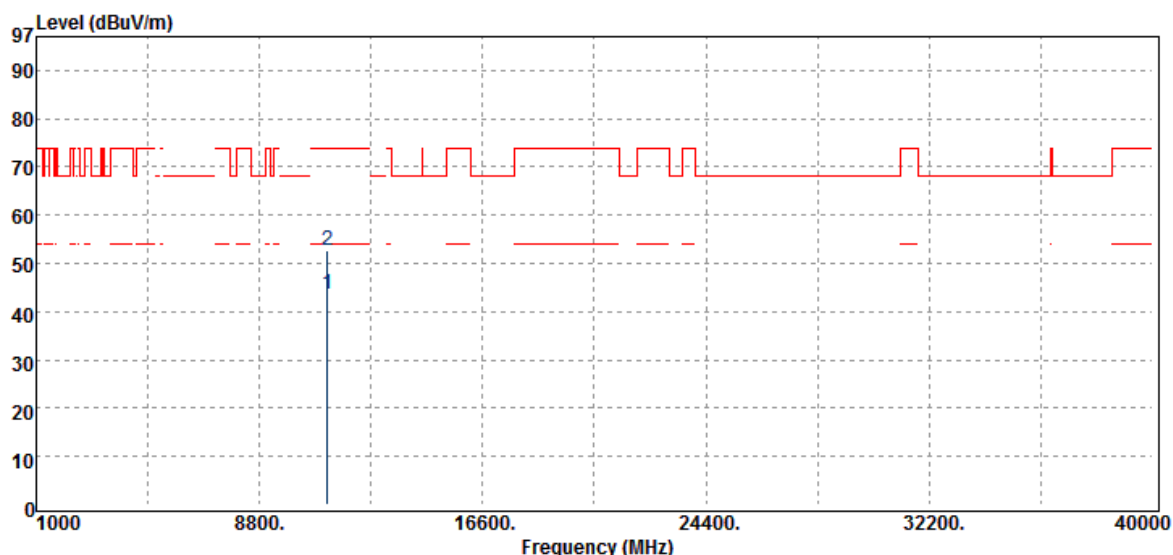
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Operation Band :802.11aB3  
Fundamental Frequency :5580 MHz  
Operation Mode :Tx CH MID  
EUT Pol. :E2 Plane

Test Date :2018-09-24  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Tin  
Measurement Antenna Pol. :VERTICAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 11160.00     | Average                      | 22.13                                   | 21.51        | 43.64                        | 54.00                        | -10.36       |
| 11160.00     | Peak                         | 31.16                                   | 21.51        | 52.67                        | 74.00                        | -21.33       |

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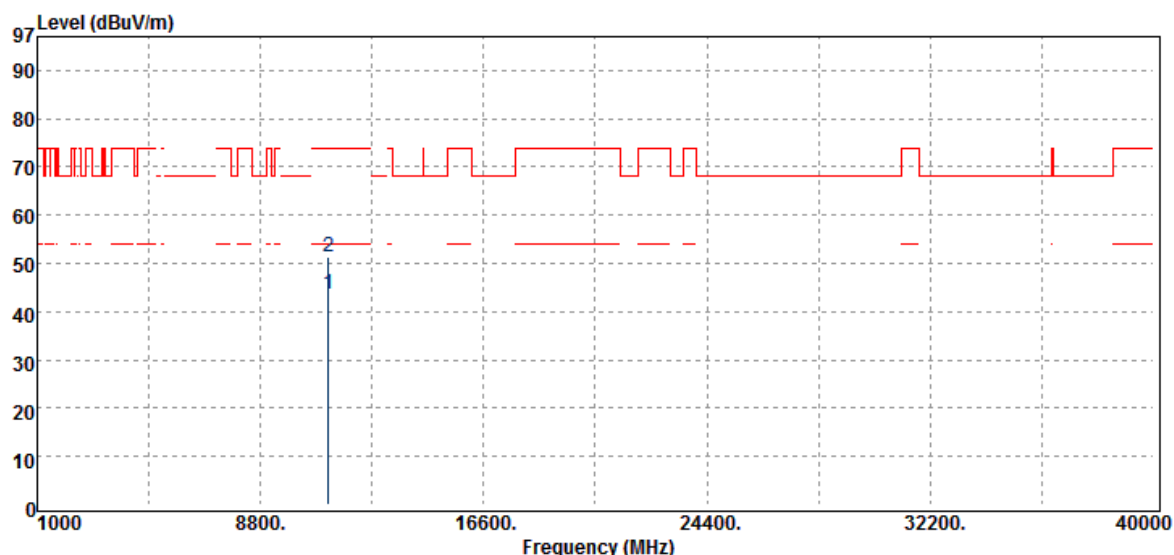
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Operation Band :802.11aB3  
Fundamental Frequency :5580 MHz  
Operation Mode :Tx CH MID  
EUT Pol. :E2 Plane

Test Date :2018-09-24  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Tin  
Measurement Antenna Pol. :HORIZONTAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 11160.00     | Average                      | 22.25                             | 21.51        | 43.76                  | 54.00                  | -10.24       |
| 11160.00     | Peak                         | 29.92                             | 21.51        | 51.43                  | 74.00                  | -22.57       |

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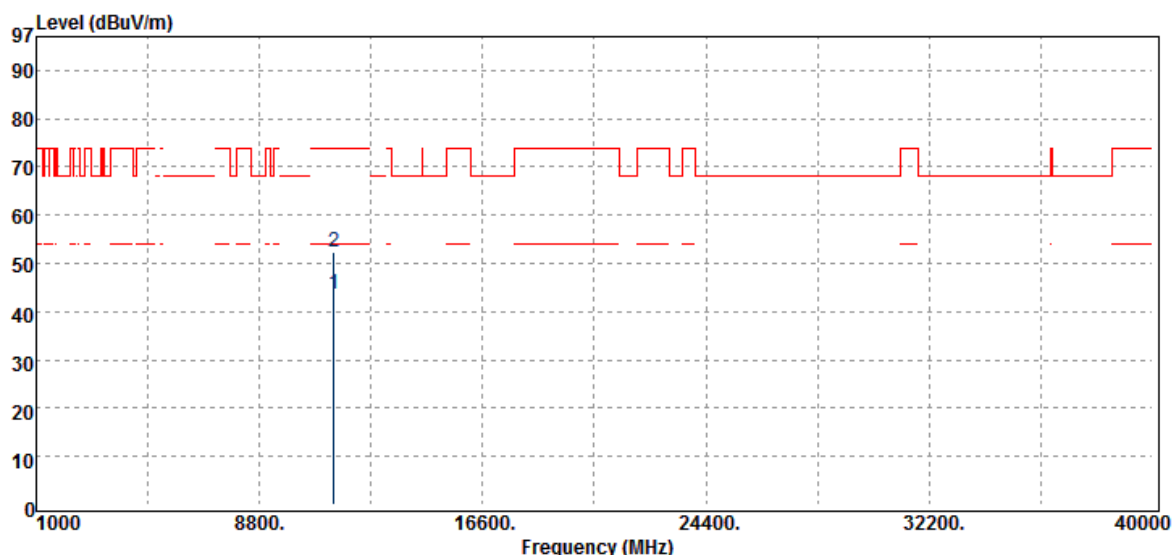
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Operation Band :802.11aB3  
 Fundamental Frequency :5700 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :VERTICAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 11400.00     | Average                      | 21.88                                   | 21.62        | 43.50                        | 54.00                        | -10.50       |
| 11400.00     | Peak                         | 30.81                                   | 21.62        | 52.43                        | 74.00                        | -21.57       |

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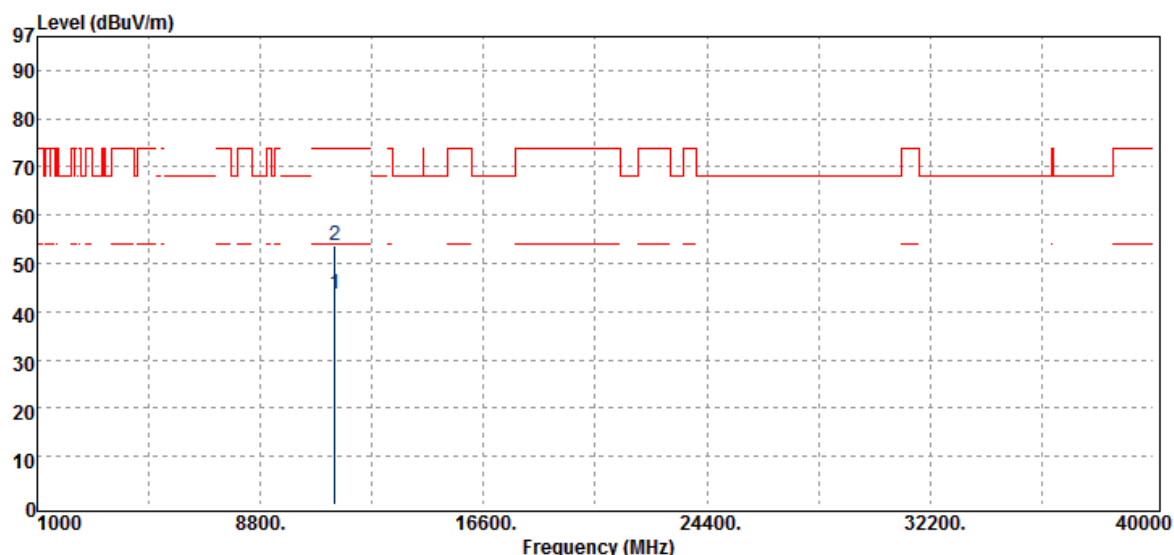
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Operation Band :802.11aB3  
Fundamental Frequency :5700 MHz  
Operation Mode :Tx CH HIGH  
EUT Pol. :E2 Plane

Test Date :2018-09-24  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Tin  
Measurement Antenna Pol. :HORIZONTAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 11400.00     | Average                      | 22.09                                   | 21.62        | 43.71                        | 54.00                        | -10.29       |
| 11400.00     | Peak                         | 32.15                                   | 21.62        | 53.77                        | 74.00                        | -20.23       |

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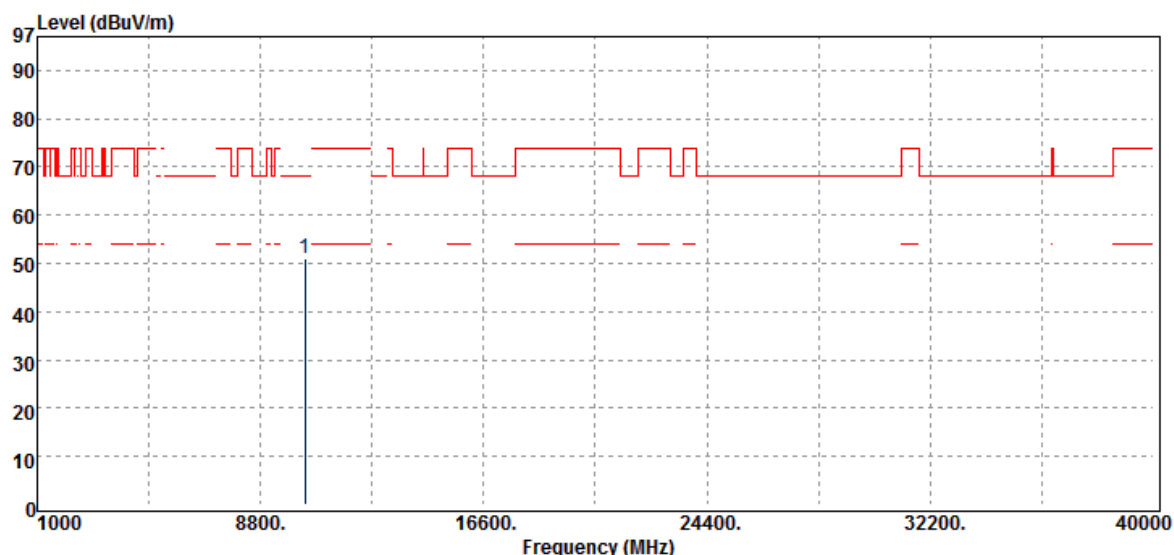
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## Radiated Spurious Emission Measurement Result 802.11n HT20, 5150~5250 MHz

|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11n20B1 | Test Date                | :2018-09-24       |
| Fundamental Frequency | :5180 MHz    | Temp./Humi.              | :23 deg_C / 62 RH |
| Operation Mode        | :Tx CH LOW   | Engineer                 | :Tin              |
| EUT Pol.              | :E2 Plane    | Measurement Antenna Pol. | :VERTICAL         |



| Freq.    | Detector | Spectrum      | Factor | Actual       | Limit        | Margin |
|----------|----------|---------------|--------|--------------|--------------|--------|
| MHz      | Mode     | Reading Level |        | FS           | @3m          |        |
|          | PK/QP/AV | dB $\mu$ V    | dB     | dB $\mu$ V/m | dB $\mu$ V/m | dB     |
| 10360.00 | Peak     | 31.25         | 19.71  | 50.96        | 68.20        | -17.24 |

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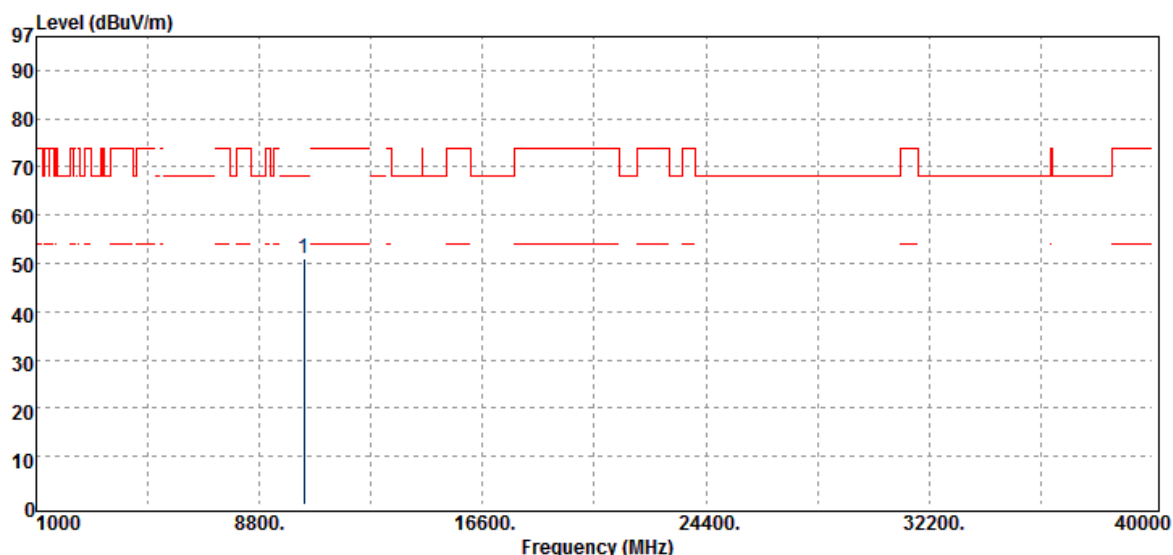
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Operation Band :802.11n20B1  
Fundamental Frequency :5180 MHz  
Operation Mode :Tx CH LOW  
EUT Pol. :E2 Plane

Test Date :2018-09-24  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Tin  
Measurement Antenna Pol. :HORIZONTAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 10360.00     | Peak                         | 31.25                                   | 19.71        | 50.96                        | 68.20                        | -17.24       |

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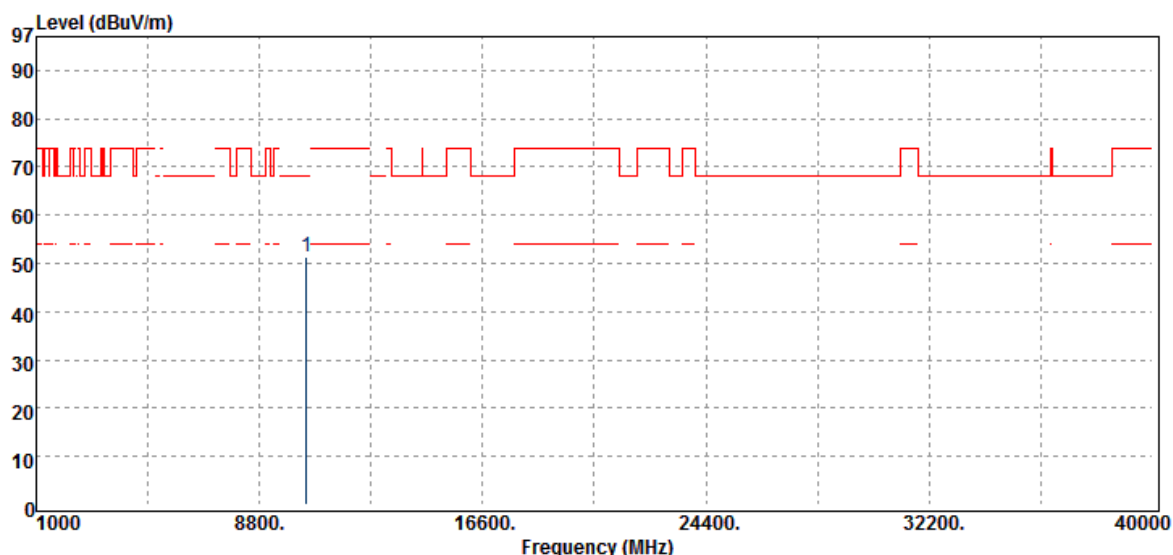
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Operation Band :802.11n20B1  
Fundamental Frequency :5220 MHz  
Operation Mode :Tx CH MID  
EUT Pol. :E2 Plane

Test Date :2018-09-24  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Tin  
Measurement Antenna Pol. :VERTICAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 10440.00     | Peak                         | 31.16                             | 20.05        | 51.21                  | 68.20                  | -16.99       |

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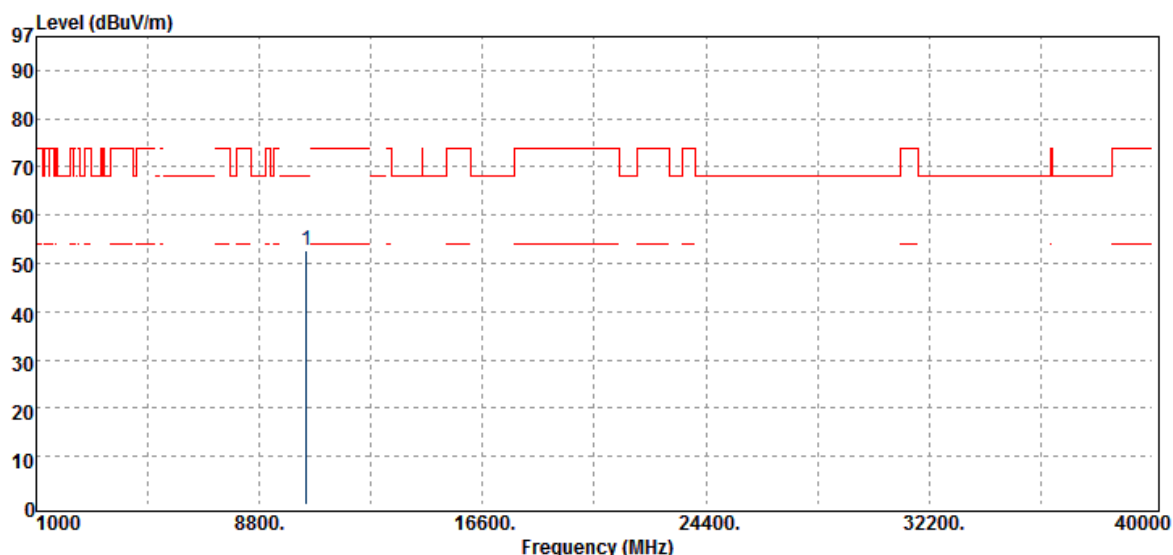
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Operation Band :802.11n20B1  
Fundamental Frequency :5220 MHz  
Operation Mode :Tx CH MID  
EUT Pol. :E2 Plane

Test Date :2018-09-24  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Tin  
Measurement Antenna Pol. :HORIZONTAL



| Freq.    | Detector | Spectrum      | Factor | Actual       | Limit        | Margin |
|----------|----------|---------------|--------|--------------|--------------|--------|
| MHz      | Mode     | Reading Level |        | FS           | @3m          |        |
|          | PK/QP/AV | dB $\mu$ V    | dB     | dB $\mu$ V/m | dB $\mu$ V/m | dB     |
| 10440.00 | Peak     | 32.69         | 20.05  | 52.74        | 68.20        | -15.46 |

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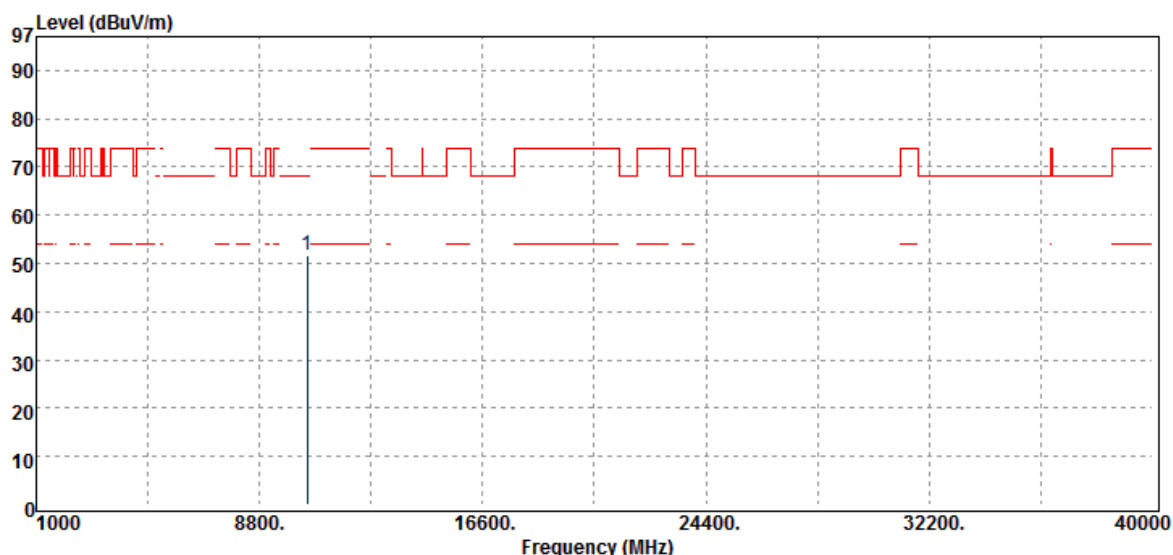
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Operation Band :802.11n20B1  
Fundamental Frequency :5240 MHz  
Operation Mode :Tx CH HIGH  
EUT Pol. :E2 Plane

Test Date :2018-09-24  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Tin  
Measurement Antenna Pol. :VERTICAL



| Freq.    | Detector | Spectrum      | Factor | Actual       | Limit        | Margin |
|----------|----------|---------------|--------|--------------|--------------|--------|
| MHz      | Mode     | Reading Level |        | FS           | @3m          |        |
|          | PK/QP/AV | dB $\mu$ V    | dB     | dB $\mu$ V/m | dB $\mu$ V/m | dB     |
| 10480.00 | Peak     | 31.51         | 20.07  | 51.58        | 68.20        | -16.62 |

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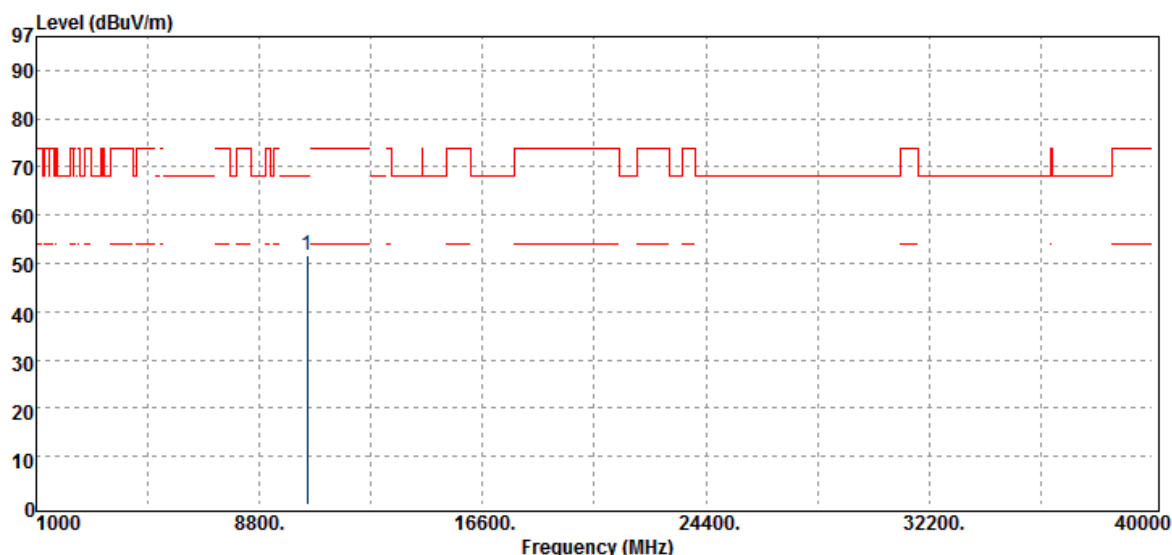
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Operation Band :802.11n20B1  
Fundamental Frequency :5240 MHz  
Operation Mode :Tx CH HIGH  
EUT Pol. :E2 Plane

Test Date :2018-09-24  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Tin  
Measurement Antenna Pol. :HORIZONTAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 10480.00     | Peak                         | 31.75                                   | 20.07        | 51.82                        | 68.20                        | -16.38       |

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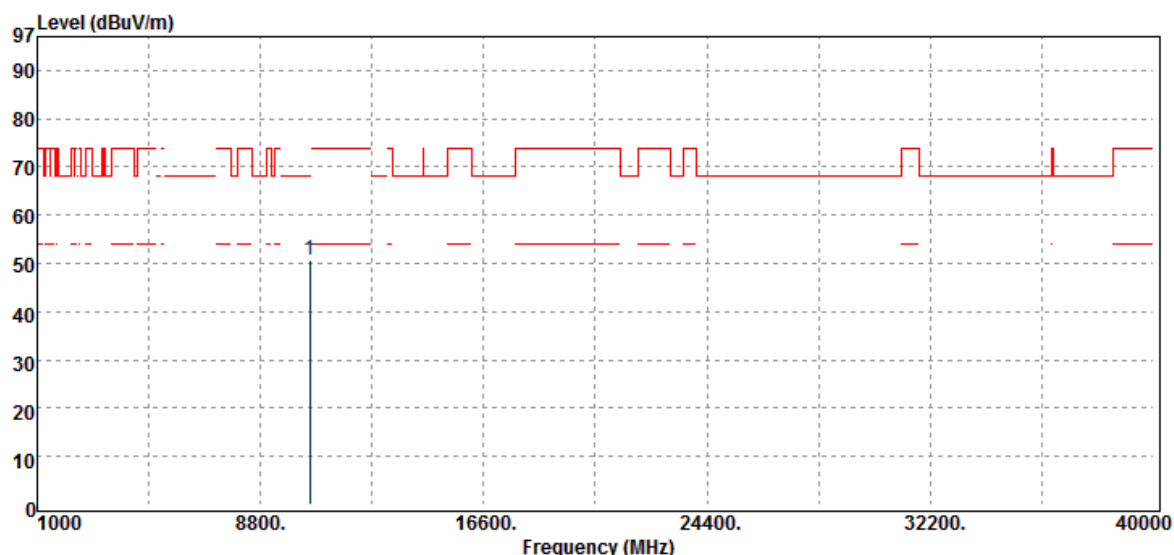
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## Radiated Spurious Emission Measurement Result 802.11n HT20, 5250~5350 MHz

|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11n20B2 | Test Date                | :2018-09-24       |
| Fundamental Frequency | :5260 MHz    | Temp./Humi.              | :23 deg_C / 62 RH |
| Operation Mode        | :Tx CH LOW   | Engineer                 | :Tin              |
| EUT Pol.              | :E2 Plane    | Measurement Antenna Pol. | :VERTICAL         |



| Freq.    | Detector | Spectrum      | Factor | Actual       | Limit        | Margin |
|----------|----------|---------------|--------|--------------|--------------|--------|
| MHz      | Mode     | Reading Level |        | FS           | @3m          |        |
|          | PK/QP/AV | dB $\mu$ V    | dB     | dB $\mu$ V/m | dB $\mu$ V/m | dB     |
| 10520.00 | Peak     | 30.73         | 20.00  | 50.73        | 68.20        | -17.47 |

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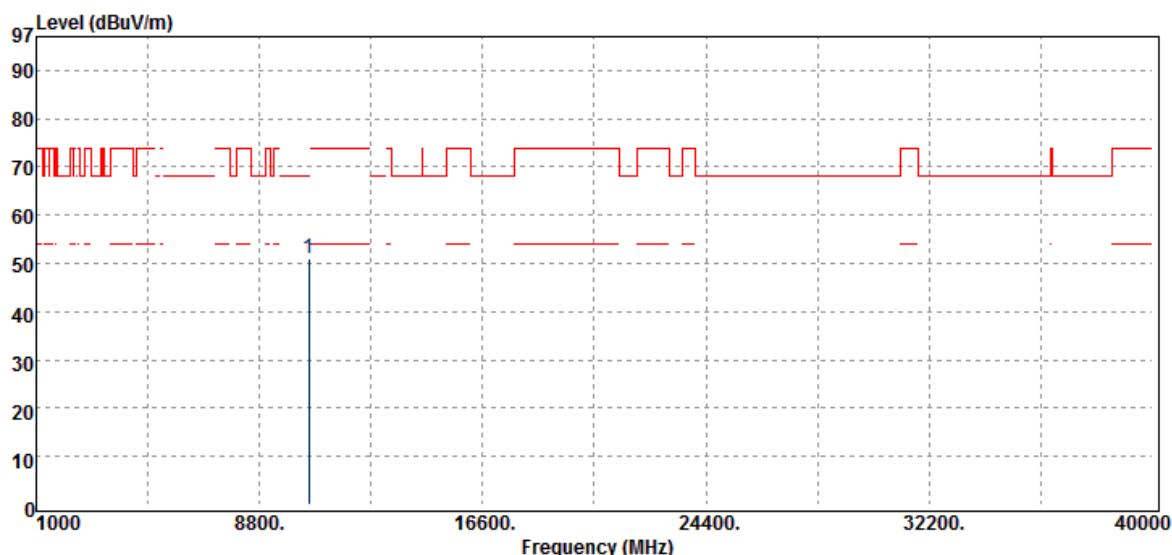
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Operation Band :802.11n20B2  
Fundamental Frequency :5260 MHz  
Operation Mode :Tx CH LOW  
EUT Pol. :E2 Plane

Test Date :2018-09-24  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Tin  
Measurement Antenna Pol. :HORIZONTAL



| Freq.    | Detector | Spectrum      | Factor | Actual       | Limit        | Margin |
|----------|----------|---------------|--------|--------------|--------------|--------|
| MHz      | Mode     | Reading Level |        | FS           | @3m          |        |
|          | PK/QP/AV | dB $\mu$ V    | dB     | dB $\mu$ V/m | dB $\mu$ V/m | dB     |
| 10520.00 | Peak     | 31.13         | 20.00  | 51.13        | 68.20        | -17.07 |

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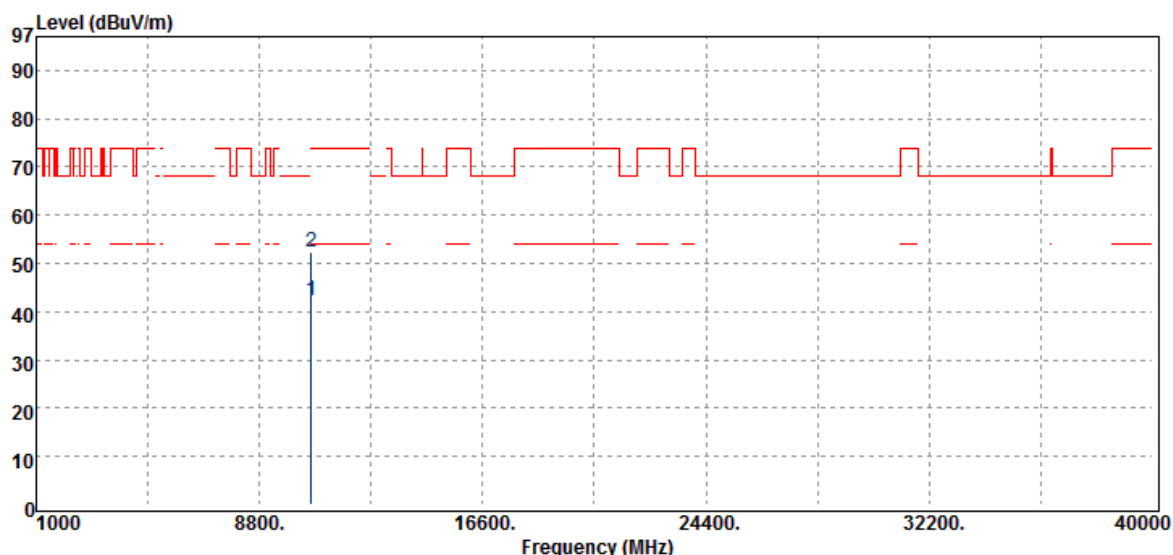
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Operation Band :802.11n20B2  
Fundamental Frequency :5300 MHz  
Operation Mode :Tx CH MID  
EUT Pol. :E2 Plane

Test Date :2018-09-24  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Tin  
Measurement Antenna Pol. :VERTICAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 10600.00     | Average                      | 22.07                             | 20.38        | 42.45                  | 54.00                  | -11.55       |
| 10600.00     | Peak                         | 32.05                             | 20.38        | 52.43                  | 74.00                  | -21.57       |

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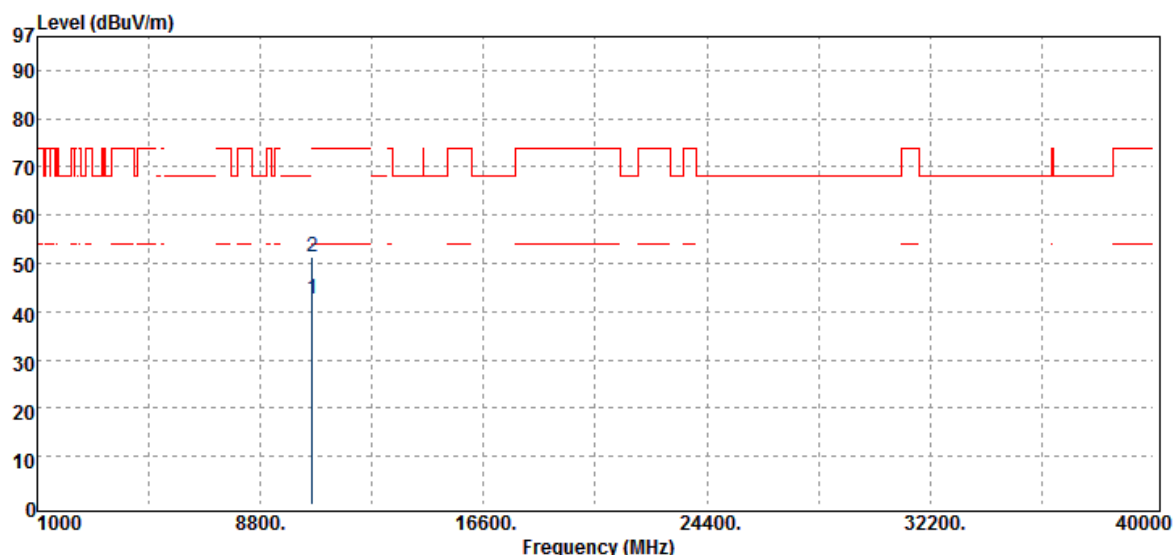
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Operation Band :802.11n20B2  
 Fundamental Frequency :5300 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :HORIZONTAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 10600.00     | Average                      | 22.18                                   | 20.38        | 42.56                        | 54.00                        | -11.44       |
| 10600.00     | Peak                         | 31.04                                   | 20.38        | 51.42                        | 74.00                        | -22.58       |

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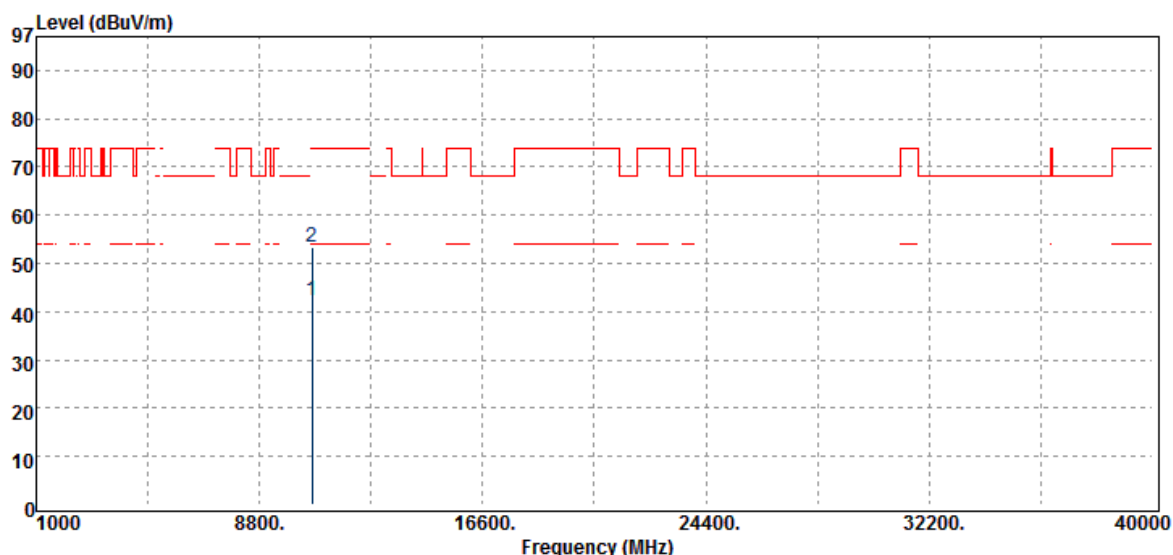
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Operation Band :802.11n20B2  
Fundamental Frequency :5320 MHz  
Operation Mode :Tx CH HIGH  
EUT Pol. :E2 Plane

Test Date :2018-09-24  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Tin  
Measurement Antenna Pol. :VERTICAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 10640.00     | Average                      | 21.97                             | 20.44        | 42.41                  | 54.00                  | -11.59       |
| 10640.00     | Peak                         | 32.93                             | 20.44        | 53.37                  | 74.00                  | -20.63       |

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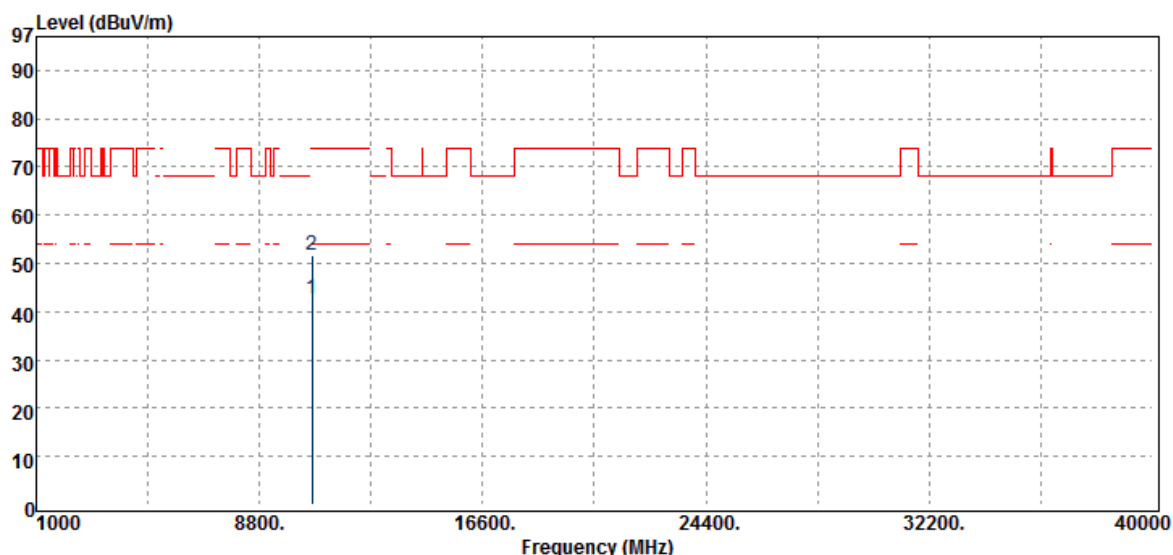
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Operation Band :802.11n20B2  
Fundamental Frequency :5320 MHz  
Operation Mode :Tx CH HIGH  
EUT Pol. :E2 Plane

Test Date :2018-09-24  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Tin  
Measurement Antenna Pol. :HORIZONTAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 10640.00     | Average                      | 22.12                                   | 20.44        | 42.56                        | 54.00                        | -11.44       |
| 10640.00     | Peak                         | 31.21                                   | 20.44        | 51.65                        | 74.00                        | -22.35       |

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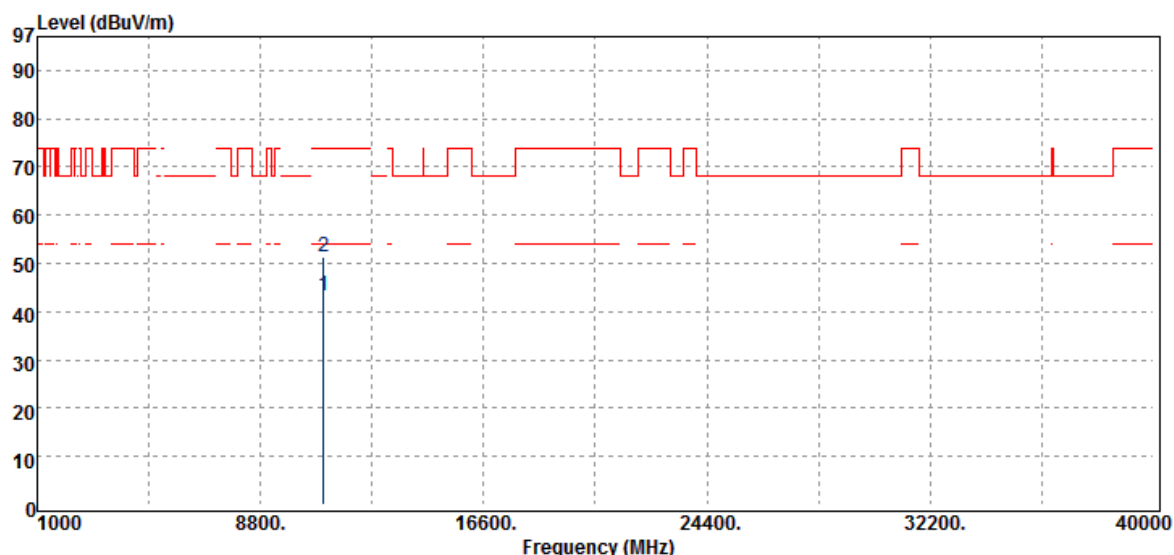
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## Radiated Spurious Emission Measurement Result 802.11n HT20, 5470~5725 MHz

|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11n20B3 | Test Date                | :2018-09-24       |
| Fundamental Frequency | :5500 MHz    | Temp./Humi.              | :23 deg_C / 62 RH |
| Operation Mode        | :Tx CH LOW   | Engineer                 | :Tin              |
| EUT Pol.              | :E2 Plane    | Measurement Antenna Pol. | :VERTICAL         |



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 11000.00     | Average                      | 22.04                             | 21.37        | 43.41                  | 54.00                  | -10.59       |
| 11000.00     | Peak                         | 29.95                             | 21.37        | 51.32                  | 74.00                  | -22.68       |

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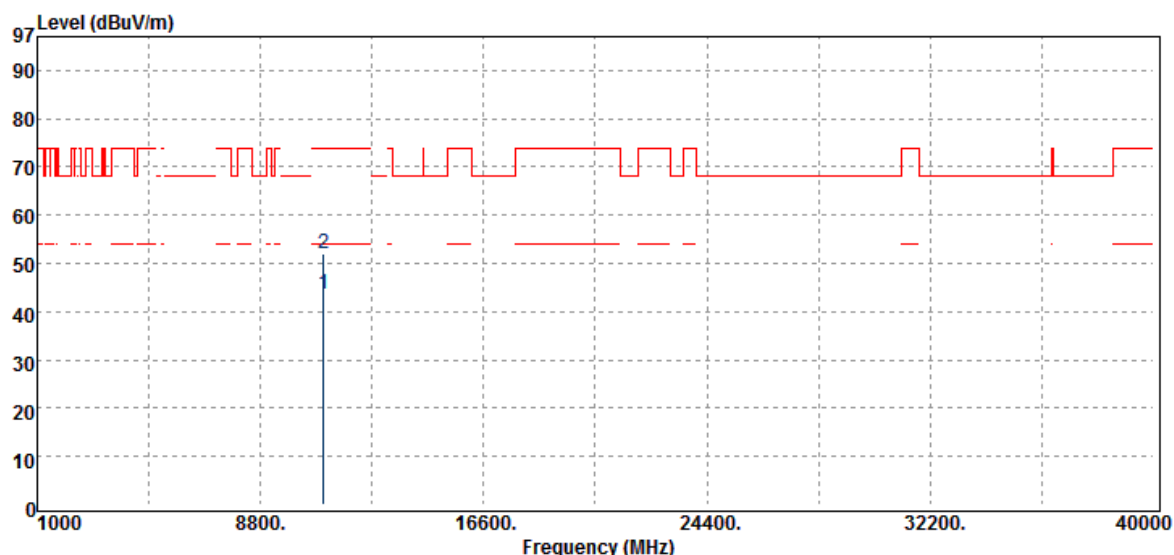
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Operation Band :802.11n20B3  
Fundamental Frequency :5500 MHz  
Operation Mode :Tx CH LOW  
EUT Pol. :E2 Plane

Test Date :2018-09-24  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Tin  
Measurement Antenna Pol. :HORIZONTAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 11000.00     | Average                      | 22.28                                   | 21.37        | 43.65                        | 54.00                        | -10.35       |
| 11000.00     | Peak                         | 30.74                                   | 21.37        | 52.11                        | 74.00                        | -21.89       |

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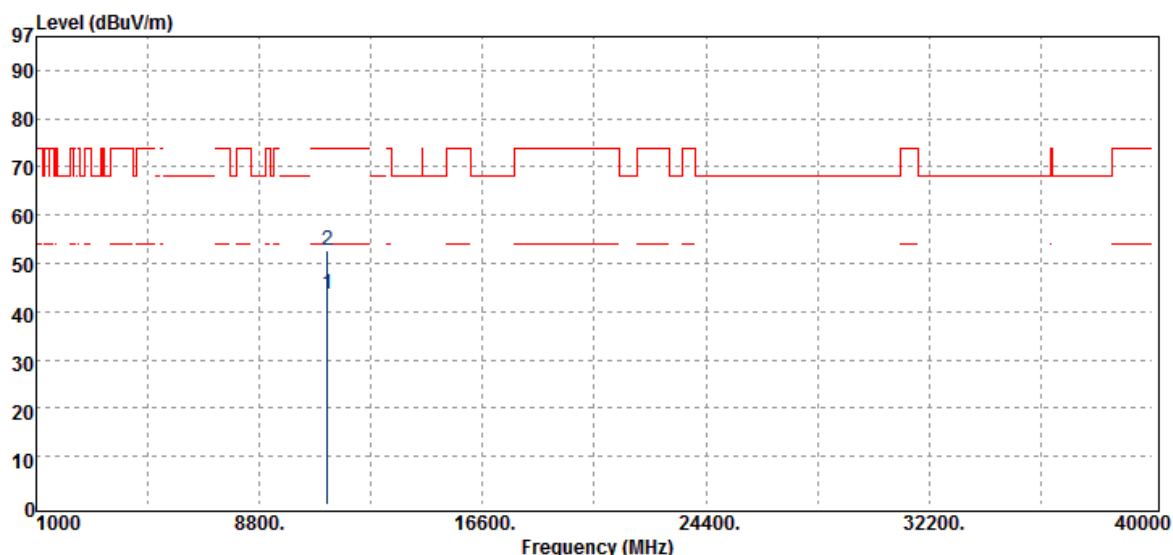
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Operation Band :802.11n20B3  
Fundamental Frequency :5580 MHz  
Operation Mode :Tx CH MID  
EUT Pol. :E2 Plane

Test Date :2018-09-24  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Tin  
Measurement Antenna Pol. :VERTICAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 11160.00     | Average                      | 22.12                             | 21.51        | 43.63                  | 54.00                  | -10.37       |
| 11160.00     | Peak                         | 31.28                             | 21.51        | 52.79                  | 74.00                  | -21.21       |

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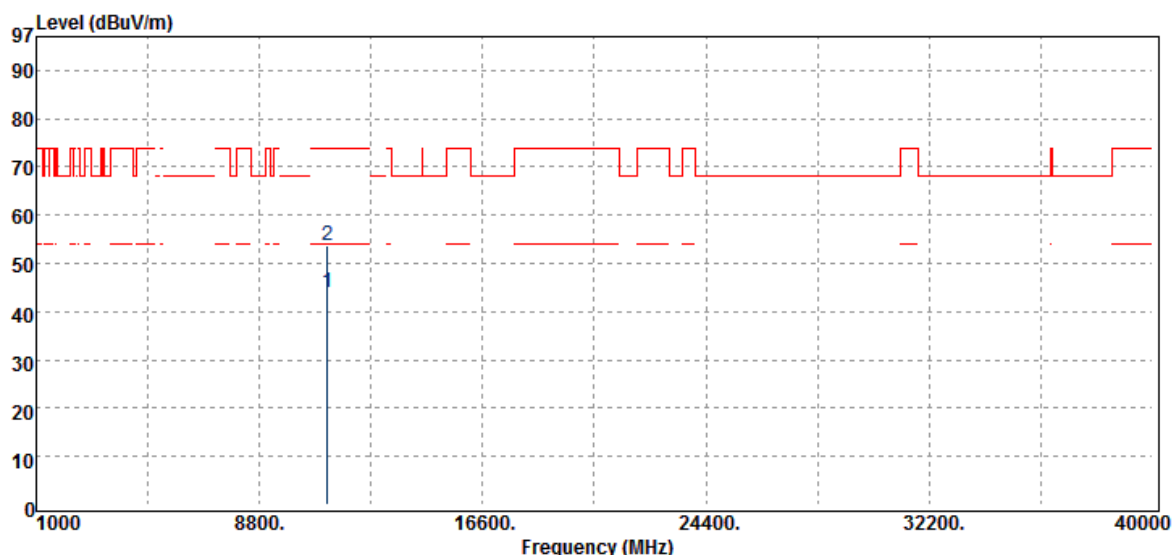
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Operation Band :802.11n20B3  
Fundamental Frequency :5580 MHz  
Operation Mode :Tx CH MID  
EUT Pol. :E2 Plane

Test Date :2018-09-24  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Tin  
Measurement Antenna Pol. :HORIZONTAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 11160.00     | Average                      | 22.32                                   | 21.51        | 43.83                        | 54.00                        | -10.17       |
| 11160.00     | Peak                         | 32.10                                   | 21.51        | 53.61                        | 74.00                        | -20.39       |

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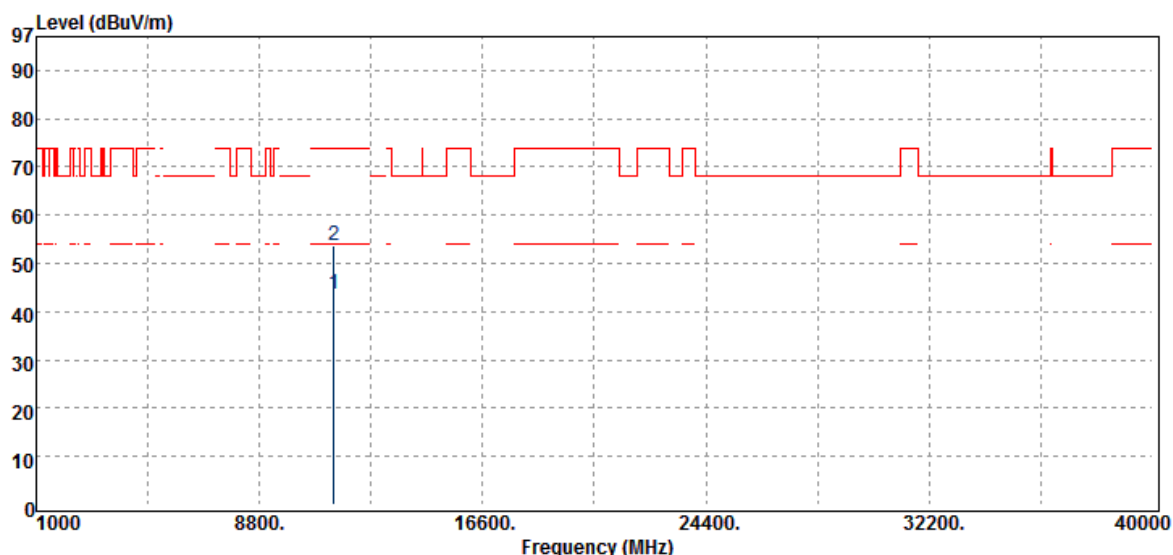
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Operation Band :802.11n20B3  
Fundamental Frequency :5700 MHz  
Operation Mode :Tx CH HIGH  
EUT Pol. :E2 Plane

Test Date :2018-09-24  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Tin  
Measurement Antenna Pol. :VERTICAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 11400.00     | Average                      | 21.88                                   | 21.62        | 43.50                        | 54.00                        | -10.50       |
| 11400.00     | Peak                         | 32.24                                   | 21.62        | 53.86                        | 74.00                        | -20.14       |

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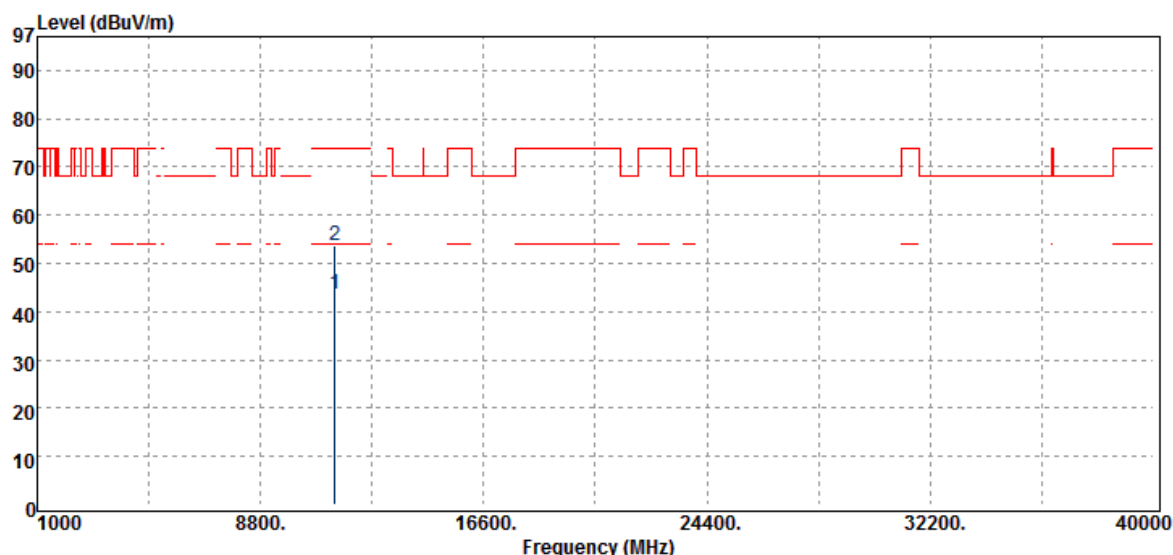
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Operation Band :802.11n20B3  
Fundamental Frequency :5700 MHz  
Operation Mode :Tx CH HIGH  
EUT Pol. :E2 Plane

Test Date :2018-09-24  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Tin  
Measurement Antenna Pol. :HORIZONTAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 11400.00     | Average                      | 22.18                                   | 21.62        | 43.80                        | 54.00                        | -10.20       |
| 11400.00     | Peak                         | 31.96                                   | 21.62        | 53.58                        | 74.00                        | -20.42       |

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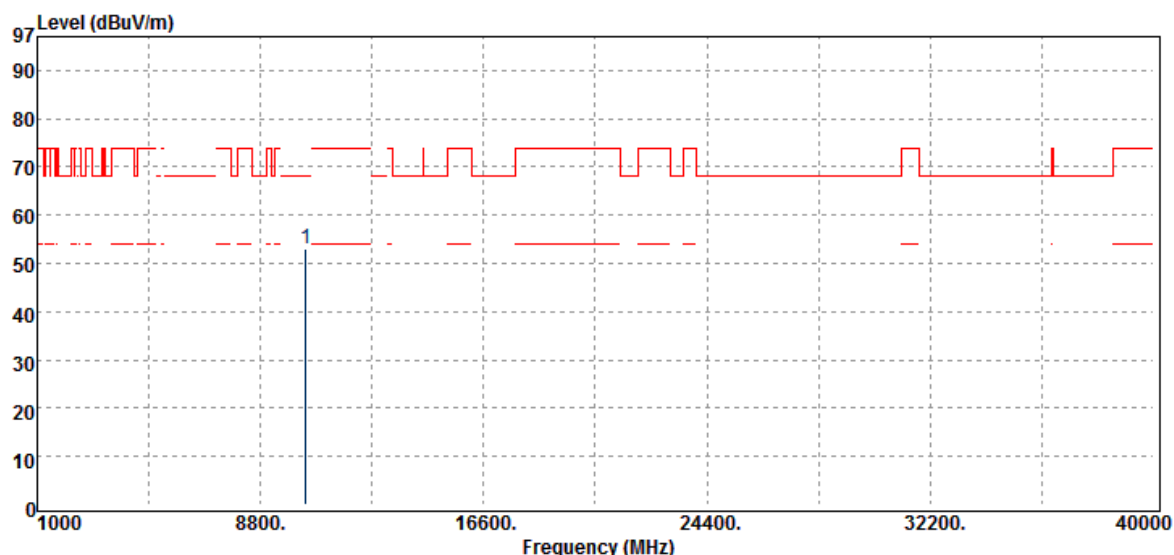
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## Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz

|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11n40B1 | Test Date                | :2018-09-24       |
| Fundamental Frequency | :5190 MHz    | Temp./Humi.              | :23 deg_C / 62 RH |
| Operation Mode        | :Tx CH LOW   | Engineer                 | :Tin              |
| EUT Pol.              | :E2 Plane    | Measurement Antenna Pol. | :VERTICAL         |



| Freq.    | Detector | Spectrum      | Factor | Actual       | Limit        | Margin |
|----------|----------|---------------|--------|--------------|--------------|--------|
| MHz      | Mode     | Reading Level |        | FS           | @3m          |        |
|          | PK/QP/AV | dB $\mu$ V    | dB     | dB $\mu$ V/m | dB $\mu$ V/m | dB     |
| 10380.00 | Peak     | 33.28         | 19.78  | 53.06        | 68.20        | -15.14 |

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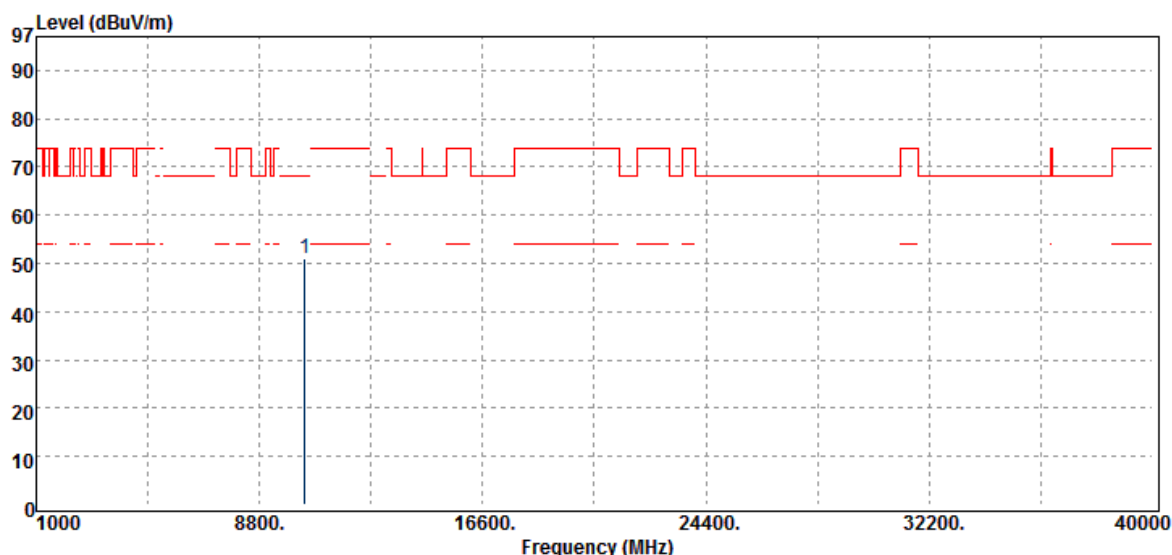
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Operation Band :802.11n40B1  
Fundamental Frequency :5190 MHz  
Operation Mode :Tx CH LOW  
EUT Pol. :E2 Plane

Test Date :2018-09-24  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Tin  
Measurement Antenna Pol. :HORIZONTAL



| Freq.    | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|----------|----------|---------------|--------|--------|--------|--------|
| MHz      | Mode     | Reading Level |        | FS     | @3m    |        |
|          | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 10380.00 | Peak     | 31.08         | 19.78  | 50.86  | 68.20  | -17.34 |

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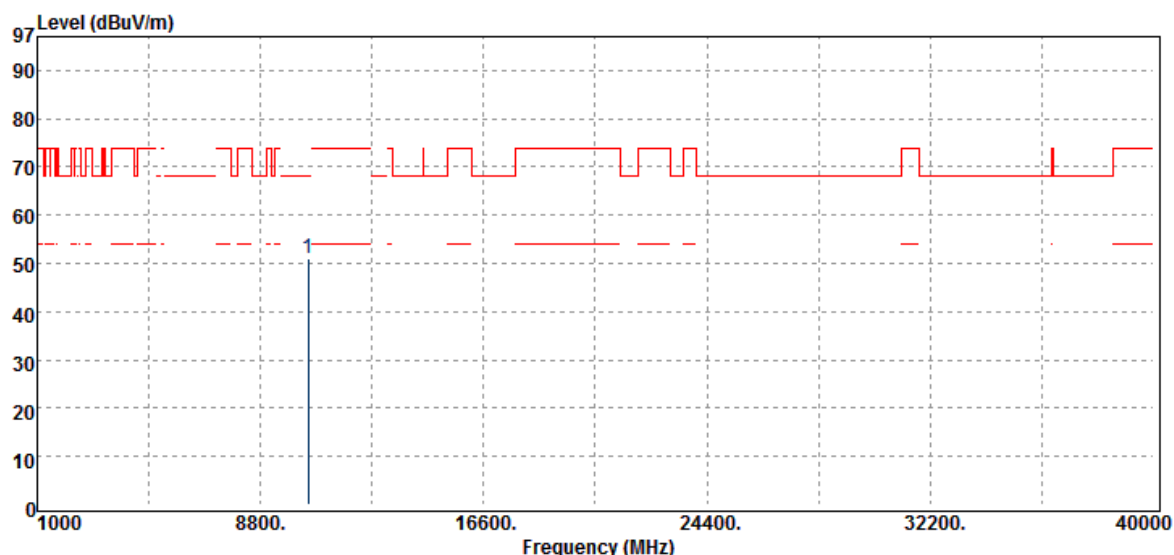
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Operation Band :802.11n40B1  
Fundamental Frequency :5230 MHz  
Operation Mode :Tx CH HIGH  
EUT Pol. :E2 Plane

Test Date :2018-09-24  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Tin  
Measurement Antenna Pol. :VERTICAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 10460.00     | Peak                         | 31.03                             | 20.07        | 51.10                  | 68.20                  | -17.10       |

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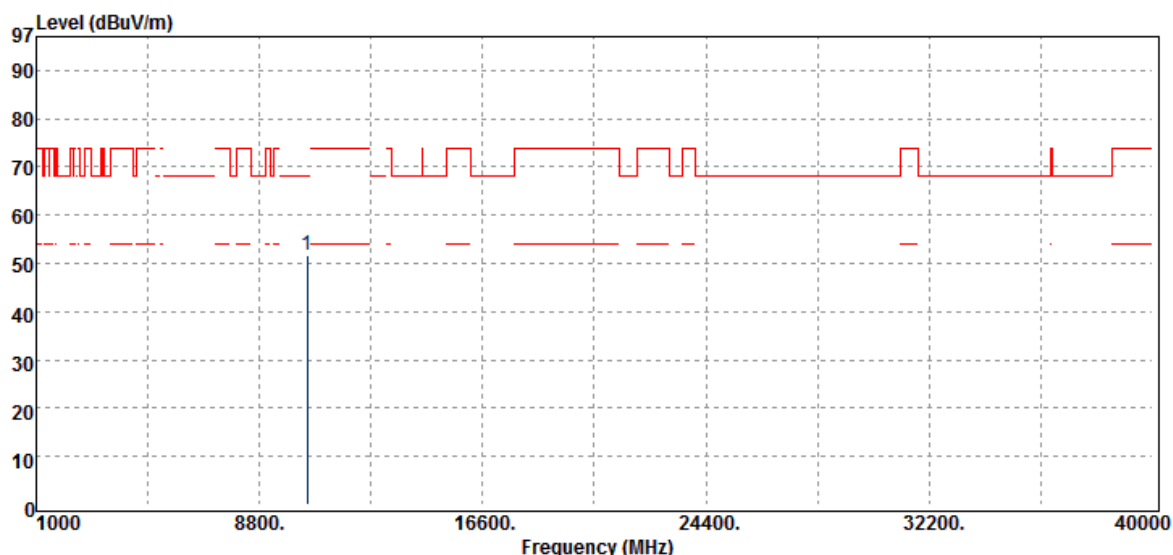
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Operation Band :802.11n40B1  
Fundamental Frequency :5230 MHz  
Operation Mode :Tx CH HIGH  
EUT Pol. :E2 Plane

Test Date :2018-09-24  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Tin  
Measurement Antenna Pol. :HORIZONTAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 10460.00     | Peak                         | 31.52                             | 20.07        | 51.59                  | 68.20                  | -16.61       |

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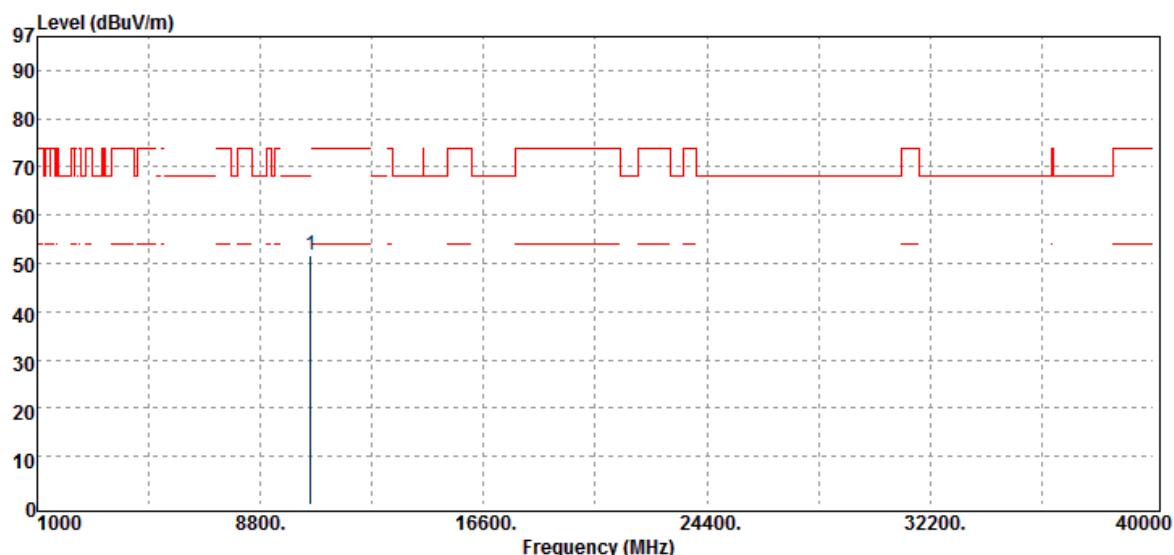
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## Radiated Spurious Emission Measurement Result 802.11n HT40, 5250~5350 MHz

|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11n40B2 | Test Date                | :2018-09-24       |
| Fundamental Frequency | :5270 MHz    | Temp./Humi.              | :23 deg_C / 62 RH |
| Operation Mode        | :Tx CH LOW   | Engineer                 | :Tin              |
| EUT Pol.              | :E2 Plane    | Measurement Antenna Pol. | :VERTICAL         |



| Freq.    | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|----------|----------|---------------|--------|--------|--------|--------|
| MHz      | Mode     | Reading Level |        | FS     | @3m    |        |
|          | PK/QP/AV | dBuV          | dB     | dBuV/m | dBuV/m | dB     |
| 10540.00 | Peak     | 31.66         | 20.02  | 51.68  | 68.20  | -16.52 |

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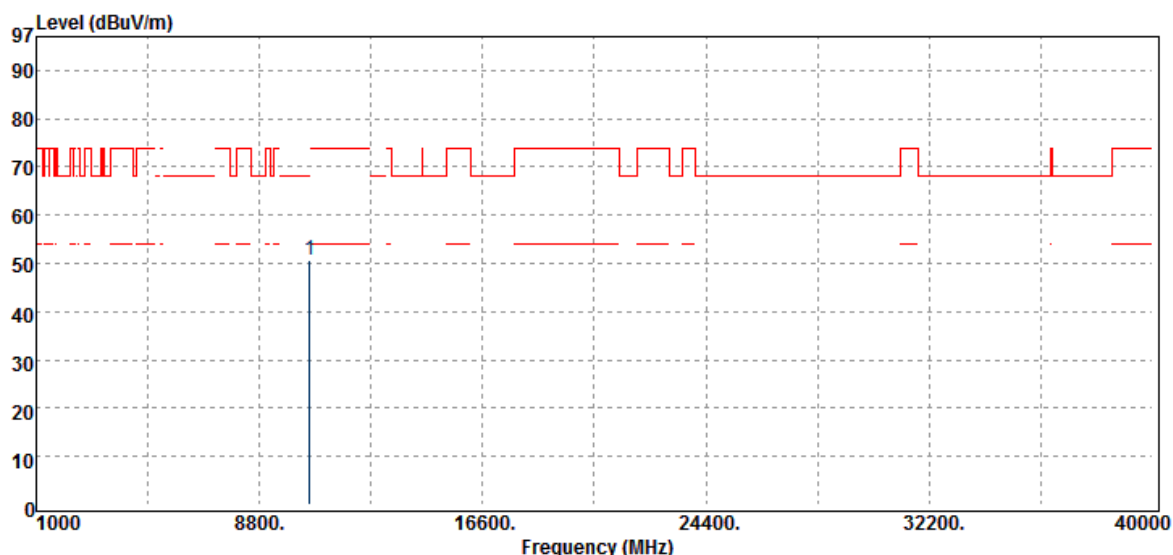
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Operation Band :802.11n40B2  
 Fundamental Frequency :5270 MHz  
 Operation Mode :Tx CH LOW  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :HORIZONTAL



| Freq.    | Detector | Spectrum      | Factor | Actual       | Limit        | Margin |
|----------|----------|---------------|--------|--------------|--------------|--------|
| MHz      | Mode     | Reading Level |        | FS           | @3m          |        |
|          | PK/QP/AV | dB $\mu$ V    | dB     | dB $\mu$ V/m | dB $\mu$ V/m | dB     |
| 10540.00 | Peak     | 30.63         | 20.02  | 50.65        | 68.20        | -17.55 |

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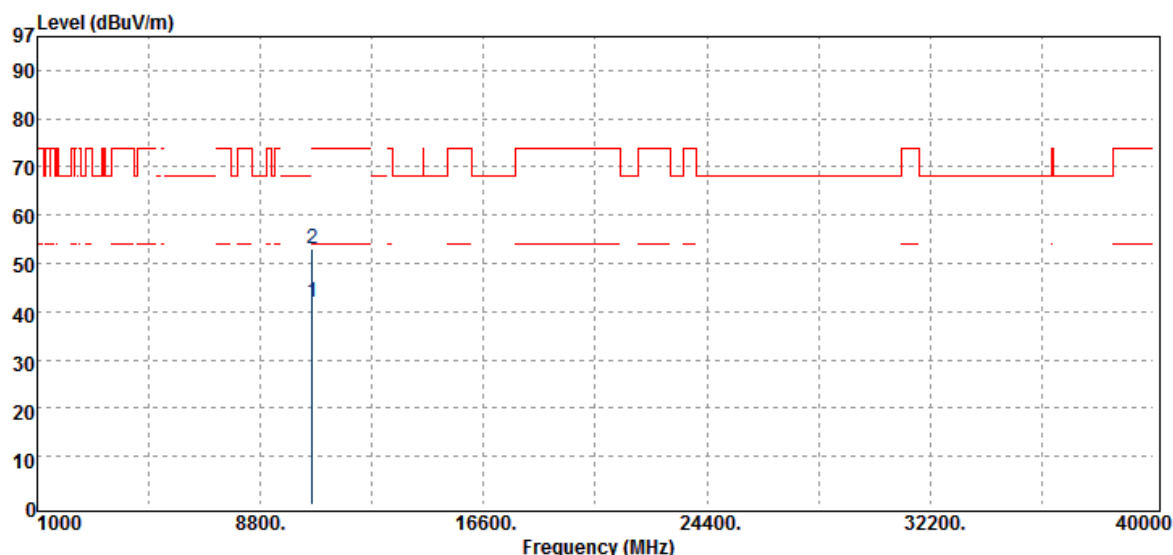
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Operation Band :802.11n40B2  
 Fundamental Frequency :5310 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :VERTICAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 10620.00     | Average                      | 21.55                             | 20.41        | 41.96                  | 54.00                  | -12.04       |
| 10620.00     | Peak                         | 32.46                             | 20.41        | 52.87                  | 74.00                  | -21.13       |

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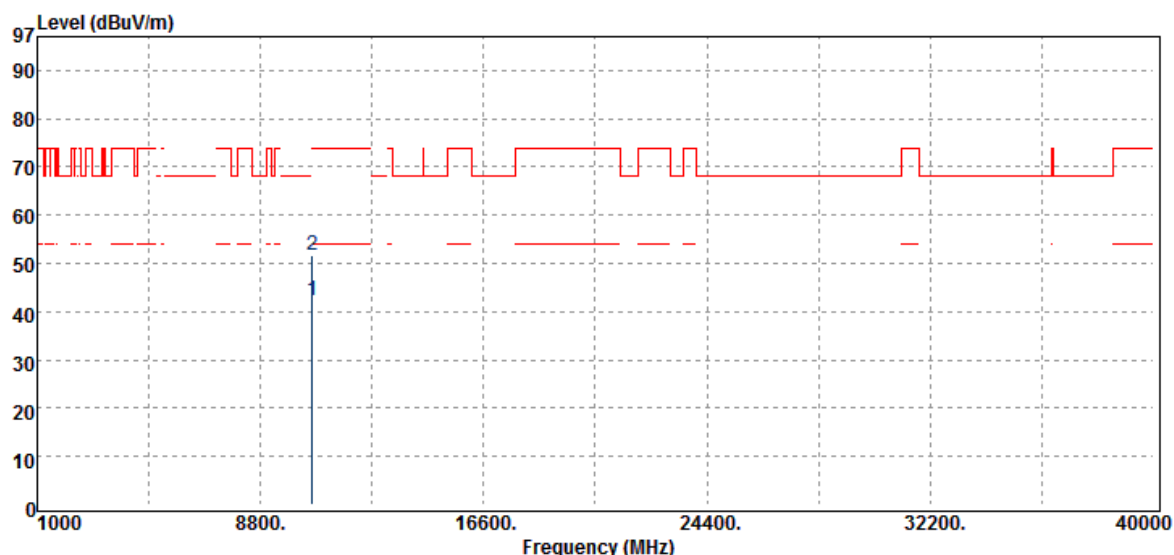
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Operation Band :802.11n40B2  
 Fundamental Frequency :5310 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :HORIZONTAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 10620.00     | Average                      | 21.85                                   | 20.41        | 42.26                        | 54.00                        | -11.74       |
| 10620.00     | Peak                         | 31.40                                   | 20.41        | 51.81                        | 74.00                        | -22.19       |

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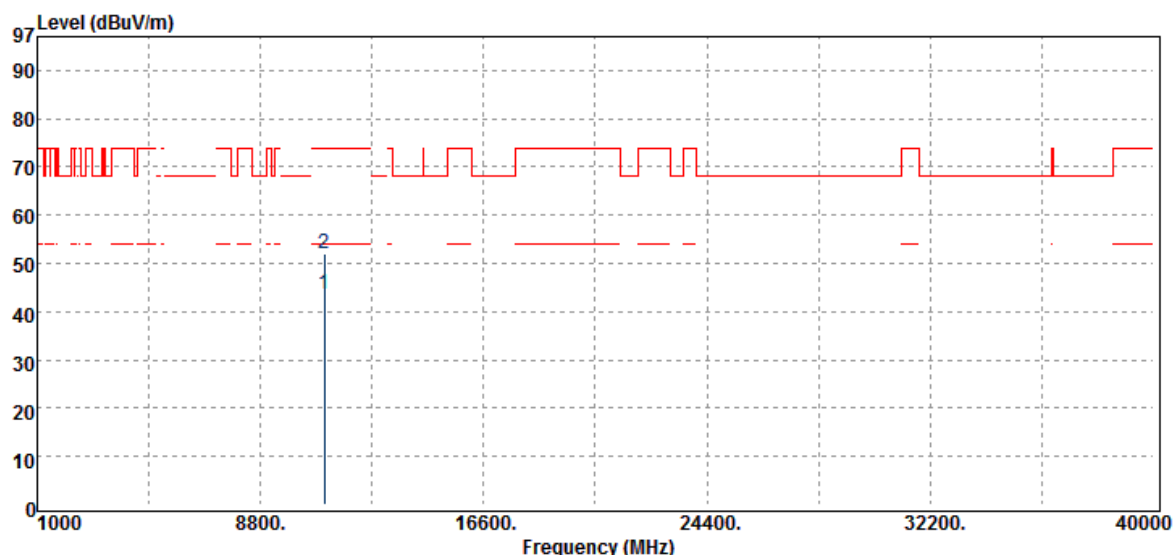
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## Radiated Spurious Emission Measurement Result 802.11n HT40, 5470~5725 MHz

|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11n40B3 | Test Date                | :2018-09-24       |
| Fundamental Frequency | :5510 MHz    | Temp./Humi.              | :23 deg_C / 62 RH |
| Operation Mode        | :Tx CH LOW   | Engineer                 | :Tin              |
| EUT Pol.              | :E2 Plane    | Measurement Antenna Pol. | :VERTICAL         |



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 11020.00     | Average                      | 22.04                             | 21.46        | 43.50                  | 54.00                  | -10.50       |
| 11020.00     | Peak                         | 30.45                             | 21.46        | 51.91                  | 74.00                  | -22.09       |

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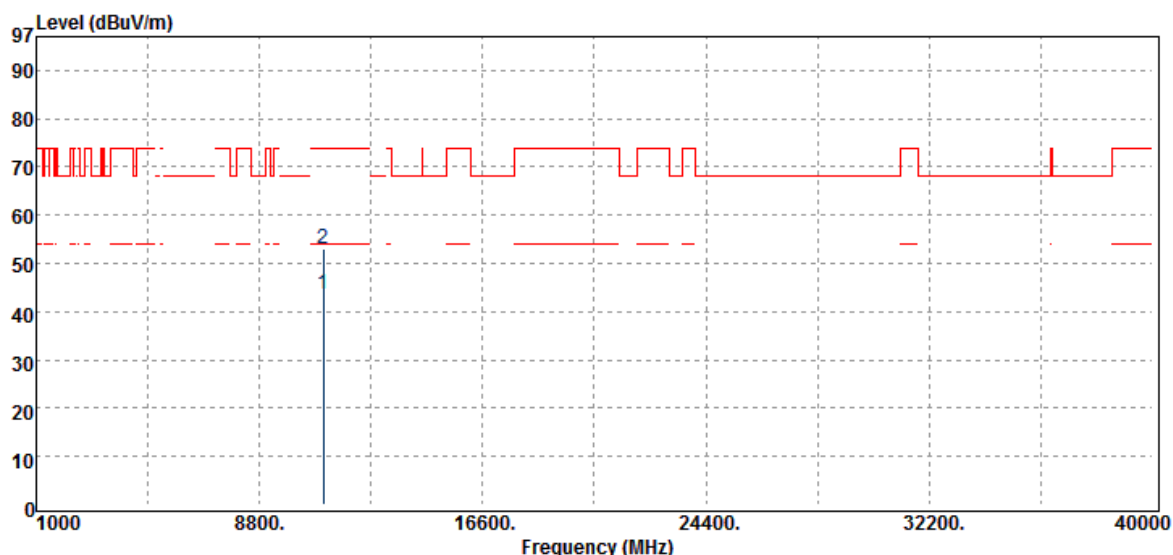
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Operation Band :802.11n40B3  
 Fundamental Frequency :5510 MHz  
 Operation Mode :Tx CH LOW  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :HORIZONTAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 11020.00     | Average                      | 22.13                                   | 21.46        | 43.59                        | 54.00                        | -10.41       |
| 11020.00     | Peak                         | 31.74                                   | 21.46        | 53.20                        | 74.00                        | -20.80       |

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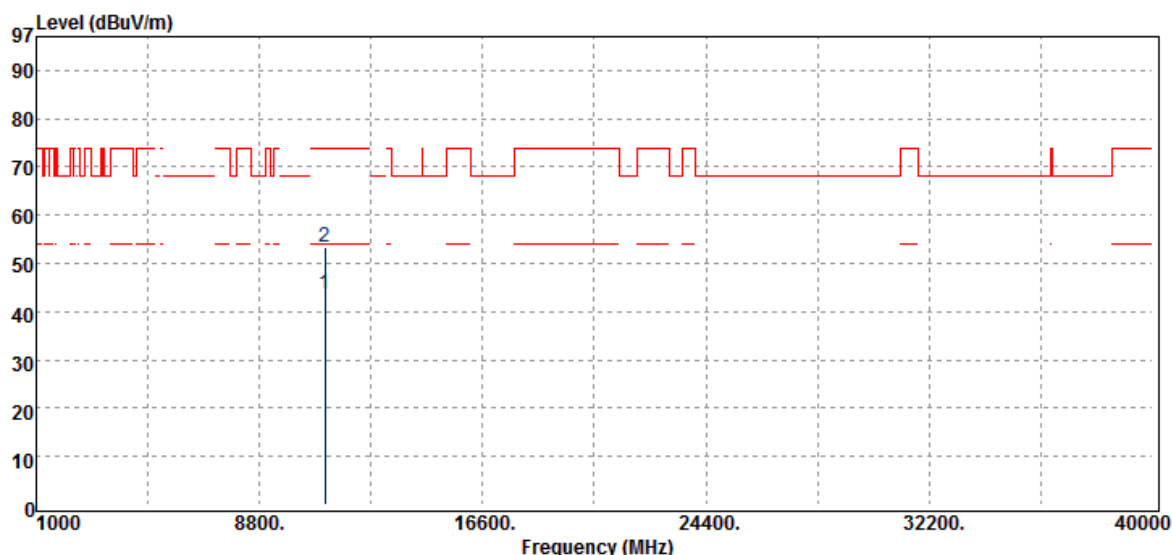
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Operation Band :802.11n40B3  
Fundamental Frequency :5550 MHz  
Operation Mode :Tx CH MID  
EUT Pol. :E2 Plane

Test Date :2018-09-24  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Tin  
Measurement Antenna Pol. :VERTICAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 11100.00     | Average                      | 22.10                             | 21.53        | 43.63                  | 54.00                  | -10.37       |
| 11100.00     | Peak                         | 31.89                             | 21.53        | 53.42                  | 74.00                  | -20.58       |

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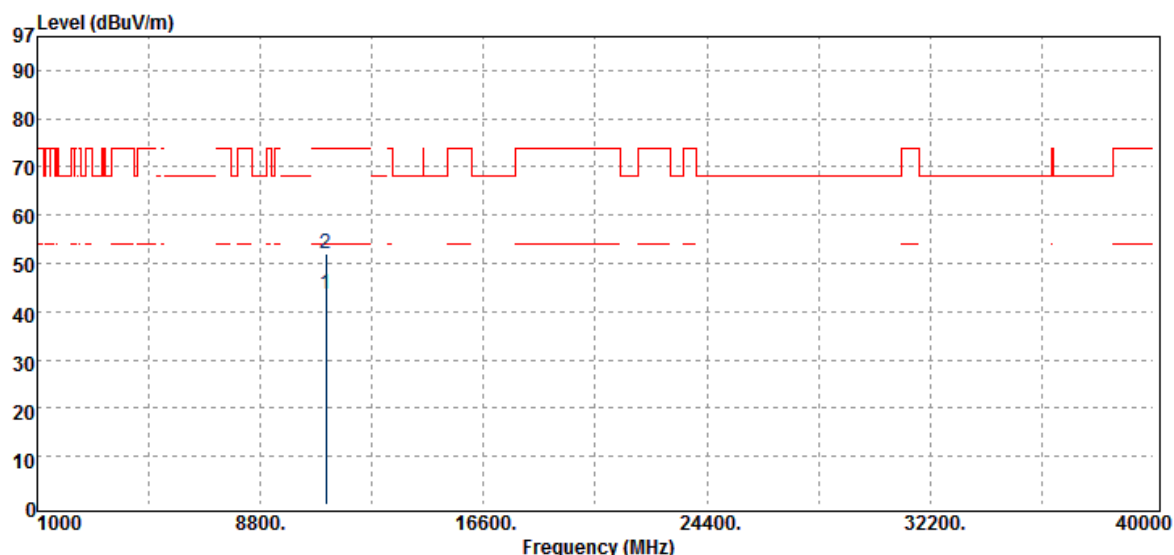
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Operation Band :802.11n40B3  
Fundamental Frequency :5550 MHz  
Operation Mode :Tx CH MID  
EUT Pol. :E2 Plane

Test Date :2018-09-24  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Tin  
Measurement Antenna Pol. :HORIZONTAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 11100.00     | Average                      | 22.21                             | 21.53        | 43.74                  | 54.00                  | -10.26       |
| 11100.00     | Peak                         | 30.47                             | 21.53        | 52.00                  | 74.00                  | -22.00       |

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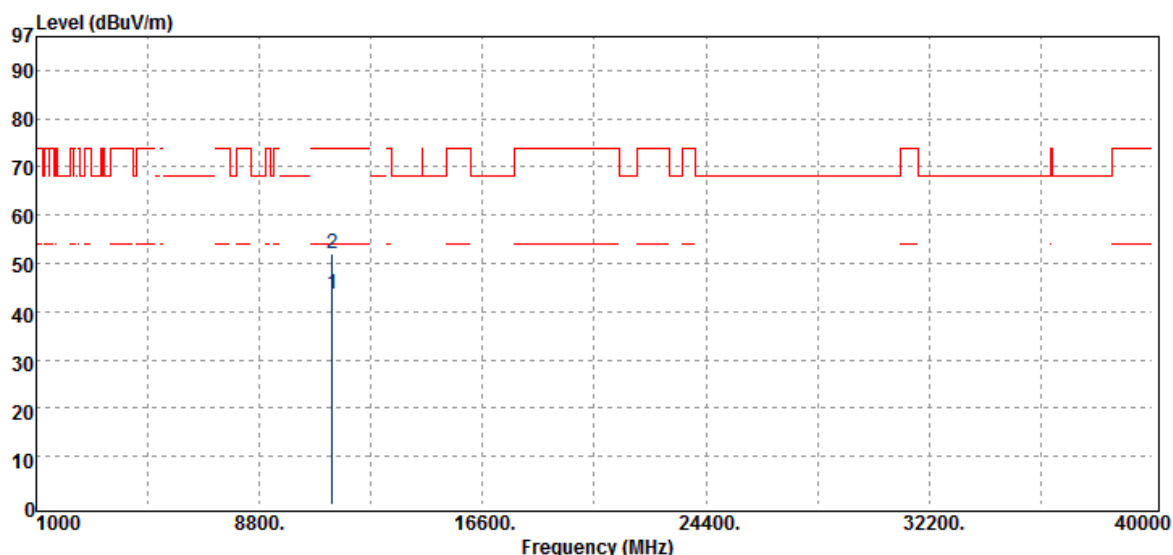
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Operation Band :802.11n40B3  
Fundamental Frequency :5670 MHz  
Operation Mode :Tx CH HIGH  
EUT Pol. :E2 Plane

Test Date :2018-09-24  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Tin  
Measurement Antenna Pol. :VERTICAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 11340.00     | Average                      | 22.17                                   | 21.54        | 43.71                        | 54.00                        | -10.29       |
| 11340.00     | Peak                         | 30.62                                   | 21.54        | 52.16                        | 74.00                        | -21.84       |

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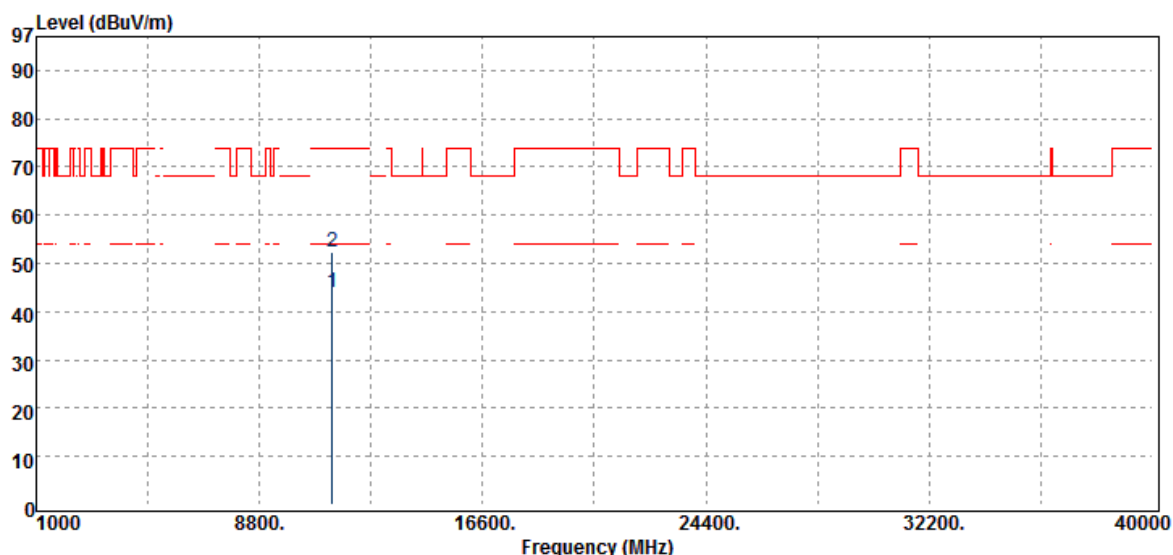
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Operation Band :802.11n40B3  
Fundamental Frequency :5670 MHz  
Operation Mode :Tx CH HIGH  
EUT Pol. :E2 Plane

Test Date :2018-09-24  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Tin  
Measurement Antenna Pol. :HORIZONTAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 11340.00     | Average                      | 22.34                                   | 21.54        | 43.88                        | 54.00                        | -10.12       |
| 11340.00     | Peak                         | 30.69                                   | 21.54        | 52.23                        | 74.00                        | -21.77       |

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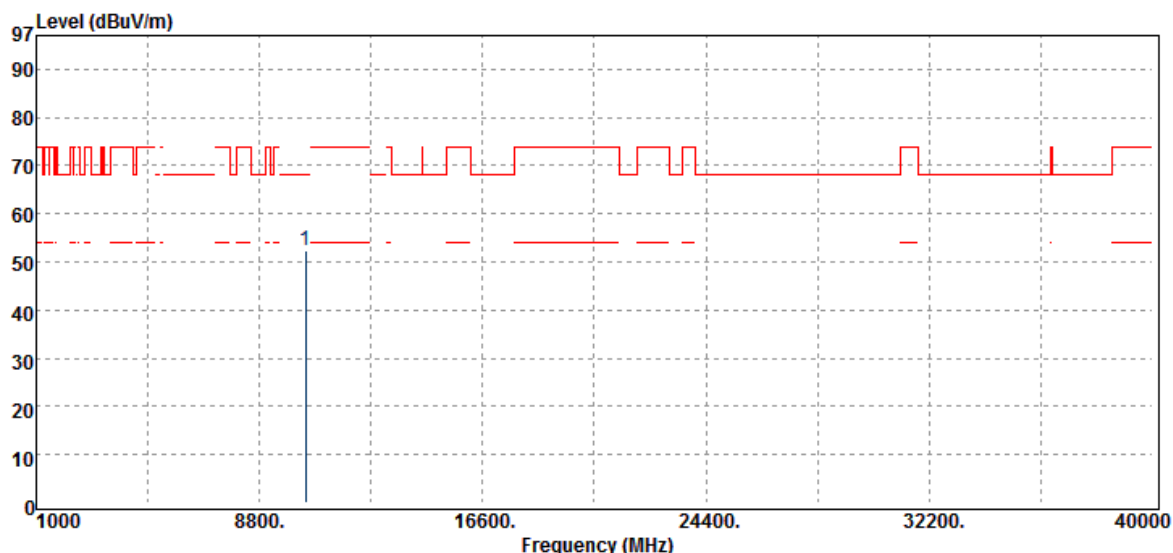
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## Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5150~5250 MHz

|                       |               |                          |                   |
|-----------------------|---------------|--------------------------|-------------------|
| Operation Band        | :802.11ac80B1 | Test Date                | :2018-09-24       |
| Fundamental Frequency | :5210 MHz     | Temp./Humi.              | :23 deg_C / 62 RH |
| Operation Mode        | :Tx CH LOW    | Engineer                 | :Tin              |
| EUT Pol.              | :E2 Plane     | Measurement Antenna Pol. | :VERTICAL         |



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 10420.00     | Peak                         | 32.52                             | 19.99        | 52.51                  | 68.20                  | -15.69       |

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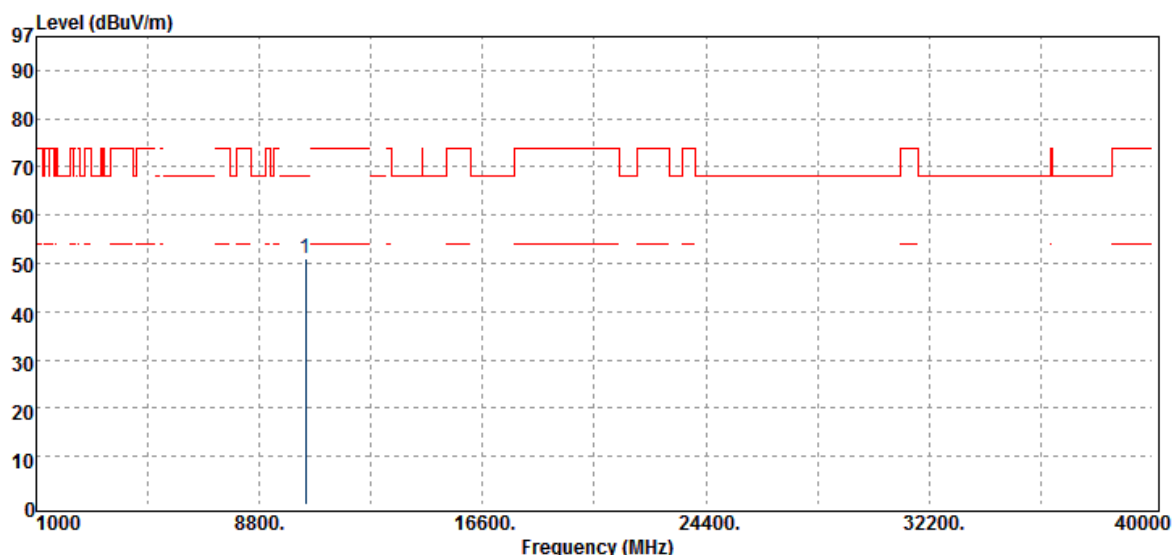
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Operation Band :802.11ac80B1  
 Fundamental Frequency :5210 MHz  
 Operation Mode :Tx CH LOW  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :HORIZONTAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 10420.00     | Peak                         | 30.91                                   | 19.99        | 50.90                        | 68.20                        | -17.30       |

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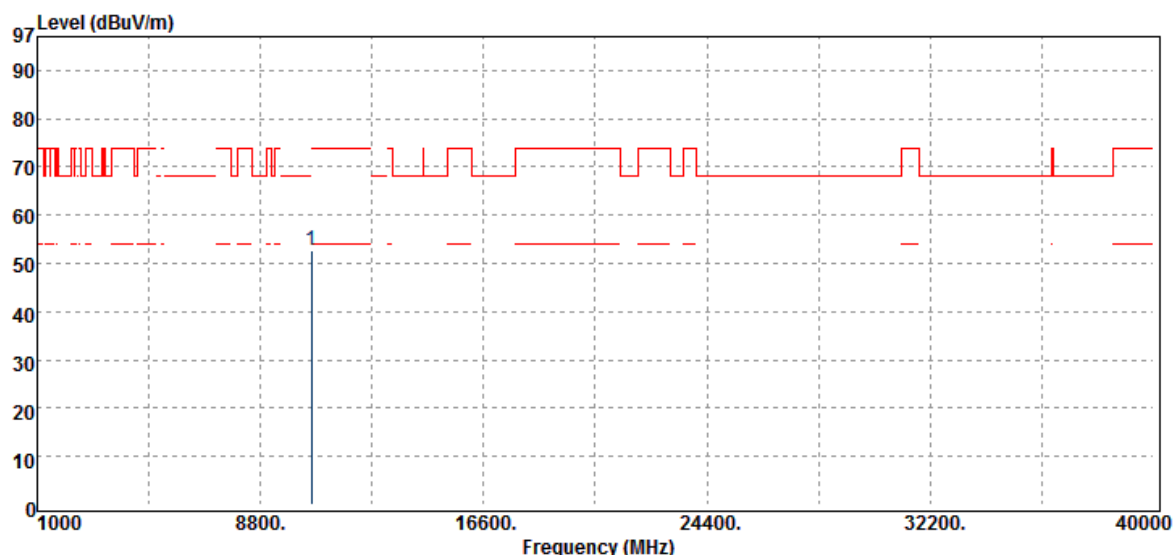
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## Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5250~5350 MHz

|                       |               |                          |                   |
|-----------------------|---------------|--------------------------|-------------------|
| Operation Band        | :802.11ac80B2 | Test Date                | :2018-09-24       |
| Fundamental Frequency | :5290 MHz     | Temp./Humi.              | :23 deg_C / 62 RH |
| Operation Mode        | :Tx CH HIGH   | Engineer                 | :Tin              |
| EUT Pol.              | :E2 Plane     | Measurement Antenna Pol. | :VERTICAL         |



| Freq.    | Detector | Spectrum      | Factor | Actual       | Limit        | Margin |
|----------|----------|---------------|--------|--------------|--------------|--------|
| MHz      | Mode     | Reading Level |        | FS           | @3m          |        |
|          | PK/QP/AV | dB $\mu$ V    | dB     | dB $\mu$ V/m | dB $\mu$ V/m | dB     |
| 10580.00 | Peak     | 32.61         | 20.23  | 52.84        | 68.20        | -15.36 |

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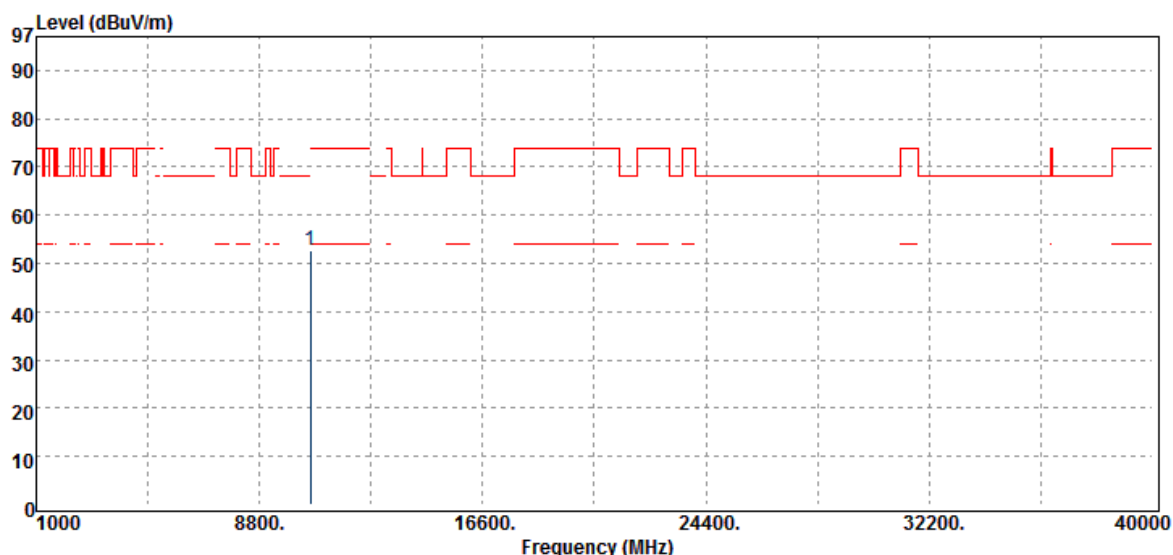
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Operation Band :802.11ac80B2  
Fundamental Frequency :5290 MHz  
Operation Mode :Tx CH HIGH  
EUT Pol. :E2 Plane

Test Date :2018-09-24  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Tin  
Measurement Antenna Pol. :HORIZONTAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 10580.00     | Peak                         | 32.54                                   | 20.23        | 52.77                        | 68.20                        | -15.43       |

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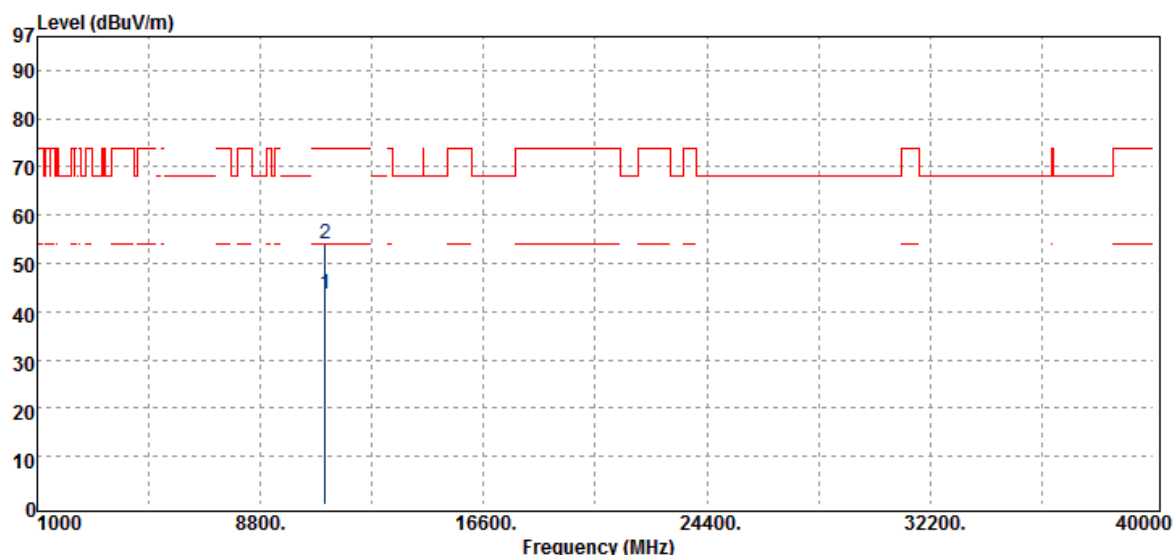
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## Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5470~5725 MHz

Operation Band :802.11ac80B3  
Fundamental Frequency :5530 MHz  
Operation Mode :Tx CH LOW  
EUT Pol. :E2 Plane

Test Date :2018-09-24  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Tin  
Measurement Antenna Pol. :VERTICAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 11060.00     | Average                      | 22.07                             | 21.53        | 43.60                  | 54.00                  | -10.40       |
| 11060.00     | Peak                         | 32.51                             | 21.53        | 54.04                  | 74.00                  | -19.96       |

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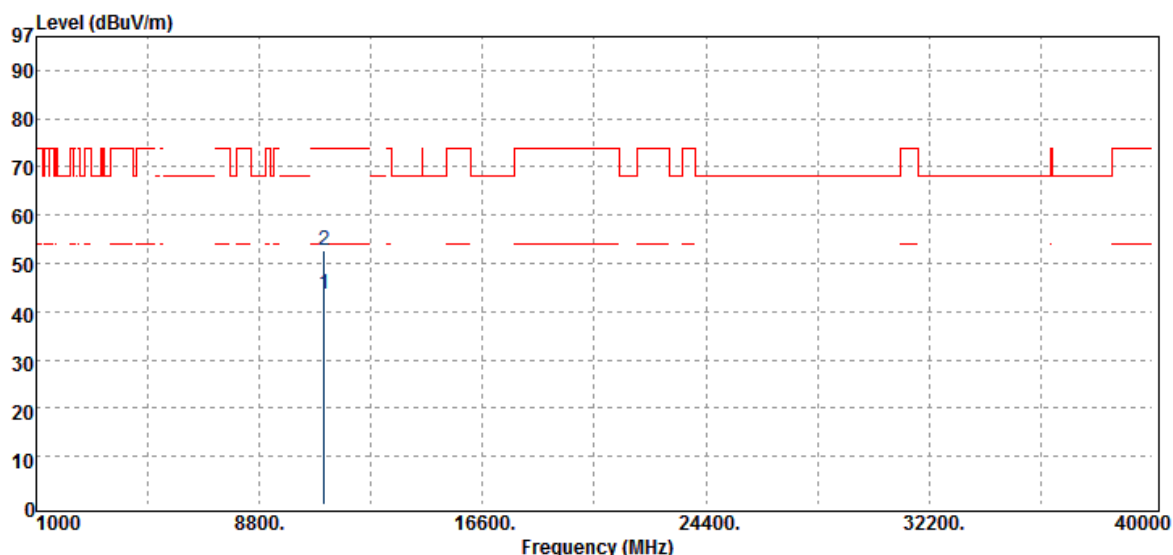
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Operation Band :802.11ac80B3  
Fundamental Frequency :5530 MHz  
Operation Mode :Tx CH LOW  
EUT Pol. :E2 Plane

Test Date :2018-09-24  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Tin  
Measurement Antenna Pol. :HORIZONTAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 11060.00     | Average                      | 22.19                                   | 21.53        | 43.72                        | 54.00                        | -10.28       |
| 11060.00     | Peak                         | 31.07                                   | 21.53        | 52.60                        | 74.00                        | -21.40       |

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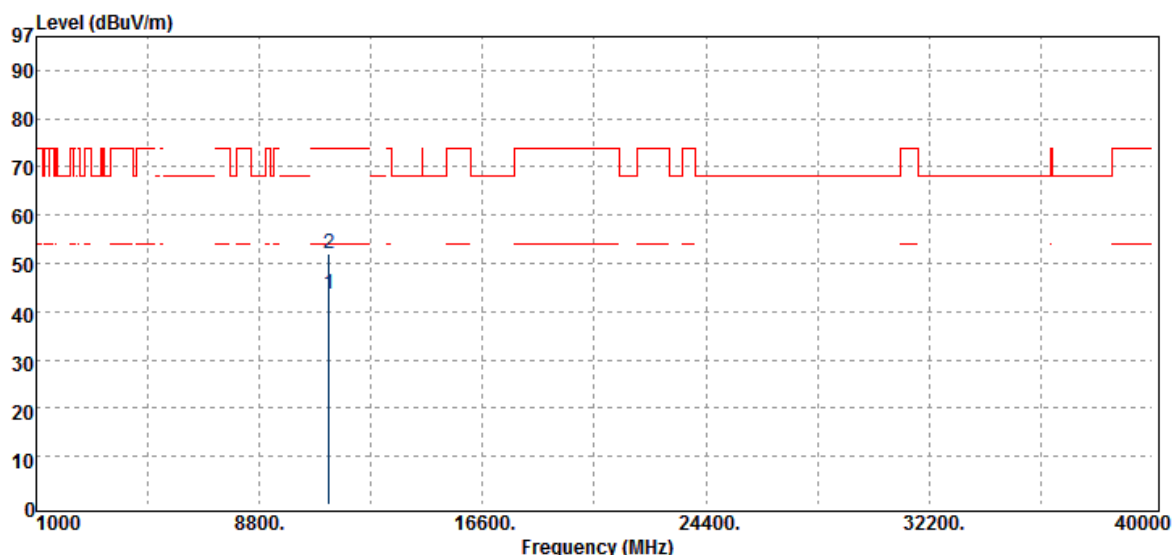
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Operation Band :802.11ac80B3  
 Fundamental Frequency :5610 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :VERTICAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 11220.00     | Average                      | 22.22                             | 21.56        | 43.78                  | 54.00                  | -10.22       |
| 11220.00     | Peak                         | 30.59                             | 21.56        | 52.15                  | 74.00                  | -21.85       |

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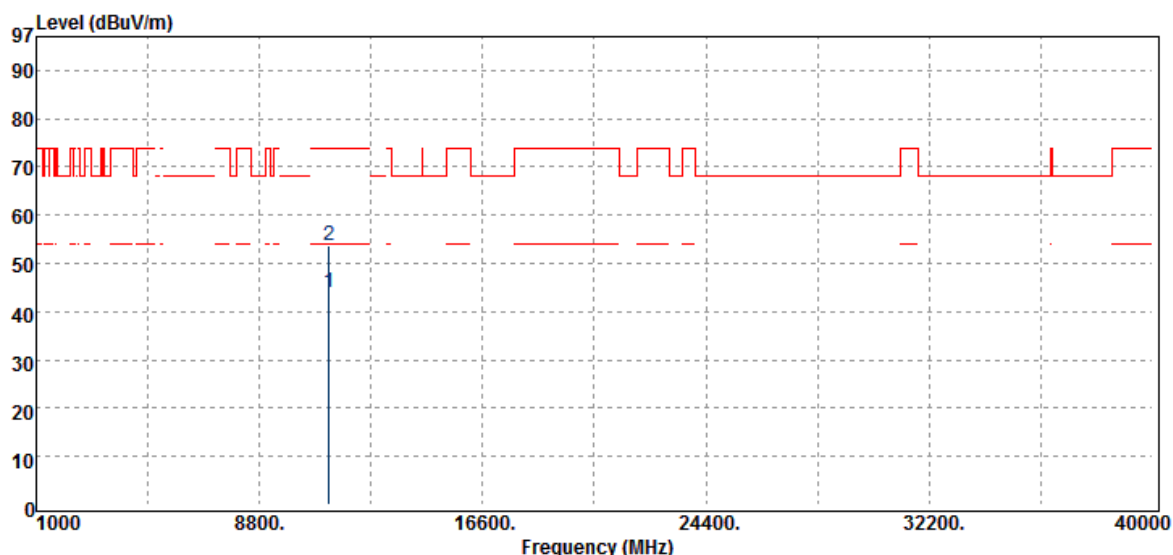
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Operation Band :802.11ac80B3  
 Fundamental Frequency :5610 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :HORIZONTAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 11220.00     | Average                      | 22.37                                   | 21.56        | 43.93                        | 54.00                        | -10.07       |
| 11220.00     | Peak                         | 32.26                                   | 21.56        | 53.82                        | 74.00                        | -20.18       |

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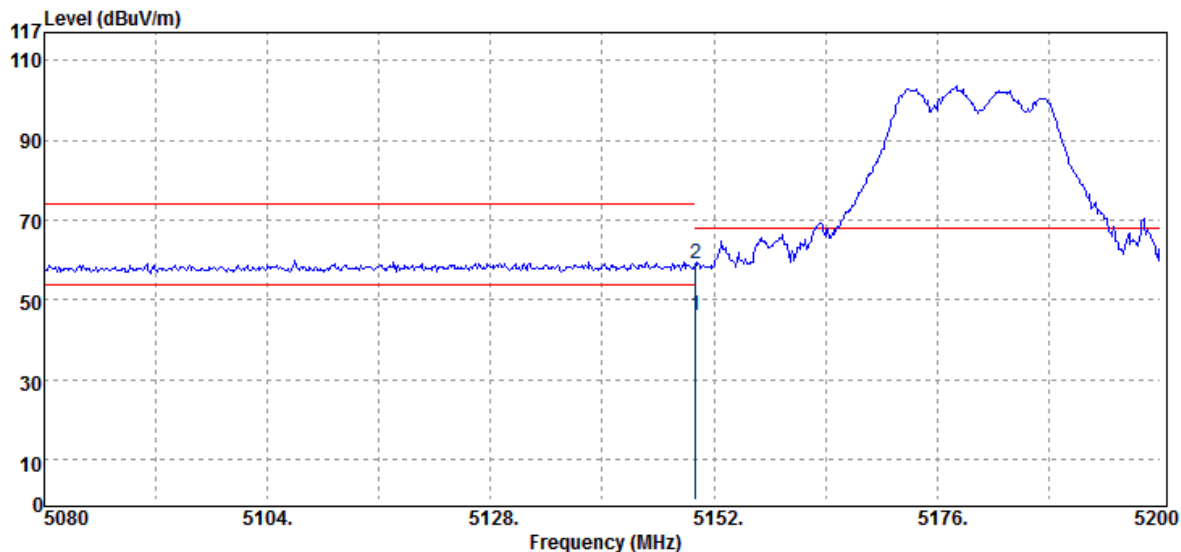
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## Band Edge falling to restricted band

### 802.11a mode

Operation Band :802.11aB1  
Fundamental Frequency :5180 MHz  
Operation Mode :Bandedge CH LOW  
EUT Pol. :E2 Plane

Test Date :2018-09-24  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Tin  
Measurement Antenna Pol. :VERTICAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5150.00      | Average                      | 37.97                             | 8.32         | 46.29                  | 54.00                  | -7.71        |
| 5150.00      | Peak                         | 50.94                             | 8.32         | 59.26                  | 74.00                  | -14.74       |

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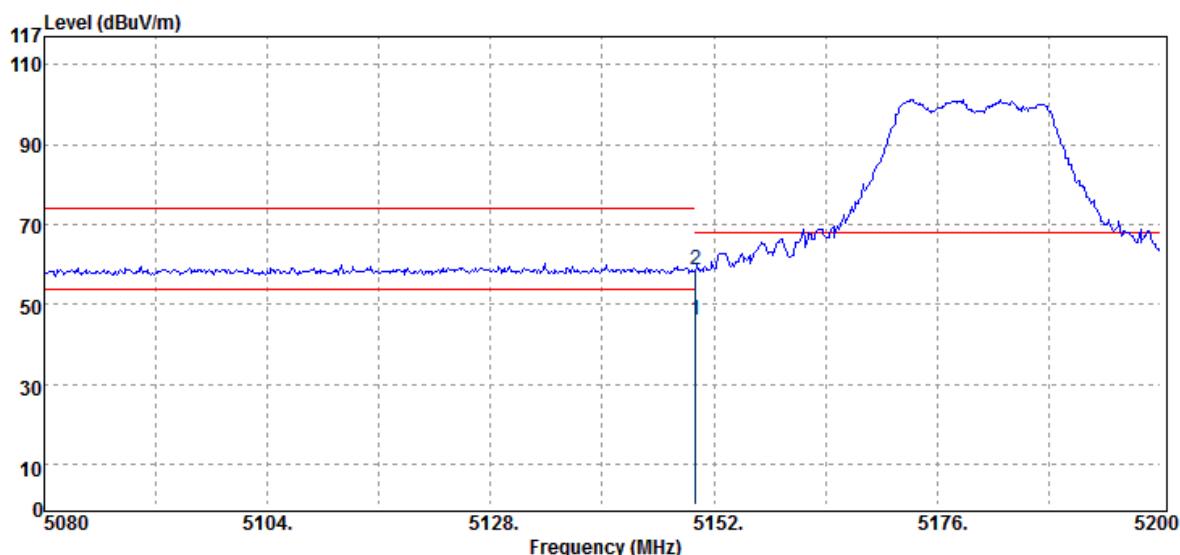
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Operation Band :802.11aB1  
 Fundamental Frequency :5180 MHz  
 Operation Mode :Bandedge CH LOW  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :HORIZONTAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5150.00      | Average                      | 37.99                             | 8.32         | 46.31                  | 54.00                  | -7.69        |
| 5150.00      | Peak                         | 50.26                             | 8.32         | 58.58                  | 74.00                  | -15.42       |

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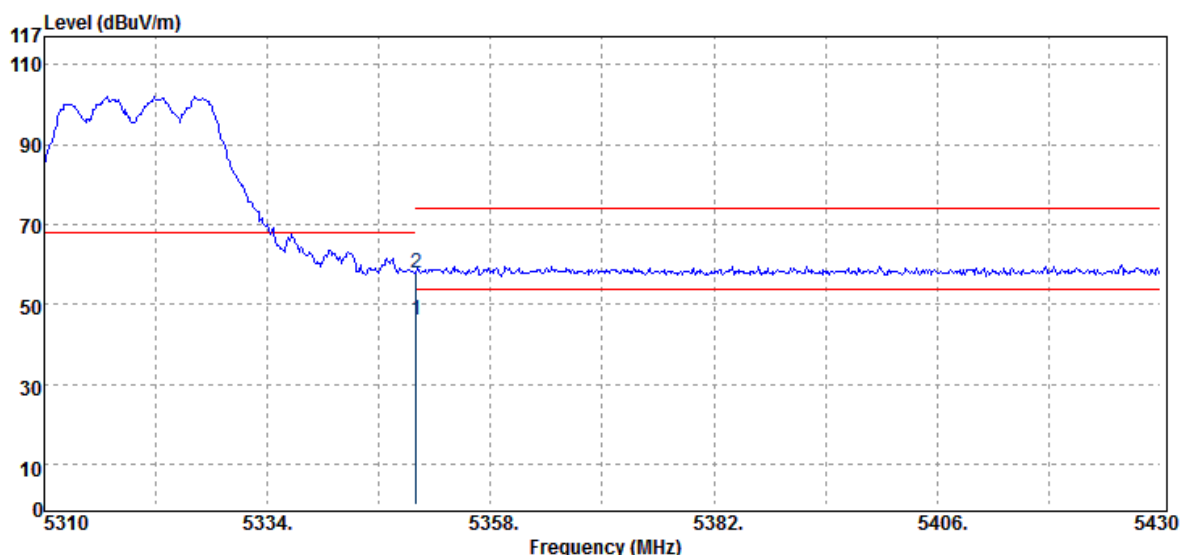
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Operation Band :802.11aB2  
 Fundamental Frequency :5320 MHz  
 Operation Mode :Bandedge CH HIGH  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :VERTICAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5350.00      | Average                      | 37.65                             | 8.63         | 46.28                  | 54.00                  | -7.72        |
| 5350.00      | Peak                         | 49.38                             | 8.63         | 58.01                  | 74.00                  | -15.99       |

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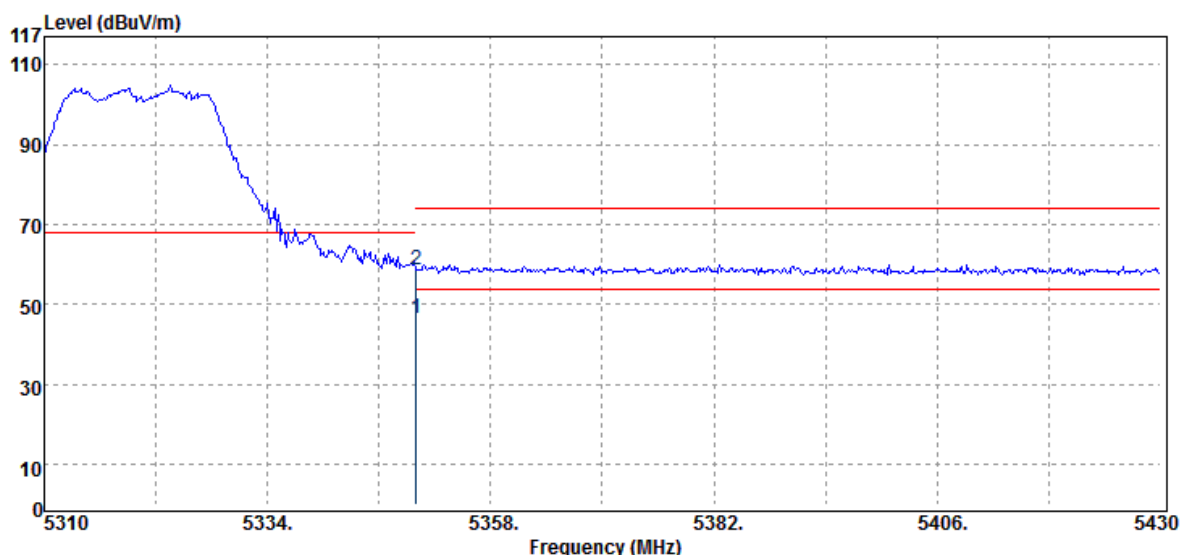
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Operation Band :802.11aB2  
Fundamental Frequency :5320 MHz  
Operation Mode :Bandedge CH HIGH  
EUT Pol. :E2 Plane

Test Date :2018-09-24  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Tin  
Measurement Antenna Pol. :HORIZONTAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5350.00      | Average                      | 38.10                             | 8.63         | 46.73                  | 54.00                  | -7.27        |
| 5350.00      | Peak                         | 50.00                             | 8.63         | 58.63                  | 74.00                  | -15.37       |

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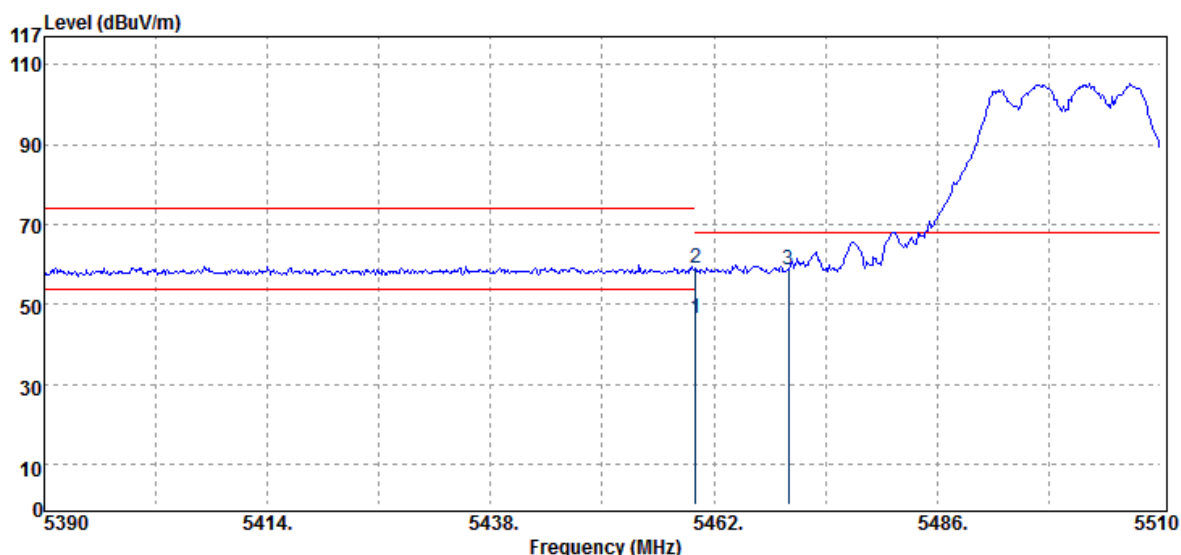
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Operation Band :802.11aB3  
 Fundamental Frequency :5500 MHz  
 Operation Mode :Bandedge CH LOW  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :VERTICAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5460.00      | Average                      | 37.87                             | 8.75         | 46.62                  | 54.00                  | -7.38        |
| 5460.00      | Peak                         | 50.17                             | 8.75         | 58.92                  | 74.00                  | -15.08       |
| 5470.00      | Peak                         | 49.96                             | 8.74         | 58.70                  | 68.20                  | -9.50        |

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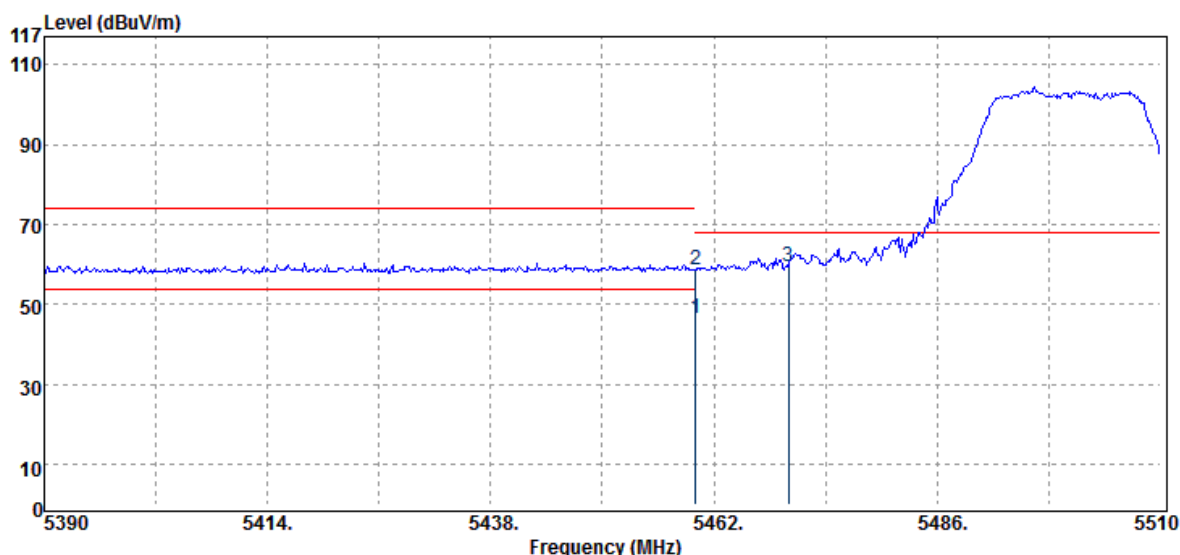
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Operation Band :802.11aB3  
 Fundamental Frequency :5500 MHz  
 Operation Mode :Bandedge CH LOW  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :HORIZONTAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5460.00      | Average                      | 37.80                             | 8.75         | 46.55                  | 54.00                  | -7.45        |
| 5460.00      | Peak                         | 49.91                             | 8.75         | 58.66                  | 74.00                  | -15.34       |
| 5470.00      | Peak                         | 50.74                             | 8.74         | 59.48                  | 68.20                  | -8.72        |

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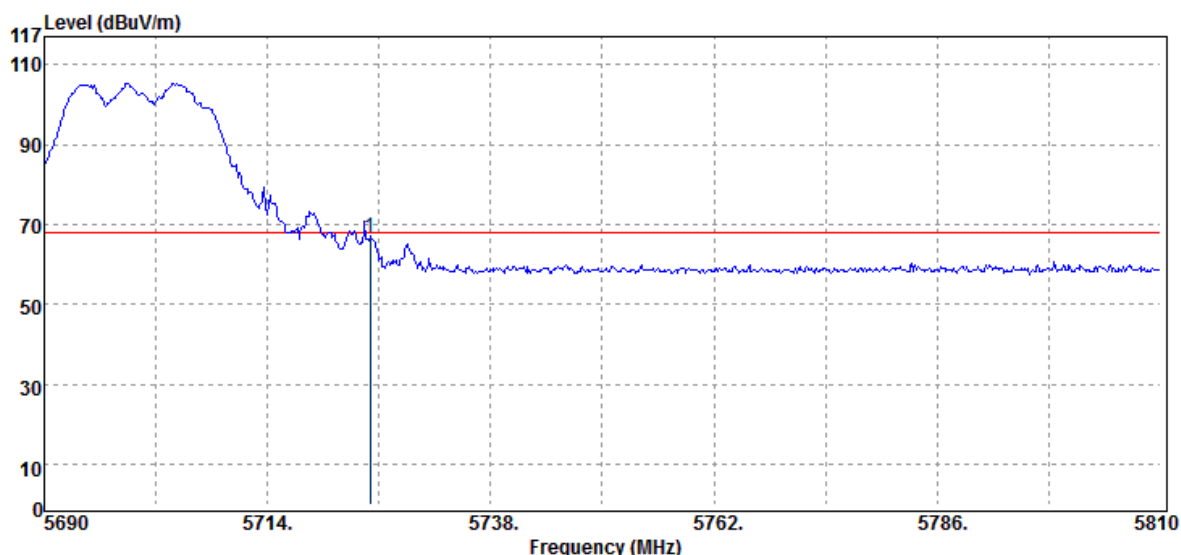
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Operation Band :802.11aB3  
 Fundamental Frequency :5700 MHz  
 Operation Mode :Bandedge CH HIGH  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :VERTICAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 5725.00      | Peak                         | 57.36                                   | 9.44         | 66.80                        | 68.20                        | -1.40        |

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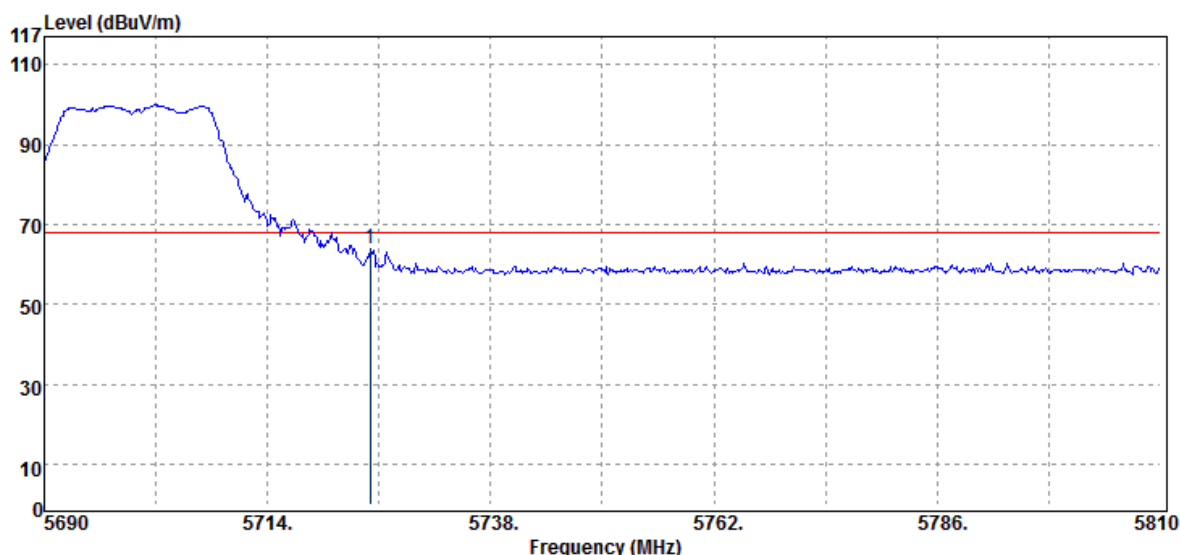
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Operation Band :802.11aB3  
 Fundamental Frequency :5700 MHz  
 Operation Mode :Bandedge CH HIGH  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :HORIZONTAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 5725.00      | Peak                         | 54.33                                   | 9.44         | 63.77                        | 68.20                        | -4.43        |

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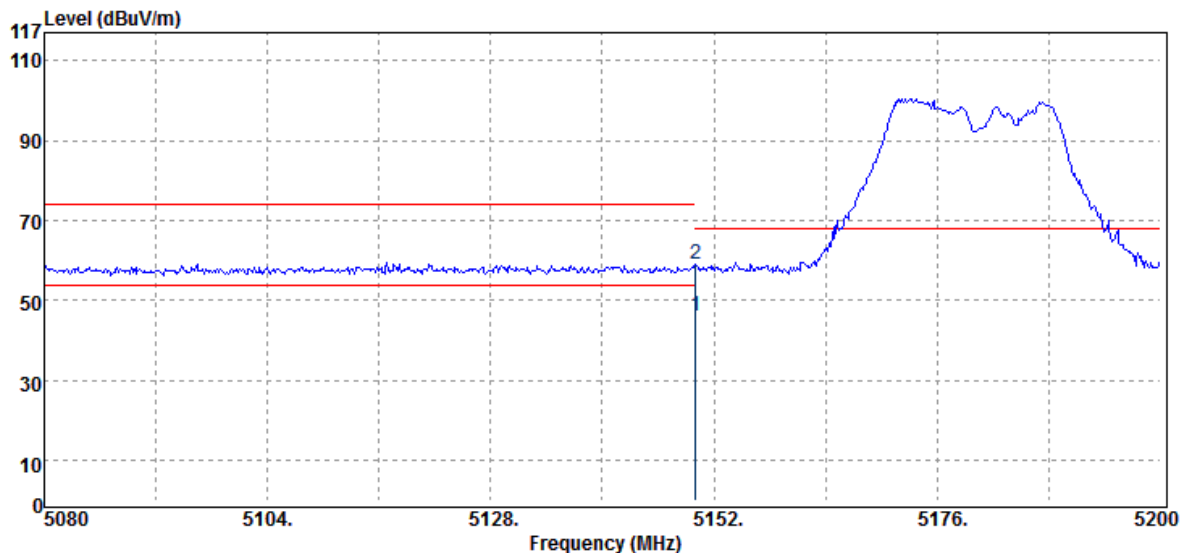
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## 802.11n20 HT mode

Operation Band :802.11n20B1  
Fundamental Frequency :5180 MHz  
Operation Mode :Bandedge CH LOW  
EUT Pol. :E2 Plane

Test Date :2018-09-24  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Tin  
Measurement Antenna Pol. :VERTICAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5150.00      | Average                      | 37.93                             | 8.32         | 46.25                  | 54.00                  | -7.75        |
| 5150.00      | Peak                         | 50.72                             | 8.32         | 59.04                  | 74.00                  | -14.96       |

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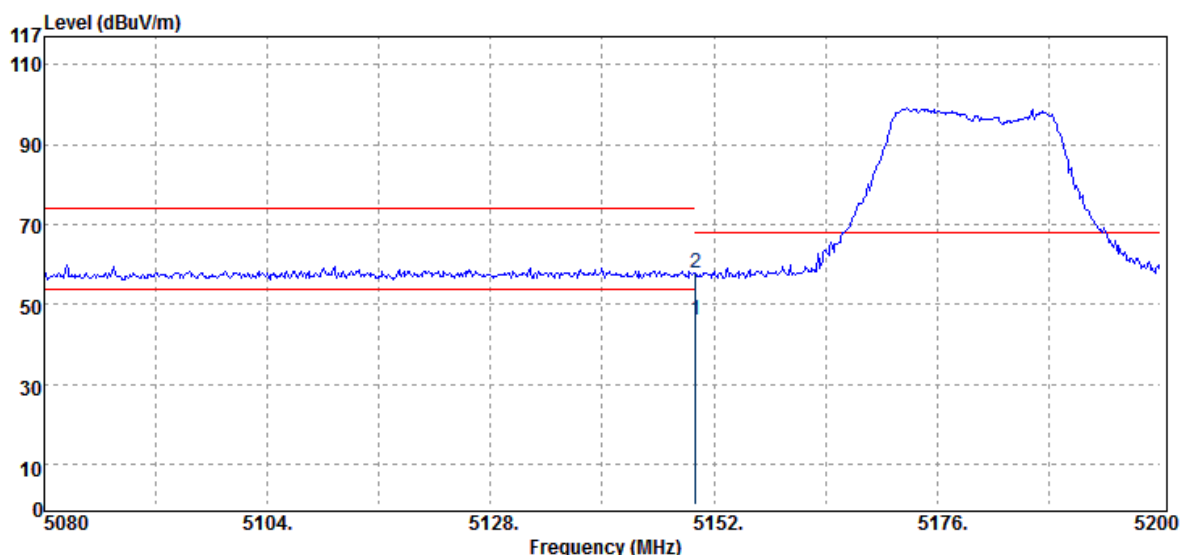
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Operation Band :802.11n20B1  
 Fundamental Frequency :5180 MHz  
 Operation Mode :Bandedge CH LOW  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :HORIZONTAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5150.00      | Average                      | 37.79                             | 8.32         | 46.11                  | 54.00                  | -7.89        |
| 5150.00      | Peak                         | 49.46                             | 8.32         | 57.78                  | 74.00                  | -16.22       |

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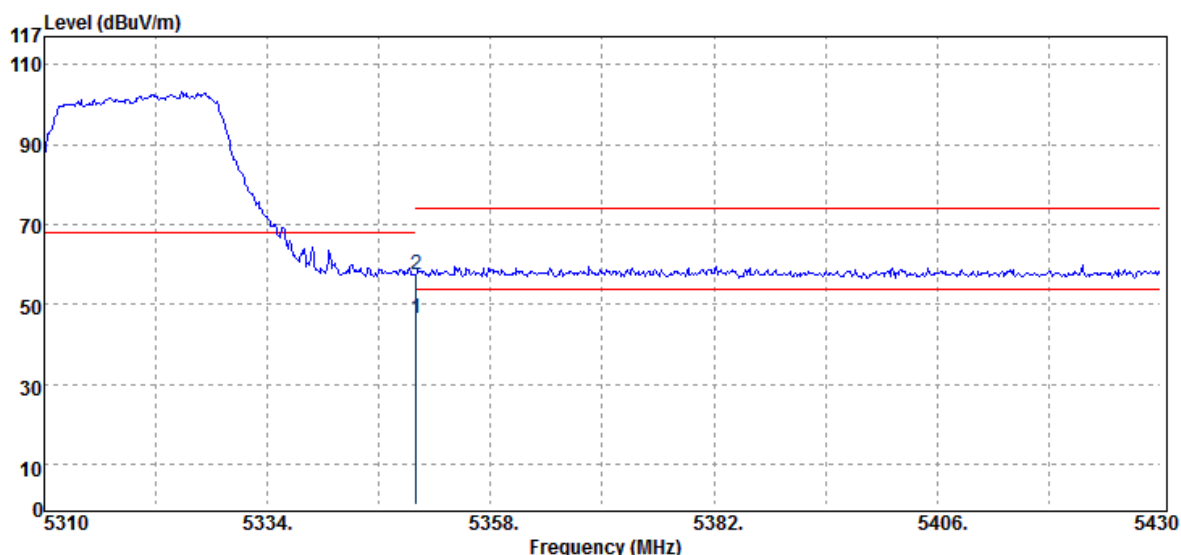
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Operation Band :802.11n20B1  
 Fundamental Frequency :5320 MHz  
 Operation Mode :Bandedge CH HIGH  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :VERTICAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 5350.00      | Average                      | 37.77                                   | 8.63         | 46.40                        | 54.00                        | -7.60        |
| 5350.00      | Peak                         | 48.66                                   | 8.63         | 57.29                        | 74.00                        | -16.71       |

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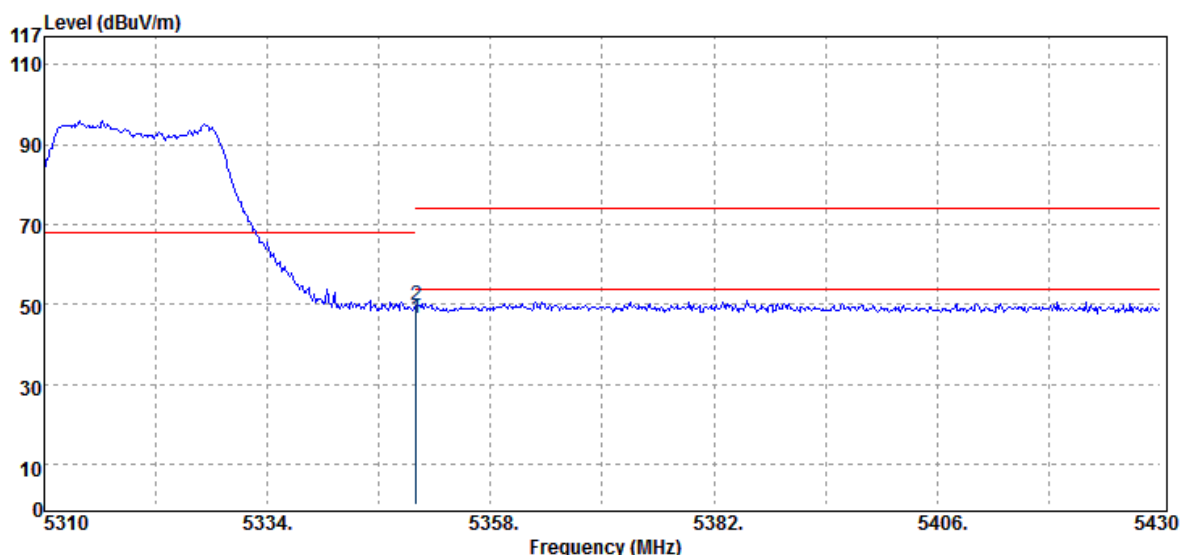
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Operation Band :802.11n20B1  
 Fundamental Frequency :5320 MHz  
 Operation Mode :Bandedge CH HIGH  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :HORIZONTAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5350.00      | Average                      | 37.98                             | 8.63         | 46.61                  | 54.00                  | -7.39        |
| 5350.00      | Peak                         | 41.13                             | 8.63         | 49.76                  | 74.00                  | -24.24       |

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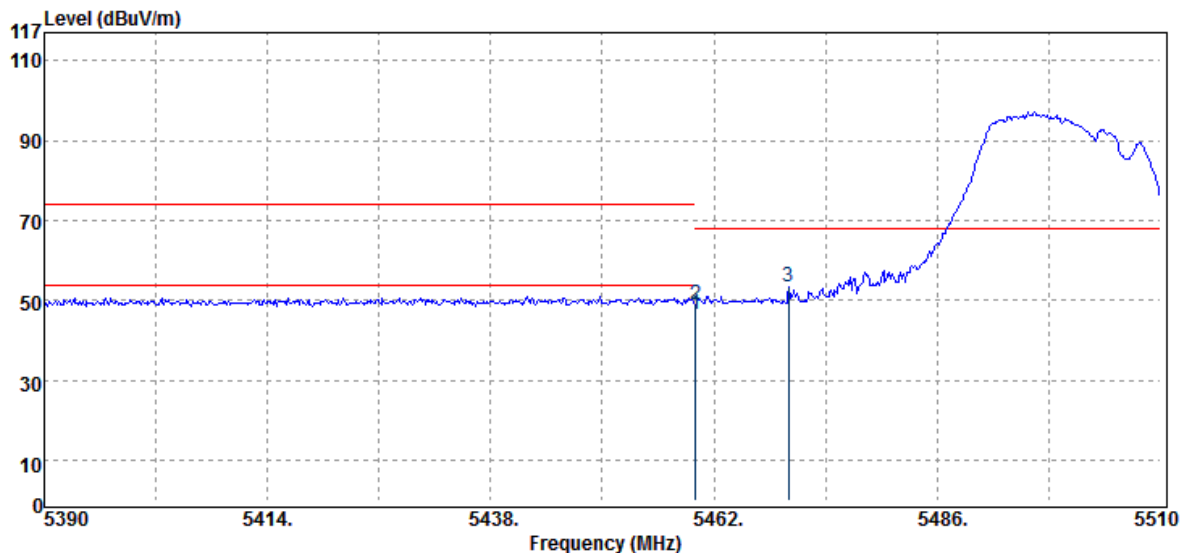
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Operation Band :802.11n20B3  
 Fundamental Frequency :5500 MHz  
 Operation Mode :Bandedge CH LOW  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :VERTICAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5460.00      | Average                      | 37.75                             | 8.75         | 46.50                  | 54.00                  | -7.50        |
| 5460.00      | Peak                         | 40.30                             | 8.75         | 49.05                  | 74.00                  | -24.95       |
| 5470.00      | Peak                         | 44.59                             | 8.74         | 53.33                  | 68.20                  | -14.87       |

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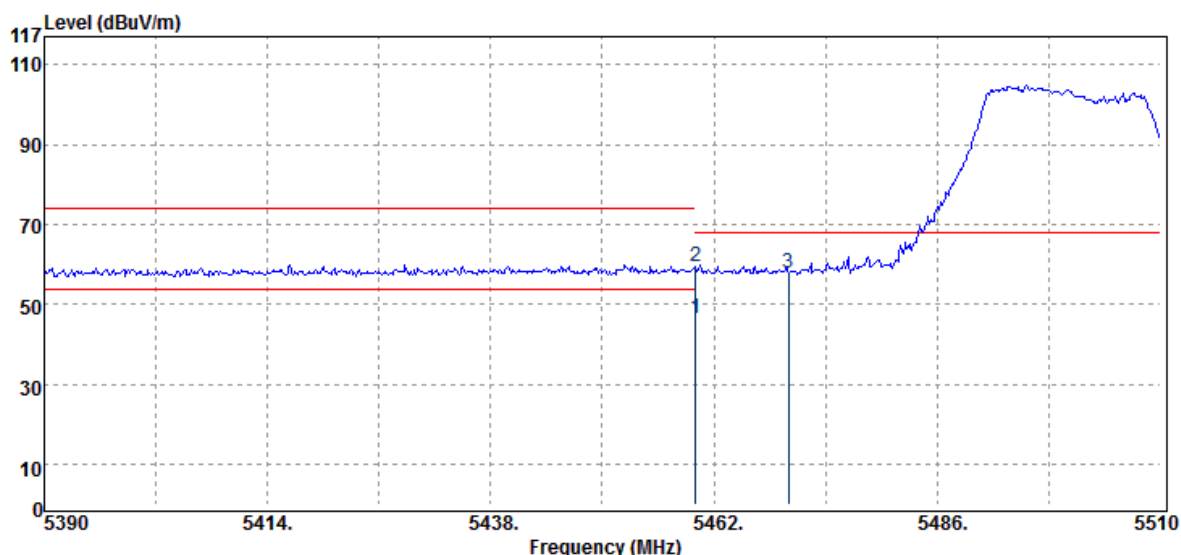
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Operation Band :802.11n20B3  
Fundamental Frequency :5500 MHz  
Operation Mode :Bandedge CH LOW  
EUT Pol. :E2 Plane

Test Date :2018-09-24  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Tin  
Measurement Antenna Pol. :HORIZONTAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5460.00      | Average                      | 37.80                             | 8.75         | 46.55                  | 54.00                  | -7.45        |
| 5460.00      | Peak                         | 50.72                             | 8.75         | 59.47                  | 74.00                  | -14.53       |
| 5470.00      | Peak                         | 49.13                             | 8.74         | 57.87                  | 68.20                  | -10.33       |

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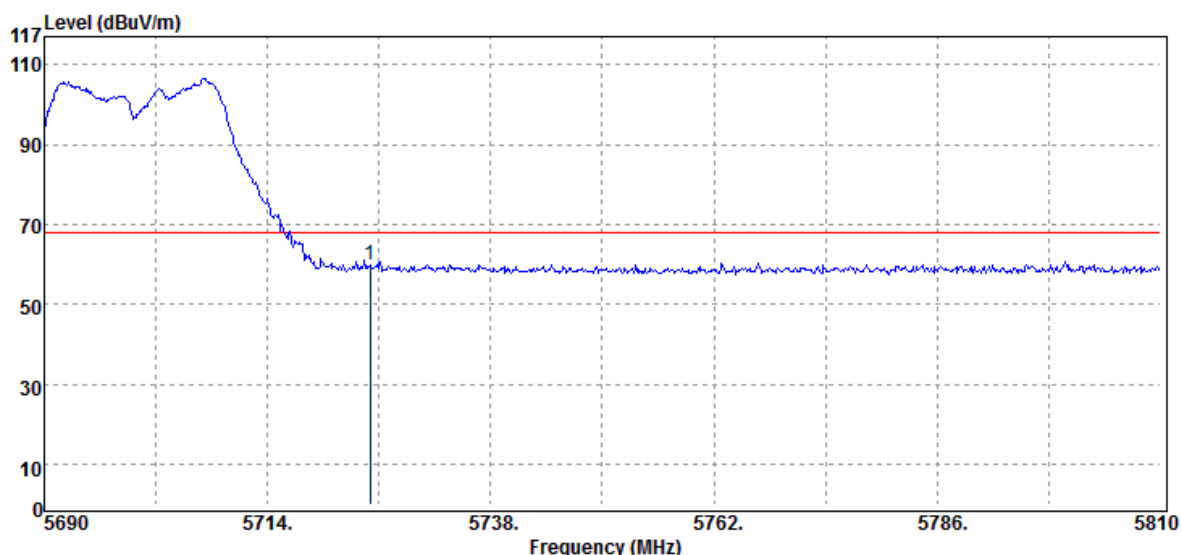
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Operation Band :802.11n20B3  
 Fundamental Frequency :5700 MHz  
 Operation Mode :Bandedge CH HIGH  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :VERTICAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 5725.00      | Peak                         | 50.49                                   | 9.44         | 59.93                        | 68.20                        | -8.27        |

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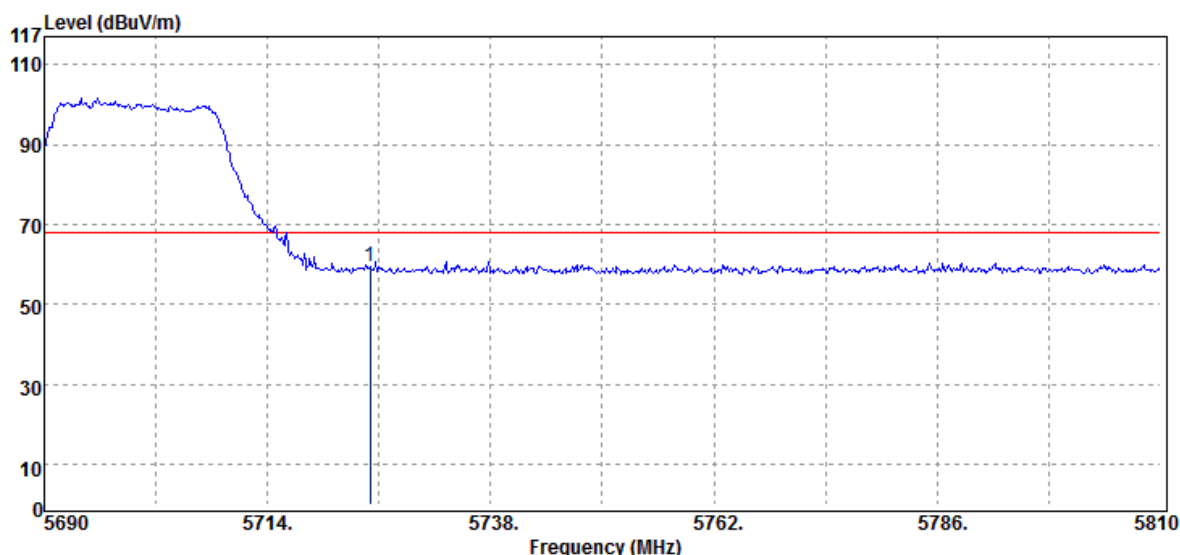
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Operation Band :802.11n20B3  
 Fundamental Frequency :5700 MHz  
 Operation Mode :Bandedge CH HIGH  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :HORIZONTAL



| Freq.   | Detector | Spectrum      | Factor | Actual       | Limit        | Margin |
|---------|----------|---------------|--------|--------------|--------------|--------|
| MHz     | Mode     | Reading Level |        | FS           | @3m          |        |
|         | PK/QP/AV | dB $\mu$ V    | dB     | dB $\mu$ V/m | dB $\mu$ V/m | dB     |
| 5725.00 | Peak     | 49.97         | 9.44   | 59.41        | 68.20        | -8.79  |

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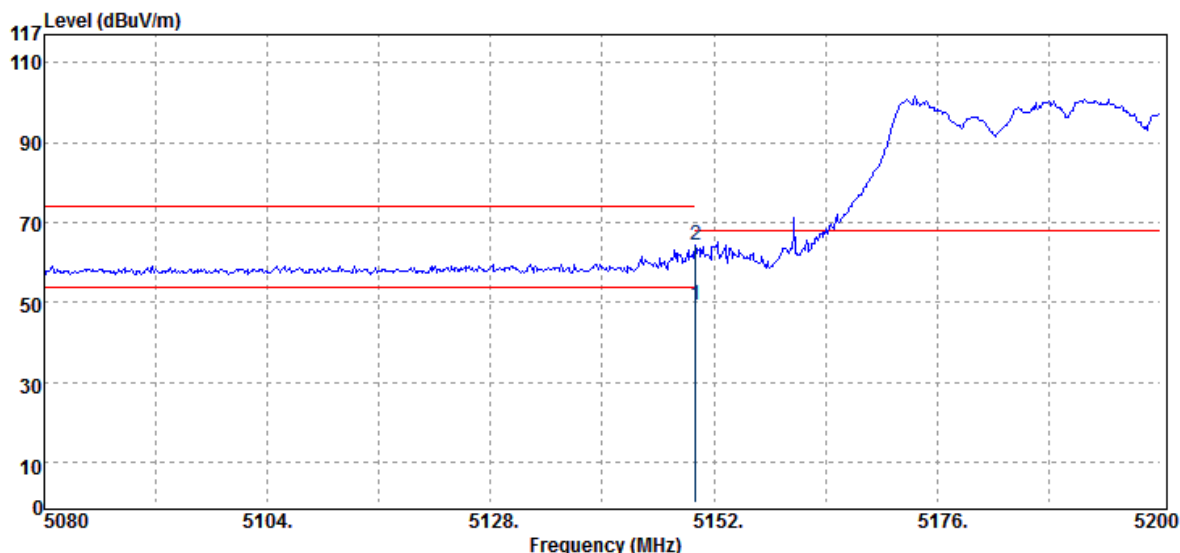
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## 802.11n40 HT mode

Operation Band :802.11n40B1  
Fundamental Frequency :5190 MHz  
Operation Mode :Bandedge CH LOW  
EUT Pol. :E2 Plane

Test Date :2018-09-24  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Tin  
Measurement Antenna Pol. :VERTICAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5150.00      | Average                      | 41.13                             | 8.32         | 49.45                  | 54.00                  | -4.55        |
| 5150.00      | Peak                         | 56.09                             | 8.32         | 64.41                  | 74.00                  | -9.59        |

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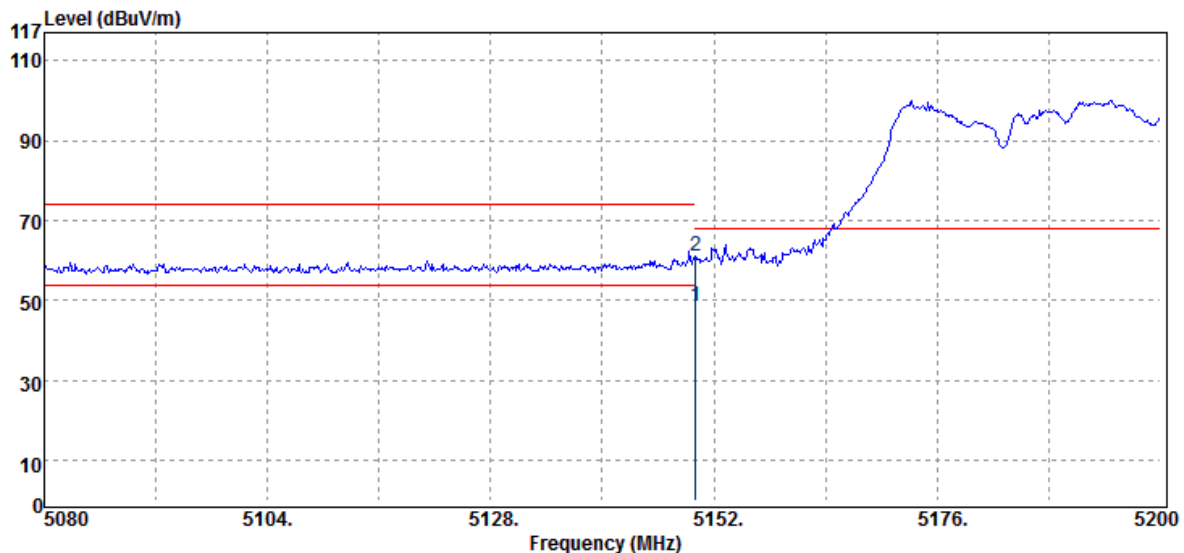
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Operation Band :802.11n40B1  
Fundamental Frequency :5190 MHz  
Operation Mode :Bandedge CH LOW  
EUT Pol. :E2 Plane

Test Date :2018-09-24  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Tin  
Measurement Antenna Pol. :HORIZONTAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5150.00      | Average                      | 40.16                             | 8.32         | 48.48                  | 54.00                  | -5.52        |
| 5150.00      | Peak                         | 52.87                             | 8.32         | 61.19                  | 74.00                  | -12.81       |

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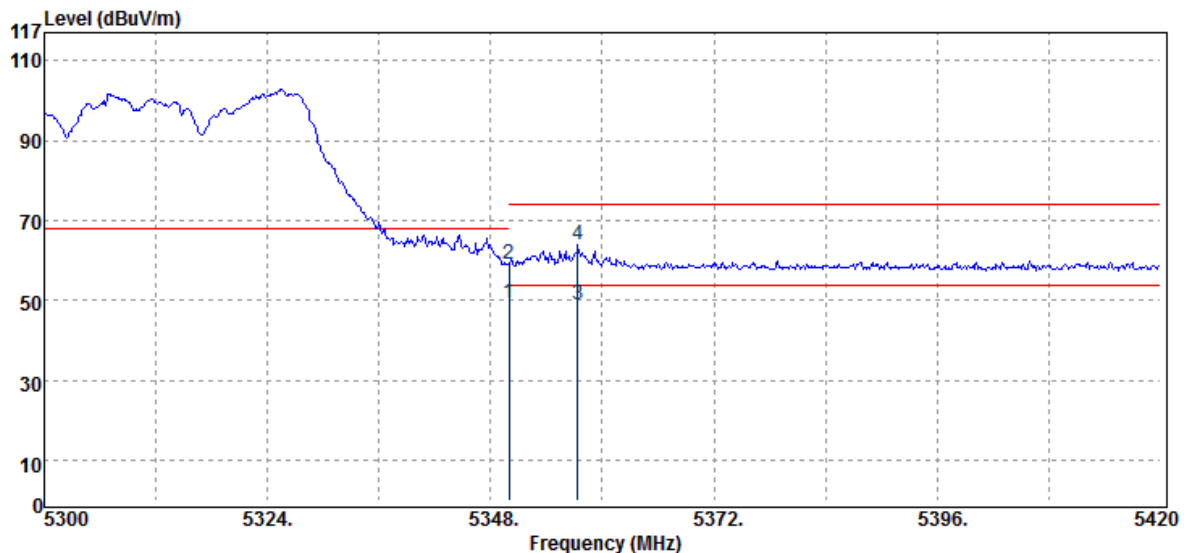
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Operation Band :802.11n40B2  
Fundamental Frequency :5310 MHz  
Operation Mode :Bandedge CH HIGH  
EUT Pol. :E2 Plane

Test Date :2018-09-24  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Tin  
Measurement Antenna Pol. :VERTICAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5350.00      | Average                      | 40.65                             | 8.63         | 49.28                  | 54.00                  | -4.72        |
| 5350.00      | Peak                         | 50.30                             | 8.63         | 58.93                  | 74.00                  | -15.07       |
| 5357.36      | Average                      | 40.26                             | 8.65         | 48.91                  | 54.00                  | -5.09        |
| 5357.36      | Peak                         | 55.17                             | 8.65         | 63.82                  | 74.00                  | -10.18       |

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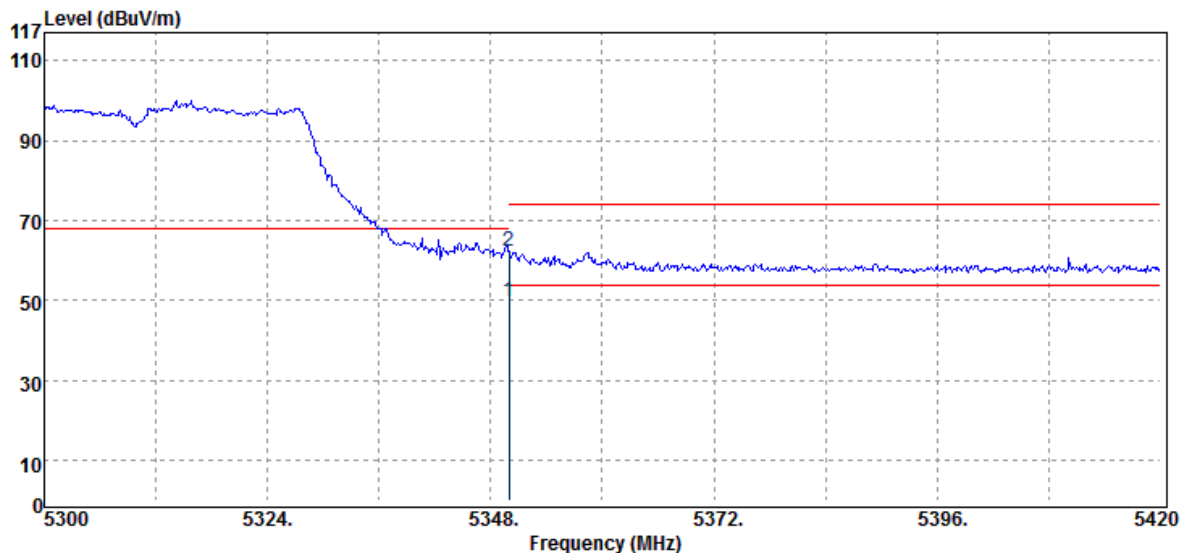
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Operation Band :802.11n40B2  
 Fundamental Frequency :5310 MHz  
 Operation Mode :Bandedge CH HIGH  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :HORIZONTAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5350.00      | Average                      | 41.12                             | 8.63         | 49.75                  | 54.00                  | -4.25        |
| 5350.00      | Peak                         | 53.68                             | 8.63         | 62.31                  | 74.00                  | -11.69       |

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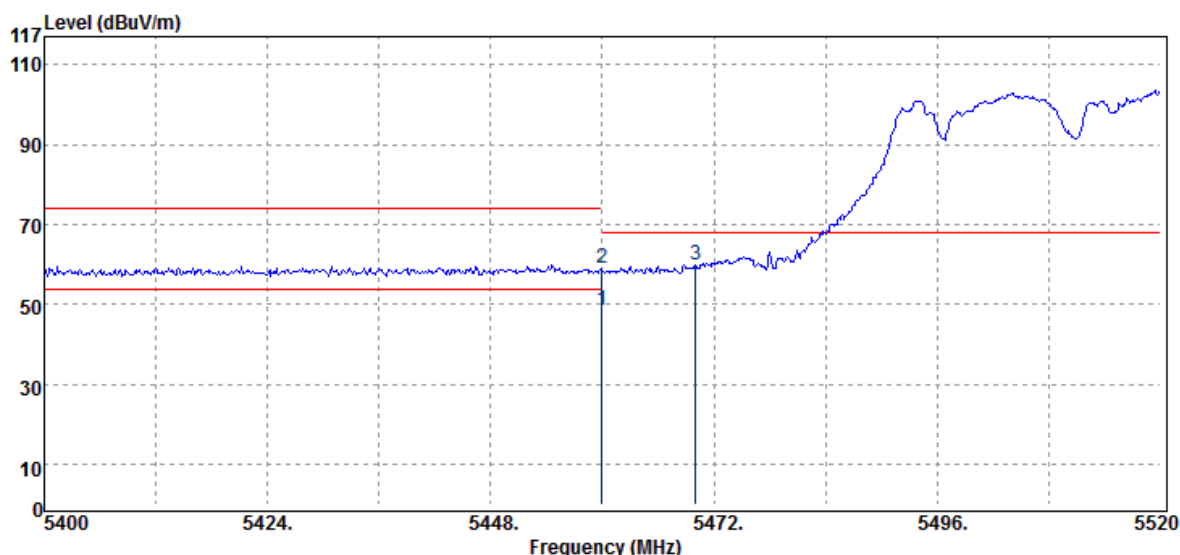
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Operation Band :802.11n40B3  
 Fundamental Frequency :5510 MHz  
 Operation Mode :Bandedge CH LOW  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :VERTICAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5460.00      | Average                      | 39.96                             | 8.75         | 48.71                  | 54.00                  | -5.29        |
| 5460.00      | Peak                         | 50.18                             | 8.75         | 58.93                  | 74.00                  | -15.07       |
| 5470.00      | Peak                         | 51.16                             | 8.74         | 59.90                  | 68.20                  | -8.30        |

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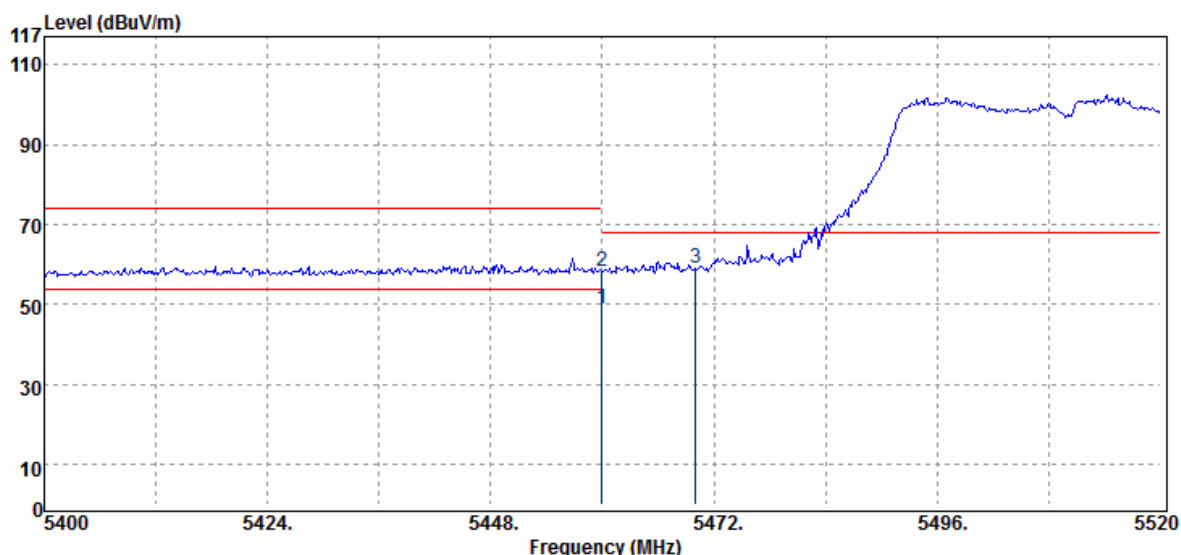
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Operation Band :802.11n40B3  
Fundamental Frequency :5510 MHz  
Operation Mode :Bandedge CH LOW  
EUT Pol. :E2 Plane

Test Date :2018-09-24  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Tin  
Measurement Antenna Pol. :HORIZONTAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5460.00      | Average                      | 40.30                             | 8.75         | 49.05                  | 54.00                  | -4.95        |
| 5460.00      | Peak                         | 49.59                             | 8.75         | 58.34                  | 74.00                  | -15.66       |
| 5470.00      | Peak                         | 50.35                             | 8.74         | 59.09                  | 68.20                  | -9.11        |

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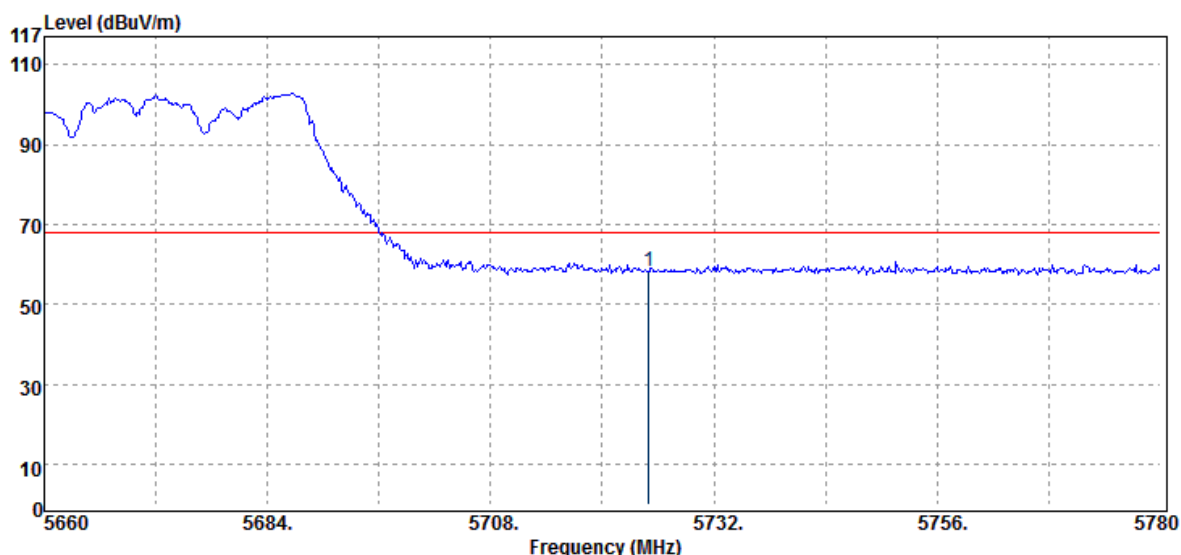
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Operation Band :802.11n40B3  
 Fundamental Frequency :5670 MHz  
 Operation Mode :Bandedge CH HIGH  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :VERTICAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 5725.00      | Peak                         | 48.89                                   | 9.44         | 58.33                        | 68.20                        | -9.87        |

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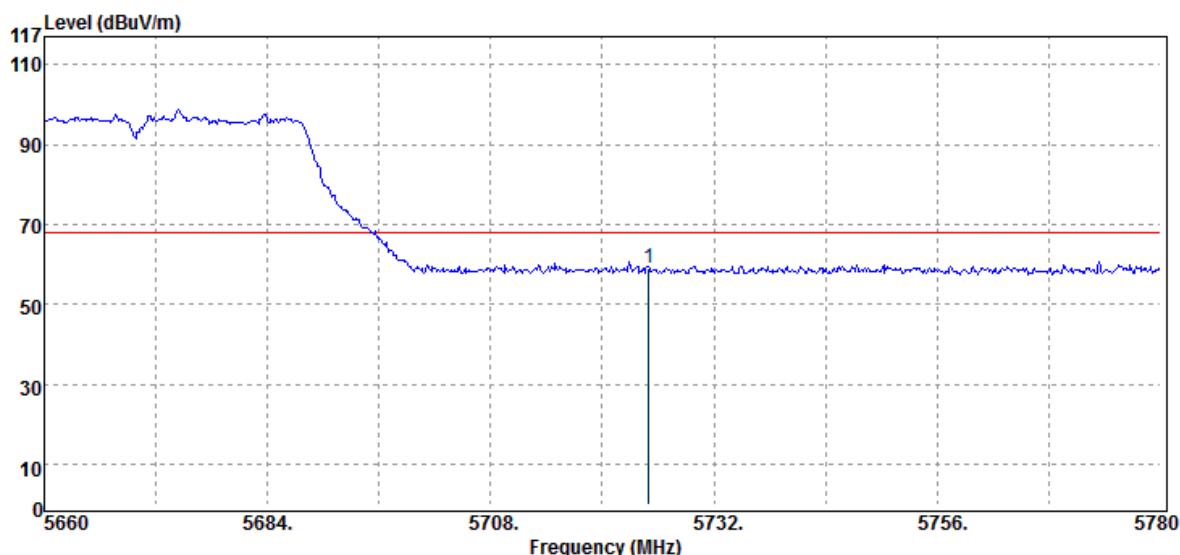
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Operation Band :802.11n40B3  
 Fundamental Frequency :5670 MHz  
 Operation Mode :Bandedge CH HIGH  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :HORIZONTAL



| Freq.   | Detector | Spectrum      | Factor | Actual       | Limit        | Margin |
|---------|----------|---------------|--------|--------------|--------------|--------|
| MHz     | Mode     | Reading Level |        | FS           | @3m          |        |
|         | PK/QP/AV | dB $\mu$ V    | dB     | dB $\mu$ V/m | dB $\mu$ V/m | dB     |
| 5725.00 | Peak     | 49.82         | 9.44   | 59.26        | 68.20        | -8.94  |

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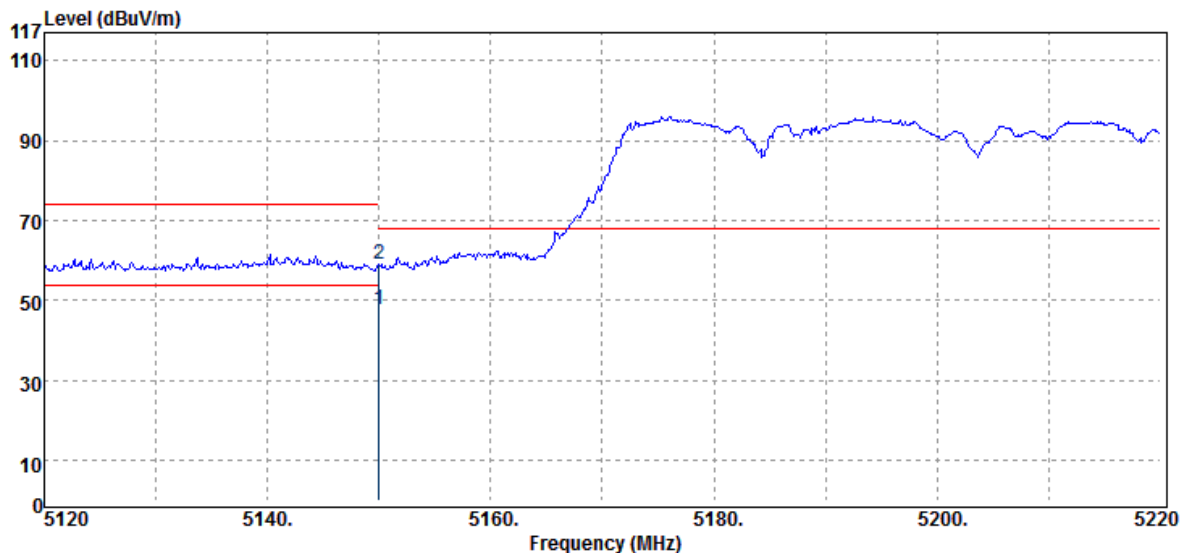
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## 802.11ac VHT80 mode

Operation Band :802.11ac80B1  
Fundamental Frequency :5210 MHz  
Operation Mode :Bandedge CH LOW  
EUT Pol. :E2 Plane

Test Date :2018-09-24  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Tin  
Measurement Antenna Pol. :VERTICAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5150.00      | Average                      | 39.32                             | 8.32         | 47.64                  | 54.00                  | -6.36        |
| 5150.00      | Peak                         | 50.96                             | 8.32         | 59.28                  | 74.00                  | -14.72       |

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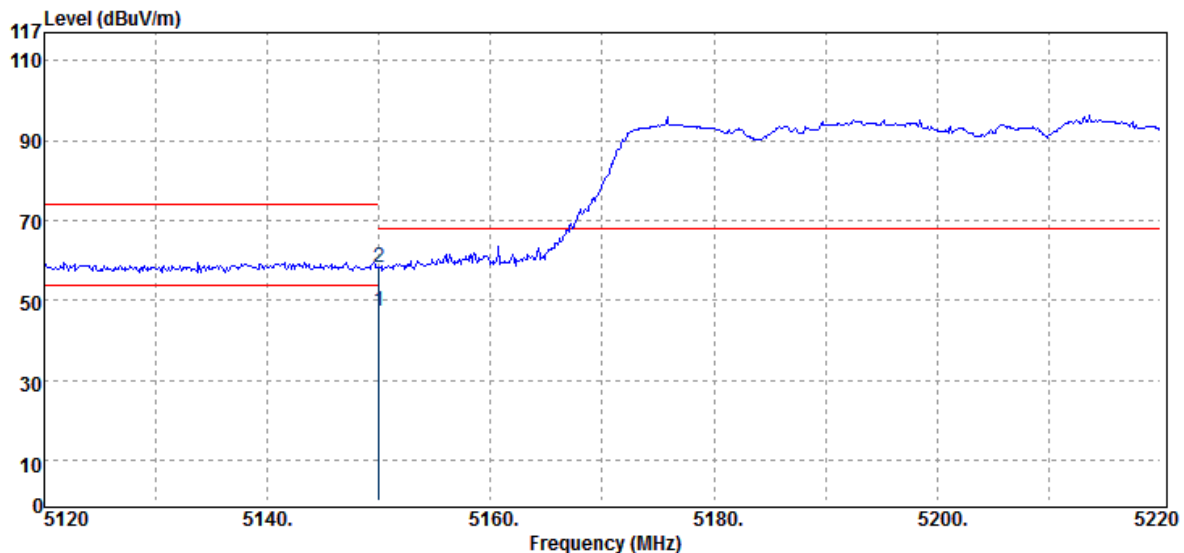
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Operation Band :802.11ac80B1  
 Fundamental Frequency :5210 MHz  
 Operation Mode :Bandedge CH LOW  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :HORIZONTAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5150.00      | Average                      | 39.05                             | 8.32         | 47.37                  | 54.00                  | -6.63        |
| 5150.00      | Peak                         | 49.90                             | 8.32         | 58.22                  | 74.00                  | -15.78       |

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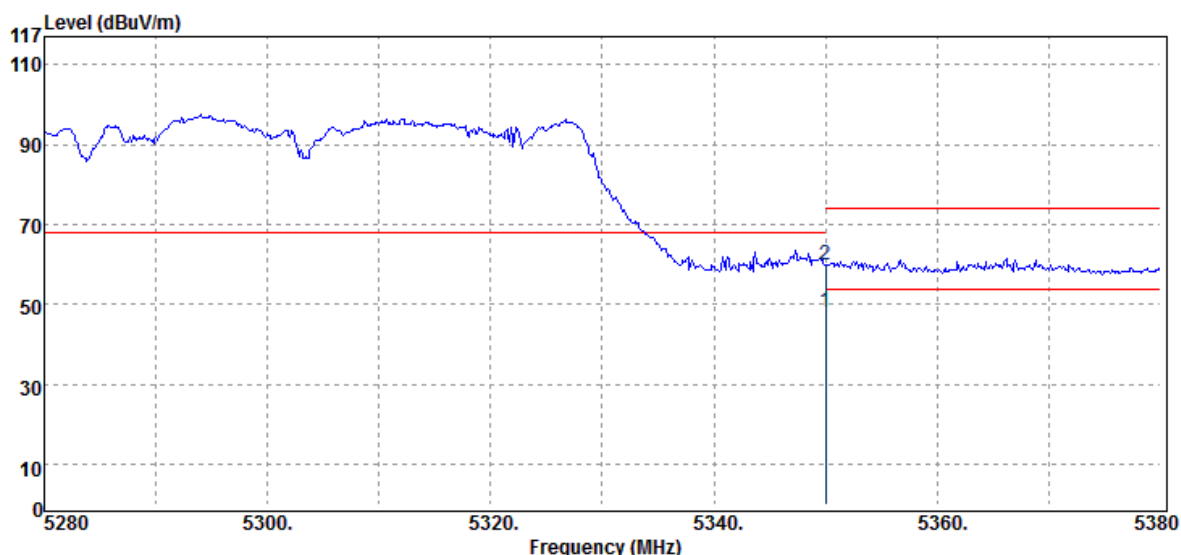
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Member of SGS Group

Operation Band :802.11ac80B2  
 Fundamental Frequency :5290 MHz  
 Operation Mode :Bandedge CH HIGH  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :VERTICAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5350.00      | Average                      | 39.54                             | 8.63         | 48.17                  | 54.00                  | -5.83        |
| 5350.00      | Peak                         | 51.48                             | 8.63         | 60.11                  | 74.00                  | -13.89       |

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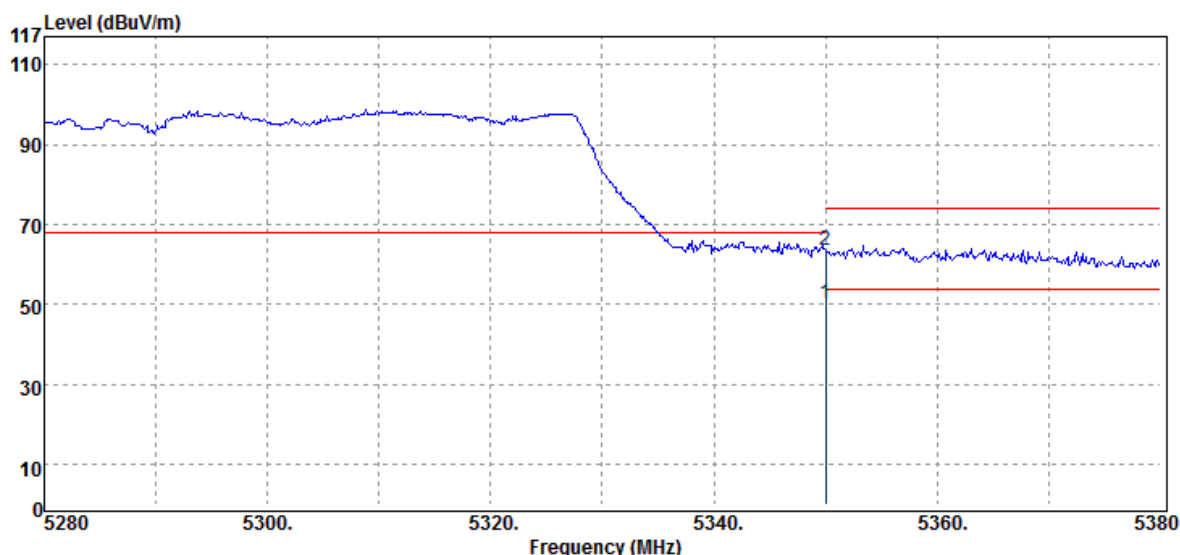
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Member of SGS Group

Operation Band :802.11ac80B2  
 Fundamental Frequency :5290 MHz  
 Operation Mode :Bandedge CH HIGH  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :HORIZONTAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5350.00      | Average                      | 41.71                             | 8.63         | 50.34                  | 54.00                  | -3.66        |
| 5350.00      | Peak                         | 54.96                             | 8.63         | 63.59                  | 74.00                  | -10.41       |

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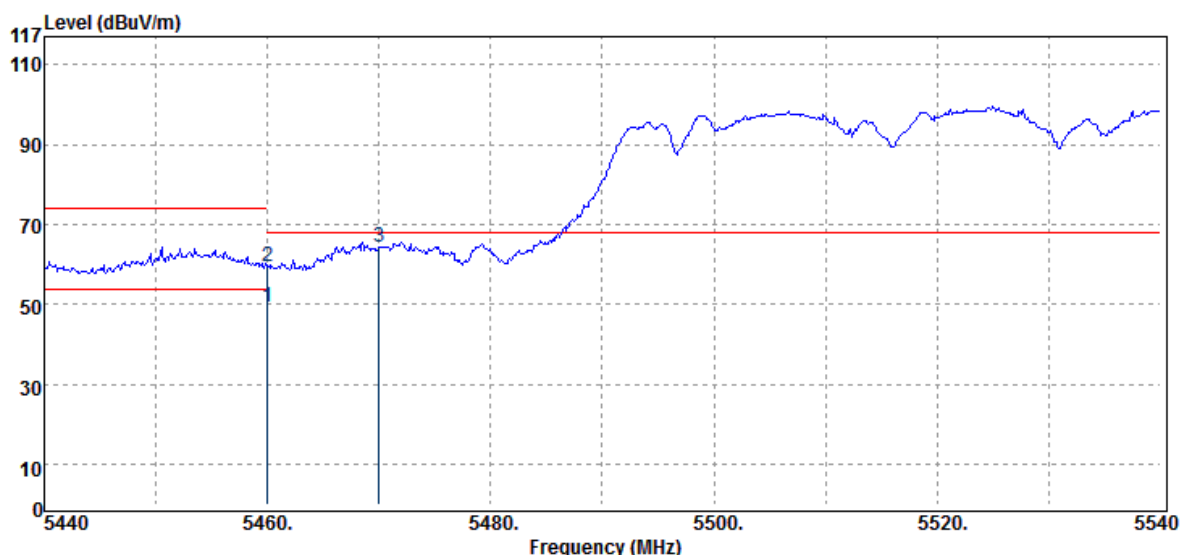
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Member of SGS Group

Operation Band :802.11ac80B3  
 Fundamental Frequency :5530 MHz  
 Operation Mode :Bandedge CH LOW  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :VERTICAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5460.00      | Average                      | 40.53                             | 8.75         | 49.28                  | 54.00                  | -4.72        |
| 5460.00      | Peak                         | 50.78                             | 8.75         | 59.53                  | 74.00                  | -14.47       |
| 5470.00      | Peak                         | 55.81                             | 8.74         | 64.55                  | 68.20                  | -3.65        |

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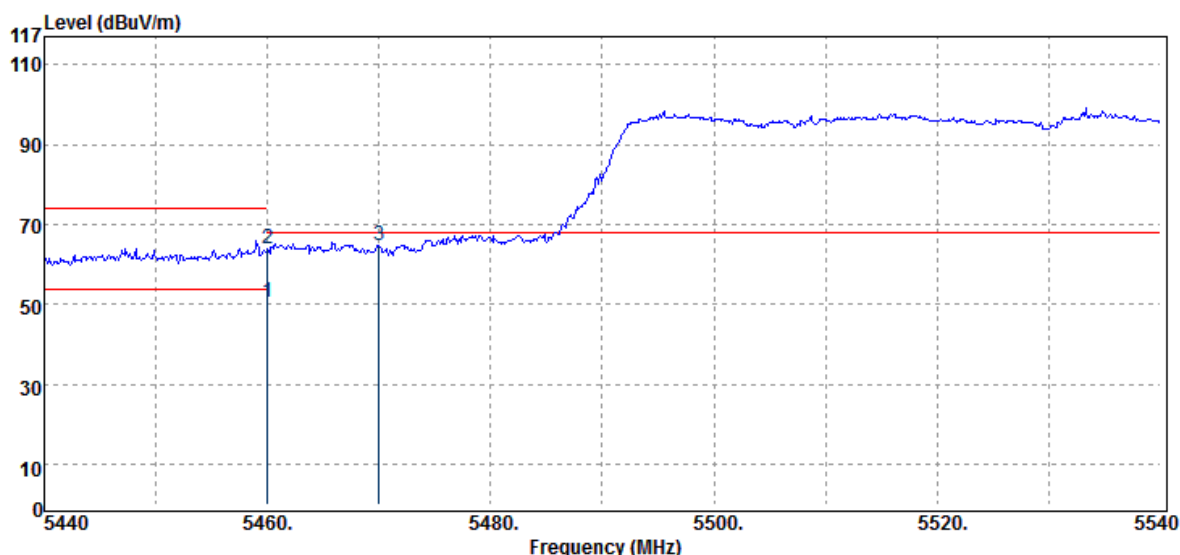
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Operation Band :802.11ac80B3  
 Fundamental Frequency :5530 MHz  
 Operation Mode :Bandedge CH LOW  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :HORIZONTAL



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5460.00      | Average                      | 41.82                             | 8.75         | 50.57                  | 54.00                  | -3.43        |
| 5460.00      | Peak                         | 55.42                             | 8.75         | 64.17                  | 74.00                  | -9.83        |
| 5470.00      | Peak                         | 56.11                             | 8.74         | 64.85                  | 68.20                  | -3.35        |

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## 12. TRANSMISSION IN THE ABSENCE OF DATA

### 12.1 Standard Applicable

According to §15.407(c)

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 a description of how this requirement is met.

### 12.2 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 ASK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

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## 13. FREQUENCY STABILITY

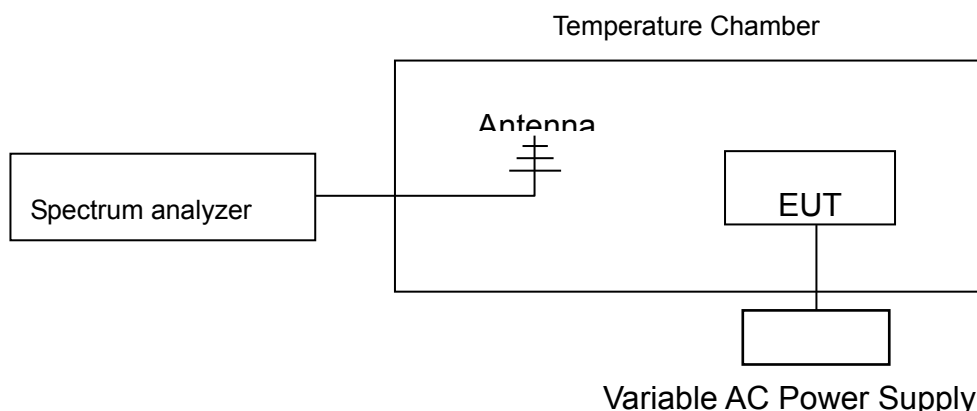
### 13.1 Standard Applicable

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

### 13.2 Measurement Procedure

1. The EUT was placed inside temperature chamber and powered and powered by nominal DC voltage.
2. Set EUT as normal operation.
3. Turn the EUT on and couple its output to spectrum.
4. Turn the EUT off and set the chamber to the highest temperature specified.
5. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT and measure the operating frequency.
6. Repeat step with the temperature chamber set to the lowest temperature.

### 13.3 Test SET-UP



### 13.4 Measurement Equipment Used:

| EQUIPMENT TYPE        | MFR           | MODEL NUMBER | SERIAL NUMBER | LAST CAL.  | CAL DUE.   |
|-----------------------|---------------|--------------|---------------|------------|------------|
| EXA Spectrum Analyzer | Agilent       | N9010A       | MY57120290    | 02/14/2018 | 02/13/2019 |
| DC Power Supply       | Anritsu       | E3640A       | MY52410006    | 11/28/2017 | 11/27/2018 |
| Temperature Chamber   | TERCHY        | MHG-120LF    | 911009        | 05/18/2018 | 05/17/2019 |
| Attenuator            | Mini-Circuit  | BW-S10W2+    | 2             | 01/02/2018 | 01/01/2019 |
| DC Block              | Mini-Circuits | BLK-18-S+    | 1             | 01/02/2018 | 01/01/2019 |
| Coaxial Cables        | N/A           | WK CE Cable  | N/A           | 01/02/2018 | 01/01/2019 |
| Notebook              | Lenovo        | T440P        | P0000564      | N/A        | N/A        |

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### 13.5 Measurement Result

#### Startup:

|                |          |           |            |
|----------------|----------|-----------|------------|
| Operation Mode | 802.11 a | Test Date | 2018.09.13 |
| Temperature    | :23 °C   | Test By   | Gary       |
| Humidity       | :68 %    |           |            |

| Test Temp. | Test Voltage | Channel | Measured Frequency (MHz) | Spectrum Frequency (MHz) | ΔFrequency (MHz) |
|------------|--------------|---------|--------------------------|--------------------------|------------------|
| -10 °C     | 4.43V        | 36      | 5180                     | 5,179.99034              | 0.00000186       |
|            |              | 44      | 5220                     | 5,219.99158              | 0.00000161       |
|            |              | 48      | 5240                     | 5,240.00846              | -0.00000161      |
|            |              | 52      | 5260                     | 5,260.00945              | -0.00000180      |
|            |              | 60      | 5300                     | 5,299.99615              | 0.00000073       |
|            |              | 64      | 5320                     | 5,320.00641              | -0.00000121      |
|            |              | 100     | 5500                     | 5,499.99605              | 0.00000072       |
|            |              | 116     | 5580                     | 5,579.99450              | 0.00000099       |
|            |              | 140     | 5700                     | 5,699.99416              | 0.00000102       |
|            | 3.27V        | 36      | 5180                     | 5,180.00899              | -0.00000174      |
|            |              | 44      | 5220                     | 5,219.99298              | 0.00000135       |
|            |              | 48      | 5240                     | 5,239.99641              | 0.00000069       |
|            |              | 52      | 5260                     | 5,260.00369              | -0.00000070      |
|            |              | 60      | 5300                     | 5,299.99333              | 0.00000126       |
|            |              | 64      | 5320                     | 5,319.99425              | 0.00000108       |
|            |              | 100     | 5500                     | 5,499.99921              | 0.00000014       |
|            |              | 116     | 5580                     | 5,579.99844              | 0.00000028       |
|            |              | 140     | 5700                     | 5,700.00985              | -0.00000173      |

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|       |       |     |      |             |             |
|-------|-------|-----|------|-------------|-------------|
| 25 °C | 3.85V | 36  | 5180 | 5,180.00499 | -0.00000096 |
|       |       | 44  | 5220 | 5,219.99427 | 0.00000110  |
|       |       | 48  | 5240 | 5,240.00954 | -0.00000182 |
|       |       | 52  | 5260 | 5,260.00703 | -0.00000134 |
|       |       | 60  | 5300 | 5,299.99970 | 0.00000006  |
|       |       | 64  | 5320 | 5,319.99516 | 0.00000091  |
|       |       | 100 | 5500 | 5,500.00269 | -0.00000049 |
|       |       | 116 | 5580 | 5,579.99538 | 0.00000083  |
|       |       | 140 | 5700 | 5,699.99347 | 0.00000114  |
| 55 °C | 4.43V | 36  | 5180 | 5,179.99421 | 0.00000112  |
|       |       | 44  | 5220 | 5,219.99313 | 0.00000132  |
|       |       | 48  | 5240 | 5,239.99770 | 0.00000044  |
|       |       | 52  | 5260 | 5,260.00914 | -0.00000174 |
|       |       | 60  | 5300 | 5,299.99578 | 0.00000080  |
|       |       | 64  | 5320 | 5,319.99278 | 0.00000136  |
|       |       | 100 | 5500 | 5,499.99065 | 0.00000170  |
|       |       | 116 | 5580 | 5,580.00258 | -0.00000046 |
|       |       | 140 | 5700 | 5,700.00114 | -0.00000020 |
|       | 3.27V | 36  | 5180 | 5,180.00559 | -0.00000108 |
|       |       | 44  | 5220 | 5,220.00699 | -0.00000134 |
|       |       | 48  | 5240 | 5,239.99147 | 0.00000163  |
|       |       | 52  | 5260 | 5,260.00240 | -0.00000046 |
|       |       | 60  | 5300 | 5,300.00040 | -0.00000008 |
|       |       | 64  | 5320 | 5,319.99965 | 0.00000007  |
|       |       | 100 | 5500 | 5,500.00521 | -0.00000095 |
|       |       | 116 | 5580 | 5,579.99061 | 0.00000168  |
|       |       | 140 | 5700 | 5,699.99994 | 0.00000001  |

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|                |               |           |            |
|----------------|---------------|-----------|------------|
| Operation Mode | 802.11 n_HT40 | Test Date | 2018.09.13 |
| Temperature    | :23 °C        | Test By   | Gary       |
| Humidity       | :68 %         |           |            |

| Test Temp. | Test Voltage | Channel | Measured Frequency (MHz) | Spectrum Frequency (MHz) | ΔFrequency (MHz) |
|------------|--------------|---------|--------------------------|--------------------------|------------------|
| -10 °C     | 4.43V        | 38      | 5190                     | 5,190.00647              | -0.00000125      |
|            |              | 46      | 5230                     | 5,229.99344              | 0.00000125       |
|            |              | 54      | 5270                     | 5,270.00018              | -0.00000003      |
|            |              | 62      | 5310                     | 5,310.00555              | -0.00000105      |
|            |              | 102     | 5510                     | 5,510.00526              | -0.00000095      |
|            |              | 110     | 5550                     | 5,549.99151              | 0.00000153       |
|            |              | 134     | 5670                     | 5,670.00061              | -0.00000011      |
|            | 3.27V        | 38      | 5190                     | 5,190.00810              | -0.00000156      |
|            |              | 46      | 5230                     | 5,230.00995              | -0.00000190      |
|            |              | 54      | 5270                     | 5,270.00140              | -0.00000027      |
|            |              | 62      | 5310                     | 5,309.99253              | 0.00000141       |
|            |              | 102     | 5510                     | 5,509.99486              | 0.00000093       |
|            |              | 110     | 5550                     | 5,549.99227              | 0.00000139       |
|            |              | 134     | 5670                     | 5,670.00227              | -0.00000040      |

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|       |       |     |      |             |             |
|-------|-------|-----|------|-------------|-------------|
| 25 °C | 3.85V | 38  | 5190 | 5,190.00144 | -0.00000028 |
|       |       | 46  | 5230 | 5,230.00487 | -0.00000093 |
|       |       | 54  | 5270 | 5,269.99397 | 0.00000114  |
|       |       | 62  | 5310 | 5,309.99581 | 0.00000079  |
|       |       | 102 | 5510 | 5,509.99387 | 0.00000111  |
|       |       | 110 | 5550 | 5,550.00737 | -0.00000133 |
|       |       | 134 | 5670 | 5,670.00545 | -0.00000096 |
| 55 °C | 4.43V | 38  | 5190 | 5,190.00667 | -0.00000129 |
|       |       | 46  | 5230 | 5,229.99442 | 0.00000107  |
|       |       | 54  | 5270 | 5,269.99106 | 0.00000170  |
|       |       | 62  | 5310 | 5,310.00092 | -0.00000017 |
|       |       | 102 | 5510 | 5,509.99264 | 0.00000134  |
|       |       | 110 | 5550 | 5,549.99159 | 0.00000152  |
|       |       | 134 | 5670 | 5,669.99611 | 0.00000069  |
|       | 3.27V | 38  | 5190 | 5,190.00933 | -0.00000180 |
|       |       | 46  | 5230 | 5,229.99429 | 0.00000109  |
|       |       | 54  | 5270 | 5,269.99864 | 0.00000026  |
|       |       | 62  | 5310 | 5,309.99049 | 0.00000179  |
|       |       | 102 | 5510 | 5,510.00472 | -0.00000086 |
|       |       | 110 | 5550 | 5,549.99002 | 0.00000180  |
|       |       | 134 | 5670 | 5,670.00781 | -0.00000138 |

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|                |                 |           |            |
|----------------|-----------------|-----------|------------|
| Operation Mode | 802.11 ac_VHT80 | Test Date | 2018.09.13 |
| Temperature    | :23 °C          | Test By   | Gary       |
| Humidity       | :68 %           |           |            |

| Test Temp. | Test Voltage | Channel | Measured Frequency (MHz) | Spectrum Frequency (MHz) | ΔFrequency (MHz) |
|------------|--------------|---------|--------------------------|--------------------------|------------------|
| -10 °C     | 4.43V        | 42      | 5210                     | 5,209.99484              | 0.00000099       |
|            |              | 58      | 5290                     | 5,289.99036              | 0.00000182       |
|            |              | 106     | 5530                     | 5,530.00693              | -0.00000125      |
|            |              | 122     | 5610                     | 5,610.00512              | -0.00000091      |
|            | 3.27V        | 42      | 5210                     | 5,210.00141              | -0.00000027      |
|            |              | 58      | 5290                     | 5,290.00763              | -0.00000144      |
|            |              | 106     | 5530                     | 5,530.00666              | -0.00000120      |
|            |              | 122     | 5610                     | 5,609.99422              | 0.00000103       |
| 25 °C      | 3.85V        | 42      | 5210                     | 5,210.00596              | -0.00000114      |
|            |              | 58      | 5290                     | 5,289.99571              | 0.00000081       |
|            |              | 106     | 5530                     | 5,529.99181              | 0.00000148       |
|            |              | 122     | 5610                     | 5,610.00007              | -0.00000001      |
| 55 °C      | 4.43V        | 42      | 5210                     | 5,210.00220              | -0.00000042      |
|            |              | 58      | 5290                     | 5,290.00064              | -0.00000012      |
|            |              | 106     | 5530                     | 5,529.99565              | 0.00000079       |
|            |              | 122     | 5610                     | 5,610.00264              | -0.00000047      |
|            | 3.27V        | 42      | 5210                     | 5,210.00291              | -0.00000056      |
|            |              | 58      | 5290                     | 5,290.00886              | -0.00000167      |
|            |              | 106     | 5530                     | 5,530.00331              | -0.00000060      |
|            |              | 122     | 5610                     | 5,610.00619              | -0.00000110      |

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## 2 Minutes:

|                |          |           |            |
|----------------|----------|-----------|------------|
| Operation Mode | 802.11 a | Test Date | 2018.09.13 |
| Temperature    | :23 °C   | Test By   | Gary       |
| Humidity       | :68 %    |           |            |

| Test Temp. | Test Voltage | Channel | Measured Frequency (MHz) | Spectrum Frequency (MHz) | ΔFrequency (MHz) |
|------------|--------------|---------|--------------------------|--------------------------|------------------|
| -10 °C     | 4.43V        | 36      | 5180                     | 5,180.00136              | -0.00000026      |
|            |              | 44      | 5220                     | 5,220.00755              | -0.00000145      |
|            |              | 48      | 5240                     | 5,240.00619              | -0.00000118      |
|            |              | 52      | 5260                     | 5,260.00048              | -0.00000009      |
|            |              | 60      | 5300                     | 5,300.00311              | -0.00000059      |
|            |              | 64      | 5320                     | 5,319.99226              | 0.00000145       |
|            |              | 100     | 5500                     | 5,499.99526              | 0.00000086       |
|            |              | 116     | 5580                     | 5,580.00014              | -0.00000003      |
|            |              | 140     | 5700                     | 5,700.00934              | -0.00000164      |
|            | 3.27V        | 36      | 5180                     | 5,180.00173              | -0.00000033      |
|            |              | 44      | 5220                     | 5,219.99037              | 0.00000185       |
|            |              | 48      | 5240                     | 5,239.99012              | 0.00000188       |
|            |              | 52      | 5260                     | 5,260.00829              | -0.00000158      |
|            |              | 60      | 5300                     | 5,299.99264              | 0.00000139       |
|            |              | 64      | 5320                     | 5,320.00483              | -0.00000091      |
|            |              | 100     | 5500                     | 5,500.00564              | -0.00000103      |
|            |              | 116     | 5580                     | 5,579.99127              | 0.00000156       |
|            |              | 140     | 5700                     | 5,700.00806              | -0.00000141      |
| 25 °C      | 3.85V        | 36      | 5180                     | 5,179.99225              | 0.00000150       |
|            |              | 44      | 5220                     | 5,220.00159              | -0.00000030      |
|            |              | 48      | 5240                     | 5,239.99114              | 0.00000169       |
|            |              | 52      | 5260                     | 5,259.99359              | 0.00000122       |
|            |              | 60      | 5300                     | 5,300.00545              | -0.00000103      |
|            |              | 64      | 5320                     | 5,319.99262              | 0.00000139       |
|            |              | 100     | 5500                     | 5,499.99685              | 0.00000057       |
|            |              | 116     | 5580                     | 5,579.99712              | 0.00000052       |
|            |              | 140     | 5700                     | 5,699.99412              | 0.00000103       |

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|-------|-------|-----|------|-------------|-------------|
| 55 °C | 4.43V | 36  | 5180 | 5,179.99169 | 0.00000160  |
|       |       | 44  | 5220 | 5,219.99741 | 0.00000050  |
|       |       | 48  | 5240 | 5,239.99454 | 0.00000104  |
|       |       | 52  | 5260 | 5,259.99251 | 0.00000142  |
|       |       | 60  | 5300 | 5,300.00651 | -0.00000123 |
|       |       | 64  | 5320 | 5,320.00160 | -0.00000030 |
|       |       | 100 | 5500 | 5,500.00225 | -0.00000041 |
|       |       | 116 | 5580 | 5,579.99905 | 0.00000017  |
|       |       | 140 | 5700 | 5,700.00698 | -0.00000122 |
|       | 3.27V | 36  | 5180 | 5,179.99826 | 0.00000034  |
|       |       | 44  | 5220 | 5,220.00260 | -0.00000050 |
|       |       | 48  | 5240 | 5,239.99705 | 0.00000056  |
|       |       | 52  | 5260 | 5,259.99052 | 0.00000180  |
|       |       | 60  | 5300 | 5,300.00158 | -0.00000030 |
|       |       | 64  | 5320 | 5,320.00943 | -0.00000177 |
|       |       | 100 | 5500 | 5,499.99325 | 0.00000123  |
|       |       | 116 | 5580 | 5,579.99833 | 0.00000030  |
|       |       | 140 | 5700 | 5,699.99420 | 0.00000102  |

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|                |               |           |            |
|----------------|---------------|-----------|------------|
| Operation Mode | 802.11 n_HT40 | Test Date | 2018.09.13 |
| Temperature    | :23 °C        | Test By   | Gary       |
| Humidity       | :68 %         |           |            |

| Test Temp. | Test Voltage | Channel | Measured Frequency (MHz) | Spectrum Frequency (MHz) | ΔFrequency (MHz) |
|------------|--------------|---------|--------------------------|--------------------------|------------------|
| -10 °C     | 4.43V        | 38      | 5190                     | 5,190.00718              | -0.00000138      |
|            |              | 46      | 5230                     | 5,230.00851              | -0.00000163      |
|            |              | 54      | 5270                     | 5,269.99515              | 0.00000092       |
|            |              | 62      | 5310                     | 5,309.99716              | 0.00000053       |
|            |              | 102     | 5510                     | 5,510.00747              | -0.00000136      |
|            |              | 110     | 5550                     | 5,549.99683              | 0.00000057       |
|            |              | 134     | 5670                     | 5,670.00093              | -0.00000016      |
|            | 3.27V        | 38      | 5190                     | 5,189.99328              | 0.00000130       |
|            |              | 46      | 5230                     | 5,230.00275              | -0.00000053      |
|            |              | 54      | 5270                     | 5,269.99061              | 0.00000178       |
|            |              | 62      | 5310                     | 5,310.00525              | -0.00000099      |
|            |              | 102     | 5510                     | 5,510.00874              | -0.00000159      |
|            |              | 110     | 5550                     | 5,550.00846              | -0.00000152      |
|            |              | 134     | 5670                     | 5,670.00333              | -0.00000059      |

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|-------|-------|-----|------|-------------|-------------|
| 25 °C | 3.85V | 38  | 5190 | 5,189.99983 | 0.00000003  |
|       |       | 46  | 5230 | 5,230.00493 | -0.00000094 |
|       |       | 54  | 5270 | 5,269.99441 | 0.00000106  |
|       |       | 62  | 5310 | 5,310.00754 | -0.00000142 |
|       |       | 102 | 5510 | 5,510.00817 | -0.00000148 |
|       |       | 110 | 5550 | 5,550.00193 | -0.00000035 |
|       |       | 134 | 5670 | 5,670.00952 | -0.00000168 |
| 55 °C | 4.43V | 38  | 5190 | 5,189.99125 | 0.00000169  |
|       |       | 46  | 5230 | 5,229.99468 | 0.00000102  |
|       |       | 54  | 5270 | 5,269.99096 | 0.00000172  |
|       |       | 62  | 5310 | 5,309.99978 | 0.00000004  |
|       |       | 102 | 5510 | 5,510.00296 | -0.00000054 |
|       |       | 110 | 5550 | 5,550.00923 | -0.00000166 |
|       |       | 134 | 5670 | 5,669.99682 | 0.00000056  |
|       | 3.27V | 38  | 5190 | 5,189.99915 | 0.00000016  |
|       |       | 46  | 5230 | 5,230.00532 | -0.00000102 |
|       |       | 54  | 5270 | 5,269.99228 | 0.00000147  |
|       |       | 62  | 5310 | 5,310.00590 | -0.00000111 |
|       |       | 102 | 5510 | 5,509.99874 | 0.00000023  |
|       |       | 110 | 5550 | 5,549.99611 | 0.00000070  |
|       |       | 134 | 5670 | 5,670.00345 | -0.00000061 |

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|                |                 |           |            |
|----------------|-----------------|-----------|------------|
| Operation Mode | 802.11 ac_VHT80 | Test Date | 2018.09.13 |
| Temperature    | :23 °C          | Test By   | Gary       |
| Humidity       | :68 %           |           |            |

| Test Temp. | Test Voltage | Channel | Measured Frequency (MHz) | Spectrum Frequency (MHz) | ΔFrequency (MHz) |
|------------|--------------|---------|--------------------------|--------------------------|------------------|
| -10 °C     | 4.43V        | 42      | 5210                     | 5,210.00355              | -0.00000068      |
|            |              | 58      | 5290                     | 5,289.99358              | 0.00000121       |
|            |              | 106     | 5530                     | 5,530.00334              | -0.00000060      |
|            |              | 122     | 5610                     | 5,610.00338              | -0.00000060      |
|            | 3.27V        | 42      | 5210                     | 5,210.00074              | -0.00000014      |
|            |              | 58      | 5290                     | 5,290.00526              | -0.00000100      |
|            |              | 106     | 5530                     | 5,530.00582              | -0.00000105      |
|            |              | 122     | 5610                     | 5,610.00027              | -0.00000005      |
| 25 °C      | 3.85V        | 42      | 5210                     | 5,210.00132              | -0.00000025      |
|            |              | 58      | 5290                     | 5,289.99604              | 0.00000075       |
|            |              | 106     | 5530                     | 5,530.00631              | -0.00000114      |
|            |              | 122     | 5610                     | 5,610.00550              | -0.00000098      |
| 55 °C      | 4.43V        | 42      | 5210                     | 5,210.00620              | -0.00000119      |
|            |              | 58      | 5290                     | 5,289.99513              | 0.00000092       |
|            |              | 106     | 5530                     | 5,529.99195              | 0.00000146       |
|            |              | 122     | 5610                     | 5,609.99825              | 0.00000031       |
|            | 3.27V        | 42      | 5210                     | 5,210.00753              | -0.00000144      |
|            |              | 58      | 5290                     | 5,289.99293              | 0.00000134       |
|            |              | 106     | 5530                     | 5,529.99238              | 0.00000138       |
|            |              | 122     | 5610                     | 5,610.00102              | -0.00000018      |

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## 5 Minutes:

|                |          |           |            |
|----------------|----------|-----------|------------|
| Operation Mode | 802.11 a | Test Date | 2018.09.13 |
| Temperature    | :23 °C   | Test By   | Gary       |
| Humidity       | :68 %    |           |            |

| Test Temp. | Test Voltage | Channel | Measured Frequency (MHz) | Spectrum Frequency (MHz) | ΔFrequency (MHz) |
|------------|--------------|---------|--------------------------|--------------------------|------------------|
| -10 °C     | 4.43V        | 36      | 5180                     | 5,180.00913              | -0.00000176      |
|            |              | 44      | 5220                     | 5,220.00723              | -0.00000138      |
|            |              | 48      | 5240                     | 5,239.99360              | 0.00000122       |
|            |              | 52      | 5260                     | 5,260.00874              | -0.00000166      |
|            |              | 60      | 5300                     | 5,300.00502              | -0.00000095      |
|            |              | 64      | 5320                     | 5,319.99370              | 0.00000118       |
|            |              | 100     | 5500                     | 5,500.00580              | -0.00000105      |
|            |              | 116     | 5580                     | 5,580.00876              | -0.00000157      |
|            |              | 140     | 5700                     | 5,699.99117              | 0.00000155       |
|            | 3.27V        | 36      | 5180                     | 5,179.99207              | 0.00000153       |
|            |              | 44      | 5220                     | 5,220.00920              | -0.00000176      |
|            |              | 48      | 5240                     | 5,239.99025              | 0.00000186       |
|            |              | 52      | 5260                     | 5,259.99897              | 0.00000020       |
|            |              | 60      | 5300                     | 5,300.00304              | -0.00000057      |
|            |              | 64      | 5320                     | 5,320.00224              | -0.00000042      |
|            |              | 100     | 5500                     | 5,499.99601              | 0.00000073       |
|            |              | 116     | 5580                     | 5,580.00609              | -0.00000109      |
|            |              | 140     | 5700                     | 5,699.99279              | 0.00000126       |

|       |       |     |      |             |             |
|-------|-------|-----|------|-------------|-------------|
| 25 °C | 3.85V | 36  | 5180 | 5,179.99057 | 0.00000182  |
|       |       | 44  | 5220 | 5,219.99870 | 0.00000025  |
|       |       | 48  | 5240 | 5,240.00887 | -0.00000169 |
|       |       | 52  | 5260 | 5,260.00950 | -0.00000181 |
|       |       | 60  | 5300 | 5,300.00770 | -0.00000145 |
|       |       | 64  | 5320 | 5,320.00232 | -0.00000044 |
|       |       | 100 | 5500 | 5,499.99492 | 0.00000092  |
|       |       | 116 | 5580 | 5,579.99993 | 0.00000001  |
|       |       | 140 | 5700 | 5,699.99140 | 0.00000151  |

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|       |       |     |      |             |             |
|-------|-------|-----|------|-------------|-------------|
| 55 °C | 4.43V | 36  | 5180 | 5,179.99572 | 0.00000083  |
|       |       | 44  | 5220 | 5,219.99322 | 0.00000130  |
|       |       | 48  | 5240 | 5,240.00389 | -0.00000074 |
|       |       | 52  | 5260 | 5,260.00455 | -0.00000086 |
|       |       | 60  | 5300 | 5,299.99020 | 0.00000185  |
|       |       | 64  | 5320 | 5,320.00516 | -0.00000097 |
|       |       | 100 | 5500 | 5,499.99911 | 0.00000016  |
|       |       | 116 | 5580 | 5,579.99829 | 0.00000031  |
|       |       | 140 | 5700 | 5,699.99324 | 0.00000119  |
|       | 3.27V | 36  | 5180 | 5,179.99295 | 0.00000136  |
|       |       | 44  | 5220 | 5,219.99250 | 0.00000144  |
|       |       | 48  | 5240 | 5,240.00227 | -0.00000043 |
|       |       | 52  | 5260 | 5,259.99230 | 0.00000146  |
|       |       | 60  | 5300 | 5,299.99890 | 0.00000021  |
|       |       | 64  | 5320 | 5,320.00880 | -0.00000165 |
|       |       | 100 | 5500 | 5,500.00325 | -0.00000059 |
|       |       | 116 | 5580 | 5,579.99211 | 0.00000141  |
|       |       | 140 | 5700 | 5,700.00131 | -0.00000023 |

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|                |               |           |            |
|----------------|---------------|-----------|------------|
| Operation Mode | 802.11 n_HT40 | Test Date | 2018.09.13 |
| Temperature    | :23 °C        | Test By   | Gary       |
| Humidity       | :68 %         |           |            |

| Test Temp. | Test Voltage | Channel | Measured Frequency (MHz) | Spectrum Frequency (MHz) | ΔFrequency (MHz) |
|------------|--------------|---------|--------------------------|--------------------------|------------------|
| -10 °C     | 4.43V        | 38      | 5190                     | 5,189.99489              | 0.00000099       |
|            |              | 46      | 5230                     | 5,230.00839              | -0.00000160      |
|            |              | 54      | 5270                     | 5,269.99753              | 0.00000047       |
|            |              | 62      | 5310                     | 5,309.99535              | 0.00000088       |
|            |              | 102     | 5510                     | 5,510.00879              | -0.00000160      |
|            |              | 110     | 5550                     | 5,549.99794              | 0.00000037       |
|            |              | 134     | 5670                     | 5,669.99588              | 0.00000073       |
|            | 3.27V        | 38      | 5190                     | 5,189.99759              | 0.00000046       |
|            |              | 46      | 5230                     | 5,229.99463              | 0.00000103       |
|            |              | 54      | 5270                     | 5,269.99195              | 0.00000153       |
|            |              | 62      | 5310                     | 5,309.99435              | 0.00000106       |
|            |              | 102     | 5510                     | 5,510.00310              | -0.00000056      |
|            |              | 110     | 5550                     | 5,550.00193              | -0.00000035      |
|            |              | 134     | 5670                     | 5,669.99580              | 0.00000074       |

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|       |       |     |      |             |             |
|-------|-------|-----|------|-------------|-------------|
| 25 °C | 3.85V | 38  | 5190 | 5,190.00030 | -0.00000006 |
|       |       | 46  | 5230 | 5,229.99873 | 0.00000024  |
|       |       | 54  | 5270 | 5,270.00388 | -0.00000074 |
|       |       | 62  | 5310 | 5,310.00962 | -0.00000181 |
|       |       | 102 | 5510 | 5,510.00231 | -0.00000042 |
|       |       | 110 | 5550 | 5,549.99626 | 0.00000067  |
|       |       | 134 | 5670 | 5,670.00621 | -0.00000110 |
| 55 °C | 4.43V | 38  | 5190 | 5,189.99779 | 0.00000043  |
|       |       | 46  | 5230 | 5,230.00353 | -0.00000067 |
|       |       | 54  | 5270 | 5,270.00125 | -0.00000024 |
|       |       | 62  | 5310 | 5,309.99571 | 0.00000081  |
|       |       | 102 | 5510 | 5,509.99826 | 0.00000032  |
|       |       | 110 | 5550 | 5,550.00021 | -0.00000004 |
|       |       | 134 | 5670 | 5,669.99159 | 0.00000148  |
|       | 3.27V | 38  | 5190 | 5,189.99311 | 0.00000133  |
|       |       | 46  | 5230 | 5,230.00847 | -0.00000162 |
|       |       | 54  | 5270 | 5,270.00336 | -0.00000064 |
|       |       | 62  | 5310 | 5,309.99104 | 0.00000169  |
|       |       | 102 | 5510 | 5,510.00756 | -0.00000137 |
|       |       | 110 | 5550 | 5,550.00839 | -0.00000151 |
|       |       | 134 | 5670 | 5,669.99331 | 0.00000118  |

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|                |                 |           |            |
|----------------|-----------------|-----------|------------|
| Operation Mode | 802.11 ac_VHT80 | Test Date | 2018.09.13 |
| Temperature    | :23 °C          | Test By   | Gary       |
| Humidity       | :68 %           |           |            |

| Test Temp. | Test Voltage | Channel | Measured Frequency (MHz) | Spectrum Frequency (MHz) | ΔFrequency (MHz) |
|------------|--------------|---------|--------------------------|--------------------------|------------------|
| -10 °C     | 4.43V        | 42      | 5210                     | 5,210.00698              | -0.00000134      |
|            |              | 58      | 5290                     | 5,290.00945              | -0.00000179      |
|            |              | 106     | 5530                     | 5,530.00798              | -0.00000144      |
|            |              | 122     | 5610                     | 5,609.99910              | 0.00000016       |
|            | 3.27V        | 42      | 5210                     | 5,210.00221              | -0.00000042      |
|            |              | 58      | 5290                     | 5,289.99158              | 0.00000159       |
|            |              | 106     | 5530                     | 5,530.00004              | -0.00000001      |
|            |              | 122     | 5610                     | 5,610.00623              | -0.00000111      |
| 25 °C      | 3.85V        | 42      | 5210                     | 5,209.99215              | 0.00000151       |
|            |              | 58      | 5290                     | 5,290.00714              | -0.00000135      |
|            |              | 106     | 5530                     | 5,530.00940              | -0.00000170      |
|            |              | 122     | 5610                     | 5,609.99444              | 0.00000099       |
| 55 °C      | 4.43V        | 42      | 5210                     | 5,210.00683              | -0.00000131      |
|            |              | 58      | 5290                     | 5,289.99525              | 0.00000090       |
|            |              | 106     | 5530                     | 5,529.99291              | 0.00000128       |
|            |              | 122     | 5610                     | 5,610.00651              | -0.00000116      |
|            | 3.27V        | 42      | 5210                     | 5,210.00319              | -0.00000061      |
|            |              | 58      | 5290                     | 5,289.99339              | 0.00000125       |
|            |              | 106     | 5530                     | 5,530.00259              | -0.00000047      |
|            |              | 122     | 5610                     | 5,609.99158              | 0.00000150       |

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# 10 Minutes:

|                |          |           |            |
|----------------|----------|-----------|------------|
| Operation Mode | 802.11 a | Test Date | 2018.09.13 |
| Temperature    | :23 °C   | Test By   | Gary       |
| Humidity       | :68 %    |           |            |

| Test Temp. | Test Voltage | Channel | Measured Frequency (MHz) | Spectrum Frequency (MHz) | ΔFrequency (MHz) |
|------------|--------------|---------|--------------------------|--------------------------|------------------|
| -10 °C     | 4.43V        | 36      | 5180                     | 5,179.99706              | 0.00000057       |
|            |              | 44      | 5220                     | 5,220.00135              | -0.00000026      |
|            |              | 48      | 5240                     | 5,239.99026              | 0.00000186       |
|            |              | 52      | 5260                     | 5,259.99559              | 0.00000084       |
|            |              | 60      | 5300                     | 5,299.99342              | 0.00000124       |
|            |              | 64      | 5320                     | 5,320.00713              | -0.00000134      |
|            |              | 100     | 5500                     | 5,500.00616              | -0.00000112      |
|            |              | 116     | 5580                     | 5,580.00011              | -0.00000002      |
|            |              | 140     | 5700                     | 5,700.00262              | -0.00000046      |
|            | 3.27V        | 36      | 5180                     | 5,180.00148              | -0.00000029      |
|            |              | 44      | 5220                     | 5,220.00060              | -0.00000011      |
|            |              | 48      | 5240                     | 5,240.00783              | -0.00000149      |
|            |              | 52      | 5260                     | 5,259.99038              | 0.00000183       |
|            |              | 60      | 5300                     | 5,300.00847              | -0.00000160      |
|            |              | 64      | 5320                     | 5,319.99807              | 0.00000036       |
|            |              | 100     | 5500                     | 5,500.00871              | -0.00000158      |
|            |              | 116     | 5580                     | 5,580.00932              | -0.00000167      |
|            |              | 140     | 5700                     | 5,700.00234              | -0.00000041      |

|       |       |     |      |             |             |
|-------|-------|-----|------|-------------|-------------|
| 25 °C | 3.85V | 36  | 5180 | 5,180.00767 | -0.00000148 |
|       |       | 44  | 5220 | 5,219.99531 | 0.00000090  |
|       |       | 48  | 5240 | 5,239.99779 | 0.00000042  |
|       |       | 52  | 5260 | 5,259.99015 | 0.00000187  |
|       |       | 60  | 5300 | 5,300.00877 | -0.00000165 |
|       |       | 64  | 5320 | 5,320.00813 | -0.00000153 |
|       |       | 100 | 5500 | 5,500.00728 | -0.00000132 |
|       |       | 116 | 5580 | 5,579.99395 | 0.00000108  |
|       |       | 140 | 5700 | 5,700.00890 | -0.00000156 |

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|       |       |     |      |             |             |
|-------|-------|-----|------|-------------|-------------|
| 55 °C | 4.43V | 36  | 5180 | 5,179.99700 | 0.00000058  |
|       |       | 44  | 5220 | 5,220.00002 | 0.00000000  |
|       |       | 48  | 5240 | 5,239.99621 | 0.00000072  |
|       |       | 52  | 5260 | 5,260.00498 | -0.00000095 |
|       |       | 60  | 5300 | 5,299.99248 | 0.00000142  |
|       |       | 64  | 5320 | 5,320.00369 | -0.00000069 |
|       |       | 100 | 5500 | 5,500.00889 | -0.00000162 |
|       |       | 116 | 5580 | 5,579.99368 | 0.00000113  |
|       |       | 140 | 5700 | 5,699.99385 | 0.00000108  |
|       | 3.27V | 36  | 5180 | 5,180.00441 | -0.00000085 |
|       |       | 44  | 5220 | 5,220.00199 | -0.00000038 |
|       |       | 48  | 5240 | 5,240.00637 | -0.00000122 |
|       |       | 52  | 5260 | 5,260.00870 | -0.00000165 |
|       |       | 60  | 5300 | 5,300.00528 | -0.00000100 |
|       |       | 64  | 5320 | 5,319.99520 | 0.00000090  |
|       |       | 100 | 5500 | 5,500.00628 | -0.00000114 |
|       |       | 116 | 5580 | 5,580.00497 | -0.00000089 |
|       |       | 140 | 5700 | 5,699.99286 | 0.00000125  |

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|                |               |           |            |
|----------------|---------------|-----------|------------|
| Operation Mode | 802.11 n_HT40 | Test Date | 2018.09.13 |
| Temperature    | :23 °C        | Test By   | Gary       |
| Humidity       | :68 %         |           |            |

| Test Temp. | Test Voltage | Channel | Measured Frequency (MHz) | Spectrum Frequency (MHz) | ΔFrequency (MHz) |
|------------|--------------|---------|--------------------------|--------------------------|------------------|
| -10 °C     | 4.43V        | 38      | 5190                     | 5,190.00397              | -0.00000077      |
|            |              | 46      | 5230                     | 5,230.00901              | -0.00000172      |
|            |              | 54      | 5270                     | 5,269.99987              | 0.00000003       |
|            |              | 62      | 5310                     | 5,309.99351              | 0.00000122       |
|            |              | 102     | 5510                     | 5,509.99976              | 0.00000004       |
|            |              | 110     | 5550                     | 5,550.00600              | -0.00000108      |
|            |              | 134     | 5670                     | 5,670.00540              | -0.00000095      |
|            | 3.27V        | 38      | 5190                     | 5,190.00592              | -0.00000114      |
|            |              | 46      | 5230                     | 5,230.00888              | -0.00000170      |
|            |              | 54      | 5270                     | 5,269.99249              | 0.00000143       |
|            |              | 62      | 5310                     | 5,310.00662              | -0.00000125      |
|            |              | 102     | 5510                     | 5,510.00522              | -0.00000095      |
|            |              | 110     | 5550                     | 5,549.99206              | 0.00000143       |
|            |              | 134     | 5670                     | 5,669.99856              | 0.00000025       |

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|       |       |     |      |             |             |
|-------|-------|-----|------|-------------|-------------|
| 25 °C | 3.85V | 38  | 5190 | 5,190.00192 | -0.00000037 |
|       |       | 46  | 5230 | 5,229.99193 | 0.00000154  |
|       |       | 54  | 5270 | 5,270.00602 | -0.00000114 |
|       |       | 62  | 5310 | 5,309.99238 | 0.00000144  |
|       |       | 102 | 5510 | 5,510.00591 | -0.00000107 |
|       |       | 110 | 5550 | 5,550.00273 | -0.00000049 |
|       |       | 134 | 5670 | 5,669.99416 | 0.00000103  |
| 55 °C | 4.43V | 38  | 5190 | 5,190.00105 | -0.00000020 |
|       |       | 46  | 5230 | 5,229.99844 | 0.00000030  |
|       |       | 54  | 5270 | 5,270.00700 | -0.00000133 |
|       |       | 62  | 5310 | 5,310.00337 | -0.00000063 |
|       |       | 102 | 5510 | 5,510.00391 | -0.00000071 |
|       |       | 110 | 5550 | 5,550.00747 | -0.00000135 |
|       |       | 134 | 5670 | 5,670.00670 | -0.00000118 |
|       | 3.27V | 38  | 5190 | 5,189.99525 | 0.00000091  |
|       |       | 46  | 5230 | 5,230.00312 | -0.00000060 |
|       |       | 54  | 5270 | 5,269.99905 | 0.00000018  |
|       |       | 62  | 5310 | 5,309.99795 | 0.00000039  |
|       |       | 102 | 5510 | 5,509.99343 | 0.00000119  |
|       |       | 110 | 5550 | 5,549.99012 | 0.00000178  |
|       |       | 134 | 5670 | 5,670.00607 | -0.00000107 |

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|                |                 |           |            |
|----------------|-----------------|-----------|------------|
| Operation Mode | 802.11 ac_VHT80 | Test Date | 2018.09.13 |
| Temperature    | :23 °C          | Test By   | Gary       |
| Humidity       | :68 %           |           |            |

| Test Temp. | Test Voltage | Channel | Measured Frequency (MHz) | Spectrum Frequency (MHz) | ΔFrequency (MHz) |
|------------|--------------|---------|--------------------------|--------------------------|------------------|
| -10 °C     | 4.43V        | 42      | 5210                     | 5,209.99414              | 0.00000112       |
|            |              | 58      | 5290                     | 5,290.00462              | -0.00000087      |
|            |              | 106     | 5530                     | 5,530.00839              | -0.00000152      |
|            |              | 122     | 5610                     | 5,610.00046              | -0.00000008      |
|            | 3.27V        | 42      | 5210                     | 5,210.00185              | -0.00000035      |
|            |              | 58      | 5290                     | 5,289.99560              | 0.00000083       |
|            |              | 106     | 5530                     | 5,530.00347              | -0.00000063      |
|            |              | 122     | 5610                     | 5,609.99596              | 0.00000072       |
| 25 °C      | 3.85V        | 42      | 5210                     | 5,209.99130              | 0.00000167       |
|            |              | 58      | 5290                     | 5,290.00281              | -0.00000053      |
|            |              | 106     | 5530                     | 5,530.00273              | -0.00000049      |
|            |              | 122     | 5610                     | 5,609.99970              | 0.00000005       |
| 55 °C      | 4.43V        | 42      | 5210                     | 5,210.00305              | -0.00000058      |
|            |              | 58      | 5290                     | 5,289.99016              | 0.00000186       |
|            |              | 106     | 5530                     | 5,529.99146              | 0.00000154       |
|            |              | 122     | 5610                     | 5,609.99399              | 0.00000107       |
|            | 3.27V        | 42      | 5210                     | 5,210.00893              | -0.00000171      |
|            |              | 58      | 5290                     | 5,289.99039              | 0.00000182       |
|            |              | 106     | 5530                     | 5,529.99953              | 0.00000008       |
|            |              | 122     | 5610                     | 5,610.00355              | -0.00000063      |

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## 14. ANTENNA REQUIREMENT

### 14.1 Standard Applicable

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

According to §15.407, 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.

### 14.2 Antenna Connected Construction

The antenna is designed as permanently attached and no consideration of replacement. Please see EUT photo for details.

*~ End of Report ~*

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