



# Test Report

## FCC Part15 Subpart E

Product Name : Wireless Access Point

Model No. : AP305C、 AP305CX

FCC ID : QXO-AP305C

Applicant : Extreme Networks, Inc

Address : 6480 Via Del Oro, San Jose, CA  
95119

Date of Receipt : Jun. 27, 2019

Test Date : Jun. 28, 2019 ~ Aug. 08, 2019

Issued Date : Oct. 25, 2019

Report No. : 1962097R-RF-US-P09V01

Report Version : V1.1

The test results presented in this report relate only to the object tested.

The measurement result is considered in conformance with the requirement if it is within the prescribed limit, It is not necessary to account the uncertainty associated with the measurement result, unless the specification, standard or customer have special requirements

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# Test Report Certification

Issued Date : Oct. 25, 2019

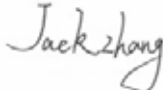
Report No. : 1962097R-RF-US-P09V01



Product Name : Wireless Access Point  
Applicant : Extreme Networks, Inc  
Address : 6480 Via Del Oro, San Jose, CA 95119  
Manufacturer : Extreme Networks, Inc  
Address : 6480 Via Del Oro, San Jose, CA 95119  
Model No. : AP305C、AP305CX  
Brand : Extreme Networks  
FCC ID : QXO-AP305C  
EUT Voltage : POE 48V  
Test Voltage : AC 120V/60Hz  
Applicable Standard : FCC CFR Title 47 Part 15 Subpart E  
ANSI C63.10:2013;  
789033 D02 General UNII Test Procedures New Rules  
v02r01  
KDB 662911 D01 Multiple Transmitter Output v02r01  
Test Result : Complied  
Performed Location : DEKRA Testing and Certification (Suzhou) Co., Ltd.  
No.99 Hongye Rd., Suzhou Industrial Park, Suzhou, 215006,  
Jiangsu, China  
TEL: +86-512-6251-5088 / FAX: +86-512-6251-5098  
FCC Designation Number: CN1199;

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## History of This Test Report

| REPORT NO.            | VERSION | DESCRIPTION                                     | ISSUED DATE   |
|-----------------------|---------|-------------------------------------------------|---------------|
| 1962097R-RF-US-P09V01 | V1.0    | Initial Issued Report                           | Aug. 23, 2019 |
| 1962097R-RF-US-P09V01 | V1.1    | P159-166, updated frequency stability test data | Oct. 25, 2019 |
|                       |         |                                                 |               |
|                       |         |                                                 |               |

## 1. General Information

### 1.1. EUT Description

|                                     |                                                |                  |                                     |                            |                                     |                 |
|-------------------------------------|------------------------------------------------|------------------|-------------------------------------|----------------------------|-------------------------------------|-----------------|
| Product Name                        | Wireless Access Point                          |                  |                                     |                            |                                     |                 |
| Model No.                           | AP305C、AP305CX                                 |                  |                                     |                            |                                     |                 |
| EUT Voltage                         | PoE48V                                         |                  |                                     |                            |                                     |                 |
| Type of Modulation                  | OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM |                  |                                     |                            |                                     |                 |
| Data Rate                           | 802.11a: 6/9/12/18/24/36/48/54Mbps             |                  |                                     |                            |                                     |                 |
|                                     | 802.11n: up to 300Mbps                         |                  |                                     |                            |                                     |                 |
|                                     | 802.11ac: up to 866.6Mbps                      |                  |                                     |                            |                                     |                 |
|                                     | 802.11ax: up to 1.2Gbps                        |                  |                                     |                            |                                     |                 |
| Channel Control                     | Auto                                           |                  |                                     |                            |                                     |                 |
| Transmit modes                      | <input checked="" type="checkbox"/>            | 802.11a          | <input checked="" type="checkbox"/> | 802.11n(20MHz)             | <input checked="" type="checkbox"/> | 802.11n(40MHz)  |
|                                     | <input checked="" type="checkbox"/>            | 802.11ac(20MHz)  | <input checked="" type="checkbox"/> | 802.11ac(40MHz)            | <input checked="" type="checkbox"/> | 802.11ac(80MHz) |
|                                     | <input checked="" type="checkbox"/>            | 802.11ax(20MHz)  | <input checked="" type="checkbox"/> | 802.11ax(40MHz)            | <input checked="" type="checkbox"/> | 802.11ax(80MHz) |
|                                     | <input type="checkbox"/>                       | 802.11ax(160MHz) |                                     |                            |                                     |                 |
| Support Bands                       | <input checked="" type="checkbox"/>            | 5150MHz~5250MHz  | <input type="checkbox"/>            | Outdoor AP                 |                                     |                 |
|                                     |                                                |                  | <input checked="" type="checkbox"/> | Indoor AP                  |                                     |                 |
|                                     |                                                |                  | <input type="checkbox"/>            | Fixed point-to-point AP    |                                     |                 |
|                                     |                                                |                  | <input type="checkbox"/>            | Mobile and Portable Client |                                     |                 |
|                                     | <input type="checkbox"/>                       | 5250MHz~5350MHz  |                                     |                            |                                     |                 |
|                                     | <input type="checkbox"/>                       | 5470MHz~5725MHz  | <input type="checkbox"/>            | With TDWR Channels         |                                     |                 |
|                                     |                                                |                  | <input type="checkbox"/>            | Without TDWR Channels      |                                     |                 |
| <input checked="" type="checkbox"/> | 5725MHz~5850MHz                                |                  |                                     |                            |                                     |                 |

Note1: AP305C and AP305CX are the same except the antenna type and antenna gain, due to the same power setting of AP305C and AP305CX, the conducted test item data is the same.

2: The device contains two 5GHz modules, and called eth1 and eth2, eth2 can work separately and eth1 can only transmit with eth2 which at 5150~5250MHz and eth2 work at 5725~5850MHz. So eth2 test all the frequency bands and eth1 only test 5150~5250MHz.

## 1.2. Antenna information

### AP305C:

|                                     |                                     |                                     |                                     |                                                   |                                    |
|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|---------------------------------------------------|------------------------------------|
| Antenna Model No.                   | N/A                                 |                                     |                                     |                                                   |                                    |
| Antenna Manufacturer                | N/A                                 |                                     |                                     |                                                   |                                    |
| Antenna Delivery                    | <input checked="" type="checkbox"/> | 1*TX+1*RX                           | <input checked="" type="checkbox"/> | 2*TX+2*RX                                         | <input type="checkbox"/> 3*TX+3*RX |
| Antenna Technology                  | <input checked="" type="checkbox"/> | SISO                                |                                     |                                                   |                                    |
|                                     | <input checked="" type="checkbox"/> | MIMO                                | <input type="checkbox"/>            | Basic methodology                                 |                                    |
|                                     |                                     |                                     | <input type="checkbox"/>            | Sectorized antenna systems                        |                                    |
|                                     |                                     |                                     | <input type="checkbox"/>            | Cross-polarized antennas                          |                                    |
|                                     |                                     |                                     | <input type="checkbox"/>            | Unequal antenna gains, with equal transmit powers |                                    |
|                                     |                                     |                                     | <input checked="" type="checkbox"/> | Spatial Multiplexing                              |                                    |
|                                     |                                     |                                     | <input checked="" type="checkbox"/> | Cyclic Delay Diversity (CDD)                      |                                    |
| Antenna Type                        | PIFA                                |                                     |                                     |                                                   |                                    |
| Antenna Gain                        |                                     |                                     |                                     |                                                   |                                    |
| Antenna Technology                  |                                     |                                     | Ant Gain(eth1)<br>(dBi)             |                                                   |                                    |
| <input checked="" type="checkbox"/> | SISO                                | <input checked="" type="checkbox"/> | Ant1                                | 3.97                                              |                                    |
|                                     |                                     | <input checked="" type="checkbox"/> | Ant2                                | 3.45                                              |                                    |
| <input checked="" type="checkbox"/> | CDD                                 |                                     | 3.97dBi for Power; 6.97dBi for PSD  |                                                   |                                    |
| <input checked="" type="checkbox"/> | Beam-forming                        |                                     | 6.97dBi for Power; 6.97dBi for PSD  |                                                   |                                    |
| Antenna Technology                  |                                     |                                     | Ant Gain(eth2)<br>(dBi)             |                                                   |                                    |
| <input checked="" type="checkbox"/> | SISO                                | <input checked="" type="checkbox"/> | Ant3                                | 3.75                                              |                                    |
|                                     |                                     | <input checked="" type="checkbox"/> | Ant4                                | 2.95                                              |                                    |
| <input checked="" type="checkbox"/> | CDD                                 |                                     | 3.75dBi for Power; 6.75dBi for PSD  |                                                   |                                    |
| <input checked="" type="checkbox"/> | Beam-forming                        |                                     | 6.75dBi for Power; 6.75dBi for PSD  |                                                   |                                    |



**AP305CX:**

|                                     |                                     |                                          |                                     |                                                   |                                    |
|-------------------------------------|-------------------------------------|------------------------------------------|-------------------------------------|---------------------------------------------------|------------------------------------|
| Antenna Model No.                   | N/A                                 |                                          |                                     |                                                   |                                    |
| Antenna Manufacturer                | N/A                                 |                                          |                                     |                                                   |                                    |
| Antenna Delivery                    | <input checked="" type="checkbox"/> | 1*TX+1*RX                                | <input checked="" type="checkbox"/> | 2*TX+2*RX                                         | <input type="checkbox"/> 3*TX+3*RX |
| Antenna Technology                  | <input checked="" type="checkbox"/> | SISO                                     |                                     |                                                   |                                    |
|                                     | <input checked="" type="checkbox"/> | MIMO                                     | <input type="checkbox"/>            | Basic methodology                                 |                                    |
|                                     |                                     |                                          | <input type="checkbox"/>            | Sectorized antenna systems                        |                                    |
|                                     |                                     |                                          | <input type="checkbox"/>            | Cross-polarized antennas                          |                                    |
|                                     |                                     |                                          | <input type="checkbox"/>            | Unequal antenna gains, with equal transmit powers |                                    |
|                                     |                                     |                                          | <input checked="" type="checkbox"/> | Spatial Multiplexing                              |                                    |
|                                     |                                     |                                          | <input checked="" type="checkbox"/> | Cyclic Delay Diversity (CDD)                      |                                    |
| Antenna Type                        | Dipole                              |                                          |                                     |                                                   |                                    |
| Antenna Gain                        |                                     |                                          |                                     |                                                   |                                    |
| Antenna Technology                  |                                     |                                          | Ant Gain(eth1)<br>(dBi)             |                                                   |                                    |
| <input checked="" type="checkbox"/> | SISO                                | <input checked="" type="checkbox"/> Ant1 | 2.51                                |                                                   |                                    |
|                                     |                                     | <input checked="" type="checkbox"/> Ant2 | 2.67                                |                                                   |                                    |
| <input checked="" type="checkbox"/> | CDD                                 |                                          | 2.67dBi for Power; 5.67dBi for PSD  |                                                   |                                    |
| <input checked="" type="checkbox"/> | Beam-forming                        |                                          | 5.67dBi for Power; 5.67dBi for PSD  |                                                   |                                    |
| Antenna Technology                  |                                     |                                          | Ant Gain(eth2)<br>(dBi)             |                                                   |                                    |
| <input checked="" type="checkbox"/> | SISO                                | <input checked="" type="checkbox"/> Ant3 | 4.00                                |                                                   |                                    |
|                                     |                                     | <input checked="" type="checkbox"/> Ant4 | 4.37                                |                                                   |                                    |
| <input checked="" type="checkbox"/> | CDD                                 |                                          | 4.37dBi for Power; 7.37dBi for PSD  |                                                   |                                    |
| <input checked="" type="checkbox"/> | Beam-forming                        |                                          | 7.37dBi for Power; 7.37dBi for PSD  |                                                   |                                    |

### 1.3. Working Frequency of Each Channel:

| 802.11a/n/ac/ax(20MHz) Working Frequency of Each Channel: |           |         |           |         |           |         |           |
|-----------------------------------------------------------|-----------|---------|-----------|---------|-----------|---------|-----------|
| Channel                                                   | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 36                                                        | 5180 MHz  | 40      | 5200 MHz  | 44      | 5220 MHz  | 48      | 5240 MHz  |
| 149                                                       | 5745 MHz  | 153     | 5765 MHz  | 157     | 5785 MHz  | 161     | 5805 MHz  |
| 165                                                       | 5825MHz   | N/A     | N/A       | N/A     | N/A       | N/A     | N/A       |
| 802.11n/ac/ax(40MHz) Working Frequency of Each Channel:   |           |         |           |         |           |         |           |
| Channel                                                   | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 38                                                        | 5190 MHz  | 46      | 5230 MHz  | 151     | 5755 MHz  | 159     | 5795 MHz  |
| 802.11ac/ax(80MHz) Working Frequency of Each Channel:     |           |         |           |         |           |         |           |
| Channel                                                   | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 42                                                        | 5210 MHz  | 155     | 5775 MHz  | N/A     | N/A       | N/A     | N/A       |

#### 1.4. Mode of Operation

DEKRA Testing and Certification (Suzhou) Co., Ltd. has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

| Test Mode                           |
|-------------------------------------|
| Mode 1: Transmit by 802.11a         |
| Mode 2: Transmit by 802.11n(20MHz)  |
| Mode 3: Transmit by 802.11n(40MHz)  |
| Mode 4: Transmit by 802.11ac(20MHz) |
| Mode 5: Transmit by 802.11ac(40MHz) |
| Mode 6: Transmit by 802.11ac(80MHz) |
| Mode 7: Transmit by 802.11ax(20MHz) |
| Mode 8: Transmit by 802.11ax(40MHz) |
| Mode 9: Transmit by 802.11ax(80MHz) |

Note 1: Regards to the frequency band operation: the lowest, middle and highest frequency channel were selected to perform the test, then shown on this report.

Note 2: For portable device, radiated tests was verified over X, Y, Z axis, and shown the worst case on this report.

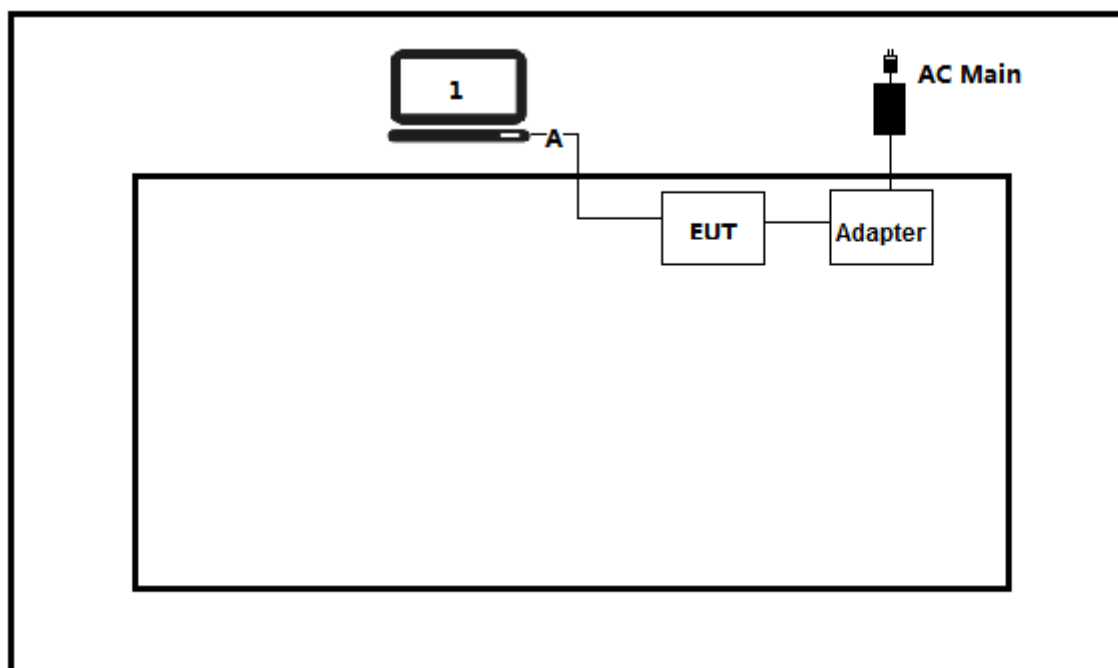
### 1.5. Tested System Details

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

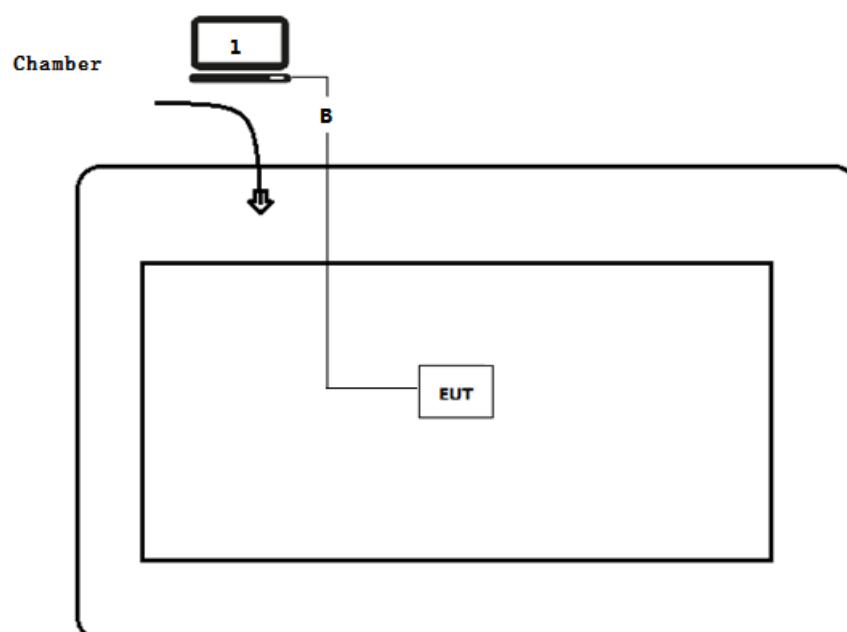
| Product |            | Manufacturer | Model No.      | Serial No. | Power Cord     |
|---------|------------|--------------|----------------|------------|----------------|
| 1       | Notebook   | Lenovo       | Think pad x220 | SUA0600195 | Non-shielded   |
| A       | WLAN cable | N/A          | N/A            | N/A        | Shielded, 0.5m |
| B       | WLAN cable | N/A          | N/A            | N/A        | Shielded, 10m  |

## 1.6. Configuration of Tested System

Test setup Diagram- AC Line Conducted Emission Test



Test setup Diagram- Radiated Emission



### **1.7.EUT Exercise Software**

|   |                                                                                                          |
|---|----------------------------------------------------------------------------------------------------------|
| 1 | Setup the EUT and simulators as shown on above.                                                          |
| 2 | Turn on the power of equipment.                                                                          |
| 3 | Run RF software [MTool], and set the test mode and channel, then press OK to start to continue transmit. |

## 2. Technical Test

### 2.1. Summary of Test Result

- ☒ No deviations from the test standards  
☐ Deviations from the test standards as below description:

| Performed Test Item                          | Normative References                                             | Limit         | Result |
|----------------------------------------------|------------------------------------------------------------------|---------------|--------|
| Conducted Emission                           | FCC CFR Title 47 Part 15 Subpart E:<br>Section 15.207            | FCC 15.207    | PASS   |
| Radiated Emission                            | FCC CFR Title 47 Part 15 Subpart E:<br>Section 15.209            | FCC 15.209    | PASS   |
| Emission bandwidth and<br>occupied bandwidth | FCC CFR Title 47 Part 15 Subpart E:<br>Section 15.407(a)         | FCC 15.407(e) | PASS   |
| 6dB Emission Bandwidth                       | FCC CFR Title 47 Part 15 Subpart E:<br>Section 15.407(a)         | FCC 15.407(e) | PASS   |
| Power Output                                 | FCC CFR Title 47 Part 15 Subpart E:<br>Section 15.407(a)         | FCC 15.407(a) | PASS   |
| Peak Power Spectral Density                  | FCC CFR Title 47 Part 15 Subpart E:<br>Section 15.407(a)         | FCC 15.407(a) | PASS   |
| Radiated Emission Band Edge                  | FCC CFR Title 47 Part 15 Subpart E:<br>Section 15.205, 15.407(b) | FCC 15.407(b) | PASS   |
| Frequency Stability                          | FCC CFR Title 47 Part 15 Subpart E:<br>Section 15.407(g)         | $\pm 20$ ppm  | PASS   |

### 2.2. Test Frequency configuration:

| Modulation Mode        | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|------------------------|---------|-----------|---------|-----------|---------|-----------|
| 802.11a/n/ac/ax(20MHz) | 36      | 5180MHz   | 40      | 5200MHz   | 44      | 5220MHz   |
|                        | 48      | 5240MHz   | 149     | 5745MHz   | 157     | 5785MHz   |
|                        | 165     | 5825MHz   | N/A     | N/A       | N/A     | N/A       |
| 802.11n/ac/ax(40MHz)   | 38      | 5190MHz   | 46      | 5230MHz   | 151     | 5755MHz   |
|                        | 159     | 5795MHz   | N/A     | N/A       | N/A     | N/A       |
| 802.11ac/ax(80MHz)     | 42      | 5210MHz   | 155     | 5775MHz   | N/A     | N/A       |

### 2.3. Power vs Data Rate

| MCS Index<br>for 802.11n | Spatial<br>Streams | Data Rate (Mbps) |         |         |                 |          |                 |          |
|--------------------------|--------------------|------------------|---------|---------|-----------------|----------|-----------------|----------|
|                          |                    | 802.11b          | 802.11g | 802.11a | 20MHz Bandwidth |          | 40MHz Bandwidth |          |
|                          |                    |                  |         |         | 800ns GI        | 400ns GI | 800ns GI        | 400ns GI |
| 0                        | 1                  | 1                | 6       | 6       | 6.5             | 7.2      | 13.5            | 15.0     |
| 1                        | 1                  | 2                | 9       | 9       | 13.0            | 14.4     | 27.0            | 30.0     |
| 2                        | 1                  | 5.5              | 12      | 12      | 19.5            | 21.7     | 40.5            | 45.0     |
| 3                        | 1                  | 11               | 18      | 18      | 26.0            | 28.9     | 54.0            | 60.0     |
| 4                        | 1                  | ---              | 24      | 24      | 39.0            | 43.3     | 81.0            | 90.0     |
| 5                        | 1                  | ---              | 36      | 36      | 52.0            | 57.8     | 108.0           | 120.0    |
| 6                        | 1                  | ---              | 48      | 48      | 58.5            | 65.0     | 121.5           | 135.0    |
| 7                        | 1                  | ---              | 54      | 54      | 65.0            | 72.2     | 135.0           | 150.0    |
| 8                        | 2                  | ---              | ---     | ---     | 13.0            | 14.4     | 27.0            | 30.0     |
| 9                        | 2                  | ---              | ---     | ---     | 26.0            | 28.9     | 54.0            | 60.0     |
| 10                       | 2                  | ---              | ---     | ---     | 39.0            | 43.3     | 81.0            | 90.0     |
| 11                       | 2                  | ---              | ---     | ---     | 52.0            | 57.8     | 108.0           | 120.0    |
| 12                       | 2                  | ---              | ---     | ---     | 78.0            | 86.7     | 162.0           | 180.0    |
| 13                       | 2                  | ---              | ---     | ---     | 104.0           | 115.6    | 216.0           | 240.0    |
| 14                       | 2                  | ---              | ---     | ---     | 117.0           | 130.0    | 243.0           | 270.0    |
| 15                       | 2                  | ---              | ---     | ---     | 130.0           | 144.0    | 270.0           | 300.0    |

Note1: The blue form is the maximum power data rate.

2: The EUT supports two spatial streams.



| Spatial Streams (Note1)                               | MCS Index | Modulation type | Coding rate | Data Rate(Mb/s) |       |                |       |                |       |
|-------------------------------------------------------|-----------|-----------------|-------------|-----------------|-------|----------------|-------|----------------|-------|
|                                                       |           |                 |             | 20MHz           |       | 40MHz          |       | 80MHz          |       |
|                                                       |           |                 |             | Guard Interval  |       | Guard Interval |       | Guard Interval |       |
|                                                       |           |                 |             | 800ns           | 400ns | 800ns          | 400ns | 800ns          | 400ns |
| 1                                                     | 0         | BPSK            | 1/2         | 6.5             | 7.2   | 13.5           | 15    | 29.3           | 32.5  |
|                                                       | 1         | QPSK            | 1/2         | 13              | 14.4  | 27             | 30    | 58.5           | 65    |
|                                                       | 2         | QPSK            | 3/4         | 19.5            | 21.7  | 40.5           | 45    | 87.8           | 97.5  |
|                                                       | 3         | 16-QAM          | 1/2         | 26              | 28.9  | 54             | 60    | 117            | 130   |
|                                                       | 4         | 16-QAM          | 3/4         | 39              | 43.3  | 81             | 90    | 175.5          | 195   |
|                                                       | 5         | 64-QAM          | 2/3         | 52              | 57.8  | 108            | 120   | 234            | 260   |
|                                                       | 6         | 64-QAM          | 3/4         | 58.5            | 65    | 121.5          | 135   | 263.3          | 292.5 |
|                                                       | 7         | 64-QAM          | 5/6         | 65              | 72.2  | 135            | 150   | 292.5          | 325   |
|                                                       | 8         | 256-QAM         | 3/4         | 78              | 86.7  | 162            | 180   | 351            | 390   |
|                                                       | 9         | 256-QAM         | 5/6         | N/A             | N/A   | 180            | 200   | 390            | 433.3 |
| 2                                                     | 10        | BPSK            | 1/2         | 13.0            | 14.4  | 27.0           | 30.0  | 58.6           | 65.0  |
|                                                       | 11        | QPSK            | 1/2         | 26.0            | 28.8  | 54.0           | 60.0  | 117.0          | 130.0 |
|                                                       | 12        | QPSK            | 3/4         | 39.0            | 43.4  | 81.0           | 90.0  | 175.6          | 195.0 |
|                                                       | 13        | 16-QAM          | 1/2         | 52.0            | 57.8  | 108.0          | 120.0 | 234.0          | 260.0 |
|                                                       | 14        | 16-QAM          | 3/4         | 78.0            | 86.6  | 162.0          | 180.0 | 351.0          | 390.0 |
|                                                       | 15        | 64-QAM          | 2/3         | 104.0           | 115.6 | 216.0          | 240.0 | 468.0          | 520.0 |
|                                                       | 16        | 64-QAM          | 3/4         | 117.0           | 130.0 | 243.0          | 270.0 | 526.6          | 585.0 |
|                                                       | 17        | 64-QAM          | 5/6         | 130.0           | 144.4 | 270.0          | 300.0 | 585.0          | 650.0 |
|                                                       | 18        | 256-QAM         | 3/4         | 156.0           | 173.4 | 324.0          | 360.0 | 702.0          | 780.0 |
|                                                       | 19        | 256-QAM         | 5/6         | N/A             | N/A   | 360.0          | 400.0 | 780.0          | 866.6 |
| Note 1: The blue form is the maximum power data rate. |           |                 |             |                 |       |                |       |                |       |
| 2: The EUT supports two spatial streams.              |           |                 |             |                 |       |                |       |                |       |

| Spatial Streams<br>(Note1)                            | MCS Index | Modulation type | Coding rate | Data Rate(Mb/s) |              |                |              |                |              |                |              |
|-------------------------------------------------------|-----------|-----------------|-------------|-----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|
|                                                       |           |                 |             | 20MHz           |              | 40MHz          |              | 80MHz          |              | 160MHz         |              |
|                                                       |           |                 |             | Guard Interval  |              | Guard Interval |              | Guard Interval |              | Guard Interval |              |
|                                                       |           |                 |             | 1600 ns<br>GI   | 800 ns<br>GI | 1600 ns<br>GI  | 800 ns<br>GI | 1600 ns<br>GI  | 800 ns<br>GI | 1600 ns<br>GI  | 800 ns<br>GI |
| 1                                                     | 0         | BPSK            | 1/2         | 4               | 4            | 8              | 9            | 17             | 18           | 34             | 36           |
|                                                       | 1         | QPSK            | 1/2         | 16              | 17           | 33             | 34           | 68             | 72           | 136            | 144          |
|                                                       | 2         | QPSK            | 3/4         | 24              | 26           | 49             | 52           | 102            | 108          | 204            | 216          |
|                                                       | 3         | 16-QAM          | 1/2         | 33              | 34           | 65             | 69           | 136            | 144          | 272            | 282          |
|                                                       | 4         | 16-QAM          | 3/4         | 49              | 52           | 98             | 103          | 204            | 216          | 408            | 432          |
|                                                       | 5         | 64-QAM          | 2/3         | 65              | 69           | 130            | 138          | 272            | 288          | 544            | 576          |
|                                                       | 6         | 64-QAM          | 3/4         | 73              | 77           | 146            | 155          | 306            | 324          | 613            | 649          |
|                                                       | 7         | 64-QAM          | 5/6         | 81              | 86           | 163            | 172          | 340            | 360          | 681            | 721          |
|                                                       | 8         | 256-QAM         | 3/4         | 98              | 103          | 195            | 207          | 408            | 432          | 817            | 865          |
|                                                       | 9         | 256-QAM         | 5/6         | 108             | 115          | 217            | 229          | 453            | 480          | 907            | 961          |
|                                                       | 10        | 1024-QAM        | 3/4         | 122             | 129          | 244            | 258          | 510            | 540          | 1021           | 1081         |
|                                                       | 11        | 1024-QAM        | 5/6         | 135             | 143          | 271            | 287          | 567            | 600          | 1134           | 1201         |
| 2                                                     | 12        | BPSK            | 1/2         | 8               | 8            | 16             | 18           | 34             | 36           | 68             | 72           |
|                                                       | 13        | QPSK            | 1/2         | 32              | 34           | 66             | 68           | 136            | 144          | 272            | 288          |
|                                                       | 14        | QPSK            | 3/4         | 48              | 52           | 98             | 104          | 204            | 216          | 408            | 432          |
|                                                       | 15        | 16-QAM          | 1/2         | 66              | 68           | 130            | 138          | 272            | 288          | 544            | 564          |
|                                                       | 16        | 16-QAM          | 3/4         | 98              | 104          | 196            | 206          | 408            | 432          | 816            | 864          |
|                                                       | 17        | 64-QAM          | 2/3         | 130             | 138          | 260            | 276          | 544            | 576          | 1088           | 1152         |
|                                                       | 18        | 64-QAM          | 3/4         | 146             | 154          | 292            | 310          | 612            | 648          | 1226           | 1298         |
|                                                       | 19        | 64-QAM          | 5/6         | 162             | 172          | 326            | 344          | 680            | 720          | 1362           | 1442         |
|                                                       | 20        | 256-QAM         | 3/4         | 196             | 206          | 390            | 414          | 816            | 864          | 1634           | 1730         |
|                                                       | 21        | 256-QAM         | 5/6         | 216             | 230          | 434            | 458          | 906            | 960          | 1814           | 1922         |
|                                                       | 22        | 1024-QAM        | 3/4         | 244             | 258          | 488            | 516          | 1020           | 1080         | 2042           | 2162         |
|                                                       | 23        | 1024-QAM        | 5/6         | 270             | 286          | 542            | 574          | 1134           | 1200         | 2268           | 2402         |
| Note 1: The blue form is the maximum power data rate. |           |                 |             |                 |              |                |              |                |              |                |              |
| 2: The EUT supports two spatial streams.              |           |                 |             |                 |              |                |              |                |              |                |              |

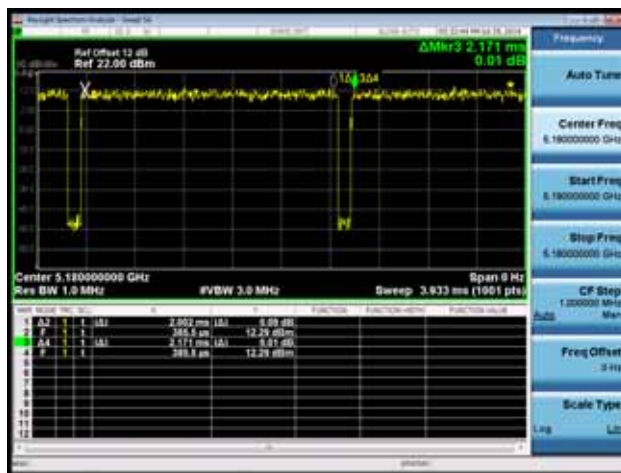
## 2.4. Duty Cycle

| Test Mode       | Tx On (ms) | Tx Off (ms) | VBW(KHz) | Tx On + Tx Off (ms) | Duty Cycle (%) |
|-----------------|------------|-------------|----------|---------------------|----------------|
| 802.11a         | 2.002      | 0.169       | 0.51     | 2.171               | 92.22          |
| 802.11n(20MHz)  | 1.900      | 0.122       | 0.56     | 2.022               | 93.97          |
| 802.11n(40MHz)  | 0.900      | 0.143       | 1.2      | 1.043               | 86.29          |
| 802.11ac(20MHz) | 1.898      | 0.059       | 0.56     | 1.957               | 96.99          |
| 802.11ac(40MHz) | 0.907      | 0.075       | 1.2      | 0.982               | 92.36          |
| 802.11ac(80MHz) | 0.426      | 0.064       | 2.4      | 0.490               | 86.94          |
| 802.11ax(20MHz) | 1.478      | 0.044       | 0.68     | 1.522               | 97.11          |
| 802.11ax(40MHz) | 0.742      | 0.072       | 1.5      | 0.814               | 91.15          |
| 802.11ax(80MHz) | 0.397      | 0.048       | 2.7      | 0.445               | 89.21          |

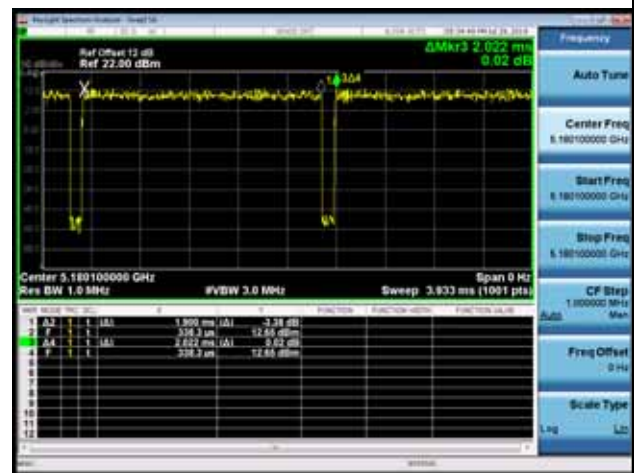
Note 1: T means the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

Note 2: According to KDB 789033, when test for Conducted Emission Band Edge and Radiated Emission,  $VBW \geq 1/T$  will be used.

802.11a



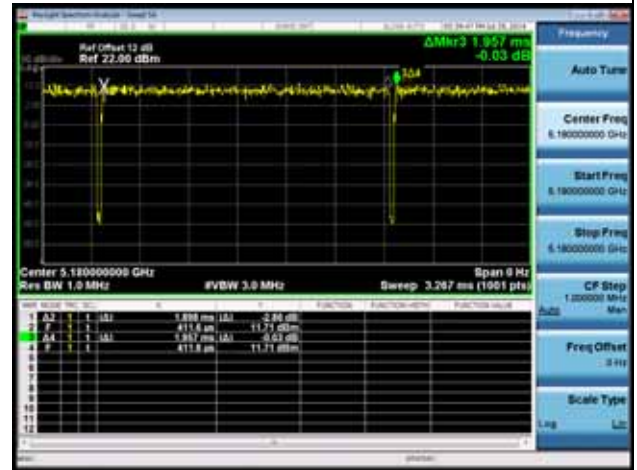
802.11n(20MHz)



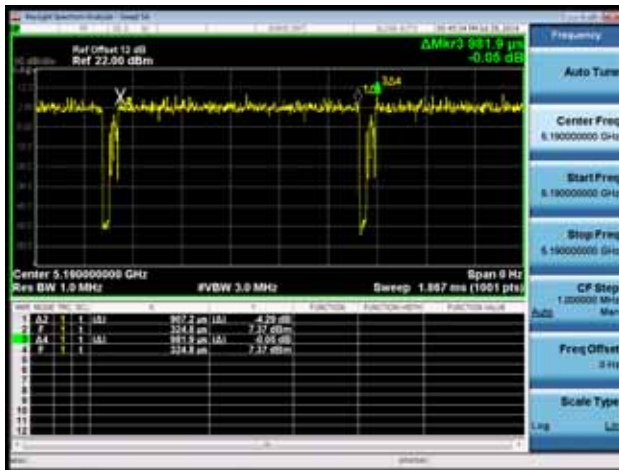
802.11n(40MHz)



802.11ac(20MHz)



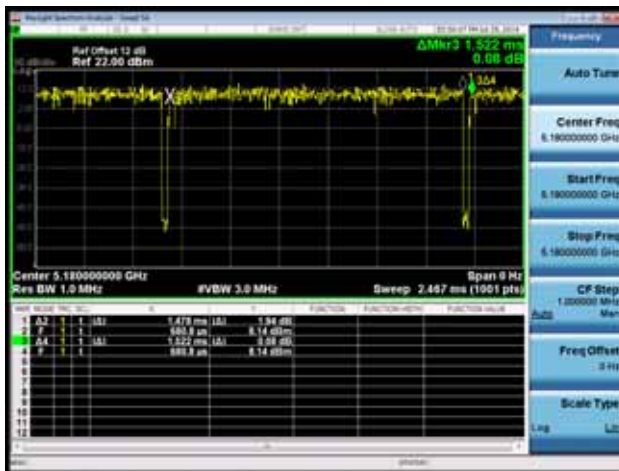
802.11ac(40MHz)



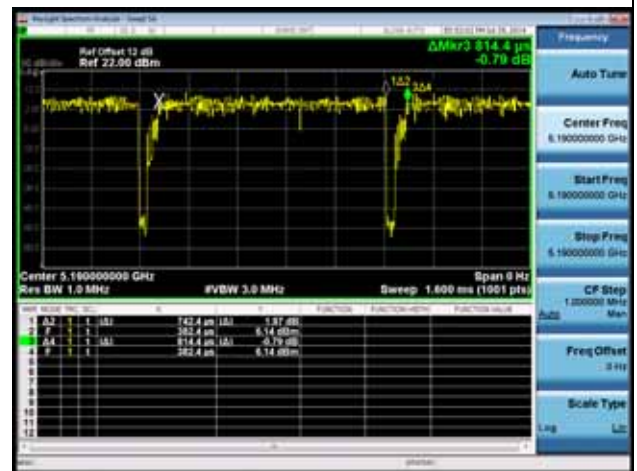
802.11ac(80MHz)



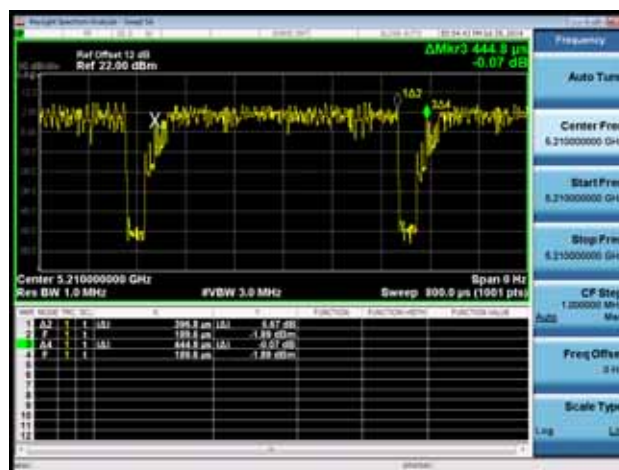
802.11ax(20MHz)



802.11ax(40MHz)



802.11ax(80MHz)

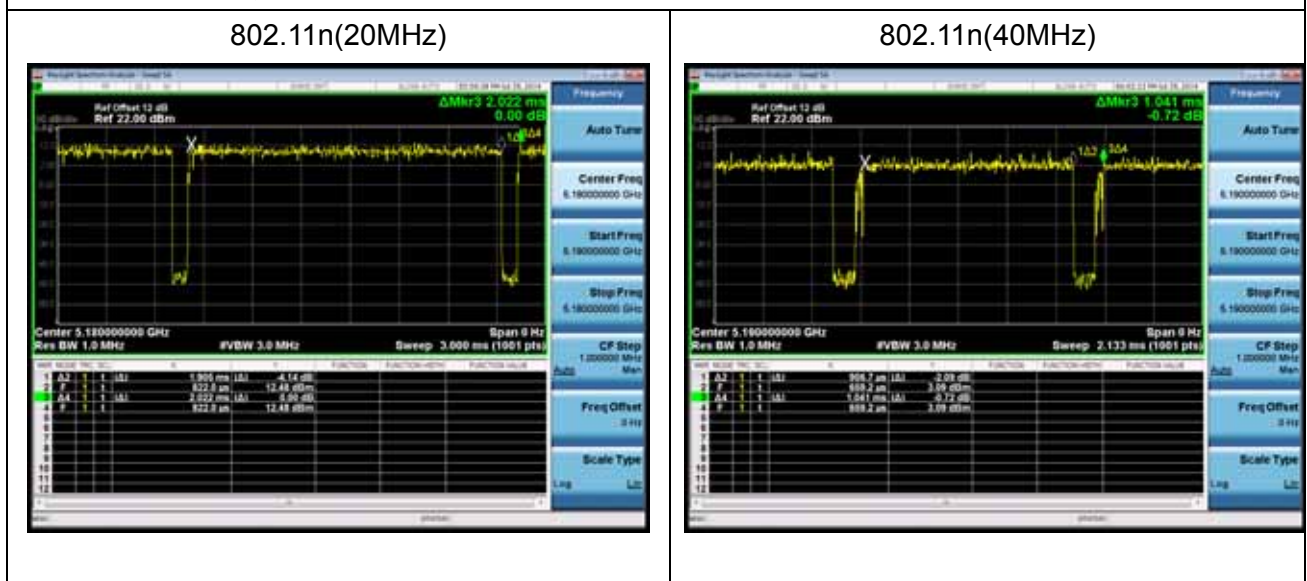


### Beam-forming:

| Test Mode       | Tx On (ms) | Tx Off (ms) | VBW(KHz) | Tx On + Tx Off (ms) | Duty Cycle (%) |
|-----------------|------------|-------------|----------|---------------------|----------------|
| 802.11n(20MHz)  | 1.905      | 0.117       | 0.56     | 2.022               | 94.21          |
| 802.11n(40MHz)  | 0.907      | 0.134       | 1.2      | 1.041               | 87.13          |
| 802.11ac(20MHz) | 1.907      | 0.050       | 0.56     | 1.957               | 97.45          |
| 802.11ac(40MHz) | 0.902      | 0.080       | 1.2      | 0.982               | 91.85          |
| 802.11ac(80MHz) | 0.426      | 0.064       | 2.2      | 0.490               | 86.94          |
| 802.11ax(20MHz) | 1.471      | 0.048       | 0.68     | 1.519               | 96.84          |
| 802.11ax(40MHz) | 0.743      | 0.069       | 1.5      | 0.812               | 91.50          |
| 802.11ax(80MHz) | 0.397      | 0.052       | 2.7      | 0.449               | 88.42          |

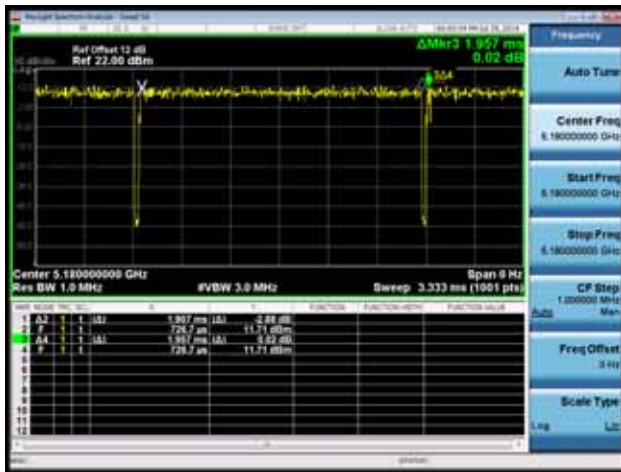
Note 1: T means the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

Note 2: According to KDB 789033, when test for Conducted Emission Band Edge and Radiated Emission,  $VBW \geq 1/T$  will be used.

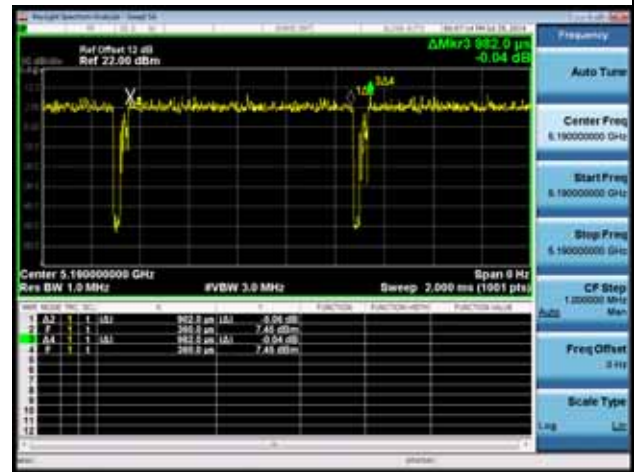




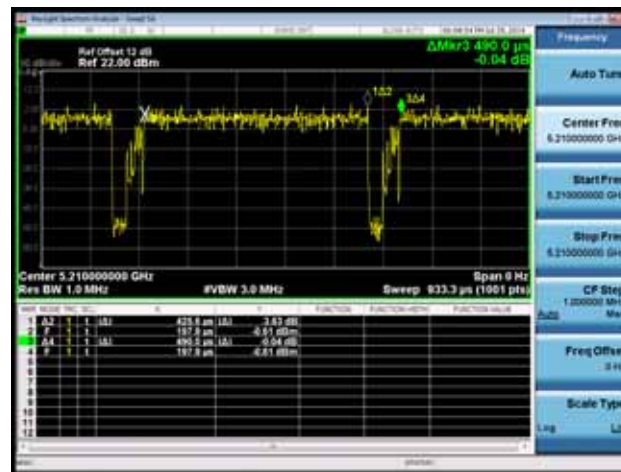
802.11ac(20MHz)



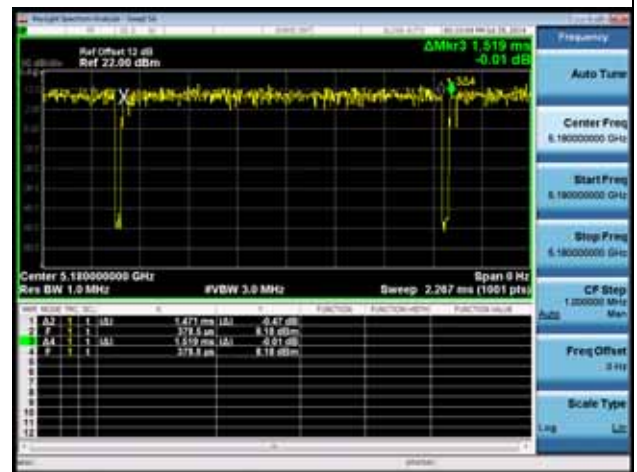
802.11ac(40MHz)



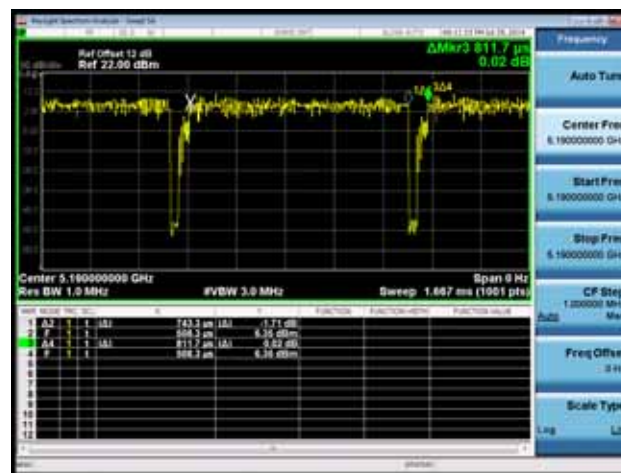
802.11ac(80MHz)



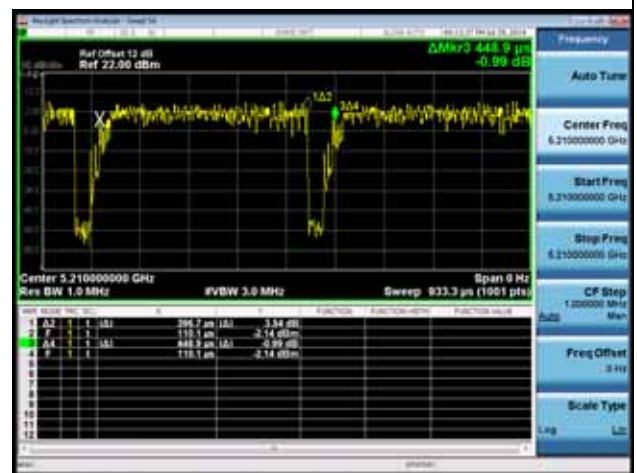
802.11ax(20MHz)



802.11ax(40MHz)



802.11ax(80MHz)



## 2.5. Test Environment

| Items                      | Required (IEC 68-1) | Actual   |
|----------------------------|---------------------|----------|
| Temperature (°C)           | 15-35               | 21       |
| Humidity (%RH)             | 25-75               | 50       |
| Barometric pressure (mbar) | 860-1060            | 950-1000 |

## 2.6. Uncertainty

| Test Items                         | Uncertainty                    |
|------------------------------------|--------------------------------|
| AC Power Line Conducted Emission   | $\pm 2.02\text{dB}$            |
| Radiated Emission                  | Below 1GHz $\pm 3.8\text{ dB}$ |
|                                    | Above 1GHz $\pm 3.9\text{ dB}$ |
| RF Antenna Port Conducted Emission | $\pm 1.27\text{dB}$            |
| Radiated Emission Band Edge        | $\pm 3.9\text{dB}$             |
| Occupied Bandwidth                 | $\pm 1\text{kHz}$              |
| Power Spectral Density             | $\pm 1.27\text{dB}$            |
| Frequency Stability                | $\pm 100\text{ Hz}$            |



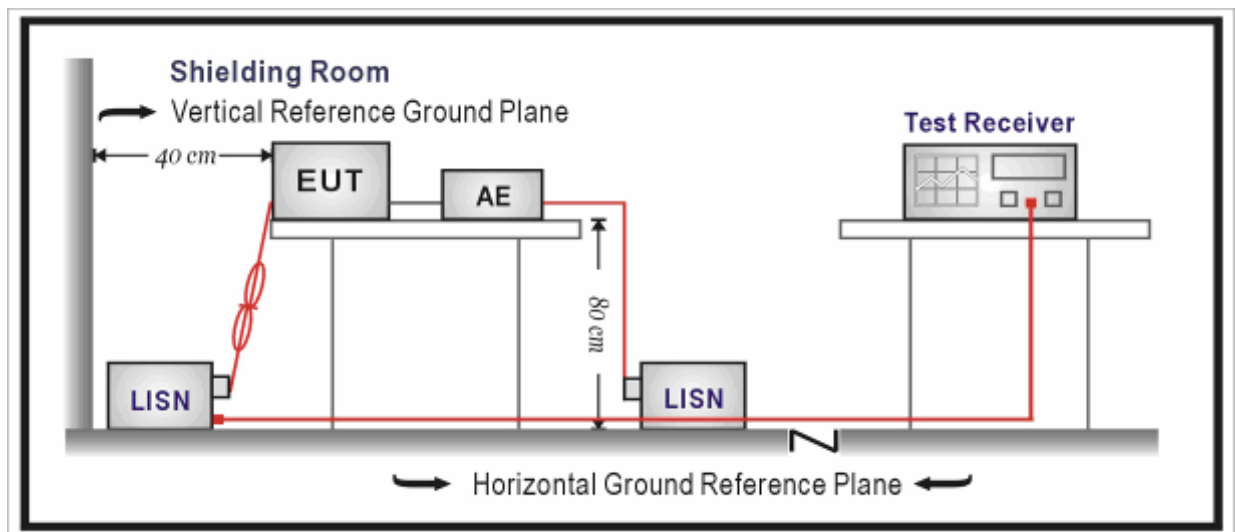
### 3. Conducted Emission

#### 3.1. Test Equipment

| Conducted Emission / TR-1  |              |          |            |            |               |
|----------------------------|--------------|----------|------------|------------|---------------|
| Instrument                 | Manufacturer | Type No. | Serial No. | Cal. Date  | Cal. Due Date |
| EMI Test Receiver          | R&S          | ESCI     | 100906     | 2019.03.05 | 2020.03.04    |
| Two-Line V-Network         | R&S          | ENV 216  | 101189     | 2019.06.16 | 2020.06.15    |
| Two-Line V-Network         | R&S          | ENV 216  | 101044     | 2018.09.16 | 2019.09.15    |
| 50ohm Coaxial Switch       | Anritsu      | MP59B    | 6200464462 | N/A        | N/A           |
| 50ohm Termination          | SHX          | TF2      | 07081402   | 2018.09.16 | 2019.09.15    |
| Temperature/Humidity Meter | Zhichen      | ZC1-2    | TR1-TH     | 2019.01.05 | 2020.01.04    |

Note: All equipment are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

#### 3.2. Test Setup



### 3.3. Limit

| Frequency<br>(MHz) | QP<br>(dB $\mu$ V) | AV<br>(dB $\mu$ V) |
|--------------------|--------------------|--------------------|
| 0.15 - 0.50        | 66 – 56            | 56 – 46            |
| 0.50 - 5.0         | 56                 | 46                 |
| 5.0 - 30           | 60                 | 50                 |

Note 1: The lower limit shall apply at the transition frequencies.

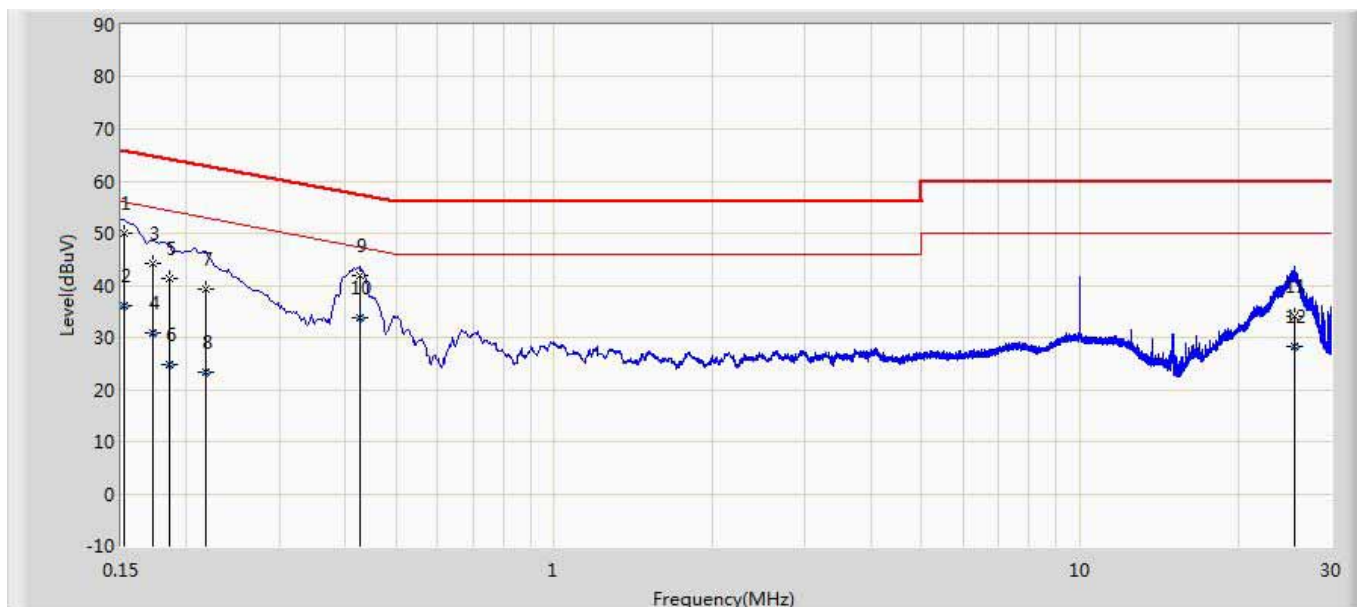
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

### 3.4. Test Procedure

| Test Method                         |                  |         |                                                                                             |
|-------------------------------------|------------------|---------|---------------------------------------------------------------------------------------------|
|                                     | References Rule  | Chapter | Item                                                                                        |
| <input checked="" type="checkbox"/> | ANSI C63.10-2013 | 6.2     | Standard test method for ac power-line conducted emissions from unlicensed wireless devices |

### 3.5. Test Result

|                                   |                     |
|-----------------------------------|---------------------|
| Site: TR1                         | Time: 2019/07/29    |
| Limit: FCC_Part15.207_CE_AC Power | Margin: 0           |
| Probe: ENV216_101190(0.009-30MHz) | Polarity: Neutral   |
| EUT: Wireless Access Point        | Power: AC 120V/60Hz |
| Note: Mode 1                      |                     |

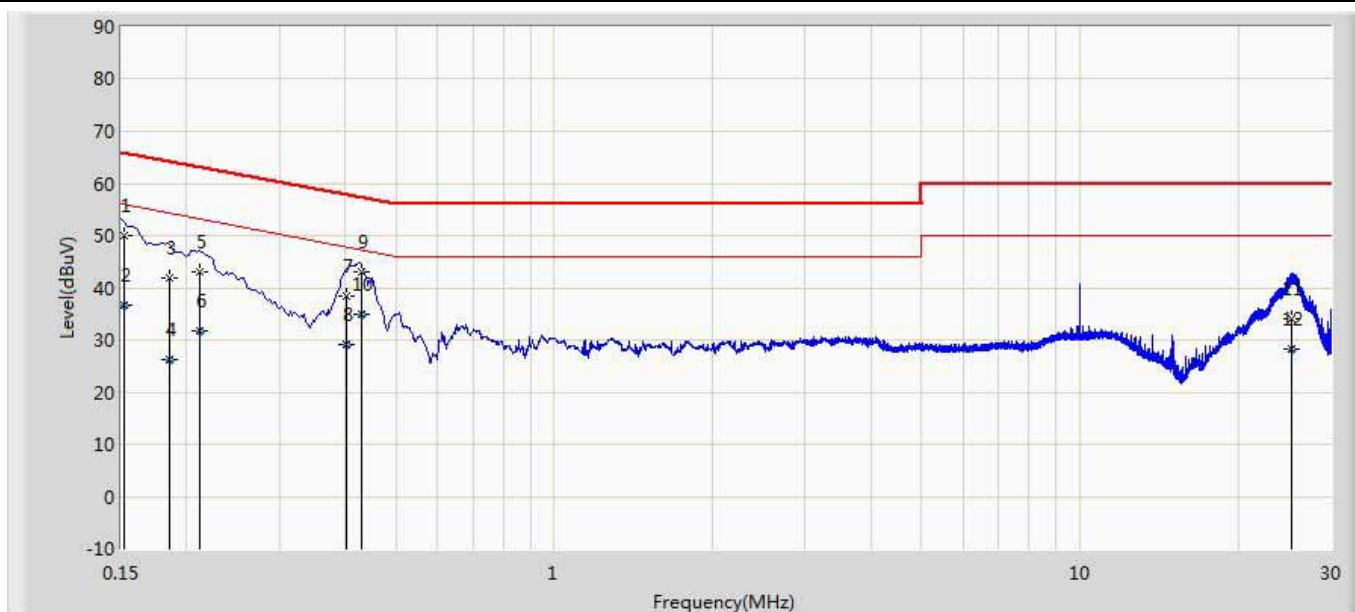


| No | Mark | Frequency (MHz) | Measure Level (dBuV) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV) | Probe (dB) | Cable (dB) | Amp (dB) | Type |
|----|------|-----------------|----------------------|----------------------|-----------------|--------------|------------|------------|----------|------|
| 1  |      | 0.152           | 49.929               | 40.306               | -15.948         | 65.876       | 9.593      | 0.029      | 0.000    | QP   |
| 2  |      | 0.152           | 35.979               | 26.357               | -19.897         | 55.876       | 9.593      | 0.029      | 0.000    | AV   |
| 3  |      | 0.172           | 44.126               | 34.503               | -20.713         | 64.839       | 9.595      | 0.028      | 0.000    | QP   |
| 4  |      | 0.172           | 30.838               | 21.215               | -24.001         | 54.839       | 9.595      | 0.028      | 0.000    | AV   |
| 5  |      | 0.186           | 41.223               | 31.598               | -22.990         | 64.213       | 9.597      | 0.028      | 0.000    | QP   |
| 6  |      | 0.186           | 24.909               | 15.283               | -29.305         | 54.213       | 9.597      | 0.028      | 0.000    | AV   |
| 7  |      | 0.217           | 39.332               | 29.704               | -23.582         | 62.914       | 9.599      | 0.029      | 0.000    | QP   |
| 8  |      | 0.217           | 23.191               | 13.563               | -29.723         | 52.914       | 9.599      | 0.029      | 0.000    | AV   |
| 9  |      | 0.427           | 41.874               | 32.243               | -15.441         | 57.316       | 9.592      | 0.040      | 0.000    | QP   |
| 10 | *    | 0.427           | 33.739               | 24.107               | -13.577         | 47.316       | 9.592      | 0.040      | 0.000    | AV   |
| 11 |      | 25.548          | 34.116               | 23.134               | -25.884         | 60.000       | 10.653     | 0.328      | 0.000    | QP   |
| 12 |      | 25.548          | 28.240               | 17.259               | -21.760         | 50.000       | 10.653     | 0.328      | 0.000    | AV   |

Note:

1. " \* ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

|                                   |                     |
|-----------------------------------|---------------------|
| Site: TR1                         | Time: 2019/07/29    |
| Limit: FCC_Part15.207_CE_AC Power | Margin: 0           |
| Probe: ENV216_101190(0.009-30MHz) | Polarity: Line      |
| EUT: Wireless Access Point        | Power: AC 120V/60Hz |
| Note: Mode 1                      |                     |



| No | Mark | Frequency (MHz) | Measure Level (dBuV) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV) | Probe (dB) | Cable (dB) | Amp (dB) | Type |
|----|------|-----------------|----------------------|----------------------|-----------------|--------------|------------|------------|----------|------|
| 1  |      | 0.152           | 50.013               | 40.374               | -15.864         | 65.876       | 9.609      | 0.029      | 0.000    | QP   |
| 2  |      | 0.152           | 36.647               | 27.009               | -19.229         | 55.876       | 9.609      | 0.029      | 0.000    | AV   |
| 3  |      | 0.186           | 41.941               | 32.310               | -22.272         | 64.213       | 9.603      | 0.028      | 0.000    | QP   |
| 4  |      | 0.186           | 26.273               | 16.642               | -27.940         | 54.213       | 9.603      | 0.028      | 0.000    | AV   |
| 5  |      | 0.211           | 42.915               | 33.285               | -20.261         | 63.176       | 9.601      | 0.029      | 0.000    | QP   |
| 6  |      | 0.211           | 31.678               | 22.049               | -21.497         | 53.176       | 9.601      | 0.029      | 0.000    | AV   |
| 7  |      | 0.402           | 38.263               | 28.625               | -19.549         | 57.812       | 9.600      | 0.038      | 0.000    | QP   |
| 8  |      | 0.402           | 29.245               | 19.606               | -18.567         | 47.812       | 9.600      | 0.038      | 0.000    | AV   |
| 9  |      | 0.429           | 42.941               | 33.301               | -14.331         | 57.272       | 9.600      | 0.040      | 0.000    | QP   |
| 10 | *    | 0.429           | 34.824               | 25.185               | -12.448         | 47.272       | 9.600      | 0.040      | 0.000    | AV   |
| 11 |      | 25.287          | 34.026               | 23.234               | -25.974         | 60.000       | 10.465     | 0.326      | 0.000    | QP   |
| 12 |      | 25.287          | 28.127               | 17.335               | -21.873         | 50.000       | 10.465     | 0.326      | 0.000    | AV   |

Note:

1. " \* ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

## 4. Radiated Emission

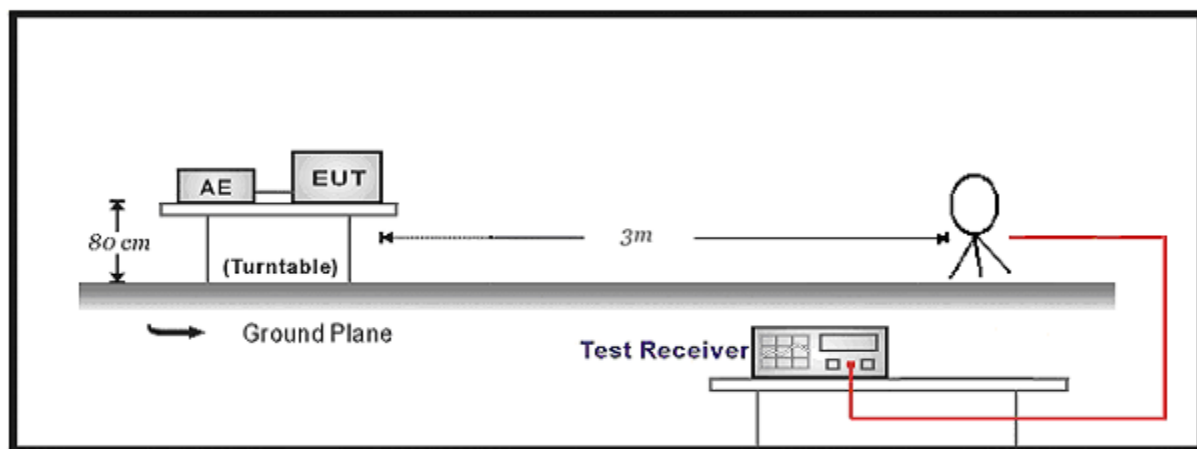
### 4.1. Test Equipment

| Radiated Emission(Below 1GHz) / AC-2                                                                                                      |              |              |            |            |               |
|-------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|------------|------------|---------------|
| Instrument                                                                                                                                | Manufacturer | Type No.     | Serial No. | Cal. Date  | Cal. Due Date |
| EMI Test Receiver                                                                                                                         | R&S          | ESCI         | 100573     | 2019.03.29 | 2020.03.28    |
| Loop Antenna                                                                                                                              | R&S          | HFH2-Z2      | 833799/003 | 2018.11.16 | 2019.11.15    |
| Bilog Antenna                                                                                                                             | Teseq GmbH   | CBL6112D     | 27611      | 2018.10.16 | 2019.10.15    |
| Coaxial Cable                                                                                                                             | Huber+Suhner | SUCOFLEX 106 | AC2-C      | 2019.03.02 | 2020.03.01    |
| Temperature/Humidity Meter                                                                                                                | Zhichen      | ZC1-2        | AC2-TH     | 2019.01.04 | 2020.01.03    |
| Note: All equipment are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards. |              |              |            |            |               |

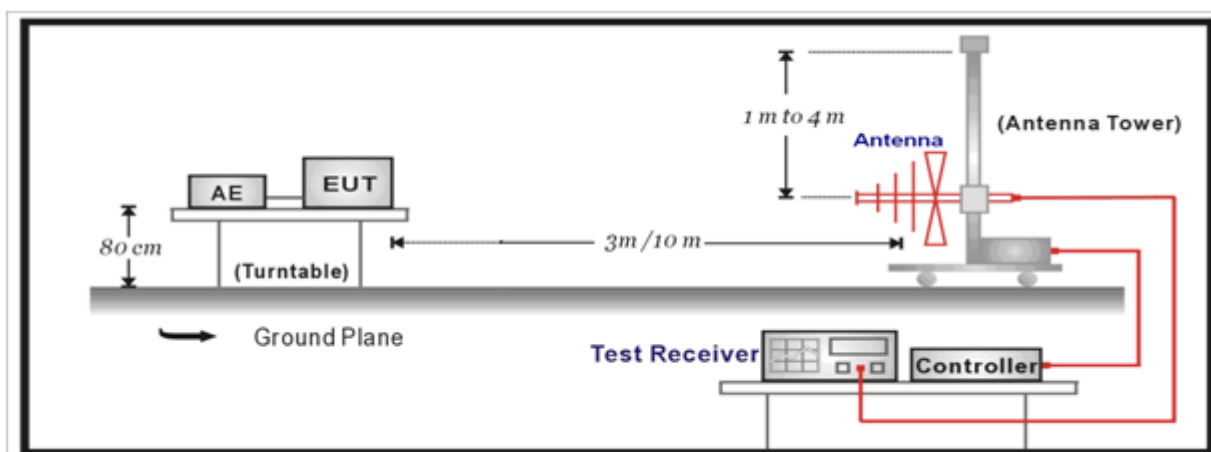
| Radiated Emission(Above 1GHz) / AC-5                                                                                                      |              |              |             |            |               |
|-------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|-------------|------------|---------------|
| Instrument                                                                                                                                | Manufacturer | Type No.     | Serial No.  | Cal. Date  | Cal. Due Date |
| Spectrum Analyzer                                                                                                                         | Agilent      | E4446A       | MY45300103  | 2019.01.04 | 2020.01.03    |
| Preamplifier                                                                                                                              | Miteq        | NSP1800-25   | 1364185     | 2019.05.06 | 2020.05.05    |
| Preamplifier                                                                                                                              | QuieTek      | AP-040G      | CHM-0906001 | 2019.05.06 | 2020.05.05    |
| DRG Horn                                                                                                                                  | ETS-Lindgren | 3117         | 00123988    | 2019.01.22 | 2020.01.21    |
| Broad-Band Horn Antenna                                                                                                                   | Schwarzbeck  | BBHA9170     | 294         | 2018.11.25 | 2019.11.24    |
| Coaxial Cable                                                                                                                             | Huber+Suhner | SUCOFLEX 106 | AC5-C1      | 2019.03.02 | 2020.03.01    |
| Coaxial Cable                                                                                                                             | Huber+Suhner | SUCOFLEX 106 | AC5-C2      | 2019.03.02 | 2020.03.01    |
| Coaxial Cable                                                                                                                             | Huber+Suhner | SUCOFLEX 102 | AC5-C3      | 2019.03.02 | 2020.03.01    |
| EMI Receiver                                                                                                                              | Agilent      | N9038A       | MY51210196  | 2019.06.10 | 2020.06.09    |
| Temperature/Humidity Meter                                                                                                                | Zhichen      | ZC1-2        | AC5-TH      | 2019.01.04 | 2020.01.03    |
| Note: All equipment are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards. |              |              |             |            |               |

## 4.2. Test Setup

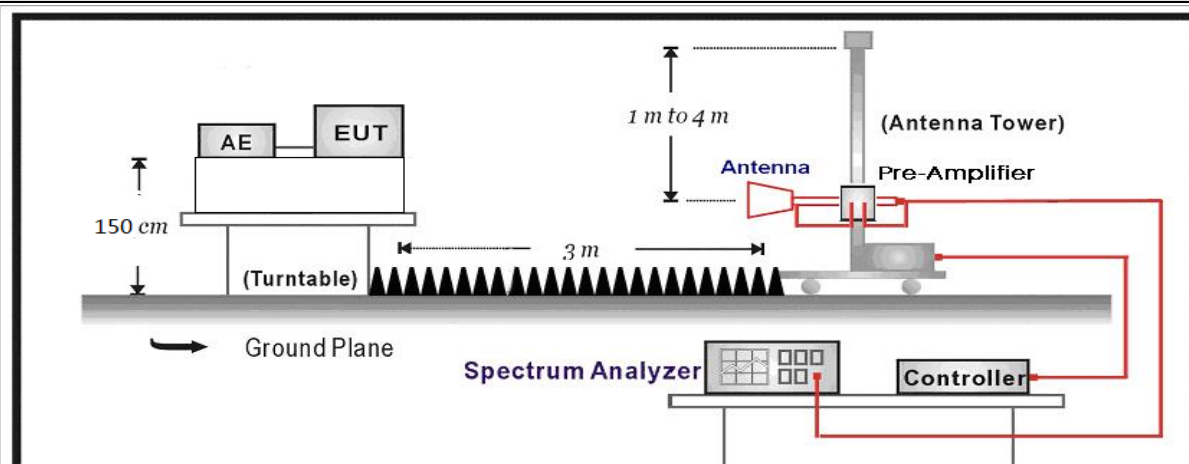
Below 30MHz Test Setup:



30MHz-1GHz Test Setup:



Above 1GHz Test Setup:



### 4.3. Limit

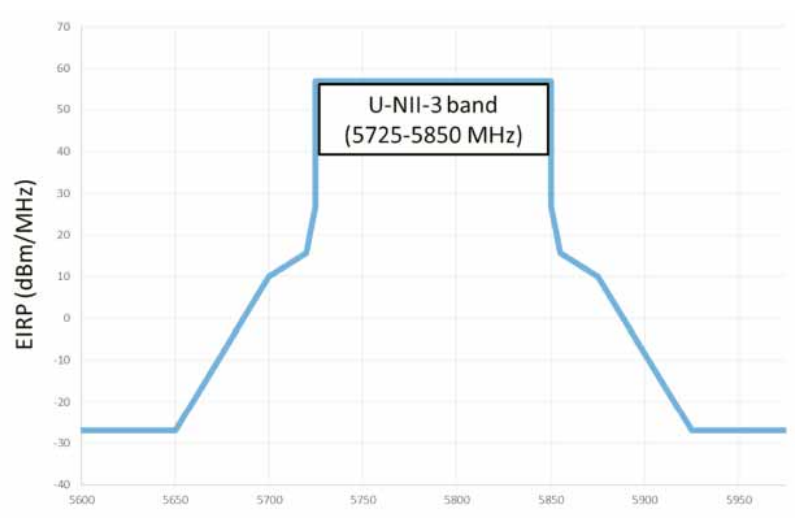
| FCC Part 15 Subpart C Paragraph 15.209 (Restricted Band Emissions Limit) |              |                      |
|--------------------------------------------------------------------------|--------------|----------------------|
| Frequency (MHz)                                                          | Distance (m) | Level (dB $\mu$ V/m) |
| 0.009-0.490                                                              | 300          | 2400/F(kHz)          |
| 0.490-1.705                                                              | 30           | 24000/F(kHz)         |
| 1.705-30.0                                                               | 30           | 30                   |
| 30-88                                                                    | 3            | 100**                |
| 88-216                                                                   | 3            | 150**                |
| 216-960                                                                  | 3            | 200**                |
| Above 960                                                                | 3            | 500                  |

Note 1: At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade).

Note 2: At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

| FCC Part 15 Subpart C Paragraph 15.205 (Restricted Band) |                       |                 |                 |
|----------------------------------------------------------|-----------------------|-----------------|-----------------|
| Frequency (MHz)                                          | Frequency (MHz)       | Frequency (MHz) | Frequency (GHz) |
| 0.090 – 0.110                                            | 16.42 – 16.423        | 399.9 – 410     | 4.5 – 5.15      |
| 0.495 – 0.505                                            | 16.69475 – 16.69525   | 608 – 614       | 5.35 – 5.46     |
| 2.1735 – 2.1905                                          | 16.80425 – 16.80475   | 960 – 1240      | 7.25 – 7.75     |
| 4.125 – 4.128                                            | 25.5 – 25.67          | 1300 – 1427     | 8.025 – 8.5     |
| 4.17725 – 4.17775                                        | 37.5 – 38.25          | 1435 – 1626.5   | 9.0 – 9.2       |
| 4.20725 – 4.20775                                        | 73 – 74.6             | 1645.5 – 1646.5 | 9.3 – 9.5       |
| 6.215 – 6.218                                            | 74.8 – 75.2           | 1660 – 1710     | 10.6 – 12.7     |
| 6.26775 – 6.26825                                        | 108 – 121.94          | 1718.8 – 1722.2 | 13.25 – 13.4    |
| 6.31175 – 6.31225                                        | 123 – 138             | 2200 – 2300     | 14.47 – 14.5    |
| 8.291 – 8.294                                            | 149.9 – 150.05        | 2310 – 2390     | 15.35 – 16.2    |
| 8.362 – 8.366                                            | 156.52475 – 156.52525 | 2483.5 – 2500   | 17.7 – 21.4     |
| 8.37625 – 8.38675                                        | 156.7 – 156.9         | 2690 – 2900     | 22.01 – 23.12   |
| 8.81425 – 8.81475                                        | 162.0125 – 167.17     | 3260 – 3267     | 23.6 – 24.0     |
| 12.29 – 12.293                                           | 167.72 – 173.2        | 3332 – 3339     | 31.2 – 31.8     |
| 12.51975 – 12.52025                                      | 240 – 285             | 3345.8 – 3358   | 36.43 – 36.5    |
| 12.57675 – 12.57725                                      | 322 – 335.4           | 3600 – 4400     |                 |
| 13.36 – 13.41                                            |                       |                 |                 |

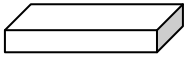
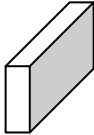
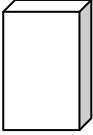
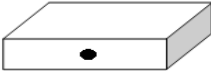
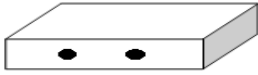


| FCC Part 15 Subpart C Paragraph 15.407(5)(b) (Unrestricted Band Emissions Limit) |                                                                                                                         |                                                |
|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| Operating Frequency Band (MHz)                                                   | EIRP Limit (dBm/MHz)                                                                                                    | Equivalent Field Strength at 3m (dB $\mu$ V/m) |
| 5150 - 5250                                                                      | -27                                                                                                                     | 68.3                                           |
| 5250 - 5350                                                                      | -27                                                                                                                     | 68.3                                           |
| 5470 - 5725                                                                      | -27                                                                                                                     | 68.3                                           |
| Operating Frequency Band (MHz)                                                   | EIRP Limit (dBm/MHz)                                                                                                    |                                                |
| 5725 - 5850                                                                      |  <p>U-NII-3 band (5725-5850 MHz)</p> |                                                |

#### 4.4. Test Procedure

| Test Method                         |                                     |                          |          |                                                                                                  |
|-------------------------------------|-------------------------------------|--------------------------|----------|--------------------------------------------------------------------------------------------------|
|                                     | References Rule                     |                          | Chapter  | Description                                                                                      |
| <input type="checkbox"/>            | ANSI C63.10                         |                          | 12.7.3   | Emissions in non-restricted frequency bands                                                      |
| <input checked="" type="checkbox"/> | ANSI C63.10                         |                          | 12.7.2   | Emissions in restricted frequency bands                                                          |
|                                     | <input checked="" type="checkbox"/> | ANSI C63.10              | 12.7.5   | Radiated emission measurements                                                                   |
|                                     | <input checked="" type="checkbox"/> | ANSI C63.10              | 12.7.6   | Procedure for peak unwanted emissions measurements above 1000 MHz                                |
|                                     | <input checked="" type="checkbox"/> | ANSI C63.10              | 12.7.7   | Procedures for average unwanted emissions measurements above 1000 MHz                            |
|                                     | <input type="checkbox"/>            | ANSI C63.10              | 12.7.7.2 | Method AD (average detection)—primary method                                                     |
|                                     | <input checked="" type="checkbox"/> | ANSI C63.10              | 12.7.7.3 | Method VB-A (Alternative)                                                                        |
|                                     | <input checked="" type="checkbox"/> | ANSI C63.10              | 6.4      | Radiated emissions from unlicensed wireless devices below 30 MHz                                 |
|                                     | <input checked="" type="checkbox"/> | ANSI C63.10              | 6.5      | Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz |
|                                     | <input checked="" type="checkbox"/> | ANSI C63.10              | 6.6      | Radiated emissions from unlicensed wireless devices above 1 GHz                                  |
| <input type="checkbox"/>            | FCC KDB 789033 D02v02r01            |                          | G.2      | Unwanted Emissions that fall Outside of the Restricted Bands                                     |
| <input type="checkbox"/>            | FCC KDB 789033 D02v02r01            |                          | G.1      | Unwanted Emissions in the Restricted Bands                                                       |
|                                     | <input type="checkbox"/>            | FCC KDB 789033 D02v02r01 | G.4      | Procedure for Unwanted Emissions Measurements below 1000 MHz                                     |
|                                     | <input type="checkbox"/>            | FCC KDB 789033 D02v02r01 | G.5      | Procedure for Unwanted Maximum Emissions Measurements above 1000 MHz                             |
|                                     | <input type="checkbox"/>            | FCC KDB 789033 D02v02r01 | G.6      | Procedures for Average Unwanted Emissions Measurements above 1000 MHz                            |
|                                     | <input type="checkbox"/>            | FCC KDB 789033 D02v02r01 | G.6.c    | Method AD (Average detection)—primary method                                                     |
|                                     | <input type="checkbox"/>            | FCC KDB 789033 D02v02r01 | G.6.d    | Method VB (Averaging using reduced video bandwidth): Alternative method.                         |

#### 4.5.EUT test Axis definition

| Item            | Radiated Emission                   |                                                                                      |                                                                                      |                                                                                      |         |
|-----------------|-------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------|
| Device Category | <input checked="" type="checkbox"/> | Indoor use                                                                           |                                                                                      |                                                                                      |         |
|                 | <input type="checkbox"/>            | Outdoor use                                                                          |                                                                                      |                                                                                      |         |
|                 | <input type="checkbox"/>            | Fix position use                                                                     |                                                                                      |                                                                                      |         |
|                 | <input type="checkbox"/>            | Client use                                                                           |                                                                                      |                                                                                      |         |
| Test mode       | Mode 1-9                            |                                                                                      |                                                                                      |                                                                                      |         |
| Test method     | <input checked="" type="checkbox"/> | Radiated                                                                             |                                                                                      |                                                                                      |         |
|                 |                                     | X Axis                                                                               | Y Axis                                                                               | Z Axis                                                                               |         |
|                 |                                     |    |  |  |         |
|                 |                                     | Worst Axis <input checked="" type="checkbox"/>                                       | Worst Axis <input type="checkbox"/>                                                  | Worst Axis <input type="checkbox"/>                                                  |         |
|                 | <input type="checkbox"/>            | Conducted                                                                            |                                                                                      |                                                                                      |         |
|                 | <input type="checkbox"/>            | Chain 1                                                                              |                                                                                      |                                                                                      |         |
|                 |                                     |  |                                                                                      |                                                                                      |         |
|                 | <input type="checkbox"/>            | Chain 1                                                                              | Chain 2                                                                              |                                                                                      |         |
|                 |                                     |  |                                                                                      |                                                                                      |         |
|                 | <input type="checkbox"/>            | Chain 1                                                                              | Chain 2                                                                              | Chain 3                                                                              |         |
|                 |                                     |  |                                                                                      |                                                                                      |         |
|                 | <input type="checkbox"/>            | Chain 1                                                                              | Chain 2                                                                              | Chain 3                                                                              | Chain 4 |
|                 |                                     |  |                                                                                      |                                                                                      |         |

#### **4.6. Test Result**

Note:

1. Measured Level = Reading Level + Factor.
2. The test frequency range, 9kHz~30MHz, 18GHz~40GHz, both of the worst case are at least 20dB below the limits, therefore no data appear in the report.
3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.
4. As the radiated emission was performed, so conducted emission was not tested.
5. The data was too large so was showed in below attached files.

**Appendix 1: AP305C-Eth1 RSE**

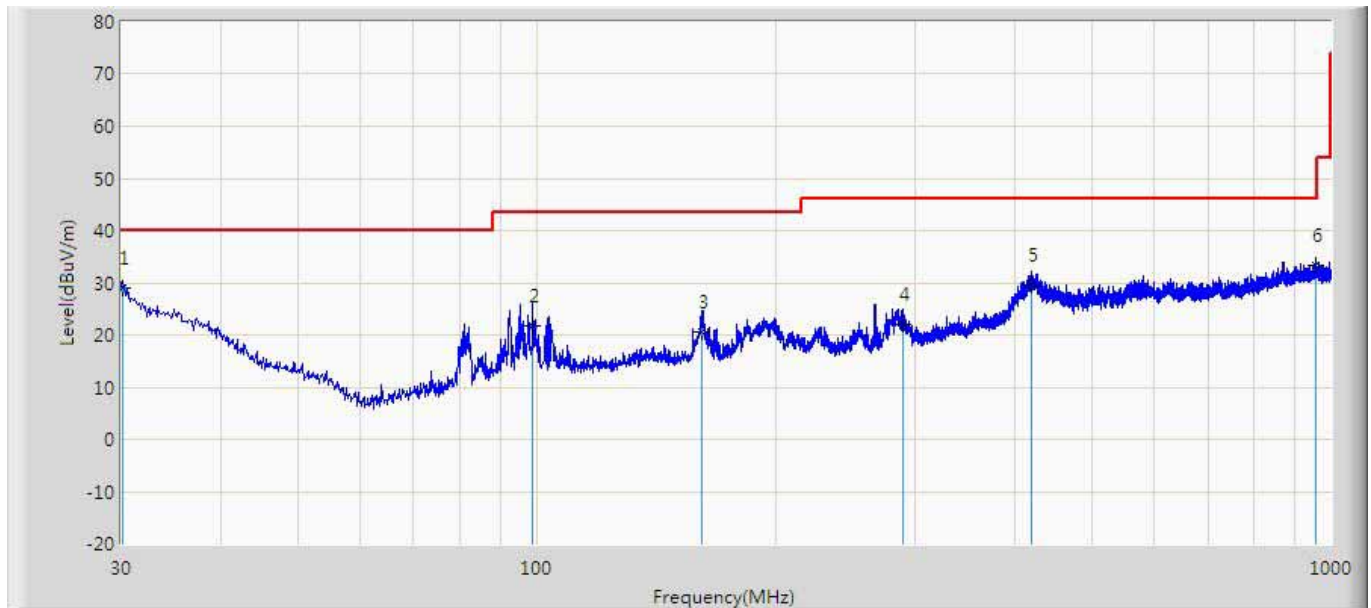
**Appendix 2: AP305C-Eth2 RSE**

**Appendix 3: AP305CX-Eth1 RSE**

**Appendix 4: AP305CX-Eth2 RSE**

## The worst case of Radiated Emission below 1GHz:

|                              |                      |
|------------------------------|----------------------|
| Site: AC3                    | Time: 2019/08/01     |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0            |
| Probe: AC3_3m (30-1000MHz)   | Polarity: Horizontal |
| EUT: Wireless Access Point   | Power: AC 120V/60Hz  |
| Note: Mode 1                 |                      |



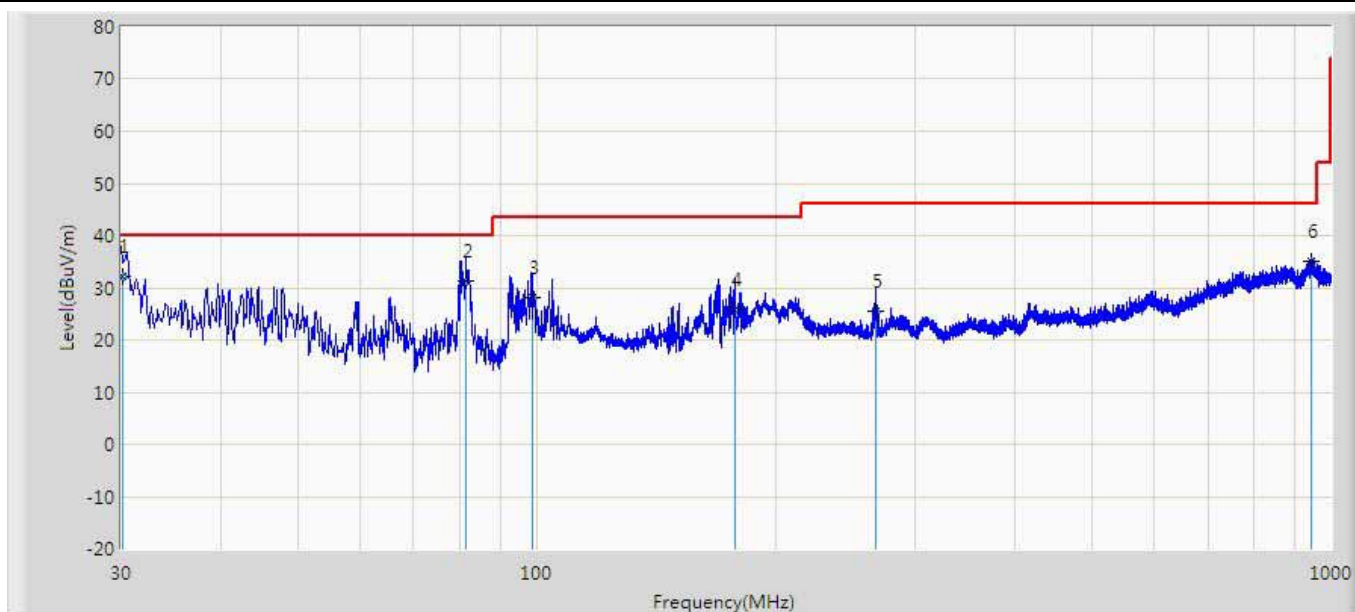
| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Probe (dB/m) | Cable (dB) | Amp (dB) | Ant Pos (cm) | Table Pos (deg) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|--------------|------------|----------|--------------|-----------------|------|
| 1  | *    | 30.133          | 29.096                 | 1.200                | -10.90          | 40.000         | 21.4         | 6.4        | 0.0      | 200          | 302             | QP   |
|    |      |                 |                        |                      | 4               |                | 42           | 54         | 00       |              |                 |      |
| 2  |      | 98.890          | 21.855                 | 5.400                | -21.64          | 43.500         | 9.61         | 6.8        | 0.0      | 100          | 208             | QP   |
|    |      |                 |                        |                      | 5               |                | 2            | 43         | 00       |              |                 |      |
| 3  |      | 161.64          | 20.498                 | 3.100                | -23.00          | 43.500         | 10.2         | 7.1        | 0.0      | 100          | 115             | QP   |
|    |      | 7               |                        |                      | 2               |                | 71           | 27         | 00       |              |                 |      |
| 4  |      | 289.74          | 22.150                 | 1.500                | -23.85          | 46.000         | 13.0         | 7.5        | 0.0      | 100          | 89              | QP   |
|    |      | 6               |                        |                      | 0               |                | 70           | 80         | 00       |              |                 |      |
| 5  |      | 419.12          | 29.507                 | 2.500                | -16.49          | 46.000         | 19.0         | 7.9        | 0.0      | 100          | 55              | QP   |
|    |      | 4               |                        |                      | 3               |                | 49           | 58         | 00       |              |                 |      |
| 6  |      | 957.56          | 33.355                 | 0.600                | -12.64          | 46.000         | 23.5         | 9.2        | 0.0      | 100          | 154             | QP   |
|    |      | 4               |                        |                      | 5               |                | 39           | 16         | 00       |              |                 |      |

Note:

1. " \* ", means this data is the worst emission level.

2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

|                              |                     |
|------------------------------|---------------------|
| Site: AC3                    | Time: 2019/08/01    |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0           |
| Probe: AC3_3m (30-1000MHz)   | Polarity: Vertical  |
| EUT: Wireless Access Point   | Power: AC 120V/60Hz |
| Note: Mode 1                 |                     |



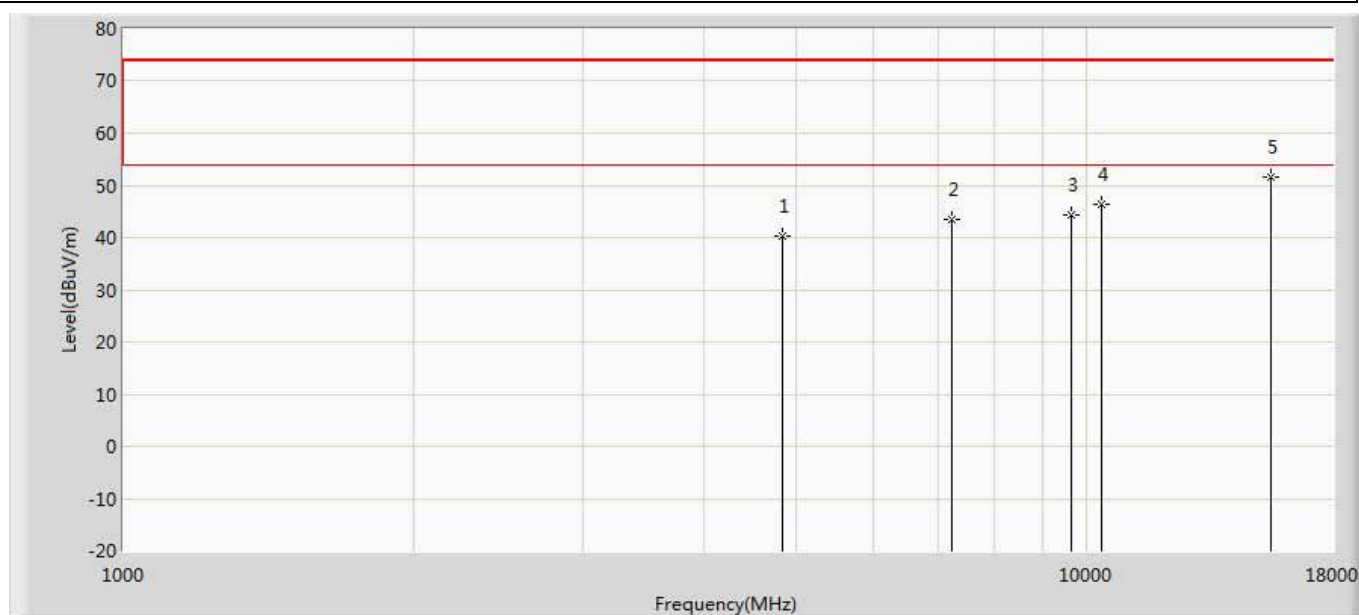
| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Probe (dB/m) | Cable (dB) | Amp (dB) | Ant Pos (cm) | Table Pos (deg) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|--------------|------------|----------|--------------|-----------------|------|
| 1  | *    | 30.136          | 32.161                 | 8.100                | -7.839          | 40.000         | 17.607       | 6.454      | 0.000    | 100          | 208             | QP   |
| 2  |      | 81.566          | 31.449                 | 15.800               | -8.551          | 40.000         | 8.887        | 6.763      | 0.000    | 200          | 31              | QP   |
| 3  |      | 98.900          | 27.983                 | 6.300                | -15.517         | 43.500         | 14.840       | 6.843      | 0.000    | 100          | 258             | QP   |
| 4  |      | 177.570         | 25.821                 | 7.900                | -17.679         | 43.500         | 10.726       | 7.194      | 0.000    | 100          | 162             | QP   |
| 5  |      | 267.165         | 25.434                 | 2.600                | -20.566         | 46.000         | 15.320       | 7.514      | 0.000    | 100          | 30              | QP   |
| 6  |      | 943.790         | 34.954                 | 0.600                | -11.046         | 46.000         | 25.163       | 9.191      | 0.000    | 100          | 230             | QP   |

Note:

1. " \* ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

### The worst case of Simultaneous Radiated Emission:

|                                                   |                      |
|---------------------------------------------------|----------------------|
| Engineer: Simon                                   |                      |
| Site: AC5                                         | Time: 2019/08/06     |
| Limit: FCC_Part15.209_RE(3m)                      | Margin: 0            |
| Probe: Horn_3117_00167055(1-18GHz)                | Polarity: Horizontal |
| EUT: Wireless Access Point                        | Power: AC 120V/60Hz  |
| Note: Simultaneous transmission with WIFI 2.4G+5G |                      |

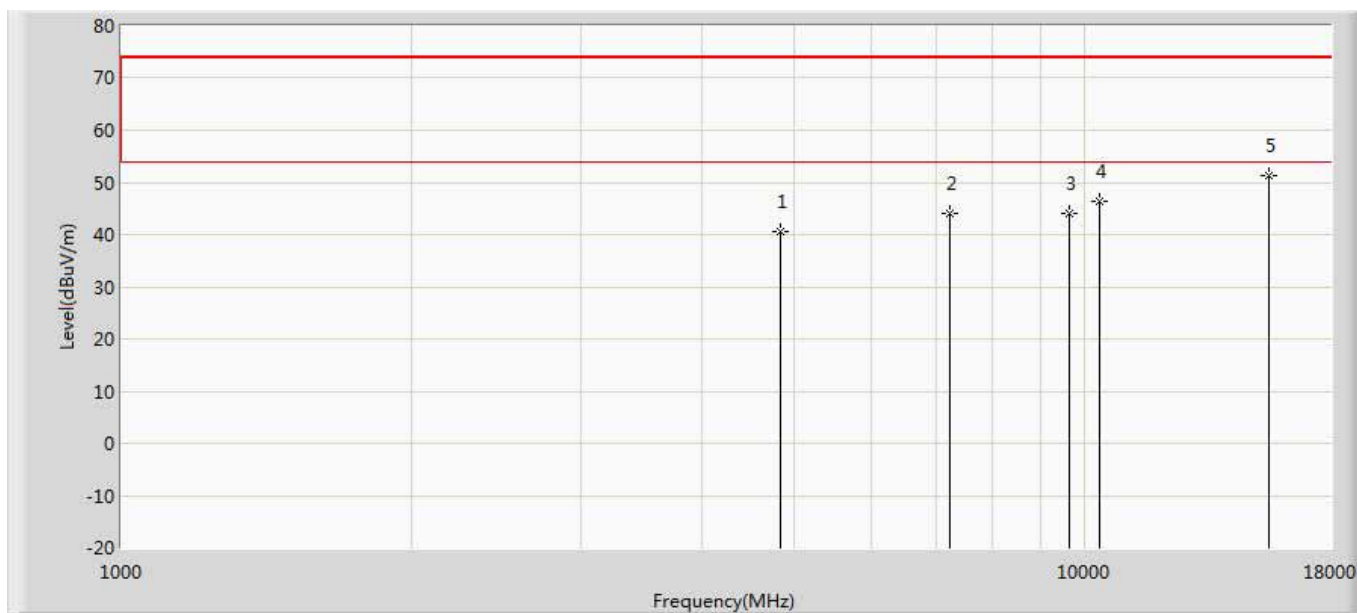


| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | 4824.000        | 40.417                 | 35.530               | -33.583         | 74.000         | 4.887       | PK   |
| 2  |      | 7236.000        | 43.428                 | 35.573               | -30.572         | 74.000         | 7.855       | PK   |
| 3  |      | 9648.000        | 44.253                 | 34.544               | -29.747         | 74.000         | 9.709       | PK   |
| 4  |      | 10360.000       | 46.476                 | 34.957               | -27.524         | 74.000         | 11.519      | PK   |
| 5  | *    | 15540.000       | 51.623                 | 33.766               | -22.377         | 74.000         | 17.857      | PK   |

#### Note:

1. " \* ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

|                                                   |                     |
|---------------------------------------------------|---------------------|
| Engineer: Simon                                   |                     |
| Site: AC5                                         | Time: 2019/08/06    |
| Limit: FCC_Part15.209_RE(3m)                      | Margin: 0           |
| Probe: Horn_3117_00167055(1-18GHz)                | Polarity: Vertical  |
| EUT: Wireless Access Point                        | Power: AC 120V/60Hz |
| Note: Simultaneous transmission with WIFI 2.4G+5G |                     |



| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      | 4824.000        | 40.511                 | 35.624               | -33.489         | 74.000         | 4.887       | PK   |
| 2  |      | 7236.000        | 44.145                 | 36.290               | -29.855         | 74.000         | 7.855       | PK   |
| 3  |      | 9648.000        | 44.159                 | 34.450               | -29.841         | 74.000         | 9.709       | PK   |
| 4  |      | 10360.000       | 46.426                 | 34.907               | -27.574         | 74.000         | 11.519      | PK   |
| 5  | *    | 15540.000       | 51.216                 | 33.359               | -22.784         | 74.000         | 17.857      | PK   |

Note:

1. " \* ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).



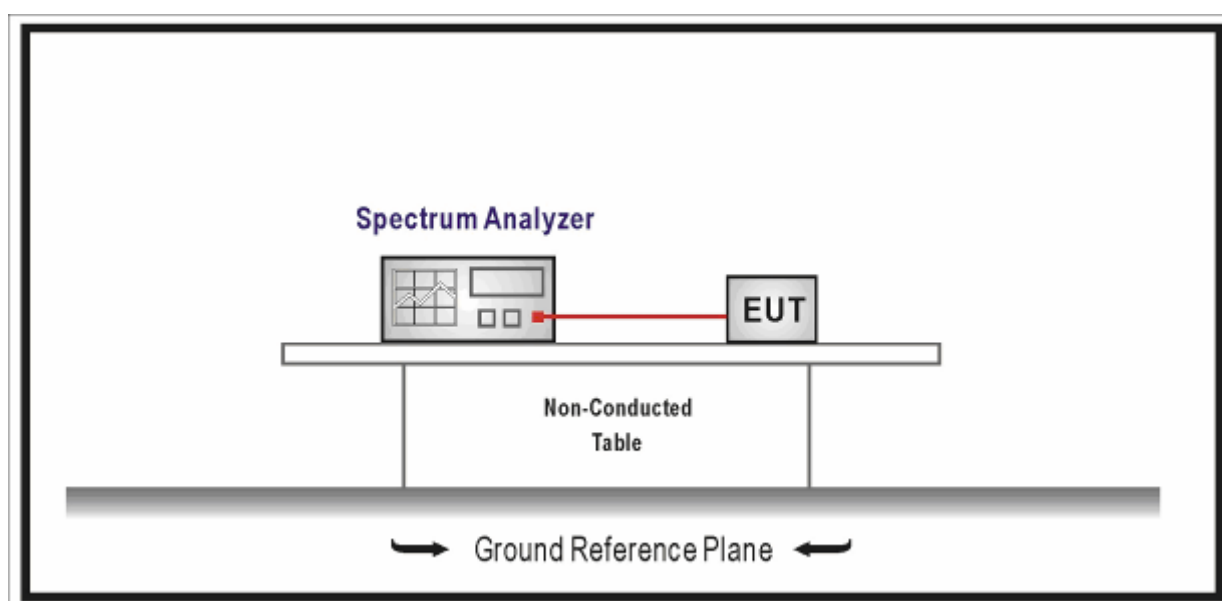
## 5. Emission bandwidth and occupied bandwidth

### 5.1. Test Equipment

| Emission bandwidth and occupied bandwidth / TR-8 |              |          |            |            |               |
|--------------------------------------------------|--------------|----------|------------|------------|---------------|
| Instrument                                       | Manufacturer | Type No. | Serial No. | Cal. Date  | Cal. Due Date |
| Spectrum Analyzer                                | Agilent      | N9010A   | MY48030494 | 2019.02.04 | 2020.02.03    |
| EXA Spectrum Analyzer                            | Keysight     | N9010A   | MY55370495 | 2019.04.09 | 2020.04.08    |
| MXA Signal Analyzer                              | Keysight     | N9020A   | MY56060147 | 2019.04.09 | 2020.04.08    |
| Temperature/Humidity Meter                       | zhichen      | ZC1-2    | TR8-TH     | 2019.04.10 | 2020.04.09    |

Note: All equipment are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

### 5.2. Test Setup



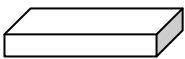
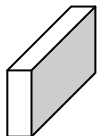
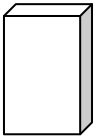
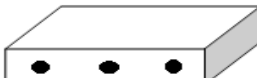
### 5.3. Limit

N/A

## 5.4. Test Procedure

| Test Method                         |                                                                 |         |                                                                 |
|-------------------------------------|-----------------------------------------------------------------|---------|-----------------------------------------------------------------|
|                                     | References Rule                                                 | Chapter | Description                                                     |
| <input type="checkbox"/>            | ANSI C63.10                                                     | 12.4    | Emission bandwidth and occupied bandwidth                       |
|                                     | <input type="checkbox"/> ANSI C63.10                            | 12.4.1  | Emission bandwidth (26dB)                                       |
|                                     | <input type="checkbox"/> ANSI C63.10                            | 12.4.2  | Occupied bandwidth (99%)                                        |
| <input checked="" type="checkbox"/> | FCC KDB 789033<br>D02v02r01                                     | C       | Bandwidth Measurement                                           |
|                                     | <input checked="" type="checkbox"/> FCC KDB 789033<br>D02v02r01 | C.1     | Emission Bandwidth (26dB)                                       |
|                                     | <input type="checkbox"/> FCC KDB 789033<br>D02v02r01            | C.2     | Minimum Emission Bandwidth for the band<br>5.725-5.85 GHz (6dB) |
| <input checked="" type="checkbox"/> | FCC KDB 789033<br>D02v02r01                                     | D       | 99 Percent Occupied Bandwidth                                   |

## 5.5.EUT test Axis definition

| Item            | Occupied bandwidth                  |                                                                                      |                                                                                      |                                                                                      |         |
|-----------------|-------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------|
| Device Category | <input checked="" type="checkbox"/> | Indoor use                                                                           |                                                                                      |                                                                                      |         |
|                 | <input type="checkbox"/>            | Outdoor use                                                                          |                                                                                      |                                                                                      |         |
|                 | <input type="checkbox"/>            | Fix position use                                                                     |                                                                                      |                                                                                      |         |
|                 | <input type="checkbox"/>            | Client use                                                                           |                                                                                      |                                                                                      |         |
| Test mode       | Mode 1-9                            |                                                                                      |                                                                                      |                                                                                      |         |
| Test method     | <input type="checkbox"/>            | Radiated                                                                             |                                                                                      |                                                                                      |         |
|                 |                                     | X Axis                                                                               | Y Axis                                                                               | Z Axis                                                                               |         |
|                 |                                     |    |  |  |         |
|                 |                                     | Worst Axis <input type="checkbox"/>                                                  | Worst Axis <input type="checkbox"/>                                                  | Worst Axis <input type="checkbox"/>                                                  |         |
|                 | <input checked="" type="checkbox"/> | Conducted                                                                            |                                                                                      |                                                                                      |         |
|                 | <input checked="" type="checkbox"/> | Chain 1                                                                              |                                                                                      |                                                                                      |         |
|                 |                                     |  |                                                                                      |                                                                                      |         |
|                 | <input checked="" type="checkbox"/> | Chain 1                                                                              | Chain 2                                                                              |                                                                                      |         |
|                 |                                     |  |                                                                                      |                                                                                      |         |
|                 | <input type="checkbox"/>            | Chain 1                                                                              | Chain 2                                                                              | Chain 3                                                                              |         |
|                 |                                     |  |                                                                                      |                                                                                      |         |
|                 | <input type="checkbox"/>            | Chain 1                                                                              | Chain 2                                                                              | Chain 3                                                                              | Chain 4 |
|                 |                                     |  |                                                                                      |                                                                                      |         |

## 5.6. Test Result

|              |                         |               |                |
|--------------|-------------------------|---------------|----------------|
| Product Name | : Wireless Access Point | Power         | : AC 120V/60Hz |
| Test Mode    | : Mode 1~9              | Test Site     | : TR8          |
| Test Date    | : 2019.07.12            | Test Engineer | : Simon        |

### Mode 1: Transmit by 802.11a

| Channel No. | Frequency (MHz) | 26dB Occupied Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) | Lower/Higher Frequency (MHz) | Result |
|-------------|-----------------|-------------------------------|------------------------------|------------------------------|--------|
| CH36        | 5180            | 28.86                         | 17.326                       | 5171.337                     | Pass   |
| CH44        | 5220            | 26.34                         | 17.093                       | N/A                          | Pass   |
| CH48        | 5240            | 24.74                         | 17.073                       | 5248.537                     | Pass   |
| CH149       | 5745            | 22.18                         | 17.094                       | N/A                          | Pass   |
| CH157       | 5785            | 21.55                         | 17.029                       | N/A                          | Pass   |
| CH165       | 5825            | 21.34                         | 16.907                       | N/A                          | Pass   |

### Mode 2: Transmit by 802.11n(20MHz)

| Channel No. | Frequency (MHz) | 26dB Occupied Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) | Lower/Higher Frequency (MHz) | Result |
|-------------|-----------------|-------------------------------|------------------------------|------------------------------|--------|
| CH36        | 5180            | 29.57                         | 18.303                       | 5170.849                     | Pass   |
| CH44        | 5220            | 29.62                         | 18.147                       | N/A                          | Pass   |
| CH48        | 5240            | 29.50                         | 18.142                       | 5249.071                     | Pass   |
| CH149       | 5745            | 24.00                         | 18.222                       | N/A                          | Pass   |
| CH157       | 5785            | 25.29                         | 18.323                       | N/A                          | Pass   |
| CH165       | 5825            | 23.32                         | 18.088                       | N/A                          | Pass   |

### Mode 3: Transmit by 802.11n(40MHz)

| Channel No. | Frequency (MHz) | 26dB Occupied Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) | Lower/Higher Frequency (MHz) | Result |
|-------------|-----------------|-------------------------------|------------------------------|------------------------------|--------|
| CH38        | 5190            | 59.40                         | 36.663                       | 5171.669                     | Pass   |
| CH46        | 5230            | 59.52                         | 36.840                       | 5248.420                     | Pass   |
| CH151       | 5755            | 59.75                         | 36.630                       | N/A                          | Pass   |
| CH159       | 5795            | 59.65                         | 36.481                       | N/A                          | Pass   |

**Mode 4: Transmit by 802.11ac(20MHz)**

| Channel No. | Frequency (MHz) | 26dB Occupied Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) | Lower/Higher Frequency (MHz) | Result |
|-------------|-----------------|-------------------------------|------------------------------|------------------------------|--------|
| CH36        | 5180            | 28.64                         | 18.249                       | 5170.876                     | Pass   |
| CH44        | 5220            | 27.96                         | 18.139                       | N/A                          | Pass   |
| CH48        | 5240            | 25.66                         | 18.127                       | 5249.064                     | Pass   |
| CH149       | 5745            | 22.45                         | 18.079                       | N/A                          | Pass   |
| CH157       | 5785            | 21.89                         | 18.071                       | N/A                          | Pass   |
| CH165       | 5825            | 26.47                         | 18.121                       | N/A                          | Pass   |

**Mode 5: Transmit by 802.11ac(40MHz)**

| Channel No. | Frequency (MHz) | 26dB Occupied Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) | Lower/Higher Frequency (MHz) | Result |
|-------------|-----------------|-------------------------------|------------------------------|------------------------------|--------|
| CH38        | 5190            | 59.30                         | 36.621                       | 5171.690                     | Pass   |
| CH46        | 5230            | 59.00                         | 36.684                       | 5248.342                     | Pass   |
| CH151       | 5755            | 49.22                         | 36.468                       | N/A                          | Pass   |
| CH159       | 5795            | 47.33                         | 36.515                       | N/A                          | Pass   |

**Mode 6: Transmit by 802.11ac(80MHz)**

| Channel No. | Frequency (MHz) | 26dB Occupied Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) | Lower/Higher Frequency (MHz) | Result |
|-------------|-----------------|-------------------------------|------------------------------|------------------------------|--------|
| CH42        | 5210            | 112.3                         | 76.094                       | 5171.953/5248.047            | Pass   |
| CH155       | 5775            | 92.56                         | 75.911                       | N/A                          | Pass   |

**Mode 7: Transmit by 802.11ax(20MHz)**

| Channel No. | Frequency (MHz) | 26dB Occupied Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) | Lower/Higher Frequency (MHz) | Result |
|-------------|-----------------|-------------------------------|------------------------------|------------------------------|--------|
| CH36        | 5180            | 28.80                         | 19.192                       | 5170.404                     | Pass   |
| CH44        | 5220            | 28.25                         | 19.133                       | N/A                          | Pass   |
| CH48        | 5240            | 28.50                         | 19.139                       | 5249.570                     | Pass   |
| CH149       | 5745            | 25.45                         | 19.112                       | N/A                          | Pass   |
| CH157       | 5785            | 25.87                         | 19.114                       | N/A                          | Pass   |
| CH165       | 5825            | 23.40                         | 19.114                       | N/A                          | Pass   |

**Mode 8: Transmit by 802.11ax(40MHz)**

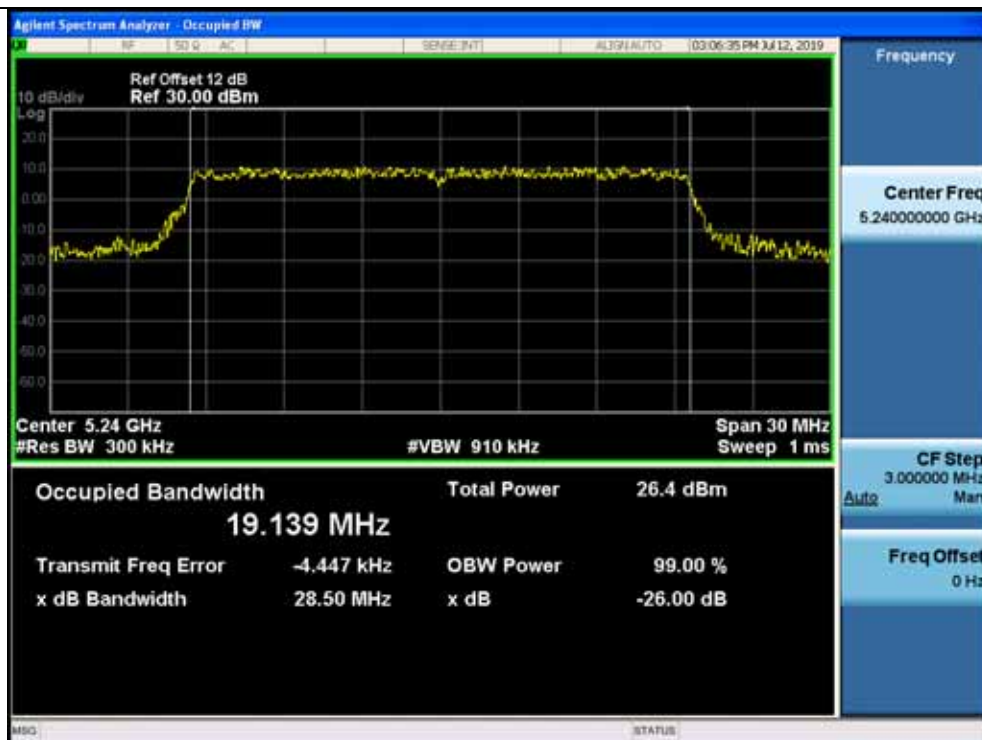
| Channel No. | Frequency (MHz) | 26dB Occupied Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) | Lower/Higher Frequency (MHz) | Result |
|-------------|-----------------|-------------------------------|------------------------------|------------------------------|--------|
| CH38        | 5190            | 56.12                         | 37.751                       | 5171.125                     | Pass   |
| CH46        | 5230            | 48.03                         | 37.660                       | 5248.830                     | Pass   |
| CH151       | 5755            | 43.16                         | 37.574                       | N/A                          | Pass   |
| CH159       | 5795            | 40.32                         | 37.616                       | N/A                          | Pass   |

**Mode 9: Transmit by 802.11ax(80MHz)**

| Channel No. | Frequency (MHz) | 26dB Occupied Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) | Lower/Higher Frequency (MHz) | Result |
|-------------|-----------------|-------------------------------|------------------------------|------------------------------|--------|
| CH42        | 5210            | 98.06                         | 77.181                       | 5171.410/5248.591            | Pass   |
| CH155       | 5775            | 81.54                         | 77.019                       | N/A                          | Pass   |

The worst case of Occupied Bandwidth as below:

**Mode 7: CH48 (5240MHz)**



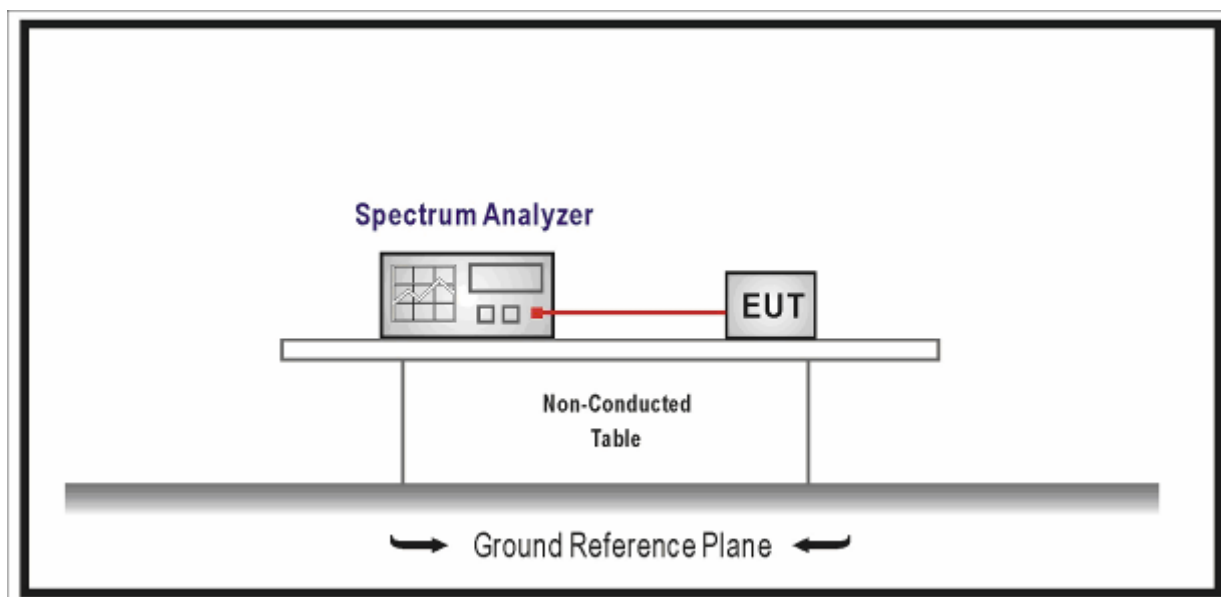
## 6. 6dB bandwidth

### 6.1. Test Equipment

| 6dB bandwidth / TR-8       |              |          |            |            |               |
|----------------------------|--------------|----------|------------|------------|---------------|
| Instrument                 | Manufacturer | Type No. | Serial No. | Cal. Date  | Cal. Due Date |
| Spectrum Analyzer          | Agilent      | N9010A   | MY48030494 | 2019.02.04 | 2020.02.03    |
| EXA Spectrum Analyzer      | Keysight     | N9010A   | MY55370495 | 2019.04.09 | 2020.04.08    |
| MXA Signal Analyzer        | Keysight     | N9020A   | MY56060147 | 2019.04.09 | 2020.04.08    |
| Temperature/Humidity Meter | zhichen      | ZC1-2    | TR8-TH     | 2019.04.10 | 2020.04.09    |

Note: All equipment are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

### 6.2. Test Setup



### 6.3. Limit

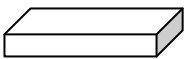
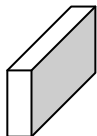
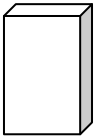
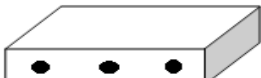
>500kHz



## 6.4. Test Procedure

| Test Method                         |                                                                 |         |                                                                 |
|-------------------------------------|-----------------------------------------------------------------|---------|-----------------------------------------------------------------|
|                                     | References Rule                                                 | Chapter | Description                                                     |
| <input type="checkbox"/>            | ANSI C63.10                                                     | 12.4    | Emission bandwidth and occupied bandwidth                       |
|                                     | <input type="checkbox"/> ANSI C63.10                            | 12.4.1  | Emission bandwidth (26dB)                                       |
|                                     | <input type="checkbox"/> ANSI C63.10                            | 12.4.2  | Occupied bandwidth (99%)                                        |
| <input checked="" type="checkbox"/> | FCC KDB 789033<br>D02v02r01                                     | C       | Bandwidth Measurement                                           |
|                                     | <input type="checkbox"/> FCC KDB 789033<br>D02v02r01            | C.1     | Emission Bandwidth (26dB)                                       |
|                                     | <input checked="" type="checkbox"/> FCC KDB 789033<br>D02v02r01 | C.2     | Minimum Emission Bandwidth for the band<br>5.725-5.85 GHz (6dB) |
| <input checked="" type="checkbox"/> | FCC KDB 789033<br>D02v02r01                                     | D       | 99 Percent Occupied Bandwidth                                   |

### 6.5.EUT test Axis definition

| Item            | 6dB bandwidth                       |                                                                                      |                                                                                      |                                                                                      |         |
|-----------------|-------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------|
| Device Category | <input checked="" type="checkbox"/> | Indoor use                                                                           |                                                                                      |                                                                                      |         |
|                 | <input type="checkbox"/>            | Outdoor use                                                                          |                                                                                      |                                                                                      |         |
|                 | <input type="checkbox"/>            | Fix position use                                                                     |                                                                                      |                                                                                      |         |
|                 | <input type="checkbox"/>            | Client use                                                                           |                                                                                      |                                                                                      |         |
| Test mode       | Mode 1-9                            |                                                                                      |                                                                                      |                                                                                      |         |
| Test method     | <input type="checkbox"/>            | Radiated                                                                             |                                                                                      |                                                                                      |         |
|                 |                                     | X Axis                                                                               | Y Axis                                                                               | Z Axis                                                                               |         |
|                 |                                     |    |  |  |         |
|                 |                                     | Worst Axis <input type="checkbox"/>                                                  | Worst Axis <input type="checkbox"/>                                                  | Worst Axis <input type="checkbox"/>                                                  |         |
|                 | <input checked="" type="checkbox"/> | Conducted                                                                            |                                                                                      |                                                                                      |         |
|                 | <input checked="" type="checkbox"/> | Chain 1                                                                              |                                                                                      |                                                                                      |         |
|                 |                                     |  |                                                                                      |                                                                                      |         |
|                 | <input checked="" type="checkbox"/> | Chain 1                                                                              | Chain 2                                                                              |                                                                                      |         |
|                 |                                     |  |                                                                                      |                                                                                      |         |
|                 | <input type="checkbox"/>            | Chain 1                                                                              | Chain 2                                                                              | Chain 3                                                                              |         |
|                 |                                     |  |                                                                                      |                                                                                      |         |
|                 | <input type="checkbox"/>            | Chain 1                                                                              | Chain 2                                                                              | Chain 3                                                                              | Chain 4 |
|                 |                                     |  |                                                                                      |                                                                                      |         |

## 6.6. Test Result

|              |                         |               |                |
|--------------|-------------------------|---------------|----------------|
| Product Name | : Wireless Access Point | Power         | : AC 120V/60Hz |
| Test Mode    | : Mode 1~9              | Test Site     | : TR8          |
| Test Date    | : 2019.07.12            | Test Engineer | : Simon        |

| Mode 1: Transmit by 802.11a         |                    |                        |                |        |
|-------------------------------------|--------------------|------------------------|----------------|--------|
| Channel No.                         | Frequency<br>(MHz) | 6dB Bandwidth<br>(MHz) | Limit<br>(kHz) | Result |
| 149                                 | 5745               | 16.37                  | >500           | Pass   |
| 157                                 | 5785               | 16.37                  |                | Pass   |
| 165                                 | 5825               | 16.37                  |                | Pass   |
| Mode 2: Transmit by 802.11n(20MHz)  |                    |                        |                |        |
| Channel No.                         | Frequency<br>(MHz) | 6dB Bandwidth<br>(MHz) | Limit<br>(kHz) | Result |
| 149                                 | 5745               | 17.62                  | >500           | Pass   |
| 157                                 | 5785               | 17.63                  |                | Pass   |
| 165                                 | 5825               | 17.61                  |                | Pass   |
| Mode 3: Transmit by 802.11n(40MHz)  |                    |                        |                |        |
| Channel No.                         | Frequency<br>(MHz) | 6dB Bandwidth<br>(MHz) | Limit<br>(kHz) | Result |
| 151                                 | 5755               | 36.43                  | >500           | Pass   |
| 159                                 | 5795               | 36.34                  |                | Pass   |
| Mode 4: Transmit by 802.11ac(20MHz) |                    |                        |                |        |
| Channel No.                         | Frequency<br>(MHz) | 6dB Bandwidth<br>(MHz) | Limit<br>(kHz) | Result |
| 149                                 | 5745               | 17.63                  | >500           | Pass   |
| 157                                 | 5785               | 17.65                  |                | Pass   |
| 165                                 | 5825               | 17.63                  |                | Pass   |

**Mode 5: Transmit by 802.11ac(40MHz)**

| Channel No. | Frequency (MHz) | 6dB Bandwidth (MHz) | Limit (kHz) | Result |
|-------------|-----------------|---------------------|-------------|--------|
| 151         | 5755            | 36.37               | >500        | Pass   |
| 159         | 5795            | 36.40               |             | Pass   |

**Mode 6: Transmit by 802.11ac(80MHz)**

| Channel No. | Frequency (MHz) | 6dB Bandwidth (MHz) | Limit (kHz) | Result |
|-------------|-----------------|---------------------|-------------|--------|
| 155         | 5775            | 76.15               | >500        | Pass   |

**Mode 7: Transmit by 802.11ax(20MHz)**

| Channel No. | Frequency (MHz) | 6dB Bandwidth (MHz) | Limit (kHz) | Result |
|-------------|-----------------|---------------------|-------------|--------|
| 149         | 5745            | 18.95               | >500        | Pass   |
| 157         | 5785            | 18.85               |             | Pass   |
| 165         | 5825            | 18.99               |             | Pass   |

**Mode 8: Transmit by 802.11ax(40MHz)**

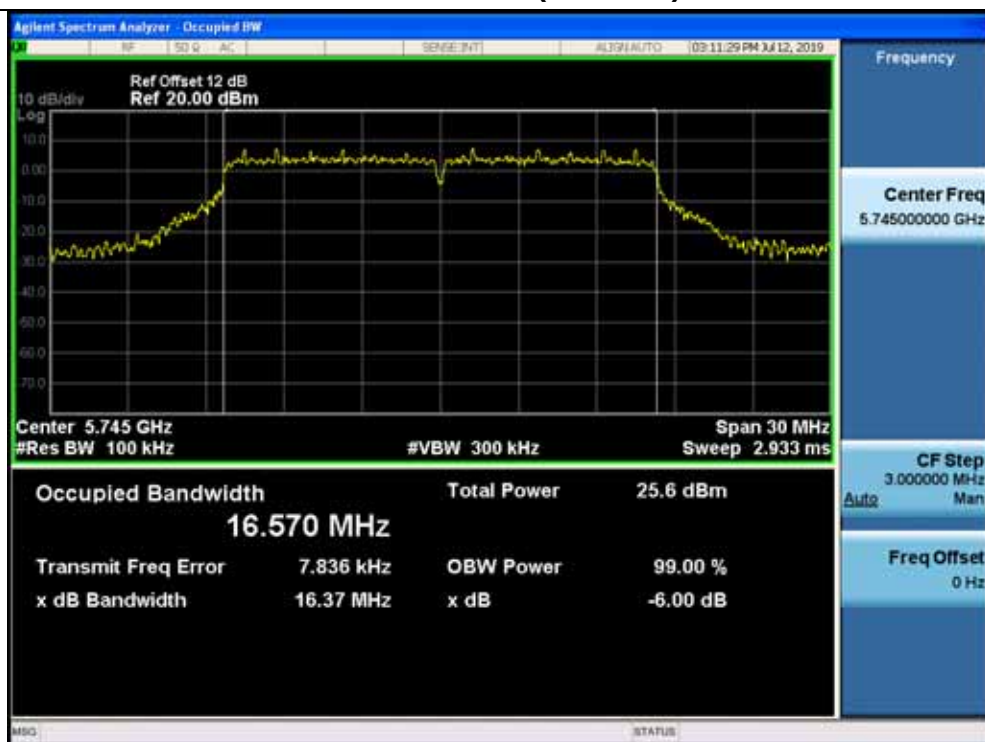
| Channel No. | Frequency (MHz) | 6dB Bandwidth (MHz) | Limit (kHz) | Result |
|-------------|-----------------|---------------------|-------------|--------|
| 151         | 5755            | 37.67               | >500        | Pass   |
| 159         | 5795            | 37.58               |             | Pass   |

**Mode 9: Transmit by 802.11ax(80MHz)**

| Channel No. | Frequency (MHz) | 6dB Bandwidth (MHz) | Limit (kHz) | Result |
|-------------|-----------------|---------------------|-------------|--------|
| 155         | 5775            | 77.33               | >500        | Pass   |

The worst case of 6dB Bandwidth as below:

**Mode 1: CH149 (5745MHz)**



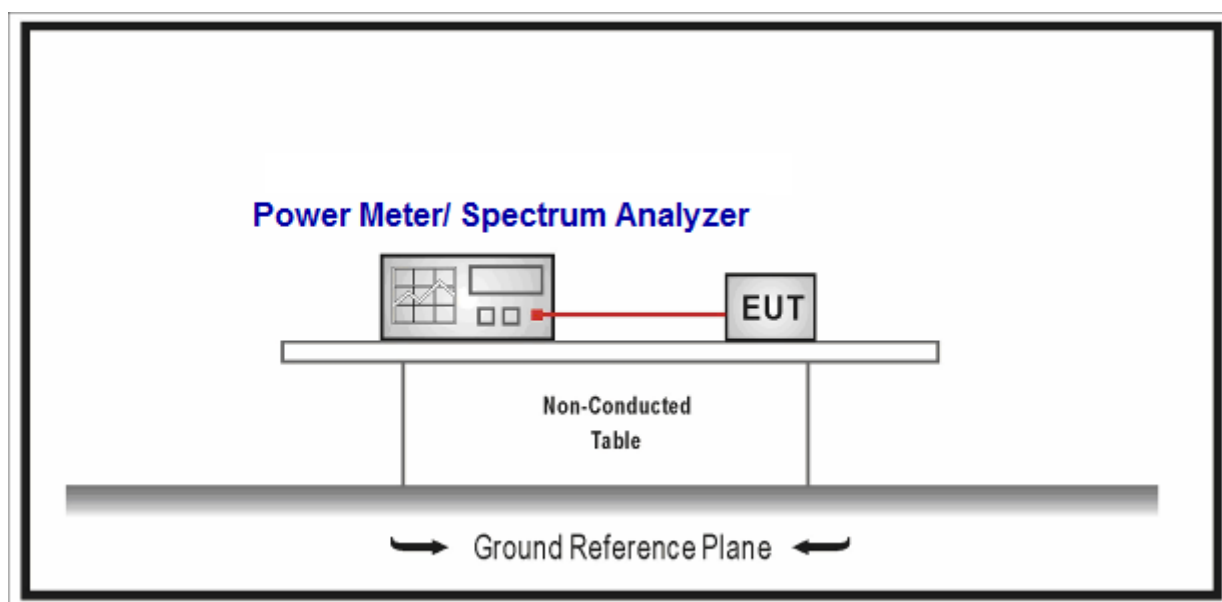
## 7. Power Output

### 7.1. Test Equipment

| Power Output / TR-8        |              |          |            |            |               |
|----------------------------|--------------|----------|------------|------------|---------------|
| Instrument                 | Manufacturer | Type No. | Serial No. | Cal. Date  | Cal. Due Date |
| Spectrum Analyzer          | Agilent      | E4446A   | MY45300103 | 2019.01.04 | 2020.01.03    |
| Spectrum Analyzer          | Agilent      | N9010A   | MY48030494 | 2019.02.04 | 2020.02.03    |
| Wideband Peak Power Meter  | Anritsu      | ML2495A  | 0905006    | 2018.10.14 | 2019.10.13    |
| Power Sensor               | Anritsu      | MA2411B  | 0846014    | 2018.10.14 | 2019.10.13    |
| Temperature/Humidity Meter | zhicheng     | ZC1-2    | TR8-TH     | 2019.04.10 | 2020.04.09    |

Note: All equipment are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

### 7.2. Test Setup



### 7.3. Limit

| Fundamental emission output power Limit                      |                                                                                                                                                                                                                                                                         |
|--------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/>                          | For the band 5.15-5.25 GHz                                                                                                                                                                                                                                              |
| <input type="checkbox"/>                                     | Outdoor access point: the maximum conducted output power shall not exceed 1 W. If $G_{TX} > 6\text{dBi}$ , then $P_{out} \leq 30 - (G_{TX} - 6)$ and $\leq 125\text{mW}$ at any angle above 30 degrees                                                                  |
| <input checked="" type="checkbox"/>                          | Indoor access point: the maximum conducted output power shall not exceed 1 W. If $G_{TX} > 6\text{dBi}$ , then $P_{out} \leq 30 - (G_{TX} - 6)$                                                                                                                         |
| <input type="checkbox"/>                                     | Fixed point-to-point access points: the maximum conducted output power shall not exceed 1 W. If $G_{TX} > 23\text{dBi}$ , then $P_{out} \leq 30 - (G_{TX} - 23)$                                                                                                        |
| <input type="checkbox"/>                                     | Mobile and portable client devices: the maximum conducted output power shall not exceed 250mW. If $G_{TX} > 6\text{dBi}$ , then $P_{out} \leq 24 - (G_{TX} - 6)$                                                                                                        |
| <input type="checkbox"/>                                     | For the band 5.25-5.35 GHz:                                                                                                                                                                                                                                             |
| <input type="checkbox"/>                                     | The maximum conducted output power shall not exceed 250mW or $11\text{dBm} + 10 \log B$ , where B is the 26dB emission bandwidth in MHz. If $G_{TX} > 6\text{dBi}$ , then $P_{out} \leq (\text{The lesser of } 24 \text{ or } 11\text{dBm} + 10 \log B) - (G_{TX} - 6)$ |
| <input type="checkbox"/>                                     | For the 5.47-5.725 GHz:                                                                                                                                                                                                                                                 |
| <input type="checkbox"/>                                     | The maximum conducted output power shall not exceed 250mW or $11\text{dBm} + 10 \log B$ , where B is the 26dB emission bandwidth in MHz. If $G_{TX} > 6\text{dBi}$ , then $P_{out} \leq (\text{The lesser of } 24 \text{ or } 11\text{dBm} + 10 \log B) - (G_{TX} - 6)$ |
| <input checked="" type="checkbox"/>                          | For the band 5.725-5.85 GHz:                                                                                                                                                                                                                                            |
| <input checked="" type="checkbox"/>                          | Point-to-multipoint systems (P2M): the maximum conducted output power ( $P_{out}$ ) shall not exceed the lesser of 1 W. If $G_{TX} > 6 \text{ dBi}$ , then $P_{out} = 30 - (G_{TX} - 6)$                                                                                |
| <input type="checkbox"/>                                     | Point-to-point systems (P2P): the maximum conducted output power ( $P_{out}$ ) shall not exceed the lesser of 1 W                                                                                                                                                       |
| Note 1 : $G_{TX}$ directional gain of transmitting antennas. |                                                                                                                                                                                                                                                                         |
| Note 2 : $P_{out}$ is maximum peak conducted output power .  |                                                                                                                                                                                                                                                                         |

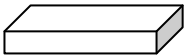
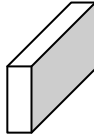
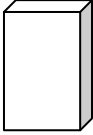
## 7.4. Test Procedure

| Fundamental emission output power Test Method |                                     |                                                 |          |                                                                                           |
|-----------------------------------------------|-------------------------------------|-------------------------------------------------|----------|-------------------------------------------------------------------------------------------|
|                                               | References Rule                     |                                                 | Chapter  | Description                                                                               |
| <input checked="" type="checkbox"/>           | ANSI C63.10                         |                                                 | 12.3     | Maximum conducted output power                                                            |
|                                               | <input checked="" type="checkbox"/> | ANSI C63.10                                     | 12.3.2   | Maximum conducted output power measurement using a spectrum analyzer (SA) or EMI receiver |
|                                               |                                     | <input type="checkbox"/> ANSI C63.10            | 12.3.2.2 | Method SA-1                                                                               |
|                                               |                                     | <input type="checkbox"/> ANSI C63.10            | 12.3.2.3 | Method SA-1A (alternative)                                                                |
|                                               |                                     | <input checked="" type="checkbox"/> ANSI C63.10 | 12.3.2.4 | Method SA-2                                                                               |
|                                               |                                     | <input type="checkbox"/> ANSI C63.10            | 12.3.2.5 | Method SA-2A (alternative)                                                                |
|                                               |                                     | <input type="checkbox"/> ANSI C63.10            | 12.3.2.6 | Method SA-3                                                                               |
|                                               |                                     | <input type="checkbox"/> ANSI C63.10            | 12.3.2.7 | Method SA-3A (alternative)                                                                |
|                                               | <input checked="" type="checkbox"/> | ANSI C63.10                                     | 12.3.3   | Maximum conducted output power using a power meter                                        |
|                                               |                                     | <input type="checkbox"/> ANSI C63.10            | 12.3.3.1 | Method PM                                                                                 |
|                                               |                                     | <input checked="" type="checkbox"/> ANSI C63.10 | 12.3.3.2 | Method PM-G                                                                               |



| Directional Gain Calculations for In-Band test method |                                     |             |             |                                                                   |
|-------------------------------------------------------|-------------------------------------|-------------|-------------|-------------------------------------------------------------------|
|                                                       | References Rule                     |             | Chapter     | Description                                                       |
| <input type="checkbox"/>                              | KDB 662911                          |             | F2)a)       | Basic methodology                                                 |
|                                                       | <input type="checkbox"/>            | KDB 662911  | F2)a) (i)   | transmit signals are correlated                                   |
|                                                       | <input type="checkbox"/>            | KDB 662911  | F2)a) (ii)  | transmit signals are uncorrelated                                 |
| <input type="checkbox"/>                              | KDB 662911                          |             | F2)b)       | Sectorized antenna systems.                                       |
| <input type="checkbox"/>                              | KDB 662911                          |             | F2)c)       | Cross-polarized antennas                                          |
|                                                       | <input type="checkbox"/>            | ANSI C63.10 | F2)c) (i)   | Cross-polarized antennas                                          |
|                                                       | <input type="checkbox"/>            | ANSI C63.10 | F2)c) (ii)  | Multiple antennas                                                 |
| <input checked="" type="checkbox"/>                   | KDB 662911                          |             | F2)e)       | Spatial stream                                                    |
|                                                       | <input type="checkbox"/>            | KDB 662911  | F2)e) (i)   | Antennas have the same gain                                       |
|                                                       | <input checked="" type="checkbox"/> | KDB 662911  | F2)e) (ii)  | Antenna have the different gain with one spatial stream           |
|                                                       | <input type="checkbox"/>            | KDB 662911  | F2)e) (iii) | Antenna have the different gain with more than one spatial stream |
| <input checked="" type="checkbox"/>                   | KDB 662911                          |             | F2)f)       | Cyclic Delay Diversity (CDD)                                      |
|                                                       | <input type="checkbox"/>            | KDB 662911  | F2)f) (i)   | Antennas have the same gain                                       |
|                                                       | <input checked="" type="checkbox"/> | KDB 662911  | F2)f) (ii)  | Antenna have the different gain with one spatial stream           |
|                                                       | <input type="checkbox"/>            | KDB 662911  | F2)f) (iii) | Antenna have the different gain with more than one spatial stream |

## 7.5.EUT test Axis definition

| Item            | output power                        |                                                                                      |                                                                                      |                                                                                      |         |
|-----------------|-------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------|
| Device Category | <input checked="" type="checkbox"/> | Indoor use                                                                           |                                                                                      |                                                                                      |         |
|                 | <input type="checkbox"/>            | Outdoor use                                                                          |                                                                                      |                                                                                      |         |
|                 | <input type="checkbox"/>            | Fix position use                                                                     |                                                                                      |                                                                                      |         |
|                 | <input type="checkbox"/>            | Client use                                                                           |                                                                                      |                                                                                      |         |
| Test mode       | Mode 1-9                            |                                                                                      |                                                                                      |                                                                                      |         |
| Test method     | <input type="checkbox"/>            | Radiated                                                                             |                                                                                      |                                                                                      |         |
|                 |                                     | X Axis                                                                               | Y Axis                                                                               | Z Axis                                                                               |         |
|                 |                                     |     |  |  |         |
|                 |                                     | Worst Axis <input type="checkbox"/>                                                  | Worst Axis <input type="checkbox"/>                                                  | Worst Axis <input type="checkbox"/>                                                  |         |
|                 | <input checked="" type="checkbox"/> | Conducted                                                                            |                                                                                      |                                                                                      |         |
|                 | <input checked="" type="checkbox"/> | Chain 1                                                                              |                                                                                      |                                                                                      |         |
|                 |                                     |  |                                                                                      |                                                                                      |         |
|                 | <input checked="" type="checkbox"/> | Chain 1                                                                              | Chain 2                                                                              |                                                                                      |         |
|                 |                                     |  |                                                                                      |                                                                                      |         |
|                 | <input type="checkbox"/>            | Chain 1                                                                              | Chain 2                                                                              | Chain 3                                                                              |         |
|                 |                                     |  |                                                                                      |                                                                                      |         |
|                 | <input type="checkbox"/>            | Chain 1                                                                              | Chain 2                                                                              | Chain 3                                                                              | Chain 4 |
|                 |                                     |  |                                                                                      |                                                                                      |         |

## 7.6. Test Result

|              |   |                       |               |   |              |
|--------------|---|-----------------------|---------------|---|--------------|
| Product Name | : | Wireless Access Point | Power         | : | AC 120V/60Hz |
| Test Mode    | : | Mode 1~9              | Test Site     | : | TR8          |
| Test Date    | : | 2019.07.12            | Test Engineer | : | Simon        |

### ETH1:

| Mode 1: Transmit by 802.11a with SISO |                 |                        |       |                   |       |             |        |
|---------------------------------------|-----------------|------------------------|-------|-------------------|-------|-------------|--------|
| Channel No.                           | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) |       | Limit (dBm) | Result |
|                                       |                 | Ant1                   | Ant2  | Ant1              | Ant2  |             |        |
| CH36                                  | 5180            | 18.17                  | 18.05 | 18.17             | 18.05 | 30.00       | Pass   |
| CH40                                  | 5200            | 18.41                  | 18.36 | 18.41             | 18.36 | 30.00       | Pass   |
| CH44                                  | 5220            | 18.52                  | 18.44 | 18.52             | 18.44 | 30.00       | Pass   |
| CH48                                  | 5240            | 18.38                  | 18.27 | 18.38             | 18.27 | 30.00       | Pass   |

| Mode 1: Transmit by 802.11a with CDD |                 |                        |       |                   |             |        |
|--------------------------------------|-----------------|------------------------|-------|-------------------|-------------|--------|
| Channel No.                          | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm) | Result |
|                                      |                 | Ant1                   | Ant2  |                   |             |        |
| CH36                                 | 5180            | 17.84                  | 17.61 | 20.74             | 30.00       | Pass   |
| CH40                                 | 5200            | 18.46                  | 18.42 | 21.45             | 30.00       | Pass   |
| CH44                                 | 5220            | 18.48                  | 18.33 | 21.42             | 30.00       | Pass   |
| CH48                                 | 5240            | 18.37                  | 18.29 | 21.34             | 30.00       | Pass   |

| Mode 2: Transmit by 802.11n(20MHz) with SISO |                 |                        |       |                   |       |             |        |
|----------------------------------------------|-----------------|------------------------|-------|-------------------|-------|-------------|--------|
| Channel No.                                  | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) |       | Limit (dBm) | Result |
|                                              |                 | Ant1                   | Ant2  | Ant1              | Ant2  |             |        |
| CH36                                         | 5180            | 18.26                  | 17.41 | 18.26             | 17.41 | 30.00       | Pass   |
| CH40                                         | 5200            | 18.46                  | 18.27 | 18.46             | 18.27 | 30.00       | Pass   |
| CH44                                         | 5220            | 18.55                  | 18.39 | 18.55             | 18.39 | 30.00       | Pass   |
| CH48                                         | 5240            | 18.65                  | 18.41 | 18.65             | 18.41 | 30.00       | Pass   |

| Mode 2: Transmit by 802.11n(20MHz) with CDD |                 |                        |       |                   |             |        |
|---------------------------------------------|-----------------|------------------------|-------|-------------------|-------------|--------|
| Channel No.                                 | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm) | Result |
|                                             |                 | Ant1                   | Ant2  |                   |             |        |
| CH36                                        | 5180            | 17.55                  | 17.11 | 20.35             | 30.00       | Pass   |
| CH40                                        | 5200            | 18.65                  | 18.45 | 21.56             | 30.00       | Pass   |
| CH44                                        | 5220            | 18.58                  | 18.33 | 21.47             | 30.00       | Pass   |
| CH48                                        | 5240            | 18.68                  | 18.56 | 21.63             | 30.00       | Pass   |

| Mode 2: Transmit by 802.11n(20MHz) with Beam-forming |                 |                        |       |                   |                    |        |
|------------------------------------------------------|-----------------|------------------------|-------|-------------------|--------------------|--------|
| Channel No.                                          | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm)        | Result |
|                                                      |                 | Ant1                   | Ant2  |                   |                    |        |
| CH36                                                 | 5180            | 17.18                  | 16.98 | 20.09             | 29.03/30.00(note1) | Pass   |
| CH40                                                 | 5200            | 18.41                  | 18.23 | 21.33             | 29.03/30.00(note1) | Pass   |
| CH44                                                 | 5220            | 18.77                  | 18.69 | 21.74             | 29.03/30.00(note1) | Pass   |
| CH48                                                 | 5240            | 18.71                  | 18.56 | 21.65             | 29.03/30.00(note1) | Pass   |

Note1: 29.03dBm is AP305C power limit, 30dBm is AP305CX power limit.

| Mode 3: Transmit by 802.11n(40MHz) with SISO |                 |                        |       |                   |       |             |        |
|----------------------------------------------|-----------------|------------------------|-------|-------------------|-------|-------------|--------|
| Channel No.                                  | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) |       | Limit (dBm) | Result |
|                                              |                 | Ant1                   | Ant2  | Ant1              | Ant2  |             |        |
| CH38                                         | 5190            | 17.03                  | 16.01 | 17.03             | 16.01 | 30.00       | Pass   |
| CH46                                         | 5230            | 18.64                  | 18.03 | 18.64             | 18.03 | 30.00       | Pass   |

| Mode 3: Transmit by 802.11n(40MHz) with CDD |                 |                        |       |                   |             |        |
|---------------------------------------------|-----------------|------------------------|-------|-------------------|-------------|--------|
| Channel No.                                 | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm) | Result |
|                                             |                 | Ant1                   | Ant2  |                   |             |        |
| CH38                                        | 5190            | 15.89                  | 15.26 | 18.60             | 30.00       | Pass   |
| CH46                                        | 5230            | 18.72                  | 18.29 | 21.52             | 30.00       | Pass   |

| Mode 3: Transmit by 802.11n(40MHz) with Beam-forming |                 |                        |       |                   |                    |        |
|------------------------------------------------------|-----------------|------------------------|-------|-------------------|--------------------|--------|
| Channel No.                                          | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm)        | Result |
|                                                      |                 | Ant1                   | Ant2  |                   |                    |        |
| CH38                                                 | 5190            | 16.03                  | 15.21 | 18.65             | 29.03/30.00(note1) | Pass   |
| CH46                                                 | 5230            | 18.64                  | 18.12 | 21.40             | 29.03/30.00(note1) | Pass   |

Note1: 29.03dBm is AP305C power limit, 30dBm is AP305CX power limit.

| Mode 4: Transmit by 802.11ac(20MHz) with SISO |                 |                        |       |                   |       |             |        |
|-----------------------------------------------|-----------------|------------------------|-------|-------------------|-------|-------------|--------|
| Channel No.                                   | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) |       | Limit (dBm) | Result |
|                                               |                 | Ant1                   | Ant2  | Ant1              | Ant2  |             |        |
| CH36                                          | 5180            | 18.51                  | 18.03 | 18.51             | 18.03 | 30.00       | Pass   |
| CH40                                          | 5200            | 18.64                  | 18.94 | 18.64             | 18.94 | 30.00       | Pass   |
| CH44                                          | 5220            | 18.81                  | 18.75 | 18.81             | 18.75 | 30.00       | Pass   |
| CH48                                          | 5240            | 18.74                  | 18.66 | 18.74             | 18.66 | 30.00       | Pass   |

| Mode 4: Transmit by 802.11ac(20MHz) with CDD |                 |                        |       |                   |             |        |
|----------------------------------------------|-----------------|------------------------|-------|-------------------|-------------|--------|
| Channel No.                                  | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm) | Result |
|                                              |                 | Ant1                   | Ant2  |                   |             |        |
| CH36                                         | 5180            | 17.61                  | 17.49 | 20.56             | 30.00       | Pass   |
| CH40                                         | 5200            | 18.76                  | 18.97 | 21.88             | 30.00       | Pass   |
| CH44                                         | 5220            | 18.54                  | 18.67 | 21.62             | 30.00       | Pass   |
| CH48                                         | 5240            | 18.65                  | 18.77 | 21.72             | 30.00       | Pass   |

| Mode 4: Transmit by 802.11ac(20MHz) with Beam-forming |                 |                        |       |                   |                    |        |
|-------------------------------------------------------|-----------------|------------------------|-------|-------------------|--------------------|--------|
| Channel No.                                           | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm)        | Result |
|                                                       |                 | Ant1                   | Ant2  |                   |                    |        |
| CH36                                                  | 5180            | 17.46                  | 17.28 | 20.38             | 29.03/30.00(note1) | Pass   |
| CH40                                                  | 5200            | 18.62                  | 18.73 | 21.69             | 29.03/30.00(note1) | Pass   |
| CH44                                                  | 5220            | 18.52                  | 18.65 | 21.60             | 29.03/30.00(note1) | Pass   |
| CH48                                                  | 5240            | 18.44                  | 18.59 | 21.53             | 29.03/30.00(note1) | Pass   |

Note1: 29.03dBm is AP305C power limit, 30dBm is AP305CX power limit.

| Mode 5: Transmit by 802.11ac(40MHz) with SISO |                 |                        |       |                   |       |             |        |
|-----------------------------------------------|-----------------|------------------------|-------|-------------------|-------|-------------|--------|
| Channel No.                                   | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) |       | Limit (dBm) | Result |
|                                               |                 | Ant1                   | Ant2  | Ant1              | Ant2  |             |        |
| CH38                                          | 5190            | 16.86                  | 15.81 | 16.86             | 15.81 | 30.00       | Pass   |
| CH46                                          | 5230            | 18.16                  | 18.11 | 18.16             | 18.11 | 30.00       | Pass   |

| Mode 5: Transmit by 802.11ac(40MHz) with CDD |                 |                        |       |                   |             |        |
|----------------------------------------------|-----------------|------------------------|-------|-------------------|-------------|--------|
| Channel No.                                  | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm) | Result |
|                                              |                 | Ant1                   | Ant2  |                   |             |        |
| CH38                                         | 5190            | 15.72                  | 15.77 | 18.76             | 30.00       | Pass   |
| CH46                                         | 5230            | 18.01                  | 18.26 | 21.15             | 30.00       | Pass   |

| Mode 5: Transmit by 802.11ac(40MHz) with Beam-forming |                 |                        |       |                   |                    |        |
|-------------------------------------------------------|-----------------|------------------------|-------|-------------------|--------------------|--------|
| Channel No.                                           | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm)        | Result |
|                                                       |                 | Ant1                   | Ant2  |                   |                    |        |
| CH38                                                  | 5190            | 15.53                  | 15.61 | 18.58             | 29.03/30.00(note1) | Pass   |
| CH46                                                  | 5230            | 17.88                  | 18.13 | 21.02             | 29.03/30.00(note1) | Pass   |

Note1: 29.03dBm is AP305C power limit, 30dBm is AP305CX power limit.

## Mode 6: Transmit by 802.11ac(80MHz) with SISO

| Channel No. | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) |       | Limit (dBm) | Result |
|-------------|-----------------|------------------------|-------|-------------------|-------|-------------|--------|
|             |                 | Ant1                   | Ant2  | Ant1              | Ant2  |             |        |
| CH42        | 5210            | 18.14                  | 16.87 | 18.14             | 16.87 | 30.00       | Pass   |

## Mode 6: Transmit by 802.11ac(80MHz) with CDD

| Channel No. | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm) | Result |
|-------------|-----------------|------------------------|-------|-------------------|-------------|--------|
|             |                 | Ant1                   | Ant2  |                   |             |        |
| CH42        | 5210            | 17.38                  | 16.67 | 20.05             | 30.00       | Pass   |

## Mode 6: Transmit by 802.11ac(80MHz) with Beam-forming

| Channel No. | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm)        | Result |
|-------------|-----------------|------------------------|-------|-------------------|--------------------|--------|
|             |                 | Ant1                   | Ant2  |                   |                    |        |
| CH42        | 5210            | 17.23                  | 16.44 | 19.86             | 29.03/30.00(note1) | Pass   |

Note1: 29.03dBm is AP305C power limit, 30dBm is AP305CX power limit.



| Mode 7: Transmit by 802.11ax(20MHz) with SISO |                 |                        |       |                   |       |             |        |
|-----------------------------------------------|-----------------|------------------------|-------|-------------------|-------|-------------|--------|
| Channel No.                                   | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) |       | Limit (dBm) | Result |
|                                               |                 | Ant1                   | Ant2  | Ant1              | Ant2  |             |        |
| CH36                                          | 5180            | 18.74                  | 16.78 | 18.74             | 16.78 | 30.00       | Pass   |
| CH40                                          | 5200            | 18.81                  | 19.45 | 18.81             | 19.45 | 30.00       | Pass   |
| CH44                                          | 5220            | 18.75                  | 18.89 | 18.75             | 18.89 | 30.00       | Pass   |
| CH48                                          | 5240            | 18.81                  | 18.95 | 18.81             | 18.95 | 30.00       | Pass   |

| Mode 7: Transmit by 802.11ax(20MHz) with CDD |                 |                        |       |                   |             |        |
|----------------------------------------------|-----------------|------------------------|-------|-------------------|-------------|--------|
| Channel No.                                  | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm) | Result |
|                                              |                 | Ant1                   | Ant2  |                   |             |        |
| CH36                                         | 5180            | 17.11                  | 17.31 | 20.22             | 30.00       | Pass   |
| CH40                                         | 5200            | 19.01                  | 19.49 | 22.27             | 30.00       | Pass   |
| CH44                                         | 5220            | 18.89                  | 19.08 | 22.00             | 30.00       | Pass   |
| CH48                                         | 5240            | 18.94                  | 19.12 | 22.04             | 30.00       | Pass   |

| Mode 7: Transmit by 802.11ax(20MHz) with Beam-forming |                 |                        |       |                   |                    |        |
|-------------------------------------------------------|-----------------|------------------------|-------|-------------------|--------------------|--------|
| Channel No.                                           | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm)        | Result |
|                                                       |                 | Ant1                   | Ant2  |                   |                    |        |
| CH36                                                  | 5180            | 16.98                  | 17.16 | 20.08             | 29.03/30.00(note1) | Pass   |
| CH40                                                  | 5200            | 18.89                  | 19.21 | 22.06             | 29.03/30.00(note1) | Pass   |
| CH44                                                  | 5220            | 18.88                  | 18.79 | 21.85             | 29.03/30.00(note1) | Pass   |
| CH48                                                  | 5240            | 18.41                  | 18.65 | 21.54             | 29.03/30.00(note1) | Pass   |

Note1: 29.03dBm is AP305C power limit, 30dBm is AP305CX power limit.

| Mode 8: Transmit by 802.11ax(40MHz) with SISO |                 |                        |       |                   |       |             |        |
|-----------------------------------------------|-----------------|------------------------|-------|-------------------|-------|-------------|--------|
| Channel No.                                   | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) |       | Limit (dBm) | Result |
|                                               |                 | Ant1                   | Ant2  | Ant1              | Ant2  |             |        |
| CH38                                          | 5190            | 17.53                  | 16.17 | 17.53             | 16.17 | 30.00       | Pass   |
| CH46                                          | 5230            | 19.32                  | 18.71 | 19.32             | 18.71 | 30.00       | Pass   |

| Mode 8: Transmit by 802.11ax(40MHz) with CDD |                 |                        |       |                   |             |        |
|----------------------------------------------|-----------------|------------------------|-------|-------------------|-------------|--------|
| Channel No.                                  | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm) | Result |
|                                              |                 | Ant1                   | Ant2  |                   |             |        |
| CH38                                         | 5190            | 16.89                  | 17.02 | 19.97             | 30.00       | Pass   |
| CH46                                         | 5230            | 19.43                  | 19.77 | 22.61             | 30.00       | Pass   |

| Mode 8: Transmit by 802.11ax(40MHz) with Beam-forming |                 |                        |       |                   |                    |        |
|-------------------------------------------------------|-----------------|------------------------|-------|-------------------|--------------------|--------|
| Channel No.                                           | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm)        | Result |
|                                                       |                 | Ant1                   | Ant2  |                   |                    |        |
| CH38                                                  | 5190            | 16.76                  | 16.97 | 19.88             | 29.03/30.00(note1) | Pass   |
| CH46                                                  | 5230            | 19.25                  | 19.58 | 22.43             | 29.03/30.00(note1) | Pass   |

Note1: 29.03dBm is AP305C power limit, 30dBm is AP305CX power limit.

| Mode 9: Transmit by 802.11ax(80MHz) with SISO |                 |                        |       |                   |       |             |        |
|-----------------------------------------------|-----------------|------------------------|-------|-------------------|-------|-------------|--------|
| Channel No.                                   | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) |       | Limit (dBm) | Result |
|                                               |                 | Ant1                   | Ant2  | Ant1              | Ant2  |             |        |
| CH42                                          | 5210            | 17.22                  | 16.26 | 17.22             | 16.26 | 30.00       | Pass   |

| Mode 9: Transmit by 802.11ax(80MHz) with CDD |                 |                        |       |                   |             |        |
|----------------------------------------------|-----------------|------------------------|-------|-------------------|-------------|--------|
| Channel No.                                  | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm) | Result |
|                                              |                 | Ant1                   | Ant2  |                   |             |        |
| CH42                                         | 5210            | 16.96                  | 16.82 | 19.90             | 30.00       | Pass   |

| Mode 9: Transmit by 802.11ax(80MHz) with Beam-forming |                 |                        |       |                   |                    |        |
|-------------------------------------------------------|-----------------|------------------------|-------|-------------------|--------------------|--------|
| Channel No.                                           | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm)        | Result |
|                                                       |                 | Ant1                   | Ant2  |                   |                    |        |
| CH42                                                  | 5210            | 16.83                  | 16.69 | 19.77             | 29.03/30.00(note1) | Pass   |

Note1: 29.03dBm is AP305C power limit, 30dBm is AP305CX power limit.

**ETH2:**

| Mode 1: Transmit by 802.11a with SISO |                 |                        |       |                   |       |             |        |
|---------------------------------------|-----------------|------------------------|-------|-------------------|-------|-------------|--------|
| Channel No.                           | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) |       | Limit (dBm) | Result |
|                                       |                 | Ant3                   | Ant4  | Ant3              | Ant4  |             |        |
| CH36                                  | 5180            | 19.14                  | 18.63 | 19.14             | 18.63 | 30.00       | Pass   |
| CH40                                  | 5200            | 20.38                  | 19.52 | 20.38             | 19.52 | 30.00       | Pass   |
| CH44                                  | 5220            | 19.23                  | 18.72 | 19.23             | 18.72 | 30.00       | Pass   |
| CH48                                  | 5240            | 19.33                  | 18.66 | 19.33             | 18.66 | 30.00       | Pass   |
| CH149                                 | 5745            | 18.29                  | 17.05 | 18.29             | 17.05 | 30.00       | Pass   |
| CH157                                 | 5785            | 17.89                  | 18.11 | 17.89             | 18.11 | 30.00       | Pass   |
| CH165                                 | 5825            | 19.13                  | 18.57 | 19.13             | 18.57 | 30.00       | Pass   |

| Mode 1: Transmit by 802.11a with CDD |                 |                        |       |                   |             |        |
|--------------------------------------|-----------------|------------------------|-------|-------------------|-------------|--------|
| Channel No.                          | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm) | Result |
|                                      |                 | Ant3                   | Ant4  |                   |             |        |
| CH36                                 | 5180            | 18.13                  | 17.31 | 20.75             | 30.00       | Pass   |
| CH40                                 | 5200            | 20.12                  | 19.45 | 22.81             | 30.00       | Pass   |
| CH44                                 | 5220            | 19.34                  | 18.94 | 22.15             | 30.00       | Pass   |
| CH48                                 | 5240            | 19.21                  | 18.78 | 22.01             | 30.00       | Pass   |
| CH149                                | 5745            | 19.16                  | 18.04 | 21.65             | 30.00       | Pass   |
| CH157                                | 5785            | 19.22                  | 18.13 | 21.72             | 30.00       | Pass   |
| CH165                                | 5825            | 19.89                  | 19.36 | 22.64             | 30.00       | Pass   |

## Mode 2: Transmit by 802.11n(20MHz) with SISO

| Channel No. | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) |       | Limit (dBm) | Result |
|-------------|-----------------|------------------------|-------|-------------------|-------|-------------|--------|
|             |                 | Ant3                   | Ant4  | Ant3              | Ant4  |             |        |
| CH36        | 5180            | 18.37                  | 17.72 | 18.37             | 17.72 | 30.00       | Pass   |
| CH40        | 5200            | 20.12                  | 19.61 | 20.12             | 19.61 | 30.00       | Pass   |
| CH44        | 5220            | 19.89                  | 19.47 | 19.89             | 19.47 | 30.00       | Pass   |
| CH48        | 5240            | 19.44                  | 18.93 | 19.44             | 18.93 | 30.00       | Pass   |
| CH149       | 5745            | 18.89                  | 18.02 | 18.89             | 18.02 | 30.00       | Pass   |
| CH157       | 5785            | 19.07                  | 18.37 | 19.07             | 18.37 | 30.00       | Pass   |
| CH165       | 5825            | 19.92                  | 19.11 | 19.92             | 19.11 | 30.00       | Pass   |

## Mode 2: Transmit by 802.11n(20MHz) with CDD

| Channel No. | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm) | Result |
|-------------|-----------------|------------------------|-------|-------------------|-------------|--------|
|             |                 | Ant3                   | Ant4  |                   |             |        |
| CH36        | 5180            | 18.33                  | 17.05 | 20.75             | 30.00       | Pass   |
| CH40        | 5200            | 20.21                  | 19.24 | 22.76             | 30.00       | Pass   |
| CH44        | 5220            | 19.12                  | 18.71 | 21.93             | 30.00       | Pass   |
| CH48        | 5240            | 18.85                  | 18.23 | 21.56             | 30.00       | Pass   |
| CH149       | 5745            | 18.48                  | 17.79 | 21.16             | 30.00       | Pass   |
| CH157       | 5785            | 18.52                  | 17.87 | 21.22             | 30.00       | Pass   |
| CH165       | 5825            | 20.33                  | 19.41 | 22.90             | 30.00       | Pass   |

## Mode 2: Transmit by 802.11n(20MHz) with Beam-forming

| Channel No. | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm)        | Result |
|-------------|-----------------|------------------------|-------|-------------------|--------------------|--------|
|             |                 | Ant3                   | Ant4  |                   |                    |        |
| CH36        | 5180            | 18.19                  | 17.12 | 20.70             | 29.25/28.63(note1) | Pass   |
| CH40        | 5200            | 20.11                  | 19.03 | 22.61             | 29.25/28.63(note1) | Pass   |
| CH44        | 5220            | 19.77                  | 18.89 | 22.36             | 29.25/28.63(note1) | Pass   |
| CH48        | 5240            | 19.26                  | 18.63 | 21.97             | 29.25/28.63(note1) | Pass   |
| CH149       | 5745            | 18.23                  | 17.62 | 20.95             | 29.25/28.63(note1) | Pass   |
| CH157       | 5785            | 18.31                  | 17.57 | 20.97             | 29.25/28.63(note1) | Pass   |
| CH165       | 5825            | 20.09                  | 19.21 | 22.68             | 29.25/28.63(note1) | Pass   |

Note1: 29.25dBm is AP305C power limit, 28.63dBm is AP305CX power limit.

## Mode 3 Transmit by 802.11n(40MHz) with SISO

| Channel No. | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) |       | Limit (dBm) | Result |
|-------------|-----------------|------------------------|-------|-------------------|-------|-------------|--------|
|             |                 | Ant3                   | Ant4  | Ant3              | Ant4  |             |        |
| CH38        | 5190            | 17.17                  | 16.37 | 17.17             | 16.37 | 30.00       | Pass   |
| CH46        | 5230            | 19.41                  | 18.66 | 19.41             | 18.66 | 30.00       | Pass   |
| CH151       | 5755            | 18.61                  | 17.86 | 18.61             | 17.86 | 30.00       | Pass   |
| CH159       | 5795            | 19.12                  | 18.51 | 19.12             | 18.51 | 30.00       | Pass   |

## Mode 3 Transmit by 802.11n(40MHz) with CDD

| Channel No. | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm) | Result |
|-------------|-----------------|------------------------|-------|-------------------|-------------|--------|
|             |                 | Ant3                   | Ant4  |                   |             |        |
| CH38        | 5190            | 16.88                  | 16.04 | 19.49             | 30.00       | Pass   |
| CH46        | 5230            | 19.21                  | 18.67 | 21.96             | 30.00       | Pass   |
| CH151       | 5755            | 18.22                  | 17.84 | 21.04             | 30.00       | Pass   |
| CH159       | 5795            | 19.09                  | 18.43 | 21.78             | 30.00       | Pass   |

## Mode 3 Transmit by 802.11n(40MHz) with Beam-forming

| Channel No. | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm)        | Result |
|-------------|-----------------|------------------------|-------|-------------------|--------------------|--------|
|             |                 | Ant3                   | Ant4  |                   |                    |        |
| CH38        | 5190            | 16.68                  | 16.27 | 19.49             | 29.25/28.63(note1) | Pass   |
| CH46        | 5230            | 19.05                  | 18.39 | 21.74             | 29.25/28.63(note1) | Pass   |
| CH151       | 5755            | 18.06                  | 17.66 | 20.87             | 29.25/28.63(note1) | Pass   |
| CH159       | 5795            | 19.23                  | 18.17 | 21.74             | 29.25/28.63(note1) | Pass   |

Note1: 29.25dBm is AP305C power limit, 28.63dBm is AP305CX power limit.

## Mode 4: Transmit by 802.11ac(20MHz) with SISO

| Channel No. | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) |       | Limit (dBm) | Result |
|-------------|-----------------|------------------------|-------|-------------------|-------|-------------|--------|
|             |                 | Ant3                   | Ant4  | Ant3              | Ant4  |             |        |
| CH36        | 5180            | 18.18                  | 17.42 | 18.18             | 17.42 | 30.00       | Pass   |
| CH40        | 5200            | 19.89                  | 19.28 | 19.89             | 19.28 | 30.00       | Pass   |
| CH44        | 5220            | 19.77                  | 19.19 | 19.77             | 19.19 | 30.00       | Pass   |
| CH48        | 5240            | 19.49                  | 18.91 | 19.49             | 18.91 | 30.00       | Pass   |
| CH149       | 5745            | 19.23                  | 18.18 | 19.23             | 18.18 | 30.00       | Pass   |
| CH157       | 5785            | 19.45                  | 18.21 | 19.45             | 18.21 | 30.00       | Pass   |
| CH165       | 5825            | 20.74                  | 19.88 | 20.74             | 19.88 | 30.00       | Pass   |

## Mode 4: Transmit by 802.11ac(20MHz) with CDD

| Channel No. | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm) | Result |
|-------------|-----------------|------------------------|-------|-------------------|-------------|--------|
|             |                 | Ant3                   | Ant4  |                   |             |        |
| CH36        | 5180            | 17.79                  | 16.94 | 20.40             | 30.00       | Pass   |
| CH40        | 5200            | 20.12                  | 19.41 | 22.79             | 30.00       | Pass   |
| CH44        | 5220            | 19.76                  | 18.98 | 22.40             | 30.00       | Pass   |
| CH48        | 5240            | 19.08                  | 18.65 | 21.88             | 30.00       | Pass   |
| CH149       | 5745            | 19.41                  | 18.22 | 21.87             | 30.00       | Pass   |
| CH157       | 5785            | 19.52                  | 18.17 | 21.91             | 30.00       | Pass   |
| CH165       | 5825            | 20.58                  | 19.86 | 23.25             | 30.00       | Pass   |

## Mode 4: Transmit by 802.11ac(20MHz) with Beam-forming

| Channel No. | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm)        | Result |
|-------------|-----------------|------------------------|-------|-------------------|--------------------|--------|
|             |                 | Ant3                   | Ant4  |                   |                    |        |
| CH36        | 5180            | 17.53                  | 16.82 | 20.20             | 29.25/28.63(note1) | Pass   |
| CH40        | 5200            | 20.33                  | 19.07 | 22.76             | 29.25/28.63(note1) | Pass   |
| CH44        | 5220            | 19.65                  | 18.87 | 22.29             | 29.25/28.63(note1) | Pass   |
| CH48        | 5240            | 19.22                  | 18.43 | 21.85             | 29.25/28.63(note1) | Pass   |
| CH149       | 5745            | 19.23                  | 18.15 | 21.73             | 29.25/28.63(note1) | Pass   |
| CH157       | 5785            | 19.29                  | 18.36 | 21.86             | 29.25/28.63(note1) | Pass   |
| CH165       | 5825            | 20.14                  | 19.55 | 22.87             | 29.25/28.63(note1) | Pass   |

Note1: 29.25dBm is AP305C power limit, 28.63dBm is AP305CX power limit.

| Mode 5: Transmit by 802.11ac(40MHz) with SISO |                 |                        |       |                   |       |             |        |
|-----------------------------------------------|-----------------|------------------------|-------|-------------------|-------|-------------|--------|
| Channel No.                                   | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) |       | Limit (dBm) | Result |
|                                               |                 | Ant3                   | Ant4  | Ant3              | Ant4  |             |        |
| CH38                                          | 5190            | 17.72                  | 16.52 | 17.72             | 16.52 | 30.00       | Pass   |
| CH46                                          | 5230            | 19.93                  | 19.24 | 19.93             | 19.24 | 30.00       | Pass   |
| CH151                                         | 5755            | 19.21                  | 18.17 | 19.21             | 18.17 | 30.00       | Pass   |
| CH159                                         | 5795            | 19.81                  | 18.77 | 19.81             | 18.77 | 30.00       | Pass   |

| Mode 5: Transmit by 802.11ac(40MHz) with CDD |                 |                        |       |                   |             |        |
|----------------------------------------------|-----------------|------------------------|-------|-------------------|-------------|--------|
| Channel No.                                  | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm) | Result |
|                                              |                 | Ant3                   | Ant4  |                   |             |        |
| CH38                                         | 5190            | 17.41                  | 16.28 | 19.89             | 30.00       | Pass   |
| CH46                                         | 5230            | 20.49                  | 19.26 | 22.93             | 30.00       | Pass   |
| CH151                                        | 5755            | 19.35                  | 18.16 | 21.81             | 30.00       | Pass   |
| CH159                                        | 5795            | 19.87                  | 18.71 | 22.34             | 30.00       | Pass   |

| Mode 5: Transmit by 802.11ac(40MHz) with Beam-forming |                 |                        |       |                   |                    |        |
|-------------------------------------------------------|-----------------|------------------------|-------|-------------------|--------------------|--------|
| Channel No.                                           | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm)        | Result |
|                                                       |                 | Ant3                   | Ant4  |                   |                    |        |
| CH38                                                  | 5190            | 17.22                  | 16.09 | 19.70             | 29.25/28.63(note1) | Pass   |
| CH46                                                  | 5230            | 20.13                  | 19.02 | 22.62             | 29.25/28.63(note1) | Pass   |
| CH151                                                 | 5755            | 19.08                  | 18.32 | 21.73             | 29.25/28.63(note1) | Pass   |
| CH159                                                 | 5795            | 19.56                  | 18.58 | 22.11             | 29.25/28.63(note1) | Pass   |

Note1: 29.25dBm is AP305C power limit, 28.63dBm is AP305CX power limit.



## Mode 6: Transmit by 802.11ac(80MHz) with SISO

| Channel No. | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) |       | Limit (dBm) | Result |
|-------------|-----------------|------------------------|-------|-------------------|-------|-------------|--------|
|             |                 | Ant3                   | Ant4  | Ant3              | Ant4  |             |        |
| CH42        | 5210            | 18.21                  | 17.09 | 18.21             | 17.09 | 30.00       | Pass   |
| CH155       | 5775            | 19.34                  | 18.17 | 19.34             | 18.17 | 30.00       | Pass   |

## Mode 6: Transmit by 802.11ac(80MHz) with CDD

| Channel No. | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm) | Result |
|-------------|-----------------|------------------------|-------|-------------------|-------------|--------|
|             |                 | Ant3                   | Ant4  |                   |             |        |
| CH42        | 5210            | 17.81                  | 16.53 | 20.23             | 30.00       | Pass   |
| CH155       | 5775            | 19.07                  | 18.13 | 21.64             | 30.00       | Pass   |

## Mode 6: Transmit by 802.11ac(80MHz) with Beam-forming

| Channel No. | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm)        | Result |
|-------------|-----------------|------------------------|-------|-------------------|--------------------|--------|
|             |                 | Ant3                   | Ant4  |                   |                    |        |
| CH42        | 5210            | 17.65                  | 16.41 | 20.08             | 29.25/28.63(note1) | Pass   |
| CH155       | 5775            | 18.89                  | 18.03 | 21.49             | 29.25/28.63(note1) | Pass   |

Note1: 29.25dBm is AP305C power limit, 28.63dBm is AP305CX power limit.

## Mode 7: Transmit by 802.11ax(20MHz) with SISO

| Channel No. | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) |       | Limit (dBm) | Result |
|-------------|-----------------|------------------------|-------|-------------------|-------|-------------|--------|
|             |                 | Ant3                   | Ant4  | Ant3              | Ant4  |             |        |
| CH36        | 5180            | 18.33                  | 17.55 | 18.33             | 17.55 | 30.00       | Pass   |
| CH40        | 5200            | 20.38                  | 19.52 | 20.38             | 19.52 | 30.00       | Pass   |
| CH44        | 5220            | 19.94                  | 19.18 | 19.94             | 19.18 | 30.00       | Pass   |
| CH48        | 5240            | 19.82                  | 18.92 | 19.82             | 18.92 | 30.00       | Pass   |
| CH149       | 5745            | 19.31                  | 18.14 | 19.31             | 18.14 | 30.00       | Pass   |
| CH157       | 5785            | 19.09                  | 18.29 | 19.09             | 18.29 | 30.00       | Pass   |
| CH165       | 5825            | 20.29                  | 19.73 | 20.29             | 19.73 | 30.00       | Pass   |

## Mode 7: Transmit by 802.11ax(20MHz) with CDD

| Channel No. | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm) | Result |
|-------------|-----------------|------------------------|-------|-------------------|-------------|--------|
|             |                 | Ant3                   | Ant4  |                   |             |        |
| CH36        | 5180            | 17.72                  | 16.97 | 20.37             | 30.00       | Pass   |
| CH40        | 5200            | 20.65                  | 19.72 | 23.22             | 30.00       | Pass   |
| CH44        | 5220            | 20.12                  | 19.33 | 22.75             | 30.00       | Pass   |
| CH48        | 5240            | 19.82                  | 18.97 | 22.43             | 30.00       | Pass   |
| CH149       | 5745            | 19.23                  | 18.41 | 21.85             | 30.00       | Pass   |
| CH157       | 5785            | 19.19                  | 18.46 | 21.85             | 30.00       | Pass   |
| CH165       | 5825            | 20.76                  | 19.91 | 23.37             | 30.00       | Pass   |

## Mode 7: Transmit by 802.11ax(20MHz) with Beam-forming

| Channel No. | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm)        | Result |
|-------------|-----------------|------------------------|-------|-------------------|--------------------|--------|
|             |                 | Ant3                   | Ant4  |                   |                    |        |
| CH36        | 5180            | 17.56                  | 16.76 | 20.19             | 29.25/28.63(note1) | Pass   |
| CH40        | 5200            | 20.12                  | 19.68 | 22.92             | 29.25/28.63(note1) | Pass   |
| CH44        | 5220            | 19.87                  | 19.15 | 22.54             | 29.25/28.63(note1) | Pass   |
| CH48        | 5240            | 19.68                  | 18.65 | 22.21             | 29.25/28.63(note1) | Pass   |
| CH149       | 5745            | 19.02                  | 18.14 | 21.61             | 29.25/28.63(note1) | Pass   |
| CH157       | 5785            | 19.04                  | 18.19 | 21.65             | 29.25/28.63(note1) | Pass   |
| CH165       | 5825            | 20.44                  | 19.72 | 23.11             | 29.25/28.63(note1) | Pass   |

Note1: 29.25dBm is AP305C power limit, 28.63dBm is AP305CX power limit.

| Mode 8: Transmit by 802.11ax(40MHz) with SISO |                 |                        |       |                   |       |             |        |
|-----------------------------------------------|-----------------|------------------------|-------|-------------------|-------|-------------|--------|
| Channel No.                                   | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) |       | Limit (dBm) | Result |
|                                               |                 | Ant3                   | Ant4  | Ant3              | Ant4  |             |        |
| CH38                                          | 5190            | 17.57                  | 16.96 | 17.57             | 16.96 | 30.00       | Pass   |
| CH46                                          | 5230            | 20.19                  | 19.44 | 20.19             | 19.44 | 30.00       | Pass   |
| CH151                                         | 5755            | 19.04                  | 18.49 | 19.04             | 18.49 | 30.00       | Pass   |
| CH159                                         | 5795            | 19.91                  | 19.17 | 19.91             | 19.17 | 30.00       | Pass   |

| Mode 8: Transmit by 802.11ax(40MHz) with CDD |                 |                        |       |                   |             |        |
|----------------------------------------------|-----------------|------------------------|-------|-------------------|-------------|--------|
| Channel No.                                  | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm) | Result |
|                                              |                 | Ant3                   | Ant4  |                   |             |        |
| CH38                                         | 5190            | 17.78                  | 16.52 | 20.21             | 30.00       | Pass   |
| CH46                                         | 5230            | 20.27                  | 19.47 | 22.90             | 30.00       | Pass   |
| CH151                                        | 5755            | 19.41                  | 18.33 | 21.91             | 30.00       | Pass   |
| CH159                                        | 5795            | 19.88                  | 19.01 | 22.48             | 30.00       | Pass   |

| Mode 8: Transmit by 802.11ax(40MHz) with Beam-forming |                 |                        |       |                   |                    |        |
|-------------------------------------------------------|-----------------|------------------------|-------|-------------------|--------------------|--------|
| Channel No.                                           | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm)        | Result |
|                                                       |                 | Ant3                   | Ant4  |                   |                    |        |
| CH38                                                  | 5190            | 17.67                  | 16.39 | 20.09             | 29.25/28.63(note1) | Pass   |
| CH46                                                  | 5230            | 20.01                  | 19.13 | 22.60             | 29.25/28.63(note1) | Pass   |
| CH151                                                 | 5755            | 19.18                  | 18.09 | 21.68             | 29.25/28.63(note1) | Pass   |
| CH159                                                 | 5795            | 19.66                  | 18.91 | 22.31             | 29.25/28.63(note1) | Pass   |

Note1: 29.25dBm is AP305C power limit, 28.63dBm is AP305CX power limit.

## Mode 9: Transmit by 802.11ax(80MHz) with SISO

| Channel No. | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) |       | Limit (dBm) | Result |
|-------------|-----------------|------------------------|-------|-------------------|-------|-------------|--------|
|             |                 | Ant3                   | Ant4  | Ant3              | Ant4  |             |        |
| CH42        | 5210            | 17.69                  | 16.91 | 17.69             | 16.91 | 30.00       | Pass   |
| CH155       | 5775            | 19.11                  | 18.48 | 19.11             | 18.48 | 30.00       | Pass   |

## Mode 9: Transmit by 802.11ax(80MHz) with CDD

| Channel No. | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm) | Result |
|-------------|-----------------|------------------------|-------|-------------------|-------------|--------|
|             |                 | Ant3                   | Ant4  |                   |             |        |
| CH42        | 5210            | 17.84                  | 16.45 | 20.21             | 30.00       | Pass   |
| CH155       | 5775            | 18.87                  | 17.94 | 21.44             | 30.00       | Pass   |

## Mode 9: Transmit by 802.11ax(80MHz) with Beam-forming

| Channel No. | Frequency (MHz) | Measurement Power(dBm) |       | Total Power (dBm) | Limit (dBm)        | Result |
|-------------|-----------------|------------------------|-------|-------------------|--------------------|--------|
|             |                 | Ant3                   | Ant4  |                   |                    |        |
| CH42        | 5210            | 17.68                  | 16.13 | 19.98             | 29.25/28.63(note1) | Pass   |
| CH155       | 5775            | 18.59                  | 17.61 | 21.14             | 29.25/28.63(note1) | Pass   |

Note1: 29.25dBm is AP305C power limit, 28.63dBm is AP305CX power limit.

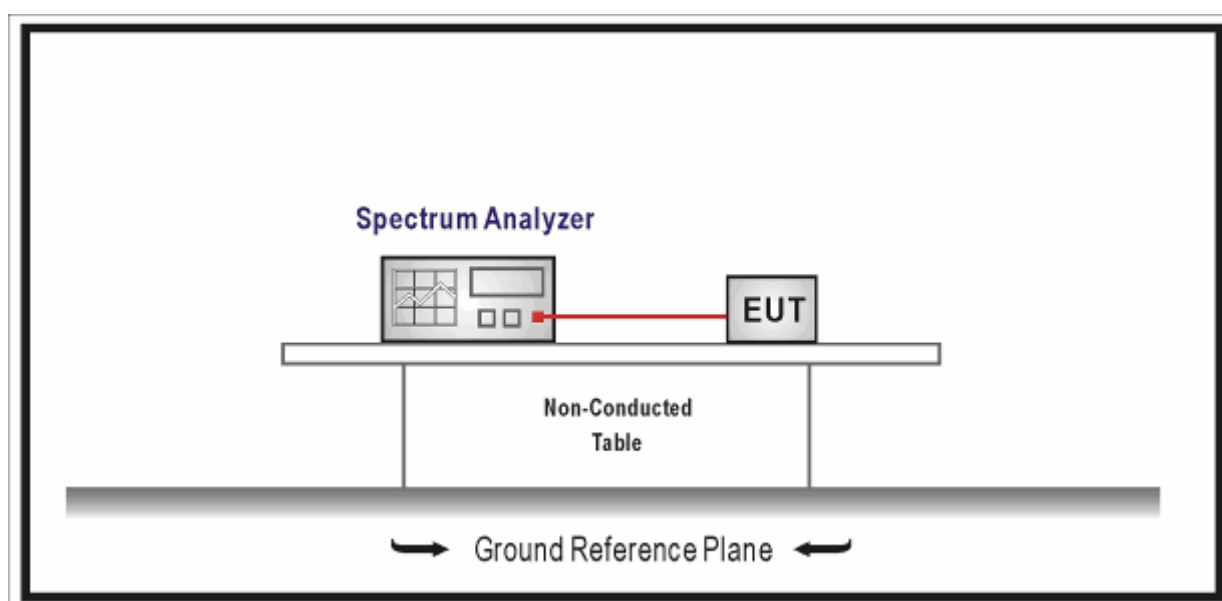
## 8. Peak Power Spectral Density

### 8.1. Test Equipment

| Peak Power Spectral Density / TR-8 |              |          |            |            |               |
|------------------------------------|--------------|----------|------------|------------|---------------|
| Instrument                         | Manufacturer | Type No. | Serial No. | Cal. Date  | Cal. Due Date |
| Spectrum Analyzer                  | Agilent      | N9010A   | MY48030494 | 2019.02.04 | 2020.02.03    |
| EXA Spectrum Analyzer              | Keysight     | N9010A   | MY55370495 | 2019.04.09 | 2020.04.08    |
| MXA Signal Analyzer                | Keysight     | N9020A   | MY56060147 | 2019.04.09 | 2020.04.08    |
| Temperature/Humidity Meter         | zhichen      | ZC1-2    | TR8-TH     | 2019.04.10 | 2020.04.09    |

Note: All equipment are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

### 8.2. Test Setup



### 8.3. Limit

| Fundamental emission output power Limit                     |                                                                                                                                                                         |
|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/>                         | For the band 5.15-5.25 GHz                                                                                                                                              |
| <input type="checkbox"/>                                    | Outdoor access point: the maximum power spectral density shall not exceed 17 dBm/MHz. If $G_{TX} > 6\text{dBi}$ , then $P_{out} \leq 17 - (G_{TX} - 6)$                 |
| <input checked="" type="checkbox"/>                         | Indoor access point: the maximum power spectral density shall not exceed 17 dBm/MHz. If $G_{TX} > 6\text{dBi}$ , then $P_{out} \leq 17 - (G_{TX} - 6)$                  |
| <input type="checkbox"/>                                    | Fixed point-to-point access points: the maximum power spectral density shall not exceed 17 dBm/MHz. If $G_{TX} > 23\text{dBi}$ , then $P_{out} \leq 17 - (G_{TX} - 23)$ |
| <input type="checkbox"/>                                    | Mobile and portable client devices: the maximum power spectral density shall not exceed 11 dBm/MHz. If $G_{TX} > 6\text{dBi}$ , then $P_{out} \leq 11 - (G_{TX} - 6)$   |
| <input type="checkbox"/>                                    | For the 5.25-5.35 GHz:                                                                                                                                                  |
| <input type="checkbox"/>                                    | the maximum power spectral density shall not exceed 11 dBm/MHz. If $G_{TX} > 6\text{dBi}$ , then $P_{out} \leq 11 - (G_{TX} - 6)$                                       |
| <input type="checkbox"/>                                    | For the 5.47-5.725 GHz:                                                                                                                                                 |
| <input type="checkbox"/>                                    | the maximum power spectral density shall not exceed 11 dBm/MHz. If $G_{TX} > 6\text{dBi}$ , then $P_{out} \leq 11 - (G_{TX} - 6)$                                       |
| <input checked="" type="checkbox"/>                         | For the band 5.725-5.85 GHz:                                                                                                                                            |
| <input checked="" type="checkbox"/>                         | the maximum power spectral density shall not exceed 30 dBm/500KHz. If $G_{TX} > 6\text{dBi}$ , then $P_{out} \leq 30 - (G_{TX} - 6)$                                    |
| Note 1: $G_{TX}$ directional gain of transmitting antennas. |                                                                                                                                                                         |
| Note 2: $P_{out}$ is maximum peak conducted output power.   |                                                                                                                                                                         |

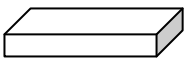
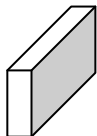
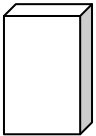
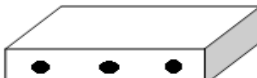
| Directional Gain Calculations for In-Band test method |                                     |             |             |                                                                   |
|-------------------------------------------------------|-------------------------------------|-------------|-------------|-------------------------------------------------------------------|
|                                                       | References Rule                     |             | Chapter     | Description                                                       |
| <input type="checkbox"/>                              | KDB 662911                          |             | F2)a)       | Basic methodology                                                 |
|                                                       | <input type="checkbox"/>            | KDB 662911  | F2)a) (i)   | transmit signals are correlated                                   |
|                                                       | <input type="checkbox"/>            | KDB 662911  | F2)a) (ii)  | transmit signals are uncorrelated                                 |
| <input type="checkbox"/>                              | KDB 662911                          |             | F2)b)       | Sectorized antenna systems.                                       |
| <input type="checkbox"/>                              | KDB 662911                          |             | F2)c)       | Cross-polarized antennas                                          |
|                                                       | <input type="checkbox"/>            | ANSI C63.10 | F2)c) (i)   | Cross-polarized antennas                                          |
|                                                       | <input type="checkbox"/>            | ANSI C63.10 | F2)c) (ii)  | Multiple antennas                                                 |
| <input checked="" type="checkbox"/>                   | KDB 662911                          |             | F2)e)       | Spatial stream                                                    |
|                                                       | <input type="checkbox"/>            | KDB 662911  | F2)e) (i)   | Antennas have the same gain                                       |
|                                                       | <input checked="" type="checkbox"/> | KDB 662911  | F2)e) (ii)  | Antenna have the different gain with one spatial stream           |
|                                                       | <input type="checkbox"/>            | KDB 662911  | F2)e) (iii) | Antenna have the different gain with more than one spatial stream |
| <input checked="" type="checkbox"/>                   | KDB 662911                          |             | F2)f)       | Cyclic Delay Diversity (CDD)                                      |
|                                                       | <input type="checkbox"/>            | KDB 662911  | F2)f) (i)   | Antennas have the same gain                                       |
|                                                       | <input checked="" type="checkbox"/> | KDB 662911  | F2)f) (ii)  | Antenna have the different gain with one spatial stream           |
|                                                       | <input type="checkbox"/>            | KDB 662911  | F2)f) (iii) | Antenna have the different gain with more than one spatial stream |

#### 8.4. Test Procedure

| Fundamental emission output power Test Method |                          |         |                                      |
|-----------------------------------------------|--------------------------|---------|--------------------------------------|
|                                               | References Rule          | Chapter | Description                          |
| <input checked="" type="checkbox"/>           | ANSI C63.10              | 12.5    | Peak power spectral density          |
| <input checked="" type="checkbox"/>           | FCC KDB 789033 D02v02r01 | F       | Maximum Power Spectral Density (PSD) |



### 8.5. EUT test Axis definition

| Item            | Power Spectral Density              |                                                                                      |                                                                                      |                                                                                      |         |
|-----------------|-------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------|
| Device Category | <input checked="" type="checkbox"/> | Indoor use                                                                           |                                                                                      |                                                                                      |         |
|                 | <input type="checkbox"/>            | Outdoor use                                                                          |                                                                                      |                                                                                      |         |
|                 | <input type="checkbox"/>            | Fix position use                                                                     |                                                                                      |                                                                                      |         |
|                 | <input type="checkbox"/>            | Client use                                                                           |                                                                                      |                                                                                      |         |
| Test mode       | Mode 1-9                            |                                                                                      |                                                                                      |                                                                                      |         |
| Test method     | <input type="checkbox"/>            | Radiated                                                                             |                                                                                      |                                                                                      |         |
|                 |                                     | X Axis                                                                               | Y Axis                                                                               | Z Axis                                                                               |         |
|                 |                                     |    |  |  |         |
|                 |                                     | Worst Axis <input type="checkbox"/>                                                  | Worst Axis <input type="checkbox"/>                                                  | Worst Axis <input type="checkbox"/>                                                  |         |
|                 | <input checked="" type="checkbox"/> | Conducted                                                                            |                                                                                      |                                                                                      |         |
|                 | <input checked="" type="checkbox"/> | Chain 1                                                                              |                                                                                      |                                                                                      |         |
|                 |                                     |  |                                                                                      |                                                                                      |         |
|                 | <input checked="" type="checkbox"/> | Chain 1                                                                              | Chain 2                                                                              |                                                                                      |         |
|                 |                                     |  |                                                                                      |                                                                                      |         |
|                 | <input type="checkbox"/>            | Chain 1                                                                              | Chain 2                                                                              | Chain 3                                                                              |         |
|                 |                                     |  |                                                                                      |                                                                                      |         |
|                 | <input type="checkbox"/>            | Chain 1                                                                              | Chain 2                                                                              | Chain 3                                                                              | Chain 4 |
|                 |                                     |  |                                                                                      |                                                                                      |         |

## 8.6. Test Result

|              |                         |               |                |
|--------------|-------------------------|---------------|----------------|
| Product Name | : Wireless Access Point | Power         | : AC 120V/60Hz |
| Test Mode    | : Mode 1~9              | Test Site     | : TR8          |
| Test Date    | : 2019.07.18            | Test Engineer | : Simon        |

### ETH1:

| Mode 1: Transmit by 802.11a with SISO |                 |                                              |      |             |                                 |      |                 |        |
|---------------------------------------|-----------------|----------------------------------------------|------|-------------|---------------------------------|------|-----------------|--------|
| Channel No.                           | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz) |      | Duty factor | Total Measurement PSD (dBm/MHz) |      | Limit (dBm/MHz) | Result |
|                                       |                 | Ant1                                         | Ant2 |             | Ant1                            | Ant2 |                 |        |
| CH36                                  | 5180            | 4.66                                         | 4.36 | 0.35        | 5.01                            | 4.71 | 17              | Pass   |
| CH44                                  | 5220            | 6.36                                         | 6.61 | 0.35        | 6.71                            | 6.96 | 17              | Pass   |
| CH48                                  | 5240            | 5.64                                         | 5.36 | 0.35        | 5.99                            | 5.71 | 17              | Pass   |

| Mode 1: Transmit by 802.11a with CDD |                 |                                              |      |             |                                 |                 |        |
|--------------------------------------|-----------------|----------------------------------------------|------|-------------|---------------------------------|-----------------|--------|
| Channel No.                          | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz) |      | Duty factor | Total Measurement PSD (dBm/MHz) | Limit (dBm/MHz) | Result |
|                                      |                 | Ant1                                         | Ant2 |             |                                 |                 |        |
| CH36                                 | 5180            | 5.64                                         | 6.70 | 0.35        | 9.56                            | 16.03/17(note1) | Pass   |
| CH44                                 | 5220            | 6.12                                         | 6.02 | 0.35        | 9.43                            | 16.03/17(note1) | Pass   |
| CH48                                 | 5240            | 5.45                                         | 5.85 | 0.35        | 9.01                            | 16.03/17(note1) | Pass   |

Note1: 16.03dBm/MHz is AP305C PSD limit, 17dBm/MHz is AP305CX PSD limit.

**Mode 2: Transmit by 802.11n(20MHz) with SISO**

| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz) |      | Duty factor | Total Measurement PSD (dBm/MHz) |      | Limit (dBm/MHz) | Result |
|-------------|-----------------|----------------------------------------------|------|-------------|---------------------------------|------|-----------------|--------|
|             |                 | Ant1                                         | Ant2 |             | Ant1                            | Ant2 |                 |        |
| CH36        | 5180            | 6.40                                         | 6.06 | 0.27        | 6.67                            | 6.33 | 17              | Pass   |
| CH44        | 5220            | 5.98                                         | 5.72 | 0.27        | 6.25                            | 5.99 | 17              | Pass   |
| CH48        | 5240            | 6.04                                         | 5.88 | 0.27        | 6.31                            | 6.15 | 17              | Pass   |

**Mode 2: Transmit by 802.11n(20MHz) with CDD**

| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz) |      | Duty factor | Total Measurement PSD (dBm/MHz) | Limit (dBm/MHz) | Result |
|-------------|-----------------|----------------------------------------------|------|-------------|---------------------------------|-----------------|--------|
|             |                 | Ant1                                         | Ant2 |             |                                 |                 |        |
| CH36        | 5180            | 4.35                                         | 5.96 | 0.27        | 8.51                            | 16.03/17(note1) | Pass   |
| CH44        | 5220            | 5.53                                         | 6.10 | 0.27        | 9.10                            | 16.03/17(note1) | Pass   |
| CH48        | 5240            | 4.78                                         | 5.26 | 0.27        | 8.31                            | 16.03/17(note1) | Pass   |

Note1: 16.03dBm/MHz is AP305C PSD limit, 17dBm/MHz is AP305CX PSD limit.

**Mode 2: Transmit by 802.11n(20MHz) with Beamforming**

| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz) |      | Duty factor | Total Measurement PSD (dBm/MHz) | Limit (dBm/MHz) | Result |
|-------------|-----------------|----------------------------------------------|------|-------------|---------------------------------|-----------------|--------|
|             |                 | Ant1                                         | Ant2 |             |                                 |                 |        |
| CH36        | 5180            | 5.81                                         | 5.30 | 0.26        | 8.83                            | 16.03/17(note1) | Pass   |
| CH44        | 5220            | 5.15                                         | 5.81 | 0.26        | 8.76                            | 16.03/17(note1) | Pass   |
| CH48        | 5240            | 5.22                                         | 5.86 | 0.26        | 8.82                            | 16.03/17(note1) | Pass   |

Note1: 16.03dBm/MHz is AP305C PSD limit, 17dBm/MHz is AP305CX PSD limit.

**Mode 3: Transmit by 802.11n(40MHz) with SISO**

| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz) |      | Duty factor | Total Measurement PSD (dBm/MHz) |      | Limit (dBm/MHz) | Result |
|-------------|-----------------|----------------------------------------------|------|-------------|---------------------------------|------|-----------------|--------|
|             |                 | Ant1                                         | Ant2 |             | Ant1                            | Ant2 |                 |        |
| CH38        | 5190            | 0.42                                         | 0.45 | 0.64        | 1.06                            | 1.09 | 17              | Pass   |
| CH46        | 5230            | 0.90                                         | 2.99 | 0.64        | 1.54                            | 3.63 | 17              | Pass   |

**Mode 3: Transmit by 802.11n(40MHz) with CDD**

| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz) |       | Duty factor | Total Measurement PSD (dBm/MHz) | Limit (dBm/MHz) | Result |
|-------------|-----------------|----------------------------------------------|-------|-------------|---------------------------------|-----------------|--------|
|             |                 | Ant1                                         | Ant2  |             |                                 |                 |        |
| CH38        | 5190            | -1.96                                        | -1.42 | 0.64        | 1.97                            | 16.03/17(note1) | Pass   |
| CH46        | 5230            | 1.21                                         | 0.68  | 0.64        | 4.60                            | 16.03/17(note1) | Pass   |

Note1: 16.03dBm/MHz is AP305C PSD limit, 17dBm/MHz is AP305CX PSD limit.

**Mode 3: Transmit by 802.11n(40MHz) with Beamforming**

| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz) |       | Duty factor | Total Measurement PSD (dBm/MHz) | Limit (dBm/MHz) | Result |
|-------------|-----------------|----------------------------------------------|-------|-------------|---------------------------------|-----------------|--------|
|             |                 | Ant1                                         | Ant2  |             |                                 |                 |        |
| CH38        | 5190            | -0.82                                        | -2.54 | 0.60        | 2.01                            | 16.03/17(note1) | Pass   |
| CH46        | 5230            | 2.18                                         | 2.49  | 0.60        | 5.95                            | 16.03/17(note1) | Pass   |

Note1: 16.03dBm/MHz is AP305C PSD limit, 17dBm/MHz is AP305CX PSD limit.

**Mode 4: Transmit by 802.11ac(20MHz) with SISO**

| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz) |      | Duty factor | Total Measurement PSD (dBm/MHz) |      | Limit (dBm/MHz) | Result |
|-------------|-----------------|----------------------------------------------|------|-------------|---------------------------------|------|-----------------|--------|
|             |                 | Ant1                                         | Ant2 |             | Ant1                            | Ant2 |                 |        |
| CH36        | 5180            | 6.08                                         | 5.92 | 0.13        | 6.21                            | 6.05 | 17              | Pass   |
| CH44        | 5220            | 5.91                                         | 5.56 | 0.13        | 6.04                            | 5.69 | 17              | Pass   |
| CH48        | 5240            | 5.13                                         | 5.98 | 0.13        | 5.26                            | 6.11 | 17              | Pass   |

**Mode 4: Transmit by 802.11ac(20MHz) with CDD**

| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz) |      | Duty factor | Total Measurement PSD (dBm/MHz) | Limit (dBm/MHz) | Result |
|-------------|-----------------|----------------------------------------------|------|-------------|---------------------------------|-----------------|--------|
|             |                 | Ant1                                         | Ant2 |             |                                 |                 |        |
| CH36        | 5180            | 5.75                                         | 5.60 | 0.13        | 8.82                            | 16.03/17(note1) | Pass   |
| CH44        | 5220            | 6.42                                         | 6.42 | 0.13        | 9.56                            | 16.03/17(note1) | Pass   |
| CH48        | 5240            | 5.69                                         | 6.07 | 0.13        | 9.02                            | 16.03/17(note1) | Pass   |

Note1: 16.03dBm/MHz is AP305C PSD limit, 17dBm/MHz is AP305CX PSD limit.

**Mode 4: Transmit by 802.11ac(20MHz) with Beamforming**

| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz) |      | Duty factor | Total Measurement PSD (dBm/MHz) | Limit (dBm/MHz) | Result |
|-------------|-----------------|----------------------------------------------|------|-------------|---------------------------------|-----------------|--------|
|             |                 | Ant1                                         | Ant2 |             |                                 |                 |        |
| CH36        | 5180            | 5.73                                         | 4.98 | 0.11        | 8.49                            | 16.03/17(note1) | Pass   |
| CH44        | 5220            | 6.16                                         | 5.73 | 0.11        | 9.07                            | 16.03/17(note1) | Pass   |
| CH48        | 5240            | 5.93                                         | 5.54 | 0.11        | 8.86                            | 16.03/17(note1) | Pass   |

Note1: 16.03dBm/MHz is AP305C PSD limit, 17dBm/MHz is AP305CX PSD limit.

**Mode 5: Transmit by 802.11ac(40MHz) with SISO**

| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz) |      | Duty factor | Total Measurement PSD (dBm/MHz) |      | Limit (dBm/MHz) | Result |
|-------------|-----------------|----------------------------------------------|------|-------------|---------------------------------|------|-----------------|--------|
|             |                 | Ant1                                         | Ant2 |             | Ant1                            | Ant2 |                 |        |
| CH38        | 5190            | -0.12                                        | 0.32 | 0.35        | 0.23                            | 0.67 | 17              | Pass   |
| CH46        | 5230            | 1.06                                         | 1.68 | 0.35        | 1.41                            | 2.03 | 17              | Pass   |

**Mode 5: Transmit by 802.11ac(40MHz) with CDD**

| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz) |       | Duty factor | Total Measurement PSD (dBm/MHz) | Limit (dBm/MHz) | Result |
|-------------|-----------------|----------------------------------------------|-------|-------------|---------------------------------|-----------------|--------|
|             |                 | Ant1                                         | Ant2  |             |                                 |                 |        |
| CH38        | 5190            | 1.24                                         | -1.46 | 0.35        | 3.46                            | 16.03/17(note1) | Pass   |
| CH46        | 5230            | 3.43                                         | 2.87  | 0.35        | 6.52                            | 16.03/17(note1) | Pass   |

Note1: 16.03dBm/MHz is AP305C PSD limit, 17dBm/MHz is AP305CX PSD limit.

**Mode 5: Transmit by 802.11ac(40MHz) with Beamforming**

| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz) |       | Duty factor | Total Measurement PSD (dBm/MHz) | Limit (dBm/MHz) | Result |
|-------------|-----------------|----------------------------------------------|-------|-------------|---------------------------------|-----------------|--------|
|             |                 | Ant1                                         | Ant2  |             |                                 |                 |        |
| CH38        | 5190            | -2.37                                        | -2.78 | 0.37        | 0.81                            | 16.03/17(note1) | Pass   |
| CH46        | 5230            | 1.46                                         | 1.17  | 0.37        | 4.70                            | 16.03/17(note1) | Pass   |

Note1: 16.03dBm/MHz is AP305C PSD limit, 17dBm/MHz is AP305CX PSD limit.

**Mode 6: Transmit by 802.11ac(80MHz) with SISO**

| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz) |       | Duty factor | Total Measurement PSD (dBm/MHz) |       | Limit (dBm/MHz) | Result |
|-------------|-----------------|----------------------------------------------|-------|-------------|---------------------------------|-------|-----------------|--------|
|             |                 | Ant1                                         | Ant2  |             | Ant1                            | Ant2  |                 |        |
| CH42        | 5210            | -3.24                                        | -2.73 | 0.61        | -2.63                           | -2.12 | 17              | Pass   |

**Mode 6: Transmit by 802.11ac(80MHz) with CDD**

| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz) |       | Duty factor | Total Measurement PSD (dBm/MHz) | Limit (dBm/MHz) | Result |
|-------------|-----------------|----------------------------------------------|-------|-------------|---------------------------------|-----------------|--------|
|             |                 | Ant1                                         | Ant2  |             |                                 |                 |        |
| CH42        | 5210            | -2.93                                        | -3.29 | 0.61        | 0.51                            | 16.03/17(note1) | Pass   |

Note1: 16.03dBm/MHz is AP305C PSD limit, 17dBm/MHz is AP305CX PSD limit.

**Mode 6: Transmit by 802.11ac(80MHz) with Beamforming**

| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz) |       | Duty factor | Total Measurement PSD (dBm/MHz) | Limit (dBm/MHz) | Result |
|-------------|-----------------|----------------------------------------------|-------|-------------|---------------------------------|-----------------|--------|
|             |                 | Ant1                                         | Ant2  |             |                                 |                 |        |
| CH42        | 5210            | -3.73                                        | -3.78 | 0.61        | -0.13                           | 16.03/17(note1) | Pass   |

Note1: 16.03dBm/MHz is AP305C PSD limit, 17dBm/MHz is AP305CX PSD limit.

**Mode 7: Transmit by 802.11ax(20MHz) with SISO**

| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz) |      | Duty factor | Total Measurement PSD (dBm/MHz) |      | Limit (dBm/MHz) | Result |
|-------------|-----------------|----------------------------------------------|------|-------------|---------------------------------|------|-----------------|--------|
|             |                 | Ant1                                         | Ant2 |             | Ant1                            | Ant2 |                 |        |
| CH36        | 5180            | 6.17                                         | 6.65 | 0.13        | 6.3                             | 6.78 | 17              | Pass   |
| CH44        | 5220            | 6.16                                         | 5.30 | 0.13        | 6.29                            | 5.43 | 17              | Pass   |
| CH48        | 5240            | 5.18                                         | 5.90 | 0.13        | 5.31                            | 6.03 | 17              | Pass   |

**Mode 7: Transmit by 802.11ax(20MHz) with CDD**

| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz) |      | Duty factor | Total Measurement PSD (dBm/MHz) | Limit (dBm/MHz) | Result |
|-------------|-----------------|----------------------------------------------|------|-------------|---------------------------------|-----------------|--------|
|             |                 | Ant1                                         | Ant2 |             |                                 |                 |        |
| CH36        | 5180            | 4.92                                         | 4.91 | 0.13        | 8.06                            | 16.03/17(note1) | Pass   |
| CH44        | 5220            | 6.35                                         | 5.80 | 0.13        | 9.22                            | 16.03/17(note1) | Pass   |
| CH48        | 5240            | 5.56                                         | 5.97 | 0.13        | 8.91                            | 16.03/17(note1) | Pass   |

Note1: 16.03dBm/MHz is AP305C PSD limit, 17dBm/MHz is AP305CX PSD limit.

**Mode 7: Transmit by 802.11ax(20MHz) with Beamforming**

| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz) |      | Duty factor | Total Measurement PSD (dBm/MHz) | Limit (dBm/MHz) | Result |
|-------------|-----------------|----------------------------------------------|------|-------------|---------------------------------|-----------------|--------|
|             |                 | Ant1                                         | Ant2 |             |                                 |                 |        |
| CH36        | 5180            | 5.10                                         | 5.24 | 0.14        | 8.32                            | 16.03/17(note1) | Pass   |
| CH44        | 5220            | 6.13                                         | 6.01 | 0.14        | 9.22                            | 16.03/17(note1) | Pass   |
| CH48        | 5240            | 5.80                                         | 5.37 | 0.14        | 8.74                            | 16.03/17(note1) | Pass   |

Note1: 16.03dBm/MHz is AP305C PSD limit, 17dBm/MHz is AP305CX PSD limit.



**Mode 8: Transmit by 802.11ax(40MHz) with SISO**

| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz) |      | Duty factor | Total Measurement PSD (dBm/MHz) |      | Limit (dBm/MHz) | Result |
|-------------|-----------------|----------------------------------------------|------|-------------|---------------------------------|------|-----------------|--------|
|             |                 | Ant1                                         | Ant2 |             | Ant1                            | Ant2 |                 |        |
| CH38        | 5190            | 0.63                                         | 0.34 | 0.40        | 1.03                            | 0.74 | 17              | Pass   |
| CH46        | 5230            | 1.64                                         | 2.27 | 0.40        | 2.04                            | 2.67 | 17              | Pass   |

**Mode 8: Transmit by 802.11ax(40MHz) with CDD**

| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz) |      | Duty factor | Total Measurement PSD (dBm/MHz) | Limit (dBm/MHz) | Result |
|-------------|-----------------|----------------------------------------------|------|-------------|---------------------------------|-----------------|--------|
|             |                 | Ant1                                         | Ant2 |             |                                 |                 |        |
| CH38        | 5190            | 0.94                                         | 0.31 | 0.40        | 4.05                            | 16.03/17(note1) | Pass   |
| CH46        | 5230            | 3.25                                         | 3.01 | 0.40        | 6.54                            | 16.03/17(note1) | Pass   |

Note1: 16.03dBm/MHz is AP305C PSD limit, 17dBm/MHz is AP305CX PSD limit.

**Mode 8: Transmit by 802.11ax(40MHz) with Beamforming**

| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz) |       | Duty factor | Total Measurement PSD (dBm/MHz) | Limit (dBm/MHz) | Result |
|-------------|-----------------|----------------------------------------------|-------|-------------|---------------------------------|-----------------|--------|
|             |                 | Ant1                                         | Ant2  |             |                                 |                 |        |
| CH38        | 5190            | -1.32                                        | -3.00 | 0.39        | 1.32                            | 16.03/17(note1) | Pass   |
| CH46        | 5230            | 1.38                                         | 1.50  | 0.39        | 4.84                            | 16.03/17(note1) | Pass   |

Note1: 16.03dBm/MHz is AP305C PSD limit, 17dBm/MHz is AP305CX PSD limit.

**Mode 9: Transmit by 802.11ax(80MHz) with SISO**

| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz) |       | Duty factor | Total Measurement PSD (dBm/MHz) |       | Limit (dBm/MHz) | Result |
|-------------|-----------------|----------------------------------------------|-------|-------------|---------------------------------|-------|-----------------|--------|
|             |                 | Ant1                                         | Ant2  |             | Ant1                            | Ant2  |                 |        |
| CH42        | 5210            | -2.80                                        | -3.51 | 0.50        | -2.3                            | -3.01 | 17              | Pass   |

**Mode 9: Transmit by 802.11ax(80MHz) with CDD**

| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz) |       | Duty factor | Total Measurement PSD (dBm/MHz) | Limit (dBm/MHz) | Result |
|-------------|-----------------|----------------------------------------------|-------|-------------|---------------------------------|-----------------|--------|
|             |                 | Ant1                                         | Ant2  |             |                                 |                 |        |
| CH42        | 5210            | -4.49                                        | -3.28 | 0.50        | -0.33                           | 16.03/17(note1) | Pass   |

Note1: 16.03dBm/MHz is AP305C PSD limit, 17dBm/MHz is AP305CX PSD limit.

**Mode 9: Transmit by 802.11ax(80MHz) with Beamforming**

| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz) |       | Duty factor | Total Measurement PSD (dBm/MHz) | Limit (dBm/MHz) | Result |
|-------------|-----------------|----------------------------------------------|-------|-------------|---------------------------------|-----------------|--------|
|             |                 | Ant1                                         | Ant2  |             |                                 |                 |        |
| CH42        | 5210            | -3.46                                        | -3.40 | 0.53        | 0.11                            | 16.03/17(note1) | Pass   |

Note1: 16.03dBm/MHz is AP305C PSD limit, 17dBm/MHz is AP305CX PSD limit.

**ETH2:**

| <b>Mode 1: Transmit by 802.11a with SISO</b> |                 |                                                 |      |             |                                    |      |                    |                    |
|----------------------------------------------|-----------------|-------------------------------------------------|------|-------------|------------------------------------|------|--------------------|--------------------|
| Channel No.                                  | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz)    |      | Duty factor | Total Measurement PSD (dBm/MHz)    |      | Limit (dBm/MHz)    | Result             |
|                                              |                 | Ant3                                            | Ant4 |             | Ant3                               | Ant4 |                    |                    |
| CH36                                         | 5180            | 6.21                                            | 5.48 | 0.35        | 6.56                               | 5.83 | 17                 | Pass               |
| CH44                                         | 5220            | 5.74                                            | 5.42 | 0.35        | 6.09                               | 5.77 | 17                 | Pass               |
| CH48                                         | 5240            | 5.64                                            | 6.04 | 0.35        | 5.99                               | 6.39 | 17                 | Pass               |
| Channel No.                                  | Frequency (MHz) | Measurement Power Spectral Density (dBm/500KHz) |      | Duty factor | Total Measurement PSD (dBm/500KHz) |      | Limit (dBm/500KHz) | Limit (dBm/500KHz) |
|                                              |                 | Ant3                                            | Ant4 |             | Ant3                               | Ant4 |                    |                    |
| CH149                                        | 5745            | 1.45                                            | 1.70 | 0.35        | 1.80                               | 2.05 | 30                 | Pass               |
| CH157                                        | 5785            | 2.65                                            | 2.00 | 0.35        | 3.00                               | 2.35 | 30                 | Pass               |
| CH165                                        | 5825            | 0.92                                            | 1.85 | 0.35        | 1.27                               | 2.20 | 30                 | Pass               |

| <b>Mode 1: Transmit by 802.11a with CDD</b> |                 |                                                 |      |             |                                    |                     |                    |
|---------------------------------------------|-----------------|-------------------------------------------------|------|-------------|------------------------------------|---------------------|--------------------|
| Channel No.                                 | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz)    |      | Duty factor | Total Measurement PSD (dBm/MHz)    | Limit (dBm/MHz)     | Result             |
|                                             |                 | Ant3                                            | Ant4 |             |                                    |                     |                    |
| CH36                                        | 5180            | 5.92                                            | 4.64 | 0.35        | 8.69                               | 16.25/15.63 (note1) | Pass               |
| CH44                                        | 5220            | 5.80                                            | 5.38 | 0.35        | 8.96                               | 16.25/15.63 (note1) | Pass               |
| CH48                                        | 5240            | 5.35                                            | 4.78 | 0.35        | 8.43                               | 16.25/15.63 (note1) | Pass               |
| Channel No.                                 | Frequency (MHz) | Measurement Power Spectral Density (dBm/500KHz) |      | Duty factor | Total Measurement PSD (dBm/500KHz) | Limit (dBm/500KHz)  | Limit (dBm/500KHz) |
|                                             |                 | Ant3                                            | Ant4 |             |                                    |                     |                    |
| CH149                                       | 5745            | 1.69                                            | 1.07 | 0.35        | 4.75                               | 29.25/28.63 (note2) | Pass               |
| CH157                                       | 5785            | 1.56                                            | 1.16 | 0.35        | 4.72                               | 29.25/28.63 (note2) | Pass               |
| CH165                                       | 5825            | 0.69                                            | 0.52 | 0.35        | 3.97                               | 29.25/28.63 (note2) | Pass               |

Note1: 16.25dBm/MHz is AP305C PSD limit, 15.63dBm/MHz is AP305CX PSD limit.

Note2: 29.25dBm/500KHz is AP305C PSD limit, 28.63dBm/500KHz is AP305CX PSD limit.

**Mode 2: Transmit by 802.11n(20MHz) with SISO**

| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz)    |      | Duty factor | Total Measurement PSD (dBm/MHz)    |      | Limit (dBm/MHz)    | Result             |
|-------------|-----------------|-------------------------------------------------|------|-------------|------------------------------------|------|--------------------|--------------------|
|             |                 | Ant3                                            | Ant4 |             | Ant3                               | Ant4 |                    |                    |
| CH36        | 5180            | 5.01                                            | 6.27 | 0.27        | 5.28                               | 6.54 | 17                 | Pass               |
| CH44        | 5220            | 5.40                                            | 5.39 | 0.27        | 5.67                               | 5.66 | 17                 | Pass               |
| CH48        | 5240            | 5.66                                            | 5.04 | 0.27        | 5.93                               | 5.31 | 17                 | Pass               |
| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/500KHz) |      | Duty factor | Total Measurement PSD (dBm/500KHz) |      | Limit (dBm/500KHz) | Limit (dBm/500KHz) |
|             |                 | Ant3                                            | Ant4 |             | Ant3                               | Ant4 |                    |                    |
| CH149       | 5745            | 1.05                                            | 1.48 | 0.27        | 1.32                               | 1.75 | 30                 | Pass               |
| CH157       | 5785            | 1.04                                            | 1.08 | 0.27        | 1.31                               | 1.35 | 30                 | Pass               |
| CH165       | 5825            | 0.79                                            | 0.74 | 0.27        | 1.06                               | 1.01 | 30                 | Pass               |

**Mode 2: Transmit by 802.11n(20MHz) with CDD**

| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz)    |      | Duty factor | Total Measurement PSD (dBm/MHz)    | Limit (dBm/MHz)     | Result             |
|-------------|-----------------|-------------------------------------------------|------|-------------|------------------------------------|---------------------|--------------------|
|             |                 | Ant3                                            | Ant4 |             |                                    |                     |                    |
| CH36        | 5180            | 5.23                                            | 4.30 | 0.27        | 8.07                               | 16.25/15.63 (note1) | Pass               |
| CH44        | 5220            | 5.76                                            | 6.08 | 0.27        | 9.20                               | 16.25/15.63 (note1) | Pass               |
| CH48        | 5240            | 5.61                                            | 5.72 | 0.27        | 8.95                               | 16.25/15.63 (note1) | Pass               |
| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/500KHz) |      | Duty factor | Total Measurement PSD (dBm/500KHz) | Limit (dBm/500KHz)  | Limit (dBm/500KHz) |
|             |                 | Ant3                                            | Ant4 |             |                                    |                     |                    |
| CH149       | 5745            | 0.62                                            | 1.98 | 0.27        | 4.63                               | 29.25/28.63 (note1) | Pass               |
| CH157       | 5785            | 0.90                                            | 1.07 | 0.27        | 4.27                               | 29.25/28.63 (note1) | Pass               |
| CH165       | 5825            | 0.71                                            | 1.15 | 0.27        | 4.22                               | 29.25/28.63 (note1) | Pass               |

Note1: 16.25dBm/MHz is AP305C PSD limit, 15.63dBm/MHz is AP305CX PSD limit.

Note2: 29.25dBm/500KHz is AP305C PSD limit, 28.63dBm/500KHz is AP305CX PSD limit.

| <b>Mode 2: Transmit by 802.11n(20MHz) with Beamforming</b> |                 |                                                 |      |             |                                     |                     |                     |
|------------------------------------------------------------|-----------------|-------------------------------------------------|------|-------------|-------------------------------------|---------------------|---------------------|
| Channel No.                                                | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz)    |      | Duty factor | Total Measurement PSD (dBm/MHz)     | Limit (dBm/MHz)     | Result              |
|                                                            |                 | Ant3                                            | Ant4 |             |                                     |                     |                     |
| CH36                                                       | 5180            | 5.18                                            | 4.94 | 0.26        | 8.33                                | 16.25/15.63 (note1) | Pass                |
| CH44                                                       | 5220            | 6.32                                            | 5.78 | 0.26        | 9.33                                | 16.25/15.63 (note1) | Pass                |
| CH48                                                       | 5240            | 5.91                                            | 5.41 | 0.26        | 8.94                                | 16.25/15.63 (note1) | Pass                |
| Channel No.                                                | Frequency (MHz) | Measurement Power Spectral Density (dBm/500KHz) |      | Duty factor | Total Measurement PSD (dBm/500KHz ) | Limit (dBm/500KHz)  | Limit (dBm/500 KHz) |
|                                                            |                 | Ant3                                            | Ant4 |             |                                     |                     |                     |
| CH149                                                      | 5745            | 0.77                                            | 0.95 | 0.26        | 4.13                                | 29.25/28.63 (note1) | Pass                |
| CH157                                                      | 5785            | 1.38                                            | 0.86 | 0.26        | 4.40                                | 29.25/28.63 (note1) | Pass                |
| CH165                                                      | 5825            | 0.94                                            | 0.65 | 0.26        | 4.07                                | 29.25/28.63 (note1) | Pass                |

Note1: 16.25dBm/MHz is AP305C PSD limit, 15.63dBm/MHz is AP305CX PSD limit.

Note2: 29.25dBm/500KHz is AP305C PSD limit, 28.63dBm/500KHz is AP305CX PSD limit.

**Mode 3: Transmit by 802.11n(40MHz) with SISO**

| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz)    |       | Duty factor | Total Measurement PSD (dBm/MHz)    |       | Limit (dBm/MHz)    | Result             |
|-------------|-----------------|-------------------------------------------------|-------|-------------|------------------------------------|-------|--------------------|--------------------|
|             |                 | Ant3                                            | Ant4  |             | Ant3                               | Ant4  |                    |                    |
| CH38        | 5190            | 1.87                                            | 3.01  | 0.64        | 2.51                               | 3.65  | 17                 | Pass               |
| CH46        | 5230            | 1.33                                            | 2.60  | 0.64        | 1.97                               | 3.24  | 17                 | Pass               |
| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/500KHz) |       | Duty factor | Total Measurement PSD (dBm/500KHz) |       | Limit (dBm/500KHz) | Limit (dBm/500KHz) |
|             |                 | Ant3                                            | Ant4  |             | Ant3                               | Ant4  |                    |                    |
| CH151       | 5755            | -1.35                                           | -1.12 | 0.64        | -0.71                              | -0.48 | 30                 | Pass               |
| CH159       | 5795            | -2.01                                           | -1.50 | 0.64        | -1.37                              | -0.86 | 30                 | Pass               |

**Mode 3: Transmit by 802.11n(40MHz) with CDD**

| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz)    |       | Duty factor | Total Measurement PSD (dBm/MHz)    | Limit (dBm/MHz)     | Result             |
|-------------|-----------------|-------------------------------------------------|-------|-------------|------------------------------------|---------------------|--------------------|
|             |                 | Ant3                                            | Ant4  |             |                                    |                     |                    |
| CH38        | 5190            | 1.62                                            | -0.67 | 0.64        | 4.27                               | 16.25/15.63 (note1) | Pass               |
| CH46        | 5230            | 2.03                                            | 3.61  | 0.64        | 6.54                               | 16.25/15.63 (note1) | Pass               |
| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/500KHz) |       | Duty factor | Total Measurement PSD (dBm/500KHz) | Limit (dBm/500KHz)  | Limit (dBm/500KHz) |
|             |                 | Ant3                                            | Ant4  |             |                                    |                     |                    |
| CH151       | 5755            | -2.20                                           | -2.21 | 0.64        | 1.45                               | 29.25/28.63 (note1) | Pass               |
| CH159       | 5795            | -2.27                                           | -1.45 | 0.64        | 1.81                               | 29.25/28.63 (note1) | Pass               |

Note1: 16.25dBm/MHz is AP305C PSD limit, 15.63dBm/MHz is AP305CX PSD limit.

Note2: 29.25dBm/500KHz is AP305C PSD limit, 28.63dBm/500KHz is AP305CX PSD limit.

**Mode 3: Transmit by 802.11n(40MHz) with Beamforming**

| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz)    |       | Duty factor | Total Measurement PSD (dBm/MHz)     | Limit (dBm/MHz)     | Result              |
|-------------|-----------------|-------------------------------------------------|-------|-------------|-------------------------------------|---------------------|---------------------|
|             |                 | Ant3                                            | Ant4  |             |                                     |                     |                     |
| CH38        | 5190            | -0.54                                           | -0.64 | 0.60        | 3.02                                | 16.25/15.63 (note1) | Pass                |
| CH46        | 5230            | 0.49                                            | 3.03  | 0.60        | 5.55                                | 16.25/15.63 (note1) | Pass                |
| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/500KHz) |       | Duty factor | Total Measurement PSD (dBm/500KHz ) | Limit (dBm/500KHz)  | Limit (dBm/500 KHz) |
|             |                 | Ant3                                            | Ant4  |             |                                     |                     |                     |
| CH151       | 5755            | -2.06                                           | -1.68 | 0.60        | 1.74                                | 29.25/28.63 (note1) | Pass                |
| CH159       | 5795            | -4.34                                           | -2.41 | 0.60        | 0.34                                | 29.25/28.63 (note1) | Pass                |

Note1: 16.25dBm/MHz is AP305C PSD limit, 15.63dBm/MHz is AP305CX PSD limit.

Note2: 29.25dBm/500KHz is AP305C PSD limit, 28.63dBm/500KHz is AP305CX PSD limit.

**Mode 4: Transmit by 802.11ac(20MHz) with SISO**

| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz)    |      | Duty factor | Total Measurement PSD (dBm/MHz)    |      | Limit (dBm/MHz)    | Result             |
|-------------|-----------------|-------------------------------------------------|------|-------------|------------------------------------|------|--------------------|--------------------|
|             |                 | Ant3                                            | Ant4 |             | Ant3                               | Ant4 |                    |                    |
| CH36        | 5180            | 5.79                                            | 5.39 | 0.13        | 5.92                               | 5.52 | 17                 | Pass               |
| CH44        | 5220            | 6.27                                            | 5.79 | 0.13        | 6.40                               | 5.92 | 17                 | Pass               |
| CH48        | 5240            | 6.10                                            | 5.59 | 0.13        | 6.23                               | 5.72 | 17                 | Pass               |
| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/500KHz) |      | Duty factor | Total Measurement PSD (dBm/500KHz) |      | Limit (dBm/500KHz) | Limit (dBm/500KHz) |
|             |                 | Ant3                                            | Ant4 |             | Ant3                               | Ant4 |                    |                    |
| CH149       | 5745            | 1.46                                            | 1.84 | 0.13        | 1.59                               | 1.97 | 30                 | Pass               |
| CH157       | 5785            | 1.67                                            | 1.25 | 0.13        | 1.80                               | 1.38 | 30                 | Pass               |
| CH165       | 5825            | 1.41                                            | 1.99 | 0.13        | 1.54                               | 2.12 | 30                 | Pass               |

**Mode 4: Transmit by 802.11ac(20MHz) with CDD**

| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz)    |      | Duty factor | Total Measurement PSD (dBm/MHz)    | Limit (dBm/MHz)     | Result             |
|-------------|-----------------|-------------------------------------------------|------|-------------|------------------------------------|---------------------|--------------------|
|             |                 | Ant3                                            | Ant4 |             |                                    |                     |                    |
| CH36        | 5180            | 6.09                                            | 4.78 | 0.13        | 8.62                               | 16.25/15.63 (note1) | Pass               |
| CH44        | 5220            | 6.08                                            | 5.66 | 0.13        | 9.02                               | 16.25/15.63 (note1) | Pass               |
| CH48        | 5240            | 6.21                                            | 5.87 | 0.13        | 9.18                               | 16.25/15.63 (note1) | Pass               |
| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/500KHz) |      | Duty factor | Total Measurement PSD (dBm/500KHz) | Limit (dBm/500KHz)  | Limit (dBm/500KHz) |
|             |                 | Ant3                                            | Ant4 |             |                                    |                     |                    |
| CH149       | 5745            | 1.33                                            | 0.62 | 0.13        | 4.13                               | 29.25/28.63 (note1) | Pass               |
| CH157       | 5785            | 0.98                                            | 0.99 | 0.13        | 4.13                               | 29.25/28.63 (note1) | Pass               |
| CH165       | 5825            | 1.39                                            | 0.49 | 0.13        | 4.10                               | 29.25/28.63 (note1) | Pass               |

Note1: 16.25dBm/MHz is AP305C PSD limit, 15.63dBm/MHz is AP305CX PSD limit.

Note2: 29.25dBm/500KHz is AP305C PSD limit, 28.63dBm/500KHz is AP305CX PSD limit.



| Mode 4: Transmit by 802.11ac(20MHz) with Beamforming |                 |                                                 |      |             |                                     |                     |                     |
|------------------------------------------------------|-----------------|-------------------------------------------------|------|-------------|-------------------------------------|---------------------|---------------------|
| Channel No.                                          | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz)    |      | Duty factor | Total Measurement PSD (dBm/MHz)     | Limit (dBm/MHz)     | Result              |
|                                                      |                 | Ant3                                            | Ant4 |             |                                     |                     |                     |
| CH36                                                 | 5180            | 5.01                                            | 4.79 | 0.11        | 8.02                                | 16.25/15.63 (note1) | Pass                |
| CH44                                                 | 5220            | 6.30                                            | 5.37 | 0.11        | 8.98                                | 16.25/15.63 (note1) | Pass                |
| CH48                                                 | 5240            | 6.23                                            | 5.21 | 0.11        | 8.87                                | 16.25/15.63 (note1) | Pass                |
| Channel No.                                          | Frequency (MHz) | Measurement Power Spectral Density (dBm/500KHz) |      | Duty factor | Total Measurement PSD (dBm/500KHz ) | Limit (dBm/500KHz)  | Limit (dBm/500 KHz) |
|                                                      |                 | Ant3                                            | Ant4 |             |                                     |                     |                     |
| CH149                                                | 5745            | 1.11                                            | 1.65 | 0.11        | 4.51                                | 29.25/28.63 (note1) | Pass                |
| CH157                                                | 5785            | 0.87                                            | 0.69 | 0.11        | 3.90                                | 29.25/28.63 (note1) | Pass                |
| CH165                                                | 5825            | 0.47                                            | 0.32 | 0.11        | 3.52                                | 29.25/28.63 (note1) | Pass                |

Note1: 16.25dBm/MHz is AP305C PSD limit, 15.63dBm/MHz is AP305CX PSD limit.

Note2: 29.25dBm/500KHz is AP305C PSD limit, 28.63dBm/500KHz is AP305CX PSD limit.

**Mode 5: Transmit by 802.11ac(40MHz) with SISO**

| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz)    |       | Duty factor | Total Measurement PSD (dBm/MHz)    |       | Limit (dBm/MHz)    | Result             |
|-------------|-----------------|-------------------------------------------------|-------|-------------|------------------------------------|-------|--------------------|--------------------|
|             |                 | Ant3                                            | Ant4  |             | Ant3                               | Ant4  |                    |                    |
| CH38        | 5190            | 2.95                                            | 2.73  | 0.35        | 3.30                               | 3.08  | 17                 | Pass               |
| CH46        | 5230            | 2.32                                            | 2.17  | 0.35        | 2.67                               | 2.52  | 17                 | Pass               |
| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/500KHz) |       | Duty factor | Total Measurement PSD (dBm/500KHz) |       | Limit (dBm/500KHz) | Limit (dBm/500KHz) |
|             |                 | Ant3                                            | Ant4  |             | Ant3                               | Ant4  |                    |                    |
| CH151       | 5755            | -1.20                                           | -0.64 | 0.35        | -0.85                              | -0.29 | 30                 | Pass               |
| CH159       | 5795            | 0.09                                            | -0.56 | 0.35        | 0.44                               | -0.21 | 30                 | Pass               |

**Mode 5: Transmit by 802.11ac(40MHz) with CDD**

| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz)    |       | Duty factor | Total Measurement PSD (dBm/MHz)    | Limit (dBm/MHz)     | Result             |
|-------------|-----------------|-------------------------------------------------|-------|-------------|------------------------------------|---------------------|--------------------|
|             |                 | Ant3                                            | Ant4  |             |                                    |                     |                    |
| CH38        | 5190            | 3.33                                            | -1.25 | 0.35        | 4.98                               | 16.25/15.63 (note1) | Pass               |
| CH46        | 5230            | 2.56                                            | 2.00  | 0.35        | 5.65                               | 16.25/15.63 (note1) | Pass               |
| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/500KHz) |       | Duty factor | Total Measurement PSD (dBm/500KHz) | Limit (dBm/500KHz)  | Limit (dBm/500KHz) |
|             |                 | Ant3                                            | Ant4  |             |                                    |                     |                    |
| CH151       | 5755            | -0.37                                           | -2.17 | 0.35        | 2.18                               | 29.25/28.63 (note1) | Pass               |
| CH159       | 5795            | -0.42                                           | -1.06 | 0.35        | 2.63                               | 29.25/28.63 (note1) | Pass               |

Note1: 16.25dBm/MHz is AP305C PSD limit, 15.63dBm/MHz is AP305CX PSD limit.

Note2: 29.25dBm/500KHz is AP305C PSD limit, 28.63dBm/500KHz is AP305CX PSD limit.

| <b>Mode 5: Transmit by 802.11ac(40MHz) with Beamforming</b> |                 |                                                 |       |             |                                     |                     |                     |
|-------------------------------------------------------------|-----------------|-------------------------------------------------|-------|-------------|-------------------------------------|---------------------|---------------------|
| Channel No.                                                 | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz)    |       | Duty factor | Total Measurement PSD (dBm/MHz)     | Limit (dBm/MHz)     | Result              |
|                                                             |                 | Ant3                                            | Ant4  |             |                                     |                     |                     |
| CH38                                                        | 5190            | -0.95                                           | -2.68 | 0.37        | 1.65                                | 16.25/15.63 (note1) | Pass                |
| CH46                                                        | 5230            | 1.86                                            | 1.56  | 0.37        | 5.09                                | 16.25/15.63 (note1) | Pass                |
| Channel No.                                                 | Frequency (MHz) | Measurement Power Spectral Density (dBm/500KHz) |       | Duty factor | Total Measurement PSD (dBm/500KHz ) | Limit (dBm/500KHz)  | Limit (dBm/500 KHz) |
|                                                             |                 | Ant3                                            | Ant4  |             |                                     |                     |                     |
| CH151                                                       | 5755            | -2.77                                           | -3.22 | 0.37        | 0.39                                | 29.25/28.63 (note1) | Pass                |
| CH159                                                       | 5795            | -2.25                                           | -1.07 | 0.37        | 1.76                                | 29.25/28.63 (note1) | Pass                |

Note1: 16.25dBm/MHz is AP305C PSD limit, 15.63dBm/MHz is AP305CX PSD limit.

Note2: 29.25dBm/500KHz is AP305C PSD limit, 28.63dBm/500KHz is AP305CX PSD limit.

**Mode 6: Transmit by 802.11ac(80MHz) with SISO**

| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz)    |       | Duty factor | Total Measurement PSD (dBm/MHz)    |       | Limit (dBm/MHz)    | Result             |
|-------------|-----------------|-------------------------------------------------|-------|-------------|------------------------------------|-------|--------------------|--------------------|
|             |                 | Ant3                                            | Ant4  |             | Ant3                               | Ant4  |                    |                    |
| CH42        | 5210            | -0.33                                           | 0.03  | 0.61        | 0.28                               | 0.64  | 17                 | Pass               |
| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/500KHz) |       | Duty factor | Total Measurement PSD (dBm/500KHz) |       | Limit (dBm/500KHz) | Limit (dBm/500KHz) |
|             |                 | Ant3                                            | Ant4  |             | Ant3                               | Ant4  |                    |                    |
| CH155       | 5775            | -3.87                                           | -3.72 | 0.61        | -3.26                              | -3.11 | 30                 | Pass               |

**Mode 6: Transmit by 802.11ac(80MHz) with CDD**

| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz)    |       | Duty factor | Total Measurement PSD (dBm/MHz)    | Limit (dBm/MHz)     | Result             |
|-------------|-----------------|-------------------------------------------------|-------|-------------|------------------------------------|---------------------|--------------------|
|             |                 | Ant3                                            | Ant4  |             |                                    |                     |                    |
| CH42        | 5210            | -0.76                                           | -3.80 | 0.61        | 1.60                               | 16.25/15.63 (note1) | Pass               |
| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/500KHz) |       | Duty factor | Total Measurement PSD (dBm/500KHz) | Limit (dBm/500KHz)  | Limit (dBm/500KHz) |
|             |                 | Ant3                                            | Ant4  |             |                                    |                     |                    |
| CH155       | 5775            | -3.54                                           | -3.49 | 0.61        | 0.11                               | 29.25/28.63 (note1) | Pass               |

Note1: 16.25dBm/MHz is AP305C PSD limit, 15.63dBm/MHz is AP305CX PSD limit.

Note2: 29.25dBm/500KHz is AP305C PSD limit, 28.63dBm/500KHz is AP305CX PSD limit.

**Mode 6: Transmit by 802.11ac(80MHz) with Beamforming**

| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz)    |       | Duty factor | Total Measurement PSD (dBm/MHz)    | Limit (dBm/MHz)     | Result             |
|-------------|-----------------|-------------------------------------------------|-------|-------------|------------------------------------|---------------------|--------------------|
|             |                 | Ant3                                            | Ant4  |             |                                    |                     |                    |
| CH42        | 5210            | -4.10                                           | -3.81 | 0.61        | -0.33                              | 16.25/15.63 (note1) | Pass               |
| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/500KHz) |       | Duty factor | Total Measurement PSD (dBm/500KHz) | Limit (dBm/500KHz)  | Limit (dBm/500KHz) |
|             |                 | Ant3                                            | Ant4  |             |                                    |                     |                    |
| CH155       | 5775            | -3.16                                           | -3.50 | 0.61        | 0.29                               | 29.25/28.63 (note1) | Pass               |

Note1: 16.25dBm/MHz is AP305C PSD limit, 15.63dBm/MHz is AP305CX PSD limit.

Note2: 29.25dBm/500KHz is AP305C PSD limit, 28.63dBm/500KHz is AP305CX PSD limit.

**Mode 7: Transmit by 802.11ax(20MHz) with SISO**

| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz)    |      | Duty factor | Total Measurement PSD (dBm/MHz)    |      | Limit (dBm/MHz)    | Result             |
|-------------|-----------------|-------------------------------------------------|------|-------------|------------------------------------|------|--------------------|--------------------|
|             |                 | Ant3                                            | Ant4 |             | Ant3                               | Ant4 |                    |                    |
| CH36        | 5180            | 5.42                                            | 5.54 | 0.13        | 5.55                               | 5.67 | 17                 | Pass               |
| CH44        | 5220            | 5.66                                            | 5.88 | 0.13        | 5.79                               | 6.01 | 17                 | Pass               |
| CH48        | 5240            | 6.11                                            | 5.61 | 0.13        | 6.24                               | 5.74 | 17                 | Pass               |
| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/500KHz) |      | Duty factor | Total Measurement PSD (dBm/500KHz) |      | Limit (dBm/500KHz) | Limit (dBm/500KHz) |
|             |                 | Ant3                                            | Ant4 |             | Ant3                               | Ant4 |                    |                    |
| CH149       | 5745            | 1.39                                            | 0.83 | 0.13        | 1.52                               | 0.96 | 30                 | Pass               |
| CH157       | 5785            | 0.98                                            | 1.61 | 0.13        | 1.11                               | 1.74 | 30                 | Pass               |
| CH165       | 5825            | 1.31                                            | 1.96 | 0.13        | 1.44                               | 2.09 | 30                 | Pass               |

**Mode 7: Transmit by 802.11ax(20MHz) with CDD**

| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz)    |      | Duty factor | Total Measurement PSD (dBm/MHz)    | Limit (dBm/MHz)     | Result             |
|-------------|-----------------|-------------------------------------------------|------|-------------|------------------------------------|---------------------|--------------------|
|             |                 | Ant3                                            | Ant4 |             |                                    |                     |                    |
| CH36        | 5180            | 5.52                                            | 5.30 | 0.13        | 8.55                               | 16.25/15.63 (note1) | Pass               |
| CH44        | 5220            | 6.07                                            | 5.88 | 0.13        | 9.12                               | 16.25/15.63 (note1) | Pass               |
| CH48        | 5240            | 5.57                                            | 6.01 | 0.13        | 8.94                               | 16.25/15.63 (note1) | Pass               |
| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/500KHz) |      | Duty factor | Total Measurement PSD (dBm/500KHz) | Limit (dBm/500KHz)  | Limit (dBm/500KHz) |
|             |                 | Ant3                                            | Ant4 |             |                                    |                     |                    |
| CH149       | 5745            | 0.62                                            | 0.83 | 0.13        | 3.87                               | 29.25/28.63 (note1) | Pass               |
| CH157       | 5785            | 1.59                                            | 1.34 | 0.13        | 4.61                               | 29.25/28.63 (note1) | Pass               |
| CH165       | 5825            | 1.43                                            | 0.62 | 0.13        | 4.18                               | 29.25/28.63 (note1) | Pass               |

Note1: 16.25dBm/MHz is AP305C PSD limit, 15.63dBm/MHz is AP305CX PSD limit.

Note2: 29.25dBm/500KHz is AP305C PSD limit, 28.63dBm/500KHz is AP305CX PSD limit.

| <b>Mode 7: Transmit by 802.11ax(20MHz) with Beamforming</b> |                 |                                                 |      |             |                                     |                     |                     |
|-------------------------------------------------------------|-----------------|-------------------------------------------------|------|-------------|-------------------------------------|---------------------|---------------------|
| Channel No.                                                 | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz)    |      | Duty factor | Total Measurement PSD (dBm/MHz)     | Limit (dBm/MHz)     | Result              |
|                                                             |                 | Ant3                                            | Ant4 |             |                                     |                     |                     |
| CH36                                                        | 5180            | 5.16                                            | 4.69 | 0.14        | 8.08                                | 16.25/15.63 (note1) | Pass                |
| CH44                                                        | 5220            | 6.06                                            | 6.10 | 0.14        | 9.23                                | 16.25/15.63 (note1) | Pass                |
| CH48                                                        | 5240            | 5.88                                            | 6.97 | 0.14        | 9.61                                | 16.25/15.63 (note1) | Pass                |
| Channel No.                                                 | Frequency (MHz) | Measurement Power Spectral Density (dBm/500KHz) |      | Duty factor | Total Measurement PSD (dBm/500KHz ) | Limit (dBm/500KHz)  | Limit (dBm/500 KHz) |
|                                                             |                 | Ant3                                            | Ant4 |             |                                     |                     |                     |
| CH149                                                       | 5745            | 1.40                                            | 1.38 | 0.14        | 4.54                                | 29.25/28.63 (note1) | Pass                |
| CH157                                                       | 5785            | 0.72                                            | 1.33 | 0.14        | 4.19                                | 29.25/28.63 (note1) | Pass                |
| CH165                                                       | 5825            | 1.58                                            | 0.77 | 0.14        | 4.34                                | 29.25/28.63 (note1) | Pass                |

Note1: 16.25dBm/MHz is AP305C PSD limit, 15.63dBm/MHz is AP305CX PSD limit.

Note2: 29.25dBm/500KHz is AP305C PSD limit, 28.63dBm/500KHz is AP305CX PSD limit.

**Mode 8: Transmit by 802.11ax(40MHz) with SISO**

| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz)    |       | Duty factor | Total Measurement PSD (dBm/MHz)    |       | Limit (dBm/MHz)    | Result             |
|-------------|-----------------|-------------------------------------------------|-------|-------------|------------------------------------|-------|--------------------|--------------------|
|             |                 | Ant3                                            | Ant4  |             | Ant3                               | Ant4  |                    |                    |
| CH38        | 5190            | 2.75                                            | 2.56  | 0.40        | 3.15                               | 2.96  | 17                 | Pass               |
| CH46        | 5230            | 2.39                                            | 2.58  | 0.40        | 2.79                               | 2.98  | 17                 | Pass               |
| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/500KHz) |       | Duty factor | Total Measurement PSD (dBm/500KHz) |       | Limit (dBm/500KHz) | Limit (dBm/500KHz) |
|             |                 | Ant3                                            | Ant4  |             | Ant3                               | Ant4  |                    |                    |
| CH151       | 5755            | -1.04                                           | -0.87 | 0.40        | -0.64                              | -0.47 | 30                 | Pass               |
| CH159       | 5795            | -0.82                                           | -0.47 | 0.40        | -0.42                              | -0.07 | 30                 | Pass               |

**Mode 8: Transmit by 802.11ax(40MHz) with CDD**

| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz)    |       | Duty factor | Total Measurement PSD (dBm/MHz)    | Limit (dBm/MHz)     | Result             |
|-------------|-----------------|-------------------------------------------------|-------|-------------|------------------------------------|---------------------|--------------------|
|             |                 | Ant3                                            | Ant4  |             |                                    |                     |                    |
| CH38        | 5190            | 2.37                                            | -2.07 | 0.40        | 4.10                               | 16.25/15.63 (note1) | Pass               |
| CH46        | 5230            | 2.45                                            | 2.04  | 0.40        | 5.66                               | 16.25/15.63 (note1) | Pass               |
| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/500KHz) |       | Duty factor | Total Measurement PSD (dBm/500KHz) | Limit (dBm/500KHz)  | Limit (dBm/500KHz) |
|             |                 | Ant3                                            | Ant4  |             |                                    |                     |                    |
| CH151       | 5755            | -1.36                                           | -3.35 | 0.40        | 1.17                               | 29.25/28.63 (note1) | Pass               |
| CH159       | 5795            | -1.08                                           | -2.55 | 0.40        | 1.66                               | 29.25/28.63 (note1) | Pass               |

Note1: 16.25dBm/MHz is AP305C PSD limit, 15.63dBm/MHz is AP305CX PSD limit.

Note2: 29.25dBm/500KHz is AP305C PSD limit, 28.63dBm/500KHz is AP305CX PSD limit.



| <b>Mode 8: Transmit by 802.11ax(40MHz) with Beamforming</b> |                 |                                                 |       |             |                                     |                     |                     |
|-------------------------------------------------------------|-----------------|-------------------------------------------------|-------|-------------|-------------------------------------|---------------------|---------------------|
| Channel No.                                                 | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz)    |       | Duty factor | Total Measurement PSD (dBm/MHz)     | Limit (dBm/MHz)     | Result              |
|                                                             |                 | Ant3                                            | Ant4  |             |                                     |                     |                     |
| CH38                                                        | 5190            | -0.58                                           | -0.63 | 0.39        | 2.80                                | 16.25/15.63 (note1) | Pass                |
| CH46                                                        | 5230            | 1.00                                            | 0.63  | 0.39        | 4.22                                | 16.25/15.63 (note1) | Pass                |
| Channel No.                                                 | Frequency (MHz) | Measurement Power Spectral Density (dBm/500KHz) |       | Duty factor | Total Measurement PSD (dBm/500KHz ) | Limit (dBm/500KHz)  | Limit (dBm/500 KHz) |
|                                                             |                 | Ant3                                            | Ant4  |             |                                     |                     |                     |
| CH151                                                       | 5755            | -1.56                                           | -3.10 | 0.39        | 1.14                                | 29.25/28.63 (note1) | Pass                |
| CH159                                                       | 5795            | -1.37                                           | -1.71 | 0.39        | 1.86                                | 29.25/28.63 (note1) | Pass                |

Note1: 16.25dBm/MHz is AP305C PSD limit, 15.63dBm/MHz is AP305CX PSD limit.

Note2: 29.25dBm/500KHz is AP305C PSD limit, 28.63dBm/500KHz is AP305CX PSD limit.

**Mode 9: Transmit by 802.11ax(80MHz) with SISO**

| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz)    |       | Duty factor | Total Measurement PSD (dBm/MHz)    |       | Limit (dBm/MHz)    | Result             |
|-------------|-----------------|-------------------------------------------------|-------|-------------|------------------------------------|-------|--------------------|--------------------|
|             |                 | Ant3                                            | Ant4  |             | Ant3                               | Ant4  |                    |                    |
| CH42        | 5210            | -0.62                                           | -0.36 | 0.50        | -0.12                              | 0.14  | 17                 | Pass               |
| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/500KHz) |       | Duty factor | Total Measurement PSD (dBm/500KHz) |       | Limit (dBm/500KHz) | Limit (dBm/500KHz) |
|             |                 | Ant3                                            | Ant4  |             | Ant3                               | Ant4  |                    |                    |
| CH155       | 5775            | -3.27                                           | -2.58 | 0.50        | -2.77                              | -2.08 | 30                 | Pass               |

**Mode 9: Transmit by 802.11ax(80MHz) with CDD**

| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz)    |       | Duty factor | Total Measurement PSD (dBm/MHz)    | Limit (dBm/MHz)     | Result             |
|-------------|-----------------|-------------------------------------------------|-------|-------------|------------------------------------|---------------------|--------------------|
|             |                 | Ant3                                            | Ant4  |             |                                    |                     |                    |
| CH42        | 5210            | -0.18                                           | -4.01 | 0.50        | 1.82                               | 16.25/15.63 (note1) | Pass               |
| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/500KHz) |       | Duty factor | Total Measurement PSD (dBm/500KHz) | Limit (dBm/500KHz)  | Limit (dBm/500KHz) |
|             |                 | Ant3                                            | Ant4  |             |                                    |                     |                    |
| CH155       | 5775            | -3.58                                           | -3.29 | 0.50        | 0.08                               | 29.25/28.63 (note1) | Pass               |

Note1: 16.25dBm/MHz is AP305C PSD limit, 15.63dBm/MHz is AP305CX PSD limit.

Note2: 29.25dBm/500KHz is AP305C PSD limit, 28.63dBm/500KHz is AP305CX PSD limit.

**Mode 9: Transmit by 802.11ax(80MHz) with Beamforming**

| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/MHz)    |       | Duty factor | Total Measurement PSD (dBm/MHz)    | Limit (dBm/MHz)     | Result             |
|-------------|-----------------|-------------------------------------------------|-------|-------------|------------------------------------|---------------------|--------------------|
|             |                 | Ant3                                            | Ant4  |             |                                    |                     |                    |
| CH42        | 5210            | -4.55                                           | -4.35 | 0.53        | -0.91                              | 16.25/15.63 (note1) | Pass               |
| Channel No. | Frequency (MHz) | Measurement Power Spectral Density (dBm/500KHz) |       | Duty factor | Total Measurement PSD (dBm/500KHz) | Limit (dBm/500KHz)  | Limit (dBm/500KHz) |
|             |                 | Ant3                                            | Ant4  |             |                                    |                     |                    |
| CH155       | 5775            | -3.26                                           | -3.46 | 0.53        | 0.18                               | 29.25/28.63 (note1) | Pass               |

Note1: 16.25dBm/MHz is AP305C PSD limit, 15.63dBm/MHz is AP305CX PSD limit.

Note2: 29.25dBm/500KHz is AP305C PSD limit, 28.63dBm/500KHz is AP305CX PSD limit.

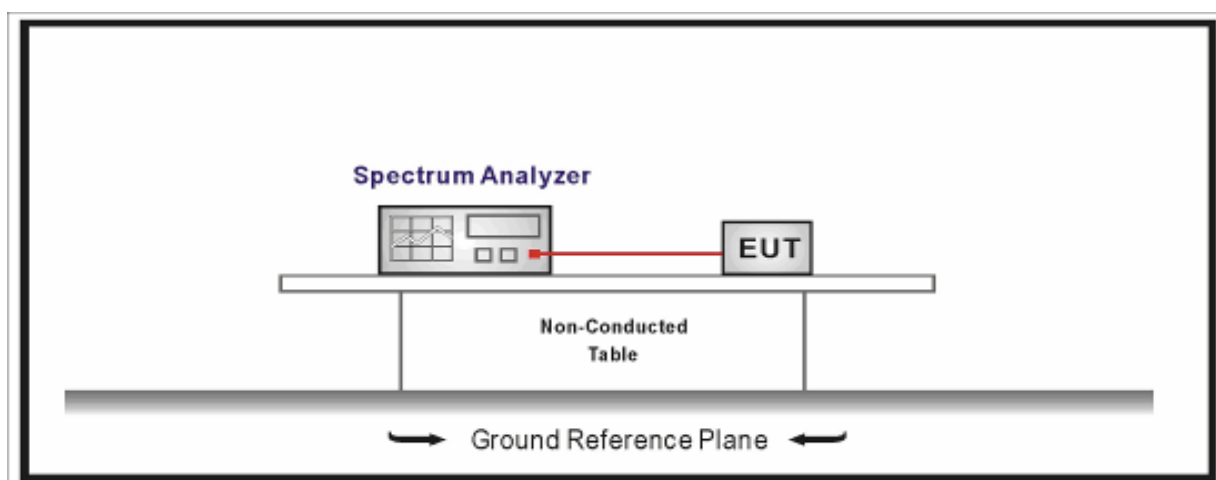
## 9. Band Edge

### 9.1. Test Equipment

| Band Edge / TR-8           |              |          |            |            |               |
|----------------------------|--------------|----------|------------|------------|---------------|
| Instrument                 | Manufacturer | Type No. | Serial No. | Cal. Date  | Cal. Due Date |
| Spectrum Analyzer          | Agilent      | N9010A   | MY48030494 | 2019.02.04 | 2020.02.03    |
| EXA Spectrum Analyzer      | Keysight     | N9010A   | MY55370495 | 2019.04.09 | 2020.04.08    |
| Signal Analyzer            | R&S          | FSV      | 104212     | 2019.02.23 | 2020.02.22    |
| MXA Signal Analyzer        | Keysight     | N9020A   | MY56060147 | 2019.04.09 | 2020.04.08    |
| Temperature/Humidity Meter | zhichen      | ZC1-2    | TR8-TH     | 2019.04.10 | 2020.04.09    |

Note: All equipment are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

### 9.2. Test Setup



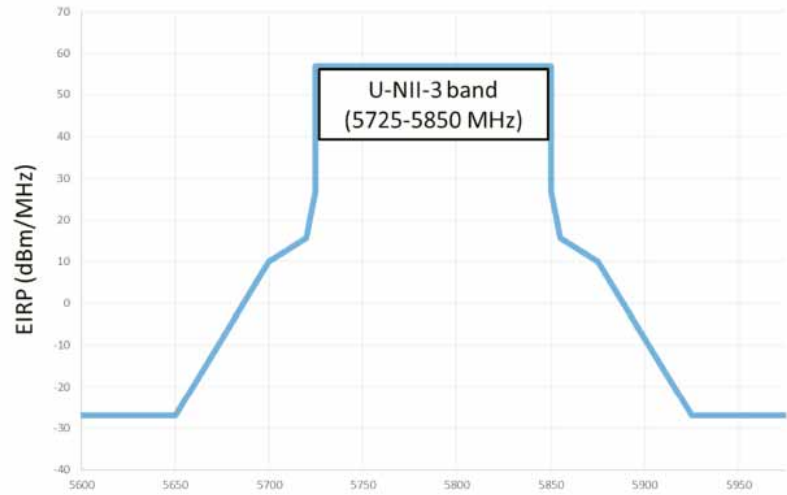
### 9.3. Limit

| FCC Part 15 Subpart C Paragraph 15.209 (Restricted Band Emissions Limit) |              |                |
|--------------------------------------------------------------------------|--------------|----------------|
| Frequency (MHz)                                                          | Distance (m) | Level (dBμV/m) |
| 0.009-0.490                                                              | 300          | 2400/F(kHz)    |
| 0.490-1.705                                                              | 30           | 24000/F(kHz)   |
| 1.705-30.0                                                               | 30           | 30             |
| 30-88                                                                    | 3            | 100**          |
| 88-216                                                                   | 3            | 150**          |
| 216-960                                                                  | 3            | 200**          |
| Above 960                                                                | 3            | 500            |

Note 1: At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade).

Note 2: At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

| FCC Part 15 Subpart C Paragraph 15.205 (Restricted Band) |                       |                 |                 |
|----------------------------------------------------------|-----------------------|-----------------|-----------------|
| Frequency (MHz)                                          | Frequency (MHz)       | Frequency (MHz) | Frequency (MHz) |
| 0.090 – 0.110                                            | 16.42 – 16.423        | 399.9 – 410     | 4.5 – 5.15      |
| 0.495 – 0.505                                            | 16.69475 – 16.69525   | 608 – 614       | 5.35 – 5.46     |
| 2.1735 – 2.1905                                          | 16.80425 – 16.80475   | 960 – 1240      | 7.25 – 7.75     |
| 4.125 – 4.128                                            | 25.5 – 25.67          | 1300 – 1427     | 8.025 – 8.5     |
| 4.17725 – 4.17775                                        | 37.5 – 38.25          | 1435 – 1626.5   | 9.0 – 9.2       |
| 4.20725 – 4.20775                                        | 73 – 74.6             | 1645.5 – 1646.5 | 9.3 – 9.5       |
| 6.215 – 6.218                                            | 74.8 – 75.2           | 1660 – 1710     | 10.6 – 12.7     |
| 6.26775 – 6.26825                                        | 108 – 121.94          | 1718.8 – 1722.2 | 13.25 – 13.4    |
| 6.31175 – 6.31225                                        | 123 – 138             | 2200 – 2300     | 14.47 – 14.5    |
| 8.291 – 8.294                                            | 149.9 – 150.05        | 2310 – 2390     | 15.35 – 16.2    |
| 8.362 – 8.366                                            | 156.52475 – 156.52525 | 2483.5 – 2500   | 17.7 – 21.4     |
| 8.37625 – 8.38675                                        | 156.7 – 156.9         | 2690 – 2900     | 22.01 – 23.12   |
| 8.81425 – 8.81475                                        | 162.0125 – 167.17     | 3260 – 3267     | 23.6 – 24.0     |
| 12.29 – 12.293                                           | 167.72 – 173.2        | 3332 – 3339     | 31.2 – 31.8     |
| 12.51975 – 12.52025                                      | 240 – 285             | 3345.8 – 3358   | 36.43 – 36.5    |
| 12.57675 – 12.57725                                      | 322 – 335.4           | 3600 – 4400     |                 |
| 13.36 – 13.41                                            |                       |                 |                 |

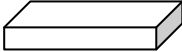
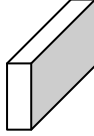
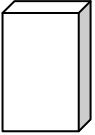
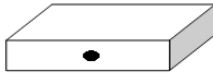
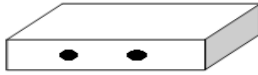
| FCC Part 15 Subpart E Paragraph 15.407(5)(b) (Unrestricted Band Emissions Limit) |                                                                                                                         |                                                |
|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| Operating Frequency Band (MHz)                                                   | EIRP Limit (dBm/MHz)                                                                                                    | Equivalent Field Strength at 3m (dB $\mu$ V/m) |
| 5150 - 5250                                                                      | -27                                                                                                                     | 68.3                                           |
| 5250 - 5350                                                                      | -27                                                                                                                     | 68.3                                           |
| 5470 - 5725                                                                      | -27                                                                                                                     | 68.3                                           |
| Operating Frequency Band (MHz)                                                   | EIRP Limit (dBm/MHz)                                                                                                    |                                                |
| 5725 - 5850                                                                      |  <p>U-NII-3 band (5725-5850 MHz)</p> |                                                |

## 9.4. Test Procedure

| Test Method                         |                                     |                          |          |                                                                                                  |
|-------------------------------------|-------------------------------------|--------------------------|----------|--------------------------------------------------------------------------------------------------|
|                                     | References Rule                     |                          | Chapter  | Description                                                                                      |
| <input type="checkbox"/>            | ANSI C63.10                         |                          | 12.7.3   | Emissions in non-restricted frequency bands                                                      |
| <input checked="" type="checkbox"/> | ANSI C63.10                         |                          | 12.7.2   | Emissions in restricted frequency bands                                                          |
|                                     | <input type="checkbox"/>            | ANSI C63.10              | 12.7.5   | Radiated emission measurements                                                                   |
|                                     | <input checked="" type="checkbox"/> | ANSI C63.10              | 12.7.6   | Procedure for peak unwanted emissions measurements above 1000 MHz                                |
|                                     | <input checked="" type="checkbox"/> | ANSI C63.10              | 12.7.7   | Procedures for average unwanted emissions measurements above 1000 MHz                            |
|                                     | <input type="checkbox"/>            | ANSI C63.10              | 12.7.7.2 | Method AD (average detection)—primary method                                                     |
|                                     | <input checked="" type="checkbox"/> | ANSI C63.10              | 12.7.7.3 | Method VB-A (Alternative)                                                                        |
|                                     | <input type="checkbox"/>            | ANSI C63.10              | 6.4      | Radiated emissions from unlicensed wireless devices below 30 MHz                                 |
|                                     | <input type="checkbox"/>            | ANSI C63.10              | 6.5      | Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz |
|                                     | <input type="checkbox"/>            | ANSI C63.10              | 6.6      | Radiated emissions from unlicensed wireless devices above 1 GHz                                  |
| <input type="checkbox"/>            | FCC KDB 789033 D02v02r01            |                          | G.2      | Unwanted Emissions that fall Outside of the Restricted Bands                                     |
| <input type="checkbox"/>            | FCC KDB 789033 D02v02r01            |                          | G.1      | Unwanted Emissions in the Restricted Bands                                                       |
|                                     | <input type="checkbox"/>            | FCC KDB 789033 D02v02r01 | G.4      | Procedure for Unwanted Emissions Measurements below 1000 MHz                                     |
|                                     | <input type="checkbox"/>            | FCC KDB 789033 D02v02r01 | G.5      | Procedure for Unwanted Maximum Emissions Measurements above 1000 MHz                             |
|                                     | <input type="checkbox"/>            | FCC KDB 789033 D02v02r01 | G.6      | Procedures for Average Unwanted Emissions Measurements above 1000 MHz                            |
|                                     | <input type="checkbox"/>            | FCC KDB 789033 D02v02r01 | G.6.c    | Method AD (Average detection)—primary method                                                     |
|                                     | <input type="checkbox"/>            | FCC KDB 789033 D02v02r01 | G.6.d    | Method VB (Averaging using reduced video bandwidth): Alternative method.                         |



### 9.5. EUT test Axis definition

| Item            | Band Edge                                                                            |                                                                                      |                                                                                      |                                                                                      |
|-----------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Device Category | <input checked="" type="checkbox"/>                                                  | Indoor use                                                                           |                                                                                      |                                                                                      |
|                 | <input type="checkbox"/>                                                             | Outdoor use                                                                          |                                                                                      |                                                                                      |
|                 | <input type="checkbox"/>                                                             | Fix position use                                                                     |                                                                                      |                                                                                      |
|                 | <input type="checkbox"/>                                                             | Client use                                                                           |                                                                                      |                                                                                      |
| Test mode       | Mode 1-9                                                                             |                                                                                      |                                                                                      |                                                                                      |
| Test method     | <input type="checkbox"/>                                                             | Radiated                                                                             |                                                                                      |                                                                                      |
|                 |                                                                                      | X Axis                                                                               | Y Axis                                                                               | Z Axis                                                                               |
|                 |                                                                                      |    |  |  |
|                 |                                                                                      | Worst Axis <input type="checkbox"/>                                                  | Worst Axis <input type="checkbox"/>                                                  | Worst Axis <input type="checkbox"/>                                                  |
|                 | <input checked="" type="checkbox"/>                                                  | Conducted                                                                            |                                                                                      |                                                                                      |
|                 | <input checked="" type="checkbox"/>                                                  | Chain 1                                                                              |                                                                                      |                                                                                      |
|                 |                                                                                      |  |                                                                                      |                                                                                      |
|                 | <input checked="" type="checkbox"/>                                                  | Chain 1                                                                              | Chain 2                                                                              |                                                                                      |
|                 |                                                                                      |  |                                                                                      |                                                                                      |
|                 | <input type="checkbox"/>                                                             | Chain 1                                                                              | Chain 2                                                                              | Chain 3                                                                              |
|                 |                                                                                      |  |                                                                                      |                                                                                      |
|                 | <input checked="" type="checkbox"/>                                                  | Chain 1                                                                              | Chain 2                                                                              | Chain 3                                                                              |
|                 |  |                                                                                      |                                                                                      |                                                                                      |

## 9.6. Test Result

### Eth1:

SISO PK Limit=74dBuV/m-95.2-3.97(Antenna Gain)=-25.17dBm

SISO AV Limit=54dBuV/m-95.2-3.97(Antenna Gain)=-45.17dBm

CDD PK Limit=74dBuV/m-95.2-10lg2(2Tx)-6.97(Directional Gain)=-31.17dBm

CDD AV Limit=54dBuV/m-95.2-10lg2(2Tx)-6.97(Directional Gain)=-51.17dBm

Beamforming PK Limit=74dBuV/m-95.2-10lg2(2Tx)-6.97(Directional Gain)=-31.17dBm

Beamforming AV Limit=54dBuV/m-95.2-10lg2(2Tx)-6.97(Directional Gain)=-51.17dBm

Note: Above limit is the tighter limit of AP305C and AP305CX.

### Eth2:

SISO PK Limit=74dBuV/m-95.2-4.37(Antenna Gain)=-25.57dBm

SISO AV Limit=54dBuV/m-95.2-4.37(Antenna Gain)=-45.57dBm

CDD PK Limit=74dBuV/m-95.2-10lg2(2Tx)-7.37(Directional Gain)=-31.57dBm

CDD AV Limit=54dBuV/m-95.2-10lg2(2Tx)-7.37(Directional Gain)=-51.57dBm

Beamforming PK Limit=74dBuV/m-95.2-10lg2(2Tx)-7.37(Directional Gain)=-31.57dBm

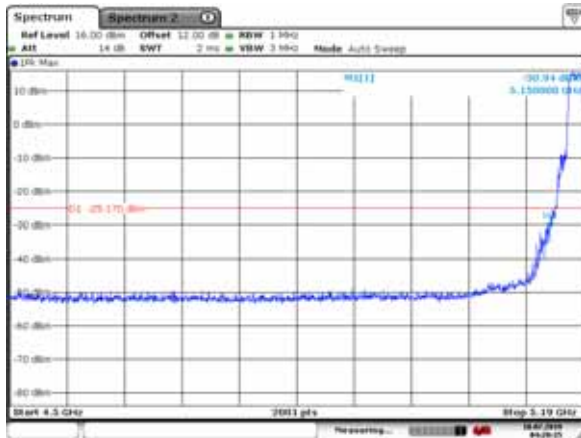
Beamforming AV Limit=54dBuV/m-95.2-10lg2(2Tx)-7.37(Directional Gain)=-51.57dBm

Note: Above limit is the tighter limit of AP305C and AP305CX.

# Eth1:

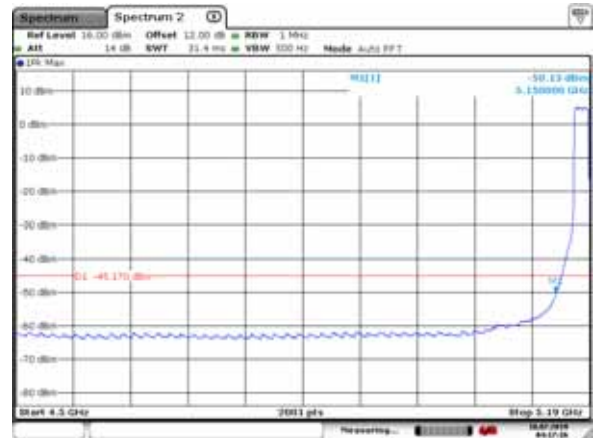
## 802.11a

5180MHz with SISO



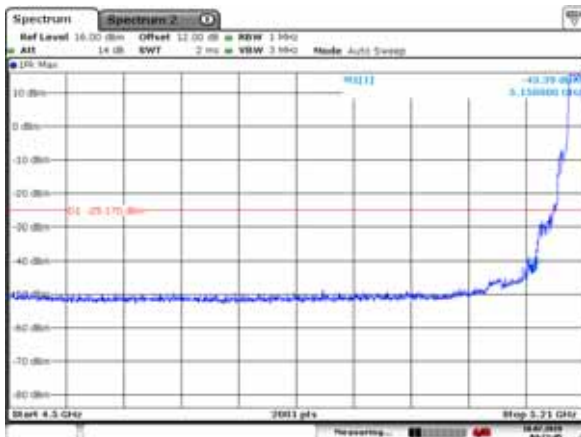
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5180MHz with SISO



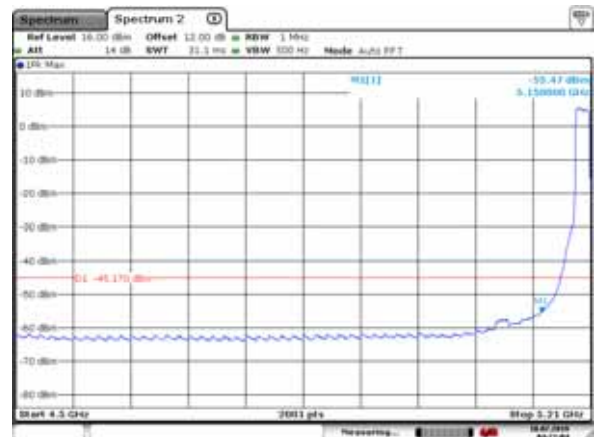
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5200MHz with SISO



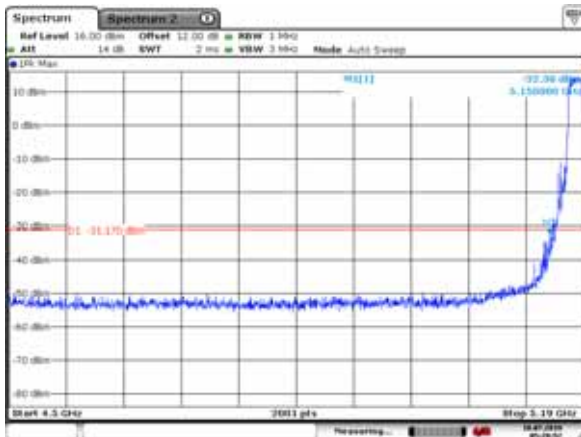
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5200MHz with SISO



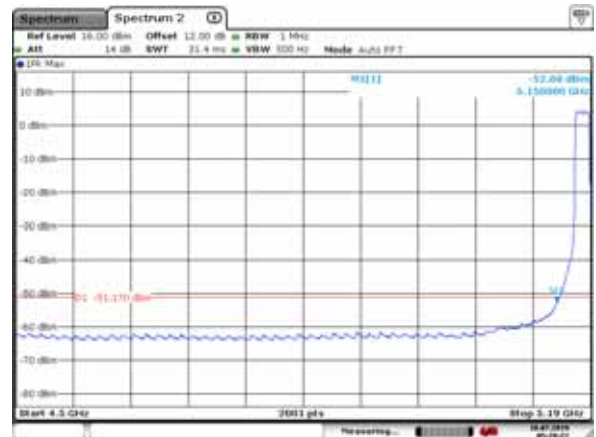
Date: 18. JUL. 2019 04:21:04

5180MHz with CDD



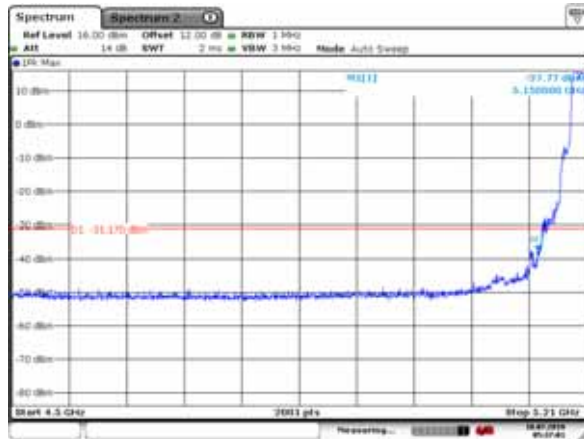
Date: 18. JUL. 2019 05:28:52

5180MHz with CDD



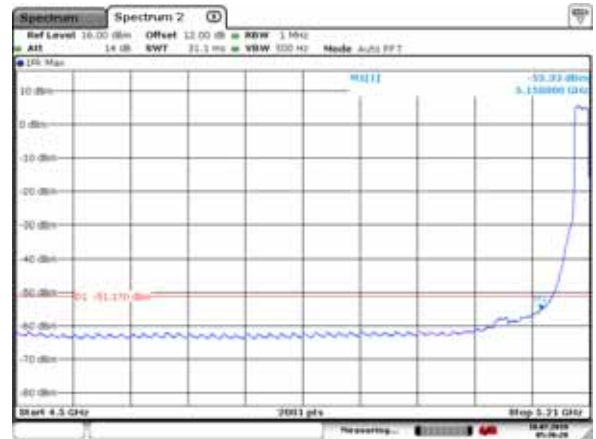
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5200MHz with CDD



Date: 18. JUL. 2019 05:37:01

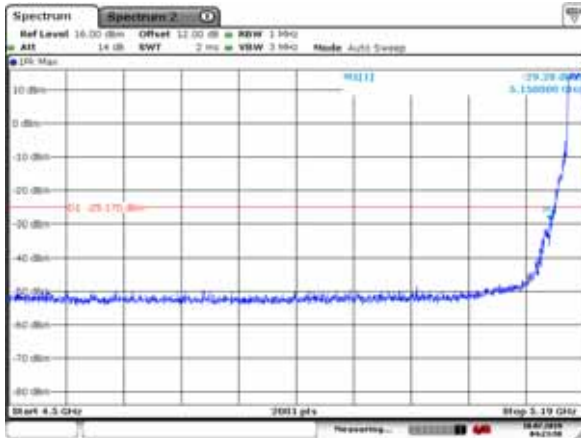
5200MHz with CDD



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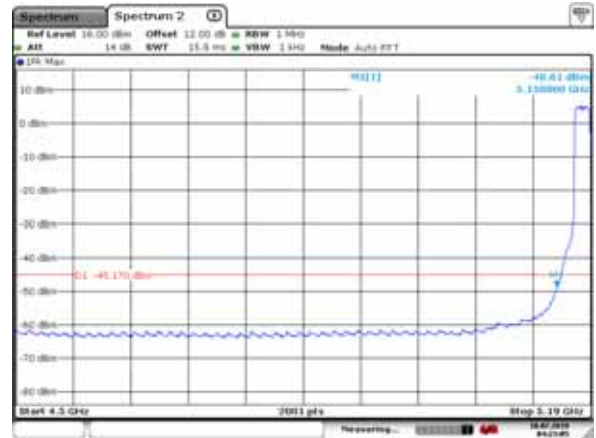
## 802.11n(20MHz)

5180MHz with SISO



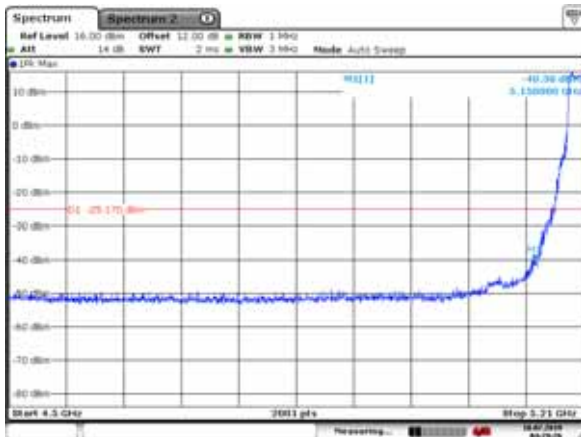
Date: 18. JUL. 2019 04:23:58

5180MHz with SISO



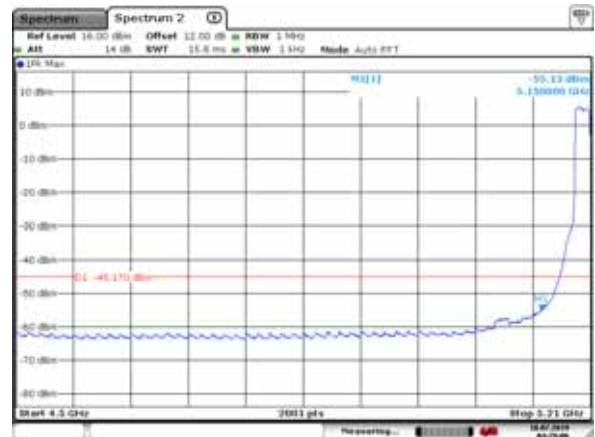
Date: 18. JUL. 2019 04:23:05

5200MHz with SISO



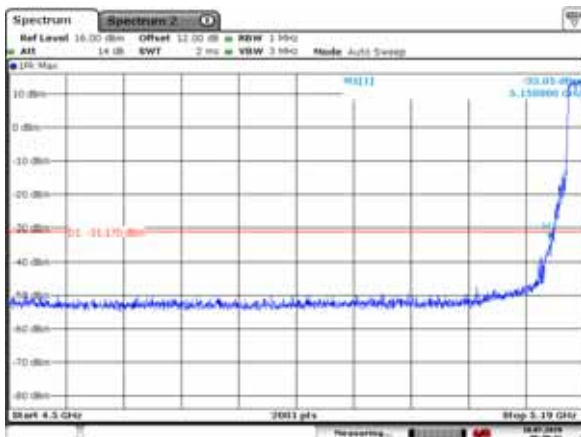
Date: 18. JUL. 2019 04:29:26

5200MHz with SISO



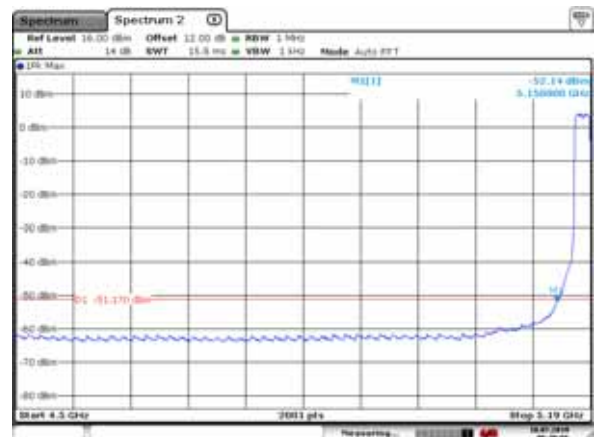
Date: 18. JUL. 2019 04:29:06

5180MHz with CDD



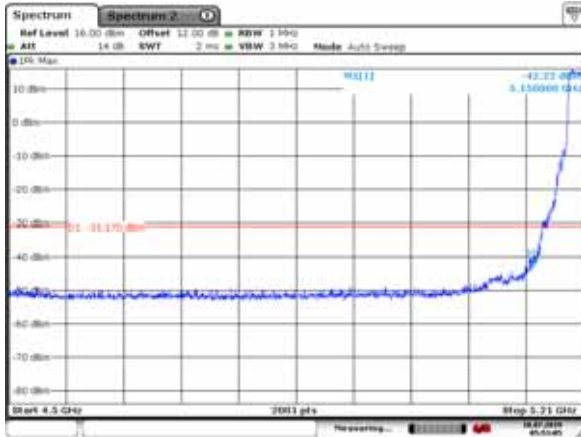
Date: 18. JUL. 2019 05:49:41

5180MHz with CDD



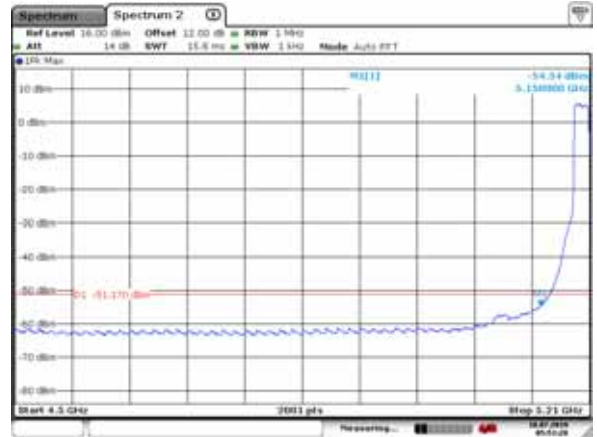
Date: 18. JUL. 2019 05:48:56

5200MHz with CDD



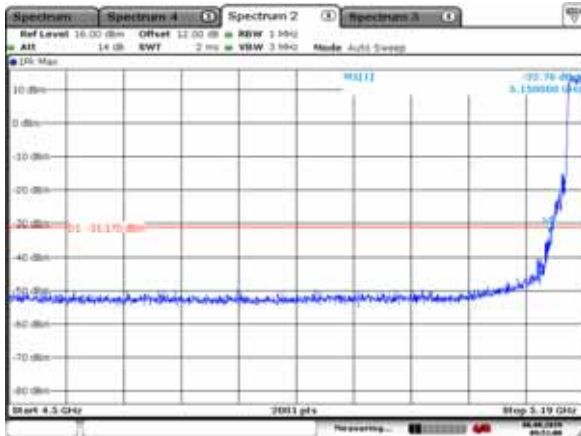
Date: 18. JUL. 2019 05:53:05

5200MHz with CDD



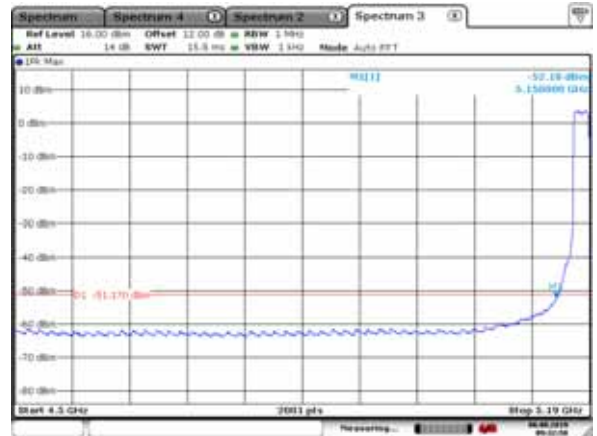
Date: 18. JUL. 2019 05:51:28

5180MHz with Beamforming



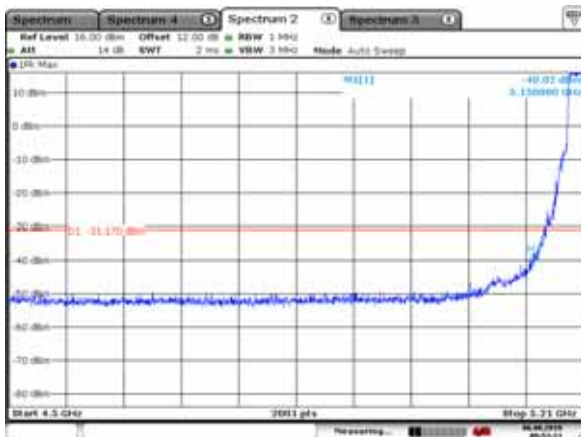
Date: 6. AUG. 2019 09:51:01

5180MHz with Beamforming



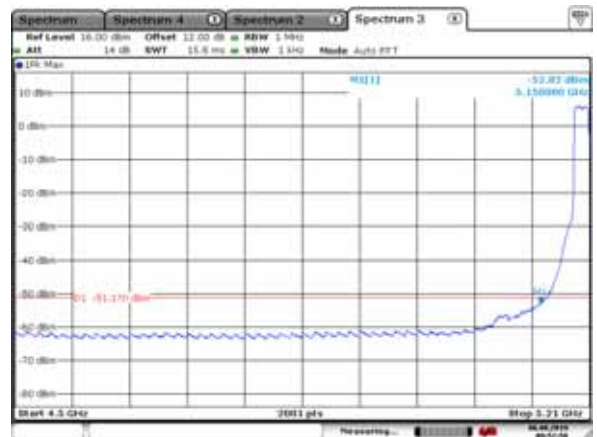
Date: 6. AUG. 2019 09:32:58

5200MHz with Beamforming



Date: 6. AUG. 2019 09:53:13

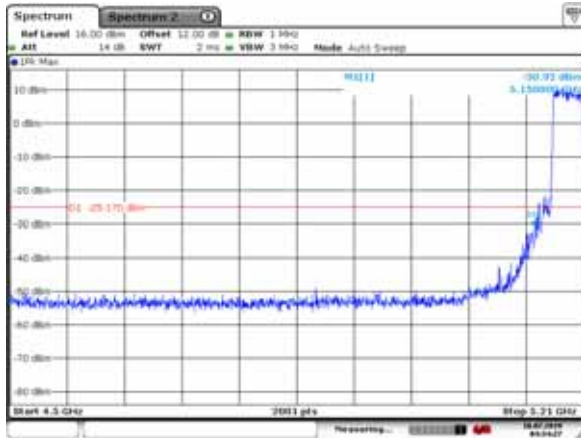
5200MHz with Beamforming



Date: 6. AUG. 2019 09:52:58

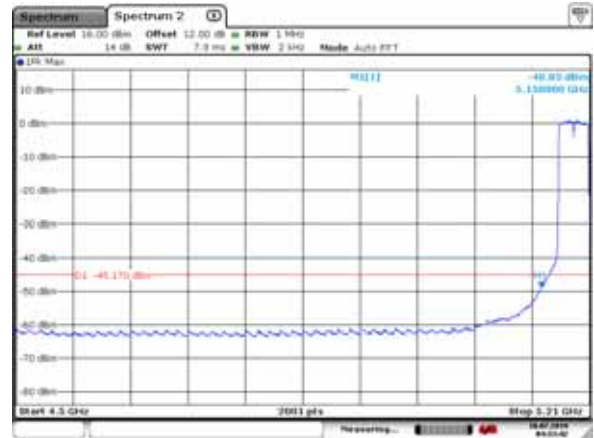
## 802.11n(40MHz)

5190MHz with SISO



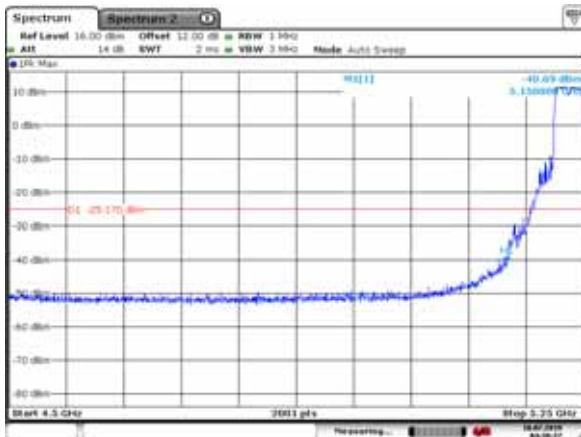
Date: 18. JUL. 2019 04:34:27

5190MHz with SISO



Date: 18. JUL. 2019 04:33:42

5230MHz with SISO



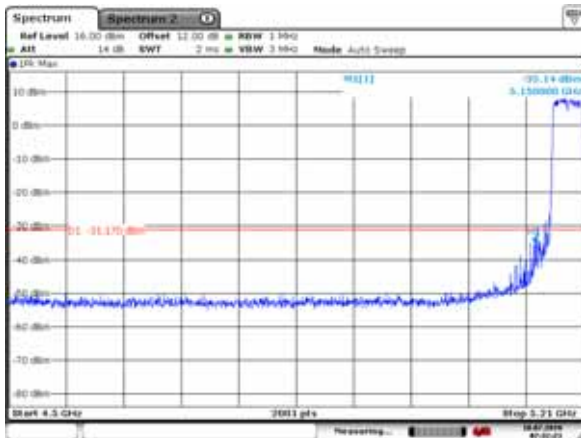
Date: 18. JUL. 2019 04:38:17

5230MHz with SISO



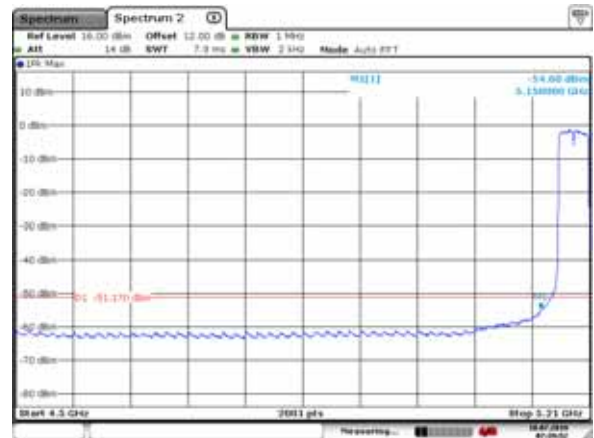
Date: 18. JUL. 2019 04:37:55

5190MHz with CDD



Date: 18. JUL. 2019 07:32:23

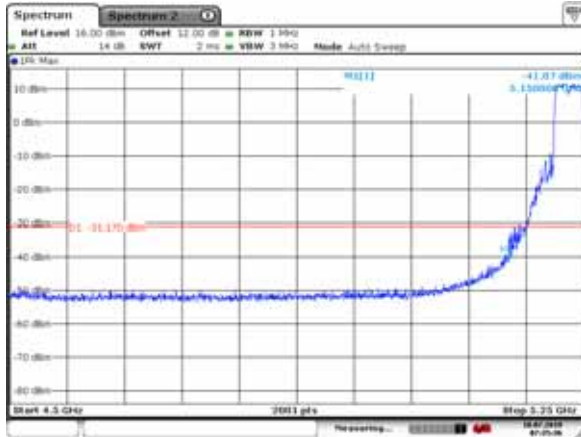
5190MHz with CDD



Date: 18. JUL. 2019 07:39:52



5230MHz with CDD



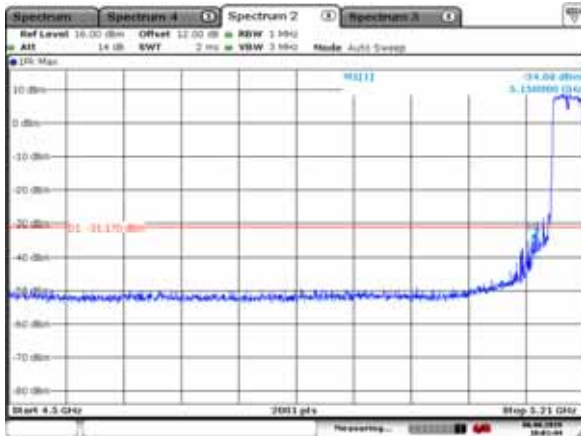
Date: 18. JUL. 2019 07:35:36

5230MHz with CDD



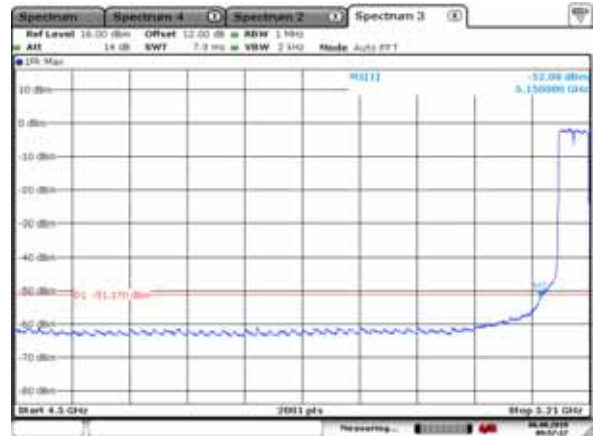
Date: 18. JUL. 2019 07:37:49

5190MHz with Beamforming



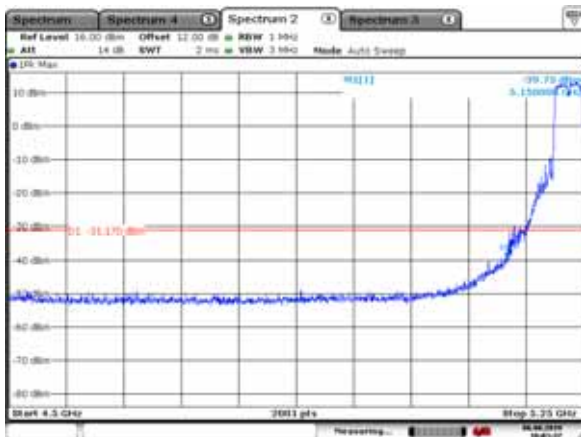
Date: 6. AUG. 2019 10:01:45

5190MHz with Beamforming



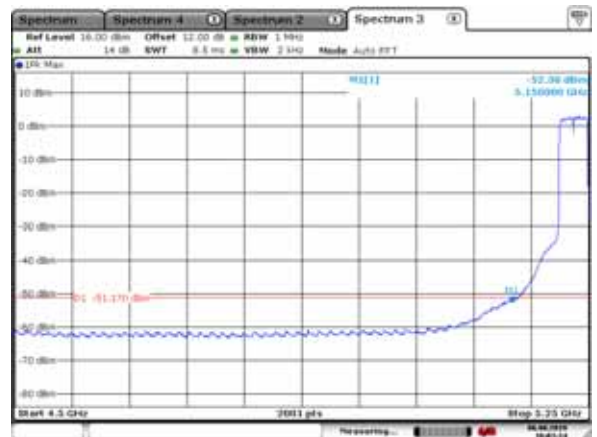
Date: 6. AUG. 2019 09:57:18

5230MHz with Beamforming



Date: 6. AUG. 2019 10:03:37

5230MHz with Beamforming

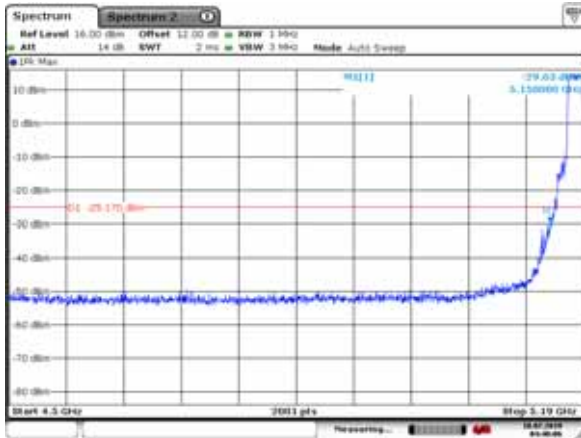


Date: 6. AUG. 2019 10:03:15

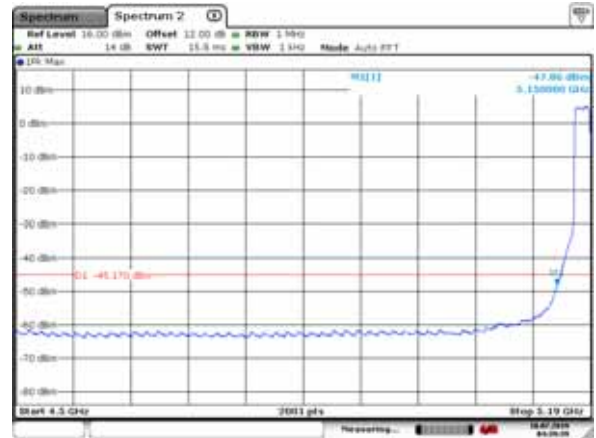


## 802.11ac(20MHz)

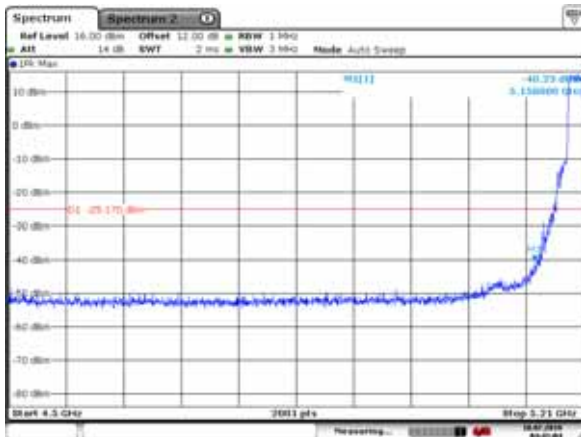
5180MHz with SISO



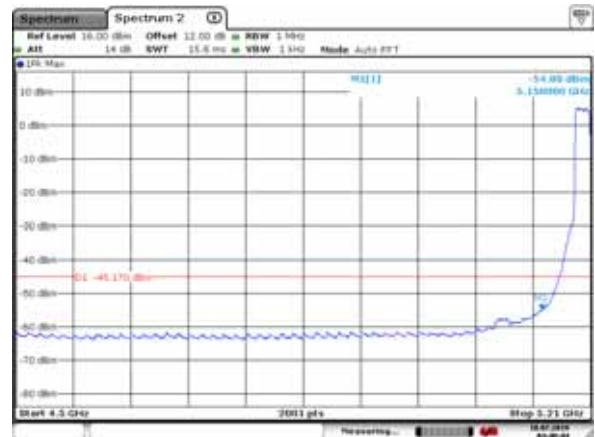
5180MHz with SISO



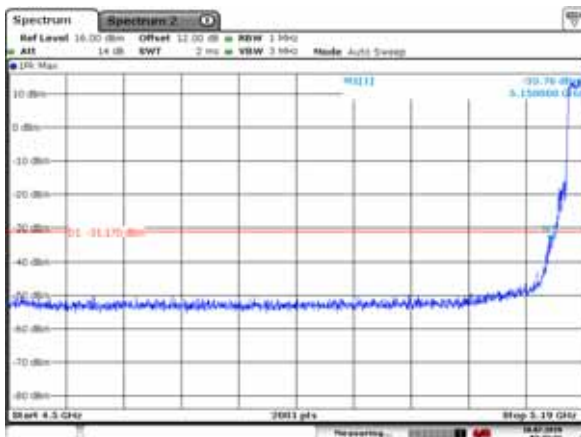
5200MHz with SISO



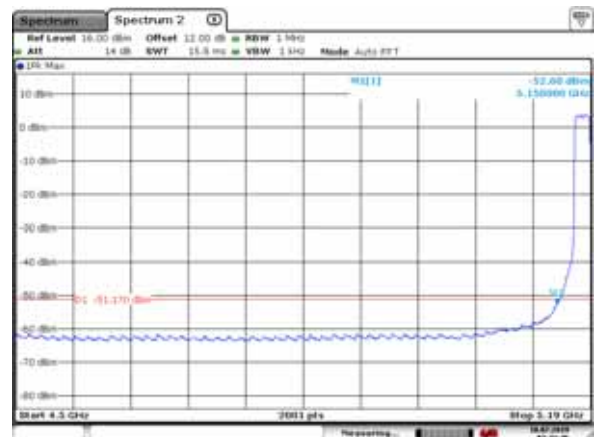
5200MHz with SISO



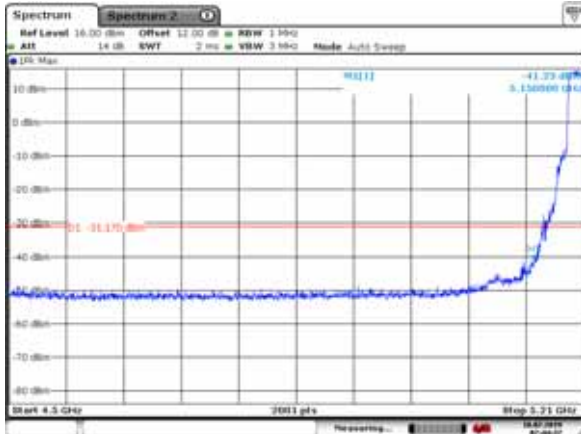
5180MHz with CDD



5180MHz with CDD

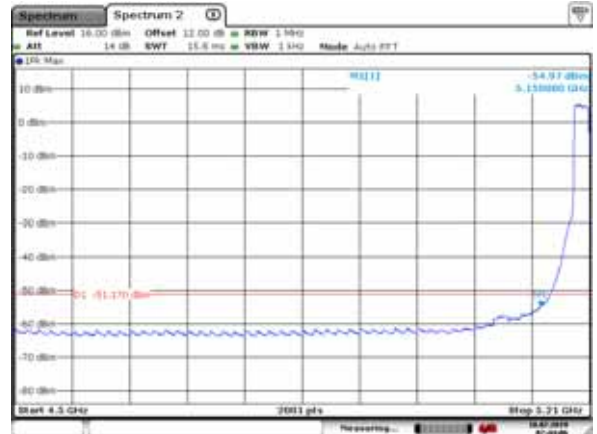


5200MHz with CDD



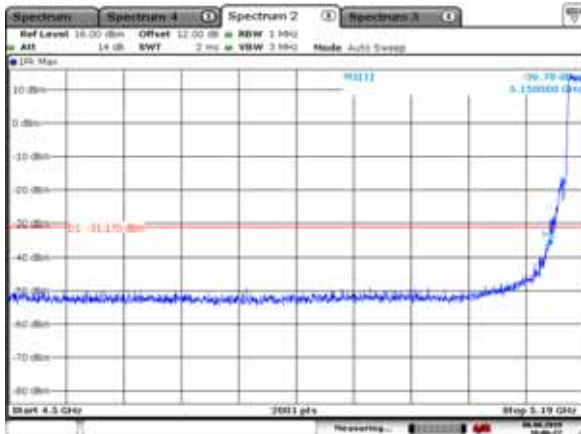
Date: 18. JUL. 2019 07:44:37

5200MHz with CDD



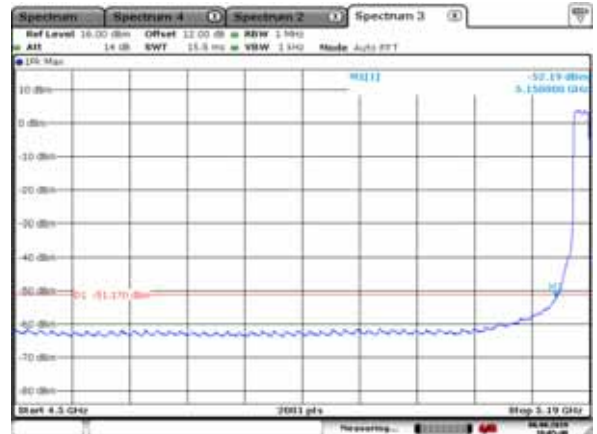
Date: 18. JUL. 2019 07:44:06

5180MHz with Beamforming



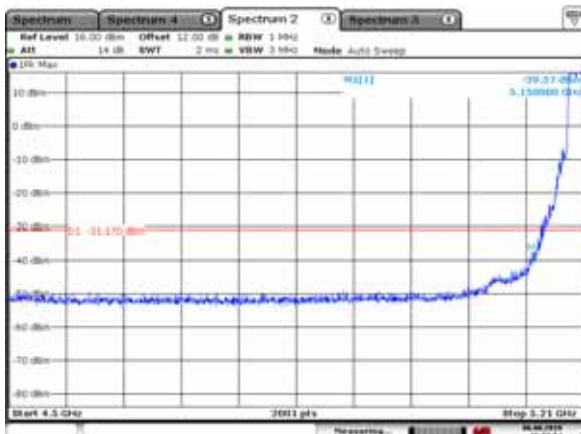
Date: 6. AUG. 2019 10:06:28

5180MHz with Beamforming



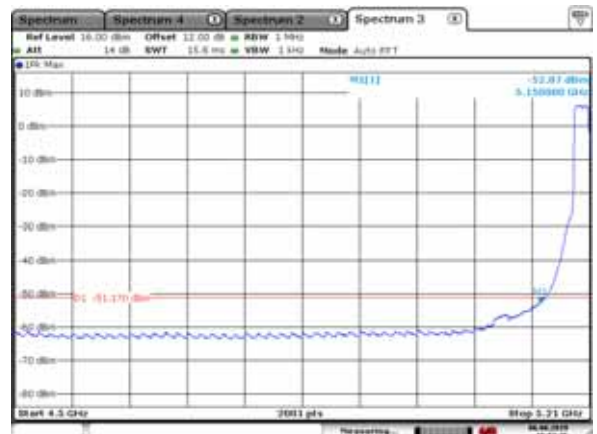
Date: 6. AUG. 2019 10:05:41

5200MHz with Beamforming



Date: 6. AUG. 2019 10:07:55

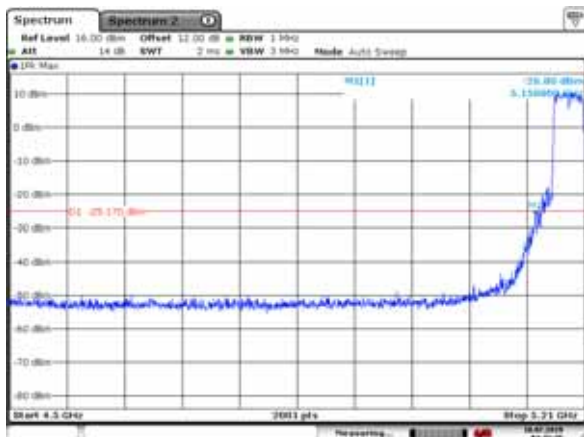
5200MHz with Beamforming



Date: 6. AUG. 2019 10:07:37

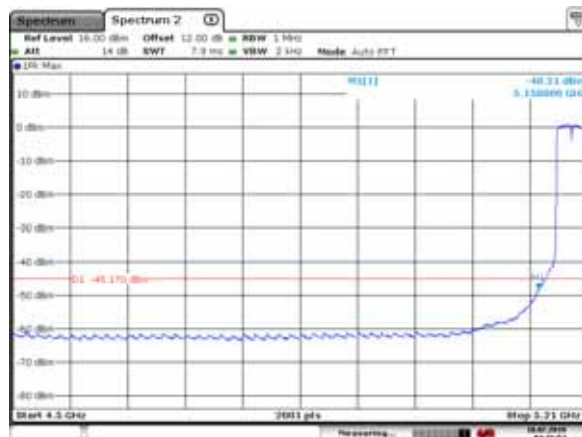
**802.11ac(40MHz)**

5190MHz with SISO



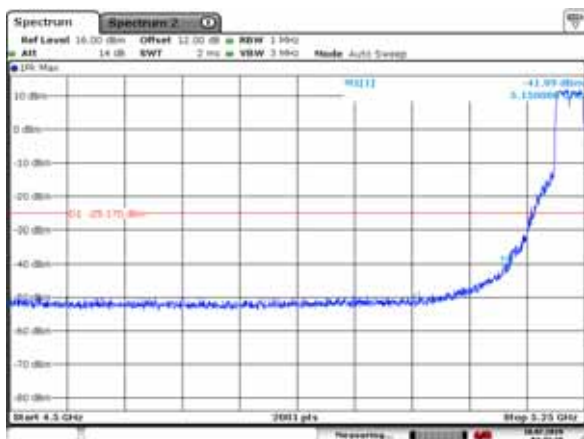
Date: 18. JUL.2019 04:42:25

5190MHz with SISO



Date: 18. JUL.2019 04:41:54

5230MHz with SISO



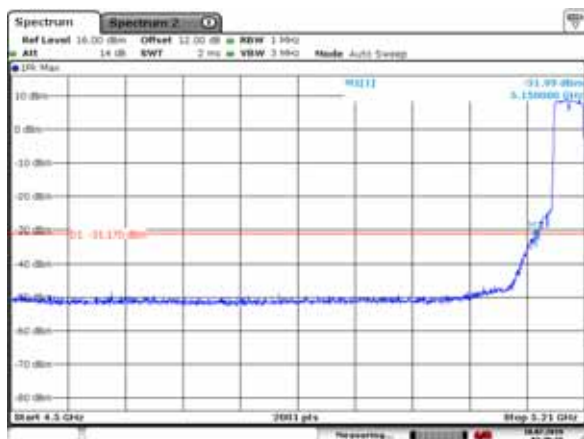
Date: 18. JUL.2019 04:43:19

5230MHz with SISO



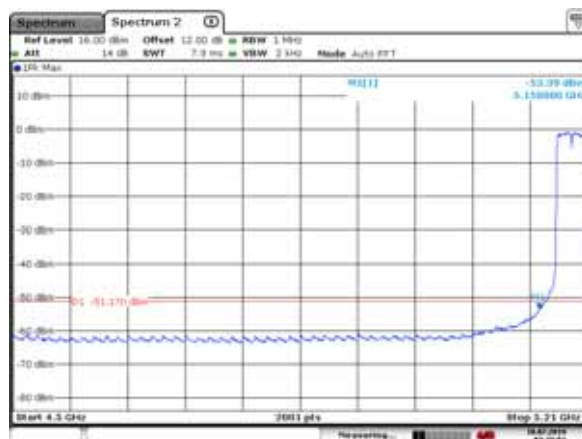
Date: 18. JUL.2019 04:43:02

5190MHz with CDD



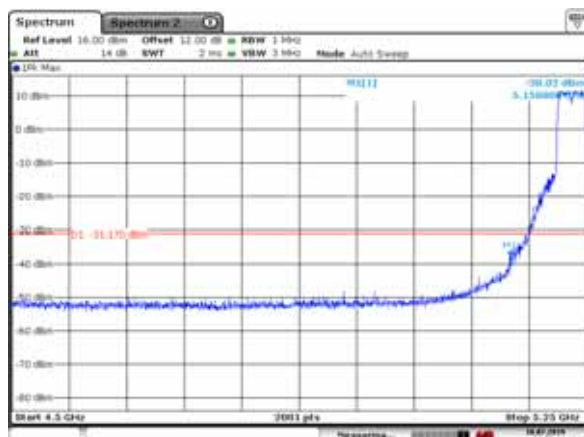
Date: 18. JUL.2019 07:49:18

5190MHz with CDD



Date: 18. JUL.2019 07:47:54

5230MHz with CDD



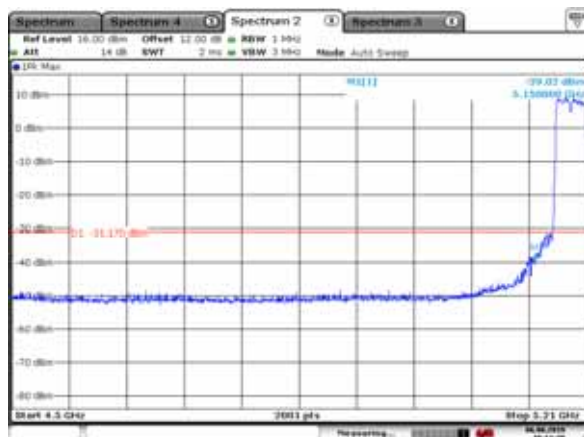
Date: 18. JUL. 2019 07:50:31

5230MHz with CDD



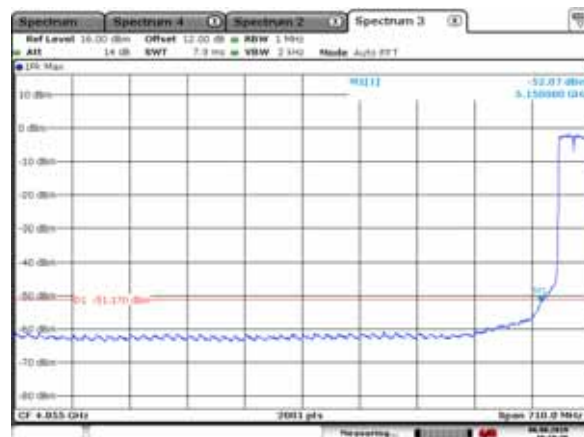
Date: 18. JUL. 2019 07:50:17

5190MHz with Beamforming



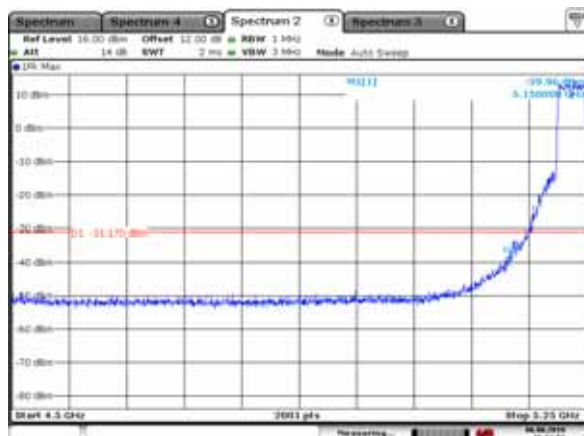
Date: 6. AUG. 2019 10:11:20

5190MHz with Beamforming



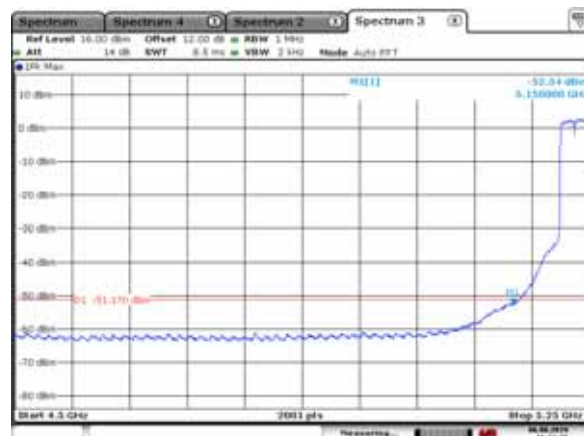
Date: 6. AUG. 2019 10:10:30

5230MHz with Beamforming



Date: 6. AUG. 2019 10:12:54

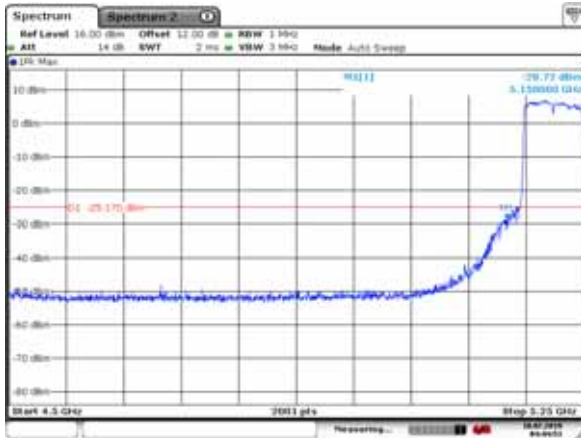
5230MHz with Beamforming



Date: 6. AUG. 2019 10:12:29

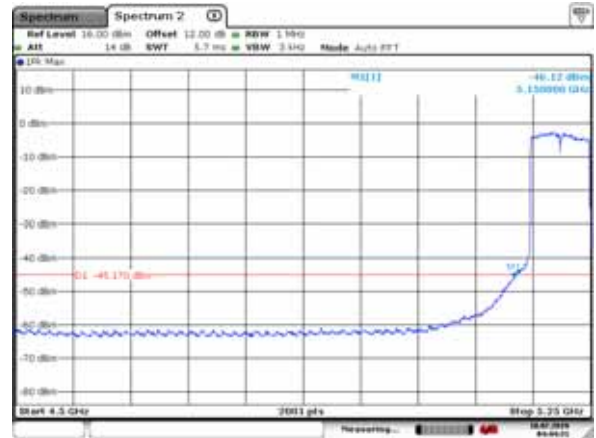
## 802.11ac(80MHz)

5210MHz with SISO



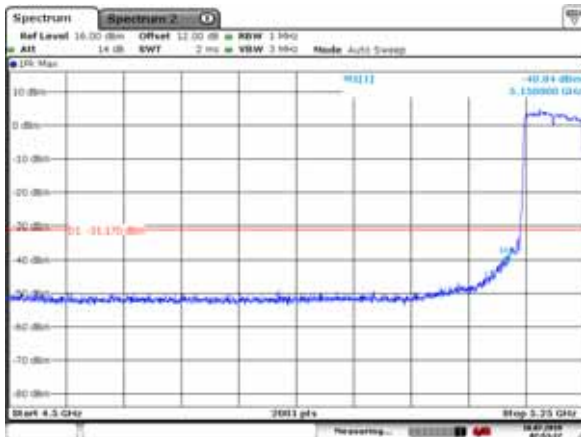
Date: 18. JUL. 2019 04:44:53

5210MHz with SISO



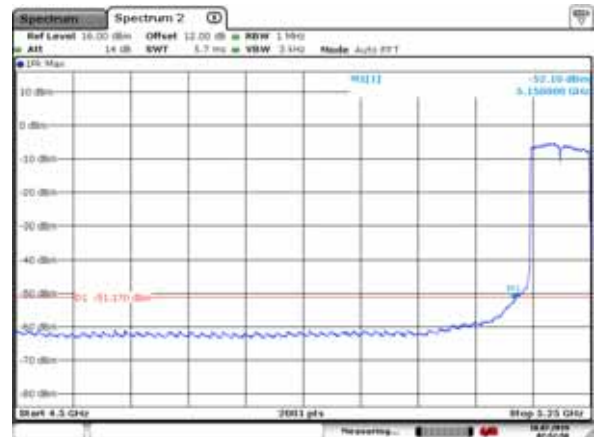
Date: 18. JUL. 2019 04:44:31

5210MHz with CDD



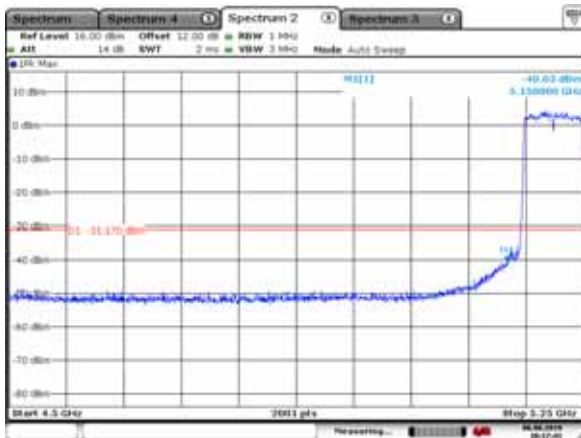
Date: 18. JUL. 2019 07:53:18

5210MHz with CDD



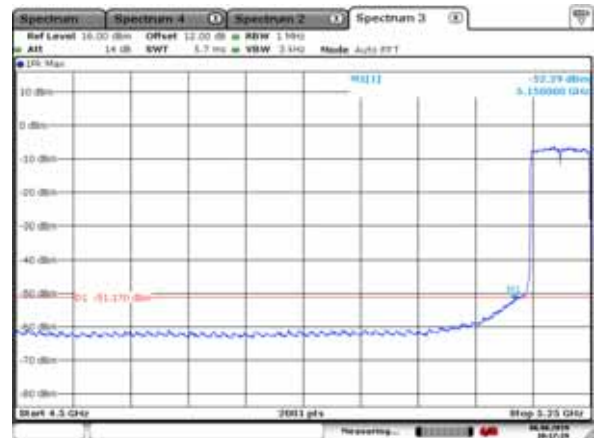
Date: 18. JUL. 2019 07:52:58

5210MHz with Beamforming



Date: 6. AUG. 2019 10:17:41

5210MHz with Beamforming

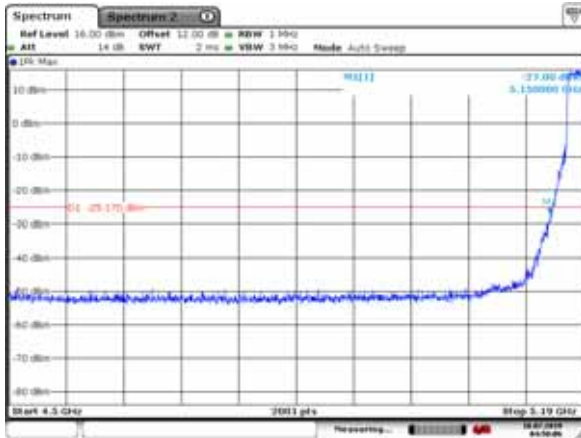


Date: 6. AUG. 2019 10:17:19



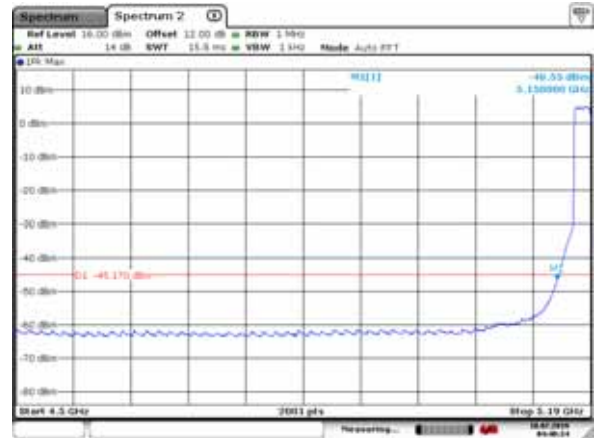
## 802.11ax(20MHz)

### 5180MHz with SISO



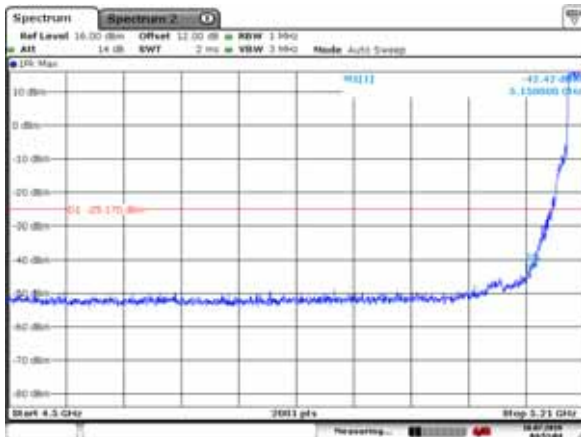
Date: 18. JUL.2019 04:50:06

### 5180MHz with SISO



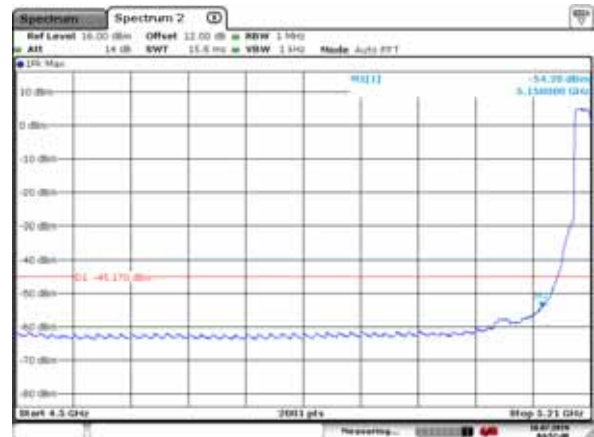
Date: 18. JUL.2019 04:48:14

### 5200MHz with SISO



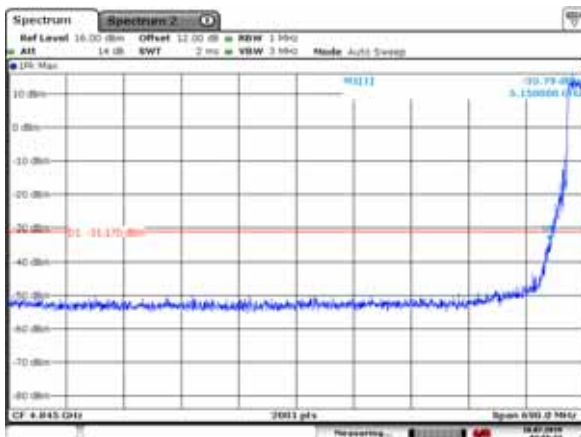
Date: 18. JUL.2019 04:53:04

### 5200MHz with SISO



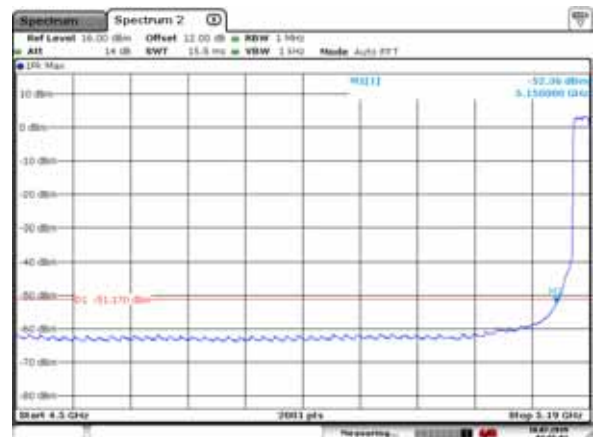
Date: 18. JUL.2019 04:52:48

### 5180MHz with CDD



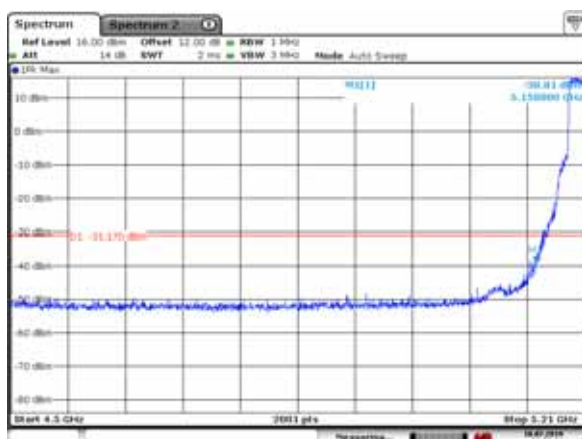
Date: 18. JUL.2019 07:55:38

### 5180MHz with CDD



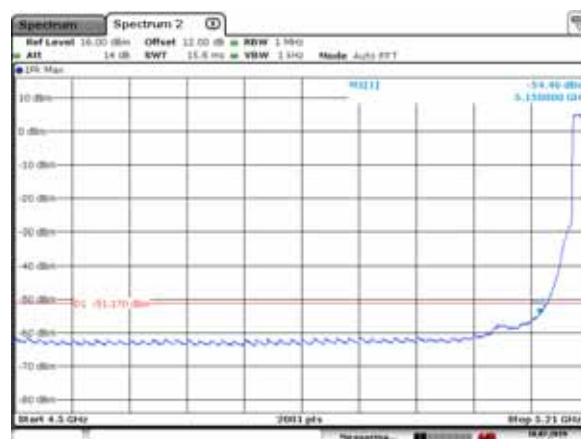
Date: 18. JUL.2019 07:55:03

5200MHz with CDD



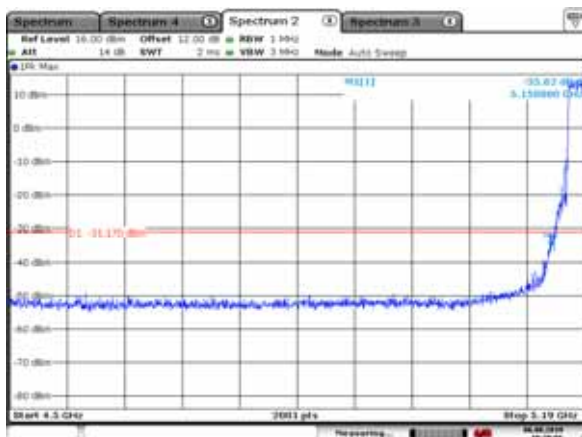
Date: 18.JUL.2019 07:57:00

5200MHz with CDD



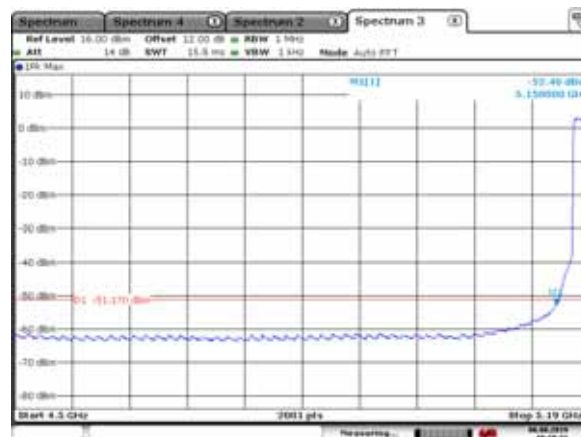
Date: 18.JUL.2019 07:56:38

5180MHz with Beamforming



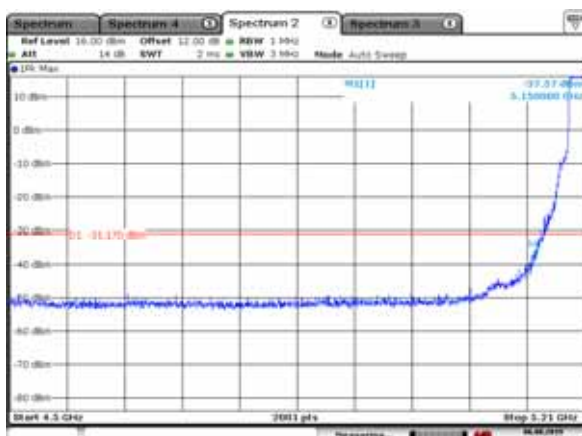
Date: 6.AUG.2019 10:20:57

5180MHz with Beamforming



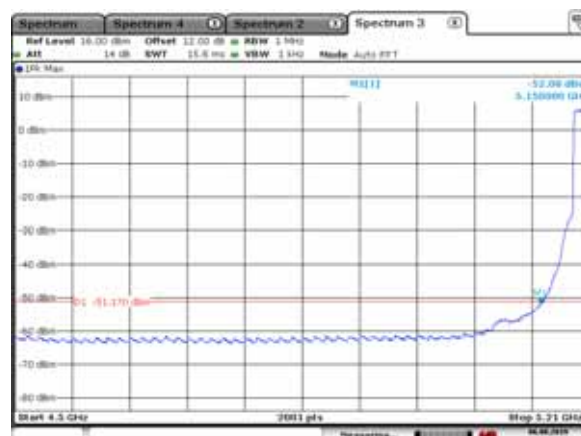
Date: 6.AUG.2019 10:19:32

5200MHz with Beamforming



Date: 6.AUG.2019 10:21:58

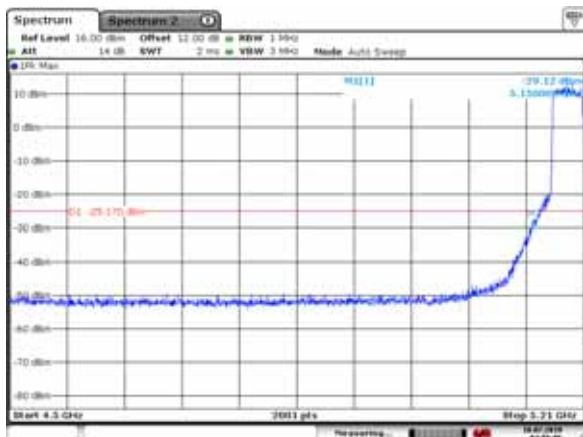
5200MHz with Beamforming



Date: 6.AUG.2019 10:21:40

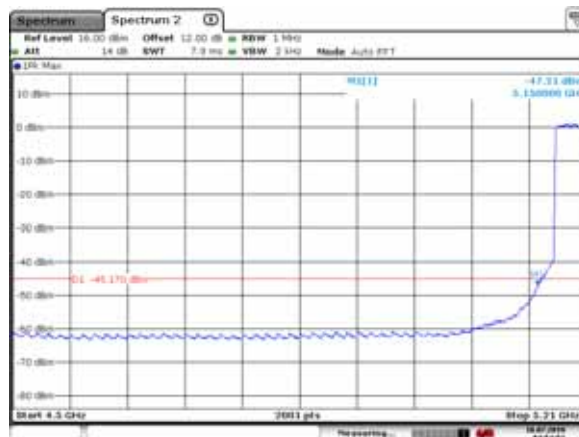
**802.11ax(40MHz)**

5190MHz with SISO



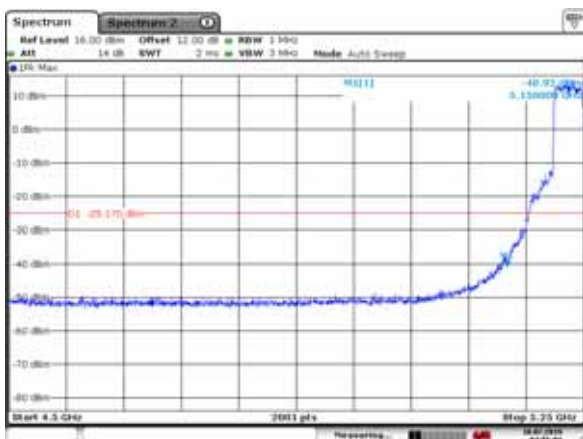
Date: 18. JUL.2019 04:55:06

5190MHz with SISO



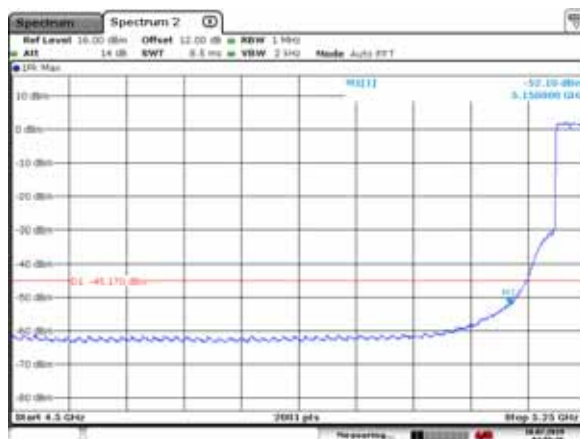
Date: 18. JUL.2019 04:54:53

5230MHz with SISO



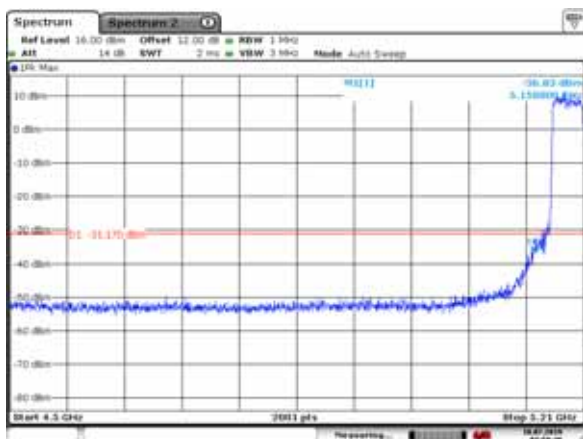
Date: 18. JUL.2019 04:56:03

5230MHz with SISO



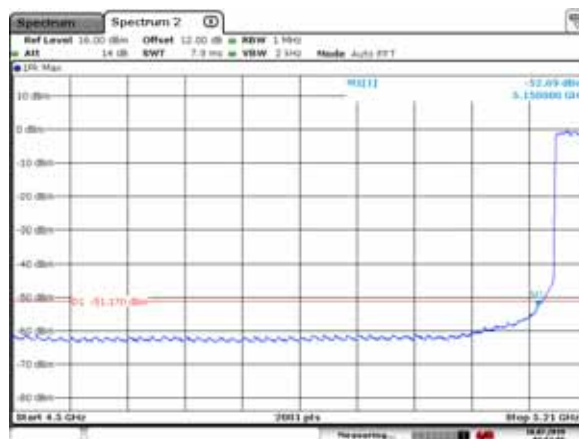
Date: 18. JUL.2019 04:55:36

5190MHz with CDD



Date: 18. JUL.2019 07:58:48

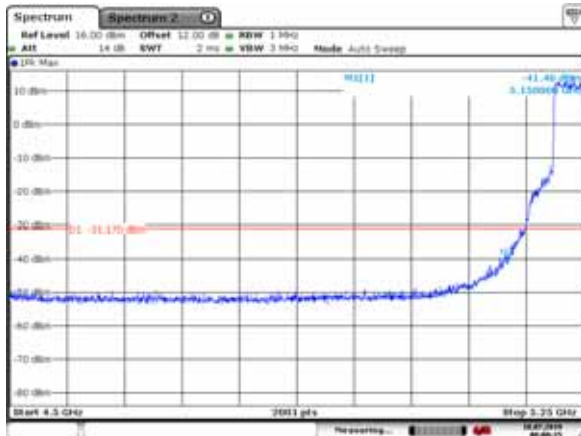
5190MHz with CDD



Date: 18. JUL.2019 07:57:55

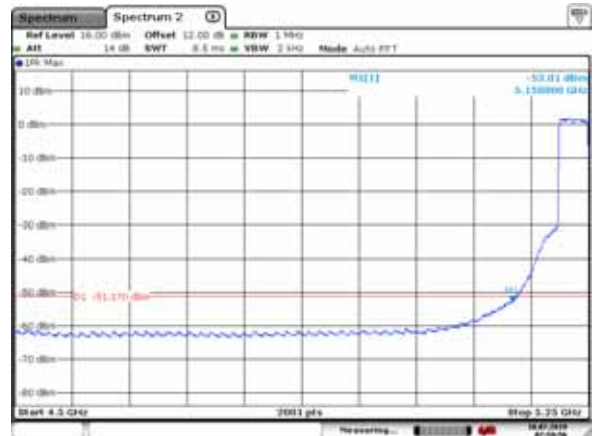


5230MHz with CDD



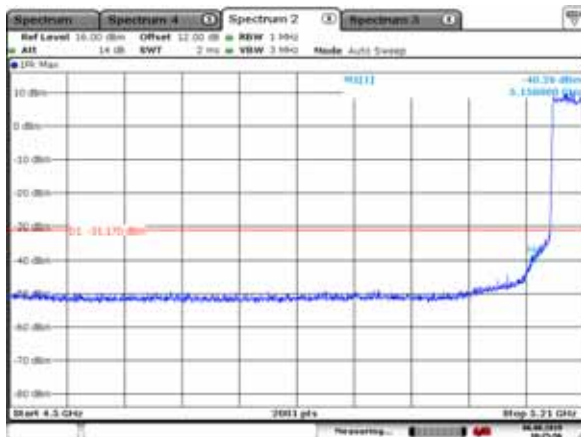
Date: 18. JUL. 2019 08:00:15

5230MHz with CDD



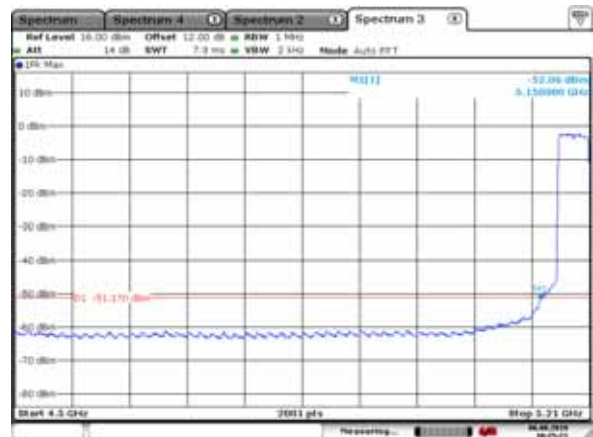
Date: 18. JUL. 2019 07:59:56

5190MHz with Beamforming



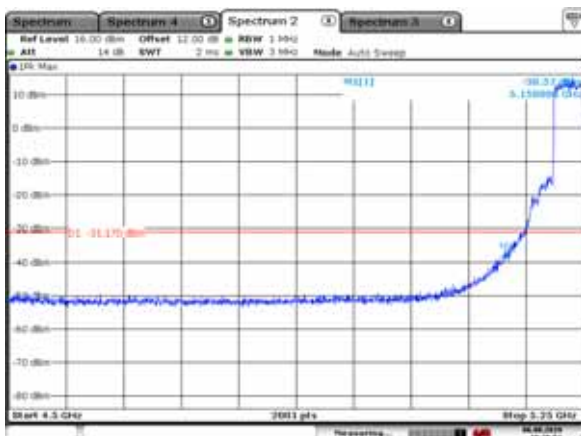
Date: 6. AUG. 2019 10:25:57

5190MHz with Beamforming



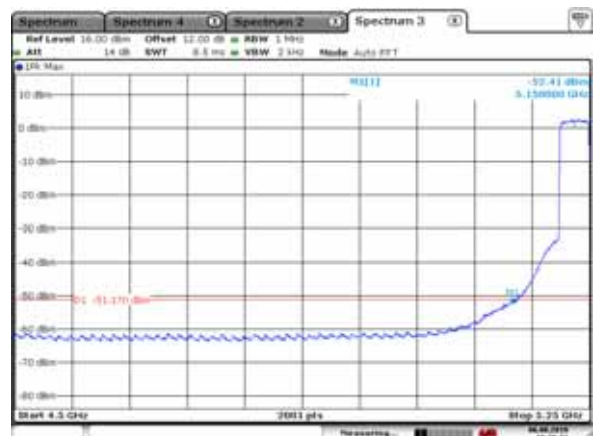
Date: 6. AUG. 2019 10:25:21

5230MHz with Beamforming



Date: 6. AUG. 2019 10:28:52

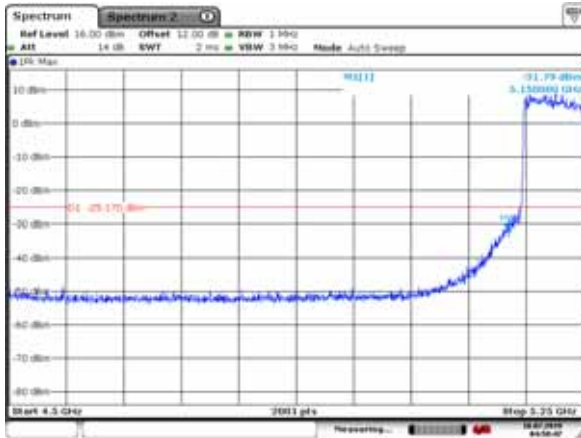
5230MHz with Beamforming



Date: 6. AUG. 2019 10:28:33

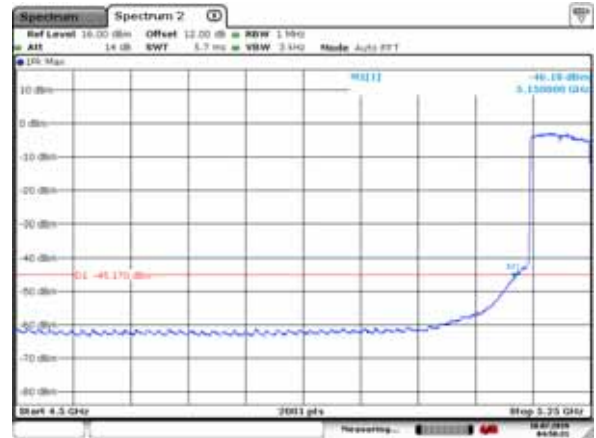
## 802.11ax(80MHz)

5210MHz with SISO



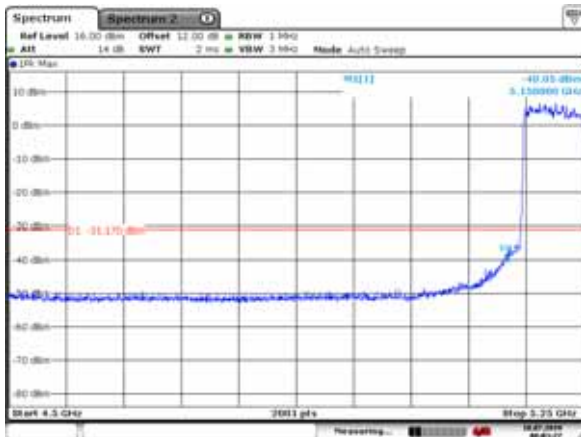
Date: 18. JUL. 2019 04:58:47

5210MHz with SISO



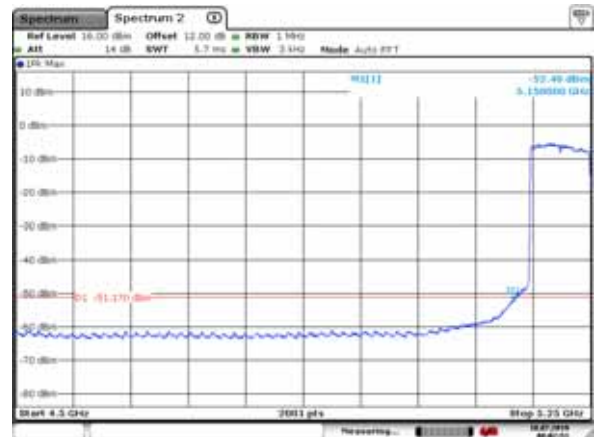
Date: 18. JUL. 2019 04:58:31

5210MHz with CDD



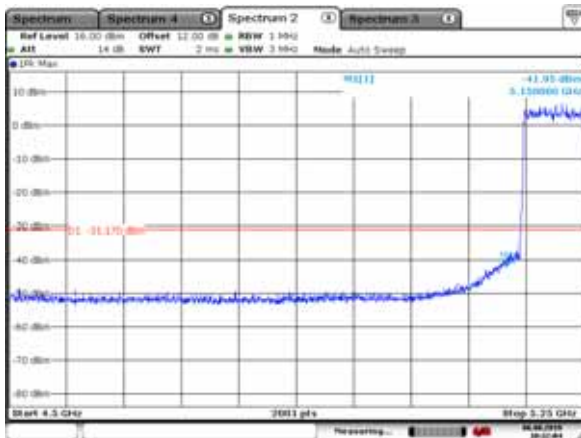
Date: 18. JUL. 2019 08:03:28

5210MHz with CDD



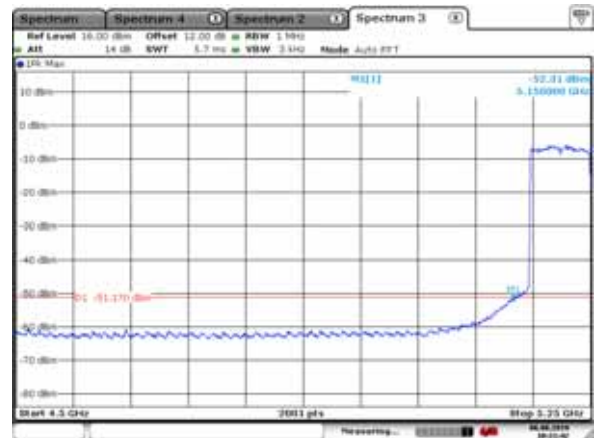
Date: 18. JUL. 2019 08:02:51

5210MHz with Beamforming



Date: 6. AUG. 2019 10:32:04

5210MHz with Beamforming

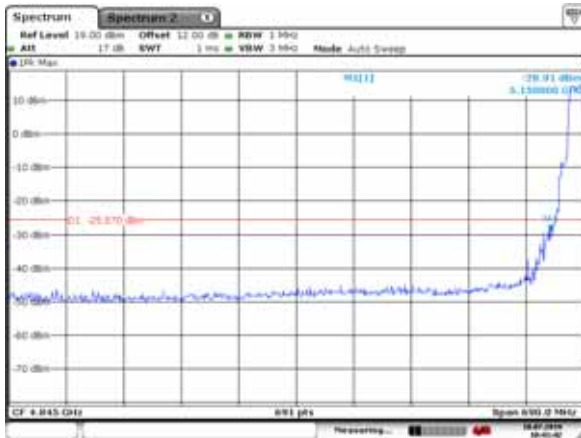


Date: 6. AUG. 2019 10:31:43

## Eth2:

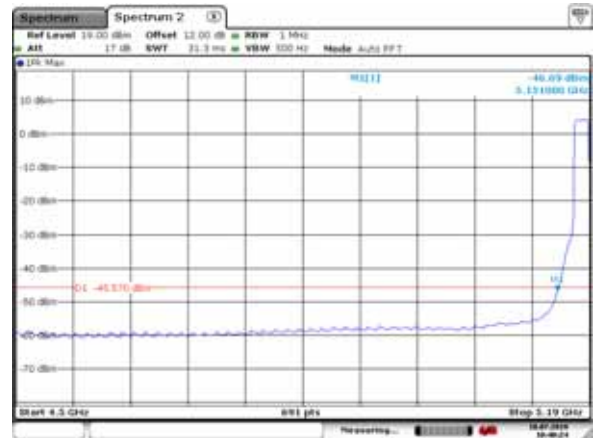
### 802.11a

#### 5180MHz with SISO



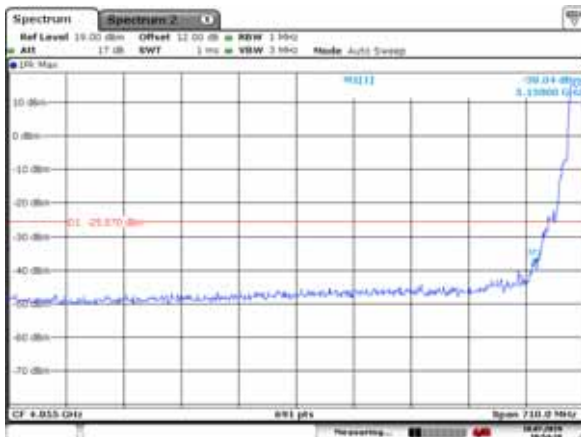
Date: 10. JUL. 2019 10:41:42

#### 5180MHz with SISO



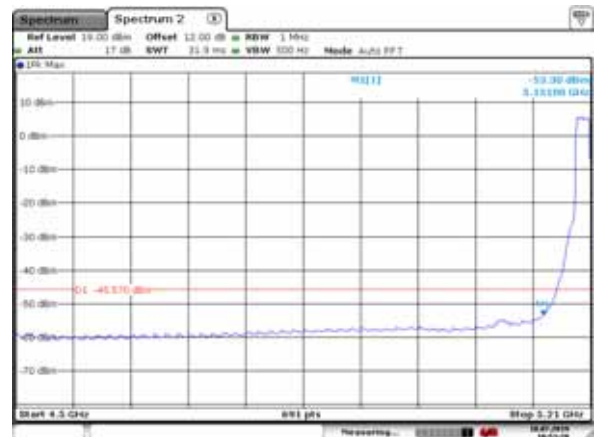
Date: 10. JUL. 2019 10:40:24

#### 5200MHz with SISO



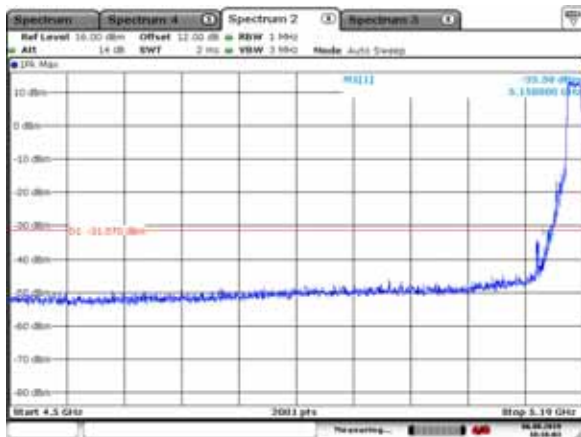
Date: 10. JUL. 2019 10:54:18

#### 5200MHz with SISO



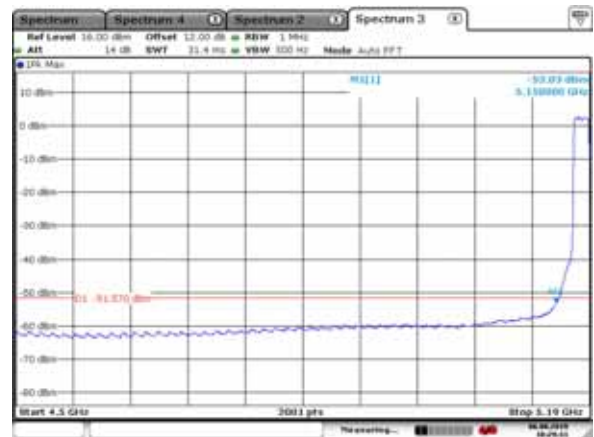
Date: 10. JUL. 2019 10:53:29

#### 5180MHz with CDD



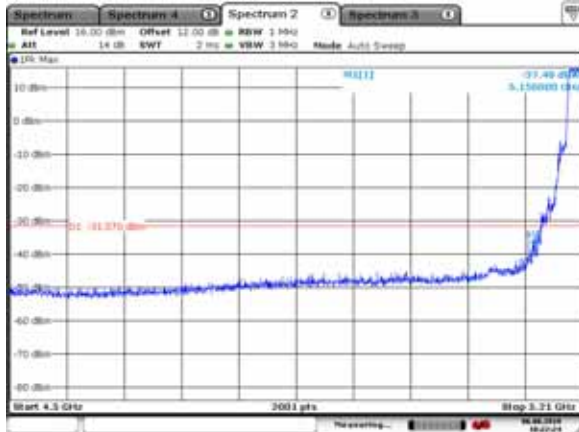
Date: 6. JUL. 2019 10:18:00

#### 5180MHz with CDD



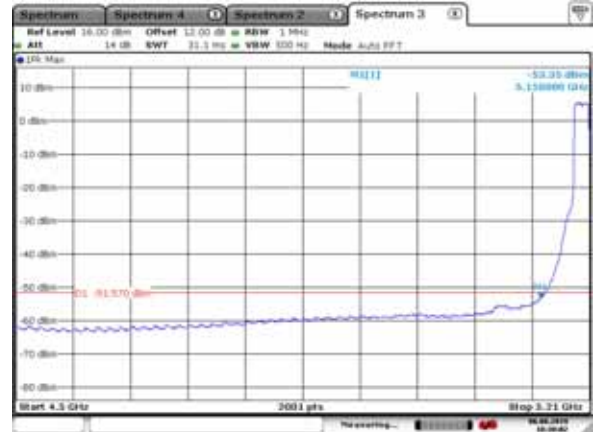
Date: 6. JUL. 2019 10:07:11

5200MHz with CDD



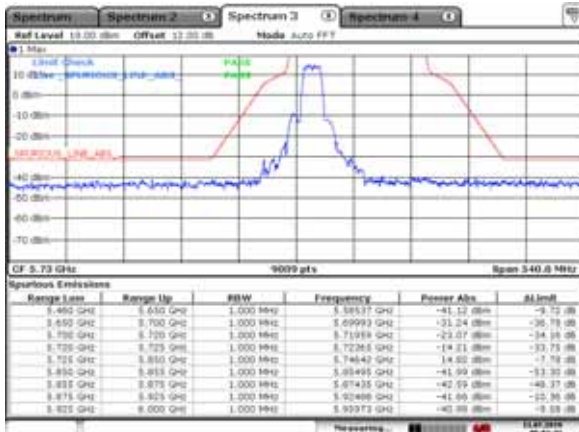
Date: 6.2019.2019 10:00:00

5200MHz with CDD



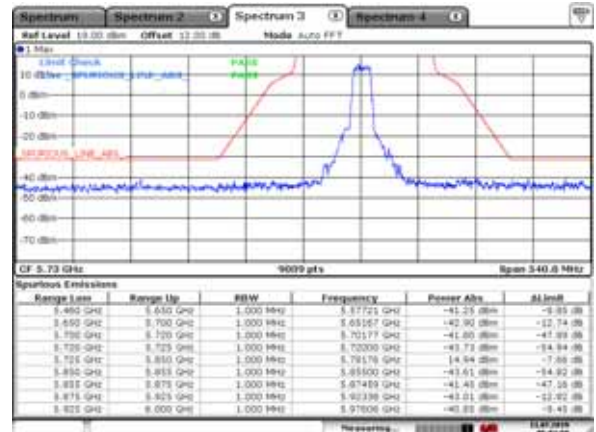
Date: 6.2019.2019 10:00:00

5745MHz with SISO



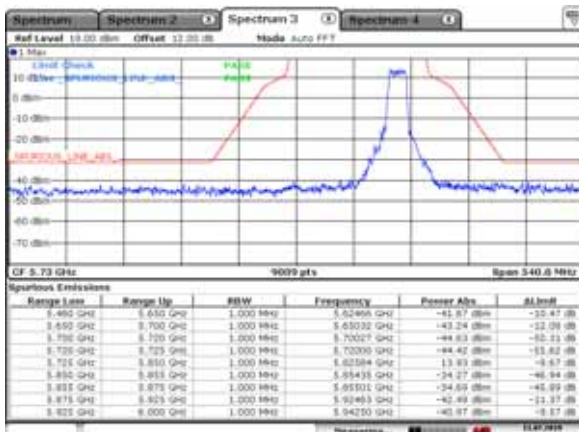
Date: 11. JUL. 2019 05:01:43

5785MHz with SISO



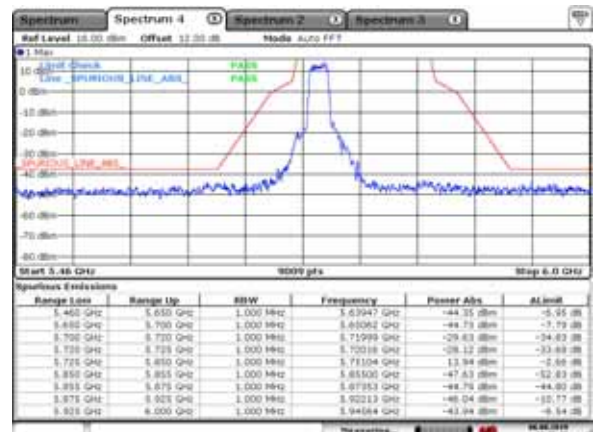
Date: 11. JUL. 2019 05:03:51

5825MHz with SISO



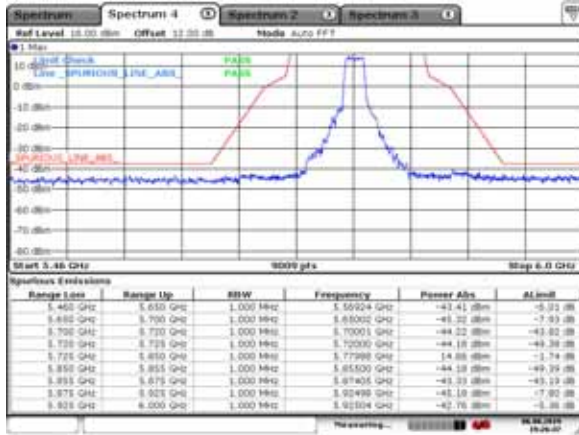
Date: 11. JUL. 2019 05:04:56

5745MHz with CDD



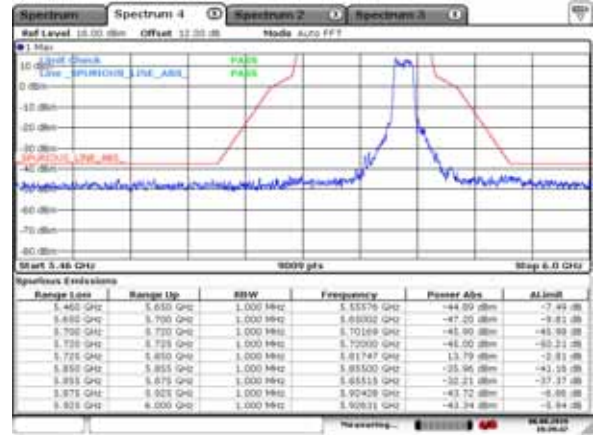
Date: 6.2019.2019 10:00:00

5785MHz with CDD



Date: 6.2023 13:08:37

5825MHz with CDD

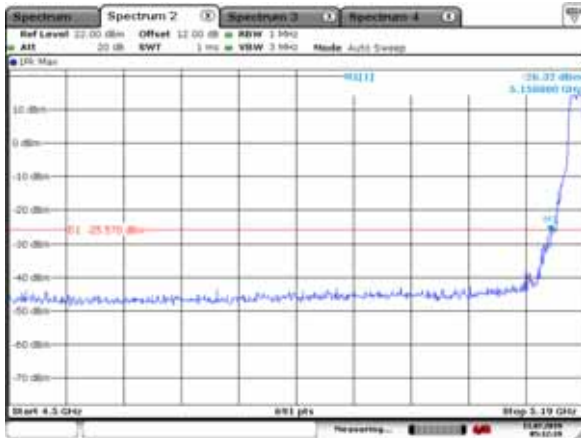


Date: 6.2023 13:08:37

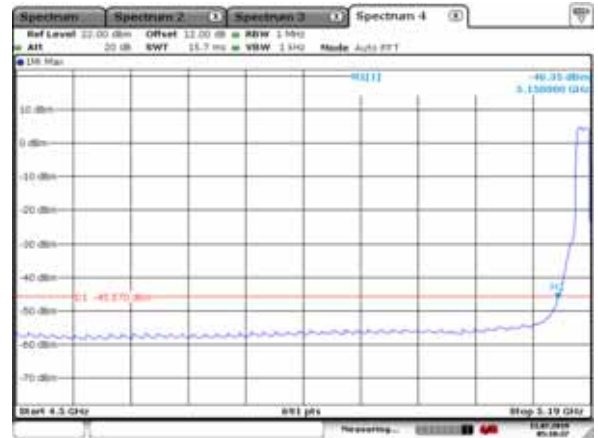


## 802.11n(20MHz)

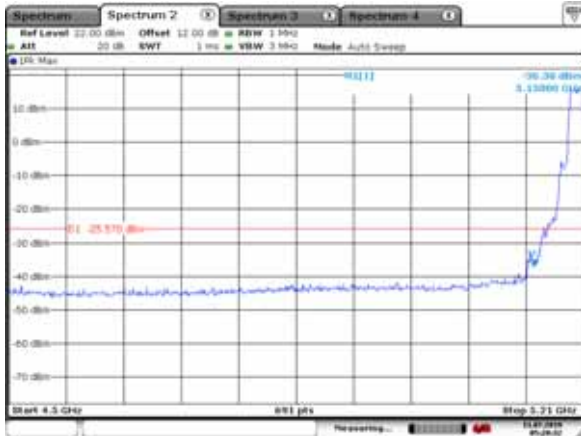
### 5180MHz with SISO



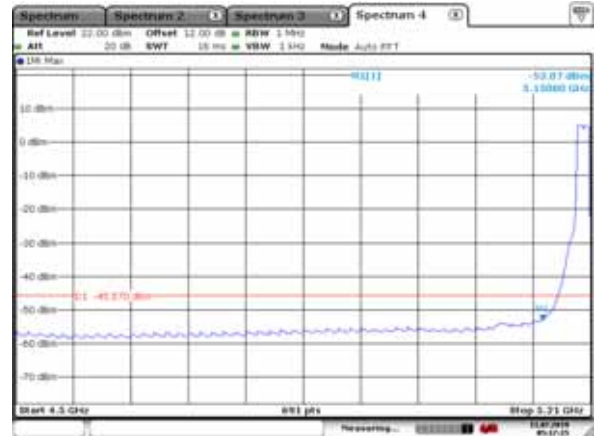
### 5180MHz with SISO



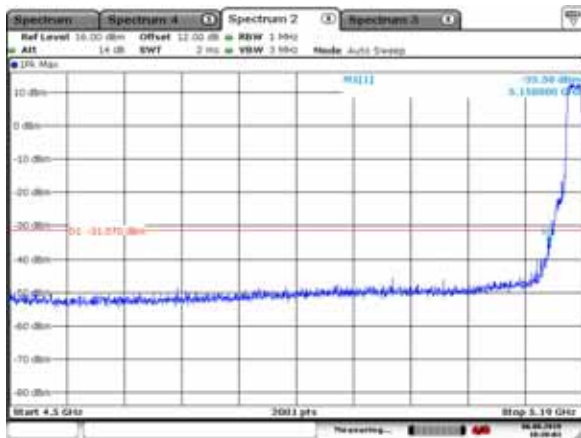
### 5200MHz with SISO



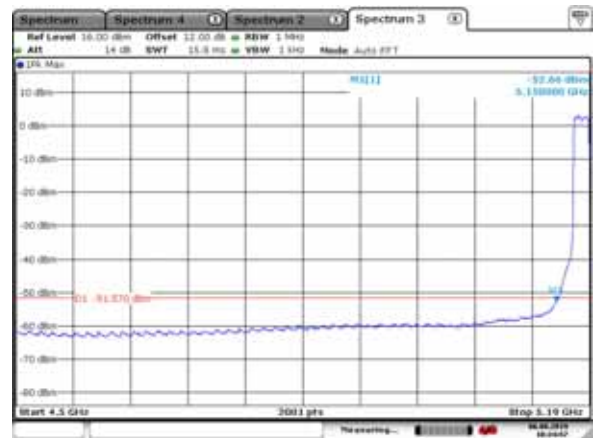
### 5200MHz with SISO



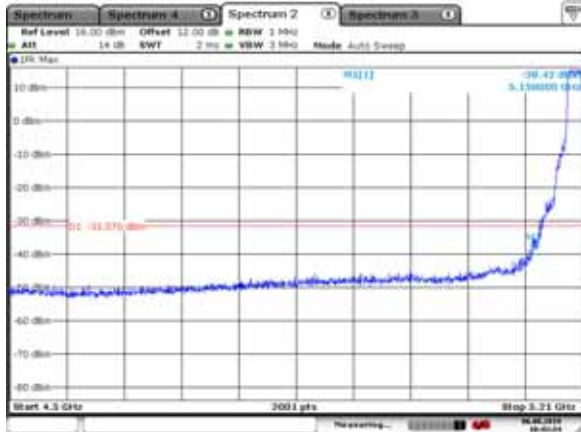
### 5180MHz with CDD



### 5180MHz with CDD

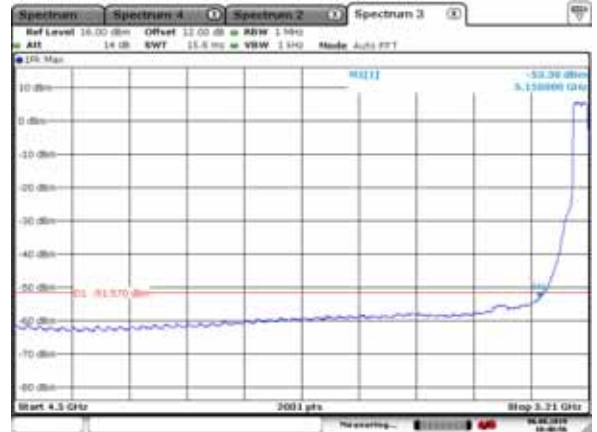


5200MHz with CDD



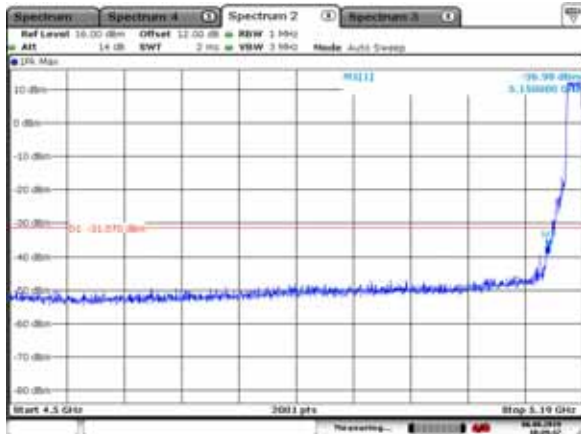
Date: 6/20/2023 10:41:16

5200MHz with CDD



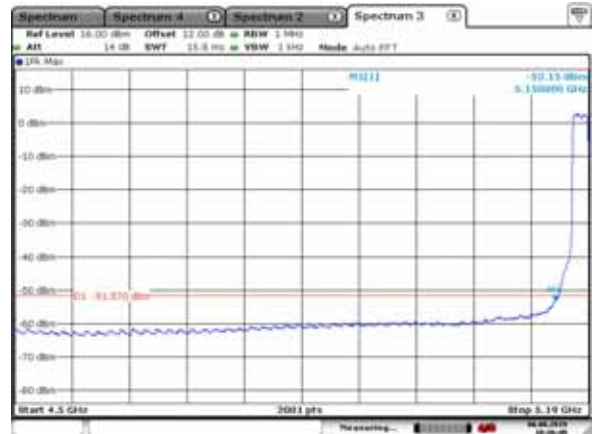
Date: 6/20/2023 10:41:16

5180MHz with Beamforming



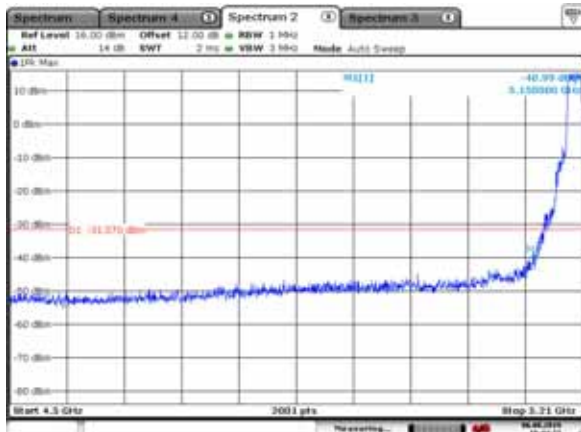
Date: 6/20/2023 10:41:17

5180MHz with Beamforming



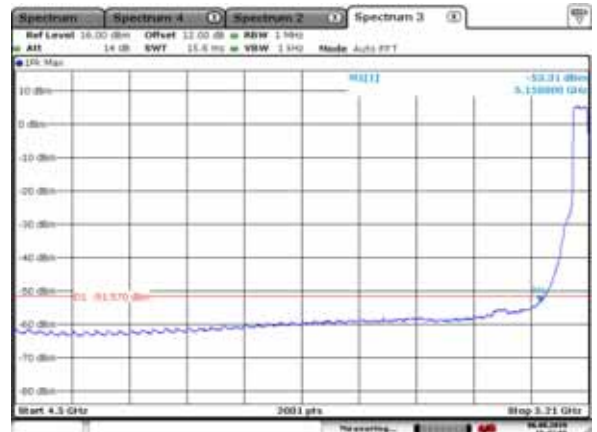
Date: 6/20/2023 10:41:16

5200MHz with Beamforming



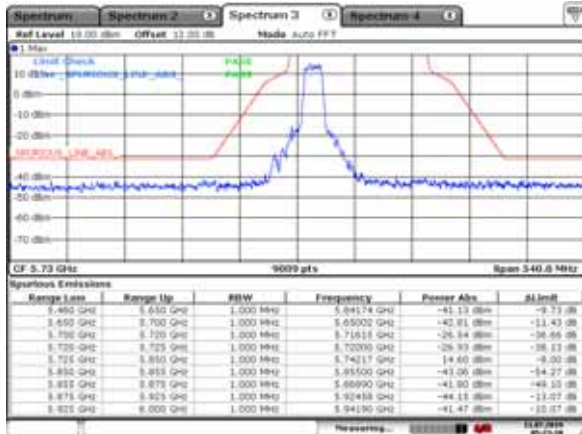
Date: 6/20/2023 10:41:17

5200MHz with Beamforming



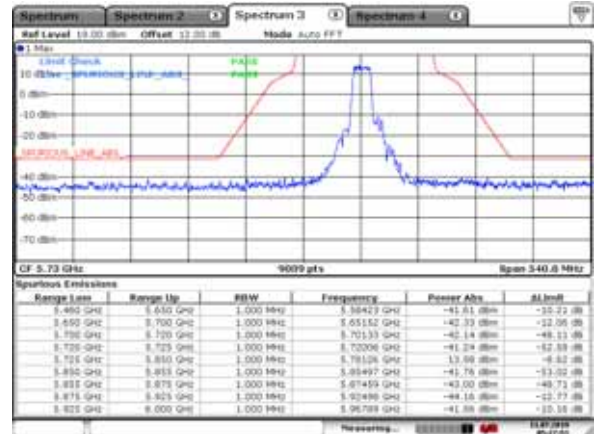
Date: 6/20/2023 10:41:16

5745MHz with SISO



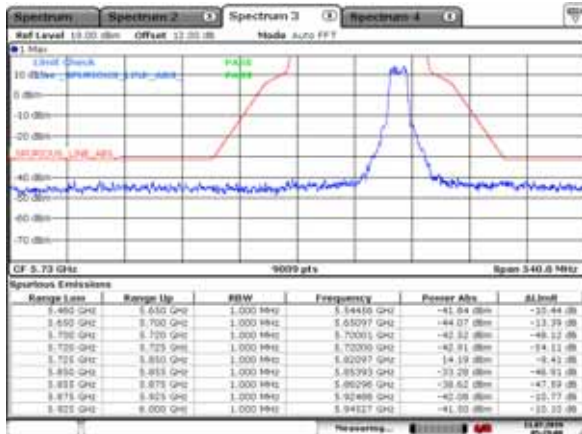
Date: 11. JUL. 2019 05:23:09

5785MHz with SISO



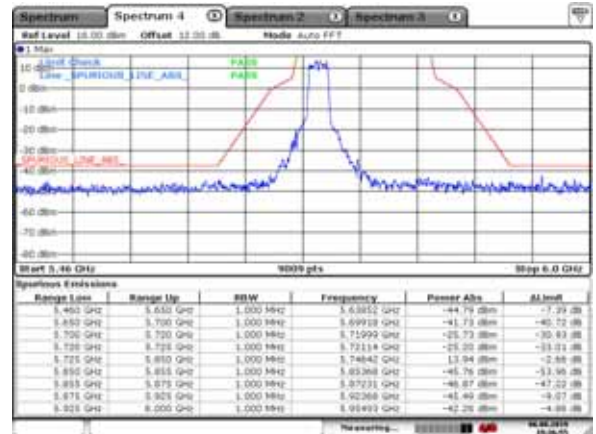
Date: 11. JUL. 2019 05:27:51

5825MHz with SISO



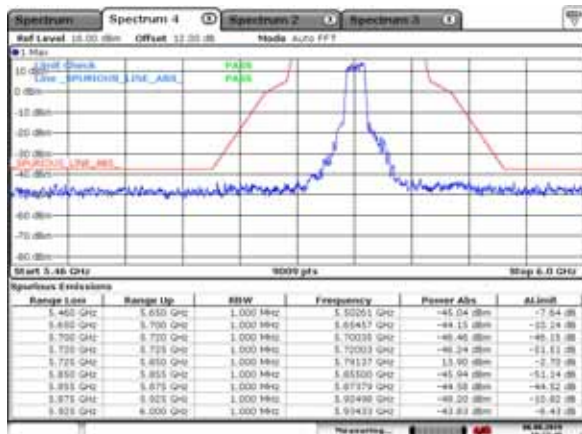
Date: 11. JUL. 2019 05:29:08

5745MHz with CDD



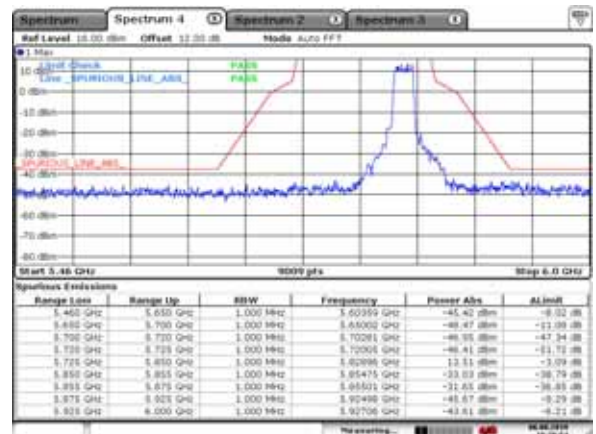
Date: 6. JUN. 2023 19:18:00

5785MHz with CDD



Date: 6. JUN. 2023 19:27:09

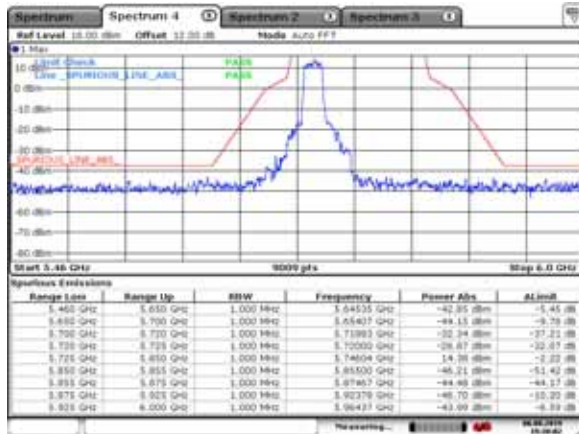
5825MHz with CDD



Date: 6. JUN. 2023 19:29:56

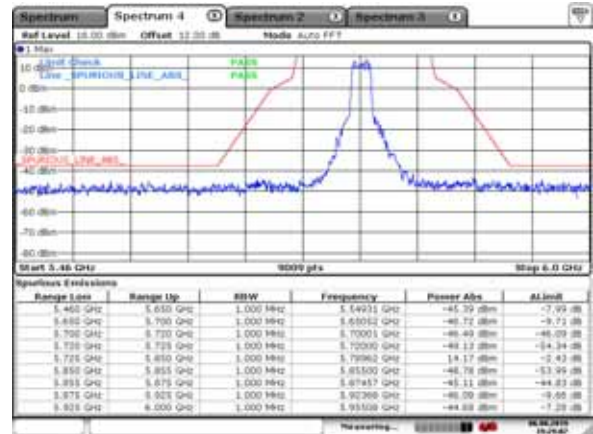


### 5745MHz with Beamforming



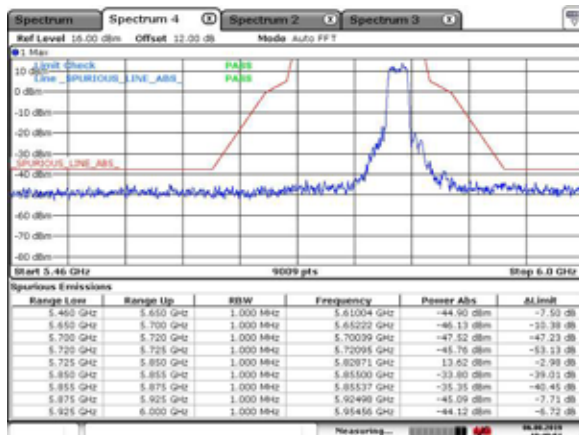
Date: 6.AUG.2019 19:29:12

### 5785MHz with Beamforming



Date: 6.AUG.2019 19:29:17

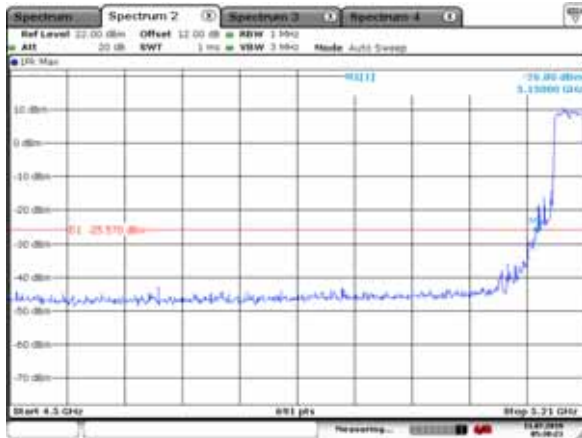
### 5825MHz with Beamforming



Date: 6.AUG.2019 19:40:51

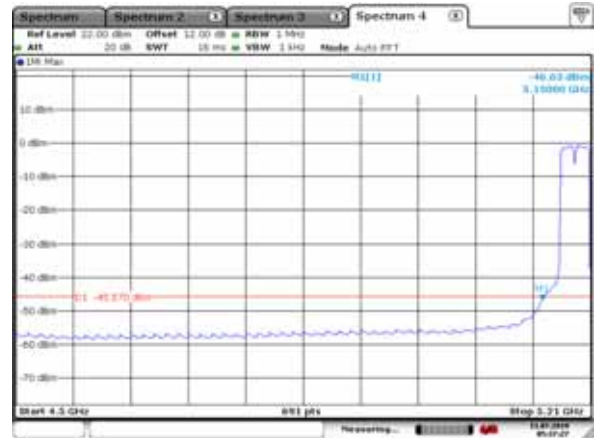
## 802.11n(40MHz)

### 5190MHz with SISO



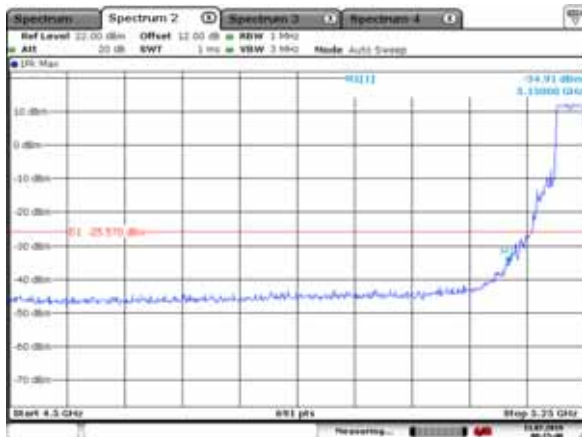
Date: 11. JUL. 2019 05:38:23

### 5190MHz with SISO



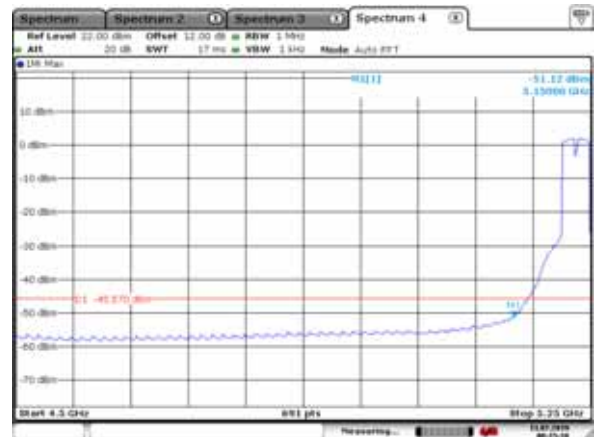
Date: 11. JUL. 2019 05:37:27

### 5230MHz with SISO



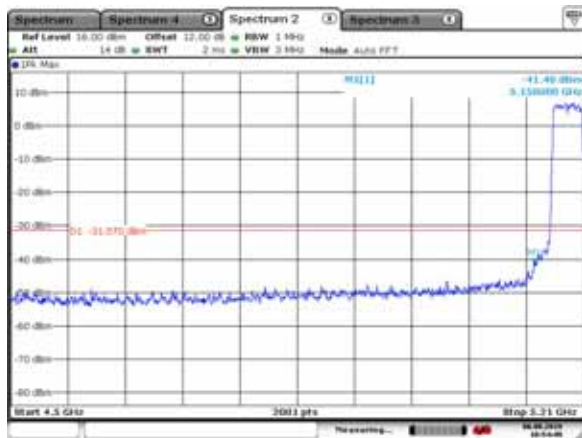
Date: 11. JUL. 2019 08:15:41

### 5230MHz with SISO



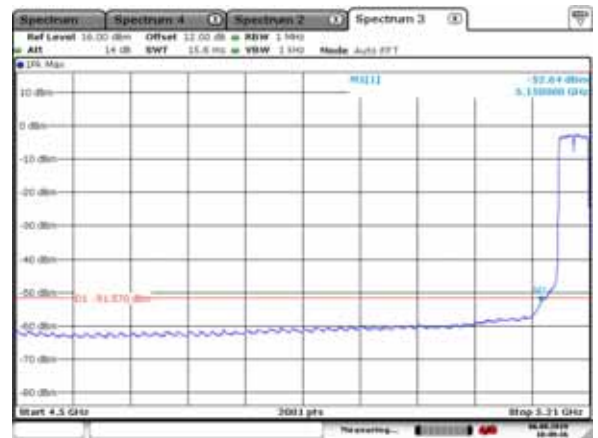
Date: 11. JUL. 2019 08:15:19

### 5190MHz with CDD



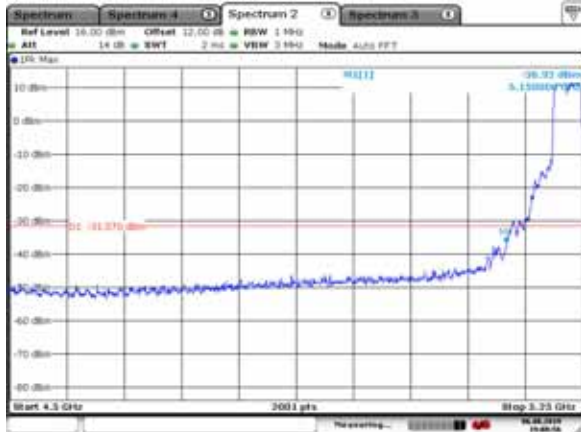
Date: 6. JUN. 2019 10:54:09

### 5190MHz with CDD



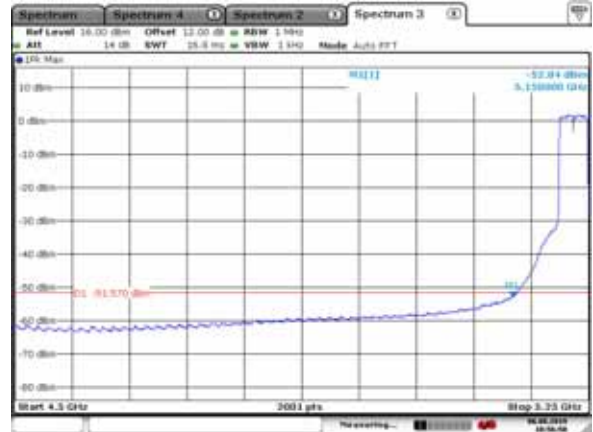
Date: 6. JUN. 2019 10:54:18

5230MHz with CDD



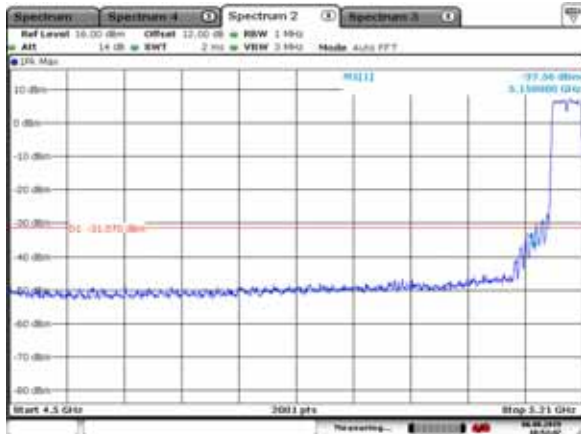
Date: 6.AUG.2019 19:59:56

5230MHz with CDD



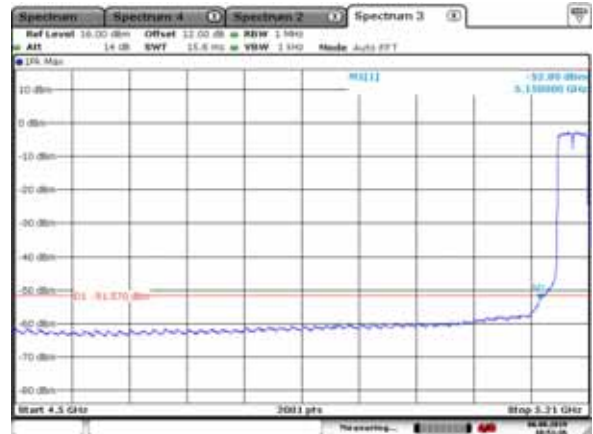
Date: 6.AUG.2019 19:59:55

5190MHz with Beamforming



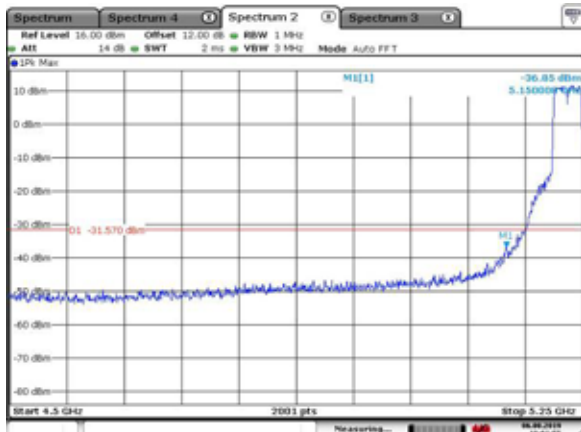
Date: 6.AUG.2019 19:55:47

5190MHz with Beamforming



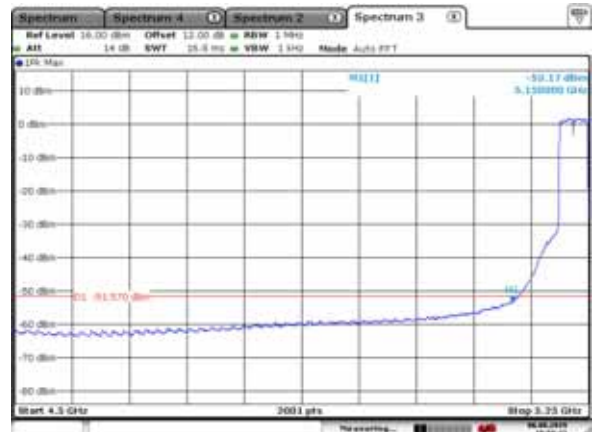
Date: 6.AUG.2019 19:55:18

5230MHz with Beamforming



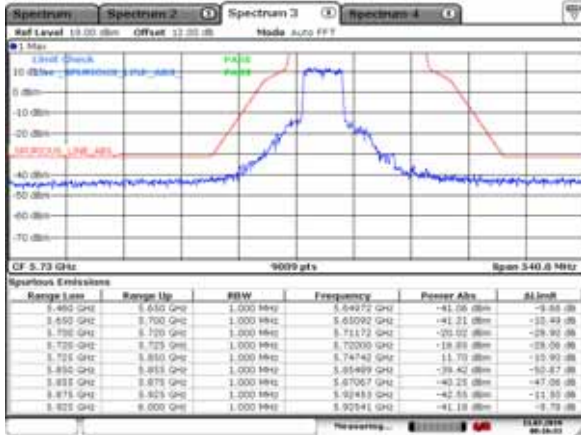
Date: 6.AUG.2019 19:55:55

5230MHz with Beamforming



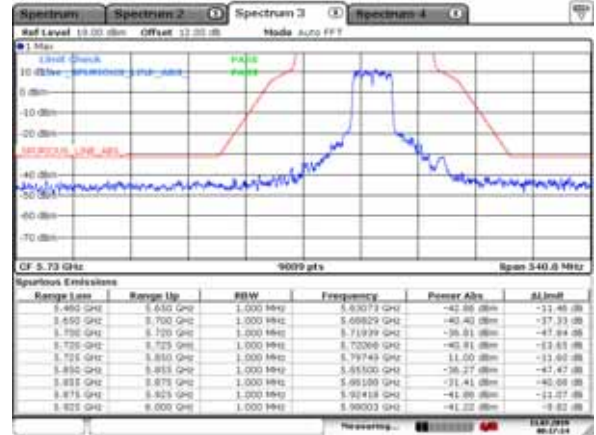
Date: 6.AUG.2019 19:56:02

5755MHz with SISO



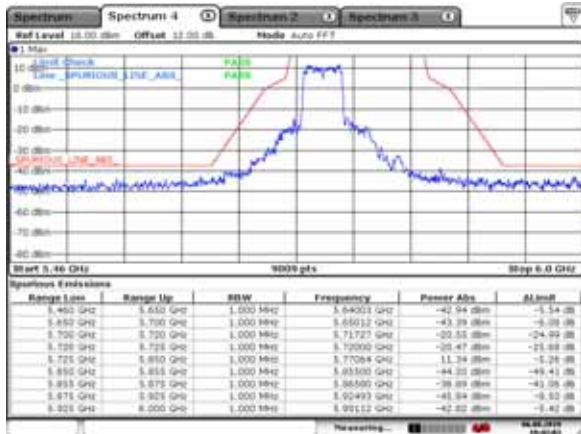
Date: 11. JUL. 2019 08:16:34

5795MHz with SISO



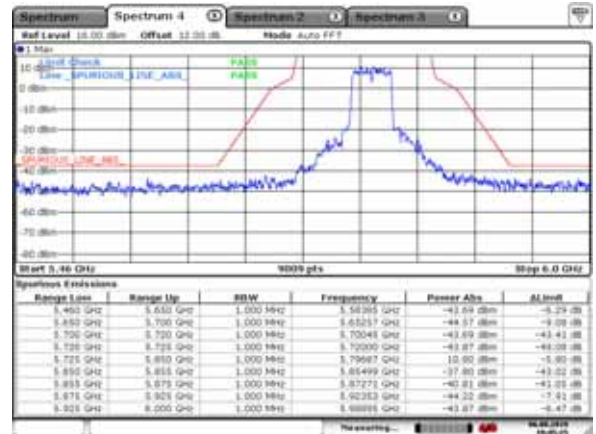
Date: 11. JUL. 2019 08:17:15

5755MHz with CDD



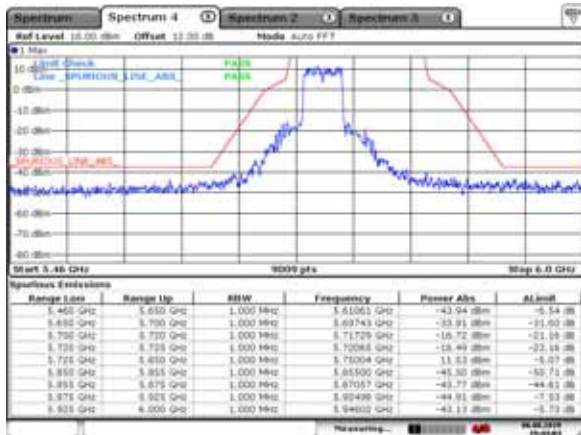
Date: 6. JUN. 2023 10:41:02

5795MHz with CDD



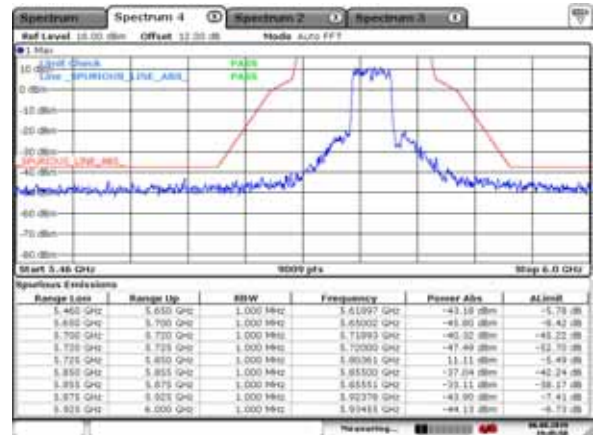
Date: 6. JUN. 2023 10:47:13

5755MHz with Beamforming



Date: 6. JUN. 2023 10:44:04

5795MHz with Beamforming

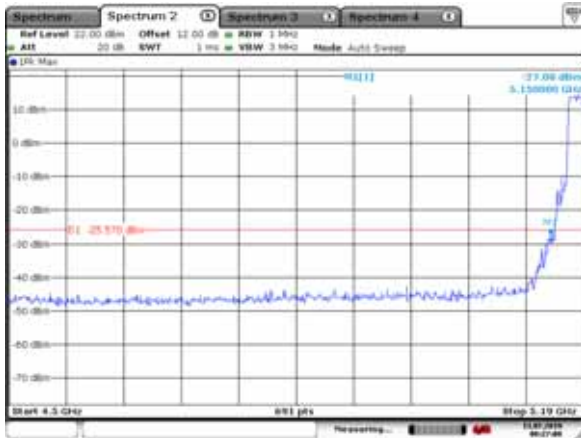


Date: 6. JUN. 2023 10:47:08



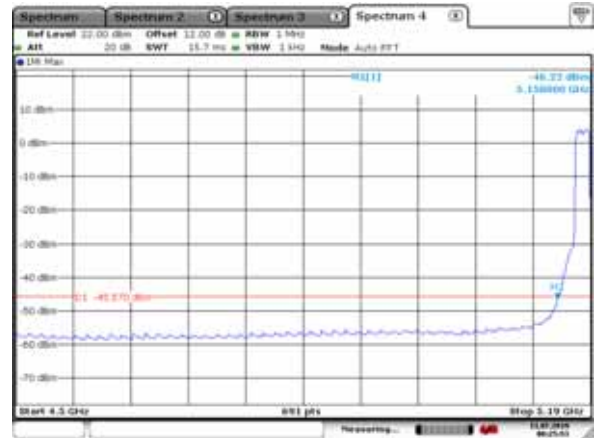
## 802.11ac(20MHz)

5180MHz with SISO



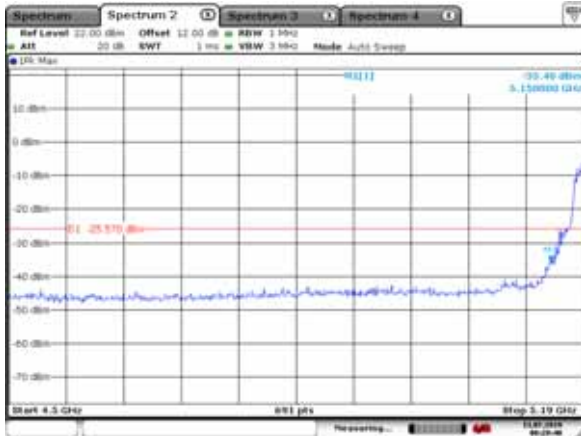
Date: 11. JUL. 2019 08:27:08

5180MHz with SISO



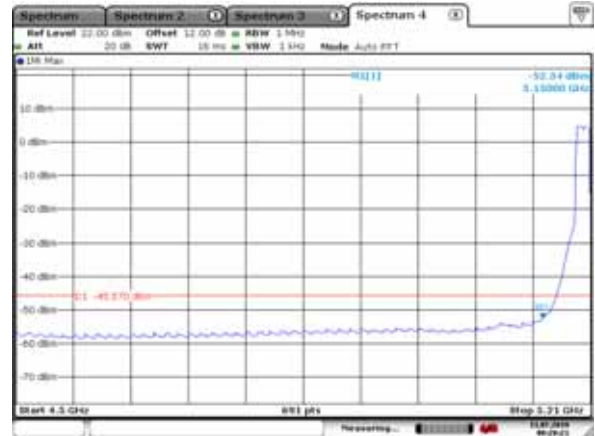
Date: 11. JUL. 2019 08:25:54

5200MHz with SISO



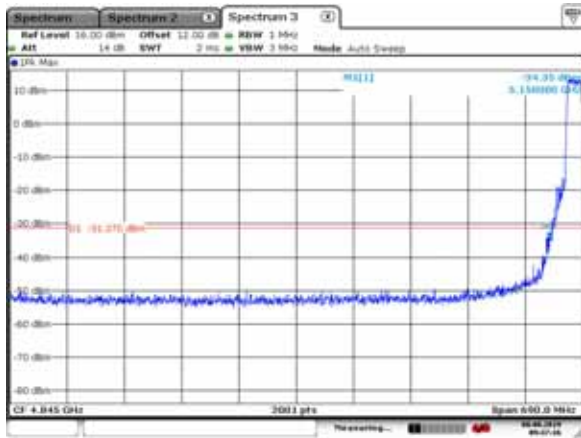
Date: 11. JUL. 2019 08:28:41

5200MHz with SISO



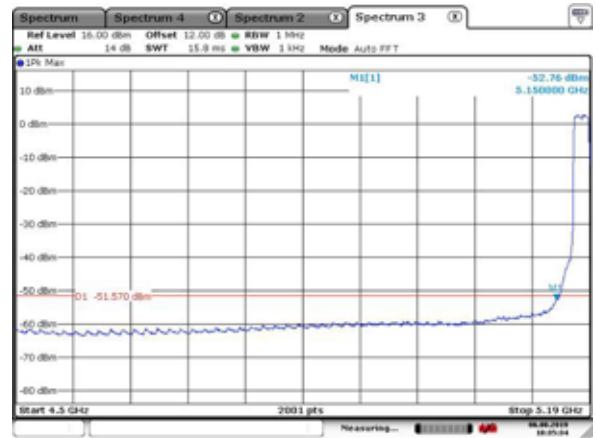
Date: 11. JUL. 2019 08:28:21

5180MHz with CDD



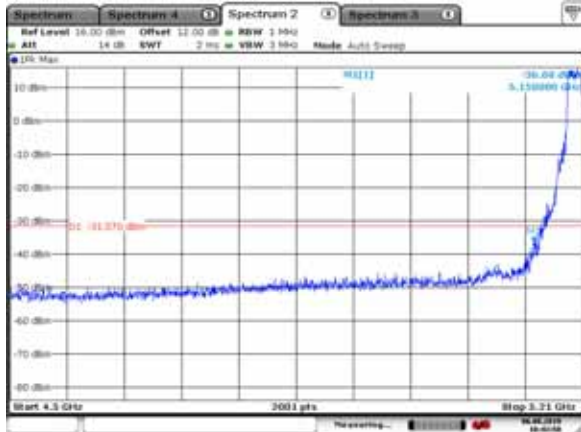
Date: 6. AUG. 2019 18:27:17

5180MHz with CDD



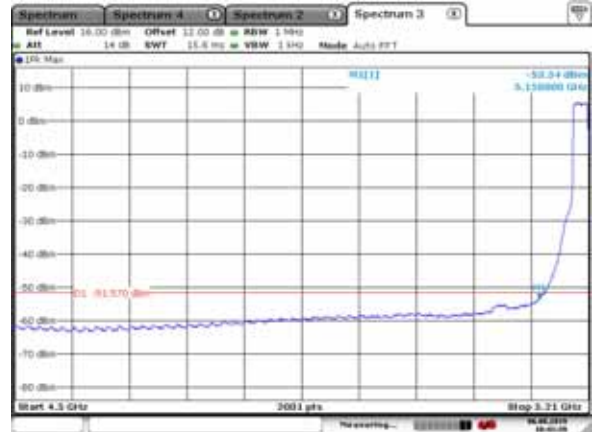
Date: 6. AUG. 2019 18:35:34

5200MHz with CDD



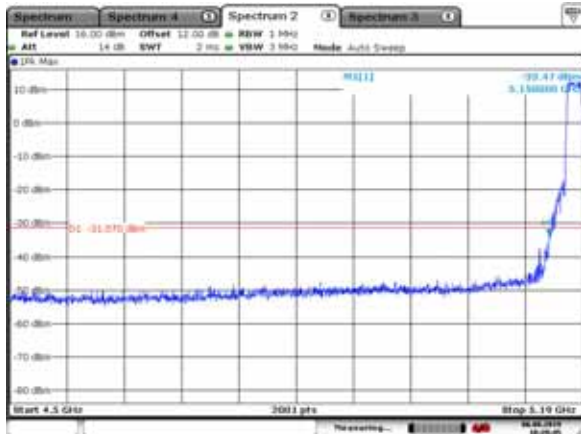
Date: 6/20/2023 10:41:55

5200MHz with CDD



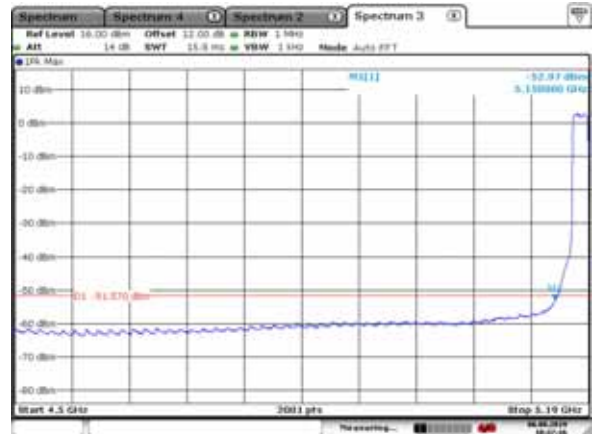
Date: 6/20/2023 10:41:55

5180MHz with Beamforming



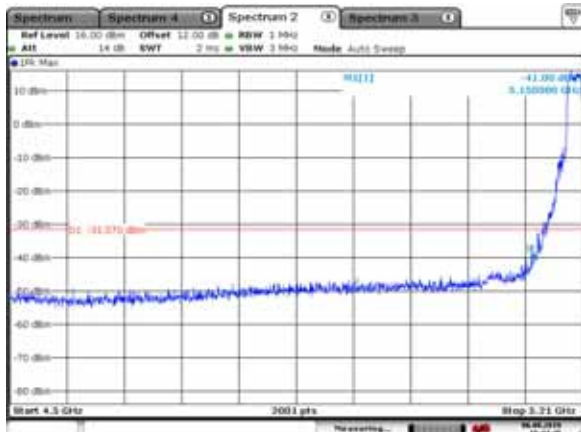
Date: 6/20/2023 10:27:46

5180MHz with Beamforming



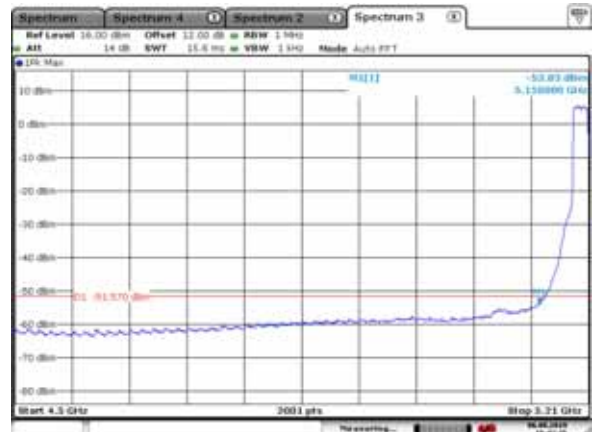
Date: 6/20/2023 10:27:46

5200MHz with Beamforming



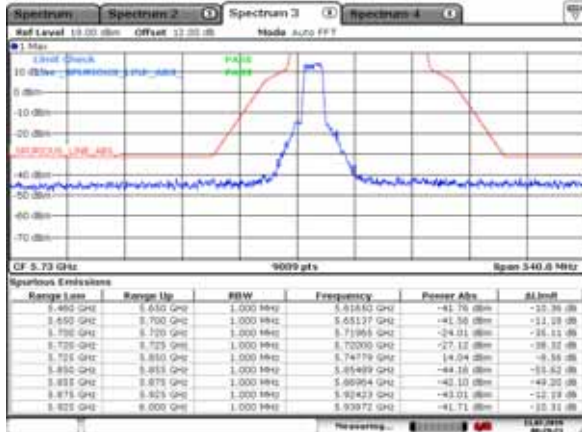
Date: 6/20/2023 10:44:09

5200MHz with Beamforming



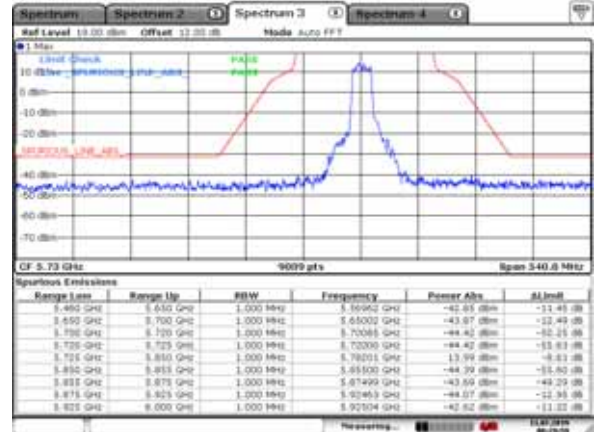
Date: 6/20/2023 10:44:09

5745MHz with SISO



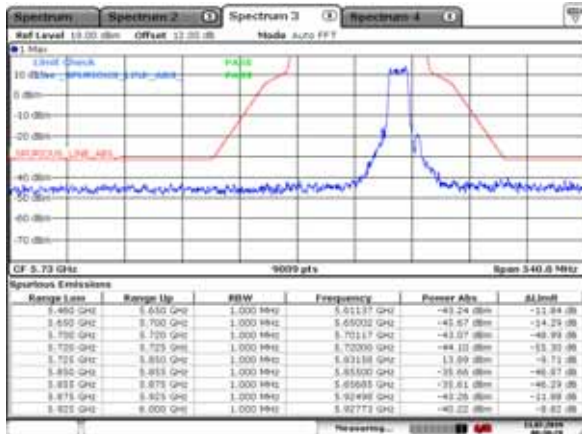
Date: 11. JUL. 2019 08:29:23

5785MHz with SISO



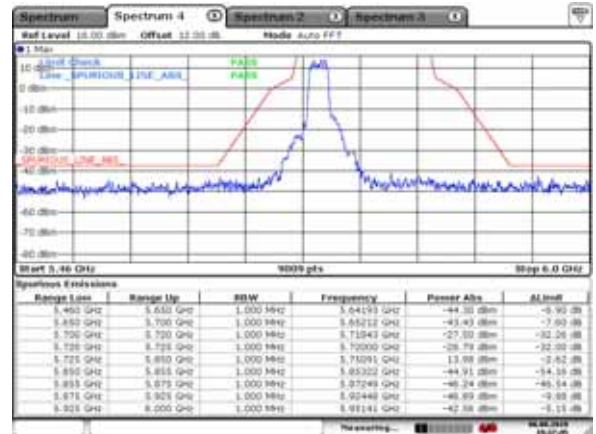
Date: 11. JUL. 2019 08:29:59

5825MHz with SISO



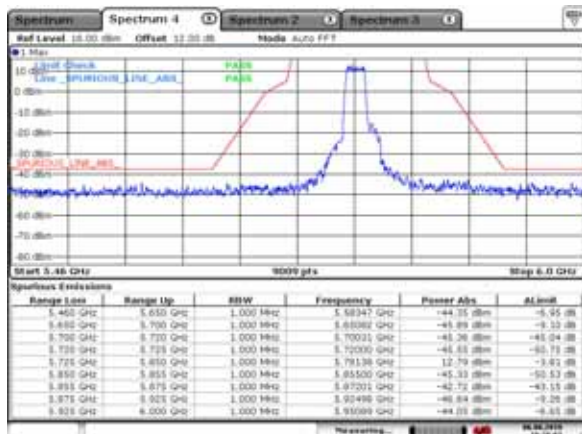
Date: 11. JUL. 2019 08:30:29

5745MHz with CDD



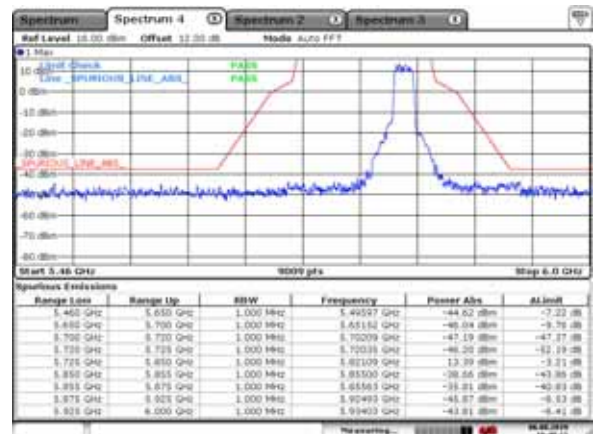
Date: 6. JUL. 2019 19:17:40

5785MHz with CDD



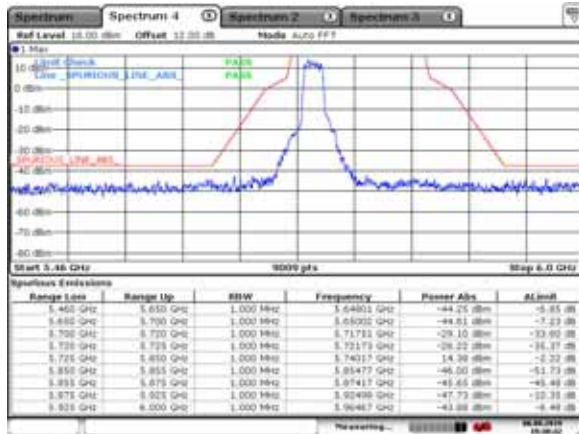
Date: 6. JUL. 2019 19:27:07

5825MHz with CDD



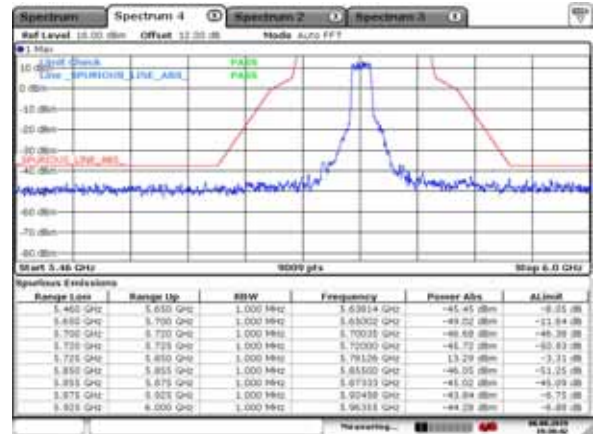
Date: 6. JUL. 2019 19:48:11

### 5745MHz with Beamforming



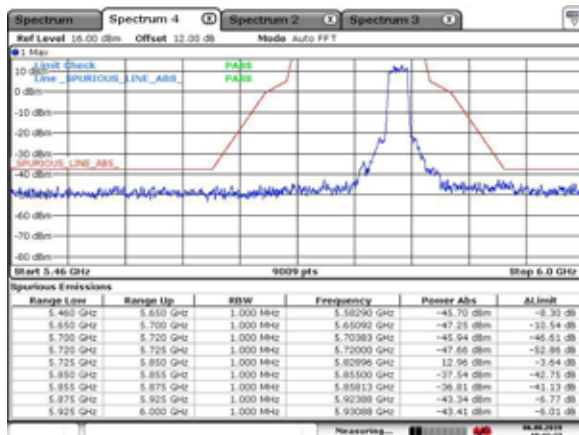
Date: 6.10.2019 19:37:32

### 5785MHz with Beamforming



Date: 6.10.2019 19:37:43

### 5825MHz with Beamforming

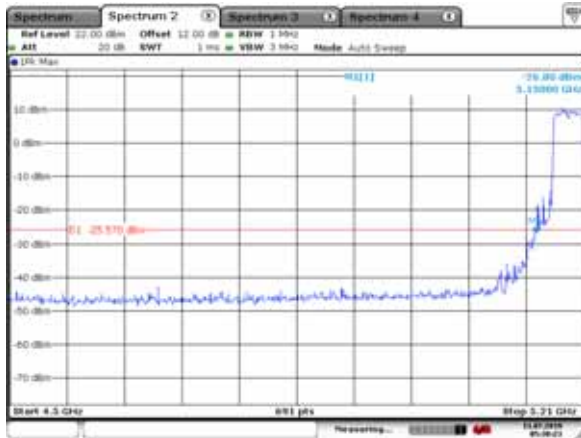


Date: 6.10.2019 19:41:27



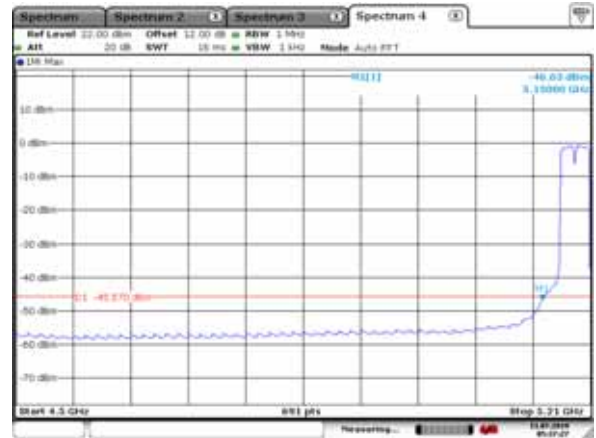
## 802.11ac(40MHz)

5190MHz with SISO



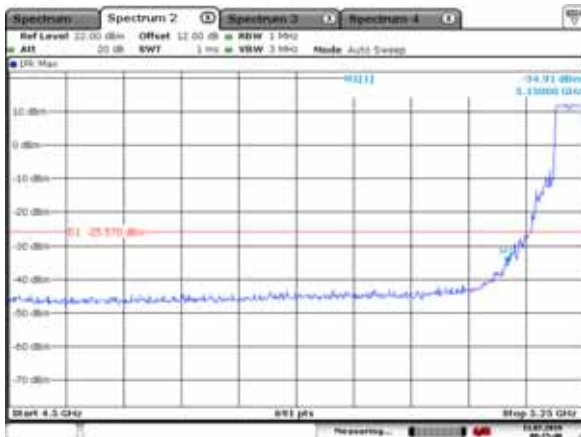
Date: 11. JUL. 2019 05:38:23

5190MHz with SISO



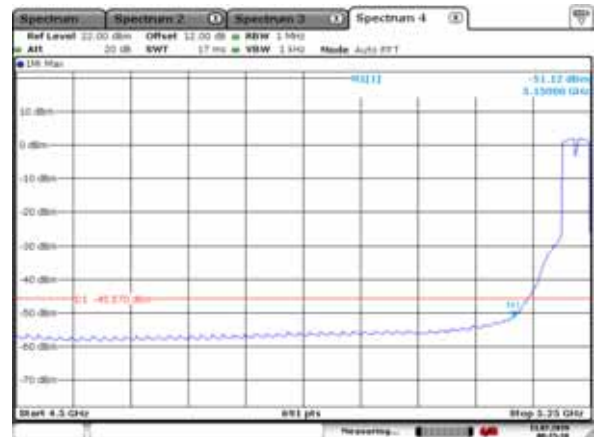
Date: 11. JUL. 2019 05:37:27

5230MHz with SISO



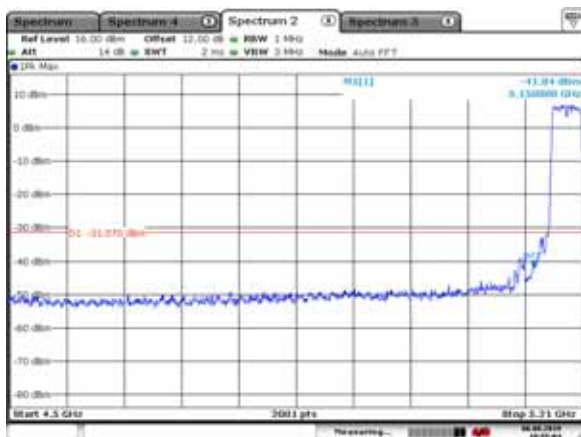
Date: 11. JUL. 2019 08:15:41

5230MHz with SISO



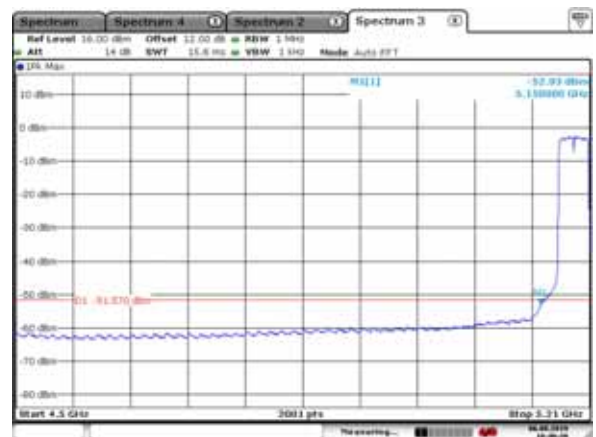
Date: 11. JUL. 2019 08:15:19

5190MHz with CDD



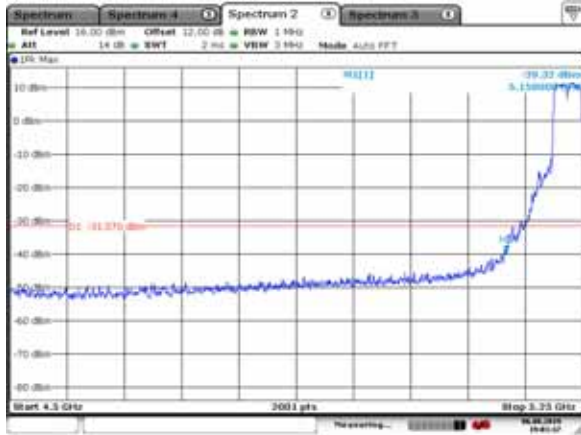
Date: 6. JUN. 2019 19:57:19

5190MHz with CDD



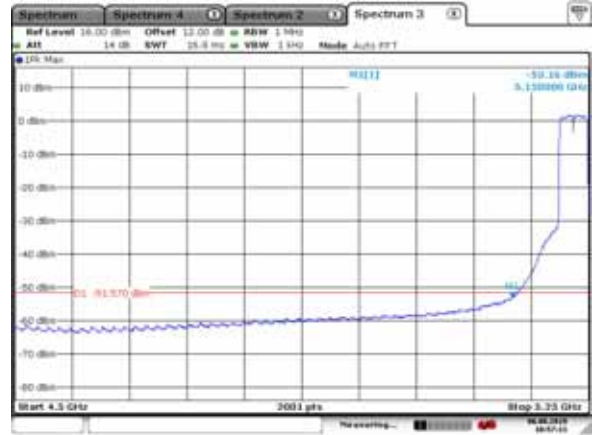
Date: 6. JUN. 2019 19:49:38

5230MHz with CDD



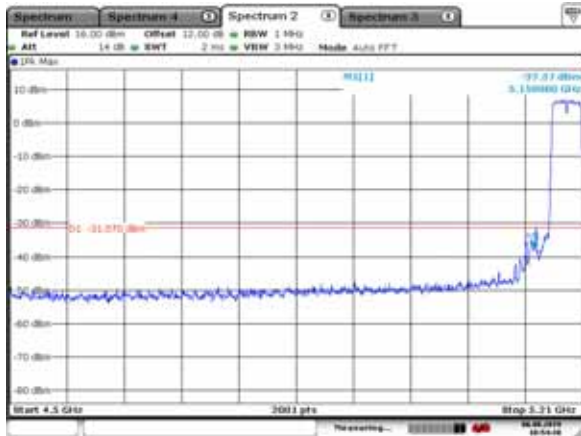
Data: 6/20/2013 10:57:11

5230MHz with CDD



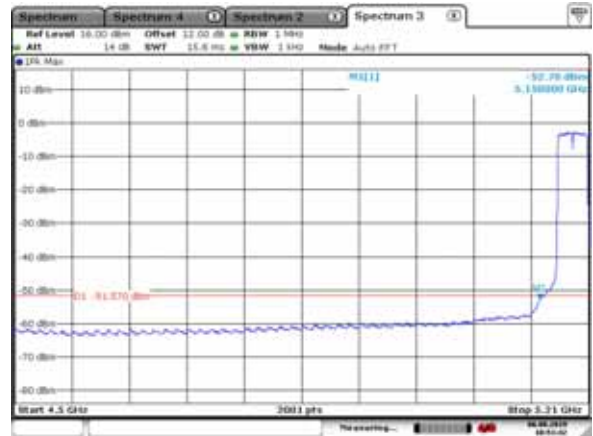
Data: 6/20/2013 10:57:11

5190MHz with Beamforming



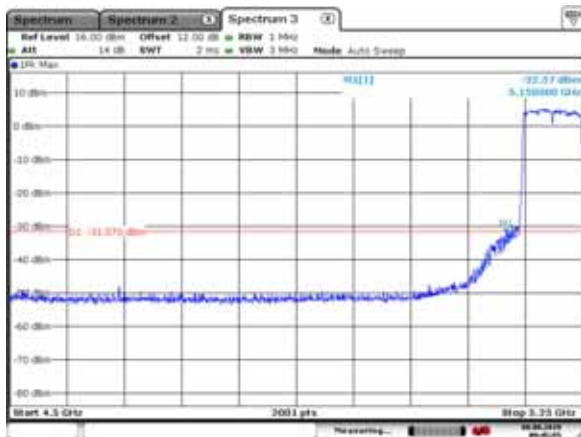
Data: 6/20/2013 10:57:12

5190MHz with Beamforming



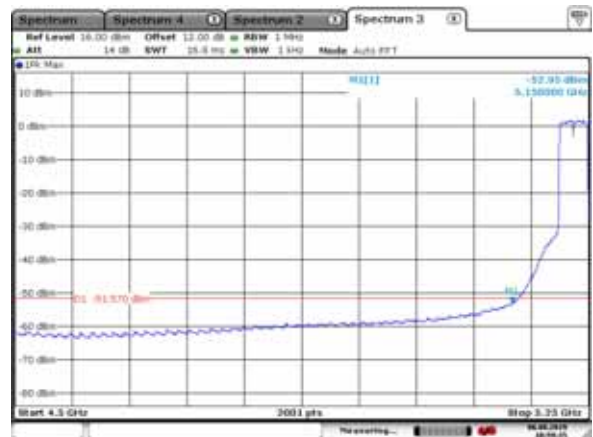
Data: 6/20/2013 10:57:12

5230MHz with Beamforming



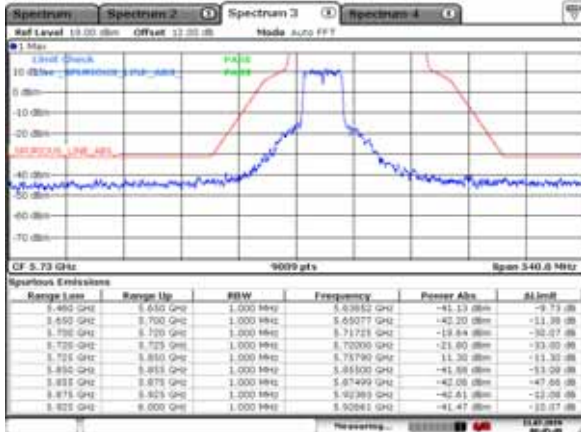
Data: 6/20/2013 10:57:12

5230MHz with Beamforming



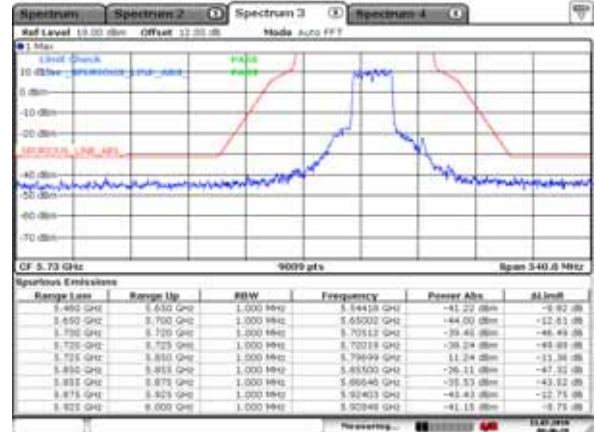
Data: 6/20/2013 10:57:12

5755MHz with SISO



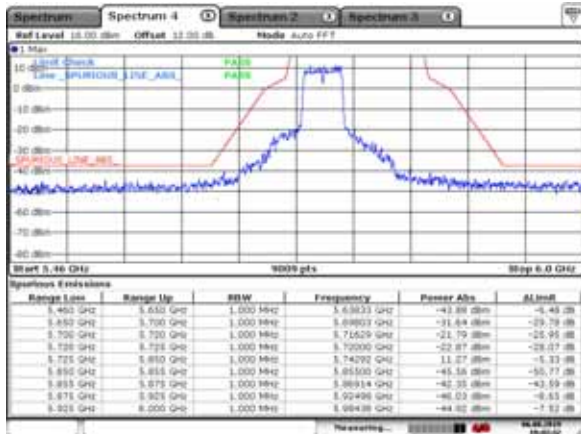
Date: 11. JUL. 2019 08:45:50

5795MHz with SISO



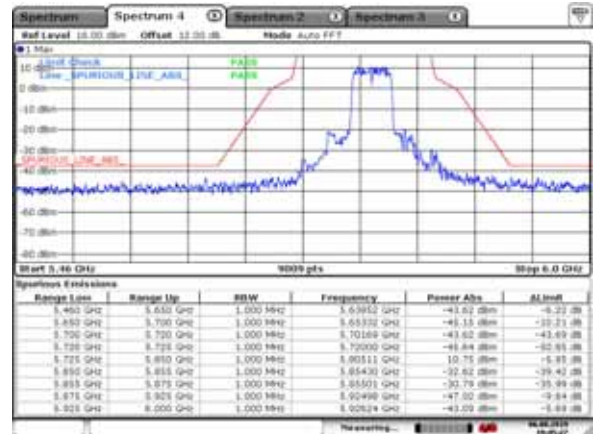
Date: 11. JUL. 2019 08:46:28

5755MHz with CDD



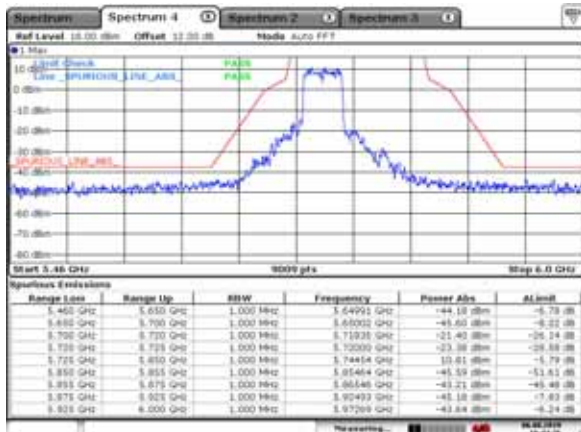
Date: 6. JUL. 2019 19:41:37

5795MHz with CDD



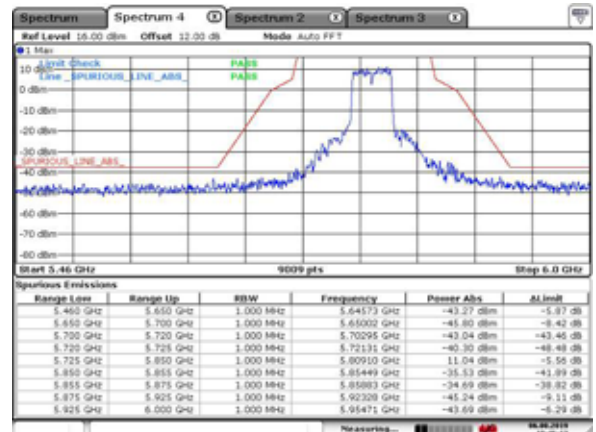
Date: 6. JUL. 2019 19:41:27

5755MHz with Beamforming



Date: 6. JUL. 2019 19:44:28

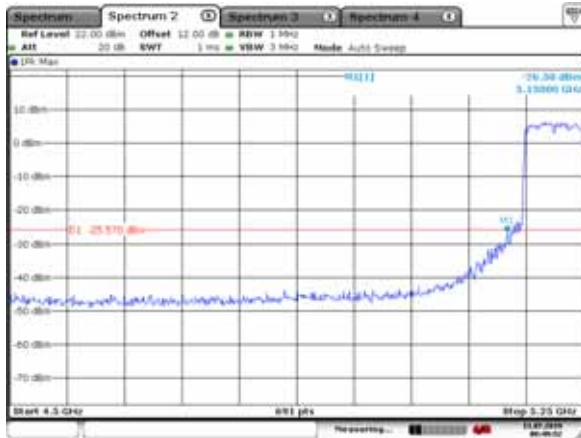
5795MHz with Beamforming



Date: 6. JUL. 2019 19:46:13

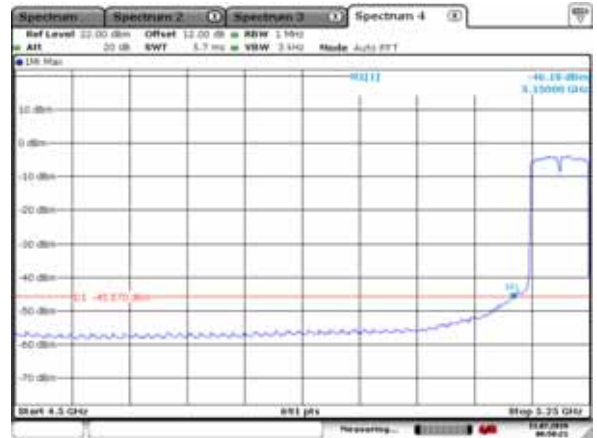
## 802.11ac(80MHz)

5210MHz with SISO



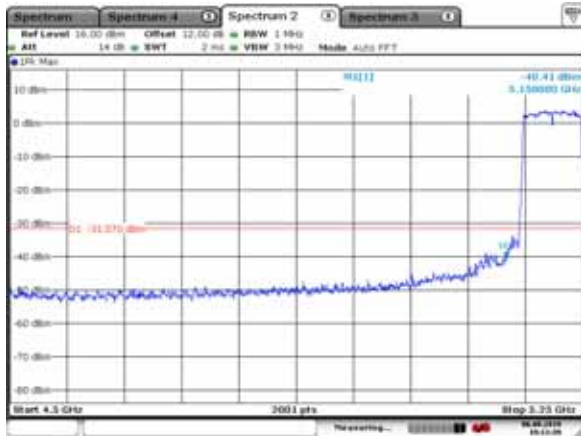
Date: 11. JUL. 2019 08:49:51

5210MHz with SISO



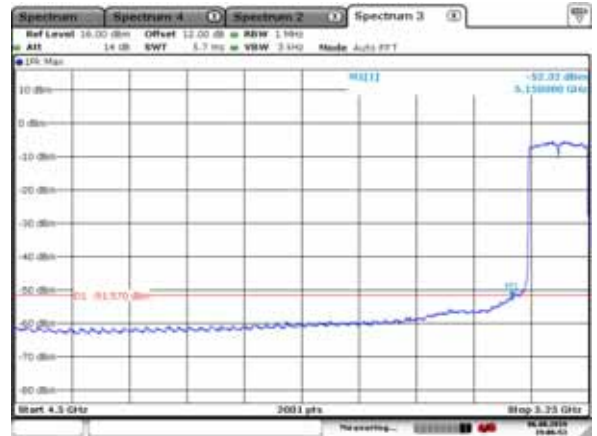
Date: 11. JUL. 2019 08:58:21

5210MHz with CDD



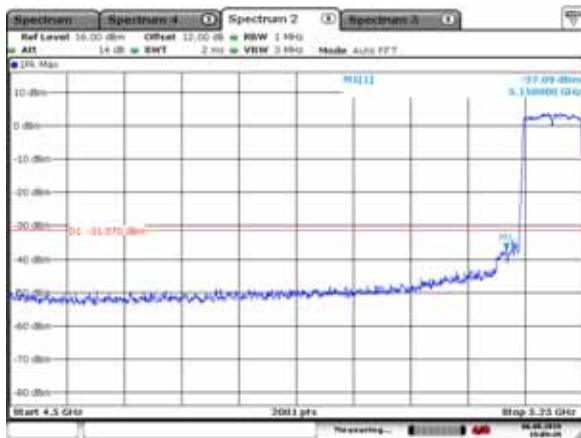
Date: 6. JUL. 2019 19:11:35

5210MHz with CDD



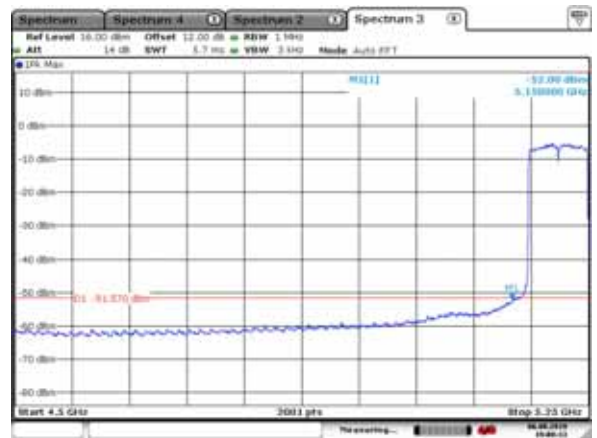
Date: 6. JUL. 2019 19:09:32

5210MHz with Beamforming



Date: 6. JUL. 2019 19:19:35

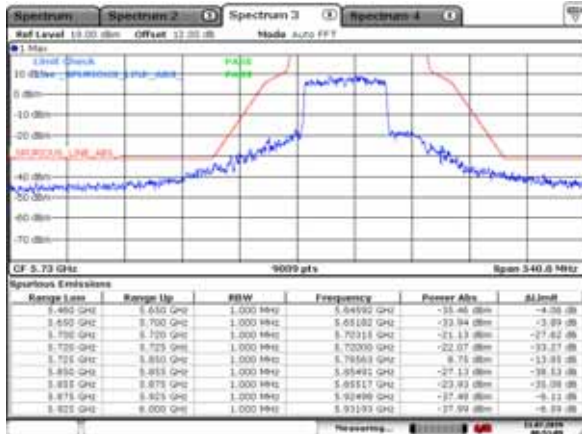
5210MHz with Beamforming



Date: 6. JUL. 2019 19:09:18

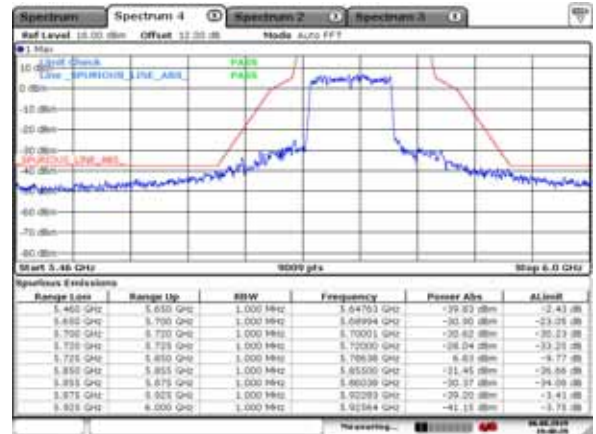


### 5775MHz with SISO



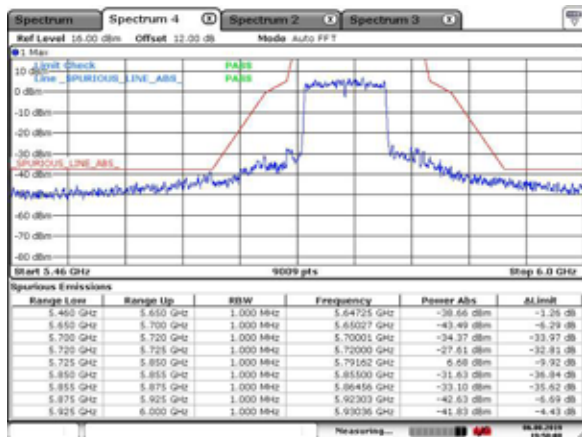
Date: 11. JUL. 2019 08:53:09

### 5775MHz with CDD



Date: 6. JUL. 2019 19:49:19

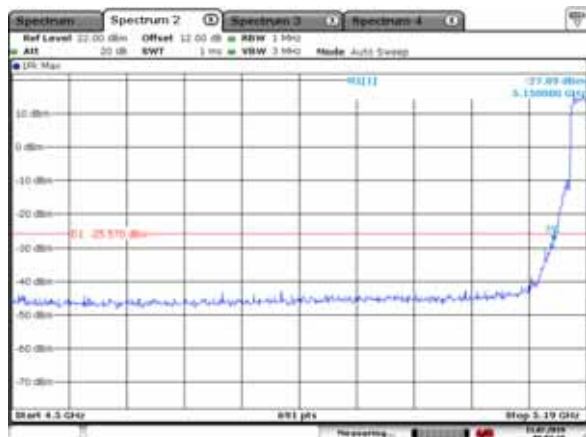
### 5775MHz with Beamforming



Date: 6. JUL. 2019 19:50:19

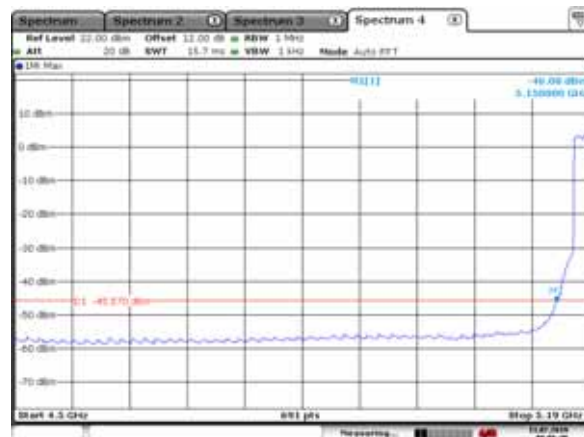
**802.11ax(20MHz)**

5180MHz with SISO



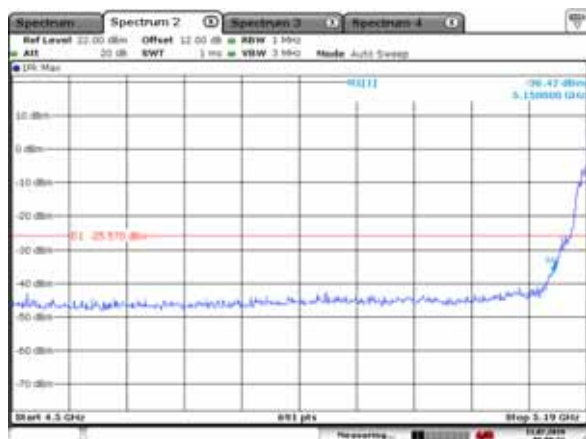
Date: 11. JUL. 2019 09:07:19

5180MHz with SISO



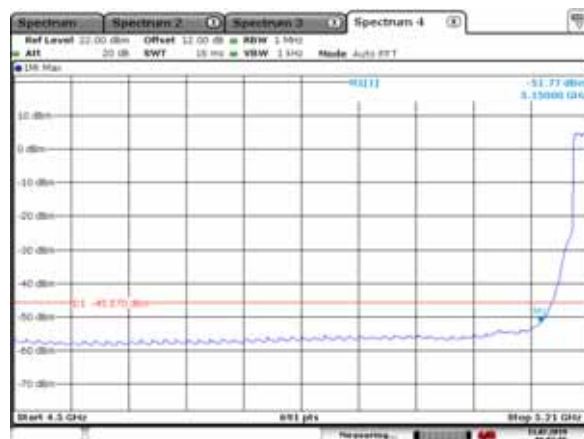
Date: 11. JUL. 2019 09:06:47

5200MHz with SISO



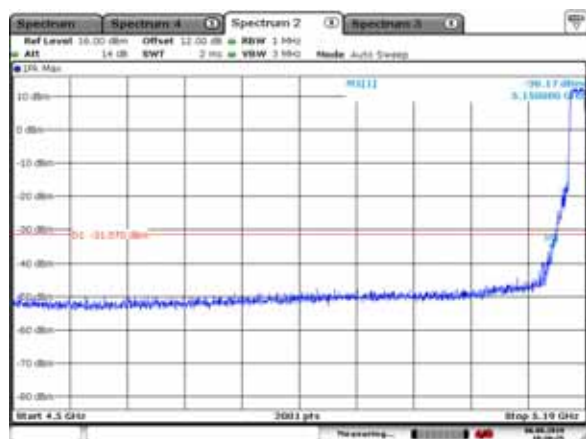
Date: 11. JUL. 2019 09:08:31

5200MHz with SISO



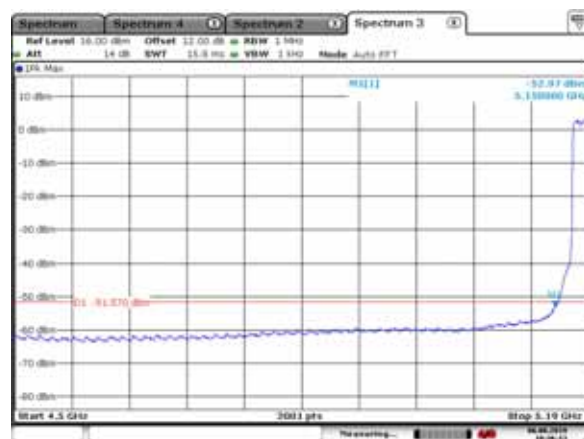
Date: 11. JUL. 2019 09:07:55

5180MHz with CDD



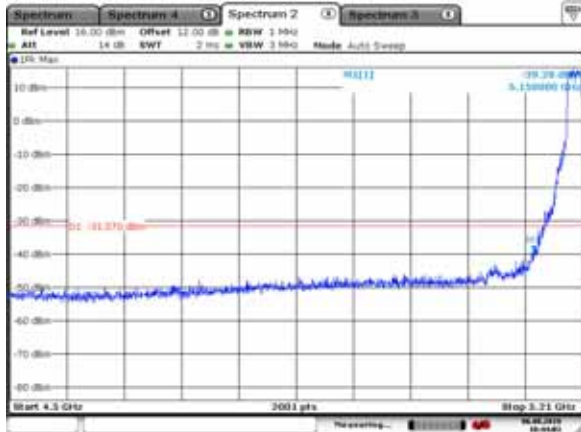
Date: 6. JUN. 2019 10:32:25

5180MHz with CDD



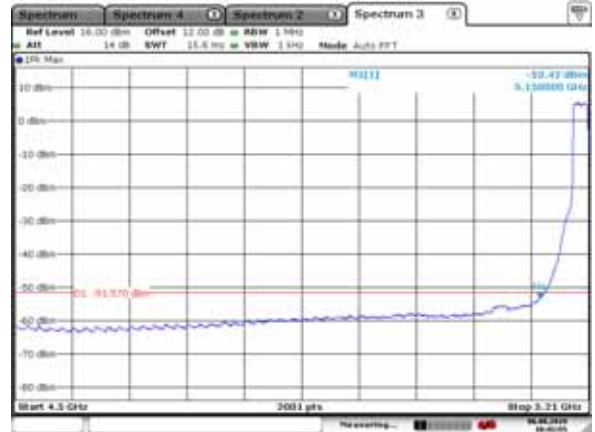
Date: 6. JUN. 2019 10:36:18

5200MHz with CDD



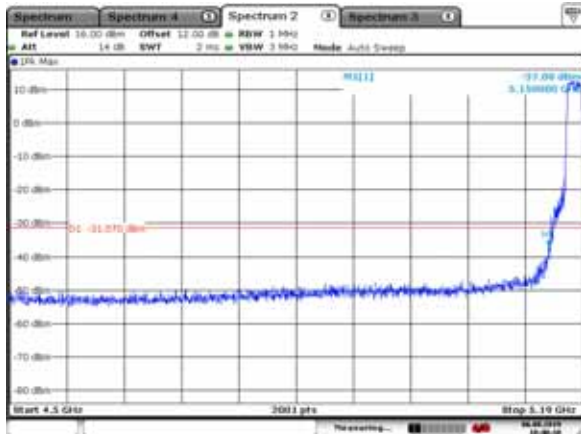
Date: 6/20/2023 10:44:32

5200MHz with CDD



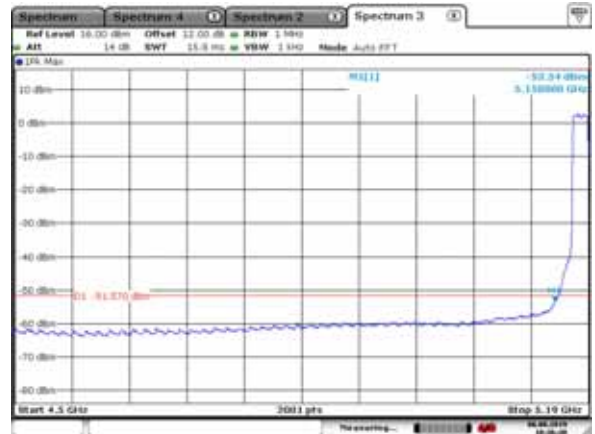
Date: 6/20/2023 10:44:35

5180MHz with Beamforming



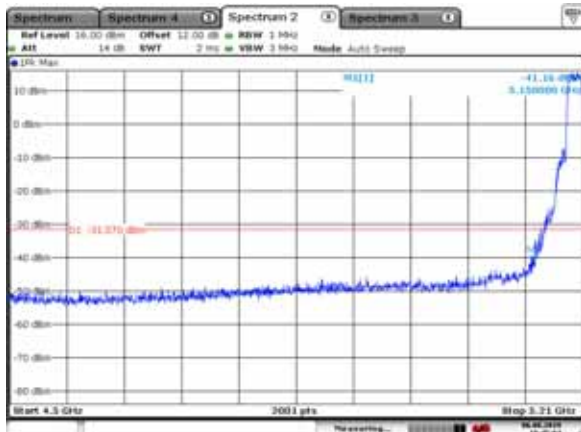
Date: 6/20/2023 10:45:17

5180MHz with Beamforming



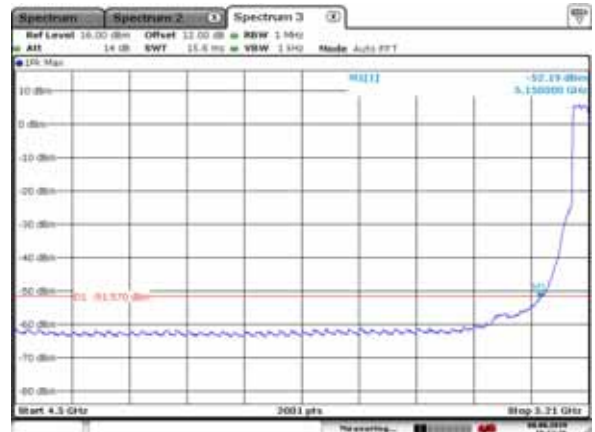
Date: 6/20/2023 10:45:20

5200MHz with Beamforming



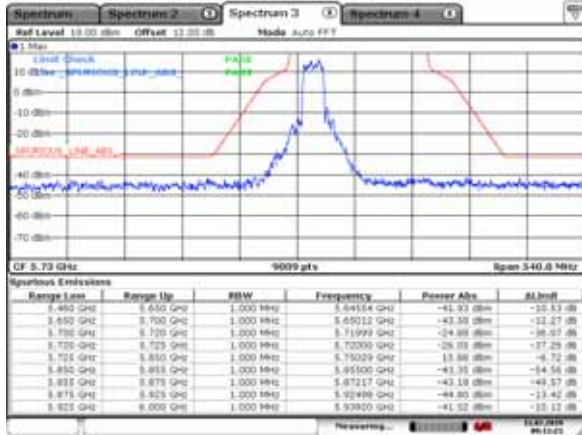
Date: 6/20/2023 10:45:18

5200MHz with Beamforming



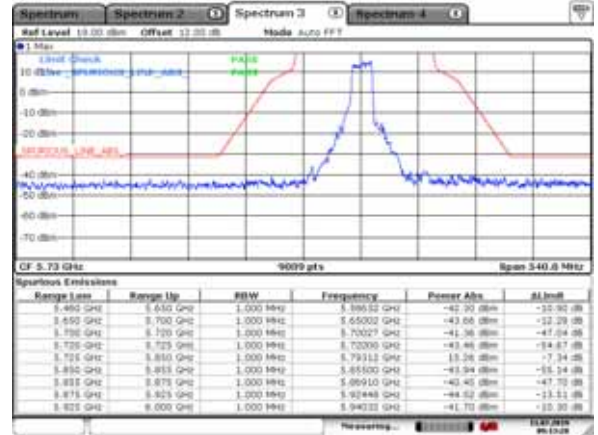
Date: 6/20/2023 10:45:18

5745MHz with SISO



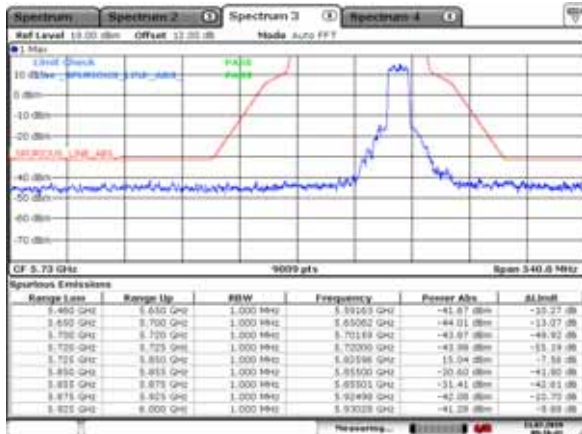
Date: 11. JUL. 2019 09:11:21

5785MHz with SISO



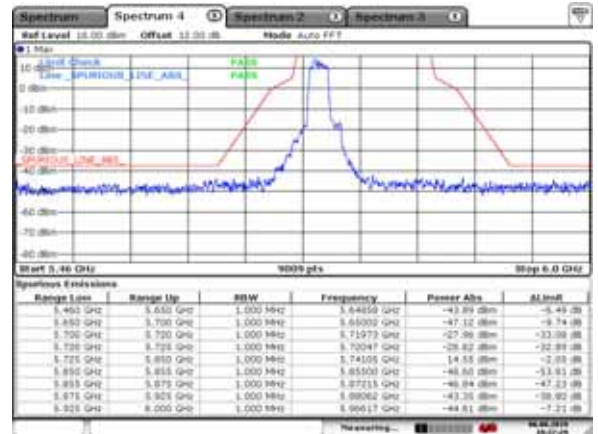
Date: 11. JUL. 2019 09:13:28

5825MHz with SISO



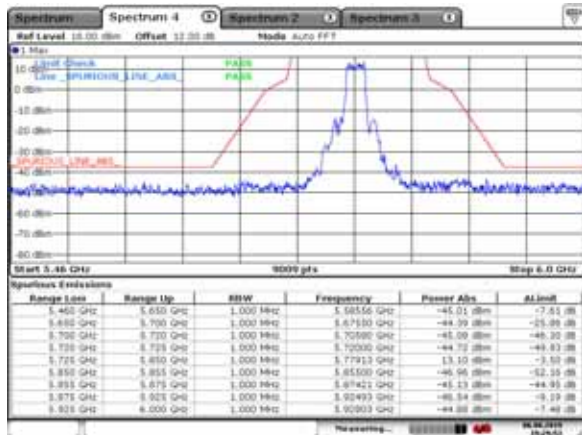
Date: 11. JUL. 2019 09:16:41

5745MHz with CDD



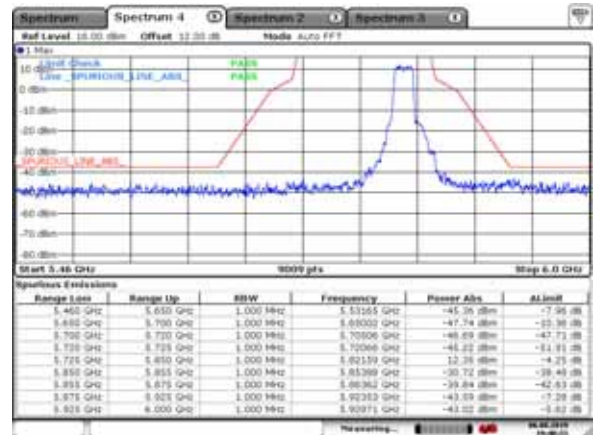
Date: 6. JUN. 2023 19:17:28

5785MHz with CDD



Date: 6. JUN. 2023 19:27:13

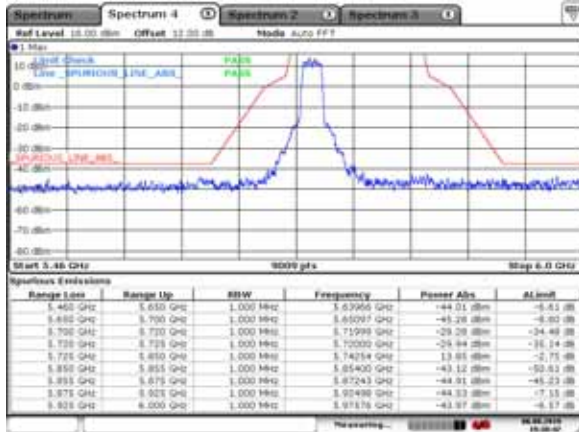
5825MHz with CDD



Date: 6. JUN. 2023 19:28:11

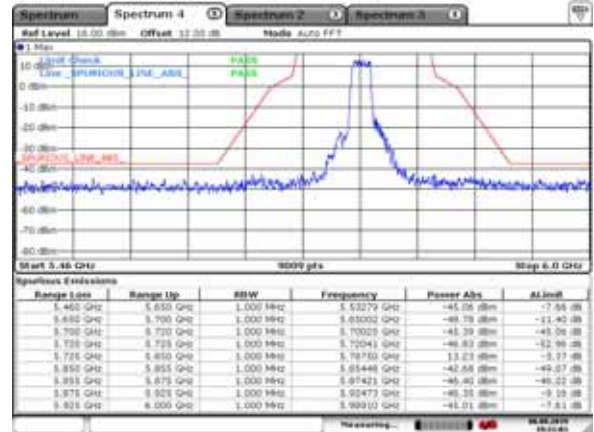


### 5745MHz with Beamforming



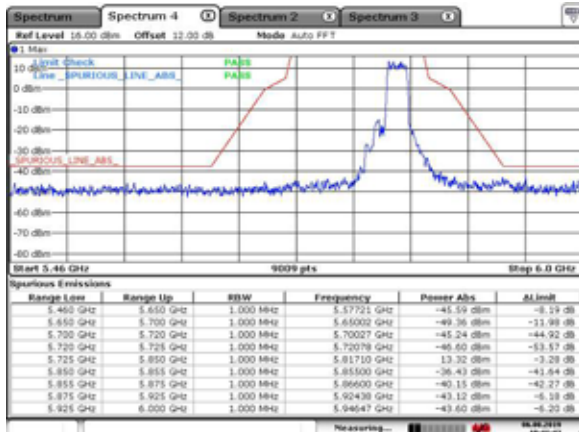
Date: 6.2019.2019 19:37:18

### 5785MHz with Beamforming



Date: 6.2019.2019 19:37:18

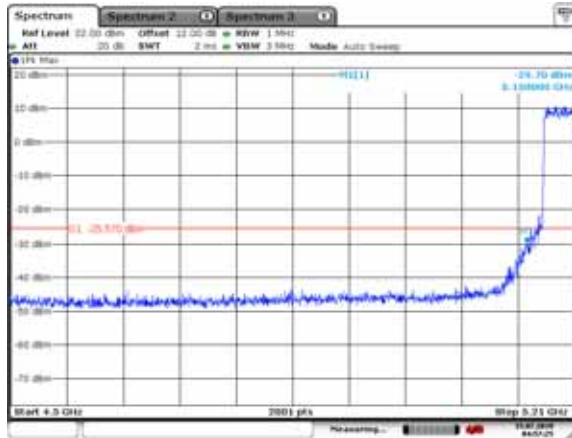
### 5825MHz with Beamforming



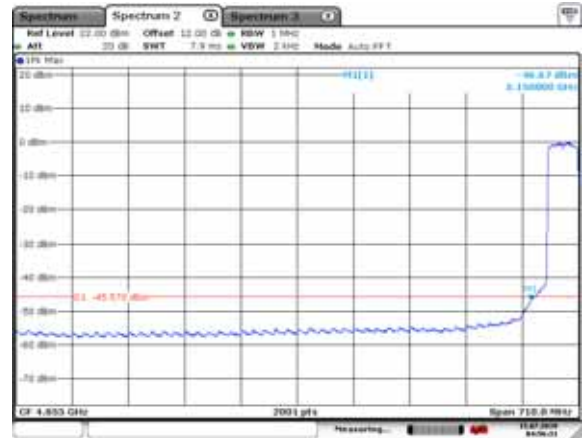
Date: 6.2019.2019 19:41:43

## 802.11ax(40MHz)

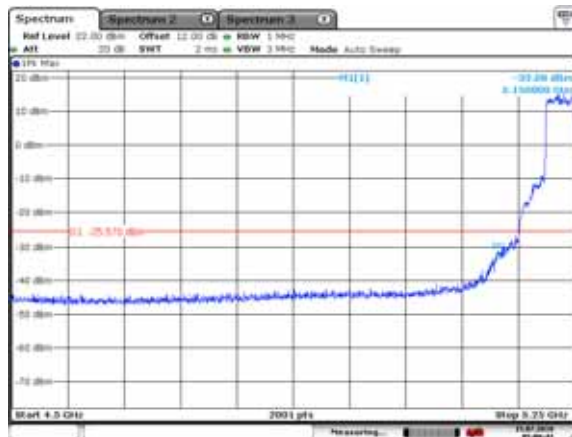
5190MHz with SISO



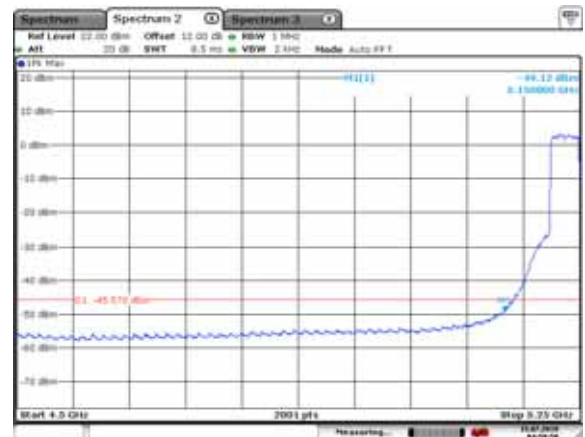
5190MHz with SISO



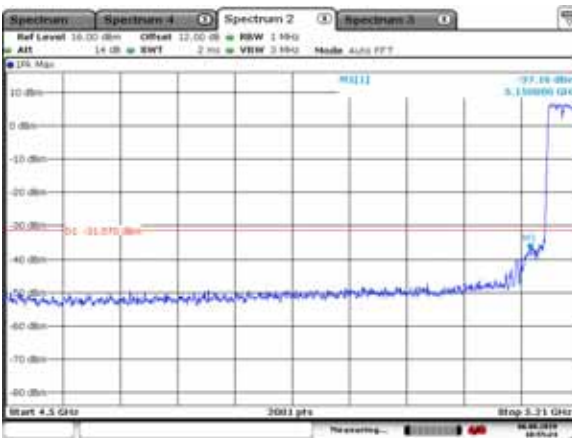
5230MHz with SISO



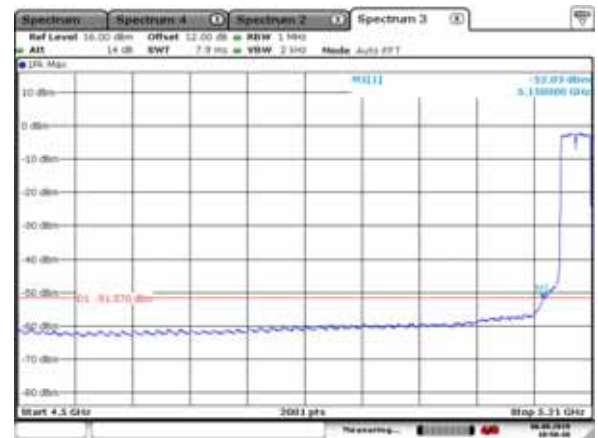
5230MHz with SISO



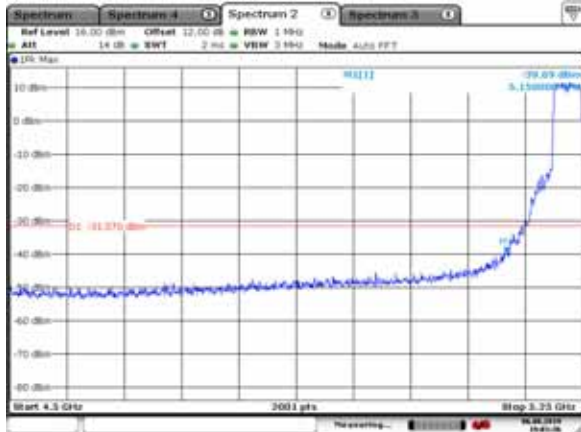
5190MHz with CDD



5190MHz with CDD

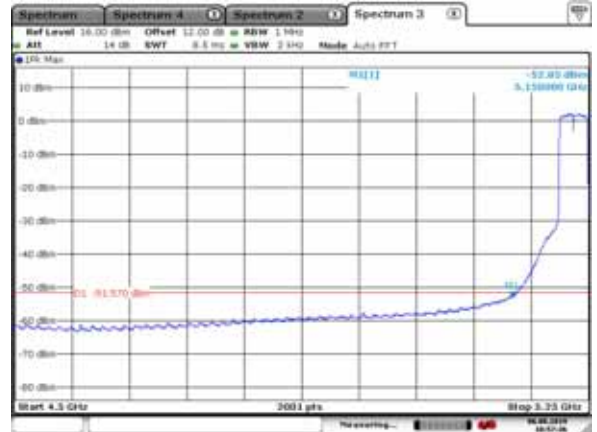


5230MHz with CDD



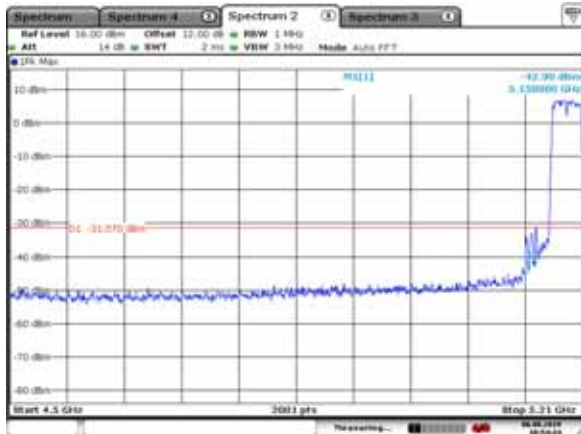
Data: 6/20/2023 10:52:17

5230MHz with CDD



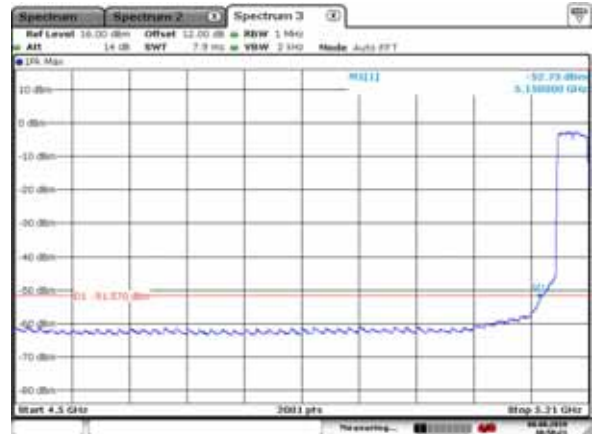
Data: 6/20/2023 10:52:18

5190MHz with Beamforming



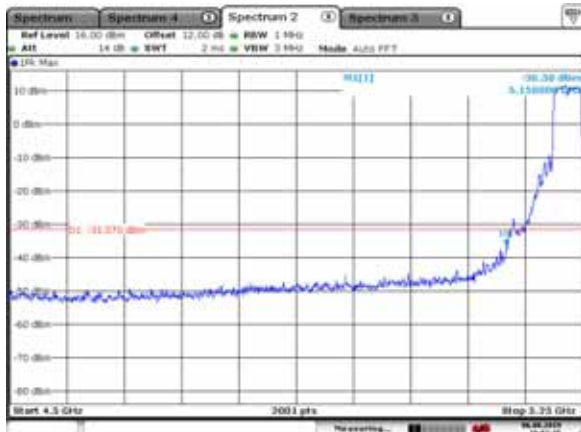
Data: 6/20/2023 10:52:18

5190MHz with Beamforming



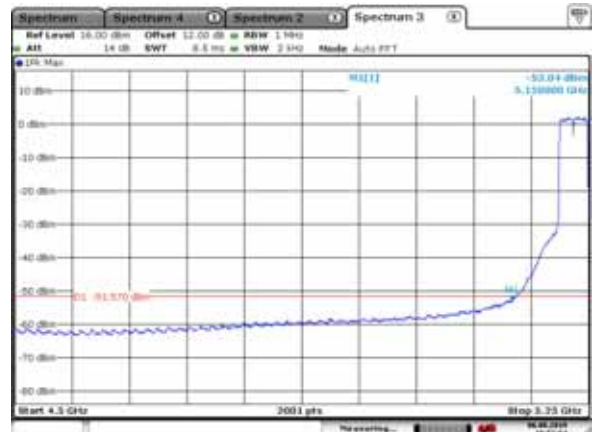
Data: 6/20/2023 10:52:19

5230MHz with Beamforming



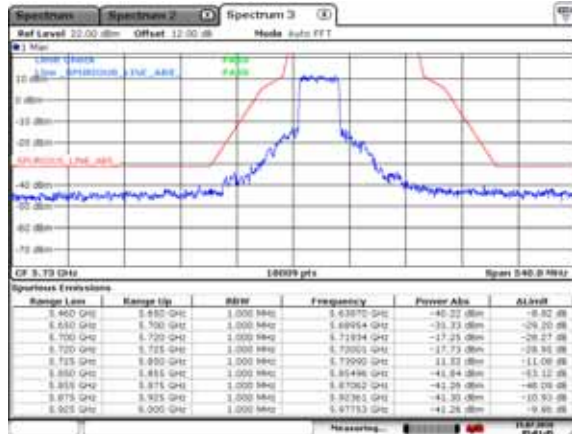
Data: 6/20/2023 10:52:18

5230MHz with Beamforming



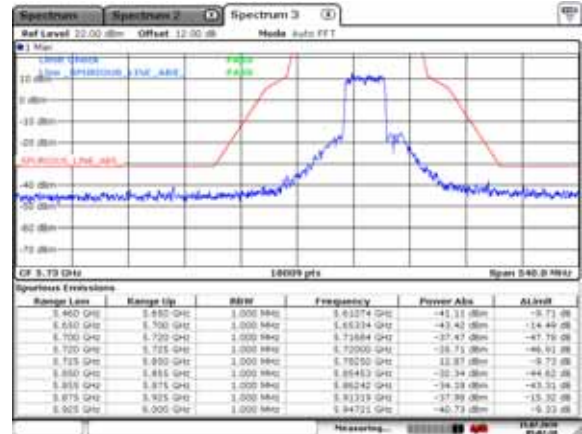
Data: 6/20/2023 10:52:19

5755MHz with SISO



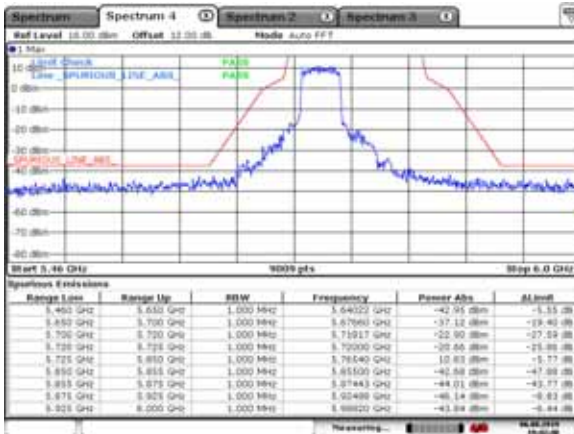
Date: 15.JUL.2019 05:01:45

5795MHz with SISO



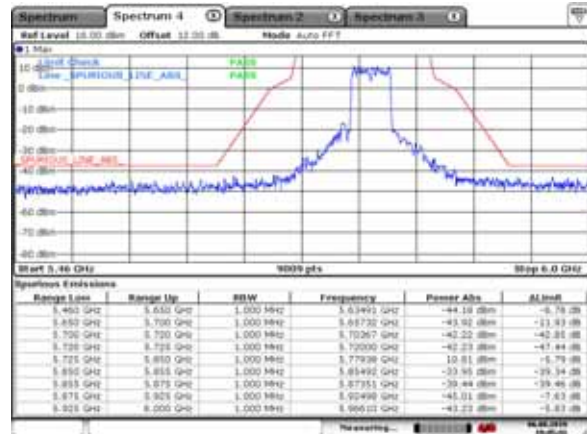
Date: 15.JUL.2019 05:02:18

5755MHz with CDD



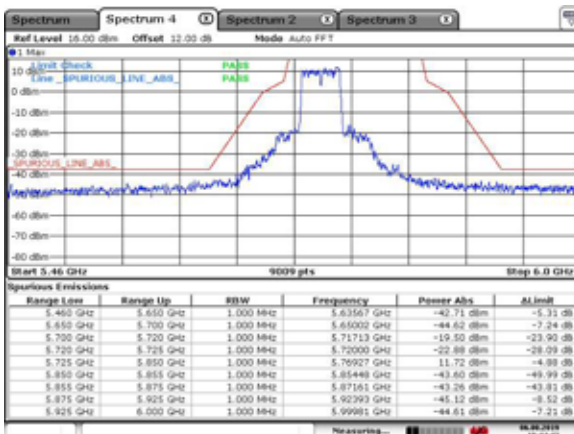
Date: 6.AUG.2019 15:01:09

5795MHz with CDD



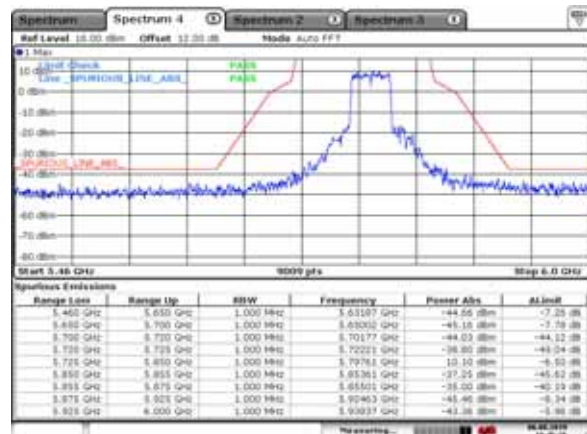
Date: 6.AUG.2019 15:01:42

5755MHz with Beamforming



Date: 6.AUG.2019 15:04:01

5795MHz with Beamforming

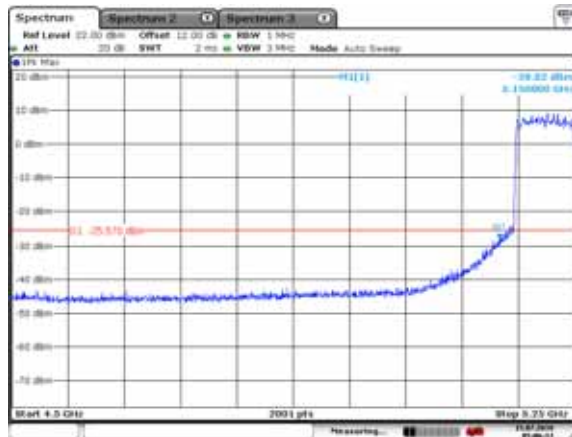


Date: 6.AUG.2019 15:04:28



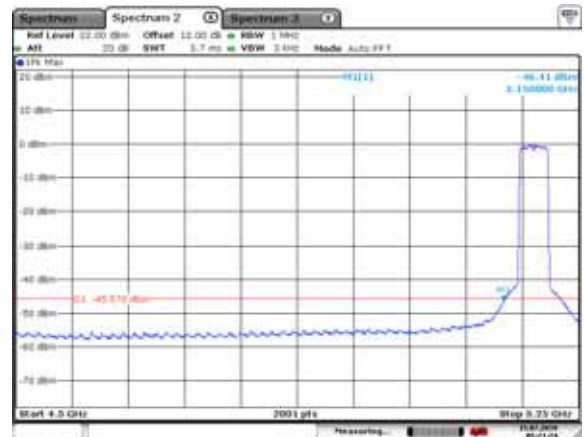
## 802.11ax(80MHz)

5210MHz with SISO



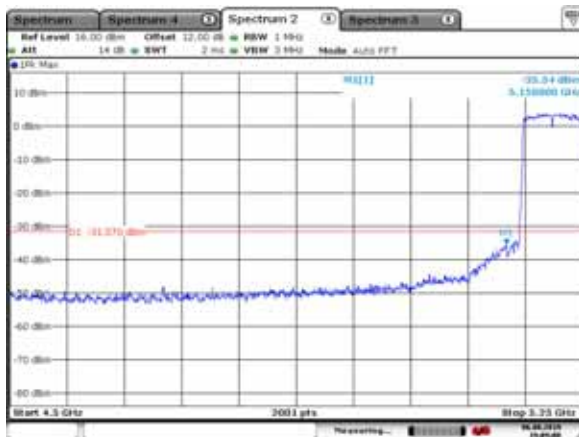
Date: 15. JUL. 2019 05:06:13

5210MHz with SISO



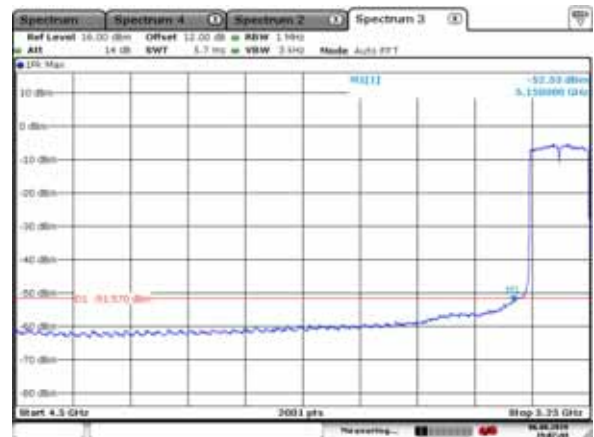
Date: 15. JUL. 2019 05:21:24

5210MHz with CDD



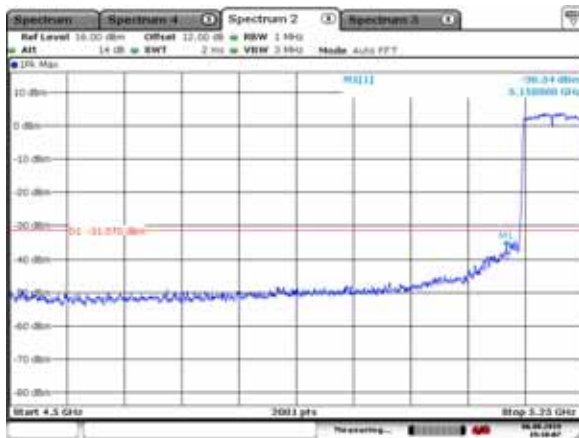
Date: 6. JUN. 2023 19:59:59

5210MHz with CDD



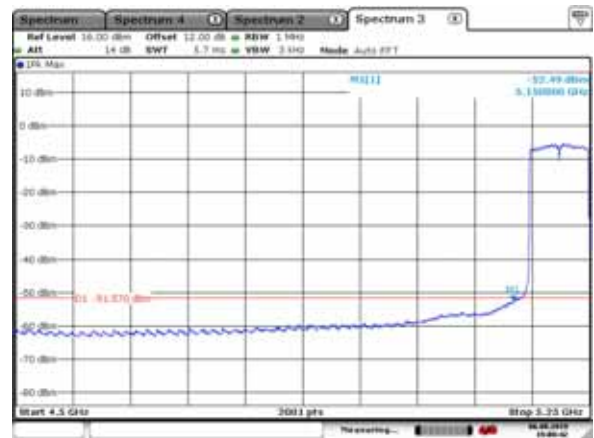
Date: 6. JUN. 2023 19:57:55

5210MHz with Beamforming



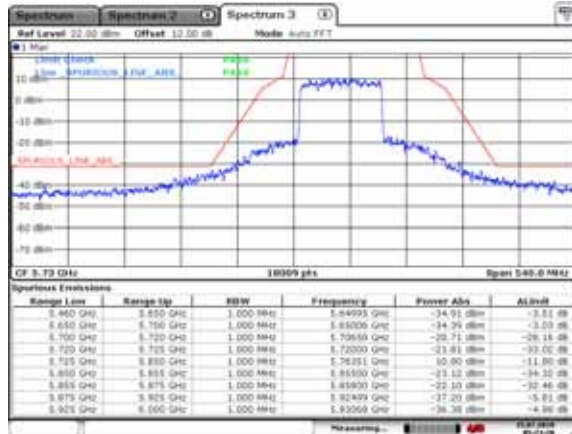
Date: 6. JUN. 2023 19:12:57

5210MHz with Beamforming



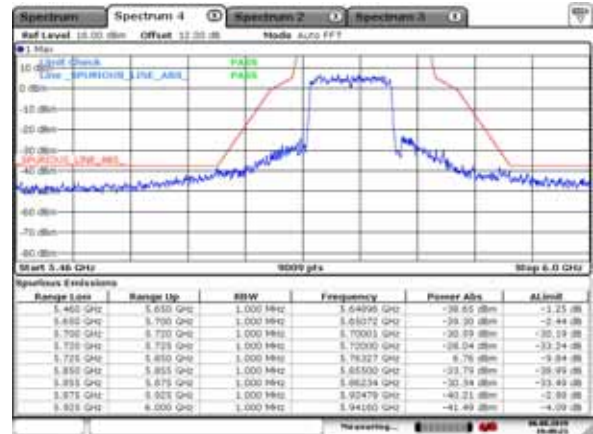
Date: 6. JUN. 2023 19:10:42

## 5775MHz with SISO



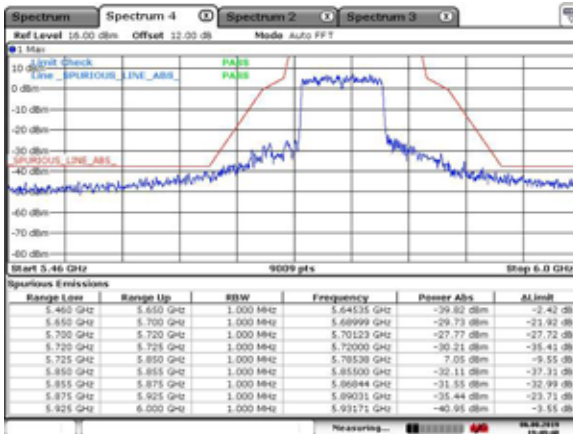
Date: 15. JUL. 2019 05:23:20

## 5775MHz with CDD



Date: 6. JUL. 2019 19:09:11

## 5775MHz with Beamforming



Date: 6. JUL. 2019 19:09:09

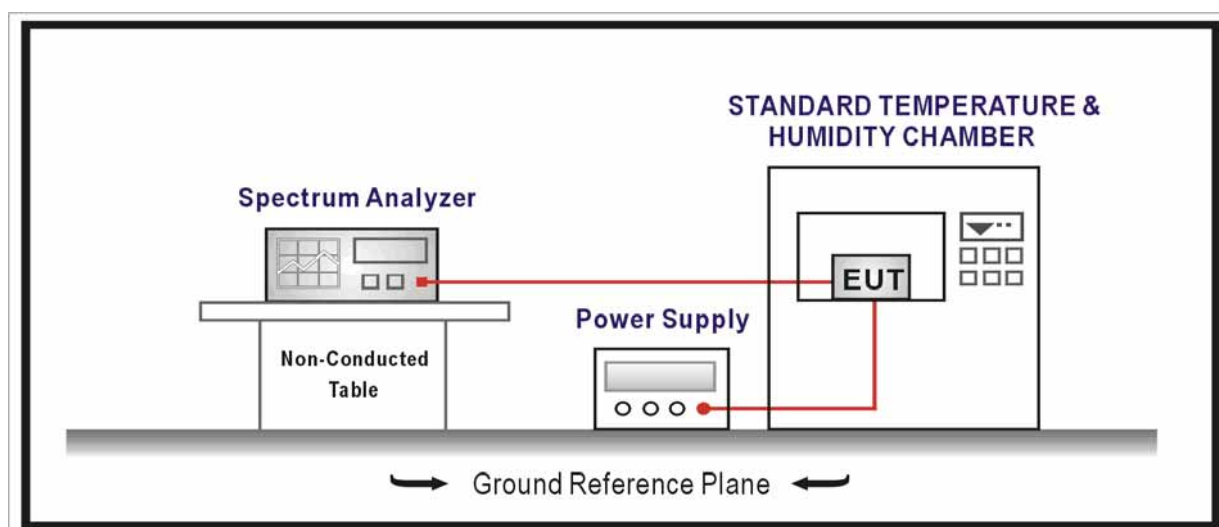
## 10. Frequency Stability

### 10.1. Test Equipment

| Frequency Stability / TR-7                  |              |              |              |            |               |
|---------------------------------------------|--------------|--------------|--------------|------------|---------------|
| Instrument                                  | Manufacturer | Type No.     | Serial No.   | Cal. Date  | Cal. Due Date |
| Spectrum Analyzer                           | Agilent      | N9010A       | MY48030494   | 2019.02.04 | 2020.02.03    |
| EXA Spectrum Analyzer                       | Keysight     | N9010A       | MY55370495   | 2019.04.09 | 2020.04.08    |
| MXA Signal Analyzer                         | Keysight     | N9020A       | MY56060147   | 2019.04.09 | 2020.04.08    |
| AC Power Supply                             | IDRC         | CF-500TP     | 979422       | 2018.09.16 | 2019.09.15    |
| DC Power Supply                             | IDRC         | CD-035-020PR | 977272       | 2018.09.16 | 2019.09.15    |
| Programmable Temperature & Humidity Chamber | Gaoyu        | TH-1P-B      | WIT-05121302 | 2019.01.04 | 2020.01.03    |
| Temperature/Humidity Meter                  | zhichen      | ZC1-2        | TR7-TH       | 2019.04.10 | 2020.04.09    |

Note: All equipment are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

### 10.2. Test Setup



### 10.3. Limit

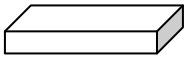
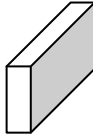
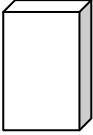
| Frequency Stability Limit           |                                                                                                                                            |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| UNII Devices                        |                                                                                                                                            |
| <input checked="" type="checkbox"/> | In-band emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.    |
| IEEE Std. 802.11n-2009              |                                                                                                                                            |
| <input checked="" type="checkbox"/> | The transmitter center frequency tolerance shall be $\pm 20$ ppm maximum for the 5 GHz band and $\pm 25$ ppm maximum for the 2.4 GHz band. |



## 10.4. Test Procedure

| Frequency Stability Test Method     |                                     |             |         |                                                         |
|-------------------------------------|-------------------------------------|-------------|---------|---------------------------------------------------------|
|                                     | References Rule                     |             | Chapter | Description                                             |
| <input checked="" type="checkbox"/> | ANSI C63.10                         |             | 6.8     | Frequency stability tests                               |
|                                     | <input checked="" type="checkbox"/> | ANSI C63.10 | 6.8.1   | Frequency stability with respect to ambient temperature |
|                                     | <input checked="" type="checkbox"/> | ANSI C63.10 | 6.8.2   | Frequency stability when varying supply voltage         |

**10.5. EUT test Axis definition**

| Item            | Frequency Stability                 |                                                                                      |                                                                                      |                                                                                      |         |
|-----------------|-------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------|
| Device Category | <input checked="" type="checkbox"/> | Indoor use                                                                           |                                                                                      |                                                                                      |         |
|                 | <input type="checkbox"/>            | Outdoor use                                                                          |                                                                                      |                                                                                      |         |
|                 | <input type="checkbox"/>            | Fix position use                                                                     |                                                                                      |                                                                                      |         |
|                 | <input type="checkbox"/>            | Client use                                                                           |                                                                                      |                                                                                      |         |
| Test mode       | Mode 1-9                            |                                                                                      |                                                                                      |                                                                                      |         |
| Test method     | <input type="checkbox"/>            | Radiated                                                                             |                                                                                      |                                                                                      |         |
|                 |                                     | X Axis                                                                               | Y Axis                                                                               | Z Axis                                                                               |         |
|                 |                                     |     |  |  |         |
|                 |                                     | Worst Axis <input type="checkbox"/>                                                  | Worst Axis <input type="checkbox"/>                                                  | Worst Axis <input type="checkbox"/>                                                  |         |
|                 | <input checked="" type="checkbox"/> | Conducted                                                                            |                                                                                      |                                                                                      |         |
|                 | <input checked="" type="checkbox"/> | Chain 1                                                                              |                                                                                      |                                                                                      |         |
|                 |                                     |  |                                                                                      |                                                                                      |         |
|                 | <input checked="" type="checkbox"/> | Chain 1                                                                              | Chain 2                                                                              |                                                                                      |         |
|                 |                                     |  |                                                                                      |                                                                                      |         |
|                 | <input type="checkbox"/>            | Chain 1                                                                              | Chain 2                                                                              | Chain 3                                                                              |         |
|                 |                                     |  |                                                                                      |                                                                                      |         |
|                 | <input type="checkbox"/>            | Chain 1                                                                              | Chain 2                                                                              | Chain 3                                                                              | Chain 4 |
|                 |                                     |  |                                                                                      |                                                                                      |         |

## 10.6. Test Result

|              |                         |               |                |
|--------------|-------------------------|---------------|----------------|
| Product Name | : Wireless Access Point | Power         | : AC 120V/60Hz |
| Test Mode    | : Carrier Wave          | Test Site     | : TR-7         |
| Test Date    | : 2019.08.05            | Test Engineer | : Simon        |

Frequency Stability under Temperature at 0min

| Temperature Interval (°C) | Test Frequency (MHz) | Deviation (Hz) | ppm    | Limit |
|---------------------------|----------------------|----------------|--------|-------|
| -30                       | 5220.000             | 102            | 0.020  | ±20   |
| -20                       | 5220.000             | -95            | -0.018 | ±20   |
| -10                       | 5220.000             | -79            | -0.015 | ±20   |
| 0                         | 5220.000             | 124            | 0.024  | ±20   |
| 10                        | 5220.000             | 139            | 0.027  | ±20   |
| 20                        | 5220.000             | 164            | 0.031  | ±20   |
| 30                        | 5220.000             | 113            | 0.022  | ±20   |
| 40                        | 5220.000             | -95            | -0.018 | ±20   |
| 50                        | 5220.000             | -94            | -0.018 | ±20   |

## Frequency Stability under Temperature at 2min

| Temperature Interval (°C) | Test Frequency (MHz) | Deviation (Hz) | ppm    | Limit    |
|---------------------------|----------------------|----------------|--------|----------|
| -30                       | 5220.000             | -119           | -0.023 | $\pm 20$ |
| -20                       | 5220.000             | -146           | -0.028 | $\pm 20$ |
| -10                       | 5220.000             | -86            | -0.016 | $\pm 20$ |
| 0                         | 5220.000             | 81             | 0.016  | $\pm 20$ |
| 10                        | 5220.000             | 146            | 0.028  | $\pm 20$ |
| 20                        | 5220.000             | -104           | -0.020 | $\pm 20$ |
| 30                        | 5220.000             | -160           | -0.031 | $\pm 20$ |
| 40                        | 5220.000             | 97             | 0.019  | $\pm 20$ |
| 50                        | 5220.000             | -143           | -0.027 | $\pm 20$ |

## Frequency Stability under Temperature at 5min

| Temperature Interval (°C) | Test Frequency (MHz) | Deviation (Hz) | ppm    | Limit |
|---------------------------|----------------------|----------------|--------|-------|
| -30                       | 5220.000             | -129           | -0.025 | ±20   |
| -20                       | 5220.000             | -122           | -0.023 | ±20   |
| -10                       | 5220.000             | 107            | 0.020  | ±20   |
| 0                         | 5220.000             | -88            | -0.017 | ±20   |
| 10                        | 5220.000             | 113            | 0.022  | ±20   |
| 20                        | 5220.000             | 179            | 0.034  | ±20   |
| 30                        | 5220.000             | 161            | 0.031  | ±20   |
| 40                        | 5220.000             | -95            | -0.018 | ±20   |
| 50                        | 5220.000             | -91            | -0.017 | ±20   |

## Frequency Stability under Temperature at 10min

| Temperature Interval (°C) | Test Frequency (MHz) | Deviation (Hz) | ppm    | Limit |
|---------------------------|----------------------|----------------|--------|-------|
| -30                       | 5220.000             | -117           | -0.022 | ±20   |
| -20                       | 5220.000             | 188            | 0.036  | ±20   |
| -10                       | 5220.000             | 145            | 0.028  | ±20   |
| 0                         | 5220.000             | -204           | -0.039 | ±20   |
| 10                        | 5220.000             | -112           | -0.021 | ±20   |
| 20                        | 5220.000             | -110           | -0.021 | ±20   |
| 30                        | 5220.000             | -106           | -0.020 | ±20   |
| 40                        | 5220.000             | 97             | 0.019  | ±20   |
| 50                        | 5220.000             | -86            | -0.016 | ±20   |

## Frequency Stability under Voltage

| AC Voltage (V) | Test Frequency (MHz) | Deviation (Hz) | ppm    | Limit |
|----------------|----------------------|----------------|--------|-------|
| 102            | 5220.000             | -143           | -0.027 | ±20   |
| 120            | 5220.000             | 171            | 0.033  | ±20   |
| 138            | 5220.000             | 134            | 0.026  | ±20   |

## 11. Antenna Requirement

### 11.1. Limit

| Antenna Requirement Limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <p>An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.</p> |  |

### 11.2. Antenna Connector Construction

| Antenna Connector Construction                                                             |                                                                  |
|--------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| <input checked="" type="checkbox"/>                                                        | The use of a permanently attached antenna                        |
| <input type="checkbox"/>                                                                   | The antenna use of a unique coupling to the intentional radiator |
| <input type="checkbox"/>                                                                   | The use of a nonstandard antenna jack or electrical connector    |
| Please refer to the attached document "Internal Photograph" to show the antenna connector. |                                                                  |

\_\_\_\_\_ The End \_\_\_\_\_