



# TEST REPORT

Applicant Name : Grandstream Networks, Inc.  
Address : 126 Brookline Ave, 3rd Floor Boston, MA 02215, USA  
Manufacturer Name : Grandstream Networks, Inc.  
Address : 126 Brookline Ave, 3rd Floor Boston, MA 02215, USA  
Report Number : SZNS220124-03493E-RF-00B  
FCC ID: YZZGWN7664LR

## Test Standard (s)

FCC PART 15.407

## Sample Description

Product Type: High-Performance Outdoor Long-Range Wi-Fi 6 Access Point  
Model No.: GWN7664LR  
Multiple Model(s) No.: N/A  
Trade Mark: GRANDSTREAM  
Date Received: 2022/01/24  
Report Date: 2022/07/06

|              |       |
|--------------|-------|
| Test Result: | Pass* |
|--------------|-------|

\* In the configuration tested, the EUT complied with the standards above.

**Prepared and Checked By:**

Ting Lü  
EMC Engineer

**Approved By:**

Candy Li  
EMC Engineer

Note: This report may contain data that are not covered by the A2LA accreditation and are marked with an asterisk "★".

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## GENERAL INFORMATION

### Product Description for Equipment under Test (EUT)

|  |  |
|--|--|
| Frequency Range                        | 5G Wi-Fi: 5150-5250MHz; 5250-5350MHz; 5470-5725MHz; 5725-5850MHz   |
| Mode                                   | 802.11a/n20/n40/ac20/ac40/ac80/ax20/ax40/ax80  |
| Maximum Conducted Average Output Power | 5150-5250 MHz:<br>802.11a: 22.52dBm, 802.11n20:17.11dBm, 802.11n40: 17.14dBm<br>802.11ac20: 17.16dBm, 802.11ac40: 17.19dBm, 802.11ac80: 17.19dBm<br>802.11ax20: 17.18dBm, 802.11ax40: 17.01dBm, 802.11ax80: 17.02dBm<br>5250-5350MHz:<br>802.11a: 18.62dBm, 802.11n20:17.49dBm, 802.11n40: 17.49dBm<br>802.11ac20: 17.49dBm, 802.11ac40: 17.49dBm, 802.11ac80: 17.49dBm<br>802.11ax20: 17.49dBm, 802.11ax40: 17.45dBm, 802.11ax80: 17.46dBm<br>5470-5725MHz:<br>802.11a: 18.89dBm, 802.11n20:17.47dBm, 802.11n40: 17.42dBm<br>802.11ac20: 17.48dBm, 802.11ac40: 17.43dBm, 802.11ac80: 17.11dBm<br>802.11ax20: 17.46dBm, 802.11ax40: 17.35dBm, 802.11ax80: 17.48dBm<br>5725-5850 MHz:<br>802.11a: 23.59dBm, 802.11n20:23.49dBm, 802.11n40: 23.70dBm<br>802.11ac20: 23.66dBm, 802.11ac40: 23.65dBm, 802.11ac80: 23.35dBm<br>802.11ax20: 23.85dBm, 802.11ax40: 23.08dBm, 802.11ax80: 20.95dBm |
| Modulation Technique                   | OFDM, OFDMA  |
| Antenna Specification*                 | 3.5 dBi (It is provided by the applicant)  |
| TPC                                    | Not support  |
| Beam-forming                           | Support(only for n/ac/ax mode)   |
| Voltage Range                          | DC 48V from POE  |
| Sample serial number                   | CE&RE: SZNS220124-03493E-RF-S2<br>RF Conducted: SZNS220124-03493E-RF-S1<br>(Assigned by ATC)   |
| Sample/EUT Status                      | Good condition   |

### Objective

This test report is in accordance with Part 2-Subpart J, Part 15-Subparts A and E of the Federal Communication Commissions rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart E, section 15.203, 15.205, 15.207, 15.209 and 15.407 rules.

### Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices. And KDB789033 D02 General U-NII Test Procedures New Rules v02r01.

All emissions measurement was performed at Shenzhen Accurate Technology Co., Ltd. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Each test item follows test standards and with no deviation.

## Measurement Uncertainty

| Parameter                          |                | Uncertainty |
|------------------------------------|----------------|-------------|
| Occupied Channel Bandwidth         |                | 5%          |
| RF output power, conducted         |                | 0.73dB      |
| Unwanted Emission, conducted       |                | 1.6dB       |
| AC Power Lines Conducted Emissions |                | 2.72dB      |
| Emissions,<br>Radiated             | 30MHz - 1GHz   | 4.28dB      |
|                                    | 1GHz- 18GHz    | 4.98dB      |
|                                    | 18GHz- 26.5GHz | 5.06dB      |
|                                    | 26.5GHz- 40GHz | 4.72dB      |
| Temperature                        |                | 1°C         |
| Humidity                           |                | 6%          |
| Supply voltages                    |                | 0.4%        |

*Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor  $K$  with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.*

## Test Facility

The test site used by Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the 1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China.

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 708358, the FCC Designation No.: CN1189. Accredited by American Association for Laboratory Accreditation (A2LA) The Certificate Number is 429 7.01.

Listed by Innovation, Science and Economic Development Canada (ISED), the Registration Number is 5077A.

## SYSTEM TEST CONFIGURATION

### Description of Test Configuration

For 5150-5250MHz Band, 7 channels are provided to testing:

| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|
| 36      | 5180            | 44      | 5220            |
| 38      | 5190            | 46      | 5230            |
| 40      | 5200            | 48      | 5240            |
| 42      | 5210            | /       | /               |

For 802.11a, 802.11n20/ac20/ax20 mode: channel 36, 40, 48 were tested; For 802.11n40/ac40/ax40 mode: channel 38, 46 were tested. For 802.11ac80/ax80 mode, channel 42 was tested.

For 5250-5350MHz Band, 7 channels are provided to testing:

| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|
| 52      | 5260            | 60      | 5300            |
| 54      | 5270            | 62      | 5310            |
| 56      | 5280            | 64      | 5320            |
| 58      | 5290            | /       | /               |

For 802.11a, 802.11n20/ac20/ax20 mode: channel 52, 56, 64 were tested; For 802.11n40/ac40/ax40 mode: channel 54, 62 were tested. For 802.11ac80/ax80 mode, channel 58 was tested.

For 5470-5725MHz Band, 21 channels are provided to testing:

| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|
| 100     | 5500            | 124     | 5620            |
| 102     | 5510            | 126     | 5630            |
| 104     | 5520            | 128     | 5640            |
| 106     | 5530            | 132     | 5660            |
| 108     | 5540            | 134     | 5670            |
| 110     | 5550            | 136     | 5680            |
| 112     | 5560            | 138     | 5690            |
| 116     | 5580            | 140     | 5700            |
| 118     | 5590            | 142     | 5710            |
| 120     | 5600            | 144     | 5720            |
| 122     | 5610            | /       | /               |

For 802.11a, 802.11n20/ac20/ax20 mode: channel 100, 116, 144 were tested; For 802.11n40/ac40/ax40 mode: channel 102, 110, 142 were tested. For 802.11ac80/ax80 mode, channel 106, 122, 138 was tested.

For 5725-5850MHz Band, 8 channels are provided to testing:

| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|
| 149     | 5745            | 157     | 5785            |
| 151     | 5755            | 159     | 5795            |
| 153     | 5765            | 161     | 5805            |
| 155     | 5775            | 165     | 5825            |

For 802.11a, 802.11n20/ac20/ax20 mode: channel 149, 157, 165 were tested; For 802.11n40/ac40/ax40 mode: channel 151, 159 were tested. For 802.11ac80/ax80 mode, channel 155 was tested.

### EUT Exercise Software

“QRCT 4”\* exercise software was used. The software and power level was provided by the manufacturer. The worst case was performed under:

| U-NII          | Test Mode  | Data rate | RU Size | RU Index | Power Level* |                |              |
|----------------|------------|-----------|---------|----------|--------------|----------------|--------------|
|                |            |           |         |          | Low Channel  | Middle Channel | High Channel |
| 5150 – 5250MHz | 802.11a    | 6 Mbps    | NA      | NA       | 18           | 18             | 18           |
|                | 802.11n20  | MCS0      | NA      | NA       | 15           | 15             | 14           |
|                | 802.11n40  | MCS0      | NA      | NA       | 15           | /              | 14           |
|                | 802.11ac20 | MCS0      | NA      | NA       | 15           | 15             | 14           |
|                | 802.11ac40 | MCS0      | NA      | NA       | 15           | /              | 14           |
|                | 802.11ac80 | MCS0      | NA      | NA       | /            | 15             | /            |
|                | 11AX20     | MCS0      | 26Tone  | RU0      | 15           | 14             | 15           |
|                |            |           | 52Tone  | RU37     | 15           | 15             | 15           |
|                |            |           | 106Tone | RU53     | 15           | 15             | 15           |
|                |            |           | 242Tone | RU61     | 15           | 15             | 15           |
|                | 11AX40     | MCS0      | 26Tone  | RU0      | 13           | /              | 13           |
|                |            |           | 52Tone  | RU37     | 13           | /              | 13           |
|                |            |           | 106Tone | RU53     | 14           | /              | 14           |
|                |            |           | 242Tone | RU61     | 14           | /              | 14           |
|                |            |           | 484Tone | RU65     | 15           | /              | 15           |
|                | 11AX80     | MCS0      | 26Tone  | RU0      | /            | 13             | /            |
|                |            |           | 52Tone  | RU37     | /            | 14             | /            |
|                |            |           | 106Tone | RU53     | /            | 14             | /            |
|                |            |           | 242Tone | RU61     | /            | 15             | /            |
|                |            |           | 484Tone | RU65     | /            | 15             | /            |
|                |            |           | 996Tone | RU67     | /            | 15             | /            |

| U-NII          | Test Mode  | Data rate | RU Size | RU Index | Power Level* |                |              |
|----------------|------------|-----------|---------|----------|--------------|----------------|--------------|
|                |            |           |         |          | Low Channel  | Middle Channel | High Channel |
| 5250 – 5350MHz | 802.11a    | 6 Mbps    | NA      | NA       | 14           | 14             | 14           |
|                | 802.11n20  | MCS0      | NA      | NA       | 13           | 13             | 13           |
|                | 802.11n40  | MCS0      | NA      | NA       | 13           | /              | 13           |
|                | 802.11ac20 | MCS0      | NA      | NA       | 13           | 13             | 13           |
|                | 802.11ac40 | MCS0      | NA      | NA       | 13           | /              | 13           |
|                | 802.11ac80 | MCS0      | NA      | NA       | /            | 12             | /            |
|                | 11AX20     | MCS0      | 26Tone  | RU0      | 10           | 10             | 10           |
|                |            |           | 52Tone  | RU37     | 12           | 12             | 12           |
|                |            |           | 106Tone | RU53     | 13           | 13             | 13           |
|                |            |           | 242Tone | RU61     | 14           | 14             | 14           |
|                | 11AX40     | MCS0      | 26Tone  | RU0      | 11           | /              | 11           |
|                |            |           | 52Tone  | RU37     | 12           | /              | 12           |
|                |            |           | 106Tone | RU53     | 13           | /              | 13           |
|                |            |           | 242Tone | RU61     | 14           | /              | 14           |
|                |            |           | 484Tone | RU65     | 14           | /              | 14           |
|                | 11AX80     | MCS0      | 26Tone  | RU0      | /            | 10             | /            |
|                |            |           | 52Tone  | RU37     | /            | 12             | /            |
|                |            |           | 106Tone | RU53     | /            | 14             | /            |
|                |            |           | 242Tone | RU61     | /            | 14             | /            |
|                |            |           | 484Tone | RU65     | /            | 14             | /            |
|                |            |           | 996Tone | RU67     | /            | 14             | /            |

| U-NII        | Test Mode  | Data rate | RU Size | RU Index | Power Level |                |              |
|--------------|------------|-----------|---------|----------|-------------|----------------|--------------|
|              |            |           |         |          | Low Channel | Middle Channel | High Channel |
| 5470-5725MHz | 802.11a    | 6 Mbps    | NA      | NA       | 17          | 17             | 17           |
|              | 802.11n20  | MCS0      | NA      | NA       | 16          | 16             | 16           |
|              | 802.11n40  | MCS0      | NA      | NA       | 15          | 15             | 15           |
|              | 802.11ac20 | MCS0      | NA      | NA       | 16          | 16             | 16           |
|              | 802.11ac40 | MCS0      | NA      | NA       | 15          | 15             | 15           |
|              | 802.11ac80 | MCS0      | NA      | NA       | 15          | 15             | 15           |
|              | 11AX20     | MCS0      | 26Tone  | RU0      | 11          | 11             | 11*          |
|              |            |           | 52Tone  | RU37     | 13          | 13             | 13*          |
|              |            |           | 106Tone | RU53     | 14          | 14             | 14*          |
|              |            |           | 242Tone | RU61     | 14          | 14             | 14*          |
|              | 11AX40     | MCS0      | 26Tone  | RU0      | 11          | 11             | 11*          |
|              |            |           | 52Tone  | RU37     | 12          | 13             | 13*          |
|              |            |           | 106Tone | RU53     | 13          | 13             | 13*          |
|              |            |           | 242Tone | RU61     | 14          | 14             | 14*          |
|              | 11AX80     | MCS0      | 484Tone | RU65     | 14          | 14             | 14*          |
|              |            |           | 26Tone  | RU0      | 10          | 10             | 11*          |
|              |            |           | 52Tone  | RU37     | 12          | 12             | 12*          |
|              |            |           | 106Tone | RU53     | 14          | 14             | 14*          |
|              |            |           | 242Tone | RU61     | 14          | 14             | 15*          |
|              | 11AX80     | MCS0      | 484Tone | RU65     | 14          | 14             | 15*          |
|              |            |           | 996Tone | RU67     | 14          | 14             | 15*          |

Note: \*: For 5470-5725MHz Band, the max RU index is the worst case for high channel which was selected to test and reported.



| U-NII        | Test Mode  | Data rate | RU Size | RU Index | Power Level |                |              |
|--------------|------------|-----------|---------|----------|-------------|----------------|--------------|
|              |            |           |         |          | Low Channel | Middle Channel | High Channel |
| 5725-5850MHz | 802.11a    | 6 Mbps    | NA      | NA       | 20          | 20             | 20           |
|              | 802.11n20  | MCS0      | NA      | NA       | 20          | 20             | 20           |
|              | 802.11n40  | MCS0      | NA      | NA       | 20          | /              | 20           |
|              | 802.11ac20 | MCS0      | NA      | NA       | 20          | 20             | 20           |
|              | 802.11ac40 | MCS0      | NA      | NA       | 20          | /              | 20           |
|              | 802.11ac80 | MCS0      | NA      | NA       | /           | 20             | /            |
|              | 11AX20     | MCS0      | 26Tone  | RU0      | 20          | 20             | 20           |
|              |            |           | 52Tone  | RU37     | 20          | 20             | 20           |
|              |            |           | 106Tone | RU53     | 20          | 20             | 20           |
|              |            |           | 242Tone | RU61     | 20          | 20             | 20           |
|              | 11AX40     | MCS0      | 26Tone  | RU0      | 20          | /              | 20           |
|              |            |           | 52Tone  | RU37     | 20          | /              | 20           |
|              |            |           | 106Tone | RU53     | 20          | /              | 20           |
|              |            |           | 242Tone | RU61     | 20          | /              | 20           |
|              | 11AX80     | MCS0      | 484Tone | RU65     | 20          | /              | 20           |
|              |            |           | 26Tone  | RU0      | /           | 18             | /            |
|              |            |           | 52Tone  | RU37     | /           | 18             | /            |
|              |            |           | 106Tone | RU53     | /           | 18             | /            |
|              |            |           | 242Tone | RU61     | /           | 18             | /            |
|              |            |           | 484Tone | RU65     | /           | 18             | /            |
|              |            | 996Tone   | RU67    | /        | 18          | /              |              |

The worse-case data rates are determined to be as above for each mode based upon investigations by measuring the output power and PSD across all data rates, bandwidths and modulations.

The device support SISO and MIMO, for n/ac/ax mode, the MIMO mode support beamforming, the SISO/MIMO and beamforming/nonbeamforming modes have same parameter, which was declared by applicant. The MIMO/beamforming was the worst mode which was selected to test.

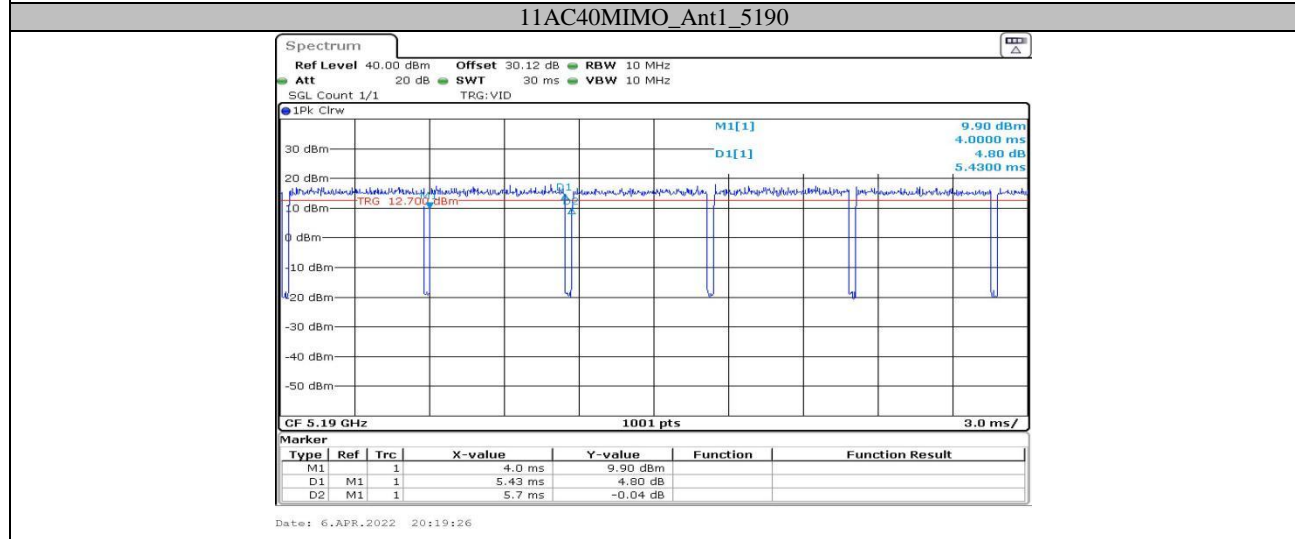
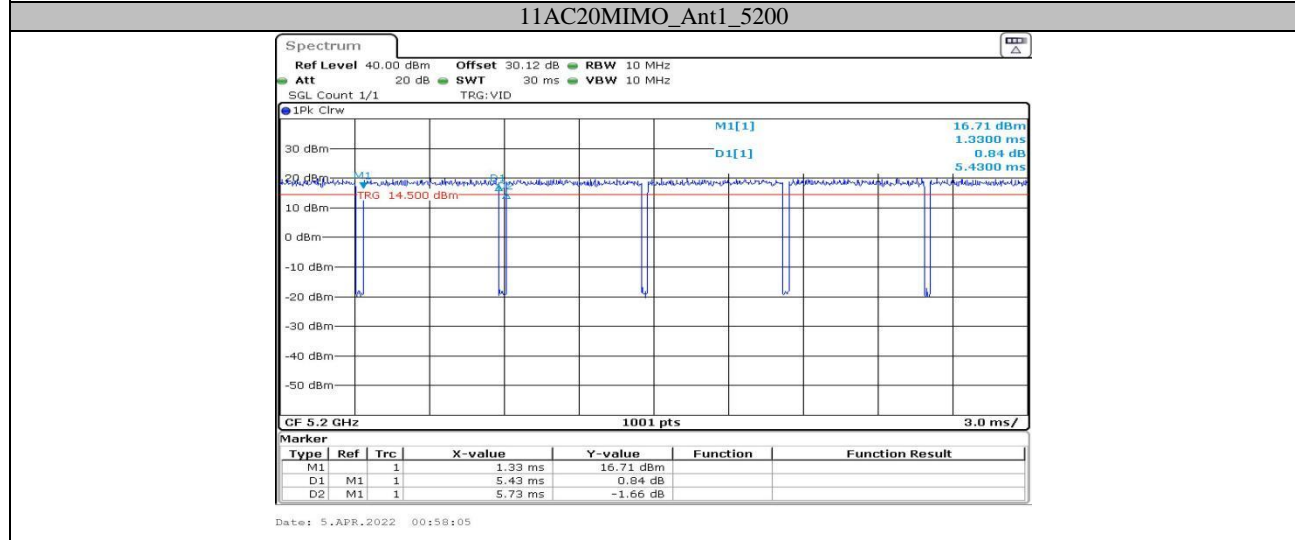
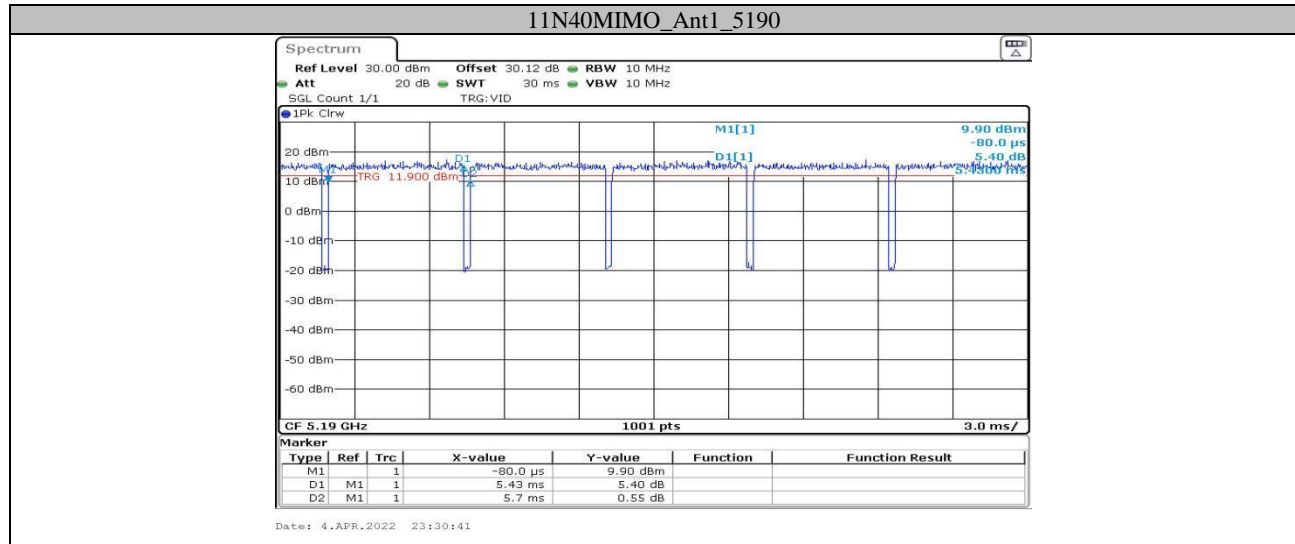
All the antenna ports have the same power level.

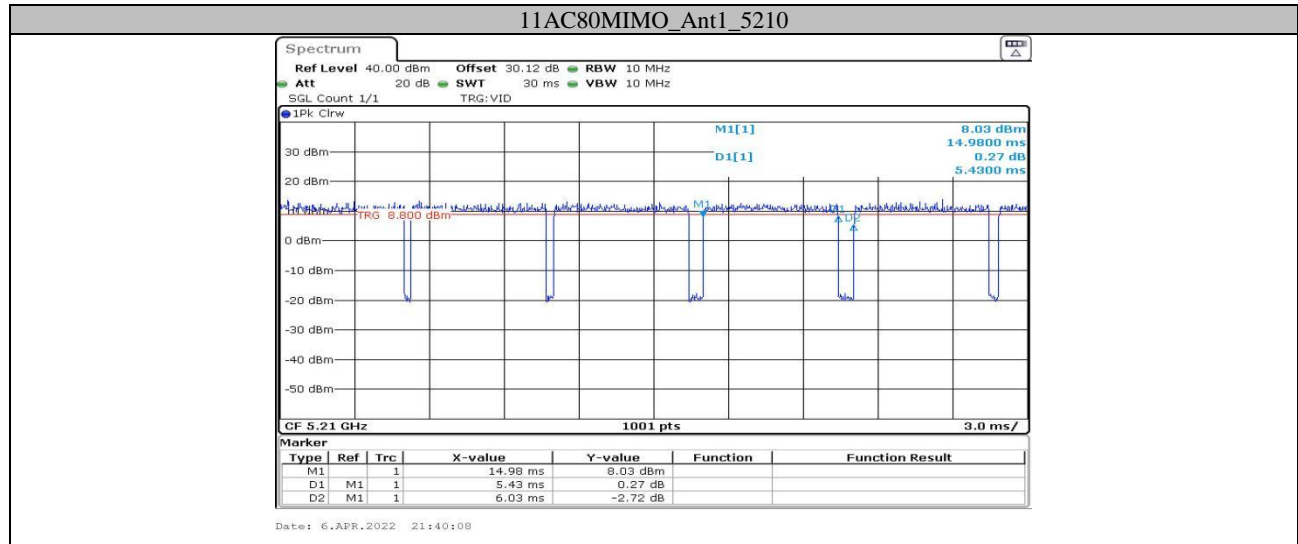
### Duty cycle

| Test Mode  | Antenna | Channel | Transmission Duration [ms] | Transmission Period [ms] | Duty Cycle [%] |
|------------|---------|---------|----------------------------|--------------------------|----------------|
| 11A-CDD    | Ant1    | 5200    | 1.97                       | 2.08                     | 94.71          |
| 11N20MIMO  | Ant1    | 5200    | 5.43                       | 5.73                     | 94.76          |
| 11N40MIMO  | Ant1    | 5190    | 5.43                       | 5.70                     | 95.26          |
| 11AC20MIMO | Ant1    | 5200    | 5.43                       | 5.73                     | 94.76          |
| 11AC40MIMO | Ant1    | 5190    | 5.43                       | 5.70                     | 95.26          |
| 11AC80MIMO | Ant1    | 5210    | 5.43                       | 6.03                     | 90.05          |

### Test Graphs

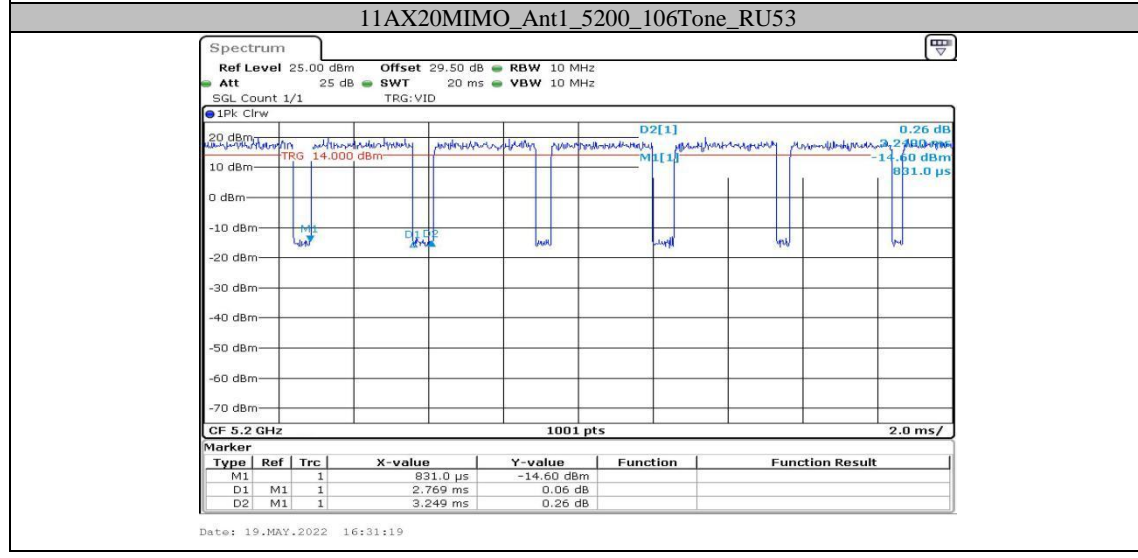
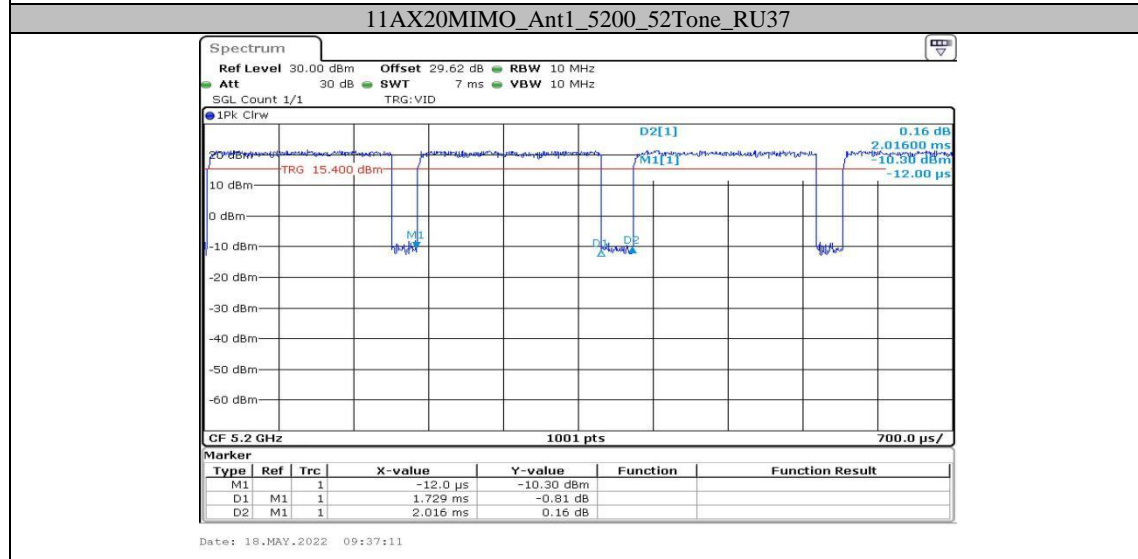
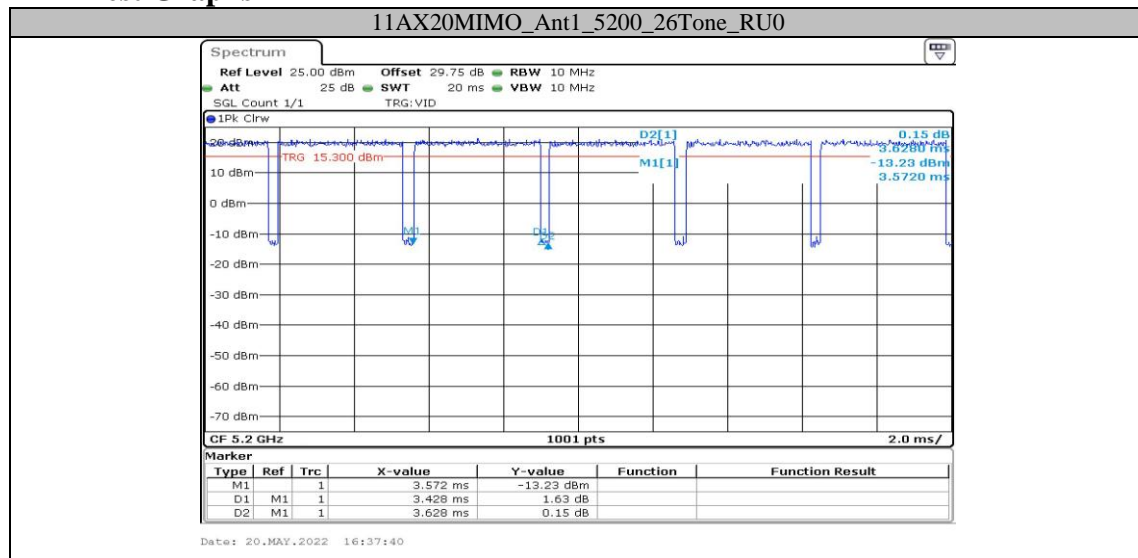


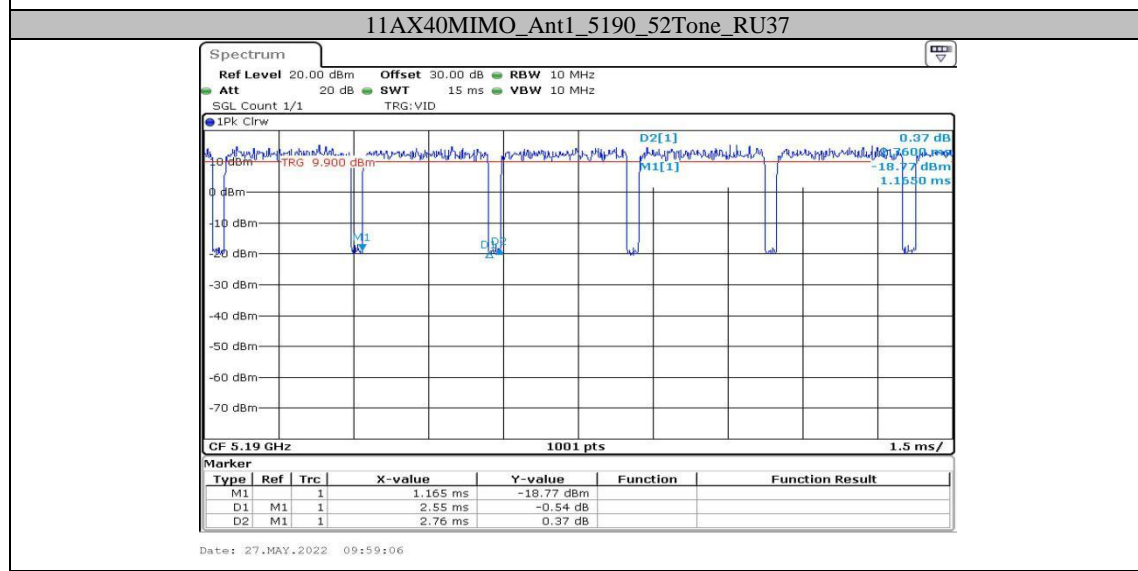
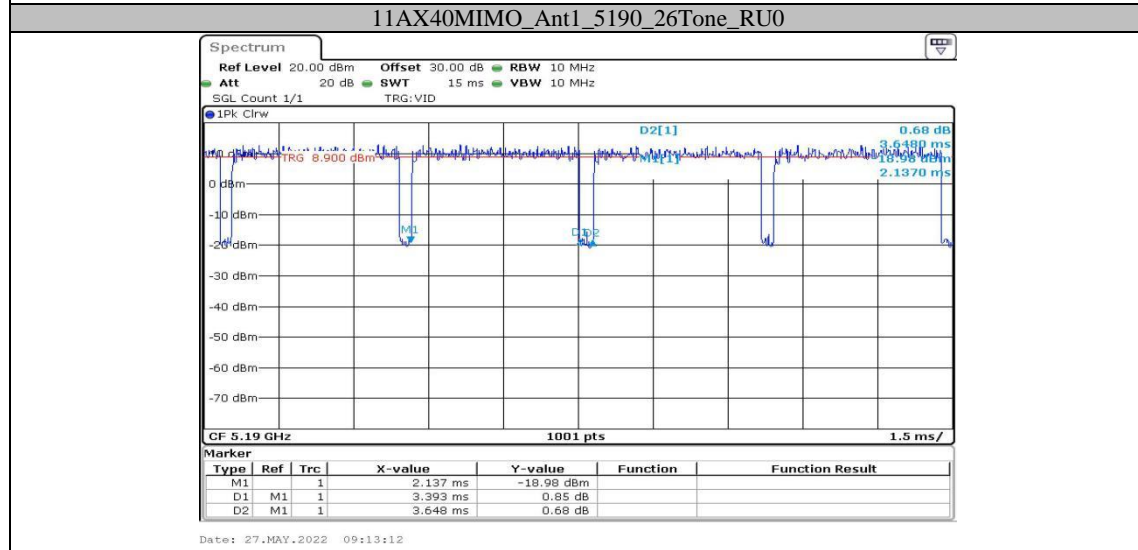
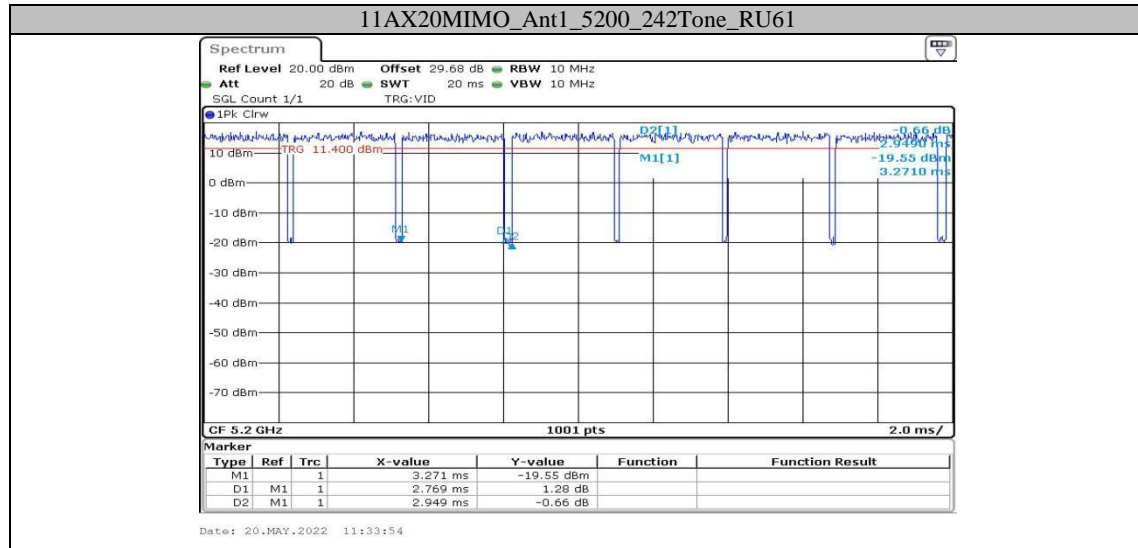


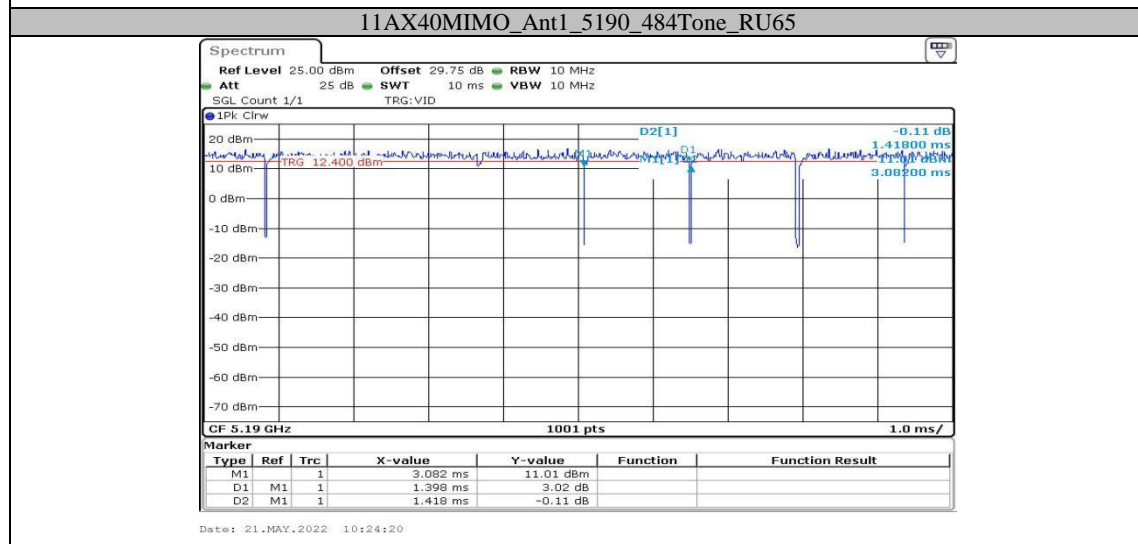
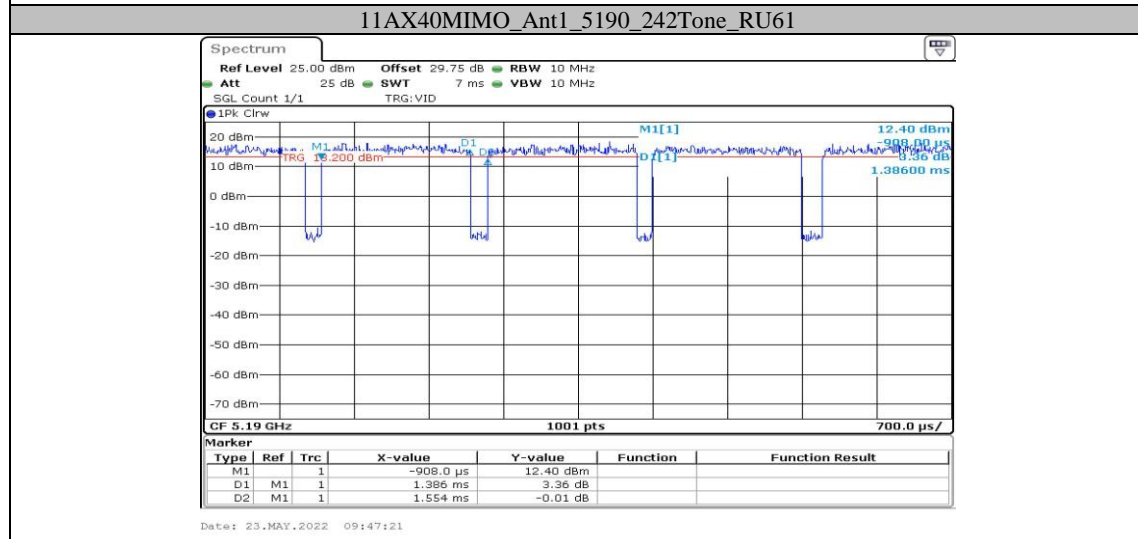
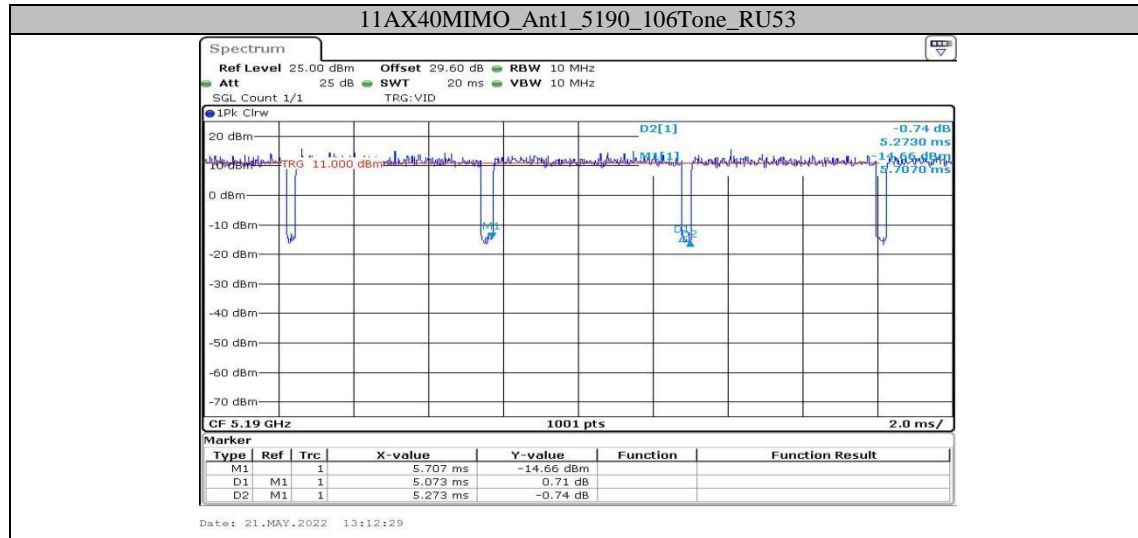


| Test Mode  | Antenna | Channel | RuSize  | RuIndex | Transmission Duration [ms] | Transmission Period [ms] | Duty Cycle [%] |
|------------|---------|---------|---------|---------|----------------------------|--------------------------|----------------|
| 11AX20MIMO | Ant1    | 5200    | 26Tone  | RU0     | 3.43                       | 3.63                     | 94.49          |
|            |         |         | 52Tone  | RU37    | 1.73                       | 2.02                     | 85.64          |
|            |         |         | 106Tone | RU53    | 2.77                       | 3.25                     | 85.23          |
|            |         |         | 242Tone | RU61    | 2.77                       | 2.95                     | 93.90          |
| 11AX40MIMO | Ant1    | 5190    | 26Tone  | RU0     | 3.39                       | 3.65                     | 92.88          |
|            |         |         | 52Tone  | RU37    | 2.55                       | 2.76                     | 92.39          |
|            |         |         | 106Tone | RU53    | 5.07                       | 5.27                     | 96.20          |
|            |         |         | 242Tone | RU61    | 1.39                       | 1.55                     | 89.68          |
| 11AX80MIMO | Ant1    | 5210    | 484Tone | RU65    | 1.40                       | 1.42                     | 98.59          |
|            |         |         | 26Tone  | RU0     | 3.43                       | 3.71                     | 92.45          |
|            |         |         | 52Tone  | RU37    | 5.01                       | 5.29                     | 94.71          |
|            |         |         | 106Tone | RU53    | 0.88                       | 1.10                     | 80.00          |
|            |         |         | 242Tone | RU61    | 1.60                       | 1.91                     | 83.77          |
|            |         |         | 484Tone | RU65    | 5.01                       | 5.21                     | 96.16          |
|            |         |         | 996Tone | RU67    | 5.01                       | 5.21                     | 96.16          |

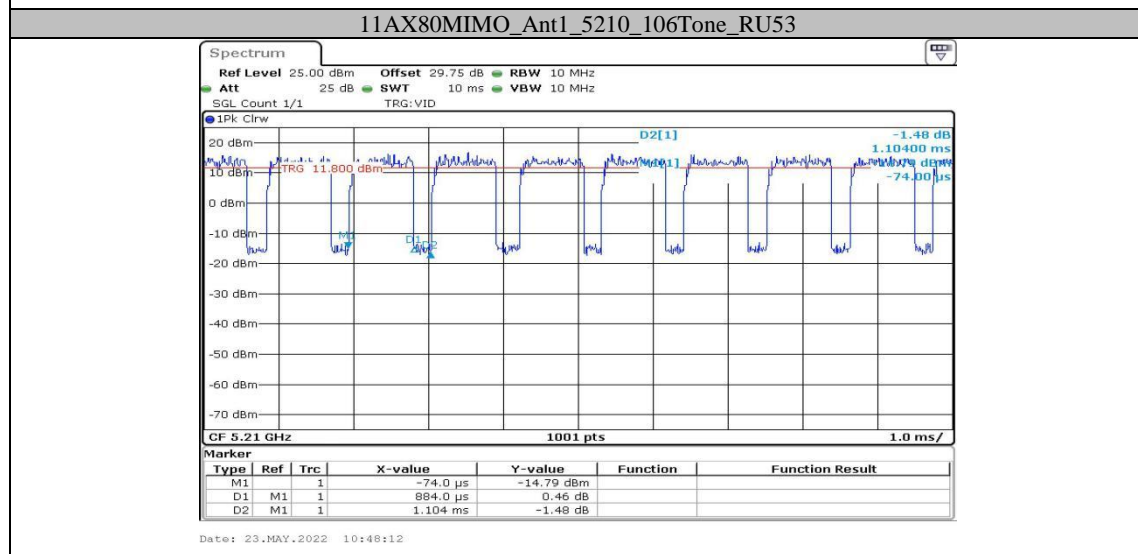
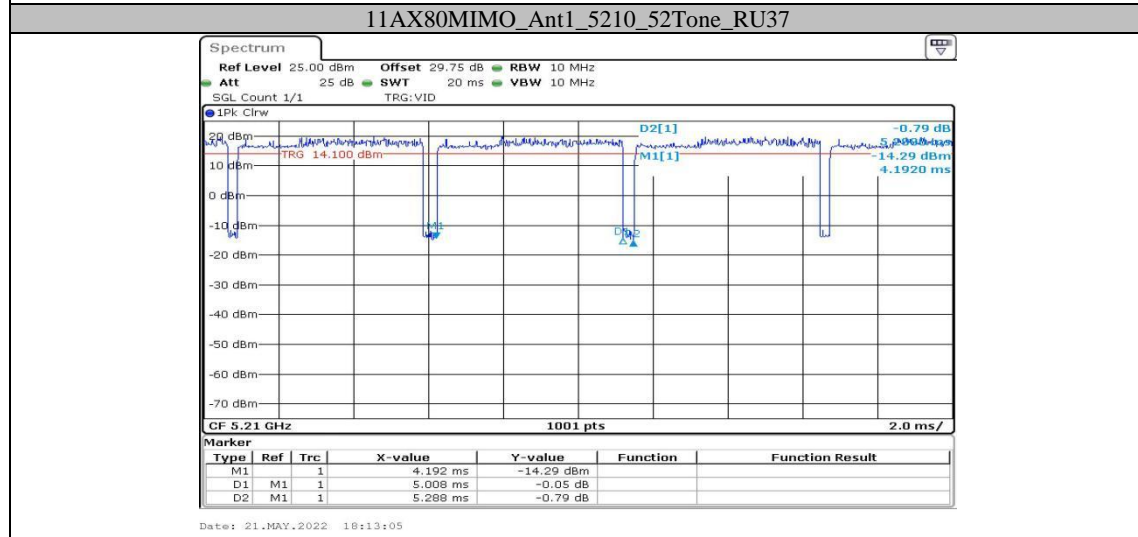
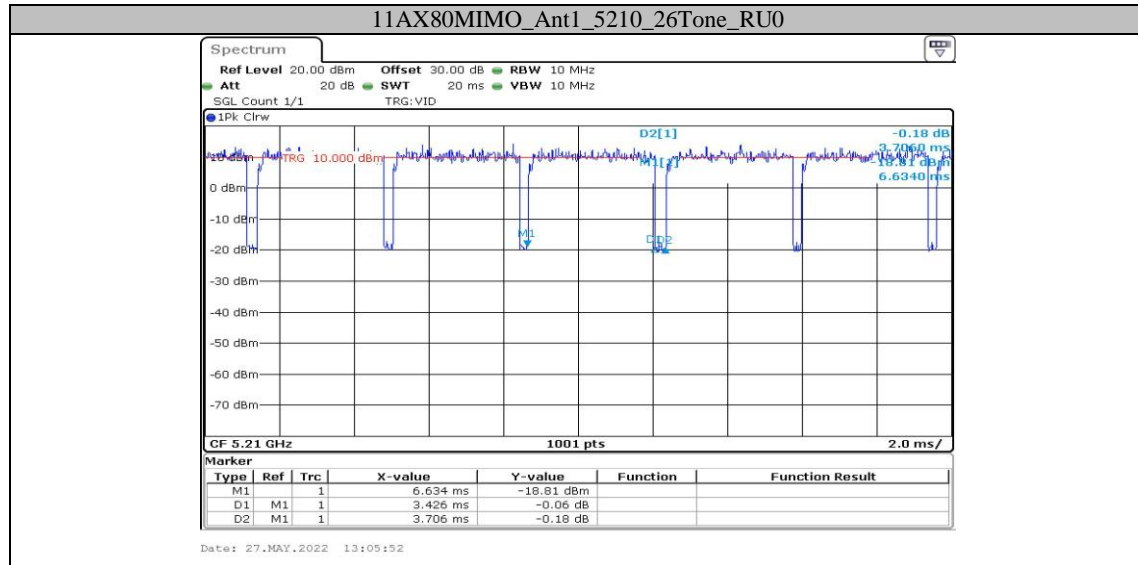
### Test Graphs

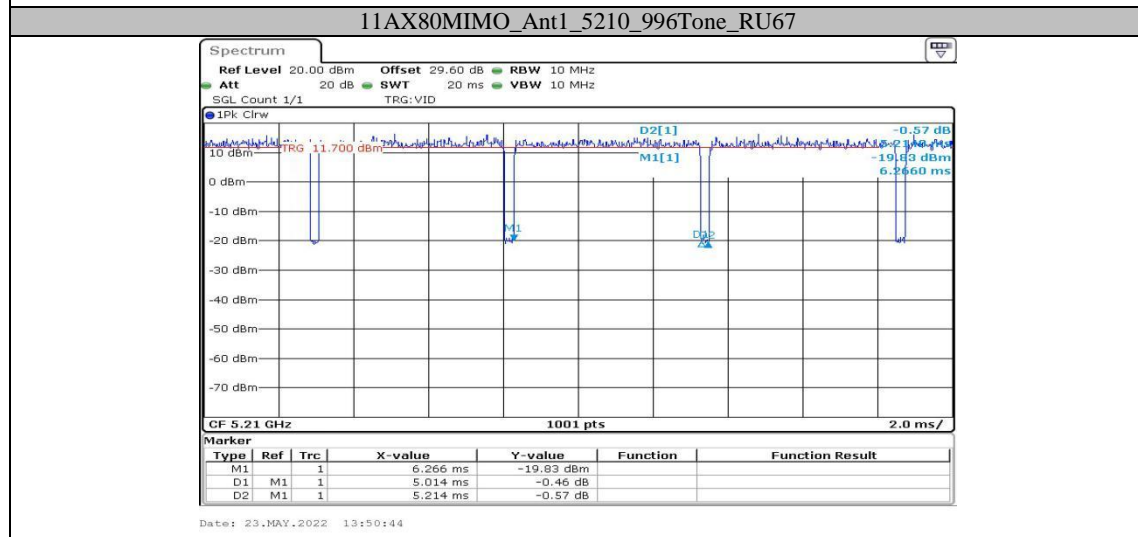
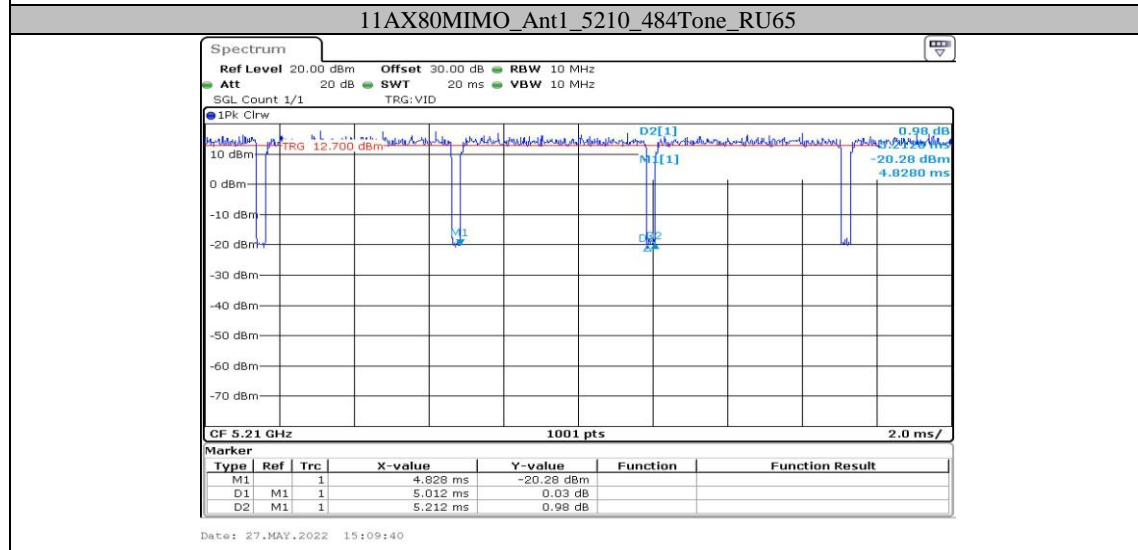
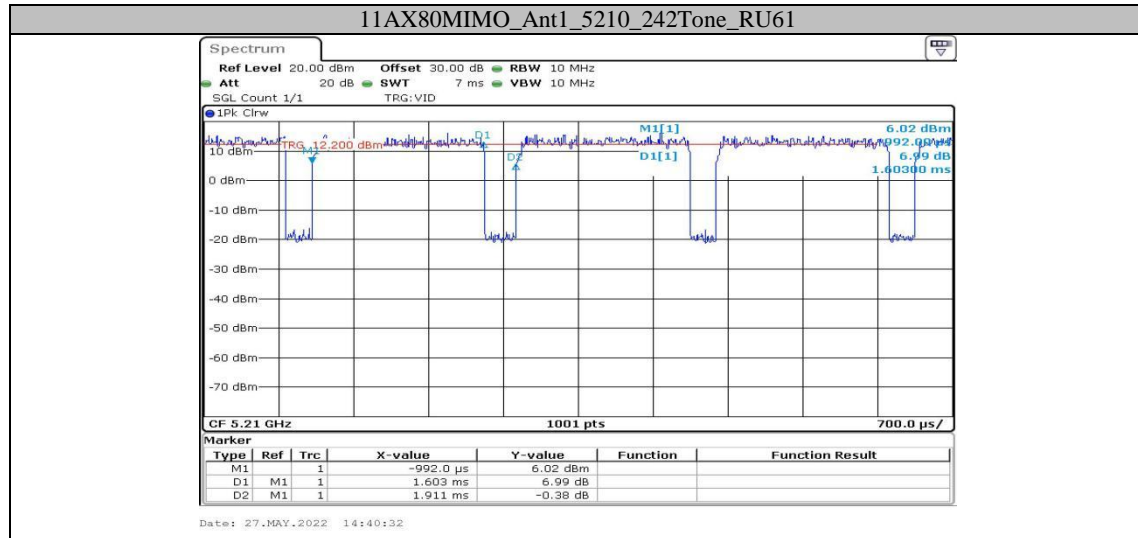












## Equipment Modifications

No modification was made to the EUT tested.

## Support Equipment List and Details

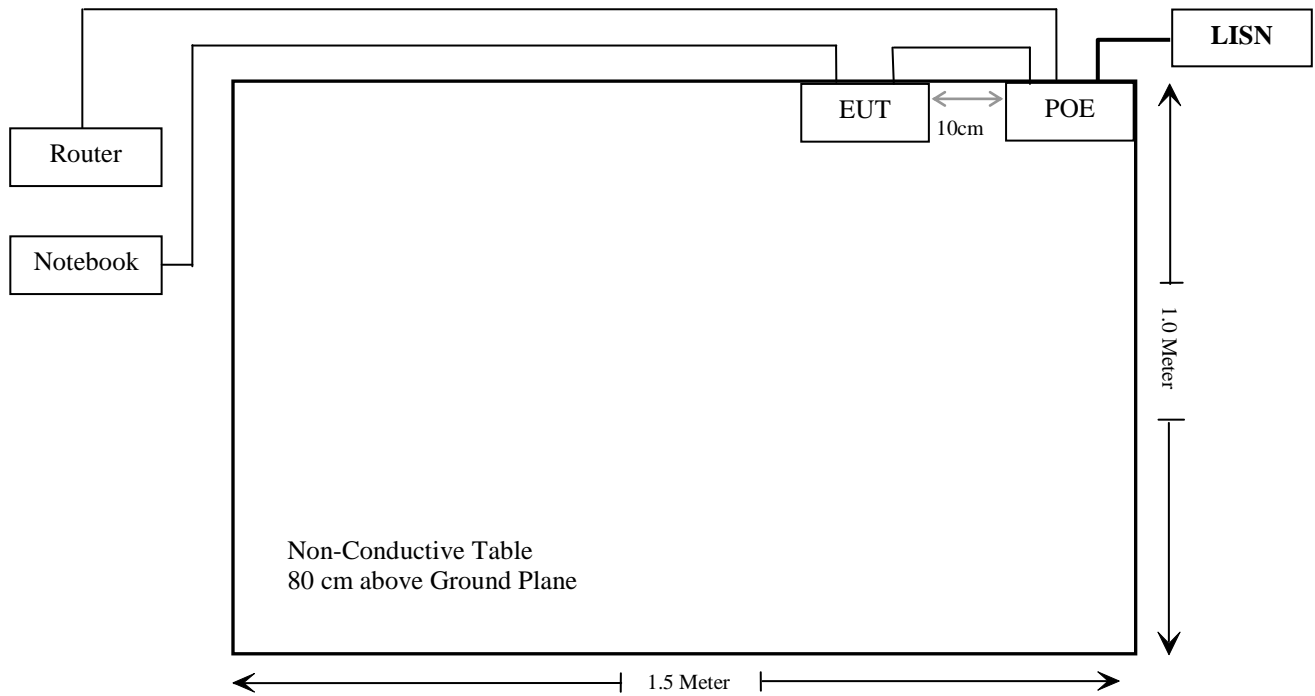
| Manufacturer | Description | Model          | Serial Number |
|--------------|-------------|----------------|---------------|
| GOSPELL      | POE         | G0720-480-050  | G0720-480-050 |
| DELL         | Notebook    | Latitude E6410 | 11429208685   |
| HIKVISION    | Router      | DS-3WR03-E     | 10021642429   |

## External I/O Cable

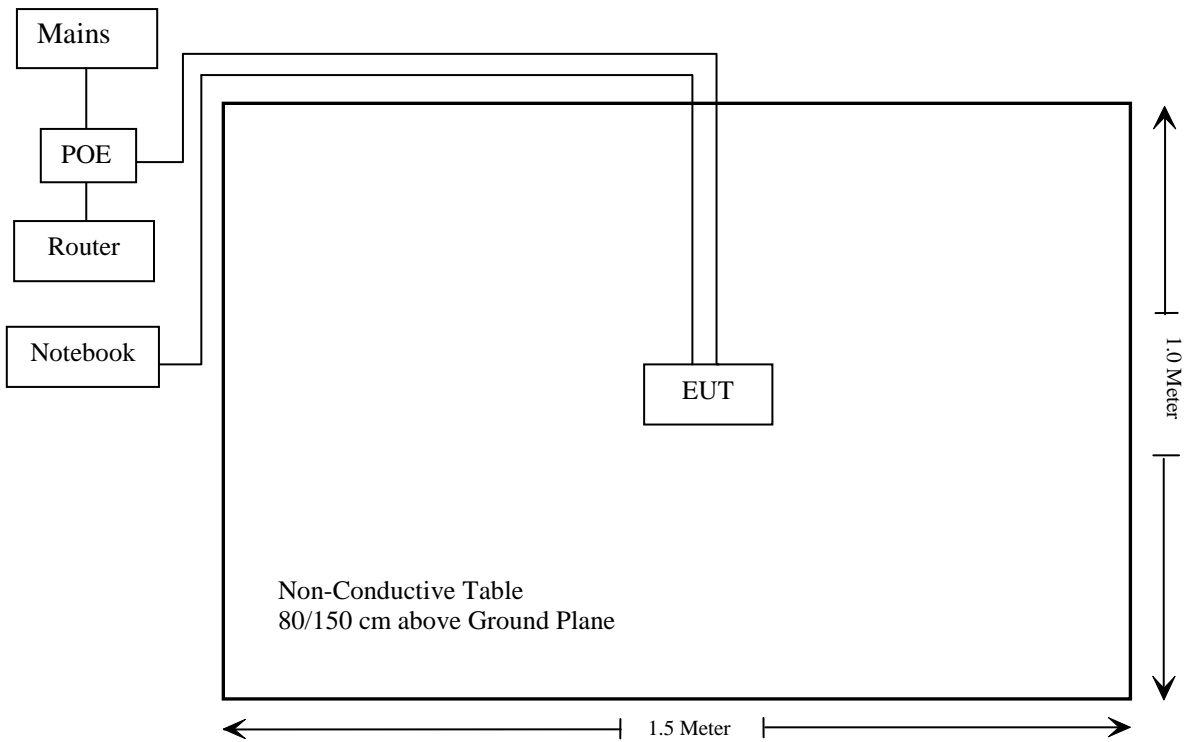
| Cable Description                  | Length (m) | From Port | To       |
|------------------------------------|------------|-----------|----------|
| Unshielded detachable RJ45 Cable   | 1.5        | POE       | EUT      |
| Un-Shielding Detachable RJ45 Cable | 5.0        | EUT       | Notebook |
| Un-shielded Un-detachable AC Cable | 1.2        | LISN      | POE      |
| Unshielded detachable RJ45 cable   | 5.0        | POE       | Router   |

### Block Diagram of Test Setup

For conducted emission:



For radiated emission:



## SUMMARY OF TEST RESULTS

| FCC Rules                        | Description of Test                      | Result         |
|----------------------------------|--|----------------|
| §1.1307 (b) (1) & §2.1091        | Maximum Permissible exposure (MPE)       | Compliant      |
| §15.203                          | Antenna Requirement                      | Compliant      |
| §15.407(b)(9)& §15.207(a)        | Conducted Emissions                      | Compliant      |
| §15.205& §15.209<br>& §15.407(b) | Undesirable Emission& Restricted Bands   | Compliant      |
| §15.407(a) (e)                   | 26 dB Emission Bandwidth & 6dB Bandwidth | Compliant      |
| §15.407(a)                       | Conducted Transmitter Output Power       | Compliant      |
| §15.407 (a)                      | Power Spectral Density                   | Compliant      |
| §15.407 (h)                      | Transmit Power Control (TPC)             | Not Applicable |
| §15.407 (h)                      | Dynamic Frequency Selection (DFS)        | Compliant*     |

Not Applicable: the EUT has no TPC function which was declared by the applicant.

Compliant\*: Please refer to the DFS report: SZNS220124-03493E-RFB.

**TEST EQUIPMENT LIST**

| Manufacturer                                     | Description       | Model           | Serial Number | Calibration Date | Calibration Due Date |
|--|-------------------|-----------------|---------------|------------------|----------------------|
| Conducted Emissions Test                         |                   |                 |               |                  |                      |
| Rohde& Schwarz                                   | EMI Test Receiver | ESCI            | 100784        | 2021/12/13       | 2022/12/12           |
| Rohde & Schwarz                                  | L.I.S.N.          | ENV216          | 101314        | 2021/12/13       | 2022/12/12           |
| Anritsu Corp                                     | 50 Coaxial Switch | MP59B           | 6100237248    | 2021/12/13       | 2022/12/12           |
| Unknown  | RF Coaxial Cable  | No.17           | N0350         | 2021/12/14       | 2022/12/13           |
| Conducted Emission Test Software: e3 19821b (V9) |                   |                 |               |                  |                      |
| Radiated Emissions Test                          |                   |                 |               |                  |                      |
| Rohde& Schwarz                                   | Test Receiver     | ESR             | 102725        | 2021/12/13       | 2022/12/12           |
| Rohde&Schwarz                                    | Spectrum Analyzer | FSV40           | 101949        | 2021/12/13       | 2022/12/12           |
| SONOMA INSTRUMENT                                | Amplifier         | 310 N           | 186131        | 2021/11/09       | 2022/11/08           |
| A.H. Systems, inc.                               | Preamplifier      | PAM-0118P       | 135           | 2021/11/09       | 2022/11/08           |
| Quinstar   | Amplifier         | QLW-18405536-J0 | 15964001002   | 2021/11/11       | 2022/11/10           |
| Schwarzbeck                                      | Bilog Antenna     | VULB9163        | 9163-323      | 2021/07/06       | 2024/07/05           |
| Schwarzbeck                                      | Horn Antenna      | BBHA9120D       | 9120D-1067    | 2020/01/05       | 2023/01/04           |
| Schwarzbeck                                      | HORN ANTENNA      | BBHA9170        | 9170-359      | 2020/01/05       | 2023/01/04           |
| Radiated Emission Test Software: e3 19821b (V9)  |                   |                 |               |                  |                      |
| Unknown  | RF Coaxial Cable  | No.10           | N050          | 2021/12/14       | 2022/12/13           |
| Unknown  | RF Coaxial Cable  | No.11           | N1000         | 2021/12/14       | 2022/12/13           |
| Unknown  | RF Coaxial Cable  | No.12           | N040          | 2021/12/14       | 2022/12/13           |
| Unknown  | RF Coaxial Cable  | No.13           | N300          | 2021/12/14       | 2022/12/13           |
| Unknown  | RF Coaxial Cable  | No.14           | N800          | 2021/12/14       | 2022/12/13           |
| Unknown  | RF Coaxial Cable  | No.15           | N600          | 2021/12/14       | 2022/12/13           |
| Unknown  | RF Coaxial Cable  | No.16           | N650          | 2021/12/14       | 2022/12/13           |

| Manufacturer      | Description       | Model    | Serial Number | Calibration Date | Calibration Due Date |
|-------------------|-------------------|----------|---------------|------------------|----------------------|
| RF Conducted Test |                   |          |               |                  |                      |
| Rohde & Schwarz   | Spectrum Analyzer | FSV-40   | 101495        | 2021/12/13       | 2022/12/12           |
| HP                | 20dB Attenuator   | 8491A    | 53857         | 2021/12/14       | 2022/12/13           |
| Tonscend          | RF Control Unit   | JS0806-2 | 19G8060182    | 2021/07/06       | 2022/07/05           |
| Tonscend          | RF Control Unit   | JS0806-2 | 19G8060182    | 2022/07/06       | 2023/07/05           |
| Unknown           | RF Cable          | Unknown  | Unknown       | Each time        |                      |
| Unknown           | RF Coaxial Cable  | No.31    | RF-01         | Each time        |                      |

\* **Statement of Traceability:** Shenzhen Accurate Technology Co., Ltd. attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

## 1.1307 (b) (1) & §2.1091- MAXIMUM PERMISSIBLE EXPOSURE (MPE)

### Applicable Standard

According to subpart 1.1307 (b)(1), 2.1091 systems operating under the provisions of this section shall be operated in a manner that ensures the public is not exposed to RF energy level in excess of the communication guidelines.

#### Limits for General Population/Uncontrolled Exposure

| Limits for General Population/Uncontrolled Exposure |                               |                               |                                     |                          |
|---|-------------------------------|-------------------------------|-------------------------------------|--------------------------|
| Frequency Range (MHz)                               | Electric Field Strength (V/m) | Magnetic Field Strength (A/m) | Power Density (mW/cm <sup>2</sup> ) | Averaging Time (Minutes) |
| 0.3-1.34  | 614                           | 1.63                          | *(100)                              | 30                       |
| 1.34-30   | 824/f                         | 2.19/f                        | *(180/f <sup>2</sup> )              | 30                       |
| 30-300  | 27.5                          | 0.073                         | 0.2                                 | 30                       |
| 300-1500  | /                             | /                             | f/1500                              | 30                       |
| 1500-100,000  | /                             | /                             | 1.0                                 | 30                       |

f = frequency in MHz

\* = Plane-wave equivalent power density

a)

### Result

#### Calculated Formulary:

Predication of MPE limit at a given distance

$$S = \frac{PG}{4\pi R^2}$$

S = power density (in appropriate units, e.g. mW/cm<sup>2</sup>)

P = power input to the antenna (in appropriate units, e.g., mW).

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain.

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

For simultaneously transmit system, the calculated power density should comply with:

$$\sum_i \frac{S_i}{S_{Limit,i}} \leq 1$$



| Frequency (MHz)             | Antenna Gain |           | Tune up conducted power |        | Evaluation Distance (cm) | Power Density (mW/cm <sup>2</sup> ) | MPE Limit (mW/cm <sup>2</sup> ) |
|-----------------------------|--------------|-----------|-------------------------|--------|--------------------------|-------------------------------------|---------------------------------|
|                             | (dBi)        | (numeric) | (dBm)                   | (mW)   |                          |                                     |                                 |
| 2412-2462 (non-beamforming) | 3.5          | 2.24      | 27.0                    | 501.19 | 25                       | 0.143                               | 1                               |
| 2412-2462 (beamforming)     | 9.5          | 8.91      | 25.0                    | 316.23 | 25                       | 0.359                               | 1                               |
| 5180-5240                   | 9.5          | 8.91      | 23.0                    | 199.53 | 25                       | 0.226                               | 1                               |
| 5260-5320                   | 9.5          | 8.91      | 19.0                    | 79.43  | 25                       | 0.090                               | 1                               |
| 5500-5720                   | 9.5          | 8.91      | 19.0                    | 79.43  | 25                       | 0.090                               | 1                               |
| 5745-5825                   | 9.5          | 8.91      | 24.0                    | 251.19 | 25                       | 0.285                               | 1                               |

- Note: 1. The tune up conducted power was declared by the applicant.  
2. The 2.4G Wi-Fi can transmit at the same time with the 5G Wi-Fi.  
3. For the 2.4G Wi-Fi, as it can support the beam-forming function, so the directional antenna gain should add the  $10\lg 4$ ,  $3.5\text{dBi}+10\lg 4=9.5\text{dBi}$ .  
4. For the 5G Wi-Fi, as it can support the beam-forming function, so the directional antenna gain should add the  $10\lg 4$ ,  $3.5\text{dBi}+10\lg 4=9.5\text{dBi}$ .

Simultaneous transmitting consideration (worst case):

The ratio= $\text{MPE}_{2.4\text{G Wi-Fi}}/\text{limit}+\text{MPE}_{5\text{G Wi-Fi}}/\text{limit}=0.359+0.285=0.644 < 1.0$ , so simultaneous exposure is compliant.

To maintain compliance with the FCC's RF exposure guidelines, place the equipment at least 27"cm from nearby persons.

**Result: Compliant.**

## **FCC §15.203 – ANTENNA REQUIREMENT**

### **Applicable Standard**

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. 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 user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- b. Antenna must be permanently attached to the unit.
- c. Antenna must use a unique type of connector to attach to the EUT.

Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.407 (a), if the transmitting antennas of directional gain greater than 6dBi are used, the transmit power and power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### **Antenna Connector Construction**

The EUT has four external antennas with unique antenna connect for 5G Wi-Fi, which were permanently attached to the EUT. Please refer to the EUT photos.

| Type     | Antenna Gain | Impedance | Frequency Range |
|----------|--------------|-----------|-----------------|
| External | 3.5dBi       | 50Ω       | 5150-5850MHz    |

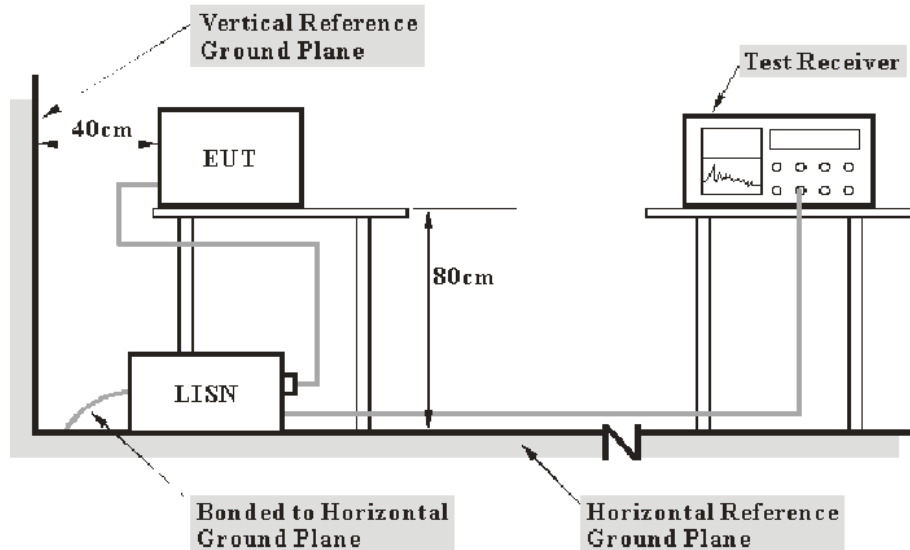
**Result:** Compliant.

## FCC §15.407 (b) (6) §15.207 (a) – CONDUCTED EMISSIONS

### Applicable Standard

FCC §15.207, §15.407(b) (6)

### EUT Setup



- Note: 1. Support units were connected to second LISN.  
 2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

### EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

| Frequency Range  | IF B/W |
|------------------|--------|
| 150 kHz – 30 MHz | 9 kHz  |

### Test Procedure

During the conducted emission test, the adapter was connected to the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and Average detection mode.

## Corrected Factor & Margin Calculation

The Corrected factor is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss. The basic equation is as follows:

$$\text{Factor} = \text{LISN VDF} + \text{Cable Loss}$$

The “Over Limit” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an over limit of -7 dB means the emission is 7 dB below the limit. The equation for margin calculation is as follows:

$$\begin{aligned}\text{Over Limit} &= \text{Level} - \text{Limit} \\ \text{Level} &= \text{Reading level} + \text{Factor}\end{aligned}$$

## Test Data

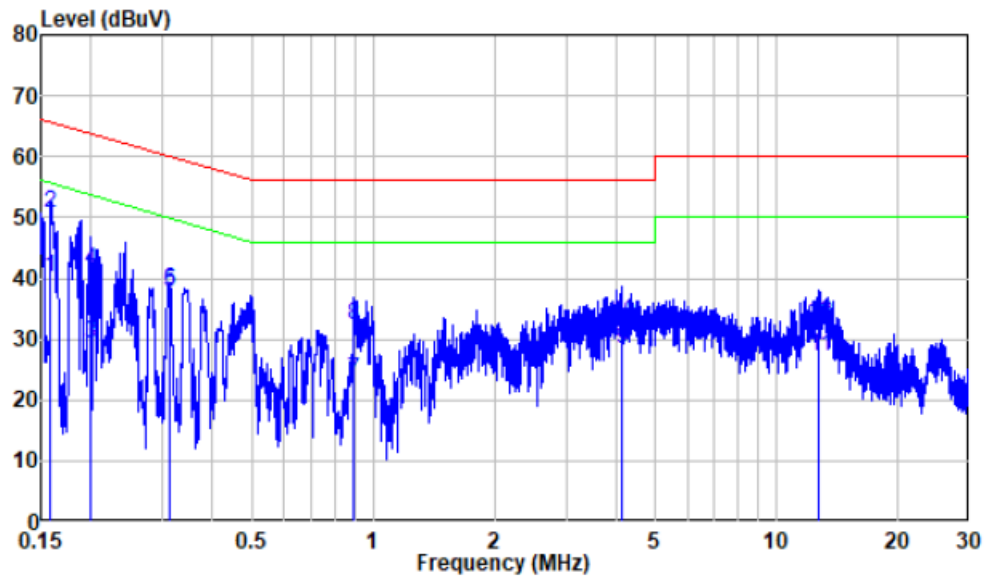
### Environmental Conditions

|                           |           |
|---------------------------|-----------|
| <b>Temperature:</b>       | 23 °C     |
| <b>Relative Humidity:</b> | 53 %      |
| <b>ATM Pressure:</b>      | 101.0 kPa |

*The testing was performed by Caro Hu on 2022-03-08.*

*EUT operation mode: Transmitting (worst case for 802.11 a 5745MHz)*

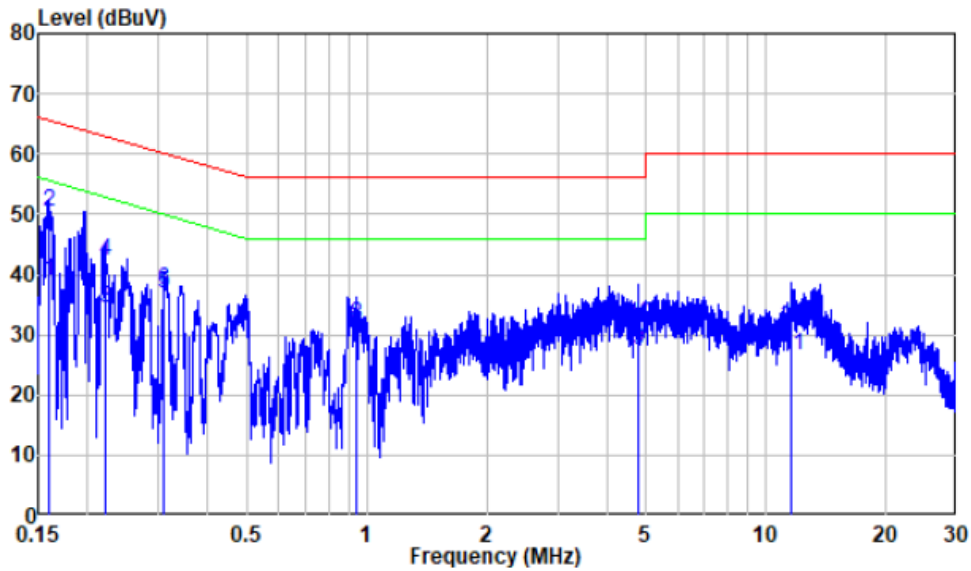
AC 120V/60 Hz, Line



Site : Shielding Room  
 Condition: Line  
 Mode : 5G  
 Model : GWN7664LR  
 Power : AC 120V 60Hz

|    | Freq   | Factor | Read Level | Limit Level | Over Limit | Remark         |
|----|--------|--------|------------|-------------|------------|----------------|
|    | MHz    | dB     | dBuV       | dBuV        | dBuV       | dB             |
| 1  | 0.159  | 9.80   | 30.32      | 40.12       | 55.52      | -15.40 Average |
| 2  | 0.159  | 9.80   | 41.04      | 50.84       | 65.52      | -14.68 QP      |
| 3  | 0.200  | 9.80   | 19.52      | 29.32       | 53.62      | -24.30 Average |
| 4  | 0.200  | 9.80   | 31.51      | 41.31       | 63.62      | -22.31 QP      |
| 5  | 0.312  | 9.80   | 27.85      | 37.65       | 49.91      | -12.26 Average |
| 6  | 0.312  | 9.80   | 28.13      | 37.93       | 59.91      | -21.98 QP      |
| 7  | 0.895  | 9.81   | 13.55      | 23.36       | 46.00      | -22.64 Average |
| 8  | 0.895  | 9.81   | 22.36      | 32.17       | 56.00      | -23.83 QP      |
| 9  | 4.116  | 9.84   | 18.43      | 28.27       | 46.00      | -17.73 Average |
| 10 | 4.116  | 9.84   | 22.79      | 32.63       | 56.00      | -23.37 QP      |
| 11 | 12.750 | 9.93   | 17.24      | 27.17       | 50.00      | -22.83 Average |
| 12 | 12.750 | 9.93   | 22.54      | 32.47       | 60.00      | -27.53 QP      |

**AC 120V/60 Hz, Neutral**



Site : Shielding Room  
 Condition: Neutral  
 Mode : 5G  
 Model : GWN7664LR  
 Power : AC 120V 60Hz

|    | Freq   | Factor | Read Level | Level | Limit | Over   | Remark  |
|----|--------|--------|------------|-------|-------|--------|---------|
|    | MHz    | dB     | dBuV       | dBuV  | dBuV  | dB     |         |
| 1  | 0.159  | 9.80   | 29.05      | 38.85 | 55.51 | -16.66 | Average |
| 2  | 0.159  | 9.80   | 40.73      | 50.53 | 65.51 | -14.98 | QP      |
| 3  | 0.222  | 9.80   | 24.54      | 34.34 | 52.76 | -18.42 | Average |
| 4  | 0.222  | 9.80   | 32.50      | 42.30 | 62.76 | -20.46 | QP      |
| 5  | 0.311  | 9.80   | 27.02      | 36.82 | 49.95 | -13.13 | Average |
| 6  | 0.311  | 9.80   | 27.69      | 37.49 | 59.95 | -22.46 | QP      |
| 7  | 0.941  | 9.81   | 17.82      | 27.63 | 46.00 | -18.37 | Average |
| 8  | 0.941  | 9.81   | 21.88      | 31.69 | 56.00 | -24.31 | QP      |
| 9  | 4.806  | 9.88   | 17.65      | 27.53 | 46.00 | -18.47 | Average |
| 10 | 4.806  | 9.88   | 21.79      | 31.67 | 56.00 | -24.33 | QP      |
| 11 | 11.590 | 10.02  | 16.58      | 26.60 | 50.00 | -23.40 | Average |
| 12 | 11.590 | 10.02  | 21.44      | 31.46 | 60.00 | -28.54 | QP      |

## §15.205 & §15.209 & §15.407(B)– UNDESIRABLE EMISSION

### Applicable Standard

FCC §15.407 (b); §15.209; §15.205;

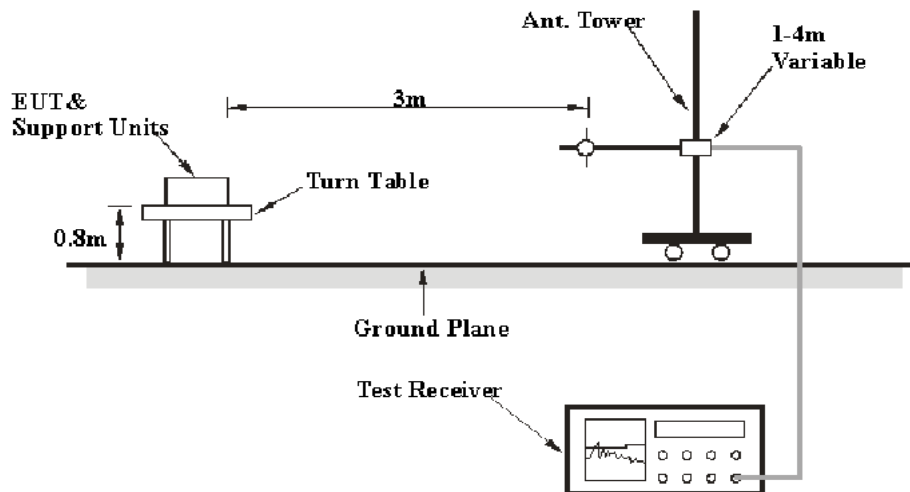
(b) Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

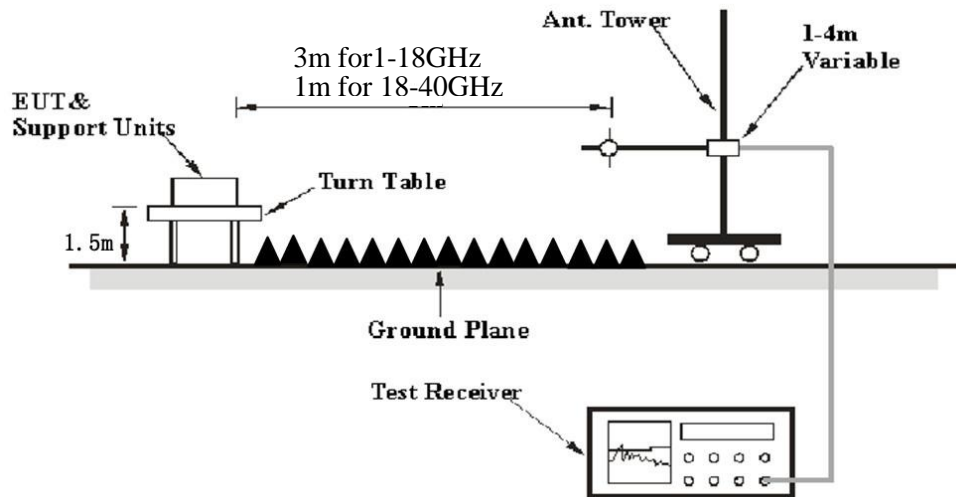
- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of  $-27$  dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of  $-27$  dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of  $-27$  dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band:
  - (i) All emissions shall be limited to a level of  $-27$  dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209.

### EUT Setup

#### Below 1 GHz:



**Above 1 GHz:**

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC 15.209 and FCC 15.407 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

**EMI Test Receiver & Spectrum Analyzer Setup**

The system was investigated from 30 MHz to 40 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

| Frequency Range   | RBW     | Video B/W               | IF B/W  | Measurement |
|-------------------|---------|-------------------------|---------|-------------|
| 30 MHz – 1000 MHz | 100 kHz | 300 kHz                 | 120 kHz | QP          |
| Above 1 GHz       | 1 MHz   | 3 MHz                   | /       | PK          |
|                   | 1MHz    | 10 Hz <sup>Note 1</sup> | /       | Average     |
|                   | 1MHz    | > 1/T <sup>Note 2</sup> | /       | Average     |

Note 1: when duty cycle is no less than 98%

Note 2: when duty cycle is less than 98%

**Test Procedure****Radiated Spurious Emission**

During the radiated emission test, the adapter was connected to the AC floor outlet.

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all the installation combinations.

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz-1GHz, peak and Average detection modes for frequencies above 1GHz.



According to ANSI C63.10-2013,9.4: For field strength measurements made at other than the distance at which the applicable limit is specified, extrapolate the measured field strength to the field strength at the distance specified by the limit using an inverse distance correction factor (20 dB/decade of distance). In some cases, a different distance correction factor may be required;

$$E_{\text{SpecLimit}} = E_{\text{Meas}} + 20 \log \left( \frac{d_{\text{Meas}}}{d_{\text{SpecLimit}}} \right)$$

where

|                        |   |
|------------------------|---|
| $E_{\text{SpecLimit}}$ | is the field strength of the emission at the distance specified by the limit, in dB $\mu$ V/m |
| $E_{\text{Meas}}$      | is the field strength of the emission at the measurement distance, in dB $\mu$ V/m            |
| $d_{\text{Meas}}$      | is the measurement distance, in m   |
| $d_{\text{SpecLimit}}$ | is the distance specified by the limit, in m  |

So the extrapolation factor of 1m is  $20 \cdot \log(1/3) = -9.5$  dB, for 18-40GHz range, the limit of 1m distance was added by 9.5dB from limit of 3m to compared with the result measurement at 1m distance.

### Corrected Factor & Margin Calculation

The Corrected Factor is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain. The basic equation is as follows:

$$\text{Corrected Amplitude} = \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “**Margin/Over Limit**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin/over limit of -7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

$$\begin{aligned} \text{Margin/Over limit} &= \text{Corrected Amplitude/Level} - \text{Limit} \\ \text{Corrected Amplitude/Level} &= \text{Reading} + \text{Factor} \end{aligned}$$

### Test Data

#### Environmental Conditions

|                           |           |
|---------------------------|-----------|
| <b>Temperature:</b>       | 20~28 °C  |
| <b>Relative Humidity:</b> | 51~58 %   |
| <b>ATM Pressure:</b>      | 101.0 kPa |

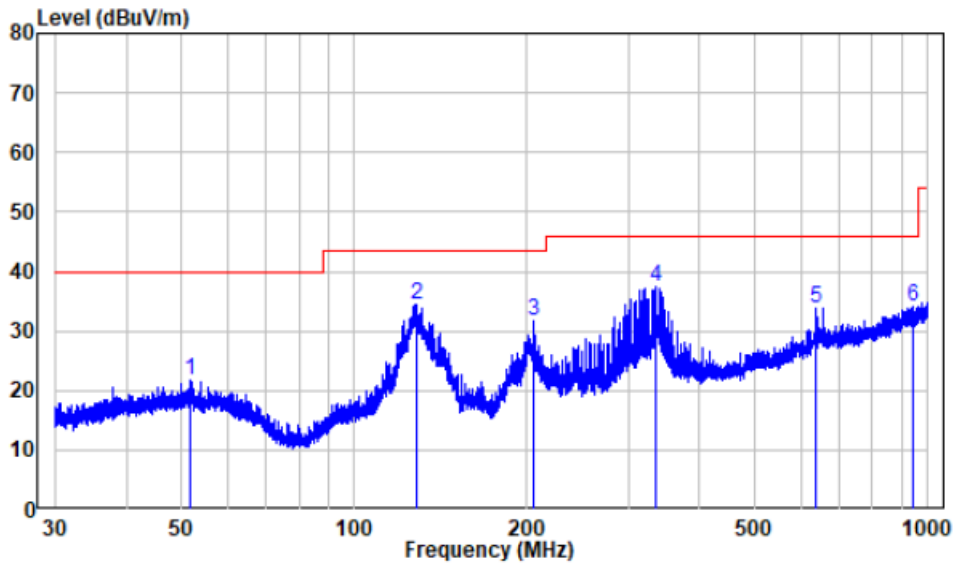
*The testing was performed by Caro Hu on 2022-03-07 for below 1GHz and Nick Fang from 2022-02-17 to 2022-04-25 for above 1GHz.*

*Test mode: Transmitting (Pre-scan in the X,Y and Z axes of orientation, the worst case Z-axis of orientation was recorded)*

**30MHz-1GHz: (worst case for 802.11 a 5745MHz)**

*Note: When the test result of Peak was less than the limit of QP, just the peak value was recorded.*

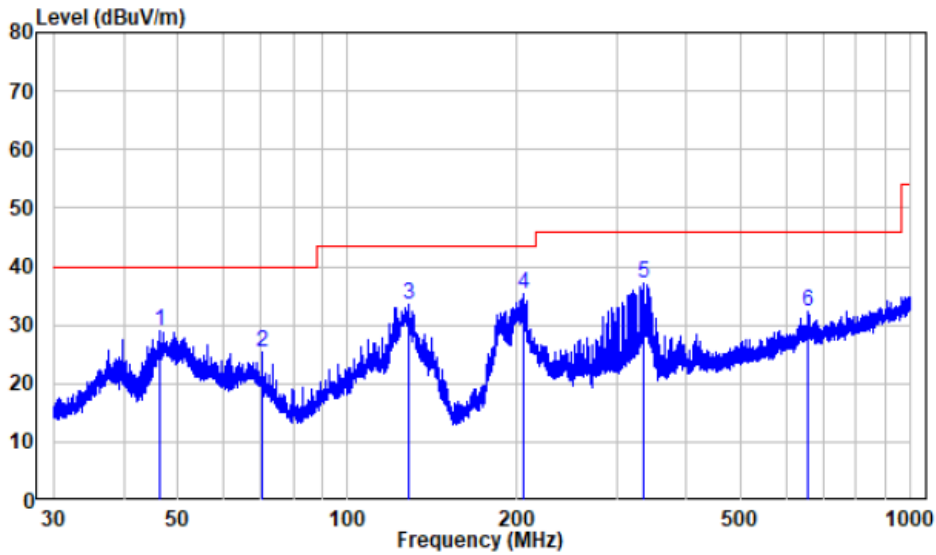
**Horizontal**



Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No. : SZNS220124-03493E-RF  
 Test Mode: 5G WIFI Transmitting

|   | Freq    | Factor | Read Level | Limit Level | Limit Line | Over Limit | Remark |
|---|---------|--------|------------|-------------|------------|------------|--------|
|   | MHz     | dB/m   | dBuV       | dBuV/m      | dBuV/m     | dB         |        |
| 1 | 51.594  | -9.96  | 31.59      | 21.63       | 40.00      | -18.37     | Peak   |
| 2 | 127.945 | -14.69 | 49.23      | 34.54       | 43.50      | -8.96      | Peak   |
| 3 | 205.856 | -11.84 | 43.43      | 31.59       | 43.50      | -11.91     | Peak   |
| 4 | 336.035 | -7.58  | 45.03      | 37.45       | 46.00      | -8.55      | Peak   |
| 5 | 640.050 | -1.92  | 35.79      | 33.87       | 46.00      | -12.13     | Peak   |
| 6 | 941.305 | 1.78   | 32.31      | 34.09       | 46.00      | -11.91     | Peak   |

**Vertical**



Site : chamber  
 Condition: 3m VERTICAL  
 Job No. : SZNS220124-03493E-RF  
 Test Mode: 5G WIFI Transmitting

|   | Freq    | Factor | Read Level | Limit Level | Limit Line | Over Limit | Remark |
|---|---------|--------|------------|-------------|------------|------------|--------|
|   | MHz     | dB/m   | dBuV       | dBuV/m      | dBuV/m     | dB         |        |
| 1 | 46.239  | -9.99  | 39.01      | 29.02       | 40.00      | -10.98     | Peak   |
| 2 | 70.398  | -14.95 | 40.29      | 25.34       | 40.00      | -14.66     | Peak   |
| 3 | 128.001 | -14.70 | 48.18      | 33.48       | 43.50      | -10.02     | Peak   |
| 4 | 204.596 | -11.80 | 47.19      | 35.39       | 43.50      | -8.11      | Peak   |
| 5 | 336.035 | -7.58  | 44.83      | 37.25       | 46.00      | -8.75      | Peak   |
| 6 | 656.242 | -1.59  | 33.80      | 32.21       | 46.00      | -13.79     | Peak   |

**5150-5250 MHz:**

| Frequency (MHz)           | Receiver       |                     | Turn-Table<br>Angle Degree | Rx Antenna |               | Corrected Factor (dB/m) | Corrected Amplitude (dBμV/m) | FCC Part 15.407 |             |
|---------------------------|----------------|---------------------|----------------------------|------------|---------------|-------------------------|------------------------------|-----------------|-------------|
|                           | Reading (dBμV) | Detector (PK/QP/AV) |                            | Height (m) | Polar (H / V) |                         |                              | Limit (dBμV/m)  | Margin (dB) |
| 802.11A MIMO (worst case) |                |                     |                            |            |               |                         |                              |                 |             |
| 5180 MHz                  |                |                     |                            |            |               |                         |                              |                 |             |
| 4500                      | 63.83          | PK                  | 354                        | 1.8        | H             | -4.72                   | 59.11                        | 74              | -14.89      |
| 4500                      | 50.50          | AV                  | 354                        | 1.8        | H             | -4.72                   | 45.78                        | 54              | -8.22       |
| 4500                      | 64.08          | PK                  | 324                        | 1.6        | V             | -4.72                   | 59.36                        | 74              | -14.64      |
| 4500                      | 50.48          | AV                  | 324                        | 1.6        | V             | -4.72                   | 45.76                        | 54              | -8.24       |
| 5150                      | 67.00          | PK                  | 130                        | 1.6        | H             | -2.73                   | 64.27                        | 74              | -9.73       |
| 5150                      | 53.28          | AV                  | 130                        | 1.6        | H             | -2.73                   | 50.55                        | 54              | -3.45       |
| 5150                      | 63.64          | PK                  | 257                        | 2.1        | V             | -2.73                   | 60.91                        | 74              | -13.09      |
| 5150                      | 51.49          | AV                  | 257                        | 2.1        | V             | -2.73                   | 48.76                        | 54              | -5.24       |
| 10360                     | 44.11          | PK                  | 142                        | 1.8        | H             | 8.10                    | 52.21                        | 68.2            | -15.99      |
| 10360                     | 44.85          | PK                  | 68                         | 1.8        | V             | 8.10                    | 52.95                        | 68.2            | -15.25      |
| 5200 MHz                  |                |                     |                            |            |               |                         |                              |                 |             |
| 10400                     | 44.26          | PK                  | 294                        | 1.7        | H             | 8.24                    | 52.5                         | 68.2            | -15.70      |
| 10400                     | 45.18          | PK                  | 108                        | 1.7        | V             | 8.24                    | 53.42                        | 68.2            | -14.78      |
| 5240MHz                   |                |                     |                            |            |               |                         |                              |                 |             |
| 5350                      | 64.91          | PK                  | 10                         | 1          | H             | -2.33                   | 62.58                        | 74              | -11.42      |
| 5350                      | 52.03          | AV                  | 10                         | 1          | H             | -2.33                   | 49.7                         | 54              | -4.30       |
| 5350                      | 63.67          | PK                  | 206                        | 2.1        | V             | -2.33                   | 61.34                        | 74              | -12.66      |
| 5350                      | 51.30          | AV                  | 206                        | 2.1        | V             | -2.33                   | 48.97                        | 54              | -5.03       |
| 5460                      | 63.75          | PK                  | 6                          | 1.8        | H             | -2.30                   | 61.45                        | 74              | -12.55      |
| 5460                      | 51.39          | AV                  | 6                          | 1.8        | H             | -2.30                   | 49.09                        | 54              | -4.91       |
| 5460                      | 63.74          | PK                  | 276                        | 1.1        | V             | -2.30                   | 61.44                        | 74              | -12.56      |
| 5460                      | 51.57          | AV                  | 276                        | 1.1        | V             | -2.30                   | 49.27                        | 54              | -4.73       |
| 10480                     | 43.16          | PK                  | 98                         | 1.7        | H             | 8.60                    | 51.76                        | 68.2            | -16.44      |
| 10480                     | 46.16          | PK                  | 293                        | 1.7        | V             | 8.60                    | 54.76                        | 68.2            | -13.44      |

| Frequency (MHz)                     | Receiver       |                     | Turn-Table<br>Angle Degree | Rx Antenna |               | Corrected Factor (dB/m) | Corrected Amplitude (dBμV/m) | FCC Part 15.407 |             |
|-------------------------------------|----------------|---------------------|----------------------------|------------|---------------|-------------------------|------------------------------|-----------------|-------------|
|                                     | Reading (dBμV) | Detector (PK/QP/AV) |                            | Height (m) | Polar (H / V) |                         |                              | Limit (dBμV/m)  | Margin (dB) |
| 802.11n20 MIMO + No-BF (Worst case) |                |                     |                            |            |               |                         |                              |                 |             |
| 5180 MHz                            |                |                     |                            |            |               |                         |                              |                 |             |
| 4500                                | 63.87          | PK                  | 225                        | 2.5        | H             | -4.72                   | 59.15                        | 74              | -14.85      |
| 4500                                | 50.39          | AV                  | 225                        | 2.5        | H             | -4.72                   | 45.67                        | 54              | -8.33       |
| 4500                                | 64.54          | PK                  | 345                        | 1.5        | V             | -4.72                   | 59.82                        | 74              | -14.18      |
| 4500                                | 50.12          | AV                  | 345                        | 1.5        | V             | -4.72                   | 45.40                        | 54              | -8.60       |
| 5150                                | 69.98          | PK                  | 156                        | 1.1        | H             | -2.73                   | 67.25                        | 74              | -6.75       |
| 5150                                | 53.36          | AV                  | 156                        | 1.1        | H             | -2.73                   | 50.63                        | 54              | -3.37       |
| 5150                                | 63.72          | PK                  | 302                        | 1.4        | V             | -2.73                   | 60.99                        | 74              | -13.01      |
| 5150                                | 51.36          | AV                  | 302                        | 1.4        | V             | -2.73                   | 48.63                        | 54              | -5.37       |
| 10360                               | 43.89          | PK                  | 128                        | 2.2        | H             | 8.10                    | 51.99                        | 68.2            | -16.21      |
| 10360                               | 47.29          | PK                  | 55                         | 2.2        | V             | 8.10                    | 55.39                        | 68.2            | -12.81      |
| 5200MHz                             |                |                     |                            |            |               |                         |                              |                 |             |
| 10400                               | 43.87          | PK                  | 139                        | 1.2        | H             | 8.24                    | 52.11                        | 68.2            | -16.09      |
| 10400                               | 47.22          | PK                  | 90                         | 1.2        | V             | 8.24                    | 55.46                        | 68.2            | -12.74      |
| 5240MHz                             |                |                     |                            |            |               |                         |                              |                 |             |
| 5350                                | 64.61          | PK                  | 305                        | 1.4        | H             | -2.33                   | 62.28                        | 74              | -11.72      |
| 5350                                | 52.06          | AV                  | 305                        | 1.4        | H             | -2.33                   | 49.73                        | 54              | -4.27       |
| 5350                                | 63.55          | PK                  | 240                        | 2.4        | V             | -2.33                   | 61.22                        | 74              | -12.78      |
| 5350                                | 51.20          | AV                  | 240                        | 2.4        | V             | -2.33                   | 48.87                        | 54              | -5.13       |
| 5460                                | 64.12          | PK                  | 37                         | 1.3        | H             | -2.30                   | 61.82                        | 74              | -12.18      |
| 5460                                | 51.44          | AV                  | 37                         | 1.3        | H             | -2.30                   | 49.14                        | 54              | -4.86       |
| 5460                                | 64.16          | PK                  | 143                        | 1.9        | V             | -2.30                   | 61.86                        | 74              | -12.14      |
| 5460                                | 51.63          | AV                  | 143                        | 1.9        | V             | -2.30                   | 49.33                        | 54              | -4.67       |
| 10480                               | 43.25          | PK                  | 250                        | 1.7        | H             | 8.60                    | 51.85                        | 68.2            | -16.35      |
| 10480                               | 46.24          | PK                  | 338                        | 1.7        | V             | 8.60                    | 54.84                        | 68.2            | -13.36      |

| Frequency<br>(MHz)                  | Receiver          |                        | Turn-<br>Table<br>Angle<br>Degree | Rx Antenna    |                  | Corrected<br>Factor<br>(dB/m) | Corrected<br>Amplitude<br>(dBμV/m) | FCC Part 15.407   |                |
|-------------------------------------|-------------------|------------------------|-----------------------------------|---------------|------------------|-------------------------------|------------------------------------|-------------------|----------------|
|                                     | Reading<br>(dBμV) | Detector<br>(PK/QP/AV) |                                   | Height<br>(m) | Polar<br>(H / V) |                               |                                    | Limit<br>(dBμV/m) | Margin<br>(dB) |
| 802.11N40 MIMO + No-BF (Worst case) |                   |                        |                                   |               |                  |                               |                                    |                   |                |
| 5190 MHz                            |                   |                        |                                   |               |                  |                               |                                    |                   |                |
| 4500                                | 64.02             | PK                     | 244                               | 1.7           | H                | -4.72                         | 59.30                              | 74                | -14.70         |
| 4500                                | 50.52             | AV                     | 244                               | 1.7           | H                | -4.72                         | 45.80                              | 54                | -8.20          |
| 4500                                | 63.75             | PK                     | 47                                | 1.4           | V                | -4.72                         | 59.03                              | 74                | -14.97         |
| 4500                                | 50.27             | AV                     | 47                                | 1.4           | V                | -4.72                         | 45.55                              | 54                | -8.45          |
| 5150                                | 67.95             | PK                     | 206                               | 1             | H                | -2.73                         | 65.22                              | 74                | -8.78          |
| 5150                                | 53.32             | AV                     | 206                               | 1             | H                | -2.73                         | 50.59                              | 54                | -3.41          |
| 5150                                | 64.84             | PK                     | 352                               | 1.8           | V                | -2.73                         | 62.11                              | 74                | -11.89         |
| 5150                                | 51.61             | AV                     | 352                               | 1.8           | V                | -2.73                         | 48.88                              | 54                | -5.12          |
| 10380                               | 42.00             | PK                     | 151                               | 1.4           | H                | 8.20                          | 50.20                              | 68.2              | -18.00         |
| 10380                               | 42.09             | PK                     | 160                               | 1.4           | V                | 8.20                          | 50.29                              | 68.2              | -17.91         |
| 5230MHz                             |                   |                        |                                   |               |                  |                               |                                    |                   |                |
| 5350                                | 64.84             | PK                     | 272                               | 1.8           | H                | -2.33                         | 62.51                              | 74                | -11.49         |
| 5350                                | 51.27             | AV                     | 272                               | 1.8           | H                | -2.33                         | 48.94                              | 54                | -5.06          |
| 5350                                | 63.91             | PK                     | 195                               | 1.7           | V                | -2.33                         | 61.58                              | 74                | -12.42         |
| 5350                                | 51.12             | AV                     | 195                               | 1.7           | V                | -2.33                         | 48.79                              | 54                | -5.21          |
| 5460                                | 64.10             | PK                     | 325                               | 2.2           | H                | -2.30                         | 61.8                               | 74                | -12.20         |
| 5460                                | 51.42             | AV                     | 325                               | 2.2           | H                | -2.30                         | 49.12                              | 54                | -4.88          |
| 5460                                | 63.86             | PK                     | 56                                | 1.8           | V                | -2.30                         | 61.56                              | 74                | -12.44         |
| 5460                                | 51.50             | AV                     | 56                                | 1.8           | V                | -2.30                         | 49.2                               | 54                | -4.80          |
| 10460                               | 42.26             | PK                     | 191                               | 1.7           | H                | 8.43                          | 50.69                              | 68.2              | -17.51         |
| 10460                               | 43.39             | PK                     | 135                               | 1.7           | V                | 8.43                          | 51.82                              | 68.2              | -16.38         |

| Frequency (MHz)                      | Receiver       |                     | Turn-Table<br>Angle Degree | Rx Antenna |               | Corrected Factor (dB/m) | Corrected Amplitude (dBμV/m) | FCC Part 15.407 |             |
|--------------------------------------|----------------|---------------------|----------------------------|------------|---------------|-------------------------|------------------------------|-----------------|-------------|
|                                      | Reading (dBμV) | Detector (PK/QP/AV) |                            | Height (m) | Polar (H / V) |                         |                              | Limit (dBμV/m)  | Margin (dB) |
| 802.11AC20 MIMO + No-BF (Worst case) |                |                     |                            |            |               |                         |                              |                 |             |
| 5180 MHz                             |                |                     |                            |            |               |                         |                              |                 |             |
| 4500                                 | 64.24          | PK                  | 317                        | 1.5        | H             | -4.72                   | 59.52                        | 74              | -14.48      |
| 4500                                 | 50.20          | AV                  | 317                        | 1.5        | H             | -4.72                   | 45.48                        | 54              | -8.52       |
| 4500                                 | 63.74          | PK                  | 218                        | 1.5        | V             | -4.72                   | 59.02                        | 74              | -14.98      |
| 4500                                 | 50.37          | AV                  | 218                        | 1.5        | V             | -4.72                   | 45.65                        | 54              | -8.35       |
| 5150                                 | 66.92          | PK                  | 208                        | 1.4        | H             | -2.73                   | 64.19                        | 74              | -9.81       |
| 5150                                 | 52.21          | AV                  | 208                        | 1.4        | H             | -2.73                   | 49.48                        | 54              | -4.52       |
| 5150                                 | 64.98          | PK                  | 229                        | 1.8        | V             | -2.73                   | 62.25                        | 74              | -11.75      |
| 5150                                 | 51.26          | AV                  | 229                        | 1.8        | V             | -2.73                   | 48.53                        | 54              | -5.47       |
| 10360                                | 45.00          | PK                  | 159                        | 1.1        | H             | 8.10                    | 53.10                        | 68.2            | -15.10      |
| 10360                                | 45.01          | PK                  | 263                        | 1.1        | V             | 8.10                    | 53.11                        | 68.2            | -15.09      |
| 5200 MHz                             |                |                     |                            |            |               |                         |                              |                 |             |
| 10400                                | 44.94          | PK                  | 201                        | 1.8        | H             | 8.24                    | 53.18                        | 68.2            | -15.02      |
| 10400                                | 44.98          | PK                  | 62                         | 1.8        | V             | 8.24                    | 53.22                        | 68.2            | -14.98      |
| 5240MHz                              |                |                     |                            |            |               |                         |                              |                 |             |
| 5350                                 | 64.46          | PK                  | 258                        | 1.9        | H             | -2.33                   | 62.13                        | 74              | -11.87      |
| 5350                                 | 50.97          | AV                  | 258                        | 1.9        | H             | -2.33                   | 48.64                        | 54              | -5.36       |
| 5350                                 | 63.67          | PK                  | 50                         | 2.4        | V             | -2.33                   | 61.34                        | 74              | -12.66      |
| 5350                                 | 51.38          | AV                  | 50                         | 2.4        | V             | -2.33                   | 49.05                        | 54              | -4.95       |
| 5460                                 | 64.00          | PK                  | 25                         | 2.3        | H             | -2.30                   | 61.7                         | 74              | -12.30      |
| 5460                                 | 51.31          | AV                  | 25                         | 2.3        | H             | -2.30                   | 49.01                        | 54              | -4.99       |
| 5460                                 | 63.87          | PK                  | 335                        | 1.1        | V             | -2.30                   | 61.57                        | 74              | -12.43      |
| 5460                                 | 51.61          | AV                  | 335                        | 1.1        | V             | -2.30                   | 49.31                        | 54              | -4.69       |
| 10480                                | 43.66          | PK                  | 219                        | 1.7        | H             | 8.60                    | 52.26                        | 68.2            | -15.94      |
| 10480                                | 46.08          | PK                  | 231                        | 1.7        | V             | 8.60                    | 54.68                        | 68.2            | -13.52      |

| Frequency<br>(MHz)                   | Receiver          |                        | Turn-<br>Table  | Rx Antenna    |                  | Corrected<br>Factor<br>(dB/m) | Corrected<br>Amplitude<br>(dBμV/m) | FCC Part 15.407   |                |
|--------------------------------------|-------------------|------------------------|-----------------|---------------|------------------|-------------------------------|------------------------------------|-------------------|----------------|
|                                      | Reading<br>(dBμV) | Detector<br>(PK/QP/AV) | Angle<br>Degree | Height<br>(m) | Polar<br>(H / V) |                               |                                    | Limit<br>(dBμV/m) | Margin<br>(dB) |
| 802.11AC40 MIMO + No-BF (Worst case) |                   |                        |                 |               |                  |                               |                                    |                   |                |
| 5190 MHz                             |                   |                        |                 |               |                  |                               |                                    |                   |                |
| 4500                                 | 64.25             | PK                     | 277             | 1.2           | H                | -4.72                         | 59.53                              | 74                | -14.47         |
| 4500                                 | 50.37             | AV                     | 277             | 1.2           | H                | -4.72                         | 45.65                              | 54                | -8.35          |
| 4500                                 | 63.99             | PK                     | 186             | 2.4           | V                | -4.72                         | 59.27                              | 74                | -14.73         |
| 4500                                 | 50.21             | AV                     | 186             | 2.4           | V                | -4.72                         | 45.49                              | 54                | -8.51          |
| 5150                                 | 65.82             | PK                     | 355             | 2.3           | H                | -2.73                         | 63.09                              | 74                | -10.91         |
| 5150                                 | 53.10             | AV                     | 355             | 2.3           | H                | -2.73                         | 50.37                              | 54                | -3.63          |
| 5150                                 | 63.64             | PK                     | 219             | 2.2           | V                | -2.73                         | 60.91                              | 74                | -13.09         |
| 5150                                 | 51.60             | AV                     | 219             | 2.2           | V                | -2.73                         | 48.87                              | 54                | -5.13          |
| 10380                                | 42.09             | PK                     | 128             | 2.1           | H                | 8.20                          | 50.29                              | 68.2              | -17.91         |
| 10380                                | 41.74             | PK                     | 275             | 2.1           | V                | 8.20                          | 49.94                              | 68.2              | -18.26         |
| 5230MHz                              |                   |                        |                 |               |                  |                               |                                    |                   |                |
| 5350                                 | 64.48             | PK                     | 10              | 1.7           | H                | -2.33                         | 62.15                              | 74                | -11.85         |
| 5350                                 | 51.04             | AV                     | 10              | 1.7           | H                | -2.33                         | 48.71                              | 54                | -5.29          |
| 5350                                 | 63.87             | PK                     | 260             | 2             | V                | -2.33                         | 61.54                              | 74                | -12.46         |
| 5350                                 | 51.25             | AV                     | 260             | 2             | V                | -2.33                         | 48.92                              | 54                | -5.08          |
| 5460                                 | 64.13             | PK                     | 339             | 2             | H                | -2.30                         | 61.83                              | 74                | -12.17         |
| 5460                                 | 51.56             | AV                     | 339             | 2             | H                | -2.30                         | 49.26                              | 54                | -4.74          |
| 5460                                 | 63.75             | PK                     | 229             | 2.2           | V                | -2.30                         | 61.45                              | 74                | -12.55         |
| 5460                                 | 51.27             | AV                     | 229             | 2.2           | V                | -2.30                         | 48.97                              | 54                | -5.03          |
| 10460                                | 42.64             | PK                     | 248             | 1.7           | H                | 8.43                          | 51.07                              | 68.2              | -17.13         |
| 10460                                | 43.49             | PK                     | 258             | 1.7           | V                | 8.43                          | 51.92                              | 68.2              | -16.28         |



| Frequency<br>(MHz)                   | Receiver          |                        | Turn-<br>Table<br>Angle<br>Degree | Rx Antenna    |                  | Corrected<br>Factor<br>(dB/m) | Corrected<br>Amplitude<br>(dBμV/m) | FCC Part 15.407   |                |
|--------------------------------------|-------------------|------------------------|-----------------------------------|---------------|------------------|-------------------------------|------------------------------------|-------------------|----------------|
|                                      | Reading<br>(dBμV) | Detector<br>(PK/QP/AV) |                                   | Height<br>(m) | Polar<br>(H / V) |                               |                                    | Limit<br>(dBμV/m) | Margin<br>(dB) |
| 802.11AC80 MIMO + No-BF (Worst case) |                   |                        |                                   |               |                  |                               |                                    |                   |                |
| 5210MHz                              |                   |                        |                                   |               |                  |                               |                                    |                   |                |
| 4500                                 | 64.13             | PK                     | 308                               | 2.1           | H                | -4.72                         | 59.41                              | 74                | -14.59         |
| 4500                                 | 50.47             | AV                     | 308                               | 2.1           | H                | -4.72                         | 45.75                              | 54                | -8.25          |
| 4500                                 | 63.93             | PK                     | 8                                 | 1.3           | V                | -4.72                         | 59.21                              | 74                | -14.79         |
| 4500                                 | 50.35             | AV                     | 8                                 | 1.3           | V                | -4.72                         | 45.63                              | 54                | -8.37          |
| 5150                                 | 67.71             | PK                     | 288                               | 2.1           | H                | -2.73                         | 64.98                              | 74                | -9.02          |
| 5150                                 | 53.64             | AV                     | 288                               | 2.1           | H                | -2.73                         | 50.91                              | 54                | -3.09          |
| 5150                                 | 65.07             | PK                     | 72                                | 1.2           | V                | -2.73                         | 62.34                              | 74                | -11.66         |
| 5150                                 | 51.41             | AV                     | 72                                | 1.2           | V                | -2.73                         | 48.68                              | 54                | -5.32          |
| 5350                                 | 64.89             | PK                     | 282                               | 1.1           | H                | -2.33                         | 62.56                              | 74                | -11.44         |
| 5350                                 | 51.63             | AV                     | 282                               | 1.1           | H                | -2.33                         | 49.3                               | 54                | -4.70          |
| 5350                                 | 63.87             | PK                     | 135                               | 1.6           | V                | -2.33                         | 61.54                              | 74                | -12.46         |
| 5350                                 | 51.01             | AV                     | 135                               | 1.6           | V                | -2.33                         | 48.68                              | 54                | -5.32          |
| 5460                                 | 63.98             | PK                     | 338                               | 1.7           | H                | -2.30                         | 61.68                              | 74                | -12.32         |
| 5460                                 | 51.39             | AV                     | 338                               | 1.7           | H                | -2.30                         | 49.09                              | 54                | -4.91          |
| 5460                                 | 63.81             | PK                     | 20                                | 2.1           | V                | -2.30                         | 61.51                              | 74                | -12.49         |
| 5460                                 | 51.45             | AV                     | 20                                | 2.1           | V                | -2.30                         | 49.15                              | 54                | -4.85          |
| 10420                                | 42.73             | PK                     | 290                               | 1.7           | H                | 8.32                          | 51.05                              | 68.2              | -17.15         |
| 10420                                | 43.17             | PK                     | 39                                | 1.7           | V                | 8.32                          | 51.49                              | 68.2              | -16.71         |

| Frequency (MHz)                      | Receiver       |                     | Turn-Table   | Rx Antenna |               | Corrected Factor (dB/m) | Corrected Amplitude (dBμV/m) | FCC Part 15.407 |             |
|--------------------------------------|----------------|---------------------|--------------|------------|---------------|-------------------------|------------------------------|-----------------|-------------|
|                                      | Reading (dBμV) | Detector (PK/QP/AV) | Angle Degree | Height (m) | Polar (H / V) |                         |                              | Limit (dBμV/m)  | Margin (dB) |
| 802.11AX20 MIMO + No-BF (Worst case) |                |                     |              |            |               |                         |                              |                 |             |
| 5180MHz_26Tone_RU0(Worst Case)       |                |                     |              |            |               |                         |                              |                 |             |
| 4500                                 | 64.44          | PK                  | 89           | 1.6        | H             | -4.72                   | 59.72                        | 74              | -14.28      |
| 4500                                 | 50.16          | AV                  | 89           | 1.6        | H             | -4.72                   | 45.44                        | 54              | -8.56       |
| 4500                                 | 64.45          | PK                  | 93           | 2.5        | V             | -4.72                   | 59.73                        | 74              | -14.27      |
| 4500                                 | 50.14          | AV                  | 93           | 2.5        | V             | -4.72                   | 45.42                        | 54              | -8.58       |
| 5150                                 | 69.94          | PK                  | 319          | 2.1        | H             | -2.73                   | 67.21                        | 74              | -6.79       |
| 5150                                 | 54.17          | AV                  | 319          | 2.1        | H             | -2.73                   | 51.44                        | 54              | -2.56       |
| 5150                                 | 64.00          | PK                  | 34           | 1.4        | V             | -2.73                   | 61.27                        | 74              | -12.73      |
| 5150                                 | 51.43          | AV                  | 34           | 1.4        | V             | -2.73                   | 48.70                        | 54              | -5.30       |
| 5180MHz_242Tone_RU61(Worst Case)     |                |                     |              |            |               |                         |                              |                 |             |
| 10360                                | 44.50          | PK                  | 154          | 2          | H             | 8.10                    | 52.60                        | 68.2            | -15.60      |
| 10360                                | 46.93          | PK                  | 196          | 2          | V             | 8.10                    | 55.03                        | 68.2            | -13.17      |
| 5200MHz_242Tone_RU61(Worst Case)     |                |                     |              |            |               |                         |                              |                 |             |
| 10400                                | 44.39          | PK                  | 224          | 1.5        | H             | 8.24                    | 52.63                        | 68.2            | -15.57      |
| 10400                                | 46.80          | PK                  | 125          | 1.5        | V             | 8.24                    | 55.04                        | 68.2            | -13.16      |
| 5240MHz_26Tone_RU8(Worst Case)       |                |                     |              |            |               |                         |                              |                 |             |
| 5350                                 | 64.62          | PK                  | 83           | 2.4        | H             | -2.33                   | 62.29                        | 74              | -11.71      |
| 5350                                 | 51.91          | AV                  | 83           | 2.4        | H             | -2.33                   | 49.58                        | 54              | -4.42       |
| 5350                                 | 63.60          | PK                  | 48           | 1.3        | V             | -2.33                   | 61.27                        | 74              | -12.73      |
| 5350                                 | 51.12          | AV                  | 48           | 1.3        | V             | -2.33                   | 48.79                        | 54              | -5.21       |
| 5460                                 | 63.86          | PK                  | 108          | 1.2        | H             | -2.30                   | 61.56                        | 74              | -12.44      |
| 5460                                 | 51.51          | AV                  | 108          | 1.2        | H             | -2.30                   | 49.21                        | 54              | -4.79       |
| 5460                                 | 63.95          | PK                  | 163          | 1.8        | V             | -2.30                   | 61.65                        | 74              | -12.35      |
| 5460                                 | 51.46          | AV                  | 163          | 1.8        | V             | -2.30                   | 49.16                        | 54              | -4.84       |
| 5240MHz_242Tone_RU61(Worst Case)     |                |                     |              |            |               |                         |                              |                 |             |
| 10480                                | 43.93          | PK                  | 283          | 1.7        | H             | 8.60                    | 52.53                        | 68.2            | -15.67      |
| 10480                                | 44.65          | PK                  | 110          | 1.7        | V             | 8.60                    | 53.25                        | 68.2            | -14.95      |

| Frequency (MHz)                      | Receiver       |                     | Turn-Table<br>Angle Degree | Rx Antenna |               | Corrected Factor (dB/m) | Corrected Amplitude (dBμV/m) | FCC Part 15.407 |             |
|--------------------------------------|----------------|---------------------|----------------------------|------------|---------------|-------------------------|------------------------------|-----------------|-------------|
|                                      | Reading (dBμV) | Detector (PK/QP/AV) |                            | Height (m) | Polar (H / V) |                         |                              | Limit (dBμV/m)  | Margin (dB) |
| 802.11AX40 MIMO + No-BF (Worst case) |                |                     |                            |            |               |                         |                              |                 |             |
| 5190MHz_26Tone_RU0(Worst Case)       |                |                     |                            |            |               |                         |                              |                 |             |
| 4500                                 | 64.13          | PK                  | 53                         | 1.1        | H             | -4.72                   | 59.41                        | 74              | -14.59      |
| 4500                                 | 50.41          | AV                  | 53                         | 1.1        | H             | -4.72                   | 45.69                        | 54              | -8.31       |
| 4500                                 | 63.99          | PK                  | 7                          | 1.5        | V             | -4.72                   | 59.27                        | 74              | -14.73      |
| 4500                                 | 50.53          | AV                  | 7                          | 1.5        | V             | -4.72                   | 45.81                        | 54              | -8.19       |
| 5150                                 | 66.81          | PK                  | 6                          | 1.6        | H             | -2.73                   | 64.08                        | 74              | -9.92       |
| 5150                                 | 52.83          | AV                  | 6                          | 1.6        | H             | -2.73                   | 50.10                        | 54              | -3.90       |
| 5150                                 | 63.86          | PK                  | 38                         | 1.5        | V             | -2.73                   | 61.13                        | 74              | -12.87      |
| 5150                                 | 51.22          | AV                  | 38                         | 1.5        | V             | -2.73                   | 48.49                        | 54              | -5.51       |
| 5190MHz_484Tone_RU65(Worst Case)     |                |                     |                            |            |               |                         |                              |                 |             |
| 10380                                | 44.34          | PK                  | 237                        | 2.1        | H             | 8.20                    | 52.54                        | 68.2            | -15.66      |
| 10380                                | 43.04          | PK                  | 212                        | 2.1        | V             | 8.20                    | 51.24                        | 68.2            | -16.96      |
| 5230MHz_26Tone_RU17(Worst Case)      |                |                     |                            |            |               |                         |                              |                 |             |
| 5350                                 | 64.50          | PK                  | 63                         | 2.5        | H             | -2.33                   | 62.17                        | 74              | -11.83      |
| 5350                                 | 51.61          | AV                  | 63                         | 2.5        | H             | -2.33                   | 49.28                        | 54              | -4.72       |
| 5350                                 | 63.82          | PK                  | 73                         | 1.4        | V             | -2.33                   | 61.49                        | 74              | -12.51      |
| 5350                                 | 51.38          | AV                  | 73                         | 1.4        | V             | -2.33                   | 49.05                        | 54              | -4.95       |
| 5460                                 | 63.71          | PK                  | 347                        | 2.1        | H             | -2.30                   | 61.41                        | 74              | -12.59      |
| 5460                                 | 51.22          | AV                  | 347                        | 2.1        | H             | -2.30                   | 48.92                        | 54              | -5.08       |
| 5460                                 | 64.04          | PK                  | 145                        | 2.4        | V             | -2.30                   | 61.74                        | 74              | -12.26      |
| 5460                                 | 51.64          | AV                  | 145                        | 2.4        | V             | -2.30                   | 49.34                        | 54              | -4.66       |
| 5230MHz_484Tone_RU65(Worst Case)     |                |                     |                            |            |               |                         |                              |                 |             |
| 10460                                | 43.87          | PK                  | 173                        | 1.7        | H             | 8.43                    | 52.30                        | 68.2            | -15.90      |
| 10460                                | 42.30          | PK                  | 174                        | 1.7        | V             | 8.43                    | 50.73                        | 68.2            | -17.47      |

| Frequency<br>(MHz)                   | Receiver          |                        | Turn-<br>Table<br>Angle<br>Degree | Rx Antenna    |                  | Corrected<br>Factor<br>(dB/m) | Corrected<br>Amplitude<br>(dBμV/m) | FCC Part 15.407   |                |
|--------------------------------------|-------------------|------------------------|-----------------------------------|---------------|------------------|-------------------------------|------------------------------------|-------------------|----------------|
|                                      | Reading<br>(dBμV) | Detector<br>(PK/QP/AV) |                                   | Height<br>(m) | Polar<br>(H / V) |                               |                                    | Limit<br>(dBμV/m) | Margin<br>(dB) |
| 802.11AX80 MIMO + No-BF (Worst case) |                   |                        |                                   |               |                  |                               |                                    |                   |                |
| 5210MHz_26Tone_RU0(Worst Case)       |                   |                        |                                   |               |                  |                               |                                    |                   |                |
| 4500                                 | 64.32             | PK                     | 327                               | 2             | H                | -4.72                         | 59.60                              | 74                | -14.40         |
| 4500                                 | 50.24             | AV                     | 327                               | 2             | H                | -4.72                         | 45.52                              | 54                | -8.48          |
| 4500                                 | 64.37             | PK                     | 289                               | 2.3           | V                | -4.72                         | 59.65                              | 74                | -14.35         |
| 4500                                 | 50.24             | AV                     | 289                               | 2.3           | V                | -4.72                         | 45.52                              | 54                | -8.48          |
| 5150                                 | 67.67             | PK                     | 225                               | 1.7           | H                | -2.73                         | 64.94                              | 74                | -9.06          |
| 5150                                 | 54.08             | AV                     | 225                               | 1.7           | H                | -2.73                         | 51.35                              | 54                | -2.65          |
| 5150                                 | 63.94             | PK                     | 141                               | 2.2           | V                | -2.73                         | 61.21                              | 74                | -12.79         |
| 5150                                 | 51.57             | AV                     | 141                               | 2.2           | V                | -2.73                         | 48.84                              | 54                | -5.16          |
| 5210MHz_26Tone_RU36(Worst Case)      |                   |                        |                                   |               |                  |                               |                                    |                   |                |
| 5350                                 | 64.91             | PK                     | 191                               | 2.3           | H                | -2.33                         | 62.58                              | 74                | -11.42         |
| 5350                                 | 51.91             | AV                     | 191                               | 2.3           | H                | -2.33                         | 49.58                              | 54                | -4.42          |
| 5350                                 | 63.72             | PK                     | 188                               | 2.3           | V                | -2.33                         | 61.39                              | 74                | -12.61         |
| 5350                                 | 51.26             | AV                     | 188                               | 2.3           | V                | -2.33                         | 48.93                              | 54                | -5.07          |
| 5460                                 | 64.05             | PK                     | 320                               | 2.5           | H                | -2.30                         | 61.75                              | 74                | -12.25         |
| 5460                                 | 51.34             | AV                     | 320                               | 2.5           | H                | -2.30                         | 49.04                              | 54                | -4.96          |
| 5460                                 | 63.75             | PK                     | 184                               | 1.3           | V                | -2.30                         | 61.45                              | 74                | -12.55         |
| 5460                                 | 51.34             | AV                     | 184                               | 1.3           | V                | -2.30                         | 49.04                              | 54                | -4.96          |
| 5210MHz_996Tone_RU67(Worst Case)     |                   |                        |                                   |               |                  |                               |                                    |                   |                |
| 10420                                | 41.60             | PK                     | 149                               | 1.7           | H                | 8.32                          | 49.92                              | 68.2              | -18.28         |
| 10420                                | 41.53             | PK                     | 356                               | 1.7           | V                | 8.32                          | 49.85                              | 68.2              | -18.35         |

**5250-5350 MHz:**

| Frequency (MHz)          | Receiver       |                     | Turn-Table<br>Angle Degree | Rx Antenna |               | Corrected Factor (dB/m) | Corrected Amplitude (dBμV/m) | FCC Part 15.407 |             |
|--------------------------|----------------|---------------------|----------------------------|------------|---------------|-------------------------|------------------------------|-----------------|-------------|
|                          | Reading (dBμV) | Detector (PK/QP/AV) |                            | Height (m) | Polar (H / V) |                         |                              | Limit (dBμV/m)  | Margin (dB) |
| 802.11A MIMO(Worst case) |                |                     |                            |            |               |                         |                              |                 |             |
| 5260MHz                  |                |                     |                            |            |               |                         |                              |                 |             |
| 4500                     | 64.43          | PK                  | 12                         | 1.6        | H             | -4.72                   | 59.71                        | 74              | -14.29      |
| 4500                     | 50.43          | AV                  | 32                         | 1.6        | H             | -4.72                   | 45.71                        | 54              | -8.29       |
| 4500                     | 63.92          | PK                  | 163                        | 1.7        | V             | -4.72                   | 59.20                        | 74              | -14.8       |
| 4500                     | 50.49          | AV                  | 169                        | 1.7        | V             | -4.72                   | 45.77                        | 54              | -8.23       |
| 5150                     | 65.12          | PK                  | 51                         | 1.9        | H             | -2.73                   | 62.39                        | 74              | -11.61      |
| 5150                     | 53.91          | AV                  | 164                        | 1.9        | H             | -2.73                   | 51.18                        | 54              | -2.82       |
| 5150                     | 63.83          | PK                  | 211                        | 1.6        | V             | -2.73                   | 61.10                        | 74              | -12.9       |
| 5150                     | 51.45          | AV                  | 263                        | 1.6        | V             | -2.73                   | 48.72                        | 54              | -5.28       |
| 10520                    | 44.48          | PK                  | 69                         | 1.7        | H             | 8.65                    | 53.13                        | 68.2            | -15.07      |
| 10520                    | 46.25          | PK                  | 113                        | 1.7        | V             | 8.65                    | 54.90                        | 68.2            | -13.30      |
| 5280MHz                  |                |                     |                            |            |               |                         |                              |                 |             |
| 10560                    | 45.21          | PK                  | 186                        | 2.1        | H             | 8.65                    | 53.86                        | 68.2            | -14.34      |
| 10560                    | 46.82          | PK                  | 253                        | 2.1        | V             | 8.65                    | 55.47                        | 68.2            | -12.73      |
| 5320MHz                  |                |                     |                            |            |               |                         |                              |                 |             |
| 5350                     | 69.07          | PK                  | 345                        | 2.2        | H             | -2.33                   | 66.74                        | 74              | -7.26       |
| 5350                     | 55.17          | AV                  | 345                        | 2.2        | H             | -2.33                   | 52.84                        | 54              | -1.16       |
| 5350                     | 63.91          | PK                  | 245                        | 1.5        | V             | -2.33                   | 61.58                        | 74              | -12.42      |
| 5350                     | 51.24          | AV                  | 245                        | 1.5        | V             | -2.33                   | 48.91                        | 54              | -5.09       |
| 5460                     | 63.86          | PK                  | 280                        | 2.3        | H             | -2.30                   | 61.56                        | 74              | -12.44      |
| 5460                     | 51.54          | AV                  | 280                        | 2.3        | H             | -2.30                   | 49.24                        | 54              | -4.76       |
| 5460                     | 63.75          | PK                  | 155                        | 2.5        | V             | -2.30                   | 61.45                        | 74              | -12.55      |
| 5460                     | 51.21          | AV                  | 155                        | 2.5        | V             | -2.30                   | 48.91                        | 54              | -5.09       |
| 10640                    | 47.03          | PK                  | 317                        | 1          | H             | 8.93                    | 55.96                        | 74              | -18.04      |
| 10640                    | 37.86          | AV                  | 317                        | 1          | H             | 8.93                    | 46.79                        | 54              | -7.21       |
| 10640                    | 47.68          | PK                  | 241                        | 2.4        | V             | 8.93                    | 56.61                        | 74              | -17.39      |
| 10640                    | 43.98          | AV                  | 241                        | 2.4        | V             | 8.93                    | 52.91                        | 54              | -1.09       |

| Frequency<br>(MHz)                  | Receiver                |                        | Turn-<br>Table<br>Angle<br>Degree | Rx Antenna    |                  | Corrected<br>Factor<br>(dB/m) | Corrected<br>Amplitude<br>(dB $\mu$ V/m) | FCC Part 15.407         |                |
|-------------------------------------|-------------------------|------------------------|-----------------------------------|---------------|------------------|-------------------------------|--|-------------------------|----------------|
|                                     | Reading<br>(dB $\mu$ V) | Detector<br>(PK/QP/AV) |                                   | Height<br>(m) | Polar<br>(H / V) |                               |  | Limit<br>(dB $\mu$ V/m) | Margin<br>(dB) |
| 802.11N20 MIMO + No-BF (Worst case) |                         |                        |                                   |               |                  |                               |  |                         |                |
| 5260MHz                             |                         |                        |                                   |               |                  |                               |  |                         |                |
| 4500                                | 64.10                   | PK                     | 85                                | 2             | H                | -4.72                         | 59.38                                    | 74                      | -14.62         |
| 4500                                | 50.11                   | AV                     | 49                                | 2             | H                | -4.72                         | 45.39                                    | 54                      | -8.61          |
| 4500                                | 63.92                   | PK                     | 355                               | 1.1           | V                | -4.72                         | 59.20                                    | 74                      | -14.8          |
| 4500                                | 50.04                   | AV                     | 158                               | 1.1           | V                | -4.72                         | 45.32                                    | 54                      | -8.68          |
| 5150                                | 64.48                   | PK                     | 340                               | 1.4           | H                | -2.73                         | 61.75                                    | 74                      | -12.25         |
| 5150                                | 51.44                   | AV                     | 295                               | 1.4           | H                | -2.73                         | 48.71                                    | 54                      | -5.29          |
| 5150                                | 63.87                   | PK                     | 283                               | 1.9           | V                | -2.73                         | 61.14                                    | 74                      | -12.86         |
| 5150                                | 51.20                   | AV                     | 224                               | 1.9           | V                | -2.73                         | 48.47                                    | 54                      | -5.53          |
| 10520                               | 43.27                   | PK                     | 283                               | 1.2           | H                | 8.65                          | 51.92                                    | 68.2                    | -16.28         |
| 10520                               | 44.98                   | PK                     | 11                                | 1.2           | V                | 8.65                          | 53.63                                    | 68.2                    | -14.57         |
| 5280MHz                             |                         |                        |                                   |               |                  |                               |  |                         |                |
| 10560                               | 45.24                   | PK                     | 288                               | 1.4           | H                | 8.65                          | 53.89                                    | 68.2                    | -14.31         |
| 10560                               | 46.72                   | PK                     | 138                               | 1.4           | V                | 8.65                          | 55.37                                    | 68.2                    | -12.83         |
| 5320MHz                             |                         |                        |                                   |               |                  |                               |  |                         |                |
| 5350                                | 69.68                   | PK                     | 156                               | 1.1           | H                | -2.33                         | 67.35                                    | 74                      | -6.65          |
| 5350                                | 54.49                   | AV                     | 156                               | 1.1           | H                | -2.33                         | 52.16                                    | 54                      | -1.84          |
| 5350                                | 65.41                   | PK                     | 213                               | 1.9           | V                | -2.33                         | 63.08                                    | 74                      | -10.92         |
| 5350                                | 51.77                   | AV                     | 213                               | 1.9           | V                | -2.33                         | 49.44                                    | 54                      | -4.56          |
| 5460                                | 64.06                   | PK                     | 157                               | 1.2           | H                | -2.30                         | 61.76                                    | 74                      | -12.24         |
| 5460                                | 51.08                   | AV                     | 157                               | 1.2           | H                | -2.30                         | 48.78                                    | 54                      | -5.22          |
| 5460                                | 63.71                   | PK                     | 227                               | 1.5           | V                | -2.30                         | 61.41                                    | 74                      | -12.59         |
| 5460                                | 50.92                   | AV                     | 227                               | 1.5           | V                | -2.30                         | 48.62                                    | 54                      | -5.38          |
| 10640                               | 44.63                   | PK                     | 155                               | 2.3           | H                | 8.93                          | 53.56                                    | 74                      | -20.44         |
| 10640                               | 45.70                   | PK                     | 323                               | 1.4           | V                | 8.93                          | 54.63                                    | 74                      | -19.37         |
| 10640                               | 38.19                   | AV                     | 323                               | 1.4           | V                | 8.93                          | 47.12                                    | 54                      | -6.88          |

| Frequency (MHz)                     | Receiver       |                     | Turn-Table<br>Angle Degree | Rx Antenna |               | Corrected Factor (dB/m) | Corrected Amplitude (dBμV/m) | FCC Part 15.407 |             |
|-------------------------------------|----------------|---------------------|----------------------------|------------|---------------|-------------------------|------------------------------|-----------------|-------------|
|                                     | Reading (dBμV) | Detector (PK/QP/AV) |                            | Height (m) | Polar (H / V) |                         |                              | Limit (dBμV/m)  | Margin (dB) |
| 802.11N40 MIMO + No-BF (Worst case) |                |                     |                            |            |               |                         |                              |                 |             |
| 5270MHz                             |                |                     |                            |            |               |                         |                              |                 |             |
| 4500                                | 64.13          | PK                  | 230                        | 1          | H             | -4.72                   | 59.41                        | 74              | -14.59      |
| 4500                                | 50.08          | AV                  | 88                         | 1          | H             | -4.72                   | 45.36                        | 54              | -8.64       |
| 4500                                | 63.97          | PK                  | 46                         | 1.5        | V             | -4.72                   | 59.25                        | 74              | -14.75      |
| 4500                                | 50.02          | AV                  | 195                        | 1.5        | V             | -4.72                   | 45.30                        | 54              | -8.7        |
| 5150                                | 65.30          | PK                  | 332                        | 2.2        | H             | -2.73                   | 62.57                        | 74              | -11.43      |
| 5150                                | 51.35          | AV                  | 46                         | 2.2        | H             | -2.73                   | 48.62                        | 54              | -5.38       |
| 5150                                | 64.52          | PK                  | 130                        | 1.8        | V             | -2.73                   | 61.79                        | 74              | -12.21      |
| 5150                                | 50.96          | AV                  | 66                         | 1.8        | V             | -2.73                   | 48.23                        | 54              | -5.77       |
| 10540                               | 43.61          | PK                  | 31                         | 1.3        | H             | 8.65                    | 52.26                        | 68.2            | -15.94      |
| 10540                               | 44.92          | PK                  | 140                        | 1.3        | V             | 8.65                    | 53.57                        | 68.2            | -14.63      |
| 5310MHz                             |                |                     |                            |            |               |                         |                              |                 |             |
| 5350                                | 70.46          | PK                  | 286                        | 2.2        | H             | -2.33                   | 68.13                        | 74              | -5.87       |
| 5350                                | 55.15          | AV                  | 286                        | 2.2        | H             | -2.33                   | 52.82                        | 54              | -1.18       |
| 5350                                | 64.81          | PK                  | 102                        | 1.7        | V             | -2.33                   | 62.48                        | 74              | -11.52      |
| 5350                                | 51.75          | AV                  | 102                        | 1.7        | V             | -2.33                   | 49.42                        | 54              | -4.58       |
| 5460                                | 64.02          | PK                  | 191                        | 1.6        | H             | -2.30                   | 61.72                        | 74              | -12.28      |
| 5460                                | 50.95          | AV                  | 191                        | 1.6        | H             | -2.30                   | 48.65                        | 54              | -5.35       |
| 5460                                | 63.78          | PK                  | 327                        | 1.4        | V             | -2.30                   | 61.48                        | 74              | -12.52      |
| 5460                                | 50.83          | AV                  | 327                        | 1.4        | V             | -2.30                   | 48.53                        | 54              | -5.47       |
| 10620                               | 44.36          | PK                  | 164                        | 2.2        | H             | 8.80                    | 53.16                        | 74              | -20.84      |
| 10620                               | 45.93          | PK                  | 109                        | 1.7        | V             | 8.80                    | 54.73                        | 74              | -19.27      |
| 10620                               | 38.25          | AV                  | 200                        | 1.7        | V             | 8.80                    | 47.05                        | 54              | -6.95       |

| Frequency (MHz)                      | Receiver       |                     | Turn-Table<br>Angle Degree | Rx Antenna |               | Corrected Factor (dB/m) | Corrected Amplitude (dBμV/m) | FCC Part 15.407 |             |
|--------------------------------------|----------------|---------------------|----------------------------|------------|---------------|-------------------------|------------------------------|-----------------|-------------|
|                                      | Reading (dBμV) | Detector (PK/QP/AV) |                            | Height (m) | Polar (H / V) |                         |                              | Limit (dBμV/m)  | Margin (dB) |
| 802.11AC20 MIMO + No-BF (Worst case) |                |                     |                            |            |               |                         |                              |                 |             |
| 5260MHz                              |                |                     |                            |            |               |                         |                              |                 |             |
| 4500                                 | 64.24          | PK                  | 82                         | 1.9        | H             | -4.72                   | 59.52                        | 74              | -14.48      |
| 4500                                 | 50.15          | AV                  | 352                        | 1.9        | H             | -4.72                   | 45.43                        | 54              | -8.57       |
| 4500                                 | 64.01          | PK                  | 346                        | 1          | V             | -4.72                   | 59.29                        | 74              | -14.71      |
| 4500                                 | 50.08          | AV                  | 315                        | 1          | V             | -4.72                   | 45.36                        | 54              | -8.64       |
| 5150                                 | 64.84          | PK                  | 50                         | 2.2        | H             | -2.73                   | 62.11                        | 74              | -11.89      |
| 5150                                 | 51.59          | AV                  | 318                        | 2.2        | H             | -2.73                   | 48.86                        | 54              | -5.14       |
| 5150                                 | 64.20          | PK                  | 271                        | 2.4        | V             | -2.73                   | 61.47                        | 74              | -12.53      |
| 5150                                 | 51.26          | AV                  | 194                        | 2.4        | V             | -2.73                   | 48.53                        | 54              | -5.47       |
| 10520                                | 43.79          | PK                  | 52                         | 1.4        | H             | 8.65                    | 52.44                        | 68.2            | -15.76      |
| 10520                                | 45.07          | PK                  | 261                        | 1.4        | V             | 8.65                    | 53.72                        | 68.2            | -14.48      |
| 5280MHz                              |                |                     |                            |            |               |                         |                              |                 |             |
| 10560                                | 45.08          | PK                  | 266                        | 2          | H             | 8.65                    | 53.73                        | 68.2            | -14.47      |
| 10560                                | 46.63          | PK                  | 331                        | 2          | V             | 8.65                    | 55.28                        | 68.2            | -12.92      |
| 5320MHz                              |                |                     |                            |            |               |                         |                              |                 |             |
| 5350                                 | 70.76          | PK                  | 191                        | 2.5        | H             | -2.33                   | 68.43                        | 74              | -5.57       |
| 5350                                 | 54.70          | AV                  | 191                        | 2.5        | H             | -2.33                   | 52.37                        | 54              | -1.63       |
| 5350                                 | 65.47          | PK                  | 7                          | 1.9        | V             | -2.33                   | 63.14                        | 74              | -10.86      |
| 5350                                 | 51.79          | AV                  | 7                          | 1.9        | V             | -2.33                   | 49.46                        | 54              | -4.54       |
| 5460                                 | 64.08          | PK                  | 294                        | 1.2        | H             | -2.30                   | 61.78                        | 74              | -12.22      |
| 5460                                 | 51.19          | AV                  | 294                        | 1.2        | H             | -2.30                   | 48.89                        | 54              | -5.11       |
| 5460                                 | 63.85          | PK                  | 220                        | 2.3        | V             | -2.30                   | 61.55                        | 74              | -12.45      |
| 5460                                 | 51.06          | AV                  | 220                        | 2.3        | V             | -2.30                   | 48.76                        | 54              | -5.24       |
| 10640                                | 44.94          | PK                  | 56                         | 1.1        | H             | 8.93                    | 53.87                        | 74              | -20.13      |
| 10640                                | 46.12          | PK                  | 92                         | 1.3        | V             | 8.93                    | 55.05                        | 74              | -18.95      |
| 10640                                | 38.30          | AV                  | 92                         | 1.3        | V             | 8.93                    | 47.23                        | 54              | -6.77       |



| Frequency<br>(MHz)                   | Receiver          |                        | Turn-<br>Table<br>Angle<br>Degree | Rx Antenna    |                  | Corrected<br>Factor<br>(dB/m) | Corrected<br>Amplitude<br>(dBμV/m) | FCC Part 15.407   |                |
|--------------------------------------|-------------------|------------------------|-----------------------------------|---------------|------------------|-------------------------------|------------------------------------|-------------------|----------------|
|                                      | Reading<br>(dBμV) | Detector<br>(PK/QP/AV) |                                   | Height<br>(m) | Polar<br>(H / V) |                               |                                    | Limit<br>(dBμV/m) | Margin<br>(dB) |
| 802.11AC40 MIMO + No-BF (Worst case) |                   |                        |                                   |               |                  |                               |                                    |                   |                |
| 5270MHz                              |                   |                        |                                   |               |                  |                               |                                    |                   |                |
| 4500                                 | 64.30             | PK                     | 59                                | 1.6           | H                | -4.72                         | 59.58                              | 74                | -14.42         |
| 4500                                 | 50.19             | AV                     | 149                               | 1.6           | H                | -4.72                         | 45.47                              | 54                | -8.53          |
| 4500                                 | 64.15             | PK                     | 208                               | 2.3           | V                | -4.72                         | 59.43                              | 74                | -14.57         |
| 4500                                 | 50.12             | AV                     | 190                               | 2.3           | V                | -4.72                         | 45.40                              | 54                | -8.6           |
| 5150                                 | 65.48             | PK                     | 197                               | 1.4           | H                | -2.73                         | 62.75                              | 74                | -11.25         |
| 5150                                 | 51.49             | AV                     | 92                                | 1.4           | H                | -2.73                         | 48.76                              | 54                | -5.24          |
| 5150                                 | 64.50             | PK                     | 171                               | 1.2           | V                | -2.73                         | 61.77                              | 74                | -12.23         |
| 5150                                 | 51.15             | AV                     | 100                               | 1.2           | V                | -2.73                         | 48.42                              | 54                | -5.58          |
| 10540                                | 43.88             | PK                     | 265                               | 1.1           | H                | 8.65                          | 52.53                              | 68.2              | -15.67         |
| 10540                                | 45.17             | PK                     | 326                               | 1.1           | V                | 8.65                          | 53.82                              | 68.2              | -14.38         |
| 5310MHz                              |                   |                        |                                   |               |                  |                               |                                    |                   |                |
| 5350                                 | 71.61             | PK                     | 25                                | 2.1           | H                | -2.33                         | 69.28                              | 74                | -4.72          |
| 5350                                 | 55.24             | AV                     | 25                                | 2.1           | H                | -2.33                         | 52.91                              | 54                | -1.09          |
| 5350                                 | 65.17             | PK                     | 150                               | 1.3           | V                | -2.33                         | 62.84                              | 74                | -11.16         |
| 5350                                 | 51.86             | AV                     | 150                               | 1.3           | V                | -2.33                         | 49.53                              | 54                | -4.47          |
| 5460                                 | 64.13             | PK                     | 55                                | 1.6           | H                | -2.30                         | 61.83                              | 74                | -12.17         |
| 5460                                 | 51.04             | AV                     | 55                                | 1.6           | H                | -2.30                         | 48.74                              | 54                | -5.26          |
| 5460                                 | 63.95             | PK                     | 4                                 | 1.8           | V                | -2.30                         | 61.65                              | 74                | -12.35         |
| 5460                                 | 50.90             | AV                     | 4                                 | 1.8           | V                | -2.30                         | 48.6                               | 54                | -5.4           |
| 10620                                | 44.64             | PK                     | 320                               | 1.9           | H                | 8.80                          | 53.44                              | 74                | -20.56         |
| 10620                                | 46.03             | PK                     | 300                               | 1.7           | V                | 8.80                          | 54.83                              | 74                | -19.17         |
| 10620                                | 38.29             | AV                     | 275                               | 1.7           | V                | 8.80                          | 47.09                              | 54                | -6.91          |

| Frequency<br>(MHz)                   | Receiver          |                        | Turn-<br>Table<br>Angle<br>Degree | Rx Antenna    |                  | Corrected<br>Factor<br>(dB/m) | Corrected<br>Amplitude<br>(dBμV/m) | FCC Part 15.407   |                |
|--------------------------------------|-------------------|------------------------|-----------------------------------|---------------|------------------|-------------------------------|------------------------------------|-------------------|----------------|
|                                      | Reading<br>(dBμV) | Detector<br>(PK/QP/AV) |                                   | Height<br>(m) | Polar<br>(H / V) |                               |                                    | Limit<br>(dBμV/m) | Margin<br>(dB) |
| 802.11AC80 MIMO + No-BF (Worst case) |                   |                        |                                   |               |                  |                               |                                    |                   |                |
| 5290MHz                              |                   |                        |                                   |               |                  |                               |                                    |                   |                |
| 4500                                 | 66.34             | PK                     | 238                               | 2.2           | H                | -4.72                         | 61.62                              | 74                | -12.38         |
| 4500                                 | 52.65             | AV                     | 178                               | 2.2           | H                | -4.72                         | 47.93                              | 54                | -6.07          |
| 4500                                 | 66.10             | PK                     | 200                               | 1.7           | V                | -4.72                         | 61.38                              | 74                | -12.62         |
| 4500                                 | 52.49             | AV                     | 63                                | 1.7           | V                | -4.72                         | 47.77                              | 54                | -6.23          |
| 5150                                 | 63.52             | PK                     | 282                               | 1.6           | H                | -2.73                         | 60.79                              | 74                | -13.21         |
| 5150                                 | 49.85             | AV                     | 306                               | 1.6           | H                | -2.73                         | 47.12                              | 54                | -6.88          |
| 5150                                 | 63.56             | PK                     | 92                                | 1.8           | V                | -2.73                         | 60.83                              | 74                | -13.17         |
| 5150                                 | 49.71             | AV                     | 240                               | 1.8           | V                | -2.73                         | 46.98                              | 54                | -7.02          |
| 5350                                 | 69.86             | PK                     | 324                               | 2.2           | H                | -2.33                         | 67.53                              | 74                | -6.47          |
| 5350                                 | 55.31             | AV                     | 324                               | 2.2           | H                | -2.33                         | 52.98                              | 54                | -1.02          |
| 5350                                 | 65.37             | PK                     | 10                                | 1.7           | V                | -2.33                         | 63.04                              | 74                | -10.96         |
| 5350                                 | 51.13             | AV                     | 10                                | 1.7           | V                | -2.33                         | 48.8                               | 54                | -5.2           |
| 5460                                 | 69.18             | PK                     | 132                               | 2.4           | H                | -2.30                         | 66.88                              | 74                | -7.12          |
| 5460                                 | 53.96             | AV                     | 132                               | 2.4           | H                | -2.30                         | 51.66                              | 54                | -2.34          |
| 5460                                 | 64.88             | PK                     | 172                               | 2.3           | V                | -2.30                         | 62.58                              | 74                | -11.42         |
| 5460                                 | 50.63             | AV                     | 172                               | 2.3           | V                | -2.30                         | 48.33                              | 54                | -5.67          |
| 10580                                | 44.94             | PK                     | 319                               | 1.4           | H                | 8.70                          | 53.64                              | 68.2              | -14.56         |
| 10580                                | 46.53             | PK                     | 316                               | 1.4           | V                | 8.70                          | 55.23                              | 68.2              | -12.97         |

| Frequency (MHz)                      | Receiver       |                     | Turn-Table<br>Angle Degree | Rx Antenna |               | Corrected Factor (dB/m) | Corrected Amplitude (dBμV/m) | FCC Part 15.407 |             |
|--------------------------------------|----------------|---------------------|----------------------------|------------|---------------|-------------------------|------------------------------|-----------------|-------------|
|                                      | Reading (dBμV) | Detector (PK/QP/AV) |                            | Height (m) | Polar (H / V) |                         |                              | Limit (dBμV/m)  | Margin (dB) |
| 802.11AX20 MIMO + No-BF (Worst case) |                |                     |                            |            |               |                         |                              |                 |             |
| 5260MHz_26Tone_RU0(Worst Case)       |                |                     |                            |            |               |                         |                              |                 |             |
| 4500                                 | 64.34          | PK                  | 243                        | 1          | H             | -4.72                   | 59.62                        | 74              | -14.38      |
| 4500                                 | 50.22          | AV                  | 12                         | 1          | H             | -4.72                   | 45.50                        | 54              | -8.5        |
| 4500                                 | 64.20          | PK                  | 292                        | 1.5        | V             | -4.72                   | 59.48                        | 74              | -14.52      |
| 4500                                 | 50.13          | AV                  | 141                        | 1.5        | V             | -4.72                   | 45.41                        | 54              | -8.59       |
| 5150                                 | 64.82          | PK                  | 301                        | 1.8        | H             | -2.73                   | 62.09                        | 74              | -11.91      |
| 5150                                 | 51.57          | AV                  | 121                        | 1.8        | H             | -2.73                   | 48.84                        | 54              | -5.16       |
| 5150                                 | 64.08          | PK                  | 80                         | 1.4        | V             | -2.73                   | 61.35                        | 74              | -12.65      |
| 5150                                 | 51.24          | AV                  | 234                        | 1.4        | V             | -2.73                   | 48.51                        | 54              | -5.49       |
| 5260MHz_242Tone_RU61(Worst Case)     |                |                     |                            |            |               |                         |                              |                 |             |
| 10520                                | 44.11          | PK                  | 239                        | 2.4        | H             | 8.65                    | 52.76                        | 68.2            | -15.44      |
| 10520                                | 45.42          | PK                  | 360                        | 2.4        | V             | 8.65                    | 54.07                        | 68.2            | -14.13      |
| 5280MHz_242Tone_RU61(Worst Case)     |                |                     |                            |            |               |                         |                              |                 |             |
| 10560                                | 45.38          | PK                  | 347                        | 2.2        | H             | 8.65                    | 54.03                        | 68.2            | -14.17      |
| 10560                                | 46.34          | PK                  | 290                        | 2.2        | V             | 8.65                    | 54.99                        | 68.2            | -13.21      |
| 5320MHz_26Tone_RU8(Worst Case)       |                |                     |                            |            |               |                         |                              |                 |             |
| 5350                                 | 70.41          | PK                  | 66                         | 2          | H             | -2.33                   | 68.08                        | 74              | -5.92       |
| 5350                                 | 54.85          | AV                  | 66                         | 2          | H             | -2.33                   | 52.52                        | 54              | -1.48       |
| 5350                                 | 65.60          | PK                  | 99                         | 1.5        | V             | -2.33                   | 63.27                        | 74              | -10.73      |
| 5350                                 | 51.76          | AV                  | 99                         | 1.5        | V             | -2.33                   | 49.43                        | 54              | -4.57       |
| 5460                                 | 64.04          | PK                  | 47                         | 1.3        | H             | -2.30                   | 61.74                        | 74              | -12.26      |
| 5460                                 | 51.13          | AV                  | 47                         | 1.3        | H             | -2.30                   | 48.83                        | 54              | -5.17       |
| 5460                                 | 66.80          | PK                  | 228                        | 1.3        | V             | -2.30                   | 64.5                         | 74              | -9.5        |
| 5460                                 | 50.92          | AV                  | 228                        | 1.3        | V             | -2.30                   | 48.62                        | 54              | -5.38       |
| 5320MHz_242Tone_RU61(Worst Case)     |                |                     |                            |            |               |                         |                              |                 |             |
| 10640                                | 45.09          | PK                  | 152                        | 1.8        | H             | 8.93                    | 54.02                        | 74              | -19.98      |
| 10640                                | 36.50          | AV                  | 152                        | 1.8        | H             | 8.93                    | 45.43                        | 54              | -8.57       |
| 10640                                | 46.27          | PK                  | 67                         | 2.1        | V             | 8.93                    | 55.20                        | 74              | -18.80      |
| 10640                                | 38.06          | AV                  | 67                         | 2.1        | V             | 8.93                    | 46.99                        | 54              | -7.01       |

| Frequency<br>(MHz)                   | Receiver          |                        | Turn-<br>Table<br>Angle<br>Degree | Rx Antenna    |                  | Corrected<br>Factor<br>(dB/m) | Corrected<br>Amplitude<br>(dBμV/m) | FCC Part 15.407   |                |
|--------------------------------------|-------------------|------------------------|-----------------------------------|---------------|------------------|-------------------------------|------------------------------------|-------------------|----------------|
|                                      | Reading<br>(dBμV) | Detector<br>(PK/QP/AV) |                                   | Height<br>(m) | Polar<br>(H / V) |                               |                                    | Limit<br>(dBμV/m) | Margin<br>(dB) |
| 802.11AX40 MIMO + No-BF (Worst case) |                   |                        |                                   |               |                  |                               |                                    |                   |                |
| 5270MHz_26Tone_RU0(Worst Case)       |                   |                        |                                   |               |                  |                               |                                    |                   |                |
| 4500                                 | 64.45             | PK                     | 122                               | 1.2           | H                | -4.72                         | 59.73                              | 74                | -14.27         |
| 4500                                 | 50.31             | AV                     | 148                               | 1.2           | H                | -4.72                         | 45.59                              | 54                | -8.41          |
| 4500                                 | 65.34             | PK                     | 186                               | 1.1           | V                | -4.72                         | 60.62                              | 74                | -13.38         |
| 4500                                 | 50.20             | AV                     | 243                               | 1.1           | V                | -4.72                         | 45.48                              | 54                | -8.52          |
| 5150                                 | 65.09             | PK                     | 324                               | 1             | H                | -2.73                         | 62.36                              | 74                | -11.64         |
| 5150                                 | 51.55             | AV                     | 325                               | 1             | H                | -2.73                         | 48.82                              | 54                | -5.18          |
| 5150                                 | 64.30             | PK                     | 60                                | 1.4           | V                | -2.73                         | 61.57                              | 74                | -12.43         |
| 5150                                 | 51.14             | AV                     | 111                               | 1.4           | V                | -2.73                         | 48.41                              | 54                | -5.59          |
| 5270MHz_484Tone_RU65(Worst Case)     |                   |                        |                                   |               |                  |                               |                                    |                   |                |
| 10540                                | 43.98             | PK                     | 352                               | 1.3           | H                | 8.65                          | 52.63                              | 68.2              | -15.57         |
| 10540                                | 45.04             | PK                     | 280                               | 1.3           | V                | 8.65                          | 53.69                              | 68.2              | -14.51         |
| 5310MHz_26Tone_RU17(Worst Case)      |                   |                        |                                   |               |                  |                               |                                    |                   |                |
| 5350                                 | 72.44             | PK                     | 213                               | 1.9           | H                | -2.33                         | 70.11                              | 74                | -3.89          |
| 5350                                 | 55.06             | AV                     | 213                               | 1.9           | H                | -2.33                         | 52.73                              | 54                | -1.27          |
| 5350                                 | 65.58             | PK                     | 111                               | 1.5           | V                | -2.33                         | 63.25                              | 74                | -10.75         |
| 5350                                 | 51.81             | AV                     | 111                               | 1.5           | V                | -2.33                         | 49.48                              | 54                | -4.52          |
| 5460                                 | 63.95             | PK                     | 92                                | 1.8           | H                | -2.30                         | 61.65                              | 74                | -12.35         |
| 5460                                 | 51.03             | AV                     | 92                                | 1.8           | H                | -2.30                         | 48.73                              | 54                | -5.27          |
| 5460                                 | 63.76             | PK                     | 263                               | 2.3           | V                | -2.30                         | 61.46                              | 74                | -12.54         |
| 5460                                 | 50.91             | AV                     | 263                               | 2.3           | V                | -2.30                         | 48.61                              | 54                | -5.39          |
| 5310MHz_484Tone_RU65(Worst Case)     |                   |                        |                                   |               |                  |                               |                                    |                   |                |
| 10620                                | 44.52             | PK                     | 21                                | 1.2           | H                | 8.80                          | 53.32                              | 74                | -20.68         |
| 10620                                | 46.25             | PK                     | 56                                | 1.4           | V                | 8.80                          | 55.05                              | 74                | -18.95         |
| 10620                                | 38.00             | AV                     | 7                                 | 1.4           | V                | 8.80                          | 46.80                              | 54                | -7.20          |

| Frequency<br>(MHz)                   | Receiver          |                        | Turn-<br>Table  | Rx Antenna    |                  | Corrected<br>Factor<br>(dB/m) | Corrected<br>Amplitude<br>(dBμV/m) | FCC Part 15.407   |                |
|--------------------------------------|-------------------|------------------------|-----------------|---------------|------------------|-------------------------------|------------------------------------|-------------------|----------------|
|                                      | Reading<br>(dBμV) | Detector<br>(PK/QP/AV) | Angle<br>Degree | Height<br>(m) | Polar<br>(H / V) |                               |                                    | Limit<br>(dBμV/m) | Margin<br>(dB) |
| 802.11AX80 MIMO + No-BF (Worst case) |                   |                        |                 |               |                  |                               |                                    |                   |                |
| 5290MHz_26Tone_RU0(Worst Case)       |                   |                        |                 |               |                  |                               |                                    |                   |                |
| 4500                                 | 66.86             | PK                     | 336             | 2.3           | H                | -4.72                         | 62.14                              | 74                | -11.86         |
| 4500                                 | 52.81             | AV                     | 43              | 2.3           | H                | -4.72                         | 48.09                              | 54                | -5.91          |
| 4500                                 | 66.25             | PK                     | 120             | 2             | V                | -4.72                         | 61.53                              | 74                | -12.47         |
| 4500                                 | 52.67             | AV                     | 263             | 2             | V                | -4.72                         | 47.95                              | 54                | -6.05          |
| 5150                                 | 64.09             | PK                     | 107             | 1.1           | H                | -2.73                         | 61.36                              | 74                | -12.64         |
| 5150                                 | 50.61             | AV                     | 240             | 1.1           | H                | -2.73                         | 47.88                              | 54                | -6.12          |
| 5150                                 | 63.89             | PK                     | 220             | 1.6           | V                | -2.73                         | 61.16                              | 74                | -12.84         |
| 5150                                 | 50.60             | AV                     | 241             | 1.6           | V                | -2.73                         | 47.87                              | 54                | -6.13          |
| 5290MHz_26Tone_RU36(Worst Case)      |                   |                        |                 |               |                  |                               |                                    |                   |                |
| 5350                                 | 70.59             | PK                     | 36              | 2             | H                | -2.33                         | 68.26                              | 74                | -5.74          |
| 5350                                 | 55.14             | AV                     | 36              | 2             | H                | -2.33                         | 52.81                              | 54                | -1.19          |
| 5350                                 | 65.30             | PK                     | 254             | 1.5           | V                | -2.33                         | 62.97                              | 74                | -11.03         |
| 5350                                 | 51.37             | AV                     | 254             | 1.5           | V                | -2.33                         | 49.04                              | 54                | -4.96          |
| 5460                                 | 69.99             | PK                     | 323             | 1.5           | H                | -2.30                         | 67.69                              | 74                | -6.31          |
| 5460                                 | 53.93             | AV                     | 323             | 1.5           | H                | -2.30                         | 51.63                              | 54                | -2.37          |
| 5460                                 | 63.84             | PK                     | 96              | 2.5           | V                | -2.30                         | 61.54                              | 74                | -12.46         |
| 5460                                 | 51.12             | AV                     | 96              | 2.5           | V                | -2.30                         | 48.82                              | 54                | -5.18          |
| 5290MHz_996Tone_RU67(Worst Case)     |                   |                        |                 |               |                  |                               |                                    |                   |                |
| 10580                                | 45.07             | PK                     | 83              | 1.1           | H                | 8.70                          | 53.77                              | 68.2              | -14.43         |
| 10580                                | 46.40             | PK                     | 145             | 1.1           | V                | 8.70                          | 55.10                              | 68.2              | -13.10         |

**5470-5725MHz:**

| Frequency (MHz)          | Receiver       |                     | Turn-Table   | Rx Antenna |               | Corrected Factor (dB/m) | Corrected Amplitude (dBμV/m) | FCC Part 15.407 |             |
|--------------------------|----------------|---------------------|--------------|------------|---------------|-------------------------|------------------------------|-----------------|-------------|
|                          | Reading (dBμV) | Detector (PK/QP/AV) | Angle Degree | Height (m) | Polar (H / V) |                         |                              | Limit (dBμV/m)  | Margin (dB) |
| 802.11A MIMO(Worst case) |                |                     |              |            |               |                         |                              |                 |             |
| 5500MHz                  |                |                     |              |            |               |                         |                              |                 |             |
| 5460                     | 63.78          | PK                  | 119          | 2.2        | H             | -2.26                   | 61.52                        | 74              | -12.48      |
| 5460                     | 51.45          | AV                  | 119          | 2.2        | H             | -2.26                   | 49.19                        | 54              | -4.81       |
| 5460                     | 63.51          | PK                  | 297          | 1.8        | V             | -2.26                   | 61.25                        | 74              | -12.75      |
| 5460                     | 50.99          | AV                  | 297          | 1.8        | V             | -2.26                   | 48.73                        | 54              | -5.27       |
| 5470                     | 66.66          | PK                  | 160          | 1.1        | H             | -2.20                   | 64.46                        | 68.2            | -3.74       |
| 5470                     | 64.91          | PK                  | 86           | 1.9        | V             | -2.20                   | 62.71                        | 68.2            | -5.49       |
| 11000                    | 42.81          | PK                  | 261          | 2          | H             | 9.67                    | 52.48                        | 74              | -21.52      |
| 11000                    | 43.57          | PK                  | 156          | 1.5        | V             | 9.67                    | 53.24                        | 74              | -20.76      |
| 5580MHz                  |                |                     |              |            |               |                         |                              |                 |             |
| 11160                    | 44.17          | PK                  | 234          | 1.8        | H             | 8.60                    | 52.77                        | 74              | -21.23      |
| 11160                    | 44.83          | PK                  | 238          | 1.8        | V             | 8.60                    | 53.43                        | 74              | -20.57      |
| 5700MHz                  |                |                     |              |            |               |                         |                              |                 |             |
| 5725                     | 69.19          | PK                  | 264          | 1.3        | H             | -2.02                   | 67.17                        | 68.2            | -1.03       |
| 5725                     | 66.26          | AV                  | 264          | 1.3        | H             | -2.02                   | 64.24                        | 68.2            | -3.96       |
| 11400                    | 47.12          | PK                  | 320          | 1.2        | H             | 7.26                    | 54.38                        | 74              | -19.62      |
| 11400                    | 36.09          | AV                  | 320          | 1.2        | H             | 7.26                    | 43.35                        | 54              | -10.65      |
| 11400                    | 47.95          | PK                  | 8            | 1.2        | V             | 7.26                    | 55.21                        | 74              | -18.79      |
| 11400                    | 37.03          | AV                  | 8            | 1.2        | V             | 7.26                    | 44.29                        | 54              | -9.71       |
| 5720MHz                  |                |                     |              |            |               |                         |                              |                 |             |
| 5850                     | 66.10          | PK                  | 140          | 2.2        | H             | -1.81                   | 64.29                        | 68.2            | -3.91       |
| 5850                     | 65.79          | PK                  | 201          | 1.2        | V             | -1.81                   | 63.98                        | 68.2            | -4.22       |
| 6000                     | 65.26          | PK                  | 206          | 1.2        | H             | -1.71                   | 63.55                        | 68.2            | -4.65       |
| 6000                     | 65.16          | PK                  | 300          | 1.8        | V             | -1.71                   | 63.45                        | 68.2            | -4.75       |
| 11440                    | 46.61          | PK                  | 168          | 2.1        | H             | 6.91                    | 53.52                        | 74              | -20.48      |
| 11440                    | 47.05          | PK                  | 349          | 1.5        | V             | 6.91                    | 53.96                        | 74              | -20.04      |

| Frequency<br>(MHz)                  | Receiver                |                        | Turn-<br>Table<br>Angle<br>Degree | Rx Antenna    |                  | Corrected<br>Factor<br>(dB/m) | Corrected<br>Amplitude<br>(dB $\mu$ V/m) | FCC Part 15.407         |                |
|-------------------------------------|-------------------------|------------------------|-----------------------------------|---------------|------------------|-------------------------------|--|-------------------------|----------------|
|                                     | Reading<br>(dB $\mu$ V) | Detector<br>(PK/QP/AV) |                                   | Height<br>(m) | Polar<br>(H / V) |                               |  | Limit<br>(dB $\mu$ V/m) | Margin<br>(dB) |
| 802.11N20 MIMO + No-BF (Worst case) |                         |                        |                                   |               |                  |                               |  |                         |                |
| 5500MHz                             |                         |                        |                                   |               |                  |                               |  |                         |                |
| 5460                                | 63.88                   | PK                     | 217                               | 2.5           | H                | -2.26                         | 61.62                                    | 74                      | -12.38         |
| 5460                                | 51.40                   | AV                     | 217                               | 2.5           | H                | -2.26                         | 49.14                                    | 54                      | -4.86          |
| 5460                                | 63.67                   | PK                     | 228                               | 2.4           | V                | -2.26                         | 61.41                                    | 74                      | -12.59         |
| 5460                                | 50.69                   | AV                     | 228                               | 2.4           | V                | -2.26                         | 48.43                                    | 54                      | -5.57          |
| 5470                                | 66.88                   | PK                     | 142                               | 1.5           | H                | -2.20                         | 64.68                                    | 68.2                    | -3.52          |
| 5470                                | 65.49                   | PK                     | 197                               | 1.1           | V                | -2.20                         | 63.29                                    | 68.2                    | -4.91          |
| 11000                               | 42.85                   | PK                     | 113                               | 2             | H                | 9.67                          | 52.52                                    | 74                      | -21.48         |
| 11000                               | 44.11                   | PK                     | 343                               | 1.1           | V                | 9.67                          | 53.78                                    | 74                      | -20.22         |
| 5580MHz                             |                         |                        |                                   |               |                  |                               |  |                         |                |
| 11160                               | 43.25                   | PK                     | 40                                | 1.7           | H                | 8.60                          | 51.85                                    | 74                      | -22.15         |
| 11160                               | 44.07                   | PK                     | 38                                | 1.7           | V                | 8.60                          | 52.67                                    | 74                      | -21.33         |
| 5700MHz                             |                         |                        |                                   |               |                  |                               |  |                         |                |
| 5725                                | 69.22                   | PK                     | 33                                | 1.7           | H                | -2.02                         | 67.2                                     | 68.2                    | -1.00          |
| 5725                                | 66.24                   | AV                     | 33                                | 1.7           | H                | -2.02                         | 64.22                                    | 68.2                    | -3.98          |
| 11400                               | 45.91                   | PK                     | 352                               | 1.2           | H                | 7.26                          | 53.17                                    | 74                      | -20.83         |
| 11400                               | 47.14                   | PK                     | 138                               | 1.1           | V                | 7.26                          | 54.4                                     | 74                      | -19.60         |
| 11400                               | 37.19                   | AV                     | 138                               | 1.1           | V                | 7.26                          | 44.45                                    | 54                      | -9.55          |
| 5720MHz                             |                         |                        |                                   |               |                  |                               |  |                         |                |
| 5850                                | 66.07                   | PK                     | 230                               | 1.7           | H                | -1.81                         | 64.26                                    | 68.2                    | -3.94          |
| 5850                                | 65.73                   | PK                     | 3                                 | 1.4           | V                | -1.81                         | 63.92                                    | 68.2                    | -4.28          |
| 6000                                | 65.38                   | PK                     | 289                               | 1.2           | H                | -1.71                         | 63.67                                    | 68.2                    | -4.53          |
| 6000                                | 65.28                   | PK                     | 265                               | 2.5           | V                | -1.71                         | 63.57                                    | 68.2                    | -4.63          |
| 11440                               | 46.42                   | PK                     | 170                               | 1.6           | H                | 6.91                          | 53.33                                    | 74                      | -20.67         |
| 11440                               | 46.93                   | PK                     | 165                               | 1.9           | V                | 6.91                          | 53.84                                    | 74                      | -20.16         |

| Frequency (MHz)                     | Receiver       |                     | Turn-Table<br>Angle Degree | Rx Antenna |               | Corrected Factor (dB/m) | Corrected Amplitude (dBμV/m) | FCC Part 15.407 |             |
|-------------------------------------|----------------|---------------------|----------------------------|------------|---------------|-------------------------|------------------------------|-----------------|-------------|
|                                     | Reading (dBμV) | Detector (PK/QP/AV) |                            | Height (m) | Polar (H / V) |                         |                              | Limit (dBμV/m)  | Margin (dB) |
| 802.11N40 MIMO + No-BF (Worst case) |                |                     |                            |            |               |                         |                              |                 |             |
| 5510MHz                             |                |                     |                            |            |               |                         |                              |                 |             |
| 5460                                | 63.77          | PK                  | 255                        | 1          | H             | -2.26                   | 61.51                        | 74              | -12.49      |
| 5460                                | 51.85          | AV                  | 255                        | 1          | H             | -2.26                   | 49.59                        | 54              | -4.41       |
| 5460                                | 63.64          | PK                  | 191                        | 2.4        | V             | -2.26                   | 61.38                        | 74              | -12.62      |
| 5460                                | 50.82          | AV                  | 191                        | 2.4        | V             | -2.26                   | 48.56                        | 54              | -5.44       |
| 5470                                | 66.55          | PK                  | 55                         | 1.5        | H             | -2.20                   | 64.35                        | 68.2            | -3.85       |
| 5470                                | 65.20          | PK                  | 305                        | 2.4        | V             | -2.20                   | 63.00                        | 68.2            | -5.20       |
| 11020                               | 42.44          | PK                  | 71                         | 1.7        | H             | 9.6                     | 52.04                        | 74              | -21.96      |
| 11020                               | 42.71          | PK                  | 302                        | 1.2        | V             | 9.6                     | 52.31                        | 74              | -21.69      |
| 5550MHz                             |                |                     |                            |            |               |                         |                              |                 |             |
| 11100                               | 40.85          | PK                  | 211                        | 1.7        | H             | 9.12                    | 49.97                        | 74              | -24.03      |
| 11100                               | 41.13          | PK                  | 279                        | 1.7        | V             | 9.12                    | 50.25                        | 74              | -23.75      |
| 5670MHz                             |                |                     |                            |            |               |                         |                              |                 |             |
| 5725                                | 66.26          | PK                  | 169                        | 2.2        | H             | -2.02                   | 64.24                        | 68.2            | -3.96       |
| 5725                                | 65.85          | AV                  | 169                        | 2.2        | H             | -2.02                   | 63.83                        | 68.2            | -4.37       |
| 11340                               | 44.20          | PK                  | 9                          | 2.4        | H             | 7.60                    | 51.8                         | 74              | -22.20      |
| 11340                               | 45.52          | PK                  | 311                        | 1          | V             | 7.60                    | 53.12                        | 74              | -20.88      |
| 5710MHz                             |                |                     |                            |            |               |                         |                              |                 |             |
| 5850                                | 66.10          | PK                  | 265                        | 1.6        | H             | -1.81                   | 64.29                        | 68.2            | -3.91       |
| 5850                                | 66.07          | PK                  | 119                        | 1.1        | V             | -1.81                   | 64.26                        | 68.2            | -3.94       |
| 6000                                | 65.24          | PK                  | 175                        | 1.6        | H             | -1.71                   | 63.53                        | 68.2            | -4.67       |
| 6000                                | 65.55          | PK                  | 281                        | 1.3        | V             | -1.71                   | 63.84                        | 68.2            | -4.36       |
| 11420                               | 48.33          | PK                  | 299                        | 1.0        | H             | 7.08                    | 55.41                        | 74              | -18.59      |
| 11420                               | 38.31          | AV                  | 299                        | 1          | H             | 7.08                    | 45.39                        | 54              | -8.61       |
| 11420                               | 49.18          | PK                  | 317                        | 1.7        | V             | 7.08                    | 56.26                        | 74              | -17.74      |
| 11420                               | 39.37          | AV                  | 317                        | 1.7        | V             | 7.08                    | 46.45                        | 54              | -7.55       |



| Frequency<br>(MHz)                   | Receiver          |                        | Turn-<br>Table<br>Angle<br>Degree | Rx Antenna    |                  | Corrected<br>Factor<br>(dB/m) | Corrected<br>Amplitude<br>(dBμV/m) | FCC Part 15.407   |                |
|--------------------------------------|-------------------|------------------------|-----------------------------------|---------------|------------------|-------------------------------|------------------------------------|-------------------|----------------|
|                                      | Reading<br>(dBμV) | Detector<br>(PK/QP/AV) |                                   | Height<br>(m) | Polar<br>(H / V) |                               |                                    | Limit<br>(dBμV/m) | Margin<br>(dB) |
| 802.11AC20 MIMO + No-BF (Worst case) |                   |                        |                                   |               |                  |                               |                                    |                   |                |
| 5500MHz                              |                   |                        |                                   |               |                  |                               |                                    |                   |                |
| 5460                                 | 63.99             | PK                     | 279                               | 1.4           | H                | -2.26                         | 61.73                              | 74                | -12.27         |
| 5460                                 | 51.47             | AV                     | 279                               | 1.4           | H                | -2.26                         | 49.21                              | 54                | -4.79          |
| 5460                                 | 63.84             | PK                     | 208                               | 1.9           | V                | -2.26                         | 61.58                              | 74                | -12.42         |
| 5460                                 | 50.78             | AV                     | 208                               | 1.9           | V                | -2.26                         | 48.52                              | 54                | -5.48          |
| 5470                                 | 66.94             | PK                     | 206                               | 1.5           | H                | -2.20                         | 64.74                              | 68.2              | -3.46          |
| 5470                                 | 65.76             | PK                     | 221                               | 2             | V                | -2.20                         | 63.56                              | 68.2              | -4.64          |
| 11000                                | 43.07             | PK                     | 108                               | 2.3           | H                | 9.67                          | 52.74                              | 74                | -21.26         |
| 11000                                | 44.46             | PK                     | 156                               | 1.1           | V                | 9.67                          | 54.13                              | 74                | -19.87         |
| 11000                                | 34.94             | AV                     | 156                               | 1.1           | V                | 9.67                          | 44.61                              | 54                | -9.39          |
| 5580MHz                              |                   |                        |                                   |               |                  |                               |                                    |                   |                |
| 11160                                | 43.45             | PK                     | 43                                | 1.6           | H                | 8.60                          | 52.05                              | 74                | -21.95         |
| 11160                                | 44.50             | PK                     | 36                                | 1.6           | V                | 8.60                          | 53.10                              | 74                | -20.90         |
| 5700MHz                              |                   |                        |                                   |               |                  |                               |                                    |                   |                |
| 5725                                 | 68.99             | PK                     | 67                                | 1             | H                | -2.02                         | 66.97                              | 68.2              | -1.23          |
| 5725                                 | 66.55             | AV                     | 67                                | 1             | H                | -2.02                         | 64.53                              | 68.2              | -3.67          |
| 11400                                | 46.33             | PK                     | 137                               | 2.3           | H                | 7.26                          | 53.59                              | 74                | -20.41         |
| 11400                                | 47.30             | PK                     | 213                               | 1.1           | V                | 7.26                          | 54.56                              | 74                | -19.44         |
| 11400                                | 37.42             | AV                     | 213                               | 1.1           | V                | 7.26                          | 44.68                              | 54                | -9.32          |
| 5720MHz                              |                   |                        |                                   |               |                  |                               |                                    |                   |                |
| 5850                                 | 66.09             | PK                     | 306                               | 1             | H                | -1.81                         | 64.28                              | 68.2              | -3.92          |
| 5850                                 | 65.91             | PK                     | 357                               | 1             | V                | -1.81                         | 64.10                              | 68.2              | -4.10          |
| 6000                                 | 65.31             | PK                     | 135                               | 2.1           | H                | -1.71                         | 63.60                              | 68.2              | -4.60          |
| 6000                                 | 65.22             | PK                     | 204                               | 1.2           | V                | -1.71                         | 63.51                              | 68.2              | -4.69          |
| 11440                                | 46.39             | PK                     | 208                               | 2.5           | H                | 6.91                          | 53.30                              | 74                | -20.70         |
| 11440                                | 47.04             | PK                     | 162                               | 2.5           | V                | 6.91                          | 53.95                              | 74                | -20.05         |

| Frequency (MHz)                      | Receiver       |                     | Turn-Table   | Rx Antenna |               | Corrected Factor (dB/m) | Corrected Amplitude (dBμV/m) | FCC Part 15.407 |             |
|--------------------------------------|----------------|---------------------|--------------|------------|---------------|-------------------------|------------------------------|-----------------|-------------|
|                                      | Reading (dBμV) | Detector (PK/QP/AV) | Angle Degree | Height (m) | Polar (H / V) |                         |                              | Limit (dBμV/m)  | Margin (dB) |
| 802.11AC40 MIMO + No-BF (Worst case) |                |                     |              |            |               |                         |                              |                 |             |
| 5510MHz                              |                |                     |              |            |               |                         |                              |                 |             |
| 5460                                 | 64.06          | PK                  | 104          | 2.2        | H             | -2.26                   | 61.80                        | 74              | -12.20      |
| 5460                                 | 52.01          | AV                  | 104          | 2.2        | H             | -2.26                   | 49.75                        | 54              | -4.25       |
| 5460                                 | 63.89          | PK                  | 280          | 1.7        | V             | -2.26                   | 61.63                        | 74              | -12.37      |
| 5460                                 | 51.00          | AV                  | 280          | 1.7        | V             | -2.26                   | 48.74                        | 54              | -5.26       |
| 5470                                 | 66.99          | PK                  | 156          | 1.7        | H             | -2.20                   | 64.79                        | 68.2            | -3.41       |
| 5470                                 | 65.72          | PK                  | 37           | 2.3        | V             | -2.20                   | 63.52                        | 68.2            | -4.68       |
| 11020                                | 42.58          | PK                  | 292          | 2.3        | H             | 9.6                     | 52.18                        | 74              | -21.82      |
| 11020                                | 43.17          | PK                  | 345          | 1.3        | V             | 9.6                     | 52.77                        | 74              | -21.23      |
| 5550MHz                              |                |                     |              |            |               |                         |                              |                 |             |
| 11100                                | 41.21          | PK                  | 333          | 1.3        | H             | 9.12                    | 50.33                        | 74              | -23.67      |
| 11100                                | 42.46          | PK                  | 148          | 1.3        | V             | 9.12                    | 51.58                        | 74              | -22.42      |
| 5670MHz                              |                |                     |              |            |               |                         |                              |                 |             |
| 5725                                 | 66.88          | PK                  | 242          | 2          | H             | -2.02                   | 64.86                        | 68.2            | -3.34       |
| 5725                                 | 65.80          | AV                  | 242          | 2          | H             | -2.02                   | 63.78                        | 68.2            | -4.42       |
| 11340                                | 44.78          | PK                  | 359          | 1.4        | H             | 7.6                     | 52.38                        | 74              | -21.62      |
| 11340                                | 45.99          | PK                  | 45           | 1.4        | V             | 7.6                     | 53.59                        | 74              | -20.41      |
| 5710MHz                              |                |                     |              |            |               |                         |                              |                 |             |
| 5850                                 | 66.16          | PK                  | 305          | 1.2        | H             | -1.81                   | 64.35                        | 68.2            | -3.85       |
| 5850                                 | 66.11          | PK                  | 87           | 1.6        | V             | -1.81                   | 64.30                        | 68.2            | -3.90       |
| 6000                                 | 65.36          | PK                  | 236          | 2.1        | H             | -1.71                   | 63.65                        | 68.2            | -4.55       |
| 6000                                 | 65.41          | PK                  | 265          | 1.6        | V             | -1.71                   | 63.70                        | 68.2            | -4.50       |
| 11420                                | 48.29          | PK                  | 337          | 1.3        | H             | 7.08                    | 55.37                        | 74              | -18.63      |
| 11420                                | 38.65          | AV                  | 337          | 1.3        | H             | 7.08                    | 45.73                        | 54              | -8.27       |
| 11420                                | 49.33          | PK                  | 331          | 1.7        | V             | 7.08                    | 56.41                        | 74              | -17.59      |
| 11420                                | 39.92          | AV                  | 331          | 1.7        | V             | 7.08                    | 47.00                        | 54              | -7.00       |

| Frequency (MHz)                      | Receiver       |                     | Turn-Table   | Rx Antenna |               | Corrected Factor (dB/m) | Corrected Amplitude (dBμV/m) | FCC Part 15.407 |             |
|--------------------------------------|----------------|---------------------|--------------|------------|---------------|-------------------------|------------------------------|-----------------|-------------|
|                                      | Reading (dBμV) | Detector (PK/QP/AV) | Angle Degree | Height (m) | Polar (H / V) |                         |                              | Limit (dBμV/m)  | Margin (dB) |
| 802.11AC80 MIMO + No-BF (Worst case) |                |                     |              |            |               |                         |                              |                 |             |
| 5530MHz                              |                |                     |              |            |               |                         |                              |                 |             |
| 5460                                 | 66.07          | PK                  | 247          | 2.4        | H             | -2.26                   | 63.81                        | 74              | -10.19      |
| 5460                                 | 53.18          | AV                  | 247          | 2.4        | H             | -2.26                   | 50.92                        | 54              | -3.08       |
| 5460                                 | 63.69          | PK                  | 330          | 1.6        | V             | -2.26                   | 61.43                        | 74              | -12.57      |
| 5460                                 | 50.91          | AV                  | 330          | 1.6        | V             | -2.26                   | 48.65                        | 54              | -5.35       |
| 5470                                 | 67.31          | PK                  | 276          | 1.7        | H             | -2.20                   | 65.11                        | 68.2            | -3.09       |
| 5470                                 | 65.96          | PK                  | 158          | 1.2        | V             | -2.20                   | 63.76                        | 68.2            | -4.44       |
| 11060                                | 41.11          | PK                  | 134          | 2          | H             | 9.40                    | 50.51                        | 74              | -23.49      |
| 11060                                | 41.60          | PK                  | 281          | 2          | V             | 9.40                    | 51.00                        | 74              | -23.00      |
| 5610MHz                              |                |                     |              |            |               |                         |                              |                 |             |
| 5725                                 | 67.20          | PK                  | 249          | 2          | H             | -2.02                   | 65.18                        | 68.2            | -3.02       |
| 5725                                 | 66.92          | AV                  | 249          | 2          | H             | -2.02                   | 64.90                        | 68.2            | -3.30       |
| 11220                                | 42.71          | PK                  | 147          | 2.1        | H             | 8.40                    | 51.11                        | 74              | -22.89      |
| 11220                                | 43.36          | PK                  | 91           | 2.1        | V             | 8.40                    | 51.76                        | 74              | -22.24      |
| 5690MHz                              |                |                     |              |            |               |                         |                              |                 |             |
| 5850                                 | 66.34          | PK                  | 10           | 2          | H             | -1.81                   | 64.53                        | 68.2            | -3.67       |
| 5850                                 | 66.57          | PK                  | 128          | 1.5        | V             | -1.81                   | 64.76                        | 68.2            | -3.44       |
| 6000                                 | 65.77          | PK                  | 347          | 1.3        | H             | -1.71                   | 64.06                        | 68.2            | -4.14       |
| 6000                                 | 65.59          | PK                  | 291          | 1.5        | V             | -1.71                   | 63.88                        | 68.2            | -4.32       |
| 11380                                | 46.97          | PK                  | 187          | 1.2        | H             | 7.40                    | 54.37                        | 74              | -19.63      |
| 11380                                | 37.93          | AV                  | 187          | 1.2        | H             | 7.40                    | 45.33                        | 54              | -8.67       |
| 11380                                | 47.89          | PK                  | 54           | 2.2        | V             | 7.40                    | 55.29                        | 74              | -18.71      |
| 11380                                | 38.36          | AV                  | 54           | 2.2        | V             | 7.40                    | 45.76                        | 54              | -8.24       |

| Frequency (MHz)                      | Receiver       |                     | Turn-Table   | Rx Antenna |               | Corrected Factor (dB/m) | Corrected Amplitude (dBμV/m) | FCC Part 15.407 |             |
|--------------------------------------|----------------|---------------------|--------------|------------|---------------|-------------------------|------------------------------|-----------------|-------------|
|                                      | Reading (dBμV) | Detector (PK/QP/AV) | Angle Degree | Height (m) | Polar (H / V) |                         |                              | Limit (dBμV/m)  | Margin (dB) |
| 802.11AX20 MIMO + No-BF (Worst case) |                |                     |              |            |               |                         |                              |                 |             |
| 5500MHz_26Tone_RU0(Worst Case)       |                |                     |              |            |               |                         |                              |                 |             |
| 5460                                 | 63.86          | PK                  | 259          | 1.6        | H             | -2.26                   | 61.60                        | 74              | -12.40      |
| 5460                                 | 51.55          | AV                  | 259          | 1.6        | H             | -2.26                   | 49.29                        | 54              | -4.71       |
| 5460                                 | 63.72          | PK                  | 120          | 2.3        | V             | -2.26                   | 61.46                        | 74              | -12.54      |
| 5460                                 | 50.88          | AV                  | 120          | 2.3        | V             | -2.26                   | 48.62                        | 54              | -5.38       |
| 5470                                 | 66.85          | PK                  | 245          | 2.4        | H             | -2.20                   | 64.65                        | 68.2            | -3.55       |
| 5470                                 | 65.93          | PK                  | 153          | 2.1        | V             | -2.20                   | 63.73                        | 68.2            | -4.47       |
| 5500MHz_242Tone_RU61(Worst Case)     |                |                     |              |            |               |                         |                              |                 |             |
| 11000                                | 43.20          | PK                  | 102          | 2.2        | H             | 9.67                    | 52.87                        | 74              | -21.13      |
| 11000                                | 44.41          | PK                  | 189          | 2.3        | V             | 9.67                    | 54.08                        | 74              | -19.92      |
| 11000                                | 35.04          | AV                  | 189          | 2.3        | V             | 9.67                    | 44.71                        | 54              | -9.29       |
| 5580MHz_242Tone_RU61(Worst Case)     |                |                     |              |            |               |                         |                              |                 |             |
| 11160                                | 43.68          | PK                  | 262          | 1.5        | H             | 8.60                    | 52.28                        | 74              | -21.72      |
| 11160                                | 44.76          | PK                  | 196          | 1.5        | V             | 8.60                    | 53.36                        | 74              | -20.64      |
| 5700MHz_26Tone_RU8(Worst Case)       |                |                     |              |            |               |                         |                              |                 |             |
| 5725                                 | 69.12          | PK                  | 312          | 1.9        | H             | -2.02                   | 67.1                         | 68.2            | -1.10       |
| 5725                                 | 66.69          | AV                  | 312          | 1.9        | H             | -2.02                   | 64.67                        | 68.2            | -3.53       |
| 5700MHz_242Tone_RU61(Worst Case)     |                |                     |              |            |               |                         |                              |                 |             |
| 11400                                | 46.63          | PK                  | 199          | 1.7        | H             | 7.26                    | 53.89                        | 74              | -20.11      |
| 11400                                | 47.75          | PK                  | 359          | 2.4        | V             | 7.26                    | 55.01                        | 74              | -18.99      |
| 11400                                | 37.50          | AV                  | 359          | 2.4        | V             | 7.26                    | 44.76                        | 54              | -9.24       |
| 5720MHz_26Tone_RU8(Worst Case)       |                |                     |              |            |               |                         |                              |                 |             |
| 5850                                 | 65.96          | PK                  | 229          | 1.9        | H             | -1.81                   | 64.15                        | 68.2            | -4.05       |
| 5850                                 | 65.97          | PK                  | 75           | 2          | V             | -1.81                   | 64.16                        | 68.2            | -4.04       |
| 6000                                 | 65.42          | PK                  | 189          | 2.2        | H             | -1.71                   | 63.71                        | 68.2            | -4.49       |
| 6000                                 | 65.29          | PK                  | 54           | 2.3        | V             | -1.71                   | 63.58                        | 68.2            | -4.62       |
| 5720MHz_242Tone_RU61(Worst Case)     |                |                     |              |            |               |                         |                              |                 |             |
| 11440                                | 46.38          | PK                  | 114          | 1.6        | H             | 6.91                    | 53.29                        | 74              | -20.71      |
| 11440                                | 46.98          | PK                  | 243          | 2.4        | V             | 6.91                    | 53.89                        | 74              | -20.11      |

| Frequency (MHz)                      | Receiver       |                     | Turn-Table<br>Angle Degree | Rx Antenna |             | Corrected Factor (dB/m) | Corrected Amplitude (dBμV/m) | FCC Part 15.407 |             |
|--------------------------------------|----------------|---------------------|----------------------------|------------|-------------|-------------------------|------------------------------|-----------------|-------------|
|                                      | Reading (dBμV) | Detector (PK/QP/AV) |                            | Height (m) | Polar (H/V) |                         |                              | Limit (dBμV/m)  | Margin (dB) |
| 802.11AX40 MIMO + No-BF (Worst case) |                |                     |                            |            |             |                         |                              |                 |             |
| 5510MHz_26Tone_RU0(Worst Case)       |                |                     |                            |            |             |                         |                              |                 |             |
| 5460                                 | 63.97          | PK                  | 205                        | 1          | H           | -2.26                   | 61.71                        | 74              | -12.29      |
| 5460                                 | 51.88          | AV                  | 205                        | 1          | H           | -2.26                   | 49.62                        | 54              | -4.38       |
| 5460                                 | 63.79          | PK                  | 205                        | 1.8        | V           | -2.26                   | 61.53                        | 74              | -12.47      |
| 5460                                 | 50.96          | AV                  | 205                        | 1.8        | V           | -2.26                   | 48.70                        | 54              | -5.30       |
| 5470                                 | 67.23          | PK                  | 82                         | 1.9        | H           | -2.20                   | 65.03                        | 68.2            | -3.17       |
| 5470                                 | 65.94          | PK                  | 139                        | 2.1        | V           | -2.20                   | 63.74                        | 68.2            | -4.46       |
| 5510MHz_484Tone_RU65(Worst Case)     |                |                     |                            |            |             |                         |                              |                 |             |
| 11020                                | 42.80          | PK                  | 59                         | 1.2        | H           | 9.6                     | 52.4                         | 74              | -21.60      |
| 11020                                | 43.34          | PK                  | 140                        | 2.2        | V           | 9.6                     | 52.94                        | 74              | -21.06      |
| 5550MHz_484Tone_RU65(Worst Case)     |                |                     |                            |            |             |                         |                              |                 |             |
| 11100                                | 41.64          | PK                  | 47                         | 2.1        | H           | 9.12                    | 50.76                        | 74              | -23.24      |
| 11100                                | 42.79          | PK                  | 192                        | 2.1        | V           | 9.12                    | 51.91                        | 74              | -22.09      |
| 5670MHz_26Tone_RU17(Worst Case)      |                |                     |                            |            |             |                         |                              |                 |             |
| 5725                                 | 66.99          | PK                  | 267                        | 1.6        | H           | -2.02                   | 64.97                        | 68.2            | -3.23       |
| 5725                                 | 66.13          | AV                  | 267                        | 1.6        | H           | -2.02                   | 64.11                        | 68.2            | -4.09       |
| 5670MHz_484Tone_RU65(Worst Case)     |                |                     |                            |            |             |                         |                              |                 |             |
| 11340                                | 45.19          | PK                  | 251                        | 1.8        | H           | 7.60                    | 52.79                        | 74              | -21.21      |
| 11340                                | 46.27          | PK                  | 147                        | 1.8        | V           | 7.60                    | 53.87                        | 74              | -20.13      |
| 5710MHz_26Tone_RU17(Worst Case)      |                |                     |                            |            |             |                         |                              |                 |             |
| 5850                                 | 66.04          | PK                  | 77                         | 1.6        | H           | -1.81                   | 64.23                        | 68.2            | -3.97       |
| 5850                                 | 66.16          | PK                  | 299                        | 1.2        | V           | -1.81                   | 64.35                        | 68.2            | -3.85       |
| 6000                                 | 65.17          | PK                  | 21                         | 1.9        | H           | -1.71                   | 63.46                        | 68.2            | -4.74       |
| 6000                                 | 65.31          | PK                  | 199                        | 1.5        | V           | -1.71                   | 63.60                        | 68.2            | -4.60       |
| 5710MHz_484Tone_RU65(Worst Case)     |                |                     |                            |            |             |                         |                              |                 |             |
| 11420                                | 48.31          | PK                  | 21                         | 1.3        | H           | 7.08                    | 55.39                        | 74              | -18.61      |
| 11420                                | 38.69          | AV                  | 21                         | 1.3        | H           | 7.08                    | 45.77                        | 54              | -8.23       |
| 11420                                | 49.21          | PK                  | 176                        | 2.2        | V           | 7.08                    | 56.29                        | 74              | -17.71      |
| 11420                                | 40.13          | AV                  | 176                        | 2.2        | V           | 7.08                    | 47.21                        | 54              | -6.79       |

| Frequency (MHz)                      | Receiver       |                     | Turn-Table<br>Angle Degree | Rx Antenna |             | Corrected Factor (dB/m) | Corrected Amplitude (dBμV/m) | FCC Part 15.407 |             |
|--------------------------------------|----------------|---------------------|----------------------------|------------|-------------|-------------------------|------------------------------|-----------------|-------------|
|                                      | Reading (dBμV) | Detector (PK/QP/AV) |                            | Height (m) | Polar (H/V) |                         |                              | Limit (dBμV/m)  | Margin (dB) |
| 802.11AX80 MIMO + No-BF (Worst case) |                |                     |                            |            |             |                         |                              |                 |             |
| 5530MHz_26Tone_RU0(Worst Case)       |                |                     |                            |            |             |                         |                              |                 |             |
| 5460                                 | 65.87          | PK                  | 102                        | 1.3        | H           | -2.26                   | 63.61                        | 74              | -10.39      |
| 5460                                 | 53.31          | AV                  | 102                        | 1.3        | H           | -2.26                   | 51.05                        | 54              | -2.95       |
| 5460                                 | 64.02          | PK                  | 326                        | 2.4        | V           | -2.26                   | 61.76                        | 74              | -12.24      |
| 5460                                 | 51.05          | AV                  | 326                        | 2.4        | V           | -2.26                   | 48.79                        | 54              | -5.21       |
| 5470                                 | 67.26          | PK                  | 7                          | 1.9        | H           | -2.2                    | 65.06                        | 68.2            | -3.14       |
| 5470                                 | 66.33          | PK                  | 96                         | 1.3        | V           | -2.2                    | 64.13                        | 68.2            | -4.07       |
| 5610MHz_26Tone_RU36(Worst Case)      |                |                     |                            |            |             |                         |                              |                 |             |
| 5725                                 | 67.37          | PK                  | 101                        | 2.1        | H           | -2.02                   | 65.35                        | 68.2            | -2.85       |
| 5725                                 | 66.79          | AV                  | 101                        | 2.1        | H           | -2.02                   | 64.77                        | 68.2            | -3.43       |
| 5610MHz_996Tone_RU67(Worst Case)     |                |                     |                            |            |             |                         |                              |                 |             |
| 11220                                | 42.94          | PK                  | 237                        | 1.4        | H           | 8.40                    | 51.34                        | 74              | -22.66      |
| 11220                                | 43.62          | PK                  | 266                        | 1.4        | V           | 8.40                    | 52.02                        | 74              | -21.98      |
| 5690MHz_26Tone_RU36(Worst Case)      |                |                     |                            |            |             |                         |                              |                 |             |
| 5850                                 | 66.33          | PK                  | 68                         | 2.5        | H           | -1.81                   | 64.52                        | 68.2            | -3.68       |
| 5850                                 | 66.57          | PK                  | 86                         | 2.4        | V           | -1.81                   | 64.76                        | 68.2            | -3.44       |
| 6000                                 | 65.97          | PK                  | 17                         | 1.2        | H           | -1.71                   | 64.26                        | 68.2            | -3.94       |
| 6000                                 | 65.72          | PK                  | 274                        | 2.1        | V           | -1.71                   | 64.01                        | 68.2            | -4.19       |
| 5690MHz_996Tone_RU67(Worst Case)     |                |                     |                            |            |             |                         |                              |                 |             |
| 11380                                | 46.98          | PK                  | 32                         | 2.4        | H           | 7.40                    | 54.38                        | 74              | -19.62      |
| 11380                                | 38.38          | AV                  | 32                         | 2.4        | H           | 7.40                    | 45.78                        | 54              | -8.22       |
| 11380                                | 48.08          | PK                  | 93                         | 1.4        | V           | 7.40                    | 55.48                        | 74              | -18.52      |
| 11380                                | 38.33          | AV                  | 93                         | 1.4        | V           | 7.40                    | 45.73                        | 54              | -8.27       |

## 5725-5850 MHz:

| Frequency (MHz)          | Receiver       |                     | Turn-Table Angle Degree | Rx Antenna |               | Corrected Factor (dB/m) | Corrected Amplitude (dBμV/m) | FCC Part 15.407 |             |
|--------------------------|----------------|---------------------|-------------------------|------------|---------------|-------------------------|------------------------------|-----------------|-------------|
|                          | Reading (dBμV) | Detector (PK/QP/AV) |                         | Height (m) | Polar (H / V) |                         |                              | Limit (dBμV/m)  | Margin (dB) |
| 802.11A MIMO(Worst case) |                |                     |                         |            |               |                         |                              |                 |             |
| 5745MHz                  |                |                     |                         |            |               |                         |                              |                 |             |
| 5650                     | 65.32          | PK                  | 263                     | 2.3        | H             | -1.95                   | 63.37                        | 68.2            | -4.83       |
| 5650                     | 65.33          | PK                  | 37                      | 1.6        | V             | -1.95                   | 63.38                        | 68.2            | -4.82       |
| 5700                     | 72.50          | PK                  | 23                      | 1.7        | H             | -2.02                   | 70.48                        | 105.2           | -34.72      |
| 5700                     | 70.03          | PK                  | 256                     | 2.2        | V             | -2.02                   | 68.01                        | 105.2           | -37.19      |
| 5720                     | 81.25          | PK                  | 247                     | 2.4        | H             | -2.00                   | 79.25                        | 110.8           | -31.55      |
| 5720                     | 78.04          | PK                  | 23                      | 1.7        | V             | -2.00                   | 76.04                        | 110.8           | -34.76      |
| 5725                     | 98.35          | PK                  | 25                      | 1.7        | H             | -2.00                   | 96.35                        | 122.2           | -25.85      |
| 5725                     | 94.17          | PK                  | 328                     | 1.7        | V             | -2.00                   | 92.17                        | 122.2           | -30.03      |
| 11490                    | 49.36          | PK                  | 188                     | 2          | H             | 6.58                    | 55.94                        | 74              | -18.06      |
| 11490                    | 39.60          | AV                  | 188                     | 2          | H             | 6.58                    | 46.18                        | 54              | -7.82       |
| 11490                    | 49.90          | PK                  | 342                     | 1.2        | V             | 6.58                    | 56.48                        | 74              | -17.52      |
| 11490                    | 39.56          | AV                  | 342                     | 1.2        | V             | 6.58                    | 46.14                        | 54              | -7.86       |
| 5785MHz                  |                |                     |                         |            |               |                         |                              |                 |             |
| 11570                    | 49.69          | PK                  | 252                     | 1.7        | H             | 6.60                    | 56.29                        | 74              | -17.71      |
| 11570                    | 39.85          | AV                  | 293                     | 1.7        | V             | 6.60                    | 46.45                        | 54              | -7.55       |
| 11570                    | 50.51          | PK                  | 267                     | 1.7        | H             | 6.60                    | 57.11                        | 74              | -16.89      |
| 11570                    | 40.91          | AV                  | 302                     | 1.7        | V             | 6.60                    | 47.51                        | 54              | -6.49       |
| 5825MHz                  |                |                     |                         |            |               |                         |                              |                 |             |
| 5850                     | 91.62          | PK                  | 54                      | 1.5        | H             | -1.81                   | 89.81                        | 122.2           | -32.39      |
| 5850                     | 87.19          | PK                  | 213                     | 1.1        | V             | -1.81                   | 85.38                        | 122.2           | -36.82      |
| 5855                     | 259.80         | PK                  | 78                      | 2.1        | H             | -1.81                   | 78.80                        | 110.8           | -32.00      |
| 5855                     | 77.29          | PK                  | 159                     | 2.2        | V             | -1.81                   | 75.48                        | 110.8           | -35.32      |
| 5875                     | 72.25          | PK                  | 132                     | 2.5        | H             | -1.84                   | 70.41                        | 105.2           | -34.79      |
| 5875                     | 69.51          | PK                  | 218                     | 2.2        | V             | -1.84                   | 67.67                        | 105.2           | -37.53      |
| 5925                     | 65.91          | PK                  | 290                     | 1.7        | H             | -1.80                   | 64.11                        | 68.2            | -4.09       |
| 5925                     | 66.14          | PK                  | 52                      | 1.7        | V             | -1.80                   | 64.34                        | 68.2            | -3.86       |
| 11650                    | 49.25          | PK                  | 30                      | 1.5        | H             | 6.77                    | 56.02                        | 74              | -17.98      |
| 11650                    | 38.14          | AV                  | 285                     | 1.5        | H             | 6.77                    | 44.91                        | 54              | -9.09       |
| 11650                    | 50.98          | PK                  | 348                     | 1.3        | V             | 6.77                    | 57.75                        | 74              | -16.25      |
| 11650                    | 41.08          | AV                  | 348                     | 1.3        | V             | 6.77                    | 47.85                        | 54              | -6.15       |

| Frequency (MHz)                     | Receiver             |                     | Turn-Table Angle Degree | Rx Antenna |               | Corrected Factor (dB/m) | Corrected Amplitude (dB $\mu$ V/m) | FCC Part 15.407      |             |
|-------------------------------------|----------------------|---------------------|-------------------------|------------|---------------|-------------------------|------------------------------------|----------------------|-------------|
|                                     | Reading (dB $\mu$ V) | Detector (PK/QP/AV) |                         | Height (m) | Polar (H / V) |                         |                                    | Limit (dB $\mu$ V/m) | Margin (dB) |
| 802.11N20 MIMO + No-BF (Worst case) |                      |                     |                         |            |               |                         |                                    |                      |             |
| 5745MHz                             |                      |                     |                         |            |               |                         |                                    |                      |             |
| 5650                                | 65.11                | PK                  | 13                      | 2.1        | H             | -1.95                   | 63.16                              | 68.2                 | -5.04       |
| 5650                                | 65.11                | PK                  | 187                     | 2.3        | V             | -1.95                   | 63.16                              | 68.2                 | -5.04       |
| 5700                                | 71.18                | PK                  | 234                     | 1.4        | H             | -2.02                   | 69.16                              | 105.2                | -36.04      |
| 5700                                | 69.16                | PK                  | 349                     | 2.2        | V             | -2.02                   | 67.14                              | 105.2                | -38.06      |
| 5720                                | 85.38                | PK                  | 24                      | 2          | H             | -2.00                   | 83.38                              | 110.8                | -27.42      |
| 5720                                | 85.38                | PK                  | 141                     | 2.3        | V             | -2.00                   | 83.38                              | 110.8                | -27.42      |
| 5725                                | 92.43                | PK                  | 189                     | 1.7        | H             | -2.00                   | 90.43                              | 122.2                | -31.77      |
| 5725                                | 90.02                | PK                  | 90                      | 1.7        | V             | -2.00                   | 88.02                              | 122.2                | -34.18      |
| 11490                               | 45.83                | PK                  | 182                     | 1.6        | H             | 6.58                    | 52.41                              | 74                   | -21.59      |
| 11490                               | 50.87                | PK                  | 272                     | 1.3        | V             | 6.58                    | 57.45                              | 74                   | -16.55      |
| 11490                               | 43.74                | AV                  | 287                     | 1.3        | V             | 6.58                    | 50.32                              | 54                   | -3.68       |
| 5785MHz                             |                      |                     |                         |            |               |                         |                                    |                      |             |
| 11570                               | 46.57                | PK                  | 113                     | 1.7        | H             | 6.60                    | 53.17                              | 74                   | -20.83      |
| 11570                               | 51.86                | PK                  | 129                     | 2          | V             | 6.60                    | 58.46                              | 74                   | -15.54      |
| 11570                               | 44.17                | AV                  | 129                     | 2          | V             | 6.60                    | 50.77                              | 54                   | -3.23       |
| 5825MHz                             |                      |                     |                         |            |               |                         |                                    |                      |             |
| 5850                                | 89.55                | PK                  | 297                     | 1.6        | H             | -1.81                   | 87.74                              | 122.2                | -34.46      |
| 5850                                | 86.43                | PK                  | 3                       | 2.1        | V             | -1.81                   | 84.62                              | 122.2                | -37.58      |
| 5855                                | 259.86               | PK                  | 219                     | 1.3        | H             | -1.81                   | 78.86                              | 110.8                | -31.94      |
| 5855                                | 76.58                | PK                  | 220                     | 1.3        | V             | -1.81                   | 74.77                              | 110.8                | -36.03      |
| 5875                                | 68.65                | PK                  | 266                     | 1.4        | H             | -1.84                   | 66.81                              | 105.2                | -38.39      |
| 5875                                | 67.75                | PK                  | 18                      | 1.6        | V             | -1.84                   | 65.91                              | 105.2                | -39.29      |
| 5925                                | 66.01                | PK                  | 111                     | 1.7        | H             | -1.80                   | 64.21                              | 68.2                 | -3.99       |
| 5925                                | 66.01                | PK                  | 347                     | 1.7        | V             | -1.80                   | 64.21                              | 68.2                 | -3.99       |
| 11650                               | 45.12                | PK                  | 114                     | 1.2        | H             | 6.77                    | 51.89                              | 74                   | -22.11      |
| 11650                               | 51.19                | PK                  | 141                     | 1.5        | V             | 6.77                    | 57.96                              | 74                   | -16.04      |
| 11650                               | 43.49                | AV                  | 141                     | 1.5        | V             | 6.77                    | 50.26                              | 54                   | -3.74       |



| Frequency (MHz)                     | Receiver             |                     | Turn-Table Angle Degree | Rx Antenna |               | Corrected Factor (dB/m) | Corrected Amplitude (dB $\mu$ V/m) | FCC Part 15.407      |             |
|-------------------------------------|----------------------|---------------------|-------------------------|------------|---------------|-------------------------|------------------------------------|----------------------|-------------|
|                                     | Reading (dB $\mu$ V) | Detector (PK/QP/AV) |                         | Height (m) | Polar (H / V) |                         |                                    | Limit (dB $\mu$ V/m) | Margin (dB) |
| 802.11N40 MIMO + No-BF (Worst case) |                      |                     |                         |            |               |                         |                                    |                      |             |
| 5755MHz                             |                      |                     |                         |            |               |                         |                                    |                      |             |
| 5650                                | 65.04                | PK                  | 100                     | 2.2        | H             | -1.95                   | 63.09                              | 68.2                 | -5.11       |
| 5650                                | 64.96                | PK                  | 323                     | 1.8        | V             | -1.95                   | 63.01                              | 68.2                 | -5.19       |
| 5700                                | 77.49                | PK                  | 146                     | 2.4        | H             | -2.02                   | 75.47                              | 105.2                | -29.73      |
| 5700                                | 74.38                | PK                  | 319                     | 2.1        | V             | -2.02                   | 72.36                              | 105.2                | -32.84      |
| 5720                                | 82.09                | PK                  | 175                     | 2.1        | H             | -2.00                   | 80.09                              | 110.8                | -30.71      |
| 5720                                | 79.20                | PK                  | 147                     | 1.4        | V             | -2.00                   | 77.20                              | 110.8                | -33.6       |
| 5725                                | 92.20                | PK                  | 215                     | 1.7        | H             | -2.00                   | 90.20                              | 122.2                | -32.00      |
| 5725                                | 90.18                | PK                  | 90                      | 1.7        | V             | -2.00                   | 88.18                              | 122.2                | -34.02      |
| 11510                               | 45.30                | PK                  | 199                     | 1.3        | H             | 6.50                    | 51.80                              | 74                   | -22.20      |
| 11510                               | 48.48                | PK                  | 232                     | 2.4        | V             | 6.50                    | 54.98                              | 74                   | -19.02      |
| 11510                               | 42.87                | AV                  | 147                     | 2.4        | V             | 6.50                    | 49.37                              | 54                   | -4.63       |
| 5795MHz                             |                      |                     |                         |            |               |                         |                                    |                      |             |
| 5850                                | 77.61                | PK                  | 276                     | 2.4        | H             | -1.81                   | 75.80                              | 122.2                | -46.4       |
| 5850                                | 73.33                | PK                  | 68                      | 2.4        | V             | -1.81                   | 71.52                              | 122.2                | -50.68      |
| 5855                                | 251.56               | PK                  | 244                     | 1.4        | H             | -1.81                   | 70.56                              | 110.8                | -40.24      |
| 5855                                | 70.33                | PK                  | 268                     | 1.5        | V             | -1.81                   | 68.52                              | 110.8                | -42.28      |
| 5875                                | 68.01                | PK                  | 66                      | 1.6        | H             | -1.84                   | 66.17                              | 105.2                | -39.03      |
| 5875                                | 67.60                | PK                  | 113                     | 2.3        | V             | -1.84                   | 65.76                              | 105.2                | -39.44      |
| 5925                                | 66.06                | PK                  | 104                     | 1.7        | H             | -1.80                   | 64.26                              | 68.2                 | -3.94       |
| 5925                                | 65.56                | PK                  | 168                     | 1.7        | V             | -1.80                   | 63.76                              | 68.2                 | -4.44       |
| 11590                               | 45.03                | PK                  | 87                      | 1.5        | H             | 6.58                    | 51.61                              | 74                   | -22.39      |
| 11590                               | 48.55                | PK                  | 332                     | 2.5        | V             | 6.58                    | 55.13                              | 74                   | -18.87      |
| 11590                               | 42.92                | AV                  | 55                      | 2.5        | V             | 6.58                    | 49.50                              | 54                   | -4.50       |

| Frequency (MHz)                      | Receiver       |                     | Turn-Table Angle Degree | Rx Antenna |               | Corrected Factor (dB/m) | Corrected Amplitude (dBμV/m) | FCC Part 15.407 |             |
|--------------------------------------|----------------|---------------------|-------------------------|------------|---------------|-------------------------|------------------------------|-----------------|-------------|
|                                      | Reading (dBμV) | Detector (PK/QP/AV) |                         | Height (m) | Polar (H / V) |                         |                              | Limit (dBμV/m)  | Margin (dB) |
| 802.11AC20 MIMO + No-BF (Worst case) |                |                     |                         |            |               |                         |                              |                 |             |
| 5745MHz                              |                |                     |                         |            |               |                         |                              |                 |             |
| 5650                                 | 65.19          | PK                  | 225                     | 2.4        | H             | -1.95                   | 63.24                        | 68.2            | -4.96       |
| 5650                                 | 65.29          | PK                  | 252                     | 1.1        | V             | -1.95                   | 63.34                        | 68.2            | -4.86       |
| 5700                                 | 72.21          | PK                  | 121                     | 1.6        | H             | -2.02                   | 70.19                        | 105.2           | -35.01      |
| 5700                                 | 70.23          | PK                  | 180                     | 2.1        | V             | -2.02                   | 68.21                        | 105.2           | -36.99      |
| 5720                                 | 87.02          | PK                  | 256                     | 1.7        | H             | -2.00                   | 85.02                        | 110.8           | -25.78      |
| 5720                                 | 83.10          | PK                  | 6                       | 2.1        | V             | -2.00                   | 81.1                         | 110.8           | -29.7       |
| 5725                                 | 91.48          | PK                  | 230                     | 1.7        | H             | -2.00                   | 89.48                        | 122.2           | -32.72      |
| 5725                                 | 88.41          | PK                  | 335                     | 1.7        | V             | -2.00                   | 86.41                        | 122.2           | -35.79      |
| 11490                                | 45.70          | PK                  | 149                     | 1.5        | H             | 6.58                    | 52.28                        | 74              | -21.72      |
| 11490                                | 48.72          | PK                  | 283                     | 1.8        | V             | 6.58                    | 55.30                        | 74              | -18.70      |
| 11490                                | 41.68          | AV                  | 330                     | 1.8        | V             | 6.58                    | 48.26                        | 54              | -5.74       |
| 5785MHz                              |                |                     |                         |            |               |                         |                              |                 |             |
| 11570                                | 45.42          | PK                  | 355                     | 1.7        | H             | 6.60                    | 52.02                        | 74              | -21.98      |
| 11570                                | 48.54          | PK                  | 331                     | 1.7        | H             | 6.60                    | 55.14                        | 74              | -18.86      |
| 11570                                | 41.91          | AV                  | 46                      | 1.7        | V             | 6.60                    | 48.51                        | 54              | -5.49       |
| 5825MHz                              |                |                     |                         |            |               |                         |                              |                 |             |
| 5850                                 | 89.21          | PK                  | 64                      | 2.1        | H             | -1.81                   | 87.40                        | 122.2           | -34.8       |
| 5850                                 | 86.57          | PK                  | 68                      | 1.2        | V             | -1.81                   | 84.76                        | 122.2           | -37.44      |
| 5855                                 | 259.56         | PK                  | 111                     | 1.6        | H             | -1.81                   | 78.56                        | 110.8           | -32.24      |
| 5855                                 | 75.29          | PK                  | 4                       | 1.2        | V             | -1.81                   | 73.48                        | 110.8           | -37.32      |
| 5875                                 | 69.32          | PK                  | 330                     | 1.9        | H             | -1.84                   | 67.48                        | 105.2           | -37.72      |
| 5875                                 | 68.87          | PK                  | 85                      | 1.5        | V             | -1.84                   | 67.03                        | 105.2           | -38.17      |
| 5925                                 | 66.11          | PK                  | 268                     | 1.7        | H             | -1.80                   | 64.31                        | 68.2            | -3.89       |
| 5925                                 | 66.13          | PK                  | 37                      | 1.7        | V             | -1.80                   | 64.33                        | 68.2            | -3.87       |
| 11650                                | 44.10          | PK                  | 32                      | 1.8        | H             | 6.77                    | 50.87                        | 74              | -23.13      |
| 11650                                | 47.37          | PK                  | 148                     | 2.2        | V             | 6.77                    | 54.14                        | 74              | -19.86      |
| 11650                                | 40.13          | AV                  | 86                      | 2.2        | V             | 6.77                    | 46.90                        | 54              | -7.10       |

| Frequency (MHz)                      | Receiver             |                     | Turn-Table Angle Degree | Rx Antenna |               | Corrected Factor (dB/m) | Corrected Amplitude (dB $\mu$ V/m) | FCC Part 15.407      |             |
|--------------------------------------|----------------------|---------------------|-------------------------|------------|---------------|-------------------------|------------------------------------|----------------------|-------------|
|                                      | Reading (dB $\mu$ V) | Detector (PK/QP/AV) |                         | Height (m) | Polar (H / V) |                         |                                    | Limit (dB $\mu$ V/m) | Margin (dB) |
| 802.11AC40 MIMO + No-BF (Worst case) |                      |                     |                         |            |               |                         |                                    |                      |             |
| 5755MHz                              |                      |                     |                         |            |               |                         |                                    |                      |             |
| 5650                                 | 65.35                | PK                  | 308                     | 1.1        | H             | -1.95                   | 63.40                              | 68.2                 | -4.8        |
| 5650                                 | 65.21                | PK                  | 181                     | 2.2        | V             | -1.95                   | 63.26                              | 68.2                 | -4.94       |
| 5700                                 | 77.20                | PK                  | 117                     | 1          | H             | -2.02                   | 75.18                              | 105.2                | -30.02      |
| 5700                                 | 74.34                | PK                  | 142                     | 1.9        | V             | -2.02                   | 72.32                              | 105.2                | -32.88      |
| 5720                                 | 82.10                | PK                  | 81                      | 1.1        | H             | -2.00                   | 80.1                               | 110.8                | -30.7       |
| 5720                                 | 79.04                | PK                  | 199                     | 1.8        | V             | -2.00                   | 77.04                              | 110.8                | -33.76      |
| 5725                                 | 91.45                | PK                  | 26                      | 1.7        | H             | -2.00                   | 89.45                              | 122.2                | -32.75      |
| 5725                                 | 90.07                | PK                  | 79                      | 1.7        | V             | -2.00                   | 88.07                              | 122.2                | -34.13      |
| 11510                                | 45.73                | PK                  | 340                     | 2          | H             | 6.50                    | 52.23                              | 74                   | -21.77      |
| 11510                                | 48.72                | PK                  | 205                     | 1.2        | V             | 6.50                    | 55.22                              | 74                   | -18.78      |
| 11510                                | 41.53                | AV                  | 132                     | 1.2        | V             | 6.50                    | 48.03                              | 54                   | -5.97       |
| 5795MHz                              |                      |                     |                         |            |               |                         |                                    |                      |             |
| 5850                                 | 78.38                | PK                  | 229                     | 2.1        | H             | -1.81                   | 76.57                              | 122.2                | -45.63      |
| 5850                                 | 73.39                | PK                  | 125                     | 2.3        | V             | -1.81                   | 71.58                              | 122.2                | -50.62      |
| 5855                                 | 250.57               | PK                  | 340                     | 2.5        | H             | -1.81                   | 69.57                              | 110.8                | -41.23      |
| 5855                                 | 70.47                | PK                  | 49                      | 2.2        | V             | -1.81                   | 68.66                              | 110.8                | -42.14      |
| 5875                                 | 68.12                | PK                  | 10                      | 1.2        | H             | -1.84                   | 66.28                              | 105.2                | -38.92      |
| 5875                                 | 68.02                | PK                  | 219                     | 2          | V             | -1.84                   | 66.18                              | 105.2                | -39.02      |
| 5925                                 | 65.77                | PK                  | 74                      | 1.7        | H             | -1.80                   | 63.97                              | 68.2                 | -4.23       |
| 5925                                 | 65.55                | PK                  | 197                     | 1.7        | V             | -1.80                   | 63.75                              | 68.2                 | -4.45       |
| 11590                                | 45.46                | PK                  | 249                     | 1.5        | H             | 6.58                    | 52.04                              | 74                   | -21.96      |
| 11590                                | 48.62                | PK                  | 90                      | 2.1        | V             | 6.58                    | 55.20                              | 74                   | -18.80      |
| 11590                                | 41.43                | AV                  | 196                     | 2.1        | V             | 6.58                    | 48.01                              | 54                   | -5.99       |

| Frequency (MHz)                      | Receiver       |                     | Turn-Table Angle Degree | Rx Antenna |               | Corrected Factor (dB/m) | Corrected Amplitude (dBμV/m) | FCC Part 15.407 |             |
|--------------------------------------|----------------|---------------------|-------------------------|------------|---------------|-------------------------|------------------------------|-----------------|-------------|
|                                      | Reading (dBμV) | Detector (PK/QP/AV) |                         | Height (m) | Polar (H / V) |                         |                              | Limit (dBμV/m)  | Margin (dB) |
| 802.11AC80 MIMO + No-BF (Worst case) |                |                     |                         |            |               |                         |                              |                 |             |
| 5775MHz                              |                |                     |                         |            |               |                         |                              |                 |             |
| 5650                                 | 68.30          | PK                  | 100                     | 2.3        | H             | -1.95                   | 66.35                        | 68.2            | -1.85       |
| 5650                                 | 66.35          | PK                  | 93                      | 2          | V             | -1.95                   | 64.40                        | 68.2            | -3.8        |
| 5700                                 | 74.19          | PK                  | 178                     | 2.3        | H             | -2.02                   | 72.17                        | 105.2           | -33.03      |
| 5700                                 | 72.34          | PK                  | 262                     | 2          | V             | -2.02                   | 70.32                        | 105.2           | -34.88      |
| 5720                                 | 80.44          | PK                  | 188                     | 1.9        | H             | -2.00                   | 78.44                        | 110.8           | -32.36      |
| 5720                                 | 77.15          | PK                  | 37                      | 1.9        | V             | -2.00                   | 75.15                        | 110.8           | -35.65      |
| 5725                                 | 81.45          | PK                  | 4                       | 1.7        | H             | -2.00                   | 79.45                        | 122.2           | -42.75      |
| 5725                                 | 79.40          | PK                  | 227                     | 1.7        | V             | -2.00                   | 77.40                        | 122.2           | -44.80      |
| 5850                                 | 78.51          | PK                  | 17                      | 2.1        | H             | -1.81                   | 76.70                        | 122.2           | -45.50      |
| 5850                                 | 76.54          | PK                  | 175                     | 1          | V             | -1.81                   | 74.73                        | 122.2           | -47.47      |
| 5855                                 | 253.81         | PK                  | 34                      | 1.9        | H             | -1.81                   | 72.81                        | 110.8           | -37.99      |
| 5855                                 | 71.51          | PK                  | 35                      | 1.8        | V             | -1.81                   | 69.70                        | 110.8           | -41.10      |
| 5875                                 | 71.74          | PK                  | 123                     | 1.8        | H             | -1.84                   | 69.90                        | 105.2           | -35.30      |
| 5875                                 | 68.23          | PK                  | 56                      | 2.4        | V             | -1.84                   | 66.39                        | 105.2           | -38.81      |
| 5925                                 | 65.44          | PK                  | 168                     | 1.7        | H             | -1.8                    | 63.64                        | 68.2            | -4.56       |
| 5925                                 | 65.47          | PK                  | 81                      | 1.7        | V             | -1.8                    | 63.67                        | 68.2            | -4.53       |
| 11550                                | 45.72          | PK                  | 344                     | 2.2        | H             | 6.61                    | 52.33                        | 74              | -21.67      |
| 11550                                | 46.58          | PK                  | 136                     | 1.5        | V             | 6.61                    | 53.19                        | 74              | -20.81      |

| Frequency (MHz)                      | Receiver       |                     | Turn-Table Angle Degree | Rx Antenna |               | Corrected Factor (dB/m) | Corrected Amplitude (dBμV/m) | FCC Part 15.407 |             |
|--------------------------------------|----------------|---------------------|-------------------------|------------|---------------|-------------------------|------------------------------|-----------------|-------------|
|                                      | Reading (dBμV) | Detector (PK/QP/AV) |                         | Height (m) | Polar (H / V) |                         |                              | Limit (dBμV/m)  | Margin (dB) |
| 802.11AX20 MIMO + No-BF (Worst case) |                |                     |                         |            |               |                         |                              |                 |             |
| 5745MHz_26Tone_RU0(Worst Case)       |                |                     |                         |            |               |                         |                              |                 |             |
| 5650                                 | 65.17          | PK                  | 338                     | 2.4        | H             | -1.95                   | 63.22                        | 68.2            | -4.98       |
| 5650                                 | 65.44          | PK                  | 290                     | 1.6        | V             | -1.95                   | 63.49                        | 68.2            | -4.71       |
| 5700                                 | 72.44          | PK                  | 115                     | 1.4        | H             | -2.02                   | 70.42                        | 105.2           | -34.78      |
| 5700                                 | 70.45          | PK                  | 2                       | 1.9        | V             | -2.02                   | 68.43                        | 105.2           | -36.77      |
| 5720                                 | 87.20          | PK                  | 235                     | 1          | H             | -2.00                   | 85.2                         | 110.8           | -25.60      |
| 5720                                 | 83.49          | PK                  | 223                     | 1.1        | V             | -2.00                   | 81.49                        | 110.8           | -29.31      |
| 5725                                 | 91.18          | PK                  | 206                     | 1.7        | H             | -2.00                   | 89.18                        | 122.2           | -33.02      |
| 5725                                 | 88.00          | PK                  | 105                     | 1.7        | V             | -2.00                   | 86.00                        | 122.2           | -36.20      |
| 5745MHz_242Tone_RU61(Worst Case)     |                |                     |                         |            |               |                         |                              |                 |             |
| 11490                                | 45.88          | PK                  | 279                     | 1          | H             | 6.58                    | 52.46                        | 74              | -21.54      |
| 11490                                | 48.48          | PK                  | 112                     | 2.1        | V             | 6.58                    | 55.06                        | 74              | -18.94      |
| 11490                                | 42.68          | AV                  | 31                      | 2.1        | V             | 6.58                    | 49.26                        | 54              | -4.74       |
| 5785MHz_242Tone_RU61(Worst Case)     |                |                     |                         |            |               |                         |                              |                 |             |
| 11570                                | 45.46          | PK                  | 269                     | 1.7        | H             | 6.60                    | 52.06                        | 74              | -21.94      |
| 11570                                | 48.85          | PK                  | 313                     | 1.7        | H             | 6.60                    | 55.45                        | 74              | -18.55      |
| 11570                                | 42.61          | AV                  | 179                     | 1.7        | V             | 6.60                    | 49.21                        | 54              | -4.79       |
| 5825MHz_26Tone_RU8(Worst Case)       |                |                     |                         |            |               |                         |                              |                 |             |
| 5850                                 | 89.64          | PK                  | 131                     | 2.1        | H             | -1.81                   | 87.83                        | 122.2           | -34.37      |
| 5850                                 | 85.35          | PK                  | 204                     | 2.5        | V             | -1.81                   | 83.54                        | 122.2           | -38.66      |
| 5855                                 | 259.76         | PK                  | 113                     | 1.8        | H             | -1.81                   | 78.76                        | 110.8           | -32.04      |
| 5855                                 | 75.67          | PK                  | 336                     | 1.8        | V             | -1.81                   | 73.86                        | 110.8           | -36.94      |
| 5875                                 | 70.80          | PK                  | 275                     | 2.4        | H             | -1.84                   | 68.96                        | 105.2           | -36.24      |
| 5875                                 | 67.23          | PK                  | 271                     | 1.7        | V             | -1.84                   | 65.39                        | 105.2           | -39.81      |
| 5925                                 | 66.12          | PK                  | 265                     | 1.7        | H             | -1.80                   | 64.32                        | 68.2            | -3.88       |
| 5925                                 | 65.80          | PK                  | 249                     | 1.7        | V             | -1.80                   | 64.00                        | 68.2            | -4.20       |
| 5825MHz_242Tone_RU61(Worst Case)     |                |                     |                         |            |               |                         |                              |                 |             |
| 11650                                | 44.24          | PK                  | 173                     | 1          | H             | 6.77                    | 51.01                        | 74              | -22.99      |
| 11650                                | 47.12          | PK                  | 358                     | 2          | V             | 6.77                    | 53.89                        | 74              | -20.11      |

| Frequency (MHz)                      | Receiver             |                     | Turn-Table Angle Degree | Rx Antenna |               | Corrected Factor (dB/m) | Corrected Amplitude (dB $\mu$ V/m) | FCC Part 15.407      |             |
|--------------------------------------|----------------------|---------------------|-------------------------|------------|---------------|-------------------------|------------------------------------|----------------------|-------------|
|                                      | Reading (dB $\mu$ V) | Detector (PK/QP/AV) |                         | Height (m) | Polar (H / V) |                         |                                    | Limit (dB $\mu$ V/m) | Margin (dB) |
| 802.11AX40 MIMO + No-BF (Worst case) |                      |                     |                         |            |               |                         |                                    |                      |             |
| 5755MHz_26Tone_RU0(Worst Case)       |                      |                     |                         |            |               |                         |                                    |                      |             |
| 5650                                 | 65.40                | PK                  | 165                     | 2.5        | H             | -1.95                   | 63.45                              | 68.2                 | -4.75       |
| 5650                                 | 65.15                | PK                  | 184                     | 2          | V             | -1.95                   | 63.20                              | 68.2                 | -5.00       |
| 5700                                 | 77.43                | PK                  | 227                     | 1.4        | H             | -2.02                   | 75.41                              | 105.2                | -29.79      |
| 5700                                 | 73.31                | PK                  | 180                     | 2.1        | V             | -2.02                   | 71.29                              | 105.2                | -33.91      |
| 5720                                 | 82.05                | PK                  | 203                     | 1.9        | H             | -2.00                   | 80.05                              | 110.8                | -30.75      |
| 5720                                 | 80.00                | PK                  | 326                     | 1.1        | V             | -2.00                   | 78.00                              | 110.8                | -32.8       |
| 5725                                 | 91.44                | PK                  | 62                      | 1.7        | H             | -2.00                   | 89.44                              | 122.2                | -32.76      |
| 5725                                 | 88.17                | PK                  | 188                     | 1.7        | V             | -2.00                   | 86.17                              | 122.2                | -36.03      |
| 5755MHz_484Tone_RU65(Worst Case)     |                      |                     |                         |            |               |                         |                                    |                      |             |
| 11510                                | 45.67                | PK                  | 274                     | 2.5        | H             | 6.50                    | 52.17                              | 74                   | -21.83      |
| 11510                                | 48.97                | PK                  | 299                     | 2.1        | V             | 6.50                    | 55.47                              | 74                   | -18.53      |
| 11510                                | 41.71                | AV                  | 257                     | 2.1        | V             | 6.50                    | 48.21                              | 54                   | -5.79       |
| 5795MHz_26Tone_RU17(Worst Case)      |                      |                     |                         |            |               |                         |                                    |                      |             |
| 5850                                 | 78.30                | PK                  | 29                      | 2.3        | H             | -1.81                   | 76.49                              | 122.2                | -45.71      |
| 5850                                 | 73.50                | PK                  | 118                     | 1.5        | V             | -1.81                   | 71.69                              | 122.2                | -50.51      |
| 5855                                 | 250.61               | PK                  | 351                     | 1.2        | H             | -1.81                   | 69.61                              | 110.8                | -41.19      |
| 5855                                 | 69.31                | PK                  | 274                     | 1.2        | V             | -1.81                   | 67.5                               | 110.8                | -43.30      |
| 5875                                 | 67.66                | PK                  | 19                      | 2.3        | H             | -1.84                   | 65.82                              | 105.2                | -39.38      |
| 5875                                 | 68.16                | PK                  | 269                     | 1.1        | V             | -1.84                   | 66.32                              | 105.2                | -38.88      |
| 5925                                 | 65.46                | PK                  | 43                      | 1.7        | H             | -1.80                   | 63.66                              | 68.2                 | -4.54       |
| 5925                                 | 65.63                | PK                  | 57                      | 1.7        | V             | -1.80                   | 63.83                              | 68.2                 | -4.37       |
| 5795MHz_484Tone_RU65(Worst Case)     |                      |                     |                         |            |               |                         |                                    |                      |             |
| 11590                                | 45.47                | PK                  | 107                     | 1.2        | H             | 6.58                    | 52.05                              | 74                   | -21.95      |
| 11590                                | 48.75                | PK                  | 15                      | 1.7        | V             | 6.58                    | 55.33                              | 74                   | -18.67      |
| 11590                                | 41.74                | AV                  | 269                     | 1.7        | V             | 6.58                    | 48.32                              | 54                   | -5.68       |

| Frequency (MHz)                      | Receiver       |                     | Turn-Table Angle Degree | Rx Antenna |               | Corrected Factor (dB/m) | Corrected Amplitude (dBμV/m) | FCC Part 15.407 |             |
|--------------------------------------|----------------|---------------------|-------------------------|------------|---------------|-------------------------|------------------------------|-----------------|-------------|
|                                      | Reading (dBμV) | Detector (PK/QP/AV) |                         | Height (m) | Polar (H / V) |                         |                              | Limit (dBμV/m)  | Margin (dB) |
| 802.11AX80 MIMO + No-BF (Worst case) |                |                     |                         |            |               |                         |                              |                 |             |
| 5775MHz_26Tone_RU0(Worst Case)       |                |                     |                         |            |               |                         |                              |                 |             |
| 5650                                 | 68.23          | PK                  | 352                     | 2          | H             | -1.95                   | 66.28                        | 68.2            | -1.92       |
| 5650                                 | 66.14          | PK                  | 282                     | 1.4        | V             | -1.95                   | 64.19                        | 68.2            | -4.01       |
| 5700                                 | 74.12          | PK                  | 143                     | 1.1        | H             | -2.02                   | 72.1                         | 105.2           | -33.1       |
| 5700                                 | 72.43          | PK                  | 290                     | 1.4        | V             | -2.02                   | 70.41                        | 105.2           | -34.79      |
| 5720                                 | 80.39          | PK                  | 126                     | 2.3        | H             | -2.00                   | 78.39                        | 110.8           | -32.41      |
| 5720                                 | 77.15          | PK                  | 151                     | 1.5        | V             | -2.00                   | 75.15                        | 110.8           | -35.65      |
| 5725                                 | 81.38          | PK                  | 26                      | 1.7        | H             | -2.00                   | 79.38                        | 122.2           | -42.82      |
| 5725                                 | 79.18          | PK                  | 33                      | 1.7        | V             | -2.00                   | 77.18                        | 122.2           | -45.02      |
| 5775MHz_26Tone_RU36(Worst Case)      |                |                     |                         |            |               |                         |                              |                 |             |
| 5850                                 | 78.41          | PK                  | 116                     | 1.6        | H             | -1.81                   | 76.60                        | 122.2           | -45.60      |
| 5850                                 | 76.46          | PK                  | 306                     | 1.9        | V             | -1.81                   | 74.65                        | 122.2           | -47.55      |
| 5855                                 | 253.78         | PK                  | 166                     | 2.4        | H             | -1.81                   | 72.78                        | 110.8           | -38.02      |
| 5855                                 | 71.64          | PK                  | 233                     | 1.4        | V             | -1.81                   | 69.83                        | 110.8           | -40.97      |
| 5875                                 | 72.14          | PK                  | 359                     | 1.3        | H             | -1.84                   | 70.3                         | 105.2           | -34.90      |
| 5875                                 | 71.25          | PK                  | 259                     | 2.2        | V             | -1.84                   | 69.41                        | 105.2           | -35.79      |
| 5925                                 | 65.43          | PK                  | 309                     | 1.7        | H             | -1.80                   | 63.63                        | 68.2            | -4.57       |
| 5925                                 | 65.95          | PK                  | 9                       | 1.7        | V             | -1.80                   | 64.15                        | 68.2            | -4.05       |
| 5775MHz_996Tone_RU67(Worst Case)     |                |                     |                         |            |               |                         |                              |                 |             |
| 11550                                | 45.60          | PK                  | 340                     | 2.2        | H             | 6.61                    | 52.21                        | 74              | -21.79      |
| 11550                                | 46.71          | PK                  | 289                     | 2.3        | V             | 6.61                    | 53.32                        | 74              | -20.68      |

**Simultaneously transmission:**

Worst case is 2.4G Wi-Fi (802.11b mode, 2437MHz) & 5G Wi-Fi (802.11a mode, 5320MHz)

| Frequency (MHz) | Receiver             |            | Turntable Degree | Rx Antenna |             | Corrected Factor (dB/m) | Corrected Amplitude (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) |
|-----------------|----------------------|------------|------------------|------------|-------------|-------------------------|------------------------------------|----------------------|-------------|
|                 | Reading (dB $\mu$ V) | PK/QP/Ave. |                  | Height (m) | Polar (H/V) |                         |                                    |                      |             |
| 336.04          | 44.96                | PK         | 36               | 1.1        | H           | -7.58                   | 37.38                              | 46                   | -8.62       |
| 336.04          | 44.61                | PK         | 88               | 1.3        | V           | -7.58                   | 37.03                              | 46                   | -8.97       |
| 4874            | 59.06                | PK         | 273              | 2.1        | H           | -3.42                   | 55.64                              | 74                   | -18.36      |
| 4874            | 51.13                | AV         | 273              | 2.1        | H           | -3.42                   | 47.71                              | 54                   | -6.29       |
| 4874            | 60.51                | PK         | 271              | 1.1        | V           | -3.42                   | 57.09                              | 74                   | -16.91      |
| 4874            | 53.24                | AV         | 271              | 1.1        | V           | -3.42                   | 49.82                              | 54                   | -4.18       |
| 10640           | 45.95                | PK         | 316              | 1.1        | H           | 8.93                    | 54.88                              | 74                   | -19.12      |
| 10640           | 37.51                | AV         | 316              | 1.1        | H           | 8.93                    | 46.44                              | 54                   | -7.56       |
| 10640           | 47.51                | PK         | 243              | 2.4        | V           | 8.93                    | 56.44                              | 74                   | -17.56      |
| 10640           | 43.79                | AV         | 243              | 2.4        | V           | 8.93                    | 52.72                              | 54                   | -1.28       |

**Note:**

Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor

Absolute Level (Corrected Amplitude)= Factor + Reading

Margin = Absolute Level (Corrected Amplitude) - Limit

The other spurious emission which is 20dB below to the limit or in the noise floor was not recorded.

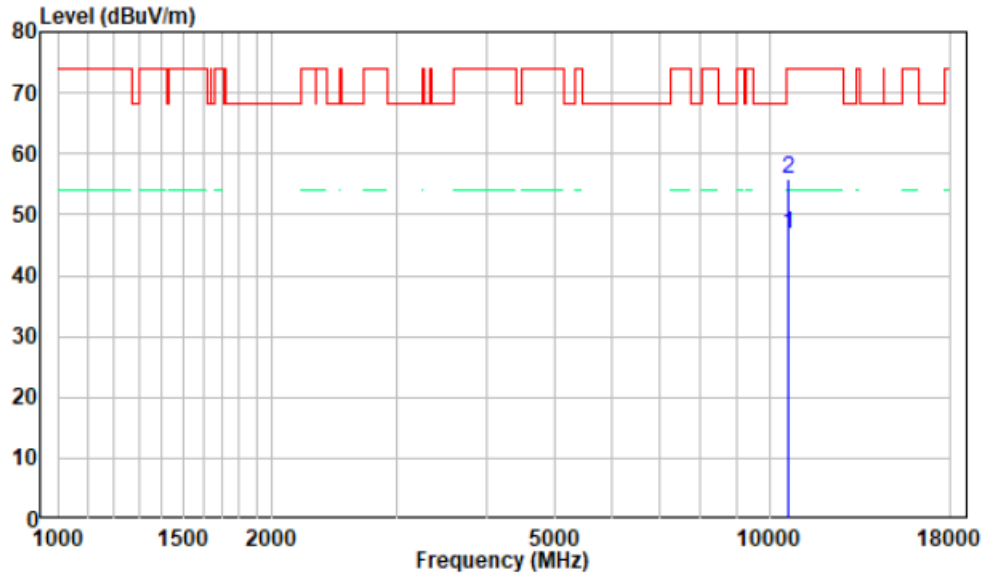
The test result of peak was less than the limit of average, so just peak values were recorded.



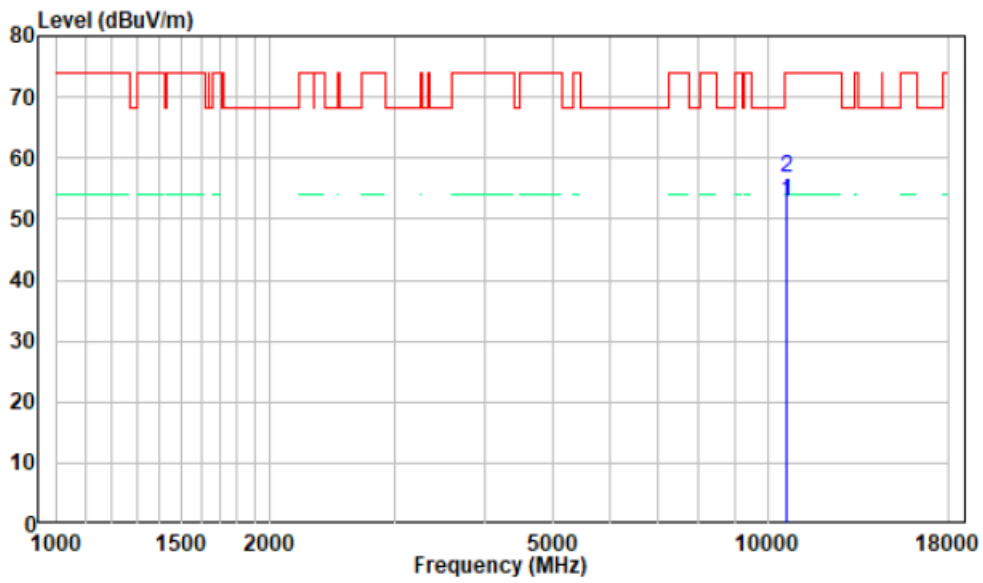
1-18 GHz:

Pre-scan Plots:

802.11 a 5320MHz  
Horizontal



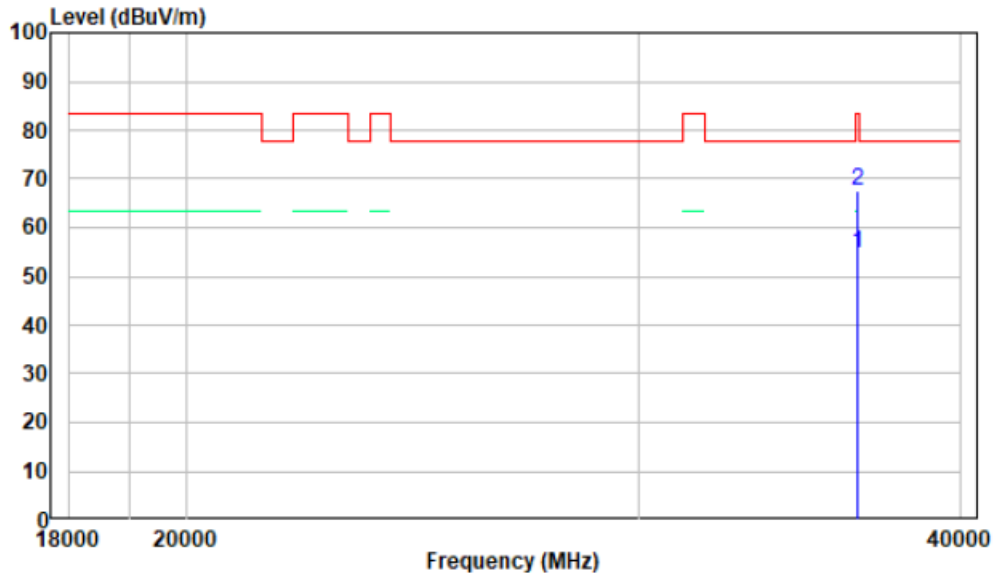
Vertical



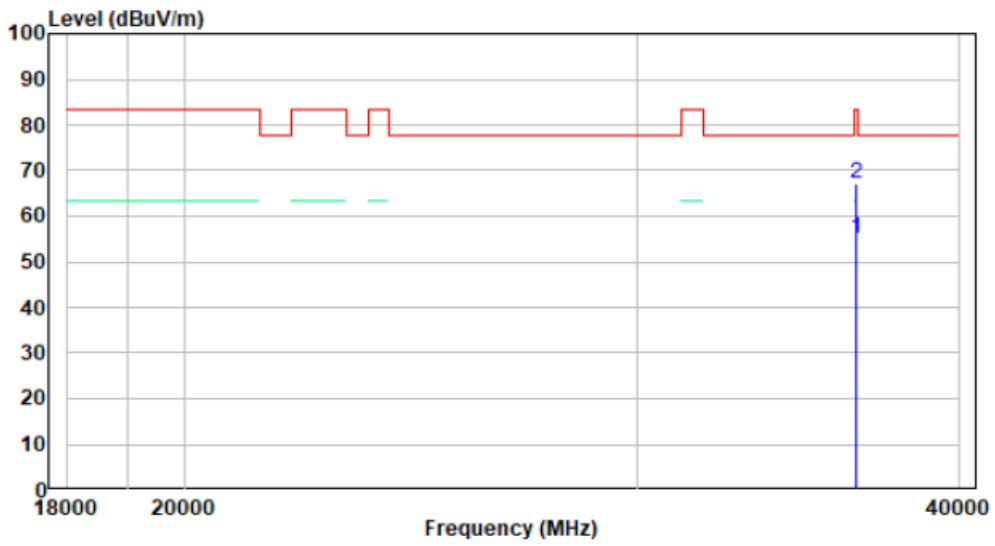
18 -40GHz:

Pre-scan Plots:

802.11 a 5320MHz  
Horizontal



Vertical



## **FCC §15.407(a),(e) – 26 dB & 6dB EMISSION BANDWIDTH**

### **Applicable Standard**

The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band are made over a reference bandwidth of 500 kHz or the 26 dB emission bandwidth of the device, whichever is less. Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth.

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

### **Test Procedure**

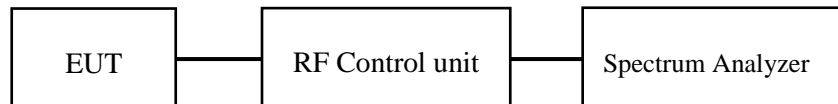
#### **1. Emission Bandwidth (EBW)**

- a) Set RBW = approximately 1% of the emission bandwidth.
- b) Set the VBW > RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

#### **2. Minimum Emission Bandwidth for the band 5.725-5.85 GHz**

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

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW)  $\geq 3 \times$  RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.



**Test Data****Environmental Conditions**

|                           |            |
|---------------------------|------------|
| <b>Temperature:</b>       | 25.8~29 °C |
| <b>Relative Humidity:</b> | 51~55 %    |
| <b>ATM Pressure:</b>      | 101.0 kPa  |

*The testing was performed by Kei Pei from 2022-04-03 to 2022-05-27.*

*EUT operation mode: Transmitting*

**Test Result: Pass**

*Please refer to the Appendix A.*

*Note: the worst case ANT 1 was tested.*

## FCC §15.407(a) – CONDUCTED TRANSMITTER OUTPUT POWER

### Applicable Standard

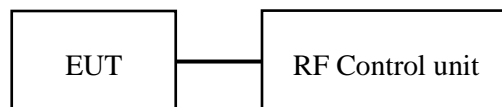
For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or  $11 \text{ dBm} + 10 \log B$ , where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

### Test Procedure

- d. Place the EUT on a bench and set it in transmitting mode.
- e. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to one test equipment.
- f. Add a correction factor to the display.



Note: the RF control unit has built-in power sensor.

**Test Data****Environmental Conditions**

|                           |            |
|---------------------------|------------|
| <b>Temperature:</b>       | 25.8~29 °C |
| <b>Relative Humidity:</b> | 51~55 %    |
| <b>ATM Pressure:</b>      | 101.0 kPa  |

The testing was performed by Kei Pei from 2022-04-03 to 2022-07-05.

EUT operation mode: Transmitting

**Test Result: Pass**

| Test Mode | Antenna | Channel | Result [dBm] | Limit [dBm] | Elevation angle above 30° Max Gain[dBi] | EIRP [dBm] | EIRP Limit [dBm] | Verdict |
|-----------|---------|---------|--------------|-------------|---|------------|------------------|---------|
| 11A-CDD   | Ant1    | 5180    | 14.63        | ≤30.0       | -2.2                                    | 12.43      | ≤21              | PASS    |
|           | Ant2    | 5180    | 15.76        | ≤30.0       | -2.2                                    | 13.56      | ≤21              | PASS    |
|           | Ant3    | 5180    | 14.97        | ≤30.0       | -2.2                                    | 12.77      | ≤21              | PASS    |
|           | Ant4    | 5180    | 16.11        | ≤30.0       | -2.2                                    | 13.91      | ≤21              | PASS    |
|           | total   | 5180    | 21.43        | ≤30.0       | -2.2                                    | 19.23      | ≤21              | PASS    |
|           | Ant1    | 5200    | 15.23        | ≤30.0       | -2.2                                    | 13.03      | ≤21              | PASS    |
|           | Ant2    | 5200    | 15.78        | ≤30.0       | -2.2                                    | 13.58      | ≤21              | PASS    |
|           | Ant3    | 5200    | 15.41        | ≤30.0       | -2.2                                    | 13.21      | ≤21              | PASS    |
|           | Ant4    | 5200    | 16.71        | ≤30.0       | -2.2                                    | 14.51      | ≤21              | PASS    |
|           | total   | 5200    | 21.84        | ≤30.0       | -2.2                                    | 19.64      | ≤21              | PASS    |
|           | Ant1    | 5240    | 16.12        | ≤30.0       | -2.2                                    | 13.92      | ≤21              | PASS    |
|           | Ant2    | 5240    | 16.80        | ≤30.0       | -2.2                                    | 14.60      | ≤21              | PASS    |
|           | Ant3    | 5240    | 16.17        | ≤30.0       | -2.2                                    | 13.97      | ≤21              | PASS    |
|           | Ant4    | 5240    | 16.84        | ≤30.0       | -2.2                                    | 14.64      | ≤21              | PASS    |
|           | total   | 5240    | 22.52        | ≤30.0       | -2.2                                    | 20.32      | ≤21              | PASS    |
| 11N20MIMO | Ant1    | 5180    | 10.65        | ≤26.5       | 3.8                                     | 14.45      | ≤21              | PASS    |
|           | Ant2    | 5180    | 10.51        | ≤26.5       | 3.8                                     | 14.31      | ≤21              | PASS    |
|           | Ant3    | 5180    | 10.70        | ≤26.5       | 3.8                                     | 14.50      | ≤21              | PASS    |
|           | Ant4    | 5180    | 11.07        | ≤26.5       | 3.8                                     | 14.87      | ≤21              | PASS    |
|           | total   | 5180    | 16.76        | ≤26.5       | 3.8                                     | 20.56      | ≤21              | PASS    |
|           | Ant1    | 5200    | 10.71        | ≤26.5       | 3.8                                     | 14.51      | ≤21              | PASS    |
|           | Ant2    | 5200    | 10.72        | ≤26.5       | 3.8                                     | 14.52      | ≤21              | PASS    |
|           | Ant3    | 5200    | 10.70        | ≤26.5       | 3.8                                     | 14.50      | ≤21              | PASS    |
|           | Ant4    | 5200    | 11.15        | ≤26.5       | 3.8                                     | 14.95      | ≤21              | PASS    |
|           | total   | 5200    | 16.84        | ≤26.5       | 3.8                                     | 20.64      | ≤21              | PASS    |
|           | Ant1    | 5240    | 11.26        | ≤26.5       | 3.8                                     | 15.06      | ≤21              | PASS    |
|           | Ant2    | 5240    | 11.04        | ≤26.5       | 3.8                                     | 14.84      | ≤21              | PASS    |
|           | Ant3    | 5240    | 11.32        | ≤26.5       | 3.8                                     | 15.12      | ≤21              | PASS    |
|           | Ant4    | 5240    | 10.69        | ≤26.5       | 3.8                                     | 14.49      | ≤21              | PASS    |

|            |       |       |             |             |       |           |           |      |
|------------|-------|-------|-------------|-------------|-------|-----------|-----------|------|
|            | total | 5240  | 17.11       | $\leq 26.5$ | 3.8   | 20.91     | $\leq 21$ | PASS |
| 11N40MIMO  | Ant1  | 5190  | 10.67       | $\leq 26.5$ | 3.8   | 14.47     | $\leq 21$ | PASS |
|            | Ant2  | 5190  | 11.83       | $\leq 26.5$ | 3.8   | 15.63     | $\leq 21$ | PASS |
|            | Ant3  | 5190  | 10.74       | $\leq 26.5$ | 3.8   | 14.54     | $\leq 21$ | PASS |
|            | Ant4  | 5190  | 11.07       | $\leq 26.5$ | 3.8   | 14.87     | $\leq 21$ | PASS |
|            | total | 5190  | 17.12       | $\leq 26.5$ | 3.8   | 20.92     | $\leq 21$ | PASS |
|            | Ant1  | 5230  | 11.26       | $\leq 26.5$ | 3.8   | 15.06     | $\leq 21$ | PASS |
|            | Ant2  | 5230  | 11.89       | $\leq 26.5$ | 3.8   | 15.69     | $\leq 21$ | PASS |
|            | Ant3  | 5230  | 10.39       | $\leq 26.5$ | 3.8   | 14.19     | $\leq 21$ | PASS |
|            | Ant4  | 5230  | 10.78       | $\leq 26.5$ | 3.8   | 14.58     | $\leq 21$ | PASS |
|            | total | 5230  | 17.14       | $\leq 26.5$ | 3.8   | 20.94     | $\leq 21$ | PASS |
| 11AC20MIMO | Ant1  | 5180  | 10.74       | $\leq 26.5$ | 3.8   | 14.54     | $\leq 21$ | PASS |
|            | Ant2  | 5180  | 11.57       | $\leq 26.5$ | 3.8   | 15.37     | $\leq 21$ | PASS |
|            | Ant3  | 5180  | 10.69       | $\leq 26.5$ | 3.8   | 14.49     | $\leq 21$ | PASS |
|            | Ant4  | 5180  | 11.01       | $\leq 26.5$ | 3.8   | 14.81     | $\leq 21$ | PASS |
|            | total | 5180  | 17.04       | $\leq 26.5$ | 3.8   | 20.84     | $\leq 21$ | PASS |
|            | Ant1  | 5200  | 10.88       | $\leq 26.5$ | 3.8   | 14.68     | $\leq 21$ | PASS |
|            | Ant2  | 5200  | 11.51       | $\leq 26.5$ | 3.8   | 15.31     | $\leq 21$ | PASS |
|            | Ant3  | 5200  | 10.86       | $\leq 26.5$ | 3.8   | 14.66     | $\leq 21$ | PASS |
|            | Ant4  | 5200  | 11.20       | $\leq 26.5$ | 3.8   | 15.00     | $\leq 21$ | PASS |
|            | total | 5200  | 17.14       | $\leq 26.5$ | 3.8   | 20.94     | $\leq 21$ | PASS |
|            | Ant1  | 5240  | 11.23       | $\leq 26.5$ | 3.8   | 15.03     | $\leq 21$ | PASS |
|            | Ant2  | 5240  | 10.97       | $\leq 26.5$ | 3.8   | 14.77     | $\leq 21$ | PASS |
|            | Ant3  | 5240  | 11.19       | $\leq 26.5$ | 3.8   | 14.99     | $\leq 21$ | PASS |
|            | Ant4  | 5240  | 11.17       | $\leq 26.5$ | 3.8   | 14.97     | $\leq 21$ | PASS |
| total      | 5240  | 17.16 | $\leq 26.5$ | 3.8         | 20.96 | $\leq 21$ | PASS      |      |
| 11AC40MIMO | Ant1  | 5190  | 10.31       | $\leq 26.5$ | 3.8   | 14.11     | $\leq 21$ | PASS |
|            | Ant2  | 5190  | 11.35       | $\leq 26.5$ | 3.8   | 15.15     | $\leq 21$ | PASS |
|            | Ant3  | 5190  | 10.26       | $\leq 26.5$ | 3.8   | 14.06     | $\leq 21$ | PASS |
|            | Ant4  | 5190  | 10.67       | $\leq 26.5$ | 3.8   | 14.47     | $\leq 21$ | PASS |
|            | total | 5190  | 16.69       | $\leq 26.5$ | 3.8   | 20.49     | $\leq 21$ | PASS |
|            | Ant1  | 5230  | 11.27       | $\leq 26.5$ | 3.8   | 15.07     | $\leq 21$ | PASS |
|            | Ant2  | 5230  | 10.98       | $\leq 26.5$ | 3.8   | 14.78     | $\leq 21$ | PASS |
|            | Ant3  | 5230  | 11.21       | $\leq 26.5$ | 3.8   | 15.01     | $\leq 21$ | PASS |
|            | Ant4  | 5230  | 11.20       | $\leq 26.5$ | 3.8   | 15.00     | $\leq 21$ | PASS |
| total      | 5230  | 17.19 | $\leq 26.5$ | 3.8         | 20.99 | $\leq 21$ | PASS      |      |
| 11AC80MIMO | Ant1  | 5210  | 11.22       | $\leq 26.5$ | 3.8   | 15.02     | $\leq 21$ | PASS |
|            | Ant2  | 5210  | 11.04       | $\leq 26.5$ | 3.8   | 14.84     | $\leq 21$ | PASS |
|            | Ant3  | 5210  | 11.27       | $\leq 26.5$ | 3.8   | 15.07     | $\leq 21$ | PASS |
|            | Ant4  | 5210  | 11.16       | $\leq 26.5$ | 3.8   | 14.96     | $\leq 21$ | PASS |
|            | total | 5210  | 17.19       | $\leq 26.5$ | 3.8   | 20.99     | $\leq 21$ | PASS |

| Test Mode | Antenna | Channel      | Result[dBm] | Limit[dBm] | Verdict |
|-----------|---------|--------------|-------------|------------|---------|
| 11A-CDD   | Ant1    | 5260         | 12.58       | ≤23.83     | PASS    |
|           | Ant2    | 5260         | 12.82       | ≤23.83     | PASS    |
|           | Ant3    | 5260         | 12.25       | ≤23.83     | PASS    |
|           | Ant4    | 5260         | 12.59       | ≤23.83     | PASS    |
|           | total   | 5260         | 18.59       | ≤23.83     | PASS    |
|           | Ant1    | 5280         | 12.85       | ≤23.89     | PASS    |
|           | Ant2    | 5280         | 12.37       | ≤23.89     | PASS    |
|           | Ant3    | 5280         | 12.25       | ≤23.89     | PASS    |
|           | Ant4    | 5280         | 12.88       | ≤23.89     | PASS    |
|           | total   | 5280         | 18.62       | ≤23.89     | PASS    |
|           | Ant1    | 5320         | 12.35       | ≤23.90     | PASS    |
|           | Ant2    | 5320         | 12.42       | ≤23.90     | PASS    |
|           | Ant3    | 5320         | 11.99       | ≤23.90     | PASS    |
|           | Ant4    | 5320         | 12.31       | ≤23.90     | PASS    |
|           | total   | 5320         | 18.29       | ≤23.90     | PASS    |
|           | Ant1    | 5500         | 11.81       | ≤23.97     | PASS    |
|           | Ant2    | 5500         | 12.58       | ≤23.97     | PASS    |
|           | Ant3    | 5500         | 12.01       | ≤23.97     | PASS    |
|           | Ant4    | 5500         | 12.82       | ≤23.97     | PASS    |
|           | total   | 5500         | 18.34       | ≤23.97     | PASS    |
|           | Ant1    | 5580         | 12.42       | ≤23.94     | PASS    |
|           | Ant2    | 5580         | 13.12       | ≤23.94     | PASS    |
|           | Ant3    | 5580         | 12.10       | ≤23.94     | PASS    |
|           | Ant4    | 5580         | 13.67       | ≤23.94     | PASS    |
|           | total   | 5580         | 18.89       | ≤23.94     | PASS    |
|           | Ant1    | 5720_UNII-2C | 12.55       | ≤22.69     | PASS    |
|           | Ant2    | 5720_UNII-2C | 12.13       | ≤22.69     | PASS    |
|           | Ant3    | 5720_UNII-2C | 12.21       | ≤22.69     | PASS    |
|           | Ant4    | 5720_UNII-2C | 11.82       | ≤22.69     | PASS    |
|           | total   | 5720_UNII-2C | 18.21       | ≤22.69     | PASS    |
|           | Ant1    | 5720_UNII-3  | 3.22        | ≤30.00     | PASS    |
|           | Ant2    | 5720_UNII-3  | 3.74        | ≤30.00     | PASS    |
|           | Ant3    | 5720_UNII-3  | 3.96        | ≤30.00     | PASS    |
|           | Ant4    | 5720_UNII-3  | 3.69        | ≤30.00     | PASS    |
|           | total   | 5720_UNII-3  | 9.68        | ≤30.00     | PASS    |
|           | Ant1    | 5745         | 17.89       | ≤30.00     | PASS    |
|           | Ant2    | 5745         | 17.73       | ≤30.00     | PASS    |
|           | Ant3    | 5745         | 16.39       | ≤30.00     | PASS    |
|           | Ant4    | 5745         | 18.06       | ≤30.00     | PASS    |
|           | total   | 5745         | 23.59       | ≤30.00     | PASS    |
|           | Ant1    | 5785         | 17.57       | ≤30.00     | PASS    |
|           | Ant2    | 5785         | 17.46       | ≤30.00     | PASS    |
|           | Ant3    | 5785         | 16.48       | ≤30.00     | PASS    |
|           | Ant4    | 5785         | 17.84       | ≤30.00     | PASS    |
|           | total   | 5785         | 23.39       | ≤30.00     | PASS    |
|           | Ant1    | 5825         | 17.64       | ≤30.00     | PASS    |
|           | Ant2    | 5825         | 17.31       | ≤30.00     | PASS    |
|           | Ant3    | 5825         | 17.02       | ≤30.00     | PASS    |
| Ant4      | 5825    | 17.58        | ≤30.00      | PASS       |         |
| total     | 5825    | 23.41        | ≤30.00      | PASS       |         |



| Test Mode | Antenna | Channel      | Result[dBm]  | Limit[dBm] | Verdict |      |
|-----------|---------|--------------|--------------|------------|---------|------|
| 11N20MIMO | Ant1    | 5260         | 11.36        | ≤20.48     | PASS    |      |
|           | Ant2    | 5260         | 11.18        | ≤20.48     | PASS    |      |
|           | Ant3    | 5260         | 11.05        | ≤20.48     | PASS    |      |
|           | Ant4    | 5260         | 12.02        | ≤20.48     | PASS    |      |
|           | total   | 5260         | 17.44        | ≤20.48     | PASS    |      |
|           | Ant1    | 5280         | 11.03        | ≤20.48     | PASS    |      |
|           | Ant2    | 5280         | 12.07        | ≤20.48     | PASS    |      |
|           | Ant3    | 5280         | 11.49        | ≤20.48     | PASS    |      |
|           | Ant4    | 5280         | 11.23        | ≤20.48     | PASS    |      |
|           | total   | 5280         | 17.49        | ≤20.48     | PASS    |      |
|           | Ant1    | 5320         | 11.03        | ≤20.48     | PASS    |      |
|           | Ant2    | 5320         | 11.32        | ≤20.48     | PASS    |      |
|           | Ant3    | 5320         | 11.63        | ≤20.48     | PASS    |      |
|           | Ant4    | 5320         | 11.24        | ≤20.48     | PASS    |      |
|           | total   | 5320         | 17.33        | ≤20.48     | PASS    |      |
|           | Ant1    | 5500         | 11.05        | ≤20.48     | PASS    |      |
|           | Ant2    | 5500         | 11.02        | ≤20.48     | PASS    |      |
|           | Ant3    | 5500         | 11.13        | ≤20.48     | PASS    |      |
|           | Ant4    | 5500         | 11.88        | ≤20.48     | PASS    |      |
|           | total   | 5500         | 17.31        | ≤20.48     | PASS    |      |
|           | Ant1    | 5580         | 11.83        | ≤20.48     | PASS    |      |
|           | Ant2    | 5580         | 11.28        | ≤20.48     | PASS    |      |
|           | Ant3    | 5580         | 11.03        | ≤20.48     | PASS    |      |
|           | Ant4    | 5580         | 11.62        | ≤20.48     | PASS    |      |
|           | total   | 5580         | 17.47        | ≤20.48     | PASS    |      |
|           | Ant1    | 5720_UNII-2C | 5720_UNII-2C | 10.49      | ≤19.33  | PASS |
|           | Ant2    | 5720_UNII-2C | 5720_UNII-2C | 11.54      | ≤19.33  | PASS |
|           | Ant3    | 5720_UNII-2C | 5720_UNII-2C | 11.55      | ≤19.33  | PASS |
|           | Ant4    | 5720_UNII-2C | 5720_UNII-2C | 11.21      | ≤19.33  | PASS |
|           | total   | 5720_UNII-2C | 5720_UNII-2C | 17.24      | ≤19.33  | PASS |
|           | Ant1    | 5720_UNII-3  | 5720_UNII-3  | 3.14       | ≤26.50  | PASS |
|           | Ant2    | 5720_UNII-3  | 5720_UNII-3  | 1.14       | ≤26.50  | PASS |
|           | Ant3    | 5720_UNII-3  | 5720_UNII-3  | 2.79       | ≤26.50  | PASS |
|           | Ant4    | 5720_UNII-3  | 5720_UNII-3  | 3.34       | ≤26.50  | PASS |
|           | total   | 5720_UNII-3  | 5720_UNII-3  | 8.70       | ≤26.50  | PASS |
|           | Ant1    | 5745         | 5745         | 17.94      | ≤26.50  | PASS |
|           | Ant2    | 5745         | 5745         | 17.82      | ≤26.50  | PASS |
|           | Ant3    | 5745         | 5745         | 16.64      | ≤26.50  | PASS |
|           | Ant4    | 5745         | 5745         | 17.38      | ≤26.50  | PASS |
|           | total   | 5745         | 5745         | 23.49      | ≤26.50  | PASS |
|           | Ant1    | 5785         | 5785         | 17.46      | ≤26.50  | PASS |
|           | Ant2    | 5785         | 5785         | 17.61      | ≤26.50  | PASS |
| Ant3      | 5785    | 5785         | 15.73        | ≤26.50     | PASS    |      |
| Ant4      | 5785    | 5785         | 17.44        | ≤26.50     | PASS    |      |
| total     | 5785    | 5785         | 23.14        | ≤26.50     | PASS    |      |
| Ant1      | 5825    | 5825         | 17.07        | ≤26.50     | PASS    |      |
| Ant2      | 5825    | 5825         | 18.03        | ≤26.50     | PASS    |      |
| Ant3      | 5825    | 5825         | 16.45        | ≤26.50     | PASS    |      |
| Ant4      | 5825    | 5825         | 17.45        | ≤26.50     | PASS    |      |
| total     | 5825    | 5825         | 23.31        | ≤26.50     | PASS    |      |

| Test Mode | Antenna | Channel      | Result[dBm]  | Limit[dBm] | Verdict |      |
|-----------|---------|--------------|--------------|------------|---------|------|
| 11N40MIMO | Ant1    | 5270         | 11.54        | ≤20.48     | PASS    |      |
|           | Ant2    | 5270         | 12.03        | ≤20.48     | PASS    |      |
|           | Ant3    | 5270         | 11.01        | ≤20.48     | PASS    |      |
|           | Ant4    | 5270         | 11.22        | ≤20.48     | PASS    |      |
|           | total   | 5270         | 17.49        | ≤20.48     | PASS    |      |
|           | Ant1    | 5310         | 11.56        | ≤20.48     | PASS    |      |
|           | Ant2    | 5310         | 11.83        | ≤20.48     | PASS    |      |
|           | Ant3    | 5310         | 11.32        | ≤20.48     | PASS    |      |
|           | Ant4    | 5310         | 11.09        | ≤20.48     | PASS    |      |
|           | total   | 5310         | 17.48        | ≤20.48     | PASS    |      |
|           | Ant1    | 5510         | 10.86        | ≤20.48     | PASS    |      |
|           | Ant2    | 5510         | 10.15        | ≤20.48     | PASS    |      |
|           | Ant3    | 5510         | 10.13        | ≤20.48     | PASS    |      |
|           | Ant4    | 5510         | 10.63        | ≤20.48     | PASS    |      |
|           | total   | 5510         | 16.47        | ≤20.48     | PASS    |      |
|           | Ant1    | 5550         | 10.22        | ≤20.48     | PASS    |      |
|           | Ant2    | 5550         | 10.25        | ≤20.48     | PASS    |      |
|           | Ant3    | 5550         | 10.65        | ≤20.48     | PASS    |      |
|           | Ant4    | 5550         | 10.72        | ≤20.48     | PASS    |      |
|           | total   | 5550         | 16.49        | ≤20.48     | PASS    |      |
|           | Ant1    | 5710_UNII-2C | 5710_UNII-2C | 11.83      | ≤20.48  | PASS |
|           | Ant2    | 5710_UNII-2C | 5710_UNII-2C | 11.23      | ≤20.48  | PASS |
|           | Ant3    | 5710_UNII-2C | 5710_UNII-2C | 11.28      | ≤20.48  | PASS |
|           | Ant4    | 5710_UNII-2C | 5710_UNII-2C | 11.23      | ≤20.48  | PASS |
|           | total   | 5710_UNII-2C | 5710_UNII-2C | 17.42      | ≤20.48  | PASS |
|           | Ant1    | 5710_UNII-3  | 5710_UNII-3  | 1.89       | ≤26.50  | PASS |
|           | Ant2    | 5710_UNII-3  | 5710_UNII-3  | 1.80       | ≤26.50  | PASS |
|           | Ant3    | 5710_UNII-3  | 5710_UNII-3  | 1.30       | ≤26.50  | PASS |
|           | Ant4    | 5710_UNII-3  | 5710_UNII-3  | 1.82       | ≤26.50  | PASS |
|           | total   | 5710_UNII-3  | 5710_UNII-3  | 7.73       | ≤26.50  | PASS |
|           | Ant1    | 5755         | 5755         | 18.37      | ≤26.50  | PASS |
|           | Ant2    | 5755         | 5755         | 17.65      | ≤26.50  | PASS |
|           | Ant3    | 5755         | 5755         | 16.40      | ≤26.50  | PASS |
|           | Ant4    | 5755         | 5755         | 18.05      | ≤26.50  | PASS |
|           | total   | 5755         | 5755         | 23.70      | ≤26.50  | PASS |
|           | Ant1    | 5795         | 5795         | 18.22      | ≤26.50  | PASS |
|           | Ant2    | 5795         | 5795         | 18.11      | ≤26.50  | PASS |
|           | Ant3    | 5795         | 5795         | 16.58      | ≤26.50  | PASS |
|           | Ant4    | 5795         | 5795         | 17.50      | ≤26.50  | PASS |
|           | total   | 5795         | 5795         | 23.67      | ≤26.50  | PASS |

| Test Mode  | Antenna | Channel      | Result[dBm]  | Limit[dBm] | Verdict |      |
|------------|---------|--------------|--------------|------------|---------|------|
| 11AC20MIMO | Ant1    | 5260         | 11.18        | ≤20.48     | PASS    |      |
|            | Ant2    | 5260         | 11.77        | ≤20.48     | PASS    |      |
|            | Ant3    | 5260         | 10.76        | ≤20.48     | PASS    |      |
|            | Ant4    | 5260         | 12.05        | ≤20.48     | PASS    |      |
|            | total   | 5260         | 17.49        | ≤20.48     | PASS    |      |
|            | Ant1    | 5280         | 11.98        | ≤20.48     | PASS    |      |
|            | Ant2    | 5280         | 11.16        | ≤20.48     | PASS    |      |
|            | Ant3    | 5280         | 11.03        | ≤20.48     | PASS    |      |
|            | Ant4    | 5280         | 11.53        | ≤20.48     | PASS    |      |
|            | total   | 5280         | 17.46        | ≤20.48     | PASS    |      |
|            | Ant1    | 5320         | 11.12        | ≤20.48     | PASS    |      |
|            | Ant2    | 5320         | 11.56        | ≤20.48     | PASS    |      |
|            | Ant3    | 5320         | 11.42        | ≤20.48     | PASS    |      |
|            | Ant4    | 5320         | 11.21        | ≤20.48     | PASS    |      |
|            | total   | 5320         | 17.35        | ≤20.48     | PASS    |      |
|            | Ant1    | 5500         | 11.05        | ≤20.48     | PASS    |      |
|            | Ant2    | 5500         | 11.41        | ≤20.48     | PASS    |      |
|            | Ant3    | 5500         | 11.11        | ≤20.48     | PASS    |      |
|            | Ant4    | 5500         | 11.53        | ≤20.48     | PASS    |      |
|            | total   | 5500         | 17.30        | ≤20.48     | PASS    |      |
|            | Ant1    | 5580         | 12.06        | ≤20.48     | PASS    |      |
|            | Ant2    | 5580         | 11.23        | ≤20.48     | PASS    |      |
|            | Ant3    | 5580         | 11.03        | ≤20.48     | PASS    |      |
|            | Ant4    | 5580         | 11.43        | ≤20.48     | PASS    |      |
|            | total   | 5580         | 17.48        | ≤20.48     | PASS    |      |
|            | Ant1    | 5720_UNII-2C | 5720_UNII-2C | 11.01      | ≤19.30  | PASS |
|            | Ant2    | 5720_UNII-2C | 5720_UNII-2C | 11.26      | ≤19.30  | PASS |
|            | Ant3    | 5720_UNII-2C | 5720_UNII-2C | 11.48      | ≤19.30  | PASS |
|            | Ant4    | 5720_UNII-2C | 5720_UNII-2C | 11.05      | ≤19.30  | PASS |
|            | total   | 5720_UNII-2C | 5720_UNII-2C | 17.22      | ≤19.30  | PASS |
|            | Ant1    | 5720_UNII-3  | 5720_UNII-3  | 4.13       | ≤26.50  | PASS |
|            | Ant2    | 5720_UNII-3  | 5720_UNII-3  | 3.77       | ≤26.50  | PASS |
|            | Ant3    | 5720_UNII-3  | 5720_UNII-3  | 4.70       | ≤26.50  | PASS |
|            | Ant4    | 5720_UNII-3  | 5720_UNII-3  | 3.08       | ≤26.50  | PASS |
|            | total   | 5720_UNII-3  | 5720_UNII-3  | 9.98       | ≤26.50  | PASS |
|            | Ant1    | 5745         | 5745         | 17.76      | ≤26.50  | PASS |
|            | Ant2    | 5745         | 5745         | 16.75      | ≤26.50  | PASS |
|            | Ant3    | 5745         | 5745         | 16.11      | ≤26.50  | PASS |
|            | Ant4    | 5745         | 5745         | 17.24      | ≤26.50  | PASS |
|            | total   | 5745         | 5745         | 23.03      | ≤26.50  | PASS |
| Ant1       | 5785    | 5785         | 17.79        | ≤26.50     | PASS    |      |
| Ant2       | 5785    | 5785         | 16.82        | ≤26.50     | PASS    |      |
| Ant3       | 5785    | 5785         | 17.24        | ≤26.50     | PASS    |      |
| Ant4       | 5785    | 5785         | 17.30        | ≤26.50     | PASS    |      |
| total      | 5785    | 5785         | 23.32        | ≤26.50     | PASS    |      |
| Ant1       | 5825    | 5825         | 17.95        | ≤26.50     | PASS    |      |
| Ant2       | 5825    | 5825         | 17.43        | ≤26.50     | PASS    |      |
| Ant3       | 5825    | 5825         | 17.26        | ≤26.50     | PASS    |      |
| Ant4       | 5825    | 5825         | 17.88        | ≤26.50     | PASS    |      |
| total      | 5825    | 5825         | 23.66        | ≤26.50     | PASS    |      |

| Test Mode  | Antenna | Channel      | Result[dBm]  | Limit[dBm] | Verdict |      |
|------------|---------|--------------|--------------|------------|---------|------|
| 11AC40MIMO | Ant1    | 5270         | 12.07        | ≤20.48     | PASS    |      |
|            | Ant2    | 5270         | 11.32        | ≤20.48     | PASS    |      |
|            | Ant3    | 5270         | 10.83        | ≤20.48     | PASS    |      |
|            | Ant4    | 5270         | 11.56        | ≤20.48     | PASS    |      |
|            | total   | 5270         | 17.49        | ≤20.48     | PASS    |      |
|            | Ant1    | 5310         | 11.56        | ≤20.48     | PASS    |      |
|            | Ant2    | 5310         | 11.71        | ≤20.48     | PASS    |      |
|            | Ant3    | 5310         | 10.55        | ≤20.48     | PASS    |      |
|            | Ant4    | 5310         | 11.68        | ≤20.48     | PASS    |      |
|            | total   | 5310         | 17.42        | ≤20.48     | PASS    |      |
|            | Ant1    | 5510         | 10.83        | ≤20.48     | PASS    |      |
|            | Ant2    | 5510         | 11.02        | ≤20.48     | PASS    |      |
|            | Ant3    | 5510         | 10.27        | ≤20.48     | PASS    |      |
|            | Ant4    | 5510         | 11.33        | ≤20.48     | PASS    |      |
|            | total   | 5510         | 16.90        | ≤20.48     | PASS    |      |
|            | Ant1    | 5550         | 10.44        | ≤20.48     | PASS    |      |
|            | Ant2    | 5550         | 10.58        | ≤20.48     | PASS    |      |
|            | Ant3    | 5550         | 10.57        | ≤20.48     | PASS    |      |
|            | Ant4    | 5550         | 11.29        | ≤20.48     | PASS    |      |
|            | total   | 5550         | 16.75        | ≤20.48     | PASS    |      |
|            | Ant1    | 5710_UNII-2C | 5710_UNII-2C | 11.71      | ≤20.48  | PASS |
|            | Ant2    | 5710_UNII-2C | 5710_UNII-2C | 11.40      | ≤20.48  | PASS |
|            | Ant3    | 5710_UNII-2C | 5710_UNII-2C | 11.32      | ≤20.48  | PASS |
|            | Ant4    | 5710_UNII-2C | 5710_UNII-2C | 11.19      | ≤20.48  | PASS |
|            | total   | 5710_UNII-2C | 5710_UNII-2C | 17.43      | ≤20.48  | PASS |
|            | Ant1    | 5710_UNII-3  | 5710_UNII-3  | 1.84       | ≤26.50  | PASS |
|            | Ant2    | 5710_UNII-3  | 5710_UNII-3  | 1.12       | ≤26.50  | PASS |
|            | Ant3    | 5710_UNII-3  | 5710_UNII-3  | 0.85       | ≤26.50  | PASS |
|            | Ant4    | 5710_UNII-3  | 5710_UNII-3  | 1.59       | ≤26.50  | PASS |
|            | total   | 5710_UNII-3  | 5710_UNII-3  | 7.39       | ≤26.50  | PASS |
|            | Ant1    | 5755         | 5755         | 18.38      | ≤26.50  | PASS |
|            | Ant2    | 5755         | 5755         | 17.07      | ≤26.50  | PASS |
|            | Ant3    | 5755         | 5755         | 16.26      | ≤26.50  | PASS |
|            | Ant4    | 5755         | 5755         | 18.19      | ≤26.50  | PASS |
|            | total   | 5755         | 5755         | 23.58      | ≤26.50  | PASS |
|            | Ant1    | 5795         | 5795         | 18.01      | ≤26.50  | PASS |
|            | Ant2    | 5795         | 5795         | 17.34      | ≤26.50  | PASS |
|            | Ant3    | 5795         | 5795         | 17.06      | ≤26.50  | PASS |
|            | Ant4    | 5795         | 5795         | 18.04      | ≤26.50  | PASS |
|            | total   | 5795         | 5795         | 23.65      | ≤26.50  | PASS |

| Test Mode  | Antenna | Channel      | Result[dBm] | Limit[dBm] | Verdict |
|------------|---------|--------------|-------------|------------|---------|
| 11AC80MIMO | Ant1    | 5290         | 11.29       | ≤20.48     | PASS    |
|            | Ant2    | 5290         | 11.64       | ≤20.48     | PASS    |
|            | Ant3    | 5290         | 11.20       | ≤20.48     | PASS    |
|            | Ant4    | 5290         | 11.74       | ≤20.48     | PASS    |
|            | total   | 5290         | 17.49       | ≤20.48     | PASS    |
|            | Ant1    | 5530         | 10.28       | ≤20.48     | PASS    |
|            | Ant2    | 5530         | 10.46       | ≤20.48     | PASS    |
|            | Ant3    | 5530         | 10.52       | ≤20.48     | PASS    |
|            | Ant4    | 5530         | 10.63       | ≤20.48     | PASS    |
|            | total   | 5530         | 16.49       | ≤20.48     | PASS    |
|            | Ant1    | 5610         | 10.83       | ≤20.48     | PASS    |
|            | Ant2    | 5610         | 10.92       | ≤20.48     | PASS    |
|            | Ant3    | 5610         | 10.96       | ≤20.48     | PASS    |
|            | Ant4    | 5610         | 11.03       | ≤20.48     | PASS    |
|            | total   | 5610         | 16.96       | ≤20.48     | PASS    |
|            | Ant1    | 5690_UNII-2C | 11.72       | ≤20.48     | PASS    |
|            | Ant2    | 5690_UNII-2C | 10.50       | ≤20.48     | PASS    |
|            | Ant3    | 5690_UNII-2C | 10.86       | ≤20.48     | PASS    |
|            | Ant4    | 5690_UNII-2C | 11.19       | ≤20.48     | PASS    |
|            | total   | 5690_UNII-2C | 17.11       | ≤20.48     | PASS    |
|            | Ant1    | 5690_UNII-3  | -3.27       | ≤26.50     | PASS    |
|            | Ant2    | 5690_UNII-3  | -3.93       | ≤26.50     | PASS    |
|            | Ant3    | 5690_UNII-3  | -4.19       | ≤26.50     | PASS    |
|            | Ant4    | 5690_UNII-3  | -3.14       | ≤26.50     | PASS    |
|            | total   | 5690_UNII-3  | 2.41        | ≤26.50     | PASS    |
|            | Ant1    | 5775         | 17.84       | ≤26.50     | PASS    |
|            | Ant2    | 5775         | 17.30       | ≤26.50     | PASS    |
|            | Ant3    | 5775         | 16.13       | ≤26.50     | PASS    |
|            | Ant4    | 5775         | 17.84       | ≤26.50     | PASS    |
|            | total   | 5775         | 23.35       | ≤26.50     | PASS    |

| Test Mode   | Antenna | Frequency [MHz] | Ru Size | Ru Index | Result [dBm] | Limit [dBm] | Elevation angle above 30° Max Gain[dBi] | EIRP [dBm] | EIRP Limit [dBm] | Verdict |
|-------------|---------|-----------------|---------|----------|--------------|-------------|---|------------|------------------|---------|
| 11AX20 MIMO | Ant1    | 5180            | 26Tone  | RU0      | 10.12        | ≤26.50      | 3.8                                     | 13.92      | 21               | PASS    |
|             |         |                 | 52Tone  | RU37     | 10.06        | ≤26.50      | 3.8                                     | 13.86      | 21               | PASS    |
|             |         |                 | 106Tone | RU53     | 10.81        | ≤26.50      | 3.8                                     | 14.61      | 21               | PASS    |
|             |         |                 | 242Tone | RU61     | 10.41        | ≤26.50      | 3.8                                     | 14.21      | 21               | PASS    |
|             | Ant2    | 5180            | 26Tone  | RU0      | 10.24        | ≤26.50      | 3.8                                     | 14.04      | 21               | PASS    |
|             |         |                 | 52Tone  | RU37     | 11.06        | ≤26.50      | 3.8                                     | 14.86      | 21               | PASS    |
|             |         |                 | 106Tone | RU53     | 10.50        | ≤26.50      | 3.8                                     | 14.30      | 21               | PASS    |
|             |         |                 | 242Tone | RU61     | 10.95        | ≤26.50      | 3.8                                     | 14.75      | 21               | PASS    |
|             | Ant3    | 5180            | 26Tone  | RU0      | 11.19        | ≤26.50      | 3.8                                     | 14.99      | 21               | PASS    |
|             |         |                 | 52Tone  | RU37     | 11.38        | ≤26.50      | 3.8                                     | 15.18      | 21               | PASS    |
|             |         |                 | 106Tone | RU53     | 10.63        | ≤26.50      | 3.8                                     | 14.43      | 21               | PASS    |
|             |         |                 | 242Tone | RU61     | 11.01        | ≤26.50      | 3.8                                     | 14.81      | 21               | PASS    |
|             | Ant4    | 5180            | 26Tone  | RU0      | 11.60        | ≤26.50      | 3.8                                     | 15.40      | 21               | PASS    |
|             |         |                 | 52Tone  | RU37     | 11.37        | ≤26.50      | 3.8                                     | 15.17      | 21               | PASS    |
|             |         |                 | 106Tone | RU53     | 11.38        | ≤26.50      | 3.8                                     | 15.18      | 21               | PASS    |
|             |         |                 | 242Tone | RU61     | 11.47        | ≤26.50      | 3.8                                     | 15.27      | 21               | PASS    |
|             | total   | 5180            | 26Tone  | RU0      | 16.85        | ≤26.50      | 3.8                                     | 20.65      | 21               | PASS    |
|             |         |                 | 52Tone  | RU37     | 17.02        | ≤26.50      | 3.8                                     | 20.82      | 21               | PASS    |
|             |         |                 | 106Tone | RU53     | 16.86        | ≤26.50      | 3.8                                     | 20.66      | 21               | PASS    |
|             |         |                 | 242Tone | RU61     | 17.00        | ≤26.50      | 3.8                                     | 20.80      | 21               | PASS    |
|             | Ant1    | 5200            | 26Tone  | RU0      | 10.98        | ≤26.50      | 3.8                                     | 14.78      | 21               | PASS    |
|             |         |                 | 52Tone  | RU37     | 10.22        | ≤26.50      | 3.8                                     | 14.02      | 21               | PASS    |
|             |         |                 | 106Tone | RU53     | 11.15        | ≤26.50      | 3.8                                     | 14.95      | 21               | PASS    |
|             |         |                 | 242Tone | RU61     | 10.61        | ≤26.50      | 3.8                                     | 14.41      | 21               | PASS    |
|             | Ant2    | 5200            | 26Tone  | RU0      | 11.20        | ≤26.50      | 3.8                                     | 15.00      | 21               | PASS    |
|             |         |                 | 52Tone  | RU37     | 11.08        | ≤26.50      | 3.8                                     | 14.88      | 21               | PASS    |
|             |         |                 | 106Tone | RU53     | 11.28        | ≤26.50      | 3.8                                     | 15.08      | 21               | PASS    |
|             |         |                 | 242Tone | RU61     | 10.33        | ≤26.50      | 3.8                                     | 14.13      | 21               | PASS    |
|             | Ant3    | 5200            | 26Tone  | RU0      | 10.24        | ≤26.50      | 3.8                                     | 14.04      | 21               | PASS    |
|             |         |                 | 52Tone  | RU37     | 10.88        | ≤26.50      | 3.8                                     | 14.68      | 21               | PASS    |
|             |         |                 | 106Tone | RU53     | 10.95        | ≤26.50      | 3.8                                     | 14.75      | 21               | PASS    |
|             |         |                 | 242Tone | RU61     | 11.36        | ≤26.50      | 3.8                                     | 15.16      | 21               | PASS    |
|             | Ant4    | 5200            | 26Tone  | RU0      | 10.60        | ≤26.50      | 3.8                                     | 14.40      | 21               | PASS    |
|             |         |                 | 52Tone  | RU37     | 11.46        | ≤26.50      | 3.8                                     | 15.26      | 21               | PASS    |
|             |         |                 | 106Tone | RU53     | 11.26        | ≤26.50      | 3.8                                     | 15.06      | 21               | PASS    |
|             |         |                 | 242Tone | RU61     | 11.82        | ≤26.50      | 3.8                                     | 15.62      | 21               | PASS    |
|             | total   | 5200            | 26Tone  | RU0      | 16.79        | ≤26.50      | 3.8                                     | 20.59      | 21               | PASS    |
|             |         |                 | 52Tone  | RU37     | 16.95        | ≤26.50      | 3.8                                     | 20.75      | 21               | PASS    |
|             |         |                 | 106Tone | RU53     | 17.18        | ≤26.50      | 3.8                                     | 20.98      | 21               | PASS    |
|             |         |                 | 242Tone | RU61     | 17.09        | ≤26.50      | 3.8                                     | 20.89      | 21               | PASS    |
|             | Ant1    | 5240            | 26Tone  | RU0      | 11.07        | ≤26.50      | 3.8                                     | 14.87      | 21               | PASS    |
|             |         |                 | 52Tone  | RU37     | 10.77        | ≤26.50      | 3.8                                     | 14.57      | 21               | PASS    |
|             |         |                 | 106Tone | RU53     | 10.55        | ≤26.50      | 3.8                                     | 14.35      | 21               | PASS    |
|             |         |                 | 242Tone | RU61     | 9.76         | ≤26.50      | 3.8                                     | 13.56      | 21               | PASS    |
| Ant2        | 5240    | 26Tone          | RU0     | 10.49    | ≤26.50       | 3.8         | 14.29                                   | 21         | PASS             |         |
|             |         | 52Tone          | RU37    | 10.27    | ≤26.50       | 3.8         | 14.07                                   | 21         | PASS             |         |
|             |         | 106Tone         | RU53    | 10.79    | ≤26.50       | 3.8         | 14.59                                   | 21         | PASS             |         |
|             |         | 242Tone         | RU61    | 10.01    | ≤26.50       | 3.8         | 13.81                                   | 21         | PASS             |         |
| Ant3        | 5240    | 26Tone          | RU0     | 10.10    | ≤26.50       | 3.8         | 13.90                                   | 21         | PASS             |         |
|             |         | 52Tone          | RU37    | 10.15    | ≤26.50       | 3.8         | 13.95                                   | 21         | PASS             |         |
|             |         | 106Tone         | RU53    | 10.51    | ≤26.50       | 3.8         | 14.31                                   | 21         | PASS             |         |
|             |         | 242Tone         | RU61    | 10.24    | ≤26.50       | 3.8         | 14.04                                   | 21         | PASS             |         |
| Ant4        | 5240    | 26Tone          | RU0     | 10.37    | ≤26.50       | 3.8         | 14.17                                   | 21         | PASS             |         |

|                |       |         |         |       |        |        |       |       |      |      |
|----------------|-------|---------|---------|-------|--------|--------|-------|-------|------|------|
| 11AX40<br>MIMO | total | 5240    | 52Tone  | RU37  | 10.14  | ≤26.50 | 3.8   | 13.94 | 21   | PASS |
|                |       |         | 106Tone | RU53  | 11.34  | ≤26.50 | 3.8   | 15.14 | 21   | PASS |
|                |       |         | 242Tone | RU61  | 10.62  | ≤26.50 | 3.8   | 14.42 | 21   | PASS |
|                |       |         | 26Tone  | RU0   | 16.54  | ≤26.50 | 3.8   | 20.34 | 21   | PASS |
|                |       |         | 52Tone  | RU37  | 16.36  | ≤26.50 | 3.8   | 20.16 | 21   | PASS |
|                |       |         | 106Tone | RU53  | 16.83  | ≤26.50 | 3.8   | 20.63 | 21   | PASS |
|                |       |         | 242Tone | RU61  | 16.19  | ≤26.50 | 3.8   | 19.99 | 21   | PASS |
|                | Ant1  | 5190    | 26Tone  | RU0   | 8.68   | ≤26.50 | 3.8   | 12.48 | 21   | PASS |
|                |       |         | 52Tone  | RU37  | 9.78   | ≤26.50 | 3.8   | 13.58 | 21   | PASS |
|                |       |         | 106Tone | RU53  | 9.77   | ≤26.50 | 3.8   | 13.57 | 21   | PASS |
|                |       |         | 242Tone | RU61  | 10.23  | ≤26.50 | 3.8   | 14.03 | 21   | PASS |
|                |       |         | 484Tone | RU65  | 10.74  | ≤26.50 | 3.8   | 14.54 | 21   | PASS |
|                | Ant2  | 5190    | 26Tone  | RU0   | 8.50   | ≤26.50 | 3.8   | 12.30 | 21   | PASS |
|                |       |         | 52Tone  | RU37  | 11.03  | ≤26.50 | 3.8   | 14.83 | 21   | PASS |
|                |       |         | 106Tone | RU53  | 9.56   | ≤26.50 | 3.8   | 13.36 | 21   | PASS |
|                |       |         | 242Tone | RU61  | 11.34  | ≤26.50 | 3.8   | 15.14 | 21   | PASS |
|                | Ant3  | 5190    | 484Tone | RU65  | 11.63  | ≤26.50 | 3.8   | 15.43 | 21   | PASS |
| 26Tone         |       |         | RU0     | 8.84  | ≤26.50 | 3.8    | 12.64 | 21    | PASS |      |
| 52Tone         |       |         | RU37    | 10.38 | ≤26.50 | 3.8    | 14.18 | 21    | PASS |      |
| 106Tone        |       |         | RU53    | 10.36 | ≤26.50 | 3.8    | 14.16 | 21    | PASS |      |
| Ant4           | 5190  | 242Tone | RU61    | 10.41 | ≤26.50 | 3.8    | 14.21 | 21    | PASS |      |
|                |       | 484Tone | RU65    | 10.57 | ≤26.50 | 3.8    | 14.37 | 21    | PASS |      |
|                |       | 26Tone  | RU0     | 9.46  | ≤26.50 | 3.8    | 13.26 | 21    | PASS |      |
|                |       | 52Tone  | RU37    | 10.10 | ≤26.50 | 3.8    | 13.90 | 21    | PASS |      |
| total          | 5190  | 106Tone | RU53    | 10.60 | ≤26.50 | 3.8    | 14.40 | 21    | PASS |      |
|                |       | 242Tone | RU61    | 10.95 | ≤26.50 | 3.8    | 14.75 | 21    | PASS |      |
|                |       | 484Tone | RU65    | 10.96 | ≤26.50 | 3.8    | 14.76 | 21    | PASS |      |
|                |       | 26Tone  | RU0     | 14.91 | ≤26.50 | 3.8    | 18.71 | 21    | PASS |      |
|                |       | 52Tone  | RU37    | 16.37 | ≤26.50 | 3.8    | 20.17 | 21    | PASS |      |
| Ant1           | 5230  | 106Tone | RU53    | 16.11 | ≤26.50 | 3.8    | 19.91 | 21    | PASS |      |
|                |       | 242Tone | RU61    | 16.78 | ≤26.50 | 3.8    | 20.58 | 21    | PASS |      |
|                |       | 484Tone | RU65    | 17.01 | ≤26.50 | 3.8    | 20.81 | 21    | PASS |      |
|                |       | 26Tone  | RU0     | 9.24  | ≤26.50 | 3.8    | 13.04 | 21    | PASS |      |
|                |       | 52Tone  | RU37    | 10.25 | ≤26.50 | 3.8    | 14.05 | 21    | PASS |      |
| Ant2           | 5230  | 106Tone | RU53    | 10.49 | ≤26.50 | 3.8    | 14.29 | 21    | PASS |      |
|                |       | 242Tone | RU61    | 10.97 | ≤26.50 | 3.8    | 14.77 | 21    | PASS |      |
|                |       | 484Tone | RU65    | 10.45 | ≤26.50 | 3.8    | 14.25 | 21    | PASS |      |
|                |       | 26Tone  | RU0     | 9.12  | ≤26.50 | 3.8    | 12.92 | 21    | PASS |      |
| Ant3           | 5230  | 52Tone  | RU37    | 10.28 | ≤26.50 | 3.8    | 14.08 | 21    | PASS |      |
|                |       | 106Tone | RU53    | 10.50 | ≤26.50 | 3.8    | 14.30 | 21    | PASS |      |
|                |       | 242Tone | RU61    | 10.37 | ≤26.50 | 3.8    | 14.17 | 21    | PASS |      |
|                |       | 484Tone | RU65    | 10.84 | ≤26.50 | 3.8    | 14.64 | 21    | PASS |      |
|                |       | 26Tone  | RU0     | 9.94  | ≤26.50 | 3.8    | 13.74 | 21    | PASS |      |
| Ant4           | 5230  | 52Tone  | RU37    | 11.10 | ≤26.50 | 3.8    | 14.90 | 21    | PASS |      |
|                |       | 106Tone | RU53    | 10.80 | ≤26.50 | 3.8    | 14.60 | 21    | PASS |      |
|                |       | 242Tone | RU61    | 11.23 | ≤26.50 | 3.8    | 15.03 | 21    | PASS |      |
|                |       | 484Tone | RU65    | 11.01 | ≤26.50 | 3.8    | 14.81 | 21    | PASS |      |
| total          | 5230  | 26Tone  | RU0     | 10.44 | ≤26.50 | 3.8    | 14.24 | 21    | PASS |      |
|                |       | 52Tone  | RU37    | 11.01 | ≤26.50 | 3.8    | 14.81 | 21    | PASS |      |
|                |       | 106Tone | RU53    | 11.09 | ≤26.50 | 3.8    | 14.89 | 21    | PASS |      |
|                |       | 242Tone | RU61    | 11.02 | ≤26.50 | 3.8    | 14.82 | 21    | PASS |      |
|                |       | 484Tone | RU65    | 11.50 | ≤26.50 | 3.8    | 15.30 | 21    | PASS |      |
| 11AX80         | Ant1  | 5210    | 26Tone  | RU0   | 15.74  | ≤26.50 | 3.8   | 19.54 | 21   | PASS |
|                |       |         | 52Tone  | RU37  | 16.70  | ≤26.50 | 3.8   | 20.50 | 21   | PASS |
|                |       |         | 106Tone | RU53  | 16.75  | ≤26.50 | 3.8   | 20.55 | 21   | PASS |
|                |       |         | 242Tone | RU61  | 16.93  | ≤26.50 | 3.8   | 20.73 | 21   | PASS |
|                |       |         | 484Tone | RU65  | 16.99  | ≤26.50 | 3.8   | 20.79 | 21   | PASS |
|                |       |         | 26Tone  | RU0   | 9.20   | ≤26.50 | 3.8   | 13.00 | 21   | PASS |

|      |       |      |         |         |       |              |              |       |       |      |      |
|------|-------|------|---------|---------|-------|--------------|--------------|-------|-------|------|------|
| MIMO |       |      | 52Tone  | RU37    | 10.27 | $\leq 26.50$ | 3.8          | 14.07 | 21    | PASS |      |
|      |       |      | 106Tone | RU53    | 10.85 | $\leq 26.50$ | 3.8          | 14.65 | 21    | PASS |      |
|      |       |      | 242Tone | RU61    | 10.86 | $\leq 26.50$ | 3.8          | 14.66 | 21    | PASS |      |
|      |       |      | 484Tone | RU65    | 10.64 | $\leq 26.50$ | 3.8          | 14.44 | 21    | PASS |      |
|      |       |      | 996Tone | RU67    | 10.67 | $\leq 26.50$ | 3.8          | 14.47 | 21    | PASS |      |
|      | Ant2  | 5210 | 26Tone  | RU0     | 10.13 | $\leq 26.50$ | 3.8          | 13.93 | 21    | PASS |      |
|      |       |      | 52Tone  | RU37    | 10.78 | $\leq 26.50$ | 3.8          | 14.58 | 21    | PASS |      |
|      |       |      | 106Tone | RU53    | 11.75 | $\leq 26.50$ | 3.8          | 15.55 | 21    | PASS |      |
|      |       |      | 242Tone | RU61    | 10.40 | $\leq 26.50$ | 3.8          | 14.20 | 21    | PASS |      |
|      |       |      | 484Tone | RU65    | 10.39 | $\leq 26.50$ | 3.8          | 14.19 | 21    | PASS |      |
|      | Ant3  | 5210 | 996Tone | RU67    | 11.03 | $\leq 26.50$ | 3.8          | 14.83 | 21    | PASS |      |
|      |       |      | 26Tone  | RU0     | 9.54  | $\leq 26.50$ | 3.8          | 13.34 | 21    | PASS |      |
|      |       |      | 52Tone  | RU37    | 10.64 | $\leq 26.50$ | 3.8          | 14.44 | 21    | PASS |      |
|      |       |      | 106Tone | RU53    | 10.71 | $\leq 26.50$ | 3.8          | 14.51 | 21    | PASS |      |
|      |       |      | 242Tone | RU61    | 11.10 | $\leq 26.50$ | 3.8          | 14.90 | 21    | PASS |      |
|      | Ant4  | 5210 | 484Tone | RU65    | 11.21 | $\leq 26.50$ | 3.8          | 15.01 | 21    | PASS |      |
|      |       |      | 996Tone | RU67    | 10.64 | $\leq 26.50$ | 3.8          | 14.44 | 21    | PASS |      |
|      |       |      | 26Tone  | RU0     | 9.93  | $\leq 26.50$ | 3.8          | 13.73 | 21    | PASS |      |
|      |       |      | 52Tone  | RU37    | 10.59 | $\leq 26.50$ | 3.8          | 14.39 | 21    | PASS |      |
|      |       |      | 106Tone | RU53    | 10.57 | $\leq 26.50$ | 3.8          | 14.37 | 21    | PASS |      |
|      | total | 5210 | 242Tone | RU61    | 11.28 | $\leq 26.50$ | 3.8          | 15.08 | 21    | PASS |      |
|      |       |      | 484Tone | RU65    | 11.01 | $\leq 26.50$ | 3.8          | 14.81 | 21    | PASS |      |
|      |       |      | 996Tone | RU67    | 10.89 | $\leq 26.50$ | 3.8          | 14.69 | 21    | PASS |      |
|      |       |      | 26Tone  | RU0     | 15.74 | $\leq 26.50$ | 3.8          | 19.54 | 21    | PASS |      |
|      |       |      | 52Tone  | RU37    | 16.59 | $\leq 26.50$ | 3.8          | 20.39 | 21    | PASS |      |
|      |       |      |         | 106Tone | RU53  | 17.02        | $\leq 26.50$ | 3.8   | 20.82 | 21   | PASS |
|      |       |      |         | 242Tone | RU61  | 16.94        | $\leq 26.50$ | 3.8   | 20.74 | 21   | PASS |
|      |       |      |         | 484Tone | RU65  | 16.84        | $\leq 26.50$ | 3.8   | 20.64 | 21   | PASS |
|      |       |      |         | 996Tone | RU67  | 16.83        | $\leq 26.50$ | 3.8   | 20.63 | 21   | PASS |



| Test Mode  | Antenna | Frequency[MHz] | Ru Size | Ru Index | Result [dBm] | Limit [dBm] | Verdict |
|------------|---------|----------------|---------|----------|--------------|-------------|---------|
| 11AX20MIMO | Ant1    | 5260           | 26Tone  | RU0      | 7.25         | ≤20.48      | PASS    |
|            |         |                | 52Tone  | RU37     | 9.76         | ≤20.48      | PASS    |
|            |         |                | 106Tone | RU53     | 10.33        | ≤20.48      | PASS    |
|            |         |                | 242Tone | RU61     | 11.12        | ≤20.48      | PASS    |
|            | Ant2    | 5260           | 26Tone  | RU0      | 7.18         | ≤20.48      | PASS    |
|            |         |                | 52Tone  | RU37     | 9.71         | ≤20.48      | PASS    |
|            |         |                | 106Tone | RU53     | 10.73        | ≤20.48      | PASS    |
|            |         |                | 242Tone | RU61     | 11.76        | ≤20.48      | PASS    |
|            | Ant3    | 5260           | 26Tone  | RU0      | 7.51         | ≤20.48      | PASS    |
|            |         |                | 52Tone  | RU37     | 9.92         | ≤20.48      | PASS    |
|            |         |                | 106Tone | RU53     | 10.55        | ≤20.48      | PASS    |
|            |         |                | 242Tone | RU61     | 11.13        | ≤20.48      | PASS    |
|            | Ant4    | 5260           | 26Tone  | RU0      | 7.14         | ≤20.48      | PASS    |
|            |         |                | 52Tone  | RU37     | 9.01         | ≤20.48      | PASS    |
|            |         |                | 106Tone | RU53     | 10.27        | ≤20.48      | PASS    |
|            |         |                | 242Tone | RU61     | 11.79        | ≤20.48      | PASS    |
|            | total   | 5260           | 26Tone  | RU0      | 13.29        | ≤20.48      | PASS    |
|            |         |                | 52Tone  | RU37     | 15.63        | ≤20.48      | PASS    |
|            |         |                | 106Tone | RU53     | 16.49        | ≤20.48      | PASS    |
|            |         |                | 242Tone | RU61     | 17.48        | ≤20.48      | PASS    |
|            | Ant1    | 5280           | 26Tone  | RU0      | 7.07         | ≤20.48      | PASS    |
|            |         |                | 52Tone  | RU37     | 9.86         | ≤20.48      | PASS    |
|            |         |                | 106Tone | RU53     | 10.68        | ≤20.48      | PASS    |
|            |         |                | 242Tone | RU61     | 11.51        | ≤20.48      | PASS    |
|            | Ant2    | 5280           | 26Tone  | RU0      | 7.52         | ≤20.48      | PASS    |
|            |         |                | 52Tone  | RU37     | 9.85         | ≤20.48      | PASS    |
|            |         |                | 106Tone | RU53     | 10.83        | ≤20.48      | PASS    |
|            |         |                | 242Tone | RU61     | 11.20        | ≤20.48      | PASS    |
|            | Ant3    | 5280           | 26Tone  | RU0      | 7.35         | ≤20.48      | PASS    |
|            |         |                | 52Tone  | RU37     | 9.92         | ≤20.48      | PASS    |
|            |         |                | 106Tone | RU53     | 10.56        | ≤20.48      | PASS    |
|            |         |                | 242Tone | RU61     | 11.30        | ≤20.48      | PASS    |
|            | Ant4    | 5280           | 26Tone  | RU0      | 7.20         | ≤20.48      | PASS    |
|            |         |                | 52Tone  | RU37     | 10.40        | ≤20.48      | PASS    |
|            |         |                | 106Tone | RU53     | 10.90        | ≤20.48      | PASS    |
|            |         |                | 242Tone | RU61     | 11.44        | ≤20.48      | PASS    |
|            | total   | 5280           | 26Tone  | RU0      | 13.31        | ≤20.48      | PASS    |
|            |         |                | 52Tone  | RU37     | 16.03        | ≤20.48      | PASS    |
|            |         |                | 106Tone | RU53     | 16.77        | ≤20.48      | PASS    |
|            |         |                | 242Tone | RU61     | 17.38        | ≤20.48      | PASS    |
|            | Ant1    | 5320           | 26Tone  | RU0      | 7.75         | ≤20.48      | PASS    |
|            |         |                | 52Tone  | RU37     | 9.77         | ≤20.48      | PASS    |
|            |         |                | 106Tone | RU53     | 10.63        | ≤20.48      | PASS    |
|            |         |                | 242Tone | RU61     | 11.66        | ≤20.48      | PASS    |
|            | Ant2    | 5320           | 26Tone  | RU0      | 7.26         | ≤20.48      | PASS    |
|            |         |                | 52Tone  | RU37     | 9.97         | ≤20.48      | PASS    |
|            |         |                | 106Tone | RU53     | 10.50        | ≤20.48      | PASS    |
|            |         |                | 242Tone | RU61     | 11.04        | ≤20.48      | PASS    |
|            | Ant3    | 5320           | 26Tone  | RU0      | 7.52         | ≤20.48      | PASS    |
|            |         |                | 52Tone  | RU37     | 9.83         | ≤20.48      | PASS    |
|            |         |                | 106Tone | RU53     | 10.74        | ≤20.48      | PASS    |
|            |         |                | 242Tone | RU61     | 11.17        | ≤20.48      | PASS    |
| Ant4       | 5320    | 26Tone         | RU0     | 7.53     | ≤20.48       | PASS        |         |
|            |         | 52Tone         | RU37    | 10.13    | ≤20.48       | PASS        |         |
|            |         | 106Tone        | RU53    | 10.64    | ≤20.48       | PASS        |         |
|            |         | 242Tone        | RU61    | 11.93    | ≤20.48       | PASS        |         |
| total      | 5320    | 26Tone         | RU0     | 13.54    | ≤20.48       | PASS        |         |
|            |         | 52Tone         | RU37    | 15.95    | ≤20.48       | PASS        |         |

|  |       |              |         |      |       |        |      |
|--|-------|--------------|---------|------|-------|--------|------|
|  | Ant1  | 5500         | 106Tone | RU53 | 16.65 | ≤20.48 | PASS |
|  |       |              | 242Tone | RU61 | 17.49 | ≤20.48 | PASS |
|  |       |              | 26Tone  | RU0  | 7.11  | ≤20.48 | PASS |
|  |       |              | 52Tone  | RU37 | 10.07 | ≤20.48 | PASS |
|  | Ant2  | 5500         | 106Tone | RU53 | 10.73 | ≤20.48 | PASS |
|  |       |              | 242Tone | RU61 | 11.78 | ≤20.48 | PASS |
|  |       |              | 26Tone  | RU0  | 7.24  | ≤20.48 | PASS |
|  |       |              | 52Tone  | RU37 | 9.63  | ≤20.48 | PASS |
|  | Ant3  | 5500         | 106Tone | RU53 | 10.39 | ≤20.48 | PASS |
|  |       |              | 242Tone | RU61 | 11.54 | ≤20.48 | PASS |
|  |       |              | 26Tone  | RU0  | 7.78  | ≤20.48 | PASS |
|  |       |              | 52Tone  | RU37 | 9.37  | ≤20.48 | PASS |
|  | Ant4  | 5500         | 106Tone | RU53 | 10.24 | ≤20.48 | PASS |
|  |       |              | 242Tone | RU61 | 11.09 | ≤20.48 | PASS |
|  |       |              | 26Tone  | RU0  | 7.11  | ≤20.48 | PASS |
|  |       |              | 52Tone  | RU37 | 9.88  | ≤20.48 | PASS |
|  | total | 5500         | 106Tone | RU53 | 10.55 | ≤20.48 | PASS |
|  |       |              | 242Tone | RU61 | 11.33 | ≤20.48 | PASS |
|  |       |              | 26Tone  | RU0  | 13.34 | ≤20.48 | PASS |
|  |       |              | 52Tone  | RU37 | 15.77 | ≤20.48 | PASS |
|  | Ant1  | 5580         | 106Tone | RU53 | 16.50 | ≤20.48 | PASS |
|  |       |              | 242Tone | RU61 | 17.46 | ≤20.48 | PASS |
|  |       |              | 26Tone  | RU0  | 7.95  | ≤20.48 | PASS |
|  |       |              | 52Tone  | RU37 | 9.56  | ≤20.48 | PASS |
|  | Ant2  | 5580         | 106Tone | RU53 | 11.06 | ≤20.48 | PASS |
|  |       |              | 242Tone | RU61 | 11.16 | ≤20.48 | PASS |
|  |       |              | 26Tone  | RU0  | 7.36  | ≤20.48 | PASS |
|  |       |              | 52Tone  | RU37 | 10.48 | ≤20.48 | PASS |
|  | Ant3  | 5580         | 106Tone | RU53 | 10.52 | ≤20.48 | PASS |
|  |       |              | 242Tone | RU61 | 11.22 | ≤20.48 | PASS |
|  |       |              | 26Tone  | RU0  | 7.89  | ≤20.48 | PASS |
|  |       |              | 52Tone  | RU37 | 10.44 | ≤20.48 | PASS |
|  | Ant4  | 5580         | 106Tone | RU53 | 10.97 | ≤20.48 | PASS |
|  |       |              | 242Tone | RU61 | 11.67 | ≤20.48 | PASS |
|  |       |              | 26Tone  | RU0  | 7.18  | ≤20.48 | PASS |
|  |       |              | 52Tone  | RU37 | 9.13  | ≤20.48 | PASS |
|  | total | 5580         | 106Tone | RU53 | 10.90 | ≤20.48 | PASS |
|  |       |              | 242Tone | RU61 | 11.52 | ≤20.48 | PASS |
|  |       |              | 26Tone  | RU0  | 13.63 | ≤20.48 | PASS |
|  |       |              | 52Tone  | RU37 | 15.96 | ≤20.48 | PASS |
|  | Ant1  | 5720_UNII-2C | 106Tone | RU53 | 16.89 | ≤20.48 | PASS |
|  |       |              | 242Tone | RU61 | 17.42 | ≤20.48 | PASS |
|  |       |              | 26Tone  | RU0  | 7.23  | ≤19.31 | PASS |
|  |       |              | 52Tone  | RU40 | 9.43  | ≤19.31 | PASS |
|  | Ant2  | 5720_UNII-2C | 106Tone | RU54 | 10.06 | ≤19.31 | PASS |
|  |       |              | 242Tone | RU61 | 11.15 | ≤19.31 | PASS |
|  |       |              | 26Tone  | RU8  | 7.12  | ≤19.31 | PASS |
|  |       |              | 52Tone  | RU40 | 9.09  | ≤19.31 | PASS |
|  | Ant3  | 5720_UNII-2C | 106Tone | RU54 | 10.15 | ≤19.31 | PASS |
|  |       |              | 242Tone | RU61 | 11.04 | ≤19.31 | PASS |
|  |       |              | 26Tone  | RU8  | 6.94  | ≤19.31 | PASS |
|  |       |              | 52Tone  | RU40 | 9.37  | ≤19.31 | PASS |
|  | Ant4  | 5720_UNII-2C | 106Tone | RU54 | 10.40 | ≤19.31 | PASS |
|  |       |              | 242Tone | RU61 | 11.05 | ≤19.31 | PASS |
|  |       |              | 26Tone  | RU8  | 7.57  | ≤19.31 | PASS |
|  |       |              | 52Tone  | RU40 | 8.92  | ≤19.31 | PASS |
|  | total | 5720_UNII-2C | 106Tone | RU54 | 10.64 | ≤19.31 | PASS |
|  |       |              | 242Tone | RU61 | 11.22 | ≤19.31 | PASS |
|  |       |              | 26Tone  | RU8  | 13.24 | ≤19.31 | PASS |
|  |       |              | 52Tone  | RU40 | 15.23 | ≤19.31 | PASS |
|  |       |              | 106Tone | RU54 | 16.34 | ≤19.31 | PASS |

|       |             |         |      |       |        |      |
|-------|-------------|---------|------|-------|--------|------|
| Ant1  | 5720_UNII-3 | 242Tone | RU61 | 17.14 | ≤19.31 | PASS |
|       |             | 26Tone  | RU8  | 4.10  | ≤26.50 | PASS |
|       |             | 52Tone  | RU40 | 5.00  | ≤26.50 | PASS |
|       |             | 106Tone | RU54 | 5.30  | ≤26.50 | PASS |
| Ant2  | 5720_UNII-3 | 242Tone | RU61 | 0.76  | ≤26.50 | PASS |
|       |             | 26Tone  | RU8  | 4.07  | ≤26.50 | PASS |
|       |             | 52Tone  | RU40 | 5.18  | ≤26.50 | PASS |
|       |             | 106Tone | RU54 | 5.80  | ≤26.50 | PASS |
| Ant3  | 5720_UNII-3 | 242Tone | RU61 | 1.81  | ≤26.50 | PASS |
|       |             | 26Tone  | RU8  | 3.62  | ≤26.50 | PASS |
|       |             | 52Tone  | RU40 | 5.57  | ≤26.50 | PASS |
|       |             | 106Tone | RU54 | 5.43  | ≤26.50 | PASS |
| Ant4  | 5720_UNII-3 | 242Tone | RU61 | 3.08  | ≤26.50 | PASS |
|       |             | 26Tone  | RU8  | 4.87  | ≤26.50 | PASS |
|       |             | 52Tone  | RU40 | 6.54  | ≤26.50 | PASS |
|       |             | 106Tone | RU54 | 6.36  | ≤26.50 | PASS |
| total | 5720_UNII-3 | 242Tone | RU61 | 2.17  | ≤26.50 | PASS |
|       |             | 26Tone  | RU8  | 10.21 | ≤26.50 | PASS |
|       |             | 52Tone  | RU40 | 11.64 | ≤26.50 | PASS |
|       |             | 106Tone | RU54 | 11.76 | ≤26.50 | PASS |
| Ant1  | 5745        | 242Tone | RU61 | 8.05  | ≤26.50 | PASS |
|       |             | 26Tone  | RU0  | 17.15 | ≤26.50 | PASS |
|       |             | 52Tone  | RU37 | 17.67 | ≤26.50 | PASS |
|       |             | 106Tone | RU53 | 17.93 | ≤26.50 | PASS |
| Ant2  | 5745        | 242Tone | RU61 | 17.38 | ≤26.50 | PASS |
|       |             | 26Tone  | RU0  | 17.18 | ≤26.50 | PASS |
|       |             | 52Tone  | RU37 | 17.84 | ≤26.50 | PASS |
|       |             | 106Tone | RU53 | 17.36 | ≤26.50 | PASS |
| Ant3  | 5745        | 242Tone | RU61 | 17.22 | ≤26.50 | PASS |
|       |             | 26Tone  | RU0  | 17.21 | ≤26.50 | PASS |
|       |             | 52Tone  | RU37 | 17.68 | ≤26.50 | PASS |
|       |             | 106Tone | RU53 | 17.23 | ≤26.50 | PASS |
| Ant4  | 5745        | 242Tone | RU61 | 17.37 | ≤26.50 | PASS |
|       |             | 26Tone  | RU0  | 17.45 | ≤26.50 | PASS |
|       |             | 52Tone  | RU37 | 17.92 | ≤26.50 | PASS |
|       |             | 106Tone | RU53 | 18.65 | ≤26.50 | PASS |
| total | 5745        | 242Tone | RU61 | 18.29 | ≤26.50 | PASS |
|       |             | 26Tone  | RU0  | 23.27 | ≤26.50 | PASS |
|       |             | 52Tone  | RU37 | 23.80 | ≤26.50 | PASS |
|       |             | 106Tone | RU53 | 23.85 | ≤26.50 | PASS |
| Ant1  | 5785        | 242Tone | RU61 | 23.61 | ≤26.50 | PASS |
|       |             | 26Tone  | RU0  | 17.09 | ≤26.50 | PASS |
|       |             | 52Tone  | RU37 | 17.17 | ≤26.50 | PASS |
|       |             | 106Tone | RU53 | 17.01 | ≤26.50 | PASS |
| Ant2  | 5785        | 242Tone | RU61 | 17.55 | ≤26.50 | PASS |
|       |             | 26Tone  | RU0  | 17.37 | ≤26.50 | PASS |
|       |             | 52Tone  | RU37 | 17.02 | ≤26.50 | PASS |
|       |             | 106Tone | RU53 | 17.72 | ≤26.50 | PASS |
| Ant3  | 5785        | 242Tone | RU61 | 17.25 | ≤26.50 | PASS |
|       |             | 26Tone  | RU0  | 17.13 | ≤26.50 | PASS |
|       |             | 52Tone  | RU37 | 16.61 | ≤26.50 | PASS |
|       |             | 106Tone | RU53 | 16.95 | ≤26.50 | PASS |
| Ant4  | 5785        | 242Tone | RU61 | 17.26 | ≤26.50 | PASS |
|       |             | 26Tone  | RU0  | 17.60 | ≤26.50 | PASS |
|       |             | 52Tone  | RU37 | 17.72 | ≤26.50 | PASS |
|       |             | 106Tone | RU53 | 17.46 | ≤26.50 | PASS |
| total | 5785        | 242Tone | RU61 | 18.36 | ≤26.50 | PASS |
|       |             | 26Tone  | RU0  | 23.32 | ≤26.50 | PASS |
|       |             | 52Tone  | RU37 | 23.17 | ≤26.50 | PASS |
|       |             | 106Tone | RU53 | 23.32 | ≤26.50 | PASS |
|       |             | 242Tone | RU61 | 23.65 | ≤26.50 | PASS |

|            |       |        |         |      |        |        |      |
|------------|-------|--------|---------|------|--------|--------|------|
|            | Ant1  | 5825   | 26Tone  | RU0  | 17.21  | ≤26.50 | PASS |
|            |       |        | 52Tone  | RU37 | 17.62  | ≤26.50 | PASS |
|            |       |        | 106Tone | RU53 | 17.17  | ≤26.50 | PASS |
|            |       |        | 242Tone | RU61 | 17.78  | ≤26.50 | PASS |
|            | Ant2  | 5825   | 26Tone  | RU0  | 17.73  | ≤26.50 | PASS |
|            |       |        | 52Tone  | RU37 | 17.19  | ≤26.50 | PASS |
|            |       |        | 106Tone | RU53 | 17.78  | ≤26.50 | PASS |
|            |       |        | 242Tone | RU61 | 17.57  | ≤26.50 | PASS |
|            | Ant3  | 5825   | 26Tone  | RU0  | 17.36  | ≤26.50 | PASS |
|            |       |        | 52Tone  | RU37 | 16.41  | ≤26.50 | PASS |
|            |       |        | 106Tone | RU53 | 17.12  | ≤26.50 | PASS |
|            |       |        | 242Tone | RU61 | 17.38  | ≤26.50 | PASS |
|            | Ant4  | 5825   | 26Tone  | RU0  | 17.25  | ≤26.50 | PASS |
|            |       |        | 52Tone  | RU37 | 16.91  | ≤26.50 | PASS |
|            |       |        | 106Tone | RU53 | 18.79  | ≤26.50 | PASS |
|            |       |        | 242Tone | RU61 | 18.40  | ≤26.50 | PASS |
|            | total | 5825   | 26Tone  | RU0  | 23.41  | ≤26.50 | PASS |
|            |       |        | 52Tone  | RU37 | 23.08  | ≤26.50 | PASS |
|            |       |        | 106Tone | RU53 | 23.79  | ≤26.50 | PASS |
|            |       |        | 242Tone | RU61 | 23.82  | ≤26.50 | PASS |
| 11AX40MIMO | Ant1  | 5270   | 26Tone  | RU0  | 7.78   | ≤20.48 | PASS |
|            |       |        | 52Tone  | RU37 | 9.41   | ≤20.48 | PASS |
|            |       |        | 106Tone | RU53 | 9.93   | ≤20.48 | PASS |
|            |       |        | 242Tone | RU61 | 11.22  | ≤20.48 | PASS |
|            |       |        | 484Tone | RU65 | 11.57  | ≤20.48 | PASS |
|            | Ant2  | 5270   | 26Tone  | RU0  | 7.40   | ≤20.48 | PASS |
|            |       |        | 52Tone  | RU37 | 9.92   | ≤20.48 | PASS |
|            |       |        | 106Tone | RU53 | 9.89   | ≤20.48 | PASS |
|            |       |        | 242Tone | RU61 | 11.17  | ≤20.48 | PASS |
|            |       |        | 484Tone | RU65 | 11.37  | ≤20.48 | PASS |
|            | Ant3  | 5270   | 26Tone  | RU0  | 7.71   | ≤20.48 | PASS |
|            |       |        | 52Tone  | RU37 | 9.24   | ≤20.48 | PASS |
|            |       |        | 106Tone | RU53 | 9.83   | ≤20.48 | PASS |
|            |       |        | 242Tone | RU61 | 11.09  | ≤20.48 | PASS |
|            |       |        | 484Tone | RU65 | 11.39  | ≤20.48 | PASS |
|            | Ant4  | 5270   | 26Tone  | RU0  | 7.01   | ≤20.48 | PASS |
|            |       |        | 52Tone  | RU37 | 9.22   | ≤20.48 | PASS |
|            |       |        | 106Tone | RU53 | 10.24  | ≤20.48 | PASS |
|            |       |        | 242Tone | RU61 | 11.13  | ≤20.48 | PASS |
|            |       |        | 484Tone | RU65 | 11.40  | ≤20.48 | PASS |
|            | total | 5270   | 26Tone  | RU0  | 13.51  | ≤20.48 | PASS |
|            |       |        | 52Tone  | RU37 | 15.48  | ≤20.48 | PASS |
|            |       |        | 106Tone | RU53 | 16.00  | ≤20.48 | PASS |
|            |       |        | 242Tone | RU61 | 17.17  | ≤20.48 | PASS |
|            |       |        | 484Tone | RU65 | 17.45  | ≤20.48 | PASS |
|            | Ant1  | 5310   | 26Tone  | RU0  | 7.01   | ≤20.48 | PASS |
|            |       |        | 52Tone  | RU37 | 9.24   | ≤20.48 | PASS |
|            |       |        | 106Tone | RU53 | 10.57  | ≤20.48 | PASS |
|            |       |        | 242Tone | RU61 | 11.11  | ≤20.48 | PASS |
|            |       |        | 484Tone | RU65 | 11.17  | ≤20.48 | PASS |
|            | Ant2  | 5310   | 26Tone  | RU0  | 7.42   | ≤20.48 | PASS |
|            |       |        | 52Tone  | RU37 | 9.29   | ≤20.48 | PASS |
|            |       |        | 106Tone | RU53 | 10.71  | ≤20.48 | PASS |
|            |       |        | 242Tone | RU61 | 11.32  | ≤20.48 | PASS |
|            |       |        | 484Tone | RU65 | 11.21  | ≤20.48 | PASS |
|            | Ant3  | 5310   | 26Tone  | RU0  | 7.48   | ≤20.48 | PASS |
|            |       |        | 52Tone  | RU37 | 9.51   | ≤20.48 | PASS |
|            |       |        | 106Tone | RU53 | 10.82  | ≤20.48 | PASS |
|            |       |        | 242Tone | RU61 | 11.01  | ≤20.48 | PASS |
|            |       |        | 484Tone | RU65 | 11.32  | ≤20.48 | PASS |
| Ant4       | 5310  | 26Tone | RU0     | 8.00 | ≤20.48 | PASS   |      |

|  |       |              |         |      |       |        |      |
|--|-------|--------------|---------|------|-------|--------|------|
|  |       |              | 52Tone  | RU37 | 9.39  | ≤20.48 | PASS |
|  |       |              | 106Tone | RU53 | 10.61 | ≤20.48 | PASS |
|  |       |              | 242Tone | RU61 | 11.09 | ≤20.48 | PASS |
|  |       |              | 484Tone | RU65 | 11.18 | ≤20.48 | PASS |
|  | total | 5310         | 26Tone  | RU0  | 13.51 | ≤20.48 | PASS |
|  |       |              | 52Tone  | RU37 | 15.38 | ≤20.48 | PASS |
|  |       |              | 106Tone | RU53 | 16.70 | ≤20.48 | PASS |
|  |       |              | 242Tone | RU61 | 17.15 | ≤20.48 | PASS |
|  |       |              | 484Tone | RU65 | 17.24 | ≤20.48 | PASS |
|  | Ant1  | 5510         | 26Tone  | RU0  | 7.82  | ≤20.48 | PASS |
|  |       |              | 52Tone  | RU37 | 9.38  | ≤20.48 | PASS |
|  |       |              | 106Tone | RU53 | 10.09 | ≤20.48 | PASS |
|  |       |              | 242Tone | RU61 | 10.28 | ≤20.48 | PASS |
|  |       |              | 484Tone | RU65 | 11.21 | ≤20.48 | PASS |
|  | Ant2  | 5510         | 26Tone  | RU0  | 7.71  | ≤20.48 | PASS |
|  |       |              | 52Tone  | RU37 | 9.41  | ≤20.48 | PASS |
|  |       |              | 106Tone | RU53 | 11.06 | ≤20.48 | PASS |
|  |       |              | 242Tone | RU61 | 10.23 | ≤20.48 | PASS |
|  |       |              | 484Tone | RU65 | 11.04 | ≤20.48 | PASS |
|  | Ant3  | 5510         | 26Tone  | RU0  | 7.89  | ≤20.48 | PASS |
|  |       |              | 52Tone  | RU37 | 9.07  | ≤20.48 | PASS |
|  |       |              | 106Tone | RU53 | 10.12 | ≤20.48 | PASS |
|  |       |              | 242Tone | RU61 | 11.00 | ≤20.48 | PASS |
|  |       |              | 484Tone | RU65 | 11.16 | ≤20.48 | PASS |
|  | Ant4  | 5510         | 26Tone  | RU0  | 7.18  | ≤20.48 | PASS |
|  |       |              | 52Tone  | RU37 | 9.33  | ≤20.48 | PASS |
|  |       |              | 106Tone | RU53 | 10.29 | ≤20.48 | PASS |
|  |       |              | 242Tone | RU61 | 11.05 | ≤20.48 | PASS |
|  |       |              | 484Tone | RU65 | 11.01 | ≤20.48 | PASS |
|  | total | 5510         | 26Tone  | RU0  | 13.68 | ≤20.48 | PASS |
|  |       |              | 52Tone  | RU37 | 15.32 | ≤20.48 | PASS |
|  |       |              | 106Tone | RU53 | 16.43 | ≤20.48 | PASS |
|  |       |              | 242Tone | RU61 | 16.68 | ≤20.48 | PASS |
|  |       |              | 484Tone | RU65 | 17.13 | ≤20.48 | PASS |
|  | Ant1  | 5550         | 26Tone  | RU0  | 7.48  | ≤20.48 | PASS |
|  |       |              | 52Tone  | RU37 | 9.59  | ≤20.48 | PASS |
|  |       |              | 106Tone | RU53 | 10.24 | ≤20.48 | PASS |
|  |       |              | 242Tone | RU61 | 11.24 | ≤20.48 | PASS |
|  |       |              | 484Tone | RU65 | 11.09 | ≤20.48 | PASS |
|  | Ant2  | 5550         | 26Tone  | RU0  | 7.23  | ≤20.48 | PASS |
|  |       |              | 52Tone  | RU37 | 10.39 | ≤20.48 | PASS |
|  |       |              | 106Tone | RU53 | 10.42 | ≤20.48 | PASS |
|  |       |              | 242Tone | RU61 | 11.50 | ≤20.48 | PASS |
|  |       |              | 484Tone | RU65 | 11.48 | ≤20.48 | PASS |
|  | Ant3  | 5550         | 26Tone  | RU0  | 7.57  | ≤20.48 | PASS |
|  |       |              | 52Tone  | RU37 | 9.31  | ≤20.48 | PASS |
|  |       |              | 106Tone | RU53 | 10.30 | ≤20.48 | PASS |
|  |       |              | 242Tone | RU61 | 11.00 | ≤20.48 | PASS |
|  |       |              | 484Tone | RU65 | 11.41 | ≤20.48 | PASS |
|  | Ant4  | 5550         | 26Tone  | RU0  | 7.11  | ≤20.48 | PASS |
|  |       |              | 52Tone  | RU37 | 9.38  | ≤20.48 | PASS |
|  |       |              | 106Tone | RU53 | 10.25 | ≤20.48 | PASS |
|  |       |              | 242Tone | RU61 | 11.56 | ≤20.48 | PASS |
|  |       |              | 484Tone | RU65 | 11.30 | ≤20.48 | PASS |
|  | total | 5550         | 26Tone  | RU0  | 13.37 | ≤20.48 | PASS |
|  |       |              | 52Tone  | RU37 | 15.71 | ≤20.48 | PASS |
|  |       |              | 106Tone | RU53 | 16.32 | ≤20.48 | PASS |
|  |       |              | 242Tone | RU61 | 17.35 | ≤20.48 | PASS |
|  |       |              | 484Tone | RU65 | 17.34 | ≤20.48 | PASS |
|  | Ant1  | 5710_UNII-2C | 26Tone  | RU17 | 7.57  | ≤20.48 | PASS |
|  |       |              | 52Tone  | RU44 | 9.75  | ≤20.48 | PASS |

|  |       |              |         |         |       |        |        |      |
|--|-------|--------------|---------|---------|-------|--------|--------|------|
|  |       |              | 106Tone | RU56    | 10.44 | ≤20.48 | PASS   |      |
|  |       |              | 242Tone | RU62    | 11.20 | ≤20.48 | PASS   |      |
|  |       |              | 484Tone | RU65    | 11.36 | ≤20.48 | PASS   |      |
|  | Ant2  | 5710_UNII-2C | 26Tone  | RU17    | 7.31  | ≤20.48 | PASS   |      |
|  |       |              |         | 52Tone  | RU44  | 9.59   | ≤20.48 | PASS |
|  |       |              |         | 106Tone | RU56  | 9.95   | ≤20.48 | PASS |
|  |       |              |         | 242Tone | RU62  | 11.33  | ≤20.48 | PASS |
|  |       |              | 484Tone | RU65    | 11.24 | ≤20.48 | PASS   |      |
|  | Ant3  | 5710_UNII-2C | 26Tone  | RU17    | 7.12  | ≤20.48 | PASS   |      |
|  |       |              |         | 52Tone  | RU44  | 9.85   | ≤20.48 | PASS |
|  |       |              |         | 106Tone | RU56  | 10.02  | ≤20.48 | PASS |
|  |       |              |         | 242Tone | RU62  | 10.85  | ≤20.48 | PASS |
|  |       |              | 484Tone | RU65    | 11.18 | ≤20.48 | PASS   |      |
|  | Ant4  | 5710_UNII-2C | 26Tone  | RU17    | 7.20  | ≤20.48 | PASS   |      |
|  |       |              |         | 52Tone  | RU44  | 9.12   | ≤20.48 | PASS |
|  |       |              |         | 106Tone | RU56  | 10.22  | ≤20.48 | PASS |
|  |       |              |         | 242Tone | RU62  | 10.56  | ≤20.48 | PASS |
|  |       |              | 484Tone | RU65    | 11.46 | ≤20.48 | PASS   |      |
|  | total | 5710_UNII-2C | 26Tone  | RU17    | 13.32 | ≤20.48 | PASS   |      |
|  |       |              |         | 52Tone  | RU44  | 15.61  | ≤20.48 | PASS |
|  |       |              |         | 106Tone | RU56  | 16.18  | ≤20.48 | PASS |
|  |       |              |         | 242Tone | RU62  | 17.02  | ≤20.48 | PASS |
|  |       |              | 484Tone | RU65    | 17.33 | ≤20.48 | PASS   |      |
|  | Ant1  | 5710_UNII-3  | 26Tone  | RU17    | 2.38  | ≤26.50 | PASS   |      |
|  |       |              |         | 52Tone  | RU44  | 4.36   | ≤26.50 | PASS |
|  |       |              |         | 106Tone | RU56  | 4.06   | ≤26.50 | PASS |
|  |       |              |         | 242Tone | RU62  | 1.16   | ≤26.50 | PASS |
|  |       |              | 484Tone | RU65    | 1.93  | ≤26.50 | PASS   |      |
|  | Ant2  | 5710_UNII-3  | 26Tone  | RU17    | 3.30  | ≤26.50 | PASS   |      |
|  |       |              |         | 52Tone  | RU44  | 6.63   | ≤26.50 | PASS |
|  |       |              |         | 106Tone | RU56  | 5.08   | ≤26.50 | PASS |
|  |       |              |         | 242Tone | RU62  | 1.88   | ≤26.50 | PASS |
|  |       |              | 484Tone | RU65    | 1.94  | ≤26.50 | PASS   |      |
|  | Ant3  | 5710_UNII-3  | 26Tone  | RU17    | 4.97  | ≤26.50 | PASS   |      |
|  |       |              |         | 52Tone  | RU44  | 6.88   | ≤26.50 | PASS |
|  |       |              |         | 106Tone | RU56  | 4.96   | ≤26.50 | PASS |
|  |       |              |         | 242Tone | RU62  | 0.37   | ≤26.50 | PASS |
|  |       |              | 484Tone | RU65    | 1.21  | ≤26.50 | PASS   |      |
|  | Ant4  | 5710_UNII-3  | 26Tone  | RU17    | 3.45  | ≤26.50 | PASS   |      |
|  |       |              |         | 52Tone  | RU44  | 5.78   | ≤26.50 | PASS |
|  |       |              |         | 106Tone | RU56  | 5.38   | ≤26.50 | PASS |
|  |       |              |         | 242Tone | RU62  | 1.75   | ≤26.50 | PASS |
|  |       |              | 484Tone | RU65    | 1.45  | ≤26.50 | PASS   |      |
|  | total | 5710_UNII-3  | 26Tone  | RU17    | 9.65  | ≤26.50 | PASS   |      |
|  |       |              |         | 52Tone  | RU44  | 12.04  | ≤26.50 | PASS |
|  |       |              |         | 106Tone | RU56  | 10.92  | ≤26.50 | PASS |
|  |       |              |         | 242Tone | RU62  | 7.35   | ≤26.50 | PASS |
|  |       |              | 484Tone | RU65    | 7.66  | ≤26.50 | PASS   |      |
|  | Ant1  | 5755         | 26Tone  | RU0     | 15.84 | ≤26.50 | PASS   |      |
|  |       |              |         | 52Tone  | RU37  | 16.25  | ≤26.50 | PASS |
|  |       |              |         | 106Tone | RU53  | 15.12  | ≤26.50 | PASS |
|  |       |              |         | 242Tone | RU61  | 16.73  | ≤26.50 | PASS |
|  |       |              | 484Tone | RU65    | 16.28 | ≤26.50 | PASS   |      |
|  | Ant2  | 5755         | 26Tone  | RU0     | 15.89 | ≤26.50 | PASS   |      |
|  |       |              |         | 52Tone  | RU37  | 16.47  | ≤26.50 | PASS |
|  |       |              |         | 106Tone | RU53  | 15.35  | ≤26.50 | PASS |
|  |       |              |         | 242Tone | RU61  | 16.23  | ≤26.50 | PASS |
|  |       |              | 484Tone | RU65    | 16.31 | ≤26.50 | PASS   |      |
|  | Ant3  | 5755         | 26Tone  | RU0     | 16.28 | ≤26.50 | PASS   |      |
|  |       |              |         | 52Tone  | RU37  | 16.00  | ≤26.50 | PASS |
|  |       |              |         | 106Tone | RU53  | 15.31  | ≤26.50 | PASS |

|            |       |         |         |       |        |        |      |
|------------|-------|---------|---------|-------|--------|--------|------|
|            | Ant4  | 5755    | 242Tone | RU61  | 16.12  | ≤26.50 | PASS |
|            |       |         | 484Tone | RU65  | 16.25  | ≤26.50 | PASS |
|            |       |         | 26Tone  | RU0   | 15.93  | ≤26.50 | PASS |
|            |       |         | 52Tone  | RU37  | 16.07  | ≤26.50 | PASS |
|            |       |         | 106Tone | RU53  | 15.92  | ≤26.50 | PASS |
|            |       |         | 242Tone | RU61  | 16.64  | ≤26.50 | PASS |
|            | total | 5755    | 484Tone | RU65  | 16.89  | ≤26.50 | PASS |
|            |       |         | 26Tone  | RU0   | 22.01  | ≤26.50 | PASS |
|            |       |         | 52Tone  | RU37  | 22.22  | ≤26.50 | PASS |
|            |       |         | 106Tone | RU53  | 21.46  | ≤26.50 | PASS |
|            |       |         | 242Tone | RU61  | 22.46  | ≤26.50 | PASS |
|            | Ant1  | 5795    | 484Tone | RU65  | 22.46  | ≤26.50 | PASS |
|            |       |         | 26Tone  | RU0   | 16.11  | ≤26.50 | PASS |
|            |       |         | 52Tone  | RU37  | 17.76  | ≤26.50 | PASS |
|            |       |         | 106Tone | RU53  | 17.15  | ≤26.50 | PASS |
|            |       |         | 242Tone | RU61  | 16.87  | ≤26.50 | PASS |
|            | Ant2  | 5795    | 484Tone | RU65  | 17.04  | ≤26.50 | PASS |
|            |       |         | 26Tone  | RU0   | 16.23  | ≤26.50 | PASS |
|            |       |         | 52Tone  | RU37  | 16.23  | ≤26.50 | PASS |
|            |       |         | 106Tone | RU53  | 16.49  | ≤26.50 | PASS |
|            |       |         | 242Tone | RU61  | 16.28  | ≤26.50 | PASS |
|            | Ant3  | 5795    | 484Tone | RU65  | 16.92  | ≤26.50 | PASS |
|            |       |         | 26Tone  | RU0   | 16.66  | ≤26.50 | PASS |
|            |       |         | 52Tone  | RU37  | 17.10  | ≤26.50 | PASS |
|            |       |         | 106Tone | RU53  | 17.01  | ≤26.50 | PASS |
|            |       |         | 242Tone | RU61  | 16.87  | ≤26.50 | PASS |
|            | Ant4  | 5795    | 484Tone | RU65  | 17.27  | ≤26.50 | PASS |
|            |       |         | 26Tone  | RU0   | 16.04  | ≤26.50 | PASS |
| 52Tone     |       |         | RU37    | 16.60 | ≤26.50 | PASS   |      |
| 106Tone    |       |         | RU53    | 16.38 | ≤26.50 | PASS   |      |
| 242Tone    |       |         | RU61    | 16.57 | ≤26.50 | PASS   |      |
| total      | 5795  | 484Tone | RU65    | 16.98 | ≤26.50 | PASS   |      |
|            |       | 26Tone  | RU0     | 22.29 | ≤26.50 | PASS   |      |
|            |       | 52Tone  | RU37    | 22.98 | ≤26.50 | PASS   |      |
|            |       | 106Tone | RU53    | 22.79 | ≤26.50 | PASS   |      |
|            |       | 242Tone | RU61    | 22.67 | ≤26.50 | PASS   |      |
| 11AX80MIMO | Ant1  | 5290    | 484Tone | RU65  | 23.08  | ≤26.50 | PASS |
|            |       |         | 996Tone | RU67  | 11.53  | ≤20.48 | PASS |
|            |       |         | 26Tone  | RU0   | 7.17   | ≤20.48 | PASS |
|            |       |         | 52Tone  | RU37  | 9.16   | ≤20.48 | PASS |
|            |       |         | 106Tone | RU53  | 10.96  | ≤20.48 | PASS |
|            |       |         | 242Tone | RU61  | 11.12  | ≤20.48 | PASS |
|            | Ant2  | 5290    | 484Tone | RU65  | 11.62  | ≤20.48 | PASS |
|            |       |         | 996Tone | RU67  | 11.47  | ≤20.48 | PASS |
|            |       |         | 26Tone  | RU0   | 7.12   | ≤20.48 | PASS |
|            |       |         | 52Tone  | RU37  | 9.53   | ≤20.48 | PASS |
|            |       |         | 106Tone | RU53  | 10.83  | ≤20.48 | PASS |
|            |       |         | 242Tone | RU61  | 11.18  | ≤20.48 | PASS |
|            | Ant3  | 5290    | 484Tone | RU65  | 11.64  | ≤20.48 | PASS |
|            |       |         | 996Tone | RU67  | 11.07  | ≤20.48 | PASS |
|            |       |         | 26Tone  | RU0   | 7.22   | ≤20.48 | PASS |
|            |       |         | 52Tone  | RU37  | 9.48   | ≤20.48 | PASS |
|            |       |         | 106Tone | RU53  | 11.09  | ≤20.48 | PASS |
|            |       |         | 242Tone | RU61  | 11.31  | ≤20.48 | PASS |
|            | Ant4  | 5290    | 484Tone | RU65  | 11.34  | ≤20.48 | PASS |
|            |       |         | 996Tone | RU67  | 11.25  | ≤20.48 | PASS |
| 26Tone     |       |         | RU0     | 7.61  | ≤20.48 | PASS   |      |
| 52Tone     |       |         | RU37    | 9.21  | ≤20.48 | PASS   |      |
| 106Tone    |       |         | RU53    | 10.97 | ≤20.48 | PASS   |      |
| 242Tone    |       |         | RU61    | 11.25 | ≤20.48 | PASS   |      |
|            |       |         | 484Tone | RU65  | 11.12  | ≤20.48 | PASS |
|            |       |         | 996Tone | RU67  | 11.20  | ≤20.48 | PASS |

|       |       |         |         |       |        |        |      |
|-------|-------|---------|---------|-------|--------|--------|------|
|       | total | 5290    | 26Tone  | RU0   | 13.30  | ≤20.48 | PASS |
|       |       |         | 52Tone  | RU37  | 15.37  | ≤20.48 | PASS |
|       |       |         | 106Tone | RU53  | 16.98  | ≤20.48 | PASS |
|       |       |         | 242Tone | RU61  | 17.24  | ≤20.48 | PASS |
|       |       |         | 484Tone | RU65  | 17.46  | ≤20.48 | PASS |
|       |       |         | 996Tone | RU67  | 17.34  | ≤20.48 | PASS |
|       | Ant1  | 5530    | 26Tone  | RU0   | 7.20   | ≤20.48 | PASS |
|       |       |         | 52Tone  | RU37  | 9.46   | ≤20.48 | PASS |
|       |       |         | 106Tone | RU53  | 10.71  | ≤20.48 | PASS |
|       |       |         | 242Tone | RU61  | 11.44  | ≤20.48 | PASS |
|       |       |         | 484Tone | RU65  | 11.19  | ≤20.48 | PASS |
|       |       |         | 996Tone | RU67  | 11.24  | ≤20.48 | PASS |
|       | Ant2  | 5530    | 26Tone  | RU0   | 7.43   | ≤20.48 | PASS |
|       |       |         | 52Tone  | RU37  | 9.16   | ≤20.48 | PASS |
|       |       |         | 106Tone | RU53  | 10.55  | ≤20.48 | PASS |
|       |       |         | 242Tone | RU61  | 11.40  | ≤20.48 | PASS |
|       |       |         | 484Tone | RU65  | 11.44  | ≤20.48 | PASS |
|       |       |         | 996Tone | RU67  | 11.36  | ≤20.48 | PASS |
|       | Ant3  | 5530    | 26Tone  | RU0   | 7.29   | ≤20.48 | PASS |
|       |       |         | 52Tone  | RU37  | 9.44   | ≤20.48 | PASS |
|       |       |         | 106Tone | RU53  | 10.29  | ≤20.48 | PASS |
|       |       |         | 242Tone | RU61  | 11.63  | ≤20.48 | PASS |
|       |       |         | 484Tone | RU65  | 11.73  | ≤20.48 | PASS |
|       |       |         | 996Tone | RU67  | 11.26  | ≤20.48 | PASS |
|       | Ant4  | 5530    | 26Tone  | RU0   | 7.41   | ≤20.48 | PASS |
|       |       |         | 52Tone  | RU37  | 9.28   | ≤20.48 | PASS |
|       |       |         | 106Tone | RU53  | 10.64  | ≤20.48 | PASS |
|       |       |         | 242Tone | RU61  | 11.30  | ≤20.48 | PASS |
|       |       |         | 484Tone | RU65  | 11.45  | ≤20.48 | PASS |
|       |       |         | 996Tone | RU67  | 11.50  | ≤20.48 | PASS |
|       | total | 5530    | 26Tone  | RU0   | 13.35  | ≤20.48 | PASS |
|       |       |         | 52Tone  | RU37  | 15.36  | ≤20.48 | PASS |
|       |       |         | 106Tone | RU53  | 16.57  | ≤20.48 | PASS |
|       |       |         | 242Tone | RU61  | 17.46  | ≤20.48 | PASS |
|       |       |         | 484Tone | RU65  | 17.48  | ≤20.48 | PASS |
|       |       |         | 996Tone | RU67  | 17.36  | ≤20.48 | PASS |
|       | Ant1  | 5610    | 26Tone  | RU0   | 7.45   | ≤20.48 | PASS |
|       |       |         | 52Tone  | RU37  | 10.71  | ≤20.48 | PASS |
|       |       |         | 106Tone | RU53  | 10.35  | ≤20.48 | PASS |
|       |       |         | 242Tone | RU61  | 11.30  | ≤20.48 | PASS |
|       |       |         | 484Tone | RU65  | 11.26  | ≤20.48 | PASS |
|       |       |         | 996Tone | RU67  | 11.26  | ≤20.48 | PASS |
|       | Ant2  | 5610    | 26Tone  | RU0   | 7.28   | ≤20.48 | PASS |
|       |       |         | 52Tone  | RU37  | 9.57   | ≤20.48 | PASS |
|       |       |         | 106Tone | RU53  | 10.15  | ≤20.48 | PASS |
|       |       |         | 242Tone | RU61  | 11.83  | ≤20.48 | PASS |
|       |       |         | 484Tone | RU65  | 11.48  | ≤20.48 | PASS |
|       |       |         | 996Tone | RU67  | 11.06  | ≤20.48 | PASS |
| Ant3  | 5610  | 26Tone  | RU0     | 7.62  | ≤20.48 | PASS   |      |
|       |       | 52Tone  | RU37    | 9.60  | ≤20.48 | PASS   |      |
|       |       | 106Tone | RU53    | 10.39 | ≤20.48 | PASS   |      |
|       |       | 242Tone | RU61    | 11.23 | ≤20.48 | PASS   |      |
|       |       | 484Tone | RU65    | 11.36 | ≤20.48 | PASS   |      |
|       |       | 996Tone | RU67    | 11.22 | ≤20.48 | PASS   |      |
| Ant4  | 5610  | 26Tone  | RU0     | 7.38  | ≤20.48 | PASS   |      |
|       |       | 52Tone  | RU37    | 9.75  | ≤20.48 | PASS   |      |
|       |       | 106Tone | RU53    | 10.03 | ≤20.48 | PASS   |      |
|       |       | 242Tone | RU61    | 11.31 | ≤20.48 | PASS   |      |
|       |       | 484Tone | RU65    | 11.54 | ≤20.48 | PASS   |      |
|       |       | 996Tone | RU67    | 11.39 | ≤20.48 | PASS   |      |
| total | 5610  | 26Tone  | RU0     | 13.45 | ≤20.48 | PASS   |      |



|  |       |              |         |      |       |        |      |
|--|-------|--------------|---------|------|-------|--------|------|
|  |       |              | 52Tone  | RU37 | 15.95 | ≤20.48 | PASS |
|  |       |              | 106Tone | RU53 | 16.25 | ≤20.48 | PASS |
|  |       |              | 242Tone | RU61 | 17.44 | ≤20.48 | PASS |
|  |       |              | 484Tone | RU65 | 17.43 | ≤20.48 | PASS |
|  |       |              | 996Tone | RU67 | 17.25 | ≤20.48 | PASS |
|  | Ant1  | 5690_UNII-2C | 26Tone  | RU36 | 6.35  | ≤20.48 | PASS |
|  |       |              | 52Tone  | RU52 | 8.61  | ≤20.48 | PASS |
|  |       |              | 106Tone | RU60 | 10.68 | ≤20.48 | PASS |
|  |       |              | 242Tone | RU64 | 11.44 | ≤20.48 | PASS |
|  |       |              | 484Tone | RU66 | 11.34 | ≤20.48 | PASS |
|  |       |              | 996Tone | RU67 | 11.78 | ≤20.48 | PASS |
|  | Ant2  | 5690_UNII-2C | 26Tone  | RU36 | 6.78  | ≤20.48 | PASS |
|  |       |              | 52Tone  | RU52 | 8.99  | ≤20.48 | PASS |
|  |       |              | 106Tone | RU60 | 10.27 | ≤20.48 | PASS |
|  |       |              | 242Tone | RU64 | 11.41 | ≤20.48 | PASS |
|  |       |              | 484Tone | RU66 | 11.16 | ≤20.48 | PASS |
|  |       |              | 996Tone | RU67 | 11.12 | ≤20.48 | PASS |
|  | Ant3  | 5690_UNII-2C | 26Tone  | RU36 | 6.41  | ≤20.48 | PASS |
|  |       |              | 52Tone  | RU52 | 9.52  | ≤20.48 | PASS |
|  |       |              | 106Tone | RU60 | 10.16 | ≤20.48 | PASS |
|  |       |              | 242Tone | RU64 | 10.21 | ≤20.48 | PASS |
|  |       |              | 484Tone | RU66 | 11.43 | ≤20.48 | PASS |
|  |       |              | 996Tone | RU67 | 10.16 | ≤20.48 | PASS |
|  | Ant4  | 5690_UNII-2C | 26Tone  | RU36 | 6.69  | ≤20.48 | PASS |
|  |       |              | 52Tone  | RU52 | 8.68  | ≤20.48 | PASS |
|  |       |              | 106Tone | RU60 | 9.23  | ≤20.48 | PASS |
|  |       |              | 242Tone | RU64 | 11.19 | ≤20.48 | PASS |
|  |       |              | 484Tone | RU66 | 11.85 | ≤20.48 | PASS |
|  |       |              | 996Tone | RU67 | 11.25 | ≤20.48 | PASS |
|  | total | 5690_UNII-2C | 26Tone  | RU36 | 12.58 | ≤20.48 | PASS |
|  |       |              | 52Tone  | RU52 | 14.99 | ≤20.48 | PASS |
|  |       |              | 106Tone | RU60 | 16.14 | ≤20.48 | PASS |
|  |       |              | 242Tone | RU64 | 17.11 | ≤20.48 | PASS |
|  |       |              | 484Tone | RU66 | 17.47 | ≤20.48 | PASS |
|  |       |              | 996Tone | RU67 | 17.14 | ≤20.48 | PASS |
|  | Ant1  | 5690_UNII-3  | 26Tone  | RU36 | 2.59  | ≤20.48 | PASS |
|  |       |              | 52Tone  | RU52 | 3.84  | ≤20.48 | PASS |
|  |       |              | 106Tone | RU60 | 1.46  | ≤20.48 | PASS |
|  |       |              | 242Tone | RU64 | 2.57  | ≤20.48 | PASS |
|  |       |              | 484Tone | RU66 | -0.20 | ≤20.48 | PASS |
|  |       |              | 996Tone | RU67 | -4.35 | ≤20.48 | PASS |
|  | Ant2  | 5690_UNII-3  | 26Tone  | RU36 | 4.39  | ≤20.48 | PASS |
|  |       |              | 52Tone  | RU52 | 4.63  | ≤20.48 | PASS |
|  |       |              | 106Tone | RU60 | 0.88  | ≤20.48 | PASS |
|  |       |              | 242Tone | RU64 | 3.30  | ≤20.48 | PASS |
|  |       |              | 484Tone | RU66 | -0.11 | ≤20.48 | PASS |
|  |       |              | 996Tone | RU67 | -5.40 | ≤20.48 | PASS |
|  | Ant3  | 5690_UNII-3  | 26Tone  | RU36 | 3.85  | ≤26.50 | PASS |
|  |       |              | 52Tone  | RU52 | 6.49  | ≤26.50 | PASS |
|  |       |              | 106Tone | RU60 | 3.67  | ≤26.50 | PASS |
|  |       |              | 242Tone | RU64 | 4.65  | ≤26.50 | PASS |
|  |       |              | 484Tone | RU66 | 0.55  | ≤26.50 | PASS |
|  |       |              | 996Tone | RU67 | -5.40 | ≤26.50 | PASS |
|  | Ant4  | 5690_UNII-3  | 26Tone  | RU36 | 3.20  | ≤26.50 | PASS |
|  |       |              | 52Tone  | RU52 | 5.17  | ≤26.50 | PASS |
|  |       |              | 106Tone | RU60 | 4.02  | ≤26.50 | PASS |
|  |       |              | 242Tone | RU64 | 3.93  | ≤26.50 | PASS |
|  |       |              | 484Tone | RU66 | 0.93  | ≤26.50 | PASS |
|  |       |              | 996Tone | RU67 | -4.39 | ≤26.50 | PASS |
|  | total | 5690_UNII-3  | 26Tone  | RU36 | 9.58  | ≤26.50 | PASS |
|  |       |              | 52Tone  | RU52 | 11.16 | ≤26.50 | PASS |

|  |       |      |         |         |       |              |              |      |
|--|-------|------|---------|---------|-------|--------------|--------------|------|
|  |       |      | 106Tone | RU60    | 8.74  | $\leq 26.50$ | PASS         |      |
|  |       |      | 242Tone | RU64    | 9.70  | $\leq 26.50$ | PASS         |      |
|  |       |      | 484Tone | RU66    | 6.34  | $\leq 26.50$ | PASS         |      |
|  |       |      | 996Tone | RU67    | 1.17  | $\leq 26.50$ | PASS         |      |
|  | Ant1  | 5775 | 26Tone  | RU0     | 14.34 | $\leq 26.50$ | PASS         |      |
|  |       |      | 52Tone  | RU37    | 14.35 | $\leq 26.50$ | PASS         |      |
|  |       |      | 106Tone | RU53    | 14.28 | $\leq 26.50$ | PASS         |      |
|  |       |      | 242Tone | RU61    | 14.87 | $\leq 26.50$ | PASS         |      |
|  | Ant2  | 5775 | 484Tone | RU65    | 14.16 | $\leq 26.50$ | PASS         |      |
|  |       |      | 996Tone | RU67    | 14.58 | $\leq 26.50$ | PASS         |      |
|  |       |      | 26Tone  | RU0     | 14.08 | $\leq 26.50$ | PASS         |      |
|  |       |      | 52Tone  | RU37    | 14.11 | $\leq 26.50$ | PASS         |      |
|  | Ant3  | 5775 | 106Tone | RU53    | 13.97 | $\leq 26.50$ | PASS         |      |
|  |       |      | 242Tone | RU61    | 14.94 | $\leq 26.50$ | PASS         |      |
|  |       |      | 484Tone | RU65    | 14.31 | $\leq 26.50$ | PASS         |      |
|  |       |      | 996Tone | RU67    | 14.20 | $\leq 26.50$ | PASS         |      |
|  | Ant4  | 5775 | 26Tone  | RU0     | 14.72 | $\leq 26.50$ | PASS         |      |
|  |       |      | 52Tone  | RU37    | 14.82 | $\leq 26.50$ | PASS         |      |
|  |       |      | 106Tone | RU53    | 14.96 | $\leq 26.50$ | PASS         |      |
|  |       |      | 242Tone | RU61    | 15.53 | $\leq 26.50$ | PASS         |      |
|  | total | 5775 | 484Tone | RU65    | 14.54 | $\leq 26.50$ | PASS         |      |
|  |       |      | 996Tone | RU67    | 15.44 | $\leq 26.50$ | PASS         |      |
|  |       |      | 26Tone  | RU0     | 14.21 | $\leq 26.50$ | PASS         |      |
|  |       |      | 52Tone  | RU37    | 14.29 | $\leq 26.50$ | PASS         |      |
|  |       |      |         | 106Tone | RU53  | 13.55        | $\leq 26.50$ | PASS |
|  |       |      |         | 242Tone | RU61  | 14.30        | $\leq 26.50$ | PASS |
|  |       |      |         | 484Tone | RU65  | 14.35        | $\leq 26.50$ | PASS |
|  |       |      |         | 996Tone | RU67  | 15.15        | $\leq 26.50$ | PASS |
|  |       |      | 26Tone  | RU0     | 20.36 | $\leq 26.50$ | PASS         |      |
|  |       |      | 52Tone  | RU37    | 20.42 | $\leq 26.50$ | PASS         |      |
|  |       |      | 106Tone | RU53    | 20.24 | $\leq 26.50$ | PASS         |      |
|  |       |      | 242Tone | RU61    | 20.95 | $\leq 26.50$ | PASS         |      |
|  |       |      | 484Tone | RU65    | 20.36 | $\leq 26.50$ | PASS         |      |
|  |       |      | 996Tone | RU67    | 20.89 | $\leq 26.50$ | PASS         |      |

## Note:

*EUT is an outdoor access point. The maximum antenna gain is 3.5dBi.*

*The maximum gain at elevation angle above 30 degrees measured from the horizon is -2.2dBi, which was provided by manufacturer*

*For 802.11a mode, the device employed cyclic delay diversity (CDD).*

*According to KDB 662911 D01 v02r01, for power measurement on IEEE 802.11 devices:*

*Array Gain = 0 dB (i.e., no array gain) for  $N_{ANT} \leq 4$ ; So Directional gain =  $G_{ANT} + \text{Array Gain} = 3.5\text{dBi} < 6\text{dBi}$*

*For Elevation angle above 30 ° of EIRP: Directional gain =  $G_{ANT} + \text{Array Gain} = -2.2\text{dBi}$*

*For 802.11n/ac/ax mode, the device support beam-forming function.*

*The directional gain =  $G_{ANT} + 10 * \log(4/1) = 9.5\text{dBi} > 6\text{dBi}$ ; So the limit should be reduce  $(9.5-6)\text{dB} = 3.5\text{dB}$*

*For Elevation angle above 30 ° of EIRP: Directional gain =  $G_{ANT} + 10 * \log(4/1) = 3.8\text{dBi}$*

## **FCC §15.407(a) - POWER SPECTRAL DENSITY**

For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

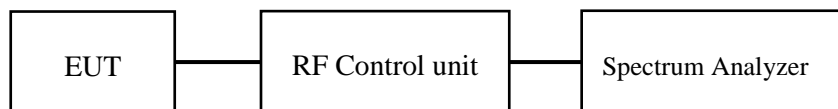
For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or  $11 \text{ dBm} + 10 \log B$ , where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

### **Test Procedure**

For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, “provided that the measured power is integrated over the full reference bandwidth” to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 kHz bandwidth, the following adjustments to the procedures apply:

- a) Set  $\text{RBW} \geq 1/T$ , where T is defined in section II.B.1.a).
- b) Set  $\text{VBW} \geq 3 \text{ RBW}$ .
- c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add  $10 \log(500 \text{ kHz/RBW})$  to the measured result, whereas  $\text{RBW} (< 500 \text{ kHz})$  is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
- d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add  $10 \log(1\text{MHz/RBW})$  to the measured result, whereas  $\text{RBW} (< 1 \text{ MHz})$  is the reduced resolution bandwidth of spectrum analyzer set during measurement.
- e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.



**Test Data****Environmental Conditions**

|                           |            |
|---------------------------|------------|
| <b>Temperature:</b>       | 25.8~29 °C |
| <b>Relative Humidity:</b> | 51~55 %    |
| <b>ATM Pressure:</b>      | 101.0 kPa  |

*The testing was performed by Kei Pei from 2022-04-03 to 2022-07-05.*

*EUT operation mode: Transmitting*

**Test Result: Pass**

*Please refer to the Appendix B.*

**\*\*\*\*\* END OF REPORT \*\*\*\*\***