



## FCC Part 15.407

**RSS-247 Issue 2, Feb 2017; RSS-Gen Issue 5, Mar 2019**

## TEST REPORT

For

**Redpine Signals Inc**

2107 N First Street, Suite 540, San Jose, CA 95131-2019, USA

**FCC ID: XF6-M7DB7**  
**IC: 8407A-M7DB7**

|                 |                                                                                                                                                                                                      |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Report Type     | Original Report                                                                                                                                                                                      |
| Product Name:   | Dual Band 802.11 a/b/g/n, Bluetooth 5.0 SIP Module                                                                                                                                                   |
| Model Name:     | M7DB                                                                                                                                                                                                 |
| Report Number : | RLK200203002-00E                                                                                                                                                                                     |
| Report Date :   | 2020/05/18                                                                                                                                                                                           |
| Reviewed By :   | Zeus Chen <i>Zeus Chen</i>                                                                                                                                                                           |
| Prepared By:    | Bay Area Compliance Laboratories Corp.(Linkou Laboratory)<br>No. 6, Wende 2Rd., Guishan Dist., Taoyuan City 33382, Taiwan (R.O.C.)<br>Tel: +886 (3)3961072; Fax: +886 (3) 3961027<br>www.bacl.com.tw |

**Note:** This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Linkou Laboratory)

## Revision History

| Revision | Report Number    | Issue Date | Description     |
|----------|------------------|------------|-----------------|
| 1.0      | RLK200203002-00E | 2020/05/18 | Original Report |

**TABLE OF CONTENTS**

|           |                                                                                                                            |            |
|-----------|----------------------------------------------------------------------------------------------------------------------------|------------|
| <b>1</b>  | <b>GENERAL INFORMATION .....</b>                                                                                           | <b>5</b>   |
| 1.1       | PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT) .....                                                                   | 5          |
| 1.2       | OPERATION CONDITION OF EUT .....                                                                                           | 7          |
| 1.3       | OBJECTIVE .....                                                                                                            | 7          |
| 1.4       | MEASUREMENT UNCERTAINTY .....                                                                                              | 8          |
| 1.5       | ENVIRONMENTAL CONDITIONS AND TEST DATE .....                                                                               | 8          |
| 1.6       | TEST FACILITY .....                                                                                                        | 8          |
| <b>2</b>  | <b>SYSTEM TEST CONFIGURATION .....</b>                                                                                     | <b>9</b>   |
| 2.1       | DESCRIPTION OF TEST CONFIGURATION .....                                                                                    | 9          |
| 2.2       | SUPPORT EQUIPMENT AND EXTERNAL CABLE LIST .....                                                                            | 12         |
| 2.3       | BLOCK DIAGRAM OF TEST SETUP .....                                                                                          | 13         |
| 2.4       | DUTY CYCLE .....                                                                                                           | 13         |
| <b>3</b>  | <b>SUMMARY OF TEST RESULTS .....</b>                                                                                       | <b>15</b>  |
| <b>4</b>  | <b>FCC §1.1310, §2.1091, §15.407(F) - MAXIMUM PERMISSIBLE EXPOSURE (MPE) .....</b>                                         | <b>16</b>  |
| 4.1       | APPLICABLE STANDARD .....                                                                                                  | 16         |
| 4.2       | RF EXPOSURE EVALUATION RESULT .....                                                                                        | 16         |
| <b>5</b>  | <b>RSS-102 SEC 2.5.2- EXEMPTION LIMITS FOR ROUTINE EVALUATION – RF EXPOSURE EVALUATION .....</b>                           | <b>17</b>  |
| 5.1       | APPLICABLE STANDARD .....                                                                                                  | 17         |
| 5.2       | RF EXPOSURE EVALUATION RESULT .....                                                                                        | 17         |
| <b>6</b>  | <b>FCC §15.203 AND RSS-247 SEC 6.8 – ANTENNA REQUIREMENTS .....</b>                                                        | <b>18</b>  |
| 6.1       | APPLICABLE STANDARD .....                                                                                                  | 18         |
| 6.2       | ANTENNA LIST AND DETAILS .....                                                                                             | 18         |
| <b>7</b>  | <b>FCC §15.207 AND RSS-247 SEC 6.8 – AC LINE CONDUCTED EMISSIONS .....</b>                                                 | <b>19</b>  |
| 7.1       | APPLICABLE STANDARD .....                                                                                                  | 19         |
| 7.2       | EUT SETUP AND TEST PROCEDURE .....                                                                                         | 20         |
| 7.3       | TEST EQUIPMENT LIST AND DETAILS .....                                                                                      | 20         |
| 7.4       | TEST DATA AND TEST PLOT .....                                                                                              | 21         |
| <b>8</b>  | <b>FCC §15.209, §15.205 &amp; §15.407(B), RSS-GEN SEC 8.9, 8.10 AND RSS-247 SEC 6.2 –SPURIOUS UNWANTED EMISSIONS .....</b> | <b>22</b>  |
| 8.1       | APPLICABLE STANDARD .....                                                                                                  | 22         |
| 8.2       | EUT SETUP AND TEST PROCEDURE .....                                                                                         | 25         |
| 8.3       | TEST EQUIPMENT LIST AND DETAILS .....                                                                                      | 26         |
| 8.4       | TEST DATA AND TEST PLOT .....                                                                                              | 27         |
| <b>9</b>  | <b>FCC §15.407(A)(E), RSS-GEN SEC 6.7, RSS-247 SEC 6.2 – EMISSION BANDWIDTH AND OCCUPIED BANDWIDTH .....</b>               | <b>83</b>  |
| 9.1       | APPLICABLE STANDARD .....                                                                                                  | 83         |
| 9.2       | TEST PROCEDURE .....                                                                                                       | 84         |
| 9.3       | TEST EQUIPMENT LIST AND DETAILS .....                                                                                      | 85         |
| 9.4       | TEST DATA AND TEST PLOT .....                                                                                              | 86         |
| <b>10</b> | <b>FCC §15.407(A)(1) AND RSS-247 SEC 6.2 – MAXIMUM OUTPUT POWER .....</b>                                                  | <b>103</b> |
| 10.1      | APPLICABLE STANDARD .....                                                                                                  | 103        |
| 10.2      | TEST PROCEDURE .....                                                                                                       | 105        |
| 10.3      | TEST EQUIPMENT LIST AND DETAILS .....                                                                                      | 105        |
| 10.4      | TEST DATA .....                                                                                                            | 106        |
| <b>11</b> | <b>FCC §15.407(A) AND RSS-247 SEC 6.2 – POWER SPECTRAL DENSITY .....</b>                                                   | <b>110</b> |
| 11.1      | APPLICABLE STANDARD .....                                                                                                  | 110        |
| 11.2      | TEST PROCEDURE .....                                                                                                       | 111        |
| 11.3      | TEST EQUIPMENT LIST AND DETAILS .....                                                                                      | 111        |
| 11.4      | TEST DATA AND TEST PLOT .....                                                                                              | 112        |


**12    RSS-247 SEC 6.4 – ADDITIONAL REQUIREMENTS ..... 148**

    12.1    APPLICABLE STANDARD ..... 148

    12.2    RESULT ..... 149

## 1 General Information

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

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Applicant           | Redpine Signals Inc<br>2107 N First Street, Suite 540, San Jose, CA 95131-2019, USA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Manufacturer        | Redpine Signals Inc<br>2107 N First Street, Suite 540, San Jose, CA 95131-2019, USA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Brand Name          |  REDPINE SIGNALS®<br>DRIVING WIRELESS CONVERGENCE®                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Product (Equipment) | Dual Band 802.11 a/b/g/n, Bluetooth 5.0 SIP Module                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Model Name          | M7DB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| EUT Function        | IEEE 802.11 an(HT20/HT40)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Frequency Range     | UNII-1: 5150 MHz - 5250 MHz<br>UNII-2a: 5250 MHz - 5350 MHz,<br>UNII-2c: 5470 MHz - 5725 MHz<br>UNII-3: 5725 MHz - 5850 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Number of Channels  | <b>For UNII-1:</b><br>IEEE 802.11a/n HT20: 4 Channels<br>IEEE 802.11n HT40: 2 Channels<br><b>For UNII-2a:</b><br>IEEE 802.11a/n HT20: 4 Channels<br>IEEE 802.11n HT40: 2 Channels<br><b>For UNII-2c:</b><br>IEEE 802.11a/n HT20: 11 Channels<br>IEEE 802.11n HT40: 5 Channels<br><b>For UNII-3:</b><br>IEEE 802.11a/n HT20: 5 Channels<br>IEEE 802.11n HT40: 2 Channels                                                                                                                                                                                                                                                                      |
| Output Power        | <Dipole Antenna: TAOGLAS/GW.71.5153><br><b>For UNII-1:</b><br>IEEE 802.11a: 12.78 dBm (0.0190 W)<br>IEEE 802.11n HT20: 13.61 dBm (0.0230 W)<br>IEEE 802.11n HT40: 9.59 dBm (0.0091 W)<br><b>For UNII-2a:</b><br>IEEE 802.11a: 12.31 dBm (0.0170 W)<br>IEEE 802.11n HT20: 12.55 dBm (0.0180 W)<br>IEEE 802.11n HT40: 9.53 dBm (0.0090 W)<br><b>For UNII-2c:</b><br>IEEE 802.11a: 13.18 dBm (0.0208 W)<br>IEEE 802.11n HT20: 13.14 dBm (0.0206 W)<br>IEEE 802.11n HT40: 11.59 dBm (0.0144 W)<br><b>For UNII-3:</b><br>IEEE 802.11a: 13.98 dBm (0.0250 W)<br>IEEE 802.11n HT20: 14.18 dBm (0.0262 W)<br>IEEE 802.11n HT40: 11.82 dBm (0.0152 W) |

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Output Power</p> | <p><b>&lt;Dipole Antenna: Inside WLAN/PRO-IS-299&gt;</b><br/> <b>For UNII-1:</b><br/> IEEE 802.11a: 12.78 dBm (0.0190 W)<br/> IEEE 802.11n HT20: 13.61 dBm (0.0230 W)<br/> IEEE 802.11n HT40: 9.59 dBm (0.0091 W)<br/> <b>For UNII-2a:</b><br/> IEEE 802.11a: 12.31 dBm (0.0170 W)<br/> IEEE 802.11n HT20: 12.55 dBm (0.0180 W)<br/> IEEE 802.11n HT40: 9.53 dBm (0.0090 W)<br/> <b>For UNII-2c:</b><br/> IEEE 802.11a: 13.36 dBm (0.0217 W)<br/> IEEE 802.11n HT20: 13.14 dBm (0.0206 W)<br/> IEEE 802.11n HT40: 11.98 dBm (0.0158 W)<br/> <b>For UNII-3:</b><br/> IEEE 802.11a: 13.98 dBm (0.0250 W)<br/> IEEE 802.11n HT20: 14.18 dBm (0.0262 W)<br/> IEEE 802.11n HT40: 11.82 dBm (0.0152 W)<br/> <b>&lt;PCB Antenna: Redpine Signals/RSIA7&gt;</b><br/> <b>For UNII-1:</b><br/> IEEE 802.11a: 12.78 dBm (0.0190 W)<br/> IEEE 802.11n HT20: 13.61 dBm (0.0230 W)<br/> IEEE 802.11n HT40: 9.59 dBm (0.0091 W)<br/> <b>For UNII-2a:</b><br/> IEEE 802.11a: 12.31 dBm (0.0170 W)<br/> IEEE 802.11n HT20: 12.55 dBm (0.0180 W)<br/> IEEE 802.11n HT40: 9.53 dBm (0.0090 W)<br/> <b>For UNII-2c:</b><br/> IEEE 802.11a: 13.18 dBm (0.0208 W)<br/> IEEE 802.11n HT20: 13.14 dBm (0.0206 W)<br/> IEEE 802.11n HT40: 10.75 dBm (0.0119 W)<br/> <b>For UNII-3:</b><br/> IEEE 802.11a: 13.98 dBm (0.0250 W)<br/> IEEE 802.11n HT20: 14.18 dBm (0.0262 W)<br/> IEEE 802.11n HT40: 11.82 dBm (0.0152 W)<br/> <b>&lt;PIFA Antenna: SMARTEQ/4211613980&gt;</b><br/> <b>For UNII-1:</b><br/> IEEE 802.11a: 12.78 dBm (0.0190 W)<br/> IEEE 802.11n HT20: 13.61 dBm (0.0230 W)<br/> IEEE 802.11n HT40: 9.59 dBm (0.0091 W)<br/> <b>For UNII-2a:</b><br/> IEEE 802.11a: 12.31 dBm (0.0170 W)<br/> IEEE 802.11n HT20: 12.55 dBm (0.0180 W)<br/> IEEE 802.11n HT40: 9.53 dBm (0.0090 W)<br/> <b>For UNII-2c:</b><br/> IEEE 802.11a: 13.29 dBm (0.0213 W)<br/> IEEE 802.11n HT20: 13.18 dBm (0.0208 W)<br/> IEEE 802.11n HT40: 12.56 dBm (0.0180 W)<br/> <b>For UNII-3:</b><br/> IEEE 802.11a: 13.98 dBm (0.0250 W)<br/> IEEE 802.11n HT20: 14.18 dBm (0.0262 W)<br/> IEEE 802.11n HT40: 11.82 dBm (0.0152 W)</p> |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                      |                                                                                                                                                                         |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Modulation Type</b>               | OFDM                                                                                                                                                                    |
| <b>Received Date</b>                 | 2020-02-03                                                                                                                                                              |
| <b>Date of Test</b>                  | 2020-02-10 to 2020-04-30                                                                                                                                                |
| <b>Related Submittal(s)/Grant(s)</b> | FCC Part 15.247 DTS with FCC ID: XF6-M7DB7<br>FCC Part 15.247 DSS with FCC ID: XF6-M7DB7<br>IC RSS-247 DTS with IC: 8407A-M7DB7<br>IC RSS-247 FHSS with IC: 8407A-M7DB7 |

## 1.2 Operation Condition of EUT

|                                            |                                                                                                                                                                                                                                                   |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Power Operation<br/>(Voltage Range)</b> | <input type="checkbox"/> AC 120 V/60 Hz<br><input type="checkbox"/> Adapter<br><input type="checkbox"/> By Power Cord.                                                                                                                            |
|                                            | <input checked="" type="checkbox"/> DC Type<br><input checked="" type="checkbox"/> DC Power Supply: 3.3V<br><input type="checkbox"/> Battery:<br><input type="checkbox"/> External from USB Cable<br><input type="checkbox"/> External DC Adapter |
|                                            | <input type="checkbox"/> Host System                                                                                                                                                                                                              |

## 1.3 Objective

***The Objective of this Test Report was to document the compliance of the Redpine Signals Inc. Appliance (Model: M7DB) to the requirements of the following Standards:***

- Part 2, Subpart J, Part 15, Subparts A and C, section 15.407 of the Federal Communication Commission's rules.
- ANSI C63.10-2013 of the American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.
- RSS-Gen Issue 5, Mar 2019— General Requirements for Compliance of Radio Apparatus
- RSS-247 Issue 2, Feb 2017— Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices

**1.4 Measurement Uncertainty**

| Parameter                        | Expanded Measurement uncertainty |
|----------------------------------|----------------------------------|
| RF output power                  | $\pm 1.488$ dB                   |
| Occupied Channel Bandwidth       | $\pm 453.927$ Hz                 |
| RF Conducted Emission test       | $\pm 2.77$ dB                    |
| AC Power Line Conducted Emission | $\pm 2.66$ dB                    |
| Radiated Below 1G                | $\pm 3.57$ dB                    |
| Radiated Above 1G                | $\pm 5.32$ dB                    |

The test results with statement of conformity, the decision rules are based on the specifications and standards. The test results will not take the measurement uncertainty into account.

**1.5 Environmental Conditions and Test Date**

| Test Site           | Test Date                | Temperature (°C) | Relative Humidity (% RH) | Test Engineer |
|---------------------|--------------------------|------------------|--------------------------|---------------|
| Conduction (CON-01) | 2020-02-07               | 22.3             | 53                       | Blake Wang    |
| Radiated (966A)     | 2020-02-10 to 2020-03-23 | 19.5-22.9        | 58-62                    | Leo Cheng     |
| Conducted (TH-02)   | 2020-02-18 to 2020-04-30 | 16.9-19.5        | 50-55                    | Blake Wang    |

**1.6 Test Facility**

The Test site used by Bay Area Compliance Laboratories Corp. (Linkou Laboratory) to collect test data is located on

☒ No.6, Wende 2Rd., Guishan Dist., Taoyuan City 33382, Taiwan (R.O.C.).

Bay Area Compliance Laboratories Corp. (Linkou Laboratory) Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 3546) by Mutual Recognition Agreement (MRA). 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. The FCC Registration No.: 0027578244. Designation No.: TW1119. The Test Firm Registration No.: 311381. ISSED#: 25102 and CAB identifier is TW3546.



## 2 System Test Configuration

### 2.1 Description of Test Configuration

The system was configured for testing in testing mode which was provided by manufacturer.

No special accessory, No modification was made to the EUT and No special equipment used during test.

● For BW: 20MHz

| Channel | Frequency (MHz) | Channel             | Frequency (MHz) |
|---------|-----------------|---------------------|-----------------|
| 36      | 5180            | 120 <sup>Note</sup> | 5600            |
| 40      | 5200            | 124 <sup>Note</sup> | 5620            |
| 44      | 5220            | 128 <sup>Note</sup> | 5640            |
| 48      | 5240            | 132                 | 5660            |
| 52      | 5260            | 136                 | 5680            |
| 56      | 5280            | 140                 | 5700            |
| 60      | 5300            | 149                 | 5745            |
| 64      | 5320            | 153                 | 5765            |
| 100     | 5500            | 157                 | 5785            |
| 104     | 5520            | 161                 | 5805            |
| 108     | 5540            | 165                 | 5825            |
| 112     | 5560            | -                   | --              |
| 116     | 5580            | -                   | --              |

For UNII-1: Channel 36, 40 and 48 were tested. For UNII-2a: Channel 52, 60 and 64 were tested. For UNII-2c: Channel 100, 116 and 140 were tested. For UNII-3: Channel 149, 157 and 165 were tested,

Note: Canada not support.

● For BW: 40MHz

| Channel | Frequency (MHz) | Channel             | Frequency (MHz) |
|---------|-----------------|---------------------|-----------------|
| 38      | 5190            | 118 <sup>Note</sup> | 5590            |
| 46      | 5230            | 126 <sup>Note</sup> | 5630            |
| 54      | 5270            | 134                 | 5670            |
| 62      | 5310            | 151                 | 5755            |
| 102     | 5510            | 159                 | 5795            |
| 110     | 5500            | -                   | -               |

For UNII-1: Channel 38 and 46 were tested. For UNII-2a: Channel 54 and 62 were tested. For UNII-2c: Channel 102, 118,

Note: Canada not support.

| Modulation Used for Conformance Test |                 |           |                 |
|--------------------------------------|-----------------|-----------|-----------------|
| Configuration                        | N <sub>TX</sub> | Data Rate | Worst Data Rate |
| 802.11a mode                         | 1               | 6-54 Mbps | 6 Mbps          |
| 802.11n HT20 mode                    | 1               | MCS 0-7   | MCS 0           |
| 802.11n HT40 mode                    | 1               | MCS 0-7   | MCS 0           |

| Worst Case of Power Setting            |                 |           |                     |        |         |
|----------------------------------------|-----------------|-----------|---------------------|--------|---------|
| EUT Exercise Software                  |                 |           | FCC_PER_TEST_GUI.py |        |         |
| < Dipole antenna (TAOGLAS GW.71.5153)> |                 |           |                     |        |         |
| Configuration                          | N <sub>TX</sub> | UNII Band | Low CH              | Mid CH | High CH |
| 802.11a mode                           | 1               | UNII-1    | 22                  | 22     | 22      |
|                                        |                 | UNII-2a   | 22                  | 22     | 22      |
|                                        |                 | UNII-2c   | 22                  | 22     | 7       |
|                                        |                 | UNII-3    | 22                  | 22     | 22      |
| 802.11n HT20 mode                      | 1               | UNII-1    | 22                  | 22     | 22      |
|                                        |                 | UNII-2a   | 22                  | 22     | 22      |
|                                        |                 | UNII-2c   | 22                  | 22     | 6       |
|                                        |                 | UNII-3    | 22                  | 22     | 22      |
| 802.11n HT40 mode                      | 1               | UNII-1    | 7                   | -      | 22      |
|                                        |                 | UNII-2a   | 22                  | -      | 8       |
|                                        |                 | UNII-2c   | 10                  | 22     | 10      |
|                                        |                 | UNII-3    | 22                  | -      | 22      |

| Worst Case of Power Setting                |                 |           |                     |        |         |
|--------------------------------------------|-----------------|-----------|---------------------|--------|---------|
| EUT Exercise Software                      |                 |           | FCC_PER_TEST_GUI.py |        |         |
| < Dipole antenna (Inside WLAN PRO-IS-299)> |                 |           |                     |        |         |
| Configuration                              | N <sub>TX</sub> | UNII Band | Low CH              | Mid CH | High CH |
| 802.11a mode                               | 1               | UNII-1    | 22                  | 22     | 22      |
|                                            |                 | UNII-2a   | 22                  | 22     | 22      |
|                                            |                 | UNII-2c   | 22                  | 22     | 11      |
|                                            |                 | UNII-3    | 22                  | 22     | 22      |
| 802.11n HT20 mode                          | 1               | UNII-1    | 22                  | 22     | 22      |
|                                            |                 | UNII-2a   | 22                  | 22     | 22      |
|                                            |                 | UNII-2c   | 22                  | 22     | 9       |
|                                            |                 | UNII-3    | 22                  | 22     | 22      |
| 802.11n HT40 mode                          | 1               | UNII-1    | 22                  | -      | 22      |
|                                            |                 | UNII-2a   | 22                  | -      | 22      |
|                                            |                 | UNII-2c   | 22                  | 22     | 22      |
|                                            |                 | UNII-3    | 22                  | -      | 22      |

| Worst Case of Power Setting            |                 |           |                     |        |         |
|----------------------------------------|-----------------|-----------|---------------------|--------|---------|
| EUT Exercise Software                  |                 |           | FCC_PER_TEST_GUI.py |        |         |
| < PCB Antenna (Redpine Signals RSIA7)> |                 |           |                     |        |         |
| Configuration                          | N <sub>TX</sub> | UNII Band | Low CH              | Mid CH | High CH |
| 802.11a mode                           | 1               | UNII-1    | 22                  | 22     | 22      |
|                                        |                 | UNII-2a   | 22                  | 22     | 22      |
|                                        |                 | UNII-2c   | 22                  | 22     | 7       |
|                                        |                 | UNII-3    | 22                  | 22     | 22      |
| 802.11n HT20 mode                      | 1               | UNII-1    | 22                  | 22     | 22      |
|                                        |                 | UNII-2a   | 22                  | 22     | 22      |
|                                        |                 | UNII-2c   | 22                  | 22     | 6       |
|                                        |                 | UNII-3    | 22                  | 22     | 22      |
| 802.11n HT40 mode                      | 1               | UNII-1    | 7                   | -      | 22      |
|                                        |                 | UNII-2a   | 22                  | -      | 8       |
|                                        |                 | UNII-2c   | 10                  | 22     | 10      |
|                                        |                 | UNII-3    | 22                  | -      | 22      |

| Worst Case of Power Setting          |                 |           |                     |        |         |
|--------------------------------------|-----------------|-----------|---------------------|--------|---------|
| EUT Exercise Software                |                 |           | FCC_PER_TEST_GUI.py |        |         |
| < PIFA Antenna (SMARTEQ 4211613980)> |                 |           |                     |        |         |
| Configuration                        | N <sub>TX</sub> | UNII Band | Low CH              | Mid CH | High CH |
| 802.11a mode                         | 1               | UNII-1    | 22                  | 22     | 22      |
|                                      |                 | UNII-2a   | 22                  | 22     | 22      |
|                                      |                 | UNII-2c   | 12                  | 22     | 10      |
|                                      |                 | UNII-3    | 22                  | 22     | 22      |
| 802.11n HT20 mode                    | 1               | UNII-1    | 22                  | 22     | 22      |
|                                      |                 | UNII-2a   | 22                  | 22     | 22      |
|                                      |                 | UNII-2c   | 12                  | 22     | 9       |
|                                      |                 | UNII-3    | 22                  | 22     | 22      |
| 802.11n HT40 mode                    | 1               | UNII-1    | 9                   | -      | 22      |
|                                      |                 | UNII-2a   | 22                  | -      | 9       |
|                                      |                 | UNII-2c   | 8                   | 9      | 22      |
|                                      |                 | UNII-3    | 22                  | -      | 22      |

The worst-case data rates are determined to be as follows for each mode based upon investigation by measuring the Peak power and PSD across all data rates bandwidths, and modulations. Radiated below 1G were tested worst output power.

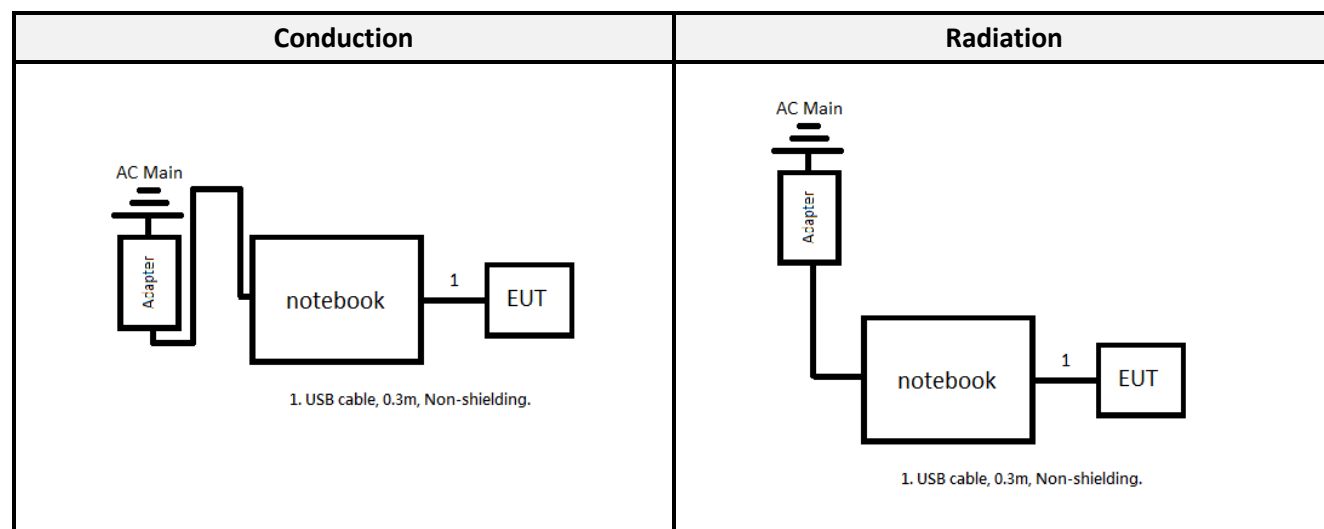
For Radiated Emission, Conducted Power and PSD had test for four antenna because the power setting is different, the result will be different. For Bandwidth only test one result that because the power not affect the result.

## 2.2 Support Equipment and External Cable List

| No. | Description | Manufacturer  | Model Number      |
|-----|-------------|---------------|-------------------|
| A   | Notebook    | DELL          | Inspiron 15       |
| B   | Adapter     | Chicony Power | HA65NS5-00 (DELL) |

| No. | Cable Description | Shielding Type | Length (m) | From | To |
|-----|-------------------|----------------|------------|------|----|
| 1   | USB Cable         | Non-Shielded   | 1          | EUT  | NB |

## 2.3 Block Diagram of Test Setup

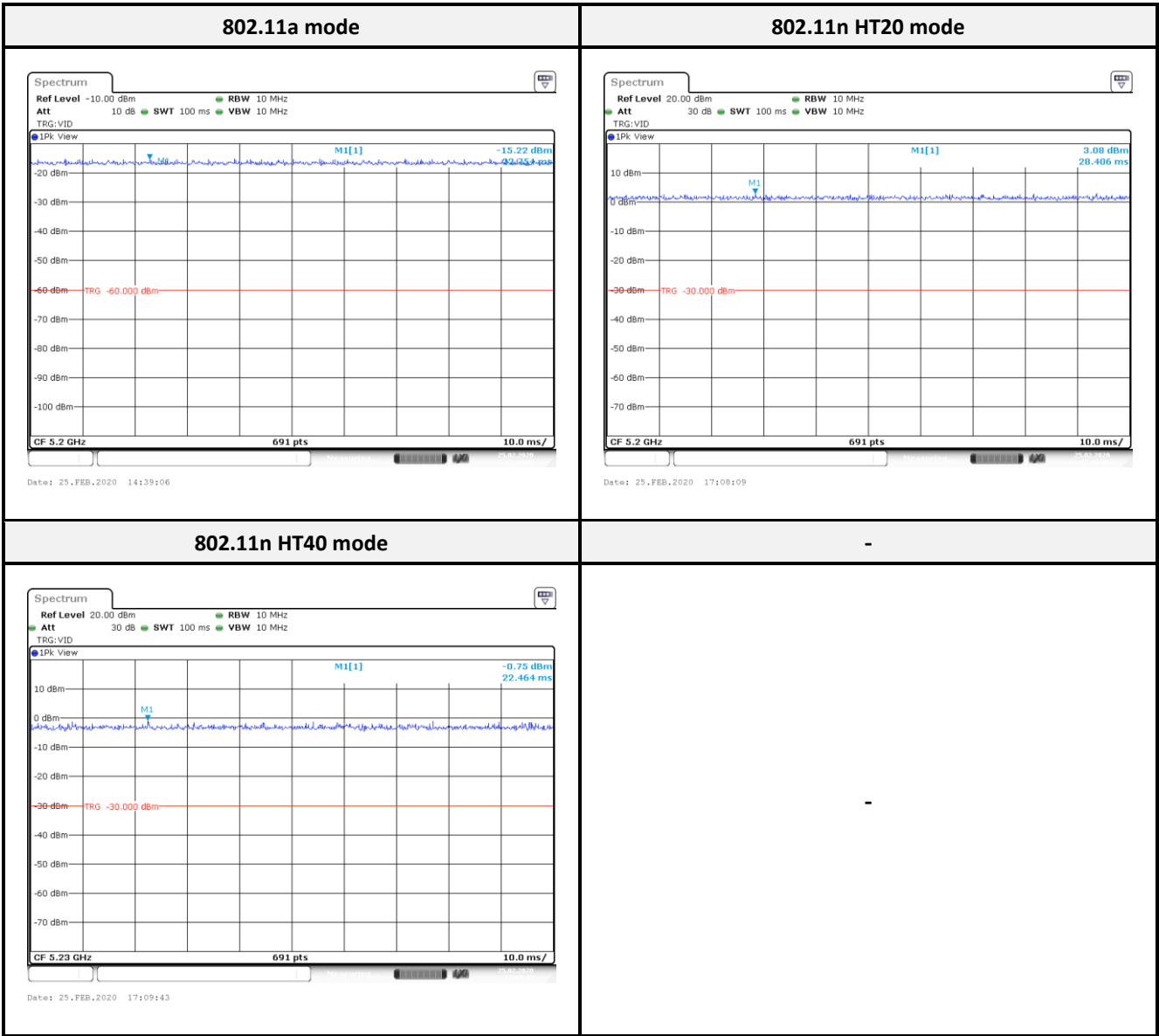


## 2.4 Duty Cycle

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01 section B:

All measurements are to be performed with the EUT transmitting at 100% duty cycle at its maximum power control level; however, if 100% duty cycle cannot be achieved, measurements of duty cycle, x, and maximum power transmission duration, T, are required for each tested mode of operation.

| Configuration     | On Time (ms) | Period (ms) | Duty Cycle (%) | Duty Factor (dB) |
|-------------------|--------------|-------------|----------------|------------------|
| 802.11a mode      | 100          | 100         | 100            | 0.00             |
| 802.11n HT20 mode | 100          | 100         | 100            | 0.00             |
| 802.11n HT40 mode | 100          | 100         | 100            | 0.00             |



### 3 Summary of Test Results

| FCC/ISED Rules                                                                        | Description of Test                                              | Result     |
|---------------------------------------------------------------------------------------|------------------------------------------------------------------|------------|
| §1.1310, §2.1091, §15.407 (f)                                                         | Maximum Permissible Exposure (MPE)                               | Compliance |
| ISED RSS-102 Sec 2.5.2                                                                | Exemption Limits for Routine Evaluation – RF Exposure Evaluation | Compliance |
| §15.207(a), §15.407(b)(6)<br>ISED RSS-Gen Sec 8.8                                     | AC Line Conducted Emissions                                      | Compliance |
| §15.205, §15.209, §15.407(b)<br>ISED RSS-Gen Sec 8.9 and 8.10<br>ISED RSS-247 Sec 6.2 | Spurious Emissions                                               | Compliance |
| §15.407(a)(e)<br>ISED RSS-247 Sec 6.2<br>ISED RSS-Gen Sec 6.7                         | Emission Bandwidth                                               | Compliance |
| §15.407(a)(1)<br>ISED RSS-247 Sec 6.2                                                 | Maximum Output Power                                             | Compliance |
| §15.407(a)(1)(5)<br>ISED RSS-247 Sec 6.2                                              | Power Spectral Density                                           | Compliance |
| FCC §15.407 (h)<br>ISED RSS-247 Sec 6.3                                               | Dynamic Frequency Selections (DFS)                               | Note1      |

Note<sup>1</sup>: Compliance test data was recorded in a separate report, please refer to Test Report: RLK200203002-00F

## 4 FCC §1.1310, §2.1091, §15.407(f) - Maximum Permissible Exposure (MPE)

### 4.1 Applicable Standard

According to subpart 15.247(i) and subpart §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

#### Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

| (B) 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;

According to §1.1310, and §2.1091 RF exposure is calculated.

**Calculated Formulary:** Predication of MPE limit at a given distance

$S = PG/4\pi R^2$  = 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);

### 4.2 RF Exposure Evaluation Result

| Mode       | Frequency Range (MHz) | Antenna Gain |           | Target Power |          | Evaluation Distance (cm) | Power Density (mW/cm <sup>2</sup> ) | MPE Limit (mW/cm <sup>2</sup> ) |
|------------|-----------------------|--------------|-----------|--------------|----------|--------------------------|-------------------------------------|---------------------------------|
|            |                       | (dBi)        | (numeric) | (dBm)        | (mW)     |                          |                                     |                                 |
| BLE        | 2402-2480             | 3.80         | 2.3988    | 19.00        | 79.4328  | 20                       | 0.0379                              | 1                               |
| BR/EDR     | 2402-2480             | 3.80         | 2.3988    | 21.00        | 125.8925 | 20                       | 0.0601                              | 1                               |
| Wi-Fi 2.4G | 2412-2472             | 3.80         | 2.3988    | 25.00        | 316.2278 | 20                       | 0.1510                              | 1                               |
| Wi-Fi 5G   | 5150-5850             | 5.50         | 3.5481    | 14.50        | 28.1838  | 20                       | 0.0199                              | 1                               |

*Note: Wi-Fi and BT can't simultaneously.*

**Result:** MPE evaluation meet 20 cm the requirement of standard.



## 5 RSS-102 Sec 2.5.2- Exemption Limits for Routine Evaluation – RF Exposure Evaluation

---

### 5.1 Applicable Standard

According to subpart RSS-102 Sec 2.5.2,

RF exposure evaluation is required if the separation distance between the user and/or bystander and the device's radiating element is greater than 20 cm, except when the device operates as follows:

- below 20 MHz<sup>6</sup> and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 1 W (adjusted for tune-up tolerance);
- at or above 20 MHz and below 48 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than  $4.49/f^{0.5}$  W (adjusted for tune-up tolerance), where  $f$  is in MHz;
- at or above 48 MHz and below 300 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 0.6 W (adjusted for tune-up tolerance);
- at or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than  $1.31 \times 10^{-2} f^{0.6834}$  W (adjusted for tune-up tolerance), where  $f$  is in MHz;
- at or above 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 5 W (adjusted for tune-up tolerance).

In these cases, the information contained in the RF exposure technical brief may be limited to information that demonstrates how the e.i.r.p. was derived.

### 5.2 RF Exposure Evaluation Result

**BLE Max tune-up conducted output power** is 19.00 dBm (79.4328 mW) at 2402 MHz, Antenna Gain = 3.80 dBi, EIRP = 22.80 dBm (0.1906 W), so the maximum conducted and E.I.R.P. source-based, time-averaged output is less than 2.68 W for general public use.

**BR/EDR Max tune-up conducted output power** is 21.00 dBm (125.8925 mW) at 2402 MHz, Antenna Gain = 3.80 dBi, EIRP = 24.80 dBm (0.3020 W), so the maximum conducted and E.I.R.P. source-based, time-averaged output is less than 2.68 W for general public use.

**Wi-Fi 2.4G Max tune-up conducted output power** is 25.00 dBm (316.2278 mW) at 2437 MHz, Antenna Gain = 3.80 dBi, EIRP = 28.80 dBm (0.7586 W), so the maximum conducted and E.I.R.P. source-based, time-averaged output is less than 2.70 W for general public use.

**Wi-Fi 5G Max tune-up conducted output power** is 14.50 dBm (28.1839 mW) at 5825 MHz, Antenna Gain = 5.50 dBi, EIRP = 20.00 dBm (0.1000 W), so the maximum conducted and E.I.R.P. source-based, time-averaged output is less than 4.90 W for general public use.

*Note: Wi-Fi and BT can't simultaneously.*

**Result:** MPE test exempted.

## 6 FCC §15.203 and RSS-247 Sec 6.8 – Antenna Requirements

### 6.1 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.

And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna does not exceed 6dBi

According to RSS-Gen 6.3: Transmitter Antenna for Licence-Exempt Radio Apparatus

The applicant for equipment certification, as per RSP-100, must provide a list of all antenna types that may be used with the licence-exempt transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna.

Licence-exempt transmitters that have received equipment certification may operate with different types of antennas.

However, it is not permissible to exceed the maximum equivalent isotropically radiated power (e.i.r.p.) limits specified in the applicable standard (RSS) for the licence-exempt apparatus.

Testing shall be performed using the highest gain antenna of each combination of licence-exempt transmitter and antenna type, with the transmitter output power set at the maximum level. Footnote8 When a measurement at the antenna connector is used to determine RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna manufacturer.

User manuals for transmitters equipped with detachable antennas shall also contain the following notice in a conspicuous location:

This radio transmitter (identify the device by certification number) has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Immediately following the above notice, the manufacturer shall provide a list of all antenna types approved for use with the transmitter, indicating the maximum permissible antenna gain (in dBi).

### 6.2 Antenna List and Details

| Brand           | Model      | Antenna Type | Antenna Gain (dBi) | Result     |
|-----------------|------------|--------------|--------------------|------------|
| TAOGLAS         | GW.71.5153 | Dipole       | 5.50               | Compliance |
| SMARTEQ         | 4211613980 | PIFA         | 2.00               | Compliance |
| Inside WLAN     | PRO-IS-299 | Dipole       | 1.60               | Compliance |
| Redpine Signals | RSIA7      | PCB Antenna  | 1.25               | Compliance |

*The EUT has an internal antenna arrangement, which was permanently attached, fulfill the requirement of this section.*

## 7 FCC §15.207 and RSS-247 Sec 6.8 – AC Line Conducted Emissions

### 7.1 Applicable Standard

According to FCC §15.207,

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50  $\mu$ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequencies ranges.

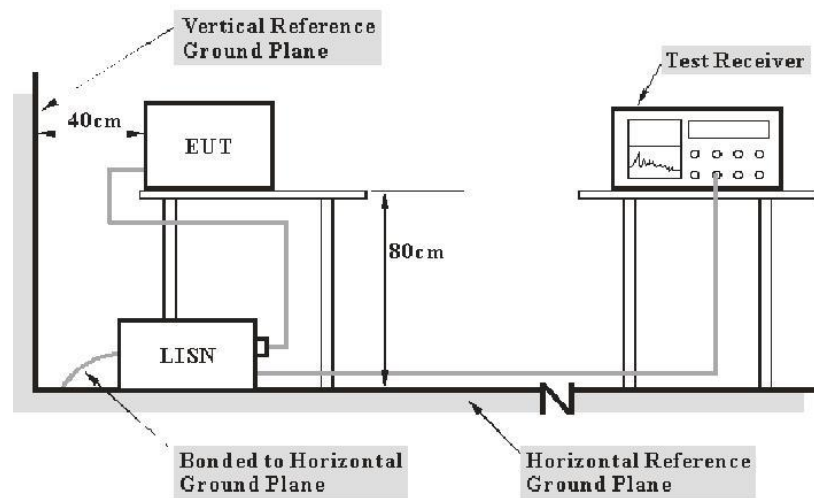
According to RSS-Gen 8.8 Conducted limits:

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50  $\mu$ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequencies ranges.

| Frequency (MHz) | Conducted Limit (dBuV)     |                            |
|-----------------|----------------------------|----------------------------|
|                 | Quasi-Peak                 | Average                    |
| 0.15-0.5        | 66 to 56 <sup>Note 1</sup> | 56 to 46 <sup>Note 2</sup> |
| 0.5-5           | 56                         | 46                         |
| 5-30            | 60                         | 50                         |

Note 1: Decreases with the logarithm of the frequency. Note 2: A linear average detector is required

## 7.2 EUT Setup and Test Procedure



- 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 and RSS-Gen limits, 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  | Receiver RBW |
|------------------|--------------|
| 150 kHz - 30 MHz | 9 kHz        |

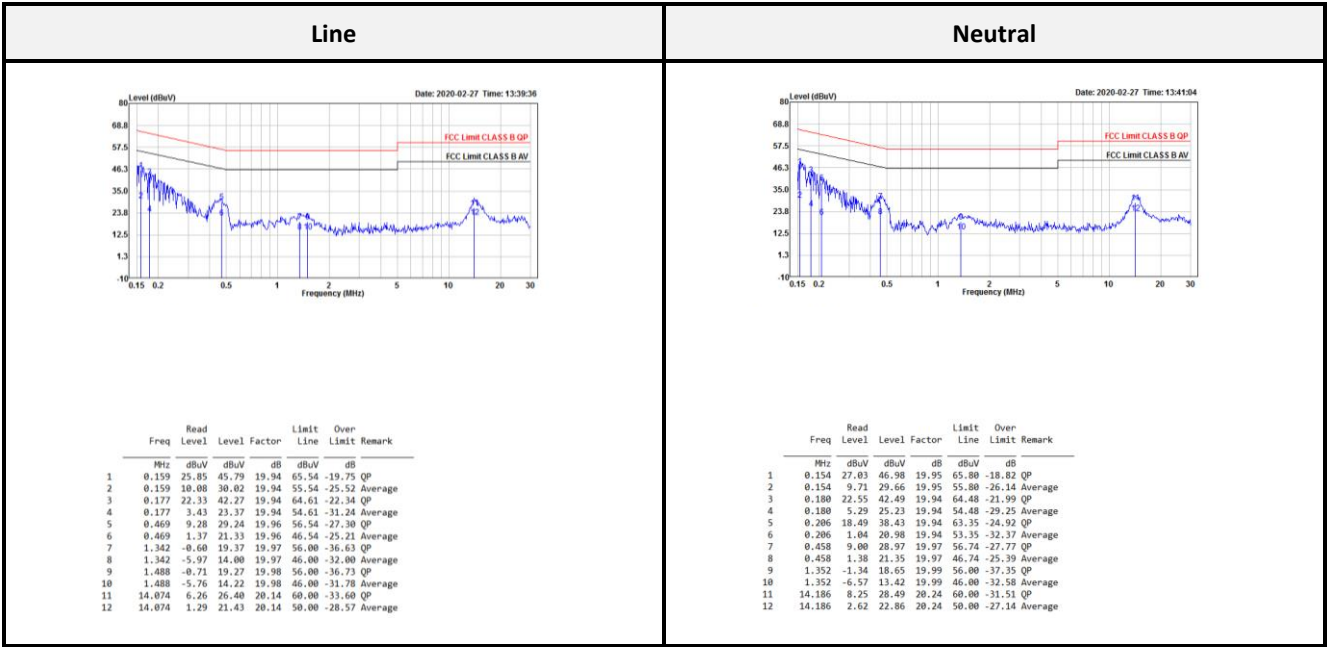
During the conducted emission test, the adapter was connected to the outlet of the LISN. Maximizing procedure was performed on the six (6) highest emissions of the EUT. All data was recorded in the Quasi-peak and average detection mode.

## 7.3 Test Equipment List and Details

| Description                      | Manufacture     | Model                | Serial No. | Cal. Date. | Cal. Due.  |
|----------------------------------|-----------------|----------------------|------------|------------|------------|
| AC Line Conduction Room (CON-01) |                 |                      |            |            |            |
| Two-Line V-Network               | Rohde & Schwarz | ENV216               | 100010     | 2019/09/02 | 2020/09/01 |
| Pulse Limiter                    | SCHWARZBECK     | VSTD 9561-F          | 00432      | 2019/08/28 | 2020/08/27 |
| EMI Test Receiver                | Rohde & Schwarz | ESR3                 | 102448     | 2019/06/27 | 2020/06/23 |
| RF Cable                         | EMCI            | EMCCFD300-BM-BM-8000 | 180526     | 2019/08/08 | 2020/08/07 |
| Software                         | Audix           | e3 v9                | E3LK-03    | N.C.R      | N.C.R      |

**\*Statement of Traceability:** The testing equipment's listed above have finished the calibration by Electronics Testing Center, Taiwan (ETC) or other laboratories which were accredited by TAF or equivalent organizations. The calibration result could be traceable to the International System of Units (SI).

7.4 Test Data and Test Plot



Note1: Transmit Mode

Note2:

Level = Reading Level + Correct Factor

Over Limit = Level – Limit

Factor = (LISN, ISN, PLC or current probe) Factor + Cable Loss + Attenuator

## **8 FCC §15.209, §15.205 & §15.407(b), RSS-Gen Sec 8.9, 8.10 and RSS-247 Sec 6.2 – Spurious Unwanted Emissions**

---

### **8.1 Applicable Standard**

According to FCC §15.407(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.
  - (ii) Devices certified before March 2, 2017 with antenna gain greater than 10 dBi may demonstrate compliance with the emission limits in §15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease by March 2, 2018. Devices certified before March 2, 2018 with antenna gain of 10 dBi or less may demonstrate compliance with the emission limits in §15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease before March 2, 2020.
- (5) The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.
- (6) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209. Further.
- (7) The provisions of §15.205 apply to intentional radiators operating under this section.
- (8) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the upper and lower frequency band edges as the design of the equipment permits.

As per FCC §15.35(d): Unless otherwise specified, on any frequency or frequencies above 1000 MHz, the radiated emission limits are based on the use of measurement instrumentation employing an average detector function. Unless otherwise specified, measurements above 1000 MHz shall be performed using a minimum resolution bandwidth of 1MHz.

As Per FCC §15.205(a) except as show in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

| MHz               | MHz                 | MHz           | GHz         |
|-------------------|---------------------|---------------|-------------|
| 0.090-0.110       | 13.36-13.41         | 399.9-410     | 4.5-5.15    |
| 0.495-0.505       | 16.42-16.423        | 608-614       | 5.35-5.46   |
| 2.1735-2.1905     | 16.69475-16.69525   | 960-1240      | 7.25-7.75   |
| 4.125-4.128       | 25.5-25.67          | 1300-1427     | 8.025-8.5   |
| 4.17725-4.17775   | 37.5-38.25          | 1435-1626.5   | 9.0-9.2     |
| 4.20725-4.20775   | 73-74.6             | 1645.5-1646.5 | 9.3-9.5     |
| 6.215-6.218       | 74.8-75.2           | 1660-1710     | 10.6-12.7   |
| 6.26775-6.26825   | 108-121.94          | 1718.8-1722.2 | 13.25-13.4  |
| 6.31175-6.31225   | 123-138             | 2200-2300     | 14.47-14.5  |
| 8.291-8.294       | 149.9-150.05        | 2310-2390     | 15.35-16.2  |
| 8.362-8.366       | 156.52475-156.52525 | 2483.5-2500   | 17.7-21.4   |
| 8.37625-8.38675   | 156.7-156.9         | 2690-2900     | 22.01-23.12 |
| 8.41425-8.41475   | 162.0125-167.17     | 3260-3267     | 23.6-24.0   |
| 12.29-12.293      | 167.72-173.2        | 3332-3339     | 31.2-31.8   |
| 12.51975-12.52025 | 240-285             | 3345.8-3358   | 36.43-36.5  |
| 12.57675-12.57725 | 322-335.4           | 3600-4400     | Above 38.6  |

As per FCC §15.209(a): Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

| Frequency (MHz) | Field Strength (micro volts/meter) | Measurement Distance (meters) |
|-----------------|------------------------------------|-------------------------------|
| 0.009 - 0.490   | 2400/F(kHz)                        | 300                           |
| 0.490 - 1.705   | 24000/F(kHz)                       | 30                            |
| 1.705 - 30.0    | 30                                 | 30                            |
| 30 - 88         | 100**                              | 3                             |
| 88 - 216        | 150**                              | 3                             |
| 216 - 960       | 200**                              | 3                             |
| Above 960       | 500                                | 3                             |

\*\* Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

According to ISSED RSS-247 Sec 6.2,

- The outermost carrier frequencies or channels shall be used when measuring unwanted emissions. Such carrier or channel centre frequencies are to be indicated in the test report.
- For transmitters with operating frequencies in the band 5150-5250 MHz, all emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. Any unwanted emissions that fall into the band 5250-5350 MHz shall be attenuated below the channel power by at least 26 dB, when measured using a resolution bandwidth between 1 and 5% of the occupied bandwidth (i.e. 99% bandwidth), above 5250 MHz. The 26 dB bandwidth may fall into the 5250-5350 MHz band; however, if the occupied bandwidth also falls within the 5250-5350 MHz band, the transmission is considered as intentional and the devices shall comply with all requirements in the band 5250-5350 MHz including implementing dynamic frequency selection (DFS) and TPC, on the portion of the emission that resides in the 5250-5350 MHz band
- Devices shall comply with the following:
  - a) All emissions outside the band 5250-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p.; or
  - b) All emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. and its power shall comply with the spectral power density for operation within the band 5150-5250 MHz. The device, except devices installed in vehicles, shall be labelled or include in the user manual the following text “for indoor use only.”
- Emissions outside the band 5470-5725 MHz shall not exceed -27 dBm/MHz e.i.r.p. However, devices with bandwidth overlapping the band edge of 5725 MHz can meet the emission limit of -27 dBm/MHz e.i.r.p. at 5850 MHz instead of 5725 MHz.
- Devices operating in the band 5725-5850 MHz with antenna gain greater than 10 dBi can have unwanted emissions that comply with either the limits in this section or in section 5.5 until six (6) months after the publication date of this standard for certification. Certified devices that do not comply with emission limits in this section shall not be manufactured, imported, distributed, leased, offered for sale or sold after April 1, 2018.

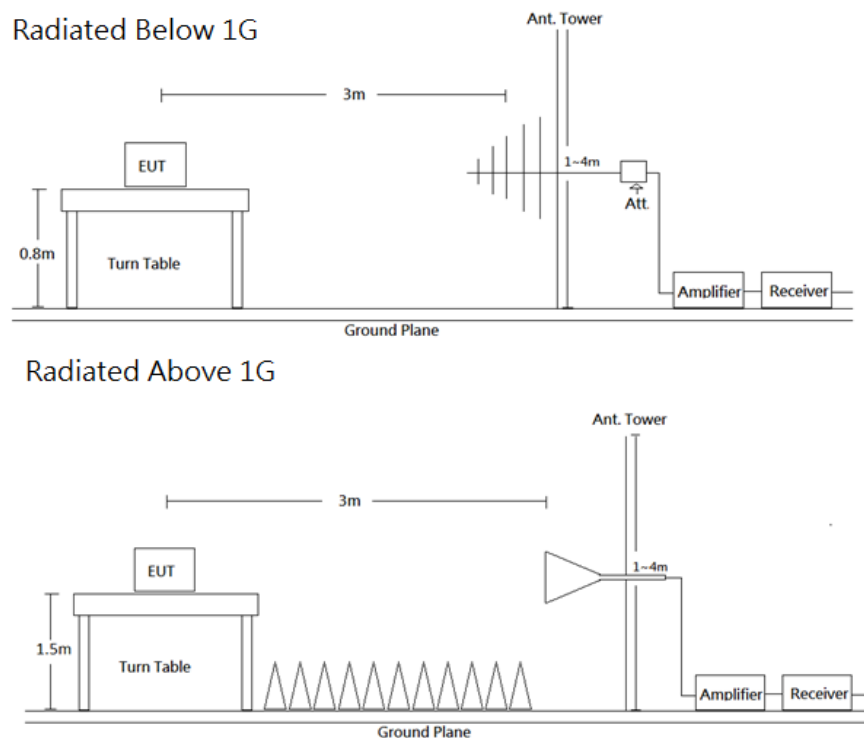


● Devices operating in the band 5725-5850 MHz with antenna gain of 10 dBi or less can have unwanted emissions that comply with either the limits in this section or in section 5.5 until April 1, 2018 for certification. Certified devices that do not comply with emission limits in this section shall not be manufactured, imported, distributed, leased, offered for sale or sold after April 1, 2020.

Devices operating in the band 5725-5850 MHz shall have e.i.r.p. of unwanted emissions comply with the following:

- a) 27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges;
- b) 15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges;
- c) 10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges; and
- d) -27 dBm/MHz at frequencies more than 75 MHz above or below the band edges.

## 8.2 EUT Setup and Test Procedure



Radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC Part 15.209 and FCC 15.407 Limits.

The system was investigated from 30 MHz to 40 GHz. During the radiated emission test, the EMI test receiver was set with the following configurations measurement method 6.3 in ANSI C63.10-2013.

| Frequency Range | RBW     | VBW   | Duty cycle | Measurement method |
|-----------------|---------|-------|------------|--------------------|
| 30-1000 MHz     | 120 kHz | /     | -          | QP                 |
| Above 1 GHz     | 1 MHz   | 3 MHz | -          | PK                 |
|                 | 1 MHz   | 10 Hz | >98%       | Ave                |
|                 | 1 MHz   | 1/T   | <98%       | Ave                |

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations. All data was recorded in the Quasi-peak detector mode from 30 MHz to 1 GHz and PK and average detector modes for frequencies above 1 GHz.

### 8.3 Test Equipment List and Details

| Description                     | Manufacture                 | Model                 | Serial No.           | Cal. Date. | Cal. Due.  |
|---------------------------------|-----------------------------|-----------------------|----------------------|------------|------------|
| <b>Radiation 3M Room (966A)</b> |                             |                       |                      |            |            |
| Active Loop                     | EMCO                        | 6502                  | 0001-3322            | 2020/03/16 | 2021/03/15 |
| Bilog Antenna/6 dB Attenuator   | SUNOL SCIENCES & EMEC /EMCI | JB3/N-6-06            | A111513/AT-N0668     | 2020/03/19 | 2021/03/18 |
| Horn Antenna                    | ETS-Lindgren                | 3115                  | 00109141             | 2019/07/05 | 2020/07/04 |
| Horn Antenna                    | ETS-Lindgren                | 3160-09               | 00123852             | 2019/07/11 | 2020/07/10 |
| Preamplifier                    | A.H. Systems                | PAM-0118              | 470                  | 2020/03/16 | 2021/03/15 |
| Preamplifier                    | A.H. Systems                | PAM-1840VH            | 174                  | 2020/03/25 | 2021/03/24 |
| Signal and Spectrum Analyzer    | Rohde & Schwarz             | FSV40                 | 101456               | 2019/07/12 | 2020/07/11 |
| Microflex Cable (1m)            | EMCI                        | EMC106-SM-SM-2000     | 180515               | 2019/08/07 | 2020/08/06 |
| Microflex Cable (2m)            | MTJ                         | H0919                 | 00000-MT28A-100      | 2019/08/07 | 2020/08/06 |
| Microflex Cable (8m)            | UTIFLEX                     | UFA210A-1-3149-300300 | MFR 64639 232490-001 | 2019/08/07 | 2020/08/06 |
| Turn Table                      | Chaintek                    | T-200-S-1             | 003501               | N.C.R      | N.C.R      |
| Antenna Tower                   | Chaintek                    | MBD-400-1             | 003504               | N.C.R      | N.C.R      |
| Controller                      | Chaintek                    | 3000-1                | 003507               | N.C.R      | N.C.R      |
| Software                        | Audix                       | e3 v9                 | E3LK-01              | N.C.R      | N.C.R      |
| <b>Conducted Room(TH-02)</b>    |                             |                       |                      |            |            |
| Signal Analyzer 40GHZ           | Rohde & Schwarz             | FSV40-N               | 102248               | 2019/09/11 | 2020/09/10 |
| RF Cable                        | MTJ                         | MT40S                 | MT40S-001            | Each Use   | /          |

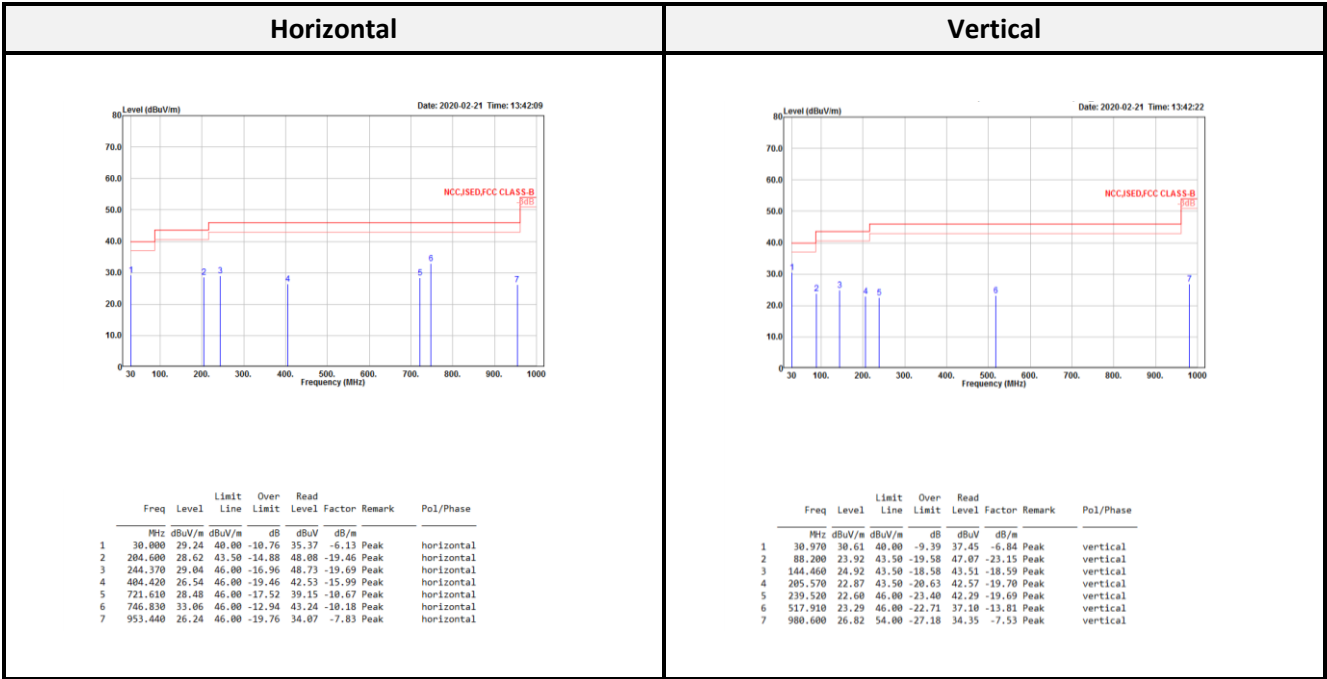
**\*Statement of Traceability:** The testing equipment's listed above have finished the calibration by Electronics Testing Center, Taiwan (ETC) or other laboratories which were accredited by TAF or equivalent organizations. The calibration result could be traceable to the International System of Units (SI).

8.4 Test Data and Test Plot

<Dipole Antenna: TAOGLAS/GW.71.5153>

Transmitting mode (Pre-scan with three orthogonal axis, and worse case as X axis)

Below 1G (30 MHz-1 GHz) test the output power worst mode



Level = Read Level + Factor

Over Limit = Level – Limit

Correct Factor = Antenna Factor + Cable Loss – Amplifier Gain

Spurious emissions more than 20 dB below the limit were not reported

**Above 1G (1 GHz-40 GHz) in UNII-1:**

**802.11a mode:**

| Low CH     |        |        |        |        |        |         |           |        |        |        |       |        |         |
|------------|--------|--------|--------|--------|--------|---------|-----------|--------|--------|--------|-------|--------|---------|
| Horizontal |        |        |        |        |        |         | Vertical  |        |        |        |       |        |         |
| Freq       | Level  | Limit  | Over   | Read   | Factor | Remark  | Freq      | Level  | Limit  | Over   | Read  | Factor | Remark  |
|            |        | Line   | Limit  | Level  |        |         |           |        | Line   | Limit  | Level |        |         |
| MHz        | dBuV/m | dBuV/m | dB     | dBuV   | dB/m   |         | MHz       | dBuV/m | dBuV/m | dB     | dBuV  | dB/m   |         |
| 5148.100   | 52.10  | 54.00  | -1.90  | 51.75  | 0.35   | Average | 5148.100  | 48.30  | 54.00  | -5.70  | 47.95 | 0.35   | Average |
| 5148.100   | 71.05  | 74.00  | -2.95  | 70.70  | 0.35   | Peak    | 5148.100  | 64.69  | 74.00  | -9.31  | 64.34 | 0.35   | Peak    |
| 5182.300   | 95.82  |        |        | 95.57  | 0.25   | Average | 5177.800  | 88.06  |        |        | 87.81 | 0.25   | Average |
| 5182.300   | 106.49 |        |        | 106.24 | 0.25   | Peak    | 5177.800  | 98.68  |        |        | 98.43 | 0.25   | Peak    |
| 6906.600   | 61.96  | 68.20  | -6.24  | 57.52  | 4.44   | Peak    | 6906.600  | 56.27  | 68.20  | -11.93 | 51.83 | 4.44   | Peak    |
| 10360.000  | 50.84  | 68.20  | -17.36 | 41.62  | 9.22   | Peak    | 10360.000 | 51.08  | 68.20  | -17.12 | 41.86 | 9.22   | Peak    |
| 15540.000  | 45.90  | 54.00  | -8.10  | 31.71  | 14.19  | Average | 15540.000 | 45.16  | 54.00  | -8.84  | 30.97 | 14.19  | Average |
| 15540.000  | 57.46  | 74.00  | -16.54 | 43.27  | 14.19  | Peak    | 15540.000 | 55.96  | 74.00  | -18.04 | 41.77 | 14.19  | Peak    |

| Middle CH  |        |        |        |        |        |         |           |        |        |        |       |        |         |
|------------|--------|--------|--------|--------|--------|---------|-----------|--------|--------|--------|-------|--------|---------|
| Horizontal |        |        |        |        |        |         | Vertical  |        |        |        |       |        |         |
| Freq       | Level  | Limit  | Over   | Read   | Factor | Remark  | Freq      | Level  | Limit  | Over   | Read  | Factor | Remark  |
|            |        | Line   | Limit  | Level  |        |         |           |        | Line   | Limit  | Level |        |         |
| MHz        | dBuV/m | dBuV/m | dB     | dBuV   | dB/m   |         | MHz       | dBuV/m | dBuV/m | dB     | dBuV  | dB/m   |         |
| 5101.600   | 46.73  | 54.00  | -7.27  | 46.25  | 0.48   | Average | 5129.600  | 46.54  | 54.00  | -7.46  | 46.13 | 0.41   | Average |
| 5101.600   | 60.08  | 74.00  | -13.92 | 59.60  | 0.48   | Peak    | 5129.600  | 60.77  | 74.00  | -13.23 | 60.36 | 0.41   | Peak    |
| 5202.400   | 95.91  |        |        | 95.66  | 0.25   | Average | 5203.600  | 85.96  |        |        | 85.70 | 0.26   | Average |
| 5202.400   | 106.40 |        |        | 106.15 | 0.25   | Peak    | 5203.600  | 95.70  |        |        | 95.44 | 0.26   | Peak    |
| 5382.400   | 46.49  | 54.00  | -7.51  | 46.32  | 0.17   | Average | 5444.400  | 46.58  | 54.00  | -7.42  | 46.33 | 0.25   | Average |
| 5382.400   | 61.07  | 74.00  | -12.93 | 60.90  | 0.17   | Peak    | 5444.400  | 60.81  | 74.00  | -13.19 | 60.56 | 0.25   | Peak    |
| 6933.330   | 59.35  | 68.20  | -8.85  | 54.97  | 4.38   | Peak    | 6933.330  | 54.35  | 68.20  | -13.85 | 49.97 | 4.38   | Peak    |
| 10400.000  | 50.49  | 68.20  | -17.71 | 41.10  | 9.39   | Peak    | 10400.000 | 50.03  | 68.20  | -18.17 | 40.64 | 9.39   | Peak    |
| 15600.000  | 45.42  | 54.00  | -8.58  | 31.25  | 14.17  | Average | 15600.000 | 45.42  | 54.00  | -8.58  | 31.25 | 14.17  | Average |
| 15600.000  | 56.73  | 74.00  | -17.27 | 42.56  | 14.17  | Peak    | 15600.000 | 57.60  | 74.00  | -16.40 | 43.43 | 14.17  | Peak    |

| High CH    |        |        |        |        |        |         |           |        |        |        |       |        |         |
|------------|--------|--------|--------|--------|--------|---------|-----------|--------|--------|--------|-------|--------|---------|
| Horizontal |        |        |        |        |        |         | Vertical  |        |        |        |       |        |         |
| Freq       | Level  | Limit  | Over   | Read   | Factor | Remark  | Freq      | Level  | Limit  | Over   | Read  | Factor | Remark  |
|            |        | Line   | Limit  | Level  |        |         |           |        | Line   | Limit  | Level |        |         |
| MHz        | dBuV/m | dBuV/m | dB     | dBuV   | dB/m   |         | MHz       | dBuV/m | dBuV/m | dB     | dBuV  | dB/m   |         |
| 5118.000   | 46.80  | 54.00  | -7.20  | 46.36  | 0.44   | Average | 5070.800  | 46.71  | 54.00  | -7.29  | 46.13 | 0.58   | Average |
| 5118.000   | 60.96  | 74.00  | -13.04 | 60.52  | 0.44   | Peak    | 5070.800  | 61.22  | 74.00  | -12.78 | 60.64 | 0.58   | Peak    |
| 5238.000   | 96.67  |        |        | 96.43  | 0.24   | Average | 5239.600  | 86.88  |        |        | 86.65 | 0.23   | Average |
| 5238.000   | 107.15 |        |        | 106.91 | 0.24   | Peak    | 5239.600  | 96.71  |        |        | 96.48 | 0.23   | Peak    |
| 5358.000   | 46.53  | 54.00  | -7.47  | 46.33  | 0.20   | Average | 5400.800  | 46.23  | 54.00  | -7.77  | 46.11 | 0.12   | Average |
| 5358.000   | 60.07  | 74.00  | -13.93 | 59.87  | 0.20   | Peak    | 5400.800  | 59.90  | 74.00  | -14.10 | 59.78 | 0.12   | Peak    |
| 6986.640   | 58.88  | 68.20  | -9.32  | 54.69  | 4.19   | Peak    | 6986.640  | 55.99  | 68.20  | -12.21 | 51.80 | 4.19   | Peak    |
| 10480.000  | 49.76  | 68.20  | -18.44 | 40.57  | 9.19   | Peak    | 10480.000 | 50.80  | 68.20  | -17.40 | 41.61 | 9.19   | Peak    |
| 15720.000  | 45.51  | 54.00  | -8.49  | 31.21  | 14.30  | Average | 15720.000 | 45.46  | 54.00  | -8.54  | 31.16 | 14.30  | Average |
| 15720.000  | 59.18  | 74.00  | -14.82 | 44.88  | 14.30  | Peak    | 15720.000 | 60.60  | 74.00  | -13.40 | 46.30 | 14.30  | Peak    |

**802.11n HT20 mode:**

| Low CH     |        |            |            |            |        |         |           |        |            |            |            |        |         |
|------------|--------|------------|------------|------------|--------|---------|-----------|--------|------------|------------|------------|--------|---------|
| Horizontal |        |            |            |            |        |         | Vertical  |        |            |            |            |        |         |
| Freq       | Level  | Limit Line | Over Limit | Read Level | Factor | Remark  | Freq      | Level  | Limit Line | Over Limit | Read Level | Factor | Remark  |
| MHz        | dBuV/m | dBuV/m     | dB         | dBuV       | dB/m   |         | MHz       | dBuV/m | dBuV/m     | dB         | dBuV       | dB/m   |         |
| 5149.900   | 53.60  | 54.00      | -0.40      | 53.25      | 0.35   | Average | 5149.450  | 50.45  | 54.00      | -3.55      | 50.10      | 0.35   | Average |
| 5149.900   | 72.53  | 74.00      | -1.47      | 72.18      | 0.35   | Peak    | 5149.450  | 66.31  | 74.00      | -7.69      | 65.96      | 0.35   | Peak    |
| 5181.550   | 95.48  |            |            | 95.24      | 0.24   | Average | 5178.700  | 88.05  |            |            | 87.80      | 0.25   | Average |
| 5181.550   | 106.39 |            |            | 106.15     | 0.24   | Peak    | 5178.700  | 98.68  |            |            | 98.43      | 0.25   | Peak    |
| 6906.600   | 63.05  | 68.20      | -5.15      | 58.61      | 4.44   | Peak    | 6906.600  | 55.83  | 68.20      | -12.37     | 51.39      | 4.44   | Peak    |
| 10360.000  | 50.31  | 68.20      | -17.89     | 41.09      | 9.22   | Peak    | 10360.000 | 50.08  | 68.20      | -18.12     | 40.86      | 9.22   | Peak    |
| 15540.000  | 46.37  | 54.00      | -7.63      | 32.18      | 14.19  | Average | 15540.000 | 44.83  | 54.00      | -9.17      | 30.64      | 14.19  | Average |
| 15540.000  | 55.59  | 74.00      | -18.41     | 41.40      | 14.19  | Peak    | 15540.000 | 55.80  | 74.00      | -18.20     | 41.61      | 14.19  | Peak    |

| Middle CH  |        |            |            |            |        |         |           |        |            |            |            |        |         |
|------------|--------|------------|------------|------------|--------|---------|-----------|--------|------------|------------|------------|--------|---------|
| Horizontal |        |            |            |            |        |         | Vertical  |        |            |            |            |        |         |
| Freq       | Level  | Limit Line | Over Limit | Read Level | Factor | Remark  | Freq      | Level  | Limit Line | Over Limit | Read Level | Factor | Remark  |
| MHz        | dBuV/m | dBuV/m     | dB         | dBuV       | dB/m   |         | MHz       | dBuV/m | dBuV/m     | dB         | dBuV       | dB/m   |         |
| 5102.800   | 47.13  | 54.00      | -6.87      | 46.66      | 0.47   | Average | 5120.400  | 46.82  | 54.00      | -7.18      | 46.39      | 0.43   | Average |
| 5102.800   | 60.93  | 74.00      | -13.07     | 60.46      | 0.47   | Peak    | 5120.400  | 61.62  | 74.00      | -12.38     | 61.19      | 0.43   | Peak    |
| 5198.000   | 95.96  |            |            | 95.70      | 0.26   | Average | 5198.800  | 87.56  |            |            | 87.31      | 0.25   | Average |
| 5198.000   | 106.58 |            |            | 106.32     | 0.26   | Peak    | 5198.800  | 97.95  |            |            | 97.70      | 0.25   | Peak    |
| 5352.000   | 46.56  | 54.00      | -7.44      | 46.34      | 0.22   | Average | 5373.200  | 46.65  | 54.00      | -7.35      | 46.47      | 0.18   | Average |
| 5352.000   | 61.45  | 74.00      | -12.55     | 61.23      | 0.22   | Peak    | 5373.200  | 61.69  | 74.00      | -12.31     | 61.51      | 0.18   | Peak    |
| 6933.300   | 60.85  | 68.20      | -7.35      | 56.47      | 4.38   | Peak    | 6933.300  | 55.20  | 68.20      | -13.00     | 50.82      | 4.38   | Peak    |
| 10400.000  | 51.62  | 68.20      | -16.58     | 42.23      | 9.39   | Peak    | 10400.000 | 50.73  | 68.20      | -17.47     | 41.34      | 9.39   | Peak    |
| 15600.000  | 45.56  | 54.00      | -8.44      | 31.39      | 14.17  | Average | 15600.000 | 45.50  | 54.00      | -8.50      | 31.33      | 14.17  | Average |
| 15600.000  | 58.11  | 74.00      | -15.89     | 43.94      | 14.17  | Peak    | 15600.000 | 57.96  | 74.00      | -16.04     | 43.79      | 14.17  | Peak    |

| High CH    |        |            |            |            |        |         |           |        |            |            |            |        |         |
|------------|--------|------------|------------|------------|--------|---------|-----------|--------|------------|------------|------------|--------|---------|
| Horizontal |        |            |            |            |        |         | Vertical  |        |            |            |            |        |         |
| Freq       | Level  | Limit Line | Over Limit | Read Level | Factor | Remark  | Freq      | Level  | Limit Line | Over Limit | Read Level | Factor | Remark  |
| MHz        | dBuV/m | dBuV/m     | dB         | dBuV       | dB/m   |         | MHz       | dBuV/m | dBuV/m     | dB         | dBuV       | dB/m   |         |
| 5130.000   | 46.72  | 54.00      | -7.28      | 46.31      | 0.41   | Average | 5102.000  | 46.88  | 54.00      | -7.12      | 46.41      | 0.47   | Average |
| 5130.000   | 60.89  | 74.00      | -13.11     | 60.48      | 0.41   | Peak    | 5102.000  | 60.57  | 74.00      | -13.43     | 60.10      | 0.47   | Peak    |
| 5241.600   | 96.48  |            |            | 96.26      | 0.22   | Average | 5241.600  | 87.48  |            |            | 87.26      | 0.22   | Average |
| 5241.600   | 107.25 |            |            | 107.03     | 0.22   | Peak    | 5241.600  | 98.28  |            |            | 98.06      | 0.22   | Peak    |
| 5365.200   | 46.90  | 54.00      | -7.10      | 46.71      | 0.19   | Average | 5423.600  | 46.72  | 54.00      | -7.28      | 46.54      | 0.18   | Average |
| 5365.200   | 61.35  | 74.00      | -12.65     | 61.16      | 0.19   | Peak    | 5423.600  | 60.83  | 74.00      | -13.17     | 60.65      | 0.18   | Peak    |
| 6986.600   | 58.52  | 68.20      | -9.68      | 54.33      | 4.19   | Peak    | 6986.600  | 55.15  | 68.20      | -13.05     | 50.84      | 4.31   | Peak    |
| 10480.000  | 49.83  | 68.20      | -18.37     | 40.64      | 9.19   | Peak    | 10480.000 | 50.38  | 68.20      | -17.82     | 41.19      | 9.19   | Peak    |
| 15720.000  | 46.18  | 54.00      | -7.82      | 31.88      | 14.30  | Average | 15720.000 | 45.97  | 54.00      | -8.03      | 31.67      | 14.30  | Average |
| 15720.000  | 60.31  | 74.00      | -13.69     | 46.01      | 14.30  | Peak    | 15720.000 | 60.14  | 74.00      | -13.86     | 45.84      | 14.30  | Peak    |

**802.11n HT40 mode:**

| Low CH     |        |        |        |       |        |         |           |        |        |        |       |        |         |
|------------|--------|--------|--------|-------|--------|---------|-----------|--------|--------|--------|-------|--------|---------|
| Horizontal |        |        |        |       |        |         | Vertical  |        |        |        |       |        |         |
| Freq       | Level  | Limit  | Over   | Read  | Factor | Remark  | Freq      | Level  | Limit  | Over   | Read  | Factor | Remark  |
| MHz        | dBuV/m | dBuV/m | dB     | dBuV  | dB/m   |         | MHz       | dBuV/m | dBuV/m | dB     | dBuV  | dB/m   |         |
| 5149.680   | 53.09  | 54.00  | -0.91  | 52.74 | 0.35   | Average | 5149.360  | 48.80  | 54.00  | -5.20  | 48.45 | 0.35   | Average |
| 5149.680   | 68.22  | 74.00  | -5.78  | 67.87 | 0.35   | Peak    | 5149.360  | 64.53  | 74.00  | -9.47  | 64.18 | 0.35   | Peak    |
| 5195.600   | 87.09  |        |        | 86.84 | 0.25   | Average | 5184.560  | 79.03  |        |        | 78.79 | 0.24   | Average |
| 5195.600   | 98.35  |        |        | 98.10 | 0.25   | Peak    | 5184.560  | 90.34  |        |        | 90.10 | 0.24   | Peak    |
| 10380.000  | 50.45  | 68.20  | -17.75 | 41.09 | 9.36   | Peak    | 10380.000 | 49.32  | 68.20  | -18.88 | 39.96 | 9.36   | Peak    |
| 15570.000  | 44.41  | 54.00  | -9.59  | 30.23 | 14.18  | Average | 15570.000 | 43.57  | 54.00  | -10.43 | 29.39 | 14.18  | Average |
| 15570.000  | 56.34  | 74.00  | -17.66 | 42.16 | 14.18  | Peak    | 15570.000 | 55.49  | 74.00  | -18.51 | 41.31 | 14.18  | Peak    |

| High CH    |        |        |        |        |        |         |           |        |        |        |       |        |         |
|------------|--------|--------|--------|--------|--------|---------|-----------|--------|--------|--------|-------|--------|---------|
| Horizontal |        |        |        |        |        |         | Vertical  |        |        |        |       |        |         |
| Freq       | Level  | Limit  | Over   | Read   | Factor | Remark  | Freq      | Level  | Limit  | Over   | Read  | Factor | Remark  |
| MHz        | dBuV/m | dBuV/m | dB     | dBuV   | dB/m   |         | MHz       | dBuV/m | dBuV/m | dB     | dBuV  | dB/m   |         |
| 5138.000   | 46.96  | 54.00  | -7.04  | 46.57  | 0.39   | Average | 5149.600  | 46.95  | 54.00  | -7.05  | 46.60 | 0.35   | Average |
| 5138.000   | 60.93  | 74.00  | -13.07 | 60.54  | 0.39   | Peak    | 5149.600  | 61.17  | 74.00  | -12.83 | 60.82 | 0.35   | Peak    |
| 5234.000   | 91.01  |        |        | 90.75  | 0.26   | Average | 5234.000  | 80.98  |        |        | 80.72 | 0.26   | Average |
| 5234.000   | 102.50 |        |        | 102.24 | 0.26   | Peak    | 5234.000  | 92.04  |        |        | 91.78 | 0.26   | Peak    |
| 5368.800   | 46.59  | 54.00  | -7.41  | 46.40  | 0.19   | Average | 5446.800  | 46.74  | 54.00  | -7.26  | 46.47 | 0.27   | Average |
| 5368.800   | 60.94  | 74.00  | -13.06 | 60.75  | 0.19   | Peak    | 5446.800  | 60.69  | 74.00  | -13.31 | 60.42 | 0.27   | Peak    |
| 10460.000  | 49.31  | 68.20  | -18.89 | 39.98  | 9.33   | Peak    | 10460.000 | 50.22  | 68.20  | -17.98 | 40.89 | 9.33   | Peak    |
| 15690.000  | 45.35  | 54.00  | -8.65  | 31.05  | 14.30  | Average | 15690.000 | 45.16  | 54.00  | -8.84  | 30.86 | 14.30  | Average |
| 15690.000  | 59.38  | 74.00  | -14.62 | 45.08  | 14.30  | Peak    | 15690.000 | 59.18  | 74.00  | -14.82 | 44.88 | 14.30  | Peak    |

**Above 1G (1 GHz-40 GHz) in UNII-2a:****802.11a mode:**

| Low CH     |        |            |            |            |        |         |           |        |            |            |            |        |         |
|------------|--------|------------|------------|------------|--------|---------|-----------|--------|------------|------------|------------|--------|---------|
| Horizontal |        |            |            |            |        |         | Vertical  |        |            |            |            |        |         |
| Freq       | Level  | Limit Line | Over Limit | Read Level | Factor | Remark  | Freq      | Level  | Limit Line | Over Limit | Read Level | Factor | Remark  |
| MHz        | dBuV/m | dBuV/m     | dB         | dBuV       | dB/m   |         | MHz       | dBuV/m | dBuV/m     | dB         | dBuV       | dB/m   |         |
| 5141.600   | 46.66  | 54.00      | -7.34      | 46.28      | 0.38   | Average | 5089.200  | 46.73  | 54.00      | -7.27      | 46.20      | 0.53   | Average |
| 5141.600   | 60.23  | 74.00      | -13.77     | 59.85      | 0.38   | Peak    | 5089.200  | 61.27  | 74.00      | -12.73     | 60.74      | 0.53   | Peak    |
| 5265.200   | 96.92  |            |            | 96.76      | 0.16   | Average | 5257.600  | 85.82  |            |            | 85.65      | 0.17   | Average |
| 5265.200   | 106.96 |            |            | 106.80     | 0.16   | Peak    | 5257.600  | 96.53  |            |            | 96.36      | 0.17   | Peak    |
| 5448.000   | 46.59  | 54.00      | -7.41      | 46.32      | 0.27   | Average | 5359.200  | 46.57  | 54.00      | -7.43      | 46.37      | 0.20   | Average |
| 5448.000   | 62.17  | 74.00      | -11.83     | 61.90      | 0.27   | Peak    | 5359.200  | 60.41  | 74.00      | -13.59     | 60.21      | 0.20   | Peak    |
| 7013.300   | 58.83  | 68.20      | -9.37      | 54.62      | 4.21   | Peak    | 7013.300  | 54.15  | 68.20      | -14.05     | 49.94      | 4.21   | Peak    |
| 10520.000  | 51.14  | 68.20      | -17.06     | 42.30      | 8.84   | Peak    | 10520.000 | 50.03  | 68.20      | -18.17     | 41.19      | 8.84   | Peak    |
| 15780.000  | 45.59  | 54.00      | -8.41      | 31.56      | 14.03  | Average | 15780.000 | 46.33  | 54.00      | -7.67      | 32.30      | 14.03  | Average |
| 15780.000  | 59.15  | 74.00      | -14.85     | 45.12      | 14.03  | Peak    | 15780.000 | 59.45  | 74.00      | -14.55     | 45.42      | 14.03  | Peak    |

| Middle CH  |        |            |            |            |        |         |           |        |            |            |            |        |         |
|------------|--------|------------|------------|------------|--------|---------|-----------|--------|------------|------------|------------|--------|---------|
| Horizontal |        |            |            |            |        |         | Vertical  |        |            |            |            |        |         |
| Freq       | Level  | Limit Line | Over Limit | Read Level | Factor | Remark  | Freq      | Level  | Limit Line | Over Limit | Read Level | Factor | Remark  |
| MHz        | dBuV/m | dBuV/m     | dB         | dBuV       | dB/m   |         | MHz       | dBuV/m | dBuV/m     | dB         | dBuV       | dB/m   |         |
| 5145.600   | 46.54  | 54.00      | -7.46      | 46.18      | 0.36   | Average | 5113.200  | 46.51  | 54.00      | -7.49      | 46.06      | 0.45   | Average |
| 5145.600   | 60.40  | 74.00      | -13.60     | 60.04      | 0.36   | Peak    | 5113.200  | 60.70  | 74.00      | -13.30     | 60.25      | 0.45   | Peak    |
| 5302.400   | 97.46  |            |            | 97.25      | 0.21   | Average | 5299.600  | 87.53  |            |            | 87.32      | 0.21   | Average |
| 5302.400   | 107.82 |            |            | 107.61     | 0.21   | Peak    | 5299.600  | 97.70  |            |            | 97.49      | 0.21   | Peak    |
| 5431.600   | 46.58  | 54.00      | -7.42      | 46.38      | 0.20   | Average | 5410.800  | 46.37  | 54.00      | -7.63      | 46.22      | 0.15   | Average |
| 5431.600   | 61.68  | 74.00      | -12.32     | 61.48      | 0.20   | Peak    | 5410.800  | 60.74  | 74.00      | -13.26     | 60.59      | 0.15   | Peak    |
| 7066.640   | 56.48  | 68.20      | -11.72     | 51.87      | 4.61   | Peak    | 7066.640  | 53.53  | 68.20      | -14.67     | 48.92      | 4.61   | Peak    |
| 10600.000  | 36.18  | 54.00      | -17.82     | 26.90      | 9.28   | Average | 10600.000 | 36.79  | 54.00      | -17.21     | 27.51      | 9.28   | Average |
| 10600.000  | 51.27  | 74.00      | -22.73     | 41.99      | 9.28   | Peak    | 10600.000 | 50.43  | 74.00      | -23.57     | 41.15      | 9.28   | Peak    |
| 15900.000  | 44.41  | 54.00      | -9.59      | 30.56      | 13.85  | Average | 15900.000 | 45.34  | 54.00      | -8.66      | 31.49      | 13.85  | Average |
| 15900.000  | 57.72  | 74.00      | -16.28     | 43.87      | 13.85  | Peak    | 15900.000 | 57.26  | 74.00      | -16.74     | 43.41      | 13.85  | Peak    |

| High CH    |        |            |            |            |        |         |           |        |            |            |            |        |         |
|------------|--------|------------|------------|------------|--------|---------|-----------|--------|------------|------------|------------|--------|---------|
| Horizontal |        |            |            |            |        |         | Vertical  |        |            |            |            |        |         |
| Freq       | Level  | Limit Line | Over Limit | Read Level | Factor | Remark  | Freq      | Level  | Limit Line | Over Limit | Read Level | Factor | Remark  |
| MHz        | dBuV/m | dBuV/m     | dB         | dBuV       | dB/m   |         | MHz       | dBuV/m | dBuV/m     | dB         | dBuV       | dB/m   |         |
| 5317.700   | 97.87  |            |            | 97.64      | 0.23   | Average | 5317.200  | 87.40  |            |            | 87.17      | 0.23   | Average |
| 5317.700   | 108.54 |            |            | 108.31     | 0.23   | Peak    | 5317.200  | 97.94  |            |            | 97.71      | 0.23   | Peak    |
| 5351.020   | 49.76  | 54.00      | -4.24      | 49.54      | 0.22   | Average | 5370.060  | 46.62  | 54.00      | -7.38      | 46.44      | 0.18   | Average |
| 5351.020   | 68.86  | 74.00      | -5.14      | 68.64      | 0.22   | Peak    | 5370.060  | 60.63  | 74.00      | -13.37     | 60.45      | 0.18   | Peak    |
| 7093.260   | 54.73  | 68.20      | -13.47     | 49.98      | 4.75   | Peak    | 7093.260  | 54.49  | 68.20      | -13.71     | 49.69      | 4.80   | Peak    |
| 10640.000  | 37.75  | 54.00      | -16.25     | 27.85      | 9.90   | Average | 10640.000 | 37.04  | 54.00      | -16.96     | 27.14      | 9.90   | Average |
| 10640.000  | 51.10  | 74.00      | -22.90     | 41.20      | 9.90   | Peak    | 10640.000 | 51.35  | 74.00      | -22.65     | 41.45      | 9.90   | Peak    |
| 15960.000  | 44.76  | 54.00      | -9.24      | 31.11      | 13.65  | Average | 15960.000 | 45.50  | 54.00      | -8.50      | 31.85      | 13.65  | Average |
| 15960.000  | 58.66  | 74.00      | -15.34     | 45.01      | 13.65  | Peak    | 15960.000 | 58.10  | 74.00      | -15.90     | 44.45      | 13.65  | Peak    |



**802.11n HT20 mode:**

| Low CH     |        |        |        |        |        |         |           |        |        |        |       |        |         |
|------------|--------|--------|--------|--------|--------|---------|-----------|--------|--------|--------|-------|--------|---------|
| Horizontal |        |        |        |        |        |         | Vertical  |        |        |        |       |        |         |
| Freq       | Level  | Limit  | Over   | Read   | Factor | Remark  | Freq      | Level  | Limit  | Over   | Read  | Factor | Remark  |
|            |        | Line   | Limit  | Level  |        |         |           |        |        |        | Line  |        |         |
| MHz        | dBuV/m | dBuV/m | dB     | dBuV   | dB/m   |         | MHz       | dBuV/m | dBuV/m | dB     | dBuV  | dB/m   |         |
| 5116.000   | 46.89  | 54.00  | -7.11  | 46.45  | 0.44   | Average | 5108.800  | 46.84  | 54.00  | -7.16  | 46.38 | 0.46   | Average |
| 5116.000   | 60.53  | 74.00  | -13.47 | 60.09  | 0.44   | Peak    | 5108.800  | 60.73  | 74.00  | -13.27 | 60.27 | 0.46   | Peak    |
| 5262.800   | 97.10  |        |        | 96.93  | 0.17   | Average | 5257.600  | 87.01  |        |        | 86.84 | 0.17   | Average |
| 5262.800   | 107.71 |        |        | 107.54 | 0.17   | Peak    | 5257.600  | 97.50  |        |        | 97.33 | 0.17   | Peak    |
| 5444.400   | 46.76  | 54.00  | -7.24  | 46.51  | 0.25   | Average | 5368.400  | 46.81  | 54.00  | -7.19  | 46.62 | 0.19   | Average |
| 5444.400   | 60.62  | 74.00  | -13.38 | 60.37  | 0.25   | Peak    | 5368.400  | 60.79  | 74.00  | -13.21 | 60.60 | 0.19   | Peak    |
| 7013.300   | 61.45  | 68.20  | -6.75  | 57.24  | 4.21   | Peak    | 7013.300  | 55.47  | 68.20  | -12.73 | 51.26 | 4.21   | Peak    |
| 10520.000  | 50.50  | 68.20  | -17.70 | 41.66  | 8.84   | Peak    | 10520.000 | 51.19  | 68.20  | -17.01 | 42.35 | 8.84   | Peak    |
| 15780.000  | 45.59  | 54.00  | -8.41  | 31.56  | 14.03  | Average | 15780.000 | 45.48  | 54.00  | -8.52  | 31.45 | 14.03  | Average |
| 15780.000  | 60.48  | 74.00  | -13.52 | 46.45  | 14.03  | Peak    | 15780.000 | 59.53  | 74.00  | -14.47 | 45.50 | 14.03  | Peak    |

| Middle CH  |        |               |               |               |        |         |           |        |               |               |               |        |         |
|------------|--------|---------------|---------------|---------------|--------|---------|-----------|--------|---------------|---------------|---------------|--------|---------|
| Horizontal |        |               |               |               |        |         | Vertical  |        |               |               |               |        |         |
| Freq       | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | Factor | Remark  | Freq      | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | Factor | Remark  |
| MHz        | dBuV/m | dBuV/m        | dB            | dBuV          | dB/m   |         | MHz       | dBuV/m | dBuV/m        | dB            | dBuV          | dB/m   |         |
| 5103.200   | 46.88  | 54.00         | -7.12         | 46.41         | 0.47   | Average | 5144.800  | 46.73  | 54.00         | -7.27         | 46.37         | 0.36   | Average |
| 5103.200   | 60.58  | 74.00         | -13.42        | 60.11         | 0.47   | Peak    | 5144.800  | 60.47  | 74.00         | -13.53        | 60.11         | 0.36   | Peak    |
| 5298.400   | 97.73  |               |               | 97.54         | 0.19   | Average | 5303.200  | 87.08  |               |               | 86.86         | 0.22   | Average |
| 5298.400   | 107.48 |               |               | 107.29        | 0.19   | Peak    | 5303.200  | 97.48  |               |               | 97.26         | 0.22   | Peak    |
| 5447.600   | 46.92  | 54.00         | -7.08         | 46.65         | 0.27   | Average | 5446.400  | 46.77  | 54.00         | -7.23         | 46.50         | 0.27   | Average |
| 5447.600   | 61.02  | 74.00         | -12.98        | 60.75         | 0.27   | Peak    | 5446.400  | 60.55  | 74.00         | -13.45        | 60.28         | 0.27   | Peak    |
| 7066.600   | 59.74  | 68.20         | -8.46         | 55.13         | 4.61   | Peak    | 7066.600  | 54.17  | 68.20         | -14.03        | 49.56         | 4.61   | Peak    |
| 10600.000  | 36.89  | 54.00         | -17.11        | 27.61         | 9.28   | Average | 10600.000 | 36.91  | 54.00         | -17.09        | 27.63         | 9.28   | Average |
| 10600.000  | 51.38  | 74.00         | -22.62        | 42.10         | 9.28   | Peak    | 10600.000 | 51.74  | 74.00         | -22.26        | 42.46         | 9.28   | Peak    |
| 15900.000  | 45.20  | 54.00         | -8.80         | 31.35         | 13.85  | Average | 15900.000 | 45.06  | 54.00         | -8.94         | 31.21         | 13.85  | Average |
| 15900.000  | 57.91  | 74.00         | -16.09        | 44.06         | 13.85  | Peak    | 15900.000 | 58.05  | 74.00         | -15.95        | 44.20         | 13.85  | Peak    |

| High CH    |        |        |        |        |        |         |           |        |        |        |       |        |         |
|------------|--------|--------|--------|--------|--------|---------|-----------|--------|--------|--------|-------|--------|---------|
| Horizontal |        |        |        |        |        |         | Vertical  |        |        |        |       |        |         |
|            |        | Limit  | Over   | Read   |        |         |           |        | Limit  | Over   | Read  |        |         |
| Freq       | Level  | Line   | Limit  | Level  | Factor | Remark  | Freq      | Level  | Line   | Limit  | Level | Factor | Remark  |
| MHz        | dBuV/m | dBuV/m | dB     | dBuV   | dB/m   |         | MHz       | dBuV/m | dBuV/m | dB     | dBuV  | dB/m   |         |
| 5317.840   | 97.43  |        |        | 97.20  | 0.23   | Average | 5318.260  | 86.88  |        |        | 86.65 | 0.23   | Average |
| 5317.840   | 107.99 |        |        | 107.76 | 0.23   | Peak    | 5318.260  | 97.77  |        |        | 97.54 | 0.23   | Peak    |
| 5350.600   | 51.86  | 54.00  | -2.14  | 51.64  | 0.22   | Average | 5350.320  | 47.07  | 54.00  | -6.93  | 46.85 | 0.22   | Average |
| 5350.600   | 69.48  | 74.00  | -4.52  | 69.26  | 0.22   | Peak    | 5350.320  | 61.68  | 74.00  | -12.32 | 61.46 | 0.22   | Peak    |
| 7093.300   | 57.38  | 68.20  | -10.82 | 52.63  | 4.75   | Peak    | 7093.300  | 53.60  | 68.20  | -14.60 | 48.85 | 4.75   | Peak    |
| 10640.000  | 38.33  | 54.00  | -15.67 | 28.43  | 9.90   | Average | 10640.000 | 38.04  | 54.00  | -15.96 | 28.14 | 9.90   | Average |
| 10640.000  | 51.05  | 74.00  | -22.95 | 41.15  | 9.90   | Peak    | 10640.000 | 53.20  | 74.00  | -20.80 | 43.30 | 9.90   | Peak    |
| 15960.000  | 44.90  | 54.00  | -9.10  | 31.25  | 13.65  | Average | 15960.000 | 44.06  | 54.00  | -9.94  | 30.41 | 13.65  | Average |
| 15960.000  | 58.15  | 74.00  | -15.85 | 44.50  | 13.65  | Peak    | 15960.000 | 58.65  | 74.00  | -15.35 | 45.00 | 13.65  | Peak    |



**802.11n HT40 mode:**

| Low CH     |        |            |            |            |        |         |           |        |            |            |            |        |         |
|------------|--------|------------|------------|------------|--------|---------|-----------|--------|------------|------------|------------|--------|---------|
| Horizontal |        |            |            |            |        |         | Vertical  |        |            |            |            |        |         |
| Freq       | Level  | Limit Line | Over Limit | Read Level | Factor | Remark  | Freq      | Level  | Limit Line | Over Limit | Read Level | Factor | Remark  |
| MHz        | dBuV/m | dBuV/m     | dB         | dBuV       | dB/m   |         | MHz       | dBuV/m | dBuV/m     | dB         | dBuV       | dB/m   |         |
| 5113.200   | 46.85  | 54.00      | -7.15      | 46.40      | 0.45   | Average | 5120.800  | 46.75  | 54.00      | -7.25      | 46.32      | 0.43   | Average |
| 5113.200   | 60.97  | 74.00      | -13.03     | 60.52      | 0.45   | Peak    | 5120.800  | 60.46  | 74.00      | -13.54     | 60.03      | 0.43   | Peak    |
| 5264.800   | 91.59  |            |            | 91.43      | 0.16   | Average | 5287.600  | 81.35  |            |            | 81.18      | 0.17   | Average |
| 5264.800   | 102.41 |            |            | 102.25     | 0.16   | Peak    | 5287.600  | 91.07  |            |            | 90.90      | 0.17   | Peak    |
| 5427.600   | 47.05  | 54.00      | -6.95      | 46.87      | 0.18   | Average | 5432.400  | 46.74  | 54.00      | -7.26      | 46.54      | 0.20   | Average |
| 5427.600   | 61.31  | 74.00      | -12.69     | 61.13      | 0.18   | Peak    | 5432.400  | 61.06  | 74.00      | -12.94     | 60.86      | 0.20   | Peak    |
| 10540.000  | 50.53  | 68.20      | -17.67     | 41.76      | 8.77   | Peak    | 10540.000 | 49.31  | 68.20      | -18.89     | 40.54      | 8.77   | Peak    |
| 15810.000  | 45.25  | 54.00      | -8.75      | 31.32      | 13.93  | Average | 15810.000 | 45.59  | 54.00      | -8.41      | 31.66      | 13.93  | Average |
| 15810.000  | 58.39  | 74.00      | -15.61     | 44.46      | 13.93  | Peak    | 15810.000 | 58.53  | 74.00      | -15.47     | 44.60      | 13.93  | Peak    |

| High CH    |        |            |            |            |        |         |           |        |            |            |            |        |         |
|------------|--------|------------|------------|------------|--------|---------|-----------|--------|------------|------------|------------|--------|---------|
| Horizontal |        |            |            |            |        |         | Vertical  |        |            |            |            |        |         |
| Freq       | Level  | Limit Line | Over Limit | Read Level | Factor | Remark  | Freq      | Level  | Limit Line | Over Limit | Read Level | Factor | Remark  |
| MHz        | dBuV/m | dBuV/m     | dB         | dBuV       | dB/m   |         | MHz       | dBuV/m | dBuV/m     | dB         | dBuV       | dB/m   |         |
| 5315.440   | 90.05  |            |            | 89.82      | 0.23   | Average | 5304.400  | 81.03  |            |            | 80.82      | 0.21   | Average |
| 5315.440   | 101.43 |            |            | 101.20     | 0.23   | Peak    | 5304.400  | 91.72  |            |            | 91.51      | 0.21   | Peak    |
| 5350.160   | 53.62  | 54.00      | -0.38      | 53.40      | 0.22   | Average | 5350.160  | 48.20  | 54.00      | -5.80      | 47.98      | 0.22   | Average |
| 5350.160   | 71.25  | 74.00      | -2.75      | 71.03      | 0.22   | Peak    | 5350.160  | 63.96  | 74.00      | -10.04     | 63.74      | 0.22   | Peak    |
| 10620.000  | 37.19  | 54.00      | -16.81     | 27.51      | 9.68   | Average | 10620.000 | 37.85  | 54.00      | -16.15     | 28.14      | 9.71   | Average |
| 10620.000  | 50.25  | 74.00      | -23.75     | 40.57      | 9.68   | Peak    | 10620.000 | 50.49  | 74.00      | -23.51     | 40.78      | 9.71   | Peak    |
| 15930.000  | 44.81  | 54.00      | -9.19      | 31.05      | 13.76  | Average | 15930.000 | 44.87  | 54.00      | -9.13      | 31.12      | 13.75  | Average |
| 15930.000  | 58.44  | 74.00      | -15.56     | 44.68      | 13.76  | Peak    | 15930.000 | 57.94  | 74.00      | -16.06     | 44.19      | 13.75  | Peak    |

**Above 1G (1 GHz-40 GHz) in UNII-2c:****802.11a mode:**

| Low CH     |        |            |            |            |        |         |           |        |            |            |            |        |         |
|------------|--------|------------|------------|------------|--------|---------|-----------|--------|------------|------------|------------|--------|---------|
| Horizontal |        |            |            |            |        |         | Vertical  |        |            |            |            |        |         |
| Freq       | Level  | Limit Line | Over Limit | Read Level | Factor | Remark  | Freq      | Level  | Limit Line | Over Limit | Read Level | Factor | Remark  |
| MHz        | dBuV/m | dBuV/m     | dB         | dBuV       | dB/m   |         | MHz       | dBuV/m | dBuV/m     | dB         | dBuV       | dB/m   |         |
| 5456.320   | 49.84  | 54.00      | -4.16      | 49.52      | 0.32   | Average | 5459.180  | 47.17  | 54.00      | -6.83      | 46.84      | 0.33   | Average |
| 5456.320   | 68.20  | 74.00      | -5.80      | 67.88      | 0.32   | Peak    | 5459.180  | 61.74  | 74.00      | -12.26     | 61.41      | 0.33   | Peak    |
| 5502.300   | 97.18  |            |            | 96.67      | 0.51   | Average | 5502.300  | 90.31  |            |            | 89.80      | 0.51   | Average |
| 5502.300   | 107.87 |            |            | 107.36     | 0.51   | Peak    | 5502.300  | 101.11 |            |            | 100.60     | 0.51   | Peak    |
| 7333.300   | 49.85  | 54.00      | -4.15      | 44.08      | 5.77   | Average | 7333.300  | 47.48  | 54.00      | -6.52      | 41.76      | 5.72   | Average |
| 7333.300   | 54.55  | 74.00      | -19.45     | 48.83      | 5.72   | Peak    | 7333.300  | 53.91  | 74.00      | -20.09     | 48.14      | 5.77   | Peak    |
| 11000.000  | 37.07  | 54.00      | -16.93     | 27.04      | 10.03  | Average | 11000.000 | 36.83  | 54.00      | -17.17     | 26.80      | 10.03  | Average |
| 11000.000  | 50.09  | 74.00      | -23.91     | 40.06      | 10.03  | Peak    | 11000.000 | 51.20  | 74.00      | -22.80     | 41.17      | 10.03  | Peak    |
| 16500.000  | 57.46  | 68.20      | -10.74     | 42.71      | 14.75  | Peak    | 16500.000 | 56.29  | 68.20      | -11.91     | 41.54      | 14.75  | Peak    |

| Middle CH  |        |            |            |            |        |         |           |        |            |            |            |        |         |
|------------|--------|------------|------------|------------|--------|---------|-----------|--------|------------|------------|------------|--------|---------|
| Horizontal |        |            |            |            |        |         | Vertical  |        |            |            |            |        |         |
| Freq       | Level  | Limit Line | Over Limit | Read Level | Factor | Remark  | Freq      | Level  | Limit Line | Over Limit | Read Level | Factor | Remark  |
| MHz        | dBuV/m | dBuV/m     | dB         | dBuV       | dB/m   |         | MHz       | dBuV/m | dBuV/m     | dB         | dBuV       | dB/m   |         |
| 5447.500   | 46.87  | 54.00      | -7.13      | 46.60      | 0.27   | Average | 5450.540  | 46.80  | 54.00      | -7.20      | 46.51      | 0.29   | Average |
| 5447.500   | 61.27  | 74.00      | -12.73     | 61.00      | 0.27   | Peak    | 5450.540  | 61.26  | 74.00      | -12.74     | 60.97      | 0.29   | Peak    |
| 5582.400   | 97.44  |            |            | 96.70      | 0.74   | Average | 5577.460  | 90.94  |            |            | 90.21      | 0.73   | Average |
| 5582.400   | 107.91 |            |            | 107.17     | 0.74   | Peak    | 5577.460  | 101.13 |            |            | 100.40     | 0.73   | Peak    |
| 5756.060   | 62.68  | 68.20      | -5.52      | 61.39      | 1.29   | Peak    | 5767.840  | 62.63  | 68.20      | -5.57      | 61.32      | 1.31   | Peak    |
| 7440.000   | 50.48  | 54.00      | -3.52      | 44.43      | 6.05   | Average | 7440.000  | 48.03  | 54.00      | -5.97      | 41.98      | 6.05   | Average |
| 7440.000   | 54.62  | 74.00      | -19.38     | 48.57      | 6.05   | Peak    | 7440.000  | 54.04  | 74.00      | -19.96     | 47.98      | 6.06   | Peak    |
| 11160.000  | 37.37  | 54.00      | -16.63     | 27.14      | 10.23  | Average | 11160.000 | 37.15  | 54.00      | -16.85     | 26.92      | 10.23  | Average |
| 11160.000  | 50.56  | 74.00      | -23.44     | 40.33      | 10.23  | Peak    | 11160.000 | 50.89  | 74.00      | -23.11     | 40.66      | 10.23  | Peak    |
| 16740.000  | 58.78  | 68.20      | -9.42      | 43.24      | 15.54  | Peak    | 16740.000 | 57.76  | 68.20      | -10.44     | 42.21      | 15.55  | Peak    |

| High CH    |        |            |            |            |        |         |           |        |            |            |            |        |         |
|------------|--------|------------|------------|------------|--------|---------|-----------|--------|------------|------------|------------|--------|---------|
| Horizontal |        |            |            |            |        |         | Vertical  |        |            |            |            |        |         |
| Freq       | Level  | Limit Line | Over Limit | Read Level | Factor | Remark  | Freq      | Level  | Limit Line | Over Limit | Read Level | Factor | Remark  |
| MHz        | dBuV/m | dBuV/m     | dB         | dBuV       | dB/m   |         | MHz       | dBuV/m | dBuV/m     | dB         | dBuV       | dB/m   |         |
| 5702.100   | 93.26  |            |            | 91.94      | 1.32   | Average | 5701.440  | 85.99  |            |            | 84.67      | 1.32   | Average |
| 5702.100   | 104.09 |            |            | 102.77     | 1.32   | Peak    | 5701.440  | 96.60  |            |            | 95.28      | 1.32   | Peak    |
| 5728.280   | 67.37  | 68.20      | -0.83      | 66.07      | 1.30   | Peak    | 5781.850  | 63.37  | 68.20      | -4.83      | 62.04      | 1.33   | Peak    |
| 11400.000  | 38.34  | 54.00      | -15.66     | 27.60      | 10.74  | Average | 11400.000 | 38.01  | 54.00      | -15.99     | 27.27      | 10.74  | Average |
| 11400.000  | 51.36  | 74.00      | -22.64     | 40.62      | 10.74  | Peak    | 11400.000 | 50.96  | 74.00      | -23.04     | 40.22      | 10.74  | Peak    |
| 17100.000  | 58.29  | 68.20      | -9.91      | 41.76      | 16.53  | Peak    | 17100.000 | 58.45  | 68.20      | -9.75      | 41.92      | 16.53  | Peak    |

**802.11n HT20 mode:**

| Low CH     |        |               |               |               |        |         |           |        |               |               |               |        |         |
|------------|--------|---------------|---------------|---------------|--------|---------|-----------|--------|---------------|---------------|---------------|--------|---------|
| Horizontal |        |               |               |               |        |         | Vertical  |        |               |               |               |        |         |
| Freq       | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | Factor | Remark  | Freq      | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | Factor | Remark  |
| MHz        | dBuV/m | dBuV/m        | dB            | dBuV          | dB/m   |         | MHz       | dBuV/m | dBuV/m        | dB            | dBuV          | dB/m   |         |
| 5456.100   | 51.91  | 54.00         | -2.09         | 51.59         | 0.32   | Average | 5459.840  | 48.29  | 54.00         | -5.71         | 47.96         | 0.33   | Average |
| 5456.100   | 70.23  | 74.00         | -3.77         | 69.91         | 0.32   | Peak    | 5459.840  | 64.71  | 74.00         | -9.29         | 64.38         | 0.33   | Peak    |
| 5501.750   | 97.68  |               |               | 97.17         | 0.51   | Average | 5501.420  | 91.44  |               |               | 90.93         | 0.51   | Average |
| 5501.750   | 108.02 |               |               | 107.51        | 0.51   | Peak    | 5501.420  | 102.27 |               |               | 101.76        | 0.51   | Peak    |
| 7333.300   | 50.35  | 54.00         | -3.65         | 44.63         | 5.72   | Average | 7333.300  | 47.76  | 54.00         | -6.24         | 42.04         | 5.72   | Average |
| 7333.300   | 57.92  | 74.00         | -16.08        | 52.20         | 5.72   | Peak    | 7333.300  | 55.16  | 74.00         | -18.84        | 49.44         | 5.72   | Peak    |
| 11000.000  | 37.41  | 54.00         | -16.59        | 27.38         | 10.03  | Average | 11000.000 | 38.16  | 54.00         | -15.84        | 28.13         | 10.03  | Average |
| 11000.000  | 50.67  | 74.00         | -23.33        | 40.64         | 10.03  | Peak    | 11000.000 | 51.18  | 74.00         | -22.82        | 41.15         | 10.03  | Peak    |
| 16500.000  | 56.73  | 68.20         | -11.47        | 41.98         | 14.75  | Peak    | 16500.000 | 57.87  | 68.20         | -10.33        | 43.12         | 14.75  | Peak    |

| Middle CH  |        |               |               |               |        |         |           |        |               |               |               |        |         |
|------------|--------|---------------|---------------|---------------|--------|---------|-----------|--------|---------------|---------------|---------------|--------|---------|
| Horizontal |        |               |               |               |        |         | Vertical  |        |               |               |               |        |         |
| Freq       | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | Factor | Remark  | Freq      | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | Factor | Remark  |
| MHz        | dBuV/m | dBuV/m        | dB            | dBuV          | dB/m   |         | MHz       | dBuV/m | dBuV/m        | dB            | dBuV          | dB/m   |         |
| 5411.020   | 46.92  | 54.00         | -7.08         | 46.76         | 0.16   | Average | 5420.140  | 46.93  | 54.00         | -7.07         | 46.77         | 0.16   | Average |
| 5411.020   | 60.45  | 74.00         | -13.55        | 60.29         | 0.16   | Peak    | 5420.140  | 60.45  | 74.00         | -13.55        | 60.29         | 0.16   | Peak    |
| 5578.220   | 97.60  |               |               | 96.86         | 0.74   | Average | 5578.980  | 92.26  |               |               | 91.52         | 0.74   | Average |
| 5578.220   | 108.09 |               |               | 107.35        | 0.74   | Peak    | 5578.980  | 102.12 |               |               | 101.38        | 0.74   | Peak    |
| 5738.960   | 62.64  | 68.20         | -5.56         | 61.37         | 1.27   | Peak    | 5763.280  | 62.40  | 68.20         | -5.80         | 61.10         | 1.30   | Peak    |
| 7440.000   | 51.46  | 54.00         | -2.54         | 45.41         | 6.05   | Average | 7440.000  | 49.68  | 54.00         | -4.32         | 43.62         | 6.06   | Average |
| 7440.000   | 58.00  | 74.00         | -16.00        | 51.95         | 6.05   | Peak    | 7440.000  | 55.33  | 74.00         | -18.67        | 49.28         | 6.05   | Peak    |
| 11160.000  | 37.87  | 54.00         | -16.13        | 27.64         | 10.23  | Average | 11160.000 | 37.94  | 54.00         | -16.06        | 27.71         | 10.23  | Average |
| 11160.000  | 50.30  | 74.00         | -23.70        | 40.07         | 10.23  | Peak    | 11160.000 | 50.85  | 74.00         | -23.15        | 40.62         | 10.23  | Peak    |
| 16740.000  | 58.69  | 68.20         | -9.51         | 43.15         | 15.54  | Peak    | 16740.000 | 57.50  | 68.20         | -10.70        | 41.96         | 15.54  | Peak    |

| High CH    |        |               |               |               |        |         |           |        |               |               |               |        |         |
|------------|--------|---------------|---------------|---------------|--------|---------|-----------|--------|---------------|---------------|---------------|--------|---------|
| Horizontal |        |               |               |               |        |         | Vertical  |        |               |               |               |        |         |
| Freq       | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | Factor | Remark  | Freq      | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | Factor | Remark  |
| MHz        | dBuV/m | dBuV/m        | dB            | dBuV          | dB/m   |         | MHz       | dBuV/m | dBuV/m        | dB            | dBuV          | dB/m   |         |
| 5701.440   | 91.96  |               |               | 90.64         | 1.32   | Average | 5701.440  | 86.20  |               |               | 84.88         | 1.32   | Average |
| 5701.440   | 103.04 |               |               | 101.72        | 1.32   | Peak    | 5701.440  | 97.08  |               |               | 95.76         | 1.32   | Peak    |
| 5725.750   | 67.27  | 68.20         | -0.93         | 65.97         | 1.30   | Peak    | 5725.420  | 64.51  | 68.20         | -3.69         | 63.21         | 1.30   | Peak    |
| 111400.000 | 38.21  | 54.00         | -15.79        | 27.47         | 10.74  | Average | 11400.000 | 38.65  | 54.00         | -15.35        | 27.91         | 10.74  | Average |
| 11400.000  | 52.48  | 74.00         | -21.52        | 41.74         | 10.74  | Peak    | 11400.000 | 51.71  | 74.00         | -22.29        | 40.97         | 10.74  | Peak    |
| 117100.000 | 58.57  | 68.20         | -9.63         | 42.04         | 16.53  | Peak    | 17100.000 | 57.69  | 68.20         | -10.51        | 41.16         | 16.53  | Peak    |

**802.11n HT40 mode:**

| Low CH     |        |               |               |               |        |         |           |        |               |               |               |        |         |
|------------|--------|---------------|---------------|---------------|--------|---------|-----------|--------|---------------|---------------|---------------|--------|---------|
| Horizontal |        |               |               |               |        |         | Vertical  |        |               |               |               |        |         |
| Freq       | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | Factor | Remark  | Freq      | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | Factor | Remark  |
| MHz        | dBuV/m | dBuV/m        | dB            | dBuV          | dB/m   |         | MHz       | dBuV/m | dBuV/m        | dB            | dBuV          | dB/m   |         |
| 5459.670   | 53.57  | 54.00         | -0.43         | 53.24         | 0.33   | Average | 5459.800  | 49.98  | 54.00         | -4.02         | 49.65         | 0.33   | Average |
| 5459.670   | 72.01  | 74.00         | -1.99         | 71.68         | 0.33   | Peak    | 5459.800  | 67.03  | 74.00         | -6.97         | 66.70         | 0.33   | Peak    |
| 5513.620   | 90.96  |               |               | 90.42         | 0.54   | Average | 5515.570  | 85.03  |               |               | 84.49         | 0.54   | Average |
| 5513.620   | 102.49 |               |               | 101.95        | 0.54   | Peak    | 5515.570  | 96.37  |               |               | 95.83         | 0.54   | Peak    |
| 11020.000  | 37.29  | 54.00         | -16.71        | 27.16         | 10.13  | Average | 11020.000 | 37.42  | 54.00         | -16.58        | 27.29         | 10.13  | Average |
| 11020.000  | 50.87  | 74.00         | -23.13        | 40.74         | 10.13  | Peak    | 11020.000 | 49.57  | 74.00         | -24.43        | 39.44         | 10.13  | Peak    |
| 16530.000  | 55.94  | 68.20         | -12.26        | 41.11         | 14.83  | Peak    | 16530.000 | 55.61  | 68.20         | -12.59        | 40.78         | 14.83  | Peak    |

| Middle CH  |        |               |               |               |        |         |           |        |               |               |               |        |         |
|------------|--------|---------------|---------------|---------------|--------|---------|-----------|--------|---------------|---------------|---------------|--------|---------|
| Horizontal |        |               |               |               |        |         | Vertical  |        |               |               |               |        |         |
| Freq       | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | Factor | Remark  | Freq      | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | Factor | Remark  |
| MHz        | dBuV/m | dBuV/m        | dB            | dBuV          | dB/m   |         | MHz       | dBuV/m | dBuV/m        | dB            | dBuV          | dB/m   |         |
| 5450.920   | 47.39  | 54.00         | -6.61         | 47.10         | 0.29   | Average | 5459.280  | 47.04  | 54.00         | -6.96         | 46.71         | 0.33   | Average |
| 5450.920   | 60.84  | 74.00         | -13.16        | 60.55         | 0.29   | Peak    | 5459.280  | 60.40  | 74.00         | -13.60        | 60.07         | 0.33   | Peak    |
| 5553.900   | 92.31  |               |               | 91.65         | 0.66   | Average | 5544.780  | 87.06  |               |               | 86.43         | 0.63   | Average |
| 5553.900   | 103.15 |               |               | 102.49        | 0.66   | Peak    | 5544.780  | 98.39  |               |               | 97.76         | 0.63   | Peak    |
| 5748.840   | 62.73  | 68.20         | -5.47         | 61.46         | 1.27   | Peak    | 5768.220  | 62.56  | 68.20         | -5.64         | 61.25         | 1.31   | Peak    |
| 11100.000  | 37.58  | 54.00         | -16.42        | 27.21         | 10.37  | Average | 11100.000 | 37.84  | 54.00         | -16.16        | 27.47         | 10.37  | Average |
| 11100.000  | 50.79  | 74.00         | -23.21        | 40.42         | 10.37  | Peak    | 11100.000 | 50.86  | 74.00         | -23.14        | 40.49         | 10.37  | Peak    |
| 16650.000  | 58.11  | 68.20         | -10.09        | 43.08         | 15.03  | Peak    | 16650.000 | 58.94  | 68.20         | -9.26         | 43.91         | 15.03  | Peak    |

| High CH    |        |               |               |               |        |         |           |        |               |               |               |        |         |
|------------|--------|---------------|---------------|---------------|--------|---------|-----------|--------|---------------|---------------|---------------|--------|---------|
| Horizontal |        |               |               |               |        |         | Vertical  |        |               |               |               |        |         |
| Freq       | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | Factor | Remark  | Freq      | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | Factor | Remark  |
| MHz        | dBuV/m | dBuV/m        | dB            | dBuV          | dB/m   |         | MHz       | dBuV/m | dBuV/m        | dB            | dBuV          | dB/m   |         |
| 5675.650   | 91.46  |               |               | 90.27         | 1.19   | Average | 5652.700  | 85.16  |               |               | 84.13         | 1.03   | Average |
| 5675.650   | 102.56 |               |               | 101.37        | 1.19   | Peak    | 5652.700  | 96.05  |               |               | 95.02         | 1.03   | Peak    |
| 5727.850   | 67.70  | 68.20         | -0.50         | 66.41         | 1.29   | Peak    | 5728.300  | 62.96  | 68.20         | -5.24         | 61.66         | 1.30   | Peak    |
| 11510.000  | 38.09  | 54.00         | -15.91        | 27.36         | 10.73  | Average | 11340.000 | 37.84  | 54.00         | -16.16        | 27.38         | 10.46  | Average |
| 11510.000  | 50.55  | 74.00         | -23.45        | 39.82         | 10.73  | Peak    | 11340.000 | 50.34  | 74.00         | -23.66        | 39.88         | 10.46  | Peak    |
| 17010.000  | 57.53  | 68.20         | -10.67        | 41.93         | 15.60  | Peak    | 17010.000 | 57.02  | 68.20         | -11.18        | 41.42         | 15.60  | Peak    |

**Above 1G (1 GHz-40 GHz) in UNII-3:**

**802.11a mode:**

| Low CH     |        |            |            |            |        |         |           |        |            |            |            |        |         |
|------------|--------|------------|------------|------------|--------|---------|-----------|--------|------------|------------|------------|--------|---------|
| Horizontal |        |            |            |            |        |         | Vertical  |        |            |            |            |        |         |
| Freq       | Level  | Limit Line | Over Limit | Read Level | Factor | Remark  | Freq      | Level  | Limit Line | Over Limit | Read Level | Factor | Remark  |
| MHz        | dBuV/m | dBuV/m     | dB         | dBuV       | dB/m   |         | MHz       | dBuV/m | dBuV/m     | dB         | dBuV       | dB/m   |         |
| 5644.200   | 61.41  | 68.20      | -6.79      | 60.43      | 0.98   | Peak    | 5642.400  | 61.44  | 68.20      | -6.76      | 60.47      | 0.97   | Peak    |
| 5695.680   | 62.11  | 102.02     | -39.91     | 60.80      | 1.31   | Peak    | 5666.880  | 62.41  | 80.73      | -18.32     | 61.27      | 1.14   | Peak    |
| 5719.080   | 78.68  | 110.54     | -31.86     | 77.38      | 1.30   | Peak    | 5719.080  | 71.39  | 110.54     | -39.15     | 70.09      | 1.30   | Peak    |
| 5747.880   | 108.91 |            |            | 107.63     | 1.28   | Peak    | 5747.880  | 100.63 |            |            | 99.35      | 1.28   | Peak    |
| 5860.920   | 63.67  | 109.14     | -45.47     | 61.71      | 1.96   | Peak    | 5863.440  | 63.78  | 108.43     | -44.65     | 61.80      | 1.98   | Peak    |
| 5917.800   | 65.27  | 73.51      | -8.24      | 62.80      | 2.47   | Peak    | 5891.880  | 64.58  | 92.67      | -28.09     | 62.26      | 2.32   | Peak    |
| 5945.160   | 63.57  | 68.20      | -4.63      | 61.10      | 2.47   | Peak    | 5964.600  | 64.19  | 68.20      | -4.01      | 61.76      | 2.43   | Peak    |
| 11490.000  | 37.41  | 54.00      | -16.59     | 26.71      | 10.70  | Average | 11490.000 | 37.47  | 54.00      | -16.53     | 26.77      | 10.70  | Average |
| 11490.000  | 51.43  | 74.00      | -22.57     | 40.73      | 10.70  | Peak    | 11490.000 | 50.90  | 74.00      | -23.10     | 40.20      | 10.70  | Peak    |
| 17235.000  | 58.49  | 68.20      | -9.71      | 41.52      | 16.97  | Peak    | 17235.000 | 59.13  | 68.20      | -9.07      | 42.16      | 16.97  | Peak    |

| Middle CH  |        |            |            |            |        |         |           |        |            |            |            |        |         |
|------------|--------|------------|------------|------------|--------|---------|-----------|--------|------------|------------|------------|--------|---------|
| Horizontal |        |            |            |            |        |         | Vertical  |        |            |            |            |        |         |
| Freq       | Level  | Limit Line | Over Limit | Read Level | Factor | Remark  | Freq      | Level  | Limit Line | Over Limit | Read Level | Factor | Remark  |
| MHz        | dBuV/m | dBuV/m     | dB         | dBuV       | dB/m   |         | MHz       | dBuV/m | dBuV/m     | dB         | dBuV       | dB/m   |         |
| 5611.800   | 61.85  | 68.20      | -6.35      | 61.04      | 0.81   | Peak    | 5642.040  | 61.75  | 68.20      | -6.45      | 60.78      | 0.97   | Peak    |
| 5660.040   | 62.34  | 75.66      | -13.32     | 61.25      | 1.09   | Peak    | 5677.680  | 62.67  | 88.72      | -26.05     | 61.47      | 1.20   | Peak    |
| 5714.760   | 62.08  | 109.33     | -47.25     | 60.78      | 1.30   | Peak    | 5714.760  | 61.90  | 109.33     | -47.43     | 60.60      | 1.30   | Peak    |
| 5787.840   | 109.81 |            |            | 108.48     | 1.33   | Peak    | 5782.800  | 100.74 |            |            | 99.41      | 1.33   | Peak    |
| 5872.800   | 63.22  | 105.82     | -42.60     | 61.13      | 2.09   | Peak    | 5874.240  | 63.60  | 105.41     | -41.81     | 61.48      | 2.12   | Peak    |
| 5895.840   | 64.44  | 89.74      | -25.30     | 62.06      | 2.38   | Peak    | 5917.800  | 64.10  | 73.51      | -9.41      | 61.63      | 2.47   | Peak    |
| 5928.600   | 65.16  | 68.20      | -3.04      | 62.66      | 2.50   | Peak    | 5941.200  | 64.98  | 68.20      | -3.22      | 62.50      | 2.48   | Peak    |
| 11570.000  | 37.57  | 54.00      | -16.43     | 26.81      | 10.76  | Average | 11570.000 | 37.63  | 54.00      | -16.37     | 26.87      | 10.76  | Average |
| 11570.000  | 50.80  | 74.00      | -23.20     | 40.04      | 10.76  | Peak    | 11570.000 | 50.67  | 74.00      | -23.33     | 39.91      | 10.76  | Peak    |
| 17355.000  | 59.60  | 68.20      | -8.60      | 41.89      | 17.71  | Peak    | 17355.000 | 59.05  | 68.20      | -9.15      | 41.34      | 17.71  | Peak    |

| High CH    |        |            |            |            |        |         |           |        |            |            |            |        |         |
|------------|--------|------------|------------|------------|--------|---------|-----------|--------|------------|------------|------------|--------|---------|
| Horizontal |        |            |            |            |        |         | Vertical  |        |            |            |            |        |         |
| Freq       | Level  | Limit Line | Over Limit | Read Level | Factor | Remark  | Freq      | Level  | Limit Line | Over Limit | Read Level | Factor | Remark  |
| MHz        | dBuV/m | dBuV/m     | dB         | dBuV       | dB/m   |         | MHz       | dBuV/m | dBuV/m     | dB         | dBuV       | dB/m   |         |
| 5644.920   | 61.27  | 68.20      | -6.93      | 60.28      | 0.99   | Peak    | 5640.600  | 61.33  | 68.20      | -6.87      | 60.37      | 0.96   | Peak    |
| 5689.920   | 61.87  | 97.77      | -35.90     | 60.60      | 1.27   | Peak    | 5679.480  | 62.51  | 90.05      | -27.54     | 61.29      | 1.22   | Peak    |
| 5703.600   | 61.72  | 106.21     | -44.49     | 60.39      | 1.33   | Peak    | 5715.480  | 62.20  | 109.54     | -47.34     | 60.89      | 1.31   | Peak    |
| 5828.880   | 109.48 |            |            | 107.92     | 1.56   | Peak    | 5827.440  | 99.11  |            |            | 97.56      | 1.55   | Peak    |
| 5855.160   | 76.20  | 110.76     | -34.56     | 74.32      | 1.88   | Peak    | 5855.880  | 67.94  | 110.55     | -42.61     | 66.04      | 1.90   | Peak    |
| 5922.840   | 64.66  | 69.79      | -5.13      | 62.18      | 2.48   | Peak    | 5916.360  | 64.66  | 74.57      | -9.91      | 62.20      | 2.46   | Peak    |
| 5946.240   | 64.15  | 68.20      | -4.05      | 61.68      | 2.47   | Peak    | 5930.760  | 65.26  | 68.20      | -2.94      | 62.76      | 2.50   | Peak    |
| 11650.000  | 38.27  | 54.00      | -15.73     | 27.37      | 10.90  | Average | 11650.000 | 38.10  | 54.00      | -15.90     | 27.25      | 10.85  | Average |
| 11650.000  | 51.72  | 74.00      | -22.28     | 40.82      | 10.90  | Peak    | 11650.000 | 52.68  | 74.00      | -21.32     | 41.83      | 10.85  | Peak    |
| 17473.000  | 59.75  | 68.20      | -8.45      | 41.69      | 18.06  | Peak    | 17475.000 | 58.91  | 68.20      | -9.29      | 40.85      | 18.06  | Peak    |



802.11n HT20 mode:

| Low CH     |        |            |            |            |        |         |           |        |            |            |            |               |
|------------|--------|------------|------------|------------|--------|---------|-----------|--------|------------|------------|------------|---------------|
| Horizontal |        |            |            |            |        |         | Vertical  |        |            |            |            |               |
| Freq       | Level  | Limit Line | Over Limit | Read Level | Factor | Remark  | Freq      | Level  | Limit Line | Over Limit | Read Level | Factor Remark |
| MHz        | dBuV/m | dBuV/m     | dB         | dBuV       | dB/m   |         | MHz       | dBuV/m | dBuV/m     | dB         | dBuV       | dB/m          |
| 5637.000   | 61.95  | 68.20      | -6.25      | 61.01      | 0.94   | Peak    | 5640.600  | 61.84  | 68.20      | -6.36      | 60.88      | 0.96 Peak     |
| 5698.560   | 63.98  | 104.14     | -40.16     | 62.65      | 1.33   | Peak    | 5667.240  | 61.79  | 80.99      | -19.20     | 60.65      | 1.14 Peak     |
| 5719.080   | 76.73  | 110.54     | -33.81     | 75.43      | 1.30   | Peak    | 5719.080  | 68.87  | 110.54     | -41.67     | 67.57      | 1.30 Peak     |
| 5749.320   | 108.88 |            |            | 107.61     | 1.27   | Peak    | 5748.240  | 100.29 |            |            | 99.01      | 1.28 Peak     |
| 5860.200   | 63.76  | 109.34     | -45.58     | 61.82      | 1.94   | Peak    | 5855.880  | 63.42  | 110.55     | -47.13     | 61.52      | 1.90 Peak     |
| 5914.920   | 64.71  | 75.63      | -10.92     | 62.25      | 2.46   | Peak    | 5918.880  | 64.41  | 72.71      | -8.30      | 61.95      | 2.46 Peak     |
| 5935.080   | 64.71  | 68.20      | -3.49      | 62.23      | 2.48   | Peak    | 5967.120  | 64.17  | 68.20      | -4.03      | 61.73      | 2.44 Peak     |
| 11490.000  | 38.33  | 54.00      | -15.67     | 27.63      | 10.70  | Average | 11490.000 | 38.17  | 54.00      | -15.83     | 27.47      | 10.70 Average |
| 11490.000  | 51.37  | 74.00      | -22.63     | 40.67      | 10.70  | Peak    | 11490.000 | 50.55  | 74.00      | -23.45     | 39.85      | 10.70 Peak    |
| 17235.000  | 59.19  | 68.20      | -9.01      | 42.22      | 16.97  | Peak    | 17235.000 | 59.43  | 68.20      | -8.77      | 42.46      | 16.97 Peak    |

| Middle CH  |        |            |            |            |        |         |           |        |            |            |            |               |
|------------|--------|------------|------------|------------|--------|---------|-----------|--------|------------|------------|------------|---------------|
| Horizontal |        |            |            |            |        |         | Vertical  |        |            |            |            |               |
| Freq       | Level  | Limit Line | Over Limit | Read Level | Factor | Remark  | Freq      | Level  | Limit Line | Over Limit | Read Level | Factor Remark |
| MHz        | dBuV/m | dBuV/m     | dB         | dBuV       | dB/m   |         | MHz       | dBuV/m | dBuV/m     | dB         | dBuV       | dB/m          |
| 5619.360   | 61.50  | 68.20      | -6.70      | 60.66      | 0.84   | Peak    | 5643.840  | 61.10  | 68.20      | -7.10      | 60.12      | 0.98 Peak     |
| 5683.080   | 62.05  | 92.72      | -30.67     | 60.82      | 1.23   | Peak    | 5659.320  | 62.13  | 75.12      | -12.99     | 61.05      | 1.08 Peak     |
| 5713.320   | 61.86  | 108.93     | -47.07     | 60.55      | 1.31   | Peak    | 5701.440  | 61.83  | 105.60     | -43.77     | 60.51      | 1.32 Peak     |
| 5780.640   | 109.50 |            |            | 108.17     | 1.33   | Peak    | 5788.560  | 99.78  |            |            | 98.45      | 1.33 Peak     |
| 5859.480   | 63.97  | 109.54     | -45.57     | 62.04      | 1.93   | Peak    | 5869.560  | 63.85  | 106.72     | -42.87     | 61.78      | 2.07 Peak     |
| 5903.040   | 64.52  | 84.41      | -19.89     | 62.09      | 2.43   | Peak    | 5891.160  | 64.20  | 93.21      | -29.01     | 61.88      | 2.32 Peak     |
| 5945.880   | 64.18  | 68.20      | -4.02      | 61.71      | 2.47   | Peak    | 5952.000  | 63.76  | 68.20      | -4.44      | 61.30      | 2.46 Peak     |
| 11570.000  | 37.99  | 54.00      | -16.01     | 27.23      | 10.76  | Average | 11570.000 | 38.41  | 54.00      | -15.59     | 27.65      | 10.76 Average |
| 11570.000  | 52.01  | 74.00      | -21.99     | 41.25      | 10.76  | Peak    | 11570.000 | 51.43  | 74.00      | -22.57     | 40.67      | 10.76 Peak    |
| 17355.000  | 59.92  | 68.20      | -8.28      | 42.21      | 17.71  | Peak    | 17355.000 | 59.55  | 68.20      | -8.65      | 41.84      | 17.71 Peak    |

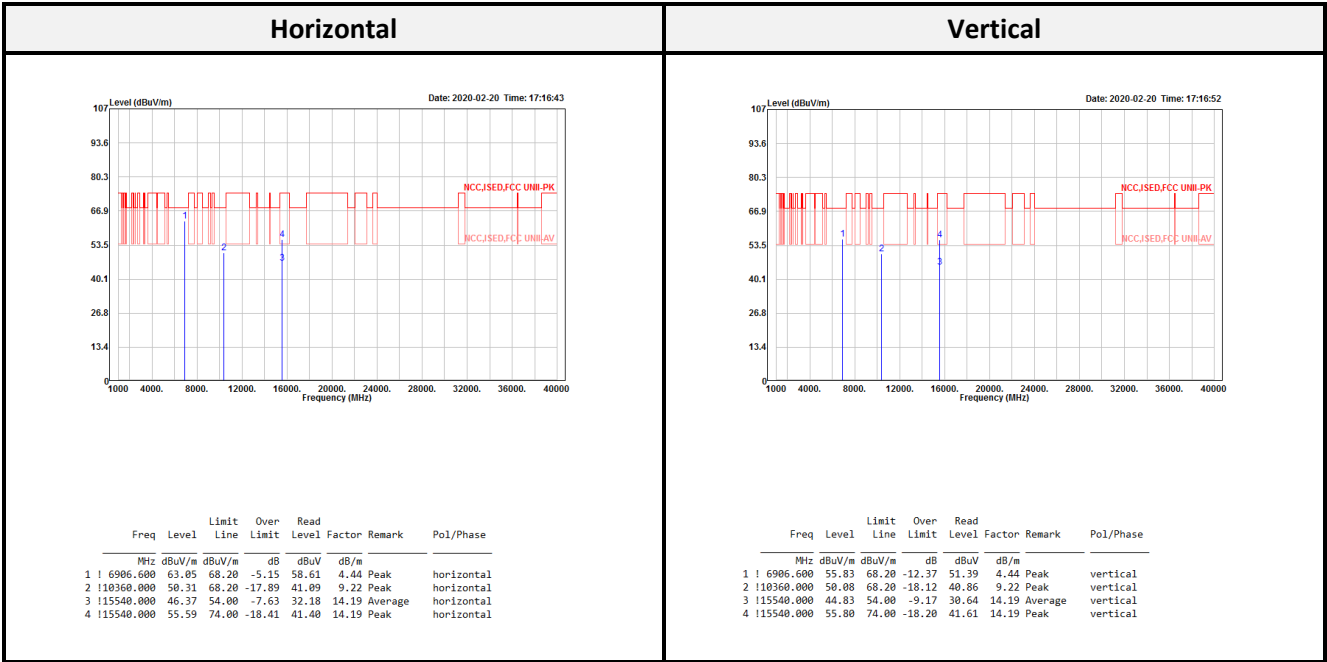
| High CH    |        |            |            |            |        |         |           |        |            |            |            |               |
|------------|--------|------------|------------|------------|--------|---------|-----------|--------|------------|------------|------------|---------------|
| Horizontal |        |            |            |            |        |         | Vertical  |        |            |            |            |               |
| Freq       | Level  | Limit Line | Over Limit | Read Level | Factor | Remark  | Freq      | Level  | Limit Line | Over Limit | Read Level | Factor Remark |
| MHz        | dBuV/m | dBuV/m     | dB         | dBuV       | dB/m   |         | MHz       | dBuV/m | dBuV/m     | dB         | dBuV       | dB/m          |
| 5641.680   | 61.65  | 68.20      | -6.55      | 60.68      | 0.97   | Peak    | 5648.160  | 61.32  | 68.20      | -6.88      | 60.31      | 1.01 Peak     |
| 5693.520   | 62.17  | 100.42     | -38.25     | 60.88      | 1.29   | Peak    | 5692.080  | 62.24  | 99.36      | -37.12     | 60.95      | 1.29 Peak     |
| 5709.360   | 62.36  | 107.82     | -45.46     | 61.05      | 1.31   | Peak    | 5709.360  | 61.46  | 107.82     | -46.36     | 60.15      | 1.31 Peak     |
| 5826.720   | 109.30 |            |            | 107.76     | 1.54   | Peak    | 5823.120  | 100.67 |            |            | 99.16      | 1.51 Peak     |
| 5855.520   | 76.09  | 110.65     | -34.56     | 74.20      | 1.89   | Peak    | 5857.680  | 64.42  | 110.05     | -45.63     | 62.51      | 1.91 Peak     |
| 5907.360   | 64.11  | 81.22      | -17.11     | 61.67      | 2.44   | Peak    | 5901.600  | 64.99  | 85.48      | -20.49     | 62.56      | 2.43 Peak     |
| 5928.600   | 64.38  | 68.20      | -3.82      | 61.88      | 2.50   | Peak    | 5936.520  | 64.11  | 68.20      | -4.09      | 61.63      | 2.48 Peak     |
| 11650.000  | 38.73  | 54.00      | -15.27     | 27.83      | 10.90  | Average | 11650.000 | 38.93  | 54.00      | -15.07     | 28.03      | 10.90 Average |
| 11650.000  | 52.23  | 74.00      | -21.77     | 41.33      | 10.90  | Peak    | 11650.000 | 51.99  | 74.00      | -22.01     | 41.09      | 10.90 Peak    |
| 17475.000  | 59.07  | 68.20      | -9.13      | 41.01      | 18.06  | Peak    | 17475.000 | 59.39  | 68.20      | -8.81      | 41.33      | 18.06 Peak    |

**802.11n HT40 mode:**

| Low CH     |        |            |            |            |        |         |           |        |            |            |            |        |         |
|------------|--------|------------|------------|------------|--------|---------|-----------|--------|------------|------------|------------|--------|---------|
| Horizontal |        |            |            |            |        |         | Vertical  |        |            |            |            |        |         |
| Freq       | Level  | Limit Line | Over Limit | Read Level | Factor | Remark  | Freq      | Level  | Limit Line | Over Limit | Read Level | Factor | Remark  |
| MHz        | dBuV/m | dBuV/m     | dB         | dBuV       | dB/m   |         | MHz       | dBuV/m | dBuV/m     | dB         | dBuV       | dB/m   |         |
| 5616.840   | 61.52  | 68.20      | -6.68      | 60.68      | 0.84   | Peak    | 5638.440  | 60.98  | 68.20      | -7.22      | 60.04      | 0.94   | Peak    |
| 5697.840   | 66.61  | 103.61     | -37.00     | 65.29      | 1.32   | Peak    | 5693.880  | 62.45  | 100.69     | -38.24     | 61.16      | 1.29   | Peak    |
| 5719.080   | 78.33  | 110.54     | -32.21     | 77.03      | 1.30   | Peak    | 5718.720  | 70.06  | 110.44     | -40.38     | 68.75      | 1.31   | Peak    |
| 5760.840   | 105.02 |            |            | 103.72     | 1.30   | Peak    | 5749.320  | 96.42  |            |            | 95.15      | 1.27   | Peak    |
| 5865.240   | 63.54  | 107.93     | -44.39     | 61.53      | 2.01   | Peak    | 5860.920  | 63.30  | 109.14     | -45.84     | 61.34      | 1.96   | Peak    |
| 5909.880   | 64.81  | 79.36      | -14.55     | 62.37      | 2.44   | Peak    | 5895.120  | 64.46  | 90.27      | -25.81     | 62.09      | 2.37   | Peak    |
| 5955.600   | 64.06  | 68.20      | -4.14      | 61.61      | 2.45   | Peak    | 5949.120  | 64.77  | 68.20      | -3.43      | 62.31      | 2.46   | Peak    |
| 11510.000  | 38.27  | 54.00      | -15.73     | 27.54      | 10.73  | Average | 11510.000 | 38.60  | 54.00      | -15.40     | 27.87      | 10.73  | Average |
| 11510.000  | 50.76  | 74.00      | -23.24     | 40.03      | 10.73  | Peak    | 11510.000 | 50.22  | 74.00      | -23.78     | 39.49      | 10.73  | Peak    |
| 17265.000  | 58.12  | 68.20      | -10.08     | 41.02      | 17.10  | Peak    | 17265.000 | 58.54  | 68.20      | -9.66      | 41.44      | 17.10  | Peak    |

| High CH    |        |            |            |            |        |         |           |        |            |            |            |        |         |
|------------|--------|------------|------------|------------|--------|---------|-----------|--------|------------|------------|------------|--------|---------|
| Horizontal |        |            |            |            |        |         | Vertical  |        |            |            |            |        |         |
| Freq       | Level  | Limit Line | Over Limit | Read Level | Factor | Remark  | Freq      | Level  | Limit Line | Over Limit | Read Level | Factor | Remark  |
| MHz        | dBuV/m | dBuV/m     | dB         | dBuV       | dB/m   |         | MHz       | dBuV/m | dBuV/m     | dB         | dBuV       | dB/m   |         |
| 5643.480   | 61.51  | 68.20      | -6.69      | 60.53      | 0.98   | Peak    | 5622.960  | 61.78  | 68.20      | -6.42      | 60.92      | 0.86   | Peak    |
| 5670.480   | 62.37  | 83.39      | -21.02     | 61.21      | 1.16   | Peak    | 5685.240  | 62.37  | 94.31      | -31.94     | 61.11      | 1.26   | Peak    |
| 5712.600   | 62.26  | 108.73     | -46.47     | 60.95      | 1.31   | Peak    | 5714.040  | 61.93  | 109.13     | -47.20     | 60.63      | 1.30   | Peak    |
| 5800.800   | 104.97 |            |            | 103.66     | 1.31   | Peak    | 5789.280  | 95.39  |            |            | 94.07      | 1.32   | Peak    |
| 5858.040   | 66.27  | 109.95     | -43.68     | 64.35      | 1.92   | Peak    | 5866.680  | 63.38  | 107.53     | -44.15     | 61.36      | 2.02   | Peak    |
| 5909.520   | 64.28  | 79.62      | -15.34     | 61.84      | 2.44   | Peak    | 5909.520  | 64.36  | 79.62      | -15.26     | 61.92      | 2.44   | Peak    |
| 5969.280   | 65.31  | 68.20      | -2.89      | 62.89      | 2.42   | Peak    | 5939.760  | 63.71  | 68.20      | -4.49      | 61.24      | 2.47   | Peak    |
| 11590.000  | 38.83  | 54.00      | -15.17     | 28.06      | 10.77  | Average | 11590.000 | 38.11  | 54.00      | -15.89     | 27.34      | 10.77  | Average |
| 11590.000  | 50.85  | 74.00      | -23.15     | 40.08      | 10.77  | Peak    | 11590.000 | 51.17  | 74.00      | -22.83     | 40.40      | 10.77  | Peak    |
| 17385.000  | 58.34  | 68.20      | -9.86      | 40.53      | 17.81  | Peak    | 17385.000 | 58.06  | 68.20      | -10.14     | 40.25      | 17.81  | Peak    |

Above 1G (1 GHz-40 GHz): test the worst mode: UNII-1 802.11n HT20 Low CH.



Level = Read Level + Factor

Over Limit = Level – Limit

Correct Factor = Antenna Factor + Cable Loss – Amplifier Gain

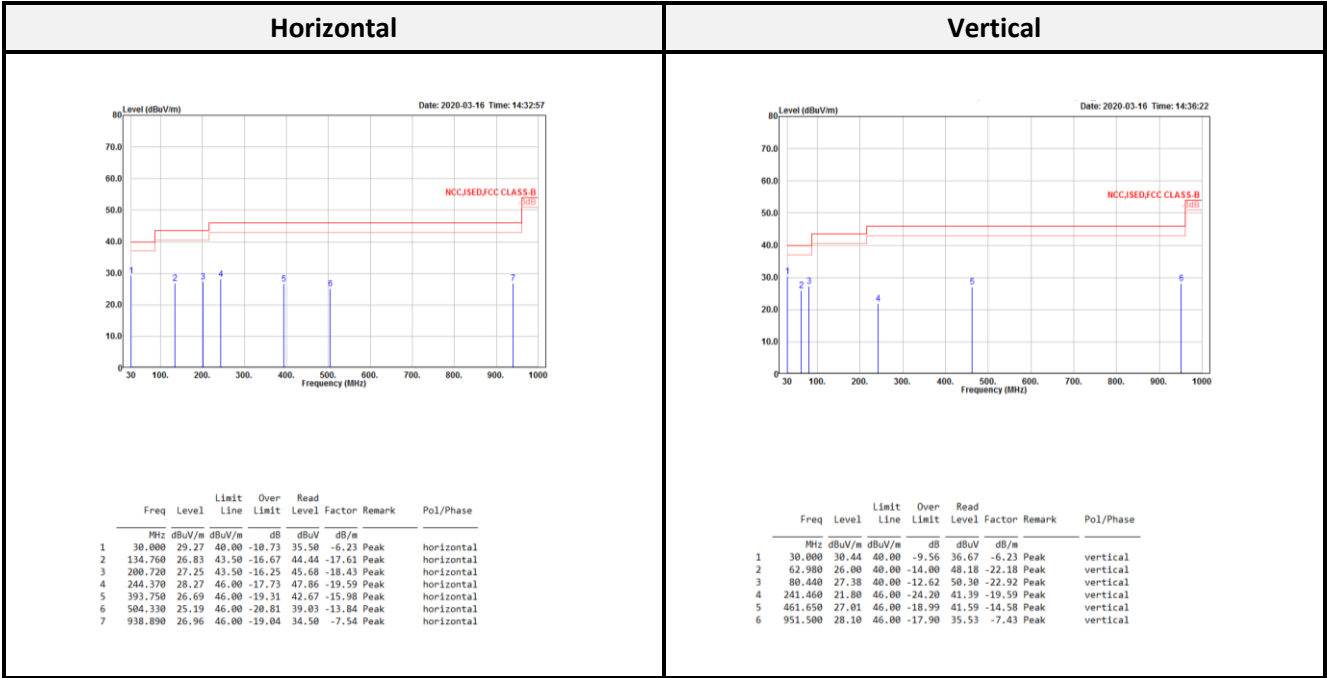
Spurious emissions more than 20 dB below the limit were not reported



< Dipole antenna (Inside WLAN PRO-IS-299)>

Transmitting mode (Pre-scan with three orthogonal axis, and worse case as Y axis)

Below 1G (30 MHz-1 GHz) test the output power worst mode



Level = Read Level + Factor

Over Limit = Level – Limit

Correct Factor = Antenna Factor + Cable Loss – Amplifier Gain

Spurious emissions more than 20 dB below the limit were not reported

**Above 1G (1 GHz-40 GHz) in UNII-1:****802.11a mode:**

| Low CH     |        |            |            |            |        |         |           |        |            |            |            |        |         |
|------------|--------|------------|------------|------------|--------|---------|-----------|--------|------------|------------|------------|--------|---------|
| Horizontal |        |            |            |            |        |         | Vertical  |        |            |            |            |        |         |
| Freq       | Level  | Limit Line | Over Limit | Read Level | Factor | Remark  | Freq      | Level  | Limit Line | Over Limit | Read Level | Factor | Remark  |
| MHz        | dBuV/m | dBuV/m     | dB         | dBuV       | dB/m   |         | MHz       | dBuV/m | dBuV/m     | dB         | dBuV       | dB/m   |         |
| 5101.000   | 46.86  | 54.00      | -7.14      | 46.38      | 0.48   | Average | 5149.300  | 46.92  | 54.00      | -7.08      | 46.57      | 0.35   | Average |
| 5101.000   | 60.74  | 74.00      | -13.26     | 60.26      | 0.48   | Peak    | 5149.300  | 61.29  | 74.00      | -12.71     | 60.94      | 0.35   | Peak    |
| 5181.550   | 79.18  |            |            | 78.94      | 0.24   | Average | 5182.300  | 82.13  |            |            | 81.88      | 0.25   | Average |
| 5181.550   | 89.75  |            |            | 89.51      | 0.24   | Peak    | 5182.300  | 92.83  |            |            | 92.58      | 0.25   | Peak    |
| ! 6906.700 | 58.24  | 68.20      | -9.96      | 53.78      | 4.46   | Peak    | 6906.700  | 57.18  | 68.20      | -11.02     | 52.74      | 4.44   | Peak    |
| !10360.000 | 51.75  | 68.20      | -16.45     | 42.53      | 9.22   | Peak    | 10360.000 | 49.90  | 68.20      | -18.30     | 40.68      | 9.22   | Peak    |
| !15540.000 | 45.60  | 54.00      | -8.40      | 31.41      | 14.19  | Average | 15540.000 | 44.82  | 54.00      | -9.18      | 30.63      | 14.19  | Average |
| !15540.000 | 56.93  | 74.00      | -17.07     | 42.74      | 14.19  | Peak    | 15540.000 | 56.99  | 74.00      | -17.01     | 42.80      | 14.19  | Peak    |

| Middle CH  |        |            |            |            |        |         |           |        |            |            |            |        |         |
|------------|--------|------------|------------|------------|--------|---------|-----------|--------|------------|------------|------------|--------|---------|
| Horizontal |        |            |            |            |        |         | Vertical  |        |            |            |            |        |         |
| Freq       | Level  | Limit Line | Over Limit | Read Level | Factor | Remark  | Freq      | Level  | Limit Line | Over Limit | Read Level | Factor | Remark  |
| MHz        | dBuV/m | dBuV/m     | dB         | dBuV       | dB/m   |         | MHz       | dBuV/m | dBuV/m     | dB         | dBuV       | dB/m   |         |
| 5120.000   | 46.54  | 54.00      | -7.46      | 46.11      | 0.43   | Average | 5134.800  | 46.53  | 54.00      | -7.47      | 46.13      | 0.40   | Average |
| 5120.000   | 60.37  | 74.00      | -13.63     | 59.94      | 0.43   | Peak    | 5134.800  | 60.68  | 74.00      | -13.32     | 60.28      | 0.40   | Peak    |
| ! 5202.400 | 79.21  |            |            | 78.96      | 0.25   | Average | 5202.400  | 83.43  |            |            | 83.18      | 0.25   | Average |
| ! 5202.400 | 89.36  |            |            | 89.11      | 0.25   | Peak    | 5202.400  | 93.59  |            |            | 93.34      | 0.25   | Peak    |
| 5414.800   | 46.26  | 54.00      | -7.74      | 46.10      | 0.16   | Average | 5419.200  | 46.47  | 54.00      | -7.53      | 46.30      | 0.17   | Average |
| 5414.800   | 60.48  | 74.00      | -13.52     | 60.32      | 0.16   | Peak    | 5419.200  | 60.48  | 74.00      | -13.52     | 60.31      | 0.17   | Peak    |
| 6933.300   | 58.07  | 68.20      | -10.13     | 53.68      | 4.39   | Peak    | 6933.300  | 57.96  | 68.20      | -10.24     | 53.57      | 4.39   | Peak    |
| 10400.000  | 50.82  | 68.20      | -17.38     | 41.43      | 9.39   | Peak    | 10400.000 | 50.19  | 68.20      | -18.01     | 40.80      | 9.39   | Peak    |
| 15600.000  | 45.86  | 54.00      | -8.14      | 31.69      | 14.17  | Average | 15600.000 | 45.44  | 54.00      | -8.56      | 31.27      | 14.17  | Average |
| 15600.000  | 58.64  | 74.00      | -15.36     | 44.47      | 14.17  | Peak    | 15600.000 | 57.87  | 74.00      | -16.13     | 43.70      | 14.17  | Peak    |

| High CH    |        |            |            |            |        |         |           |        |            |            |            |        |         |
|------------|--------|------------|------------|------------|--------|---------|-----------|--------|------------|------------|------------|--------|---------|
| Horizontal |        |            |            |            |        |         | Vertical  |        |            |            |            |        |         |
| Freq       | Level  | Limit Line | Over Limit | Read Level | Factor | Remark  | Freq      | Level  | Limit Line | Over Limit | Read Level | Factor | Remark  |
| MHz        | dBuV/m | dBuV/m     | dB         | dBuV       | dB/m   |         | MHz       | dBuV/m | dBuV/m     | dB         | dBuV       | dB/m   |         |
| 5079.200   | 46.88  | 54.00      | -7.12      | 46.32      | 0.56   | Average | 5102.400  | 46.61  | 54.00      | -7.39      | 46.14      | 0.47   | Average |
| 5079.200   | 60.46  | 74.00      | -13.54     | 59.90      | 0.56   | Peak    | 5102.400  | 60.49  | 74.00      | -13.51     | 60.02      | 0.47   | Peak    |
| 5238.400   | 76.24  |            |            | 76.00      | 0.24   | Average | 5238.000  | 83.67  |            |            | 83.43      | 0.24   | Average |
| 5238.400   | 86.06  |            |            | 85.82      | 0.24   | Peak    | 5238.000  | 93.78  |            |            | 93.54      | 0.24   | Peak    |
| 5437.600   | 46.44  | 54.00      | -7.56      | 46.21      | 0.23   | Average | 5395.600  | 46.52  | 54.00      | -7.48      | 46.38      | 0.14   | Average |
| 5437.600   | 60.21  | 74.00      | -13.79     | 59.98      | 0.23   | Peak    | 5395.600  | 60.51  | 74.00      | -13.49     | 60.37      | 0.14   | Peak    |
| 6986.700   | 56.71  | 68.20      | -11.49     | 52.46      | 4.25   | Peak    | 6986.700  | 56.84  | 68.20      | -11.36     | 52.66      | 4.18   | Peak    |
| 10480.000  | 50.23  | 68.20      | -17.97     | 41.04      | 9.19   | Peak    | 10480.000 | 47.84  | 68.20      | -20.36     | 38.65      | 9.19   | Peak    |
| 15720.000  | 45.71  | 54.00      | -8.29      | 31.41      | 14.30  | Average | 15720.000 | 45.70  | 54.00      | -8.30      | 31.40      | 14.30  | Average |
| 15720.000  | 59.71  | 74.00      | -14.29     | 45.41      | 14.30  | Peak    | 15720.000 | 60.56  | 74.00      | -13.44     | 46.26      | 14.30  | Peak    |

802.11n HT20 mode:

| Low CH     |        |        |        |       |        |         |           |        |        |        |       |        |         |
|------------|--------|--------|--------|-------|--------|---------|-----------|--------|--------|--------|-------|--------|---------|
| Horizontal |        |        |        |       |        |         | Vertical  |        |        |        |       |        |         |
| Freq       | Level  | Limit  | Over   | Read  |        |         | Freq      | Level  | Limit  | Over   | Read  |        |         |
|            |        | Line   | Limit  | Level | Factor | Remark  |           |        | Line   | Limit  | Level | Factor | Remark  |
| MHz        | dBuV/m | dBuV/m | dB     | dBuV  | dB/m   |         | MHz       | dBuV/m | dBuV/m | dB     | dBuV  | dB/m   |         |
| 5147.350   | 46.92  | 54.00  | -7.08  | 46.57 | 0.35   | Average | 5149.300  | 47.05  | 54.00  | -6.95  | 46.70 | 0.35   | Average |
| 5147.350   | 61.16  | 74.00  | -12.84 | 60.81 | 0.35   | Peak    | 5149.300  | 62.35  | 74.00  | -11.65 | 62.00 | 0.35   | Peak    |
| 5181.550   | 77.78  |        |        | 77.54 | 0.24   | Average | 5181.850  | 80.57  |        |        | 80.32 | 0.25   | Average |
| 5181.550   | 88.62  |        |        | 88.38 | 0.24   | Peak    | 5181.850  | 90.67  |        |        | 90.42 | 0.25   | Peak    |
| 6906.700   | 56.60  | 68.20  | -11.60 | 52.16 | 4.44   | Peak    | 6906.700  | 57.70  | 68.20  | -10.50 | 53.26 | 4.44   | Peak    |
| 10360.000  | 50.12  | 68.20  | -18.08 | 40.90 | 9.22   | Peak    | 10360.000 | 51.08  | 68.20  | -17.12 | 41.86 | 9.22   | Peak    |
| 15540.000  | 43.04  | 54.00  | -10.96 | 28.85 | 14.19  | Average | 15540.000 | 43.70  | 54.00  | -10.30 | 29.51 | 14.19  | Average |
| 15540.000  | 58.04  | 74.00  | -15.96 | 43.85 | 14.19  | Peak    | 15540.000 | 57.22  | 74.00  | -16.78 | 43.03 | 14.19  | Peak    |

| Middle CH  |        |        |        |       |        |         |           |        |        |        |       |        |         |
|------------|--------|--------|--------|-------|--------|---------|-----------|--------|--------|--------|-------|--------|---------|
| Horizontal |        |        |        |       |        |         | Vertical  |        |        |        |       |        |         |
| Freq       | Level  | Limit  | Over   | Read  |        |         | Freq      | Level  | Limit  | Over   | Read  |        |         |
|            |        | Line   | Limit  | Level | Factor | Remark  |           |        | Line   | Limit  | Level | Factor | Remark  |
| MHz        | dBuV/m | dBuV/m | dB     | dBuV  | dB/m   |         | MHz       | dBuV/m | dBuV/m | dB     | dBuV  | dB/m   |         |
| 5114.400   | 46.70  | 54.00  | -7.30  | 46.25 | 0.45   | Average | 5059.600  | 46.77  | 54.00  | -7.23  | 46.16 | 0.61   | Average |
| 5114.400   | 60.69  | 74.00  | -13.31 | 60.24 | 0.45   | Peak    | 5059.600  | 60.67  | 74.00  | -13.33 | 60.06 | 0.61   | Peak    |
| 5202.000   | 78.91  |        |        | 78.65 | 0.26   | Average | 5202.400  | 81.48  |        |        | 81.23 | 0.25   | Average |
| 5202.000   | 89.43  |        |        | 89.17 | 0.26   | Peak    | 5202.400  | 91.35  |        |        | 91.10 | 0.25   | Peak    |
| 5437.600   | 46.56  | 54.00  | -7.44  | 46.33 | 0.23   | Average | 5446.000  | 46.62  | 54.00  | -7.38  | 46.35 | 0.27   | Average |
| 5437.600   | 60.57  | 74.00  | -13.43 | 60.34 | 0.23   | Peak    | 5446.000  | 60.94  | 74.00  | -13.06 | 60.67 | 0.27   | Peak    |
| 6933.300   | 56.97  | 68.20  | -11.23 | 52.59 | 4.38   | Peak    | 6933.300  | 57.32  | 68.20  | -10.88 | 52.94 | 4.38   | Peak    |
| 10400.000  | 50.63  | 68.20  | -17.57 | 41.24 | 9.39   | Peak    | 10400.000 | 50.79  | 68.20  | -17.41 | 41.40 | 9.39   | Peak    |
| 15600.000  | 43.91  | 54.00  | -10.09 | 29.74 | 14.17  | Average | 15600.000 | 43.35  | 54.00  | -10.65 | 29.18 | 14.17  | Average |
| 15600.000  | 58.85  | 74.00  | -15.15 | 44.68 | 14.17  | Peak    | 15600.000 | 58.85  | 74.00  | -15.15 | 44.68 | 14.17  | Peak    |

| High CH    |        |        |        |       |        |         |           |        |        |        |       |        |         |
|------------|--------|--------|--------|-------|--------|---------|-----------|--------|--------|--------|-------|--------|---------|
| Horizontal |        |        |        |       |        |         | Vertical  |        |        |        |       |        |         |
| Freq       | Level  | Limit  | Over   | Read  |        |         | Freq      | Level  | Limit  | Over   | Read  |        |         |
|            |        | Line   | Limit  | Level | Factor | Remark  |           |        | Line   | Limit  | Level | Factor | Remark  |
| MHz        | dBuV/m | dBuV/m | dB     | dBuV  | dB/m   |         | MHz       | dBuV/m | dBuV/m | dB     | dBuV  | dB/m   |         |
| 5084.800   | 46.89  | 54.00  | -7.11  | 46.35 | 0.54   | Average | 5130.400  | 46.61  | 54.00  | -7.39  | 46.20 | 0.41   | Average |
| 5084.800   | 60.41  | 74.00  | -13.59 | 59.87 | 0.54   | Peak    | 5130.400  | 60.88  | 74.00  | -13.12 | 60.47 | 0.41   | Peak    |
| 5241.600   | 78.40  |        |        | 78.18 | 0.22   | Average | 5241.600  | 82.54  |        |        | 82.32 | 0.22   | Average |
| 5241.600   | 89.07  |        |        | 88.85 | 0.22   | Peak    | 5241.600  | 92.79  |        |        | 92.57 | 0.22   | Peak    |
| 5431.200   | 46.45  | 54.00  | -7.55  | 46.25 | 0.20   | Average | 5436.400  | 46.52  | 54.00  | -7.48  | 46.29 | 0.23   | Average |
| 5431.200   | 60.19  | 74.00  | -13.81 | 59.99 | 0.20   | Peak    | 5436.400  | 60.37  | 74.00  | -13.63 | 60.14 | 0.23   | Peak    |
| ! 6986.700 | 56.06  | 68.20  | -12.14 | 51.88 | 4.18   | Peak    | 6986.700  | 57.01  | 68.20  | -11.19 | 52.83 | 4.18   | Peak    |
| !10480.000 | 50.63  | 68.20  | -17.57 | 41.44 | 9.19   | Peak    | 10480.000 | 51.34  | 68.20  | -16.86 | 42.15 | 9.19   | Peak    |
| !15720.000 | 45.77  | 54.00  | -8.23  | 31.47 | 14.30  | Average | 15720.000 | 45.98  | 54.00  | -8.02  | 31.68 | 14.30  | Average |
| !15720.000 | 59.61  | 74.00  | -14.39 | 45.31 | 14.30  | Peak    | 15720.000 | 59.59  | 74.00  | -14.41 | 45.29 | 14.30  | Peak    |

**802.11n HT40 mode:**

| Low CH     |        |               |               |               |        |         |           |        |               |               |               |        |         |
|------------|--------|---------------|---------------|---------------|--------|---------|-----------|--------|---------------|---------------|---------------|--------|---------|
| Horizontal |        |               |               |               |        |         | Vertical  |        |               |               |               |        |         |
| Freq       | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | Factor | Remark  | Freq      | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | Factor | Remark  |
| MHz        | dBuV/m | dBuV/m        | dB            | dBuV          | dB/m   |         | MHz       | dBuV/m | dBuV/m        | dB            | dBuV          | dB/m   |         |
| 5145.040   | 47.96  | 54.00         | -6.04         | 47.60         | 0.36   | Average | 5144.400  | 48.36  | 54.00         | -5.64         | 48.00         | 0.36   | Average |
| 5145.040   | 62.70  | 74.00         | -11.30        | 62.34         | 0.36   | Peak    | 5144.400  | 62.03  | 74.00         | -11.97        | 61.67         | 0.36   | Peak    |
| 5195.600   | 73.35  |               |               | 73.10         | 0.25   | Average | 5193.840  | 77.08  |               |               | 76.83         | 0.25   | Average |
| 5195.600   | 84.30  |               |               | 84.05         | 0.25   | Peak    | 5193.840  | 88.13  |               |               | 87.88         | 0.25   | Peak    |
| 6920.000   | 59.84  | 68.20         | -8.36         | 55.38         | 4.46   | Peak    | 6920.000  | 59.92  | 68.20         | -8.28         | 55.46         | 4.46   | Peak    |
| 10380.000  | 50.10  | 68.20         | -18.10        | 40.74         | 9.36   | Peak    | 10380.000 | 50.82  | 68.20         | -17.38        | 41.46         | 9.36   | Peak    |
| 15570.000  | 43.50  | 54.00         | -10.50        | 29.32         | 14.18  | Average | 15570.000 | 43.39  | 54.00         | -10.61        | 29.21         | 14.18  | Average |
| 15570.000  | 56.98  | 74.00         | -17.02        | 42.80         | 14.18  | Peak    | 15570.000 | 56.88  | 74.00         | -17.12        | 42.70         | 14.18  | Peak    |

| High CH    |        |               |               |               |        |         |           |        |               |               |               |        |         |
|------------|--------|---------------|---------------|---------------|--------|---------|-----------|--------|---------------|---------------|---------------|--------|---------|
| Horizontal |        |               |               |               |        |         | Vertical  |        |               |               |               |        |         |
| Freq       | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | Factor | Remark  | Freq      | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | Factor | Remark  |
| MHz        | dBuV/m | dBuV/m        | dB            | dBuV          | dB/m   |         | MHz       | dBuV/m | dBuV/m        | dB            | dBuV          | dB/m   |         |
| 5106.800   | 46.69  | 54.00         | -7.31         | 46.22         | 0.47   | Average | 5140.000  | 46.60  | 54.00         | -7.40         | 46.22         | 0.38   | Average |
| 5106.800   | 61.03  | 74.00         | -12.97        | 60.56         | 0.47   | Peak    | 5140.000  | 60.93  | 74.00         | -13.07        | 60.55         | 0.38   | Peak    |
| 5213.200   | 72.44  |               |               | 72.17         | 0.27   | Average | 5236.000  | 77.61  |               |               | 77.36         | 0.25   | Average |
| 5213.200   | 82.94  |               |               | 82.67         | 0.27   | Peak    | 5236.000  | 89.34  |               |               | 89.09         | 0.25   | Peak    |
| 5432.800   | 46.56  | 54.00         | -7.44         | 46.36         | 0.20   | Average | 5437.600  | 46.59  | 54.00         | -7.41         | 46.36         | 0.23   | Average |
| 5432.800   | 60.90  | 74.00         | -13.10        | 60.70         | 0.20   | Peak    | 5437.600  | 61.02  | 74.00         | -12.98        | 60.79         | 0.23   | Peak    |
| 6973.300   | 55.72  | 68.20         | -12.48        | 51.47         | 4.25   | Peak    | 6973.300  | 57.32  | 68.20         | -10.88        | 53.07         | 4.25   | Peak    |
| 10460.000  | 49.50  | 68.20         | -18.70        | 40.22         | 9.28   | Peak    | 10460.000 | 49.73  | 68.20         | -18.47        | 40.45         | 9.28   | Peak    |
| 15690.000  | 43.49  | 54.00         | -10.51        | 29.19         | 14.30  | Average | 15690.000 | 43.41  | 54.00         | -10.59        | 29.11         | 14.30  | Average |
| 15690.000  | 59.21  | 74.00         | -14.79        | 44.91         | 14.30  | Peak    | 15690.000 | 59.48  | 74.00         | -14.52        | 45.18         | 14.30  | Peak    |

**Above 1G (1 GHz-40 GHz) in UNII-2a:****802.11a mode:**

| Low CH     |        |            |            |            |        |         |           |        |            |            |            |        |         |
|------------|--------|------------|------------|------------|--------|---------|-----------|--------|------------|------------|------------|--------|---------|
| Horizontal |        |            |            |            |        |         | Vertical  |        |            |            |            |        |         |
| Freq       | Level  | Limit Line | Over Limit | Read Level | Factor | Remark  | Freq      | Level  | Limit Line | Over Limit | Read Level | Factor | Remark  |
| MHz        | dBuV/m | dBuV/m     | dB         | dBuV       | dB/m   |         | MHz       | dBuV/m | dBuV/m     | dB         | dBuV       | dB/m   |         |
| 5060.400   | 46.71  | 54.00      | -7.29      | 46.11      | 0.60   | Average | 5061.200  | 46.85  | 54.00      | -7.15      | 46.25      | 0.60   | Average |
| 5060.400   | 60.96  | 74.00      | -13.04     | 60.36      | 0.60   | Peak    | 5061.200  | 60.68  | 74.00      | -13.32     | 60.08      | 0.60   | Peak    |
| 5257.600   | 77.49  |            |            | 77.32      | 0.17   | Average | 5257.600  | 83.33  |            |            | 83.16      | 0.17   | Average |
| 5257.600   | 88.16  |            |            | 87.99      | 0.17   | Peak    | 5257.600  | 93.92  |            |            | 93.75      | 0.17   | Peak    |
| 5422.400   | 46.48  | 54.00      | -7.52      | 46.31      | 0.17   | Average | 5442.800  | 46.35  | 54.00      | -7.65      | 46.10      | 0.25   | Average |
| 5422.400   | 60.56  | 74.00      | -13.44     | 60.39      | 0.17   | Peak    | 5442.800  | 60.38  | 74.00      | -13.62     | 60.13      | 0.25   | Peak    |
| 7013.300   | 56.06  | 68.20      | -12.14     | 51.89      | 4.17   | Peak    | 7013.300  | 56.10  | 68.20      | -12.10     | 51.93      | 4.17   | Peak    |
| 10520.000  | 50.22  | 68.20      | -17.98     | 41.38      | 8.84   | Peak    | 10520.000 | 51.16  | 68.20      | -17.04     | 42.32      | 8.84   | Peak    |
| 15780.000  | 45.63  | 54.00      | -8.37      | 31.60      | 14.03  | Average | 15780.000 | 45.77  | 54.00      | -8.23      | 31.74      | 14.03  | Average |
| 15780.000  | 59.05  | 74.00      | -14.95     | 45.02      | 14.03  | Peak    | 15780.000 | 59.11  | 74.00      | -14.89     | 45.08      | 14.03  | Peak    |

| Middle CH  |        |            |            |            |        |         |           |        |            |            |            |        |         |
|------------|--------|------------|------------|------------|--------|---------|-----------|--------|------------|------------|------------|--------|---------|
| Horizontal |        |            |            |            |        |         | Vertical  |        |            |            |            |        |         |
| Freq       | Level  | Limit Line | Over Limit | Read Level | Factor | Remark  | Freq      | Level  | Limit Line | Over Limit | Read Level | Factor | Remark  |
| MHz        | dBuV/m | dBuV/m     | dB         | dBuV       | dB/m   |         | MHz       | dBuV/m | dBuV/m     | dB         | dBuV       | dB/m   |         |
| 5142.000   | 46.62  | 54.00      | -7.38      | 46.24      | 0.38   | Average | 5109.200  | 46.56  | 54.00      | -7.44      | 46.10      | 0.46   | Average |
| 5142.000   | 60.58  | 74.00      | -13.42     | 60.20      | 0.38   | Peak    | 5109.200  | 60.83  | 74.00      | -13.17     | 60.37      | 0.46   | Peak    |
| 5299.600   | 77.20  |            |            | 76.99      | 0.21   | Average | 5298.000  | 83.95  |            |            | 83.76      | 0.19   | Average |
| 5299.600   | 87.43  |            |            | 87.22      | 0.21   | Peak    | 5298.000  | 94.53  |            |            | 94.34      | 0.19   | Peak    |
| 5388.000   | 46.48  | 54.00      | -7.52      | 46.33      | 0.15   | Average | 5434.800  | 46.42  | 54.00      | -7.58      | 46.21      | 0.21   | Average |
| 5388.000   | 59.71  | 74.00      | -14.29     | 59.56      | 0.15   | Peak    | 5434.800  | 60.59  | 74.00      | -13.41     | 60.38      | 0.21   | Peak    |
| 7066.700   | 47.87  | 68.20      | -20.33     | 43.28      | 4.59   | Peak    | 7066.700  | 52.24  | 68.20      | -15.96     | 47.65      | 4.59   | Peak    |
| 10600.000  | 36.81  | 54.00      | -17.19     | 27.53      | 9.28   | Average | 10600.000 | 37.11  | 54.00      | -16.89     | 27.83      | 9.28   | Average |
| 10600.000  | 50.51  | 74.00      | -23.49     | 41.23      | 9.28   | Peak    | 10600.000 | 51.02  | 74.00      | -22.98     | 41.74      | 9.28   | Peak    |
| 15900.000  | 44.14  | 54.00      | -9.86      | 30.29      | 13.85  | Average | 15900.000 | 44.02  | 54.00      | -9.98      | 30.17      | 13.85  | Average |
| 15900.000  | 58.47  | 74.00      | -15.53     | 44.61      | 13.86  | Peak    | 15900.000 | 58.99  | 74.00      | -15.01     | 45.14      | 13.85  | Peak    |

| High CH    |        |            |            |            |        |         |           |        |            |            |            |        |         |
|------------|--------|------------|------------|------------|--------|---------|-----------|--------|------------|------------|------------|--------|---------|
| Horizontal |        |            |            |            |        |         | Vertical  |        |            |            |            |        |         |
| Freq       | Level  | Limit Line | Over Limit | Read Level | Factor | Remark  | Freq      | Level  | Limit Line | Over Limit | Read Level | Factor | Remark  |
| MHz        | dBuV/m | dBuV/m     | dB         | dBuV       | dB/m   |         | MHz       | dBuV/m | dBuV/m     | dB         | dBuV       | dB/m   |         |
| 5323.600   | 77.64  |            |            | 77.40      | 0.24   | Average | 5319.600  | 83.66  |            |            | 83.43      | 0.23   | Average |
| 5323.600   | 87.50  |            |            | 87.26      | 0.24   | Peak    | 5319.600  | 94.06  |            |            | 93.83      | 0.23   | Peak    |
| 5418.000   | 46.42  | 54.00      | -7.58      | 46.25      | 0.17   | Average | 5416.400  | 46.46  | 54.00      | -7.54      | 46.30      | 0.16   | Average |
| 5418.000   | 60.87  | 74.00      | -13.13     | 60.70      | 0.17   | Peak    | 5416.400  | 60.22  | 74.00      | -13.78     | 60.06      | 0.16   | Peak    |
| 7093.300   | 49.07  | 68.20      | -19.13     | 44.27      | 4.80   | Peak    | 7093.300  | 52.35  | 68.20      | -15.85     | 47.55      | 4.80   | Peak    |
| 10640.000  | 42.09  | 54.00      | -11.91     | 32.19      | 9.90   | Average | 10640.000 | 37.07  | 54.00      | -16.93     | 27.17      | 9.90   | Average |
| 10640.000  | 51.79  | 74.00      | -22.21     | 41.89      | 9.90   | Peak    | 10640.000 | 50.52  | 74.00      | -23.48     | 40.62      | 9.90   | Peak    |
| 15960.000  | 46.20  | 54.00      | -7.80      | 32.55      | 13.65  | Average | 15960.000 | 45.64  | 54.00      | -8.36      | 31.99      | 13.65  | Average |
| 15960.000  | 59.14  | 74.00      | -14.86     | 45.49      | 13.65  | Peak    | 15960.000 | 59.47  | 74.00      | -14.53     | 45.82      | 13.65  | Peak    |

**802.11n HT20 mode:**

| Low CH     |        |        |        |       |        |         |           |        |        |        |       |        |         |
|------------|--------|--------|--------|-------|--------|---------|-----------|--------|--------|--------|-------|--------|---------|
| Horizontal |        |        |        |       |        |         | Vertical  |        |        |        |       |        |         |
| Freq       | Level  | Limit  | Over   | Read  |        |         | Freq      | Level  | Limit  | Over   | Read  |        |         |
|            |        | Line   | Limit  | Level | Factor | Remark  |           |        | Line   | Limit  | Level | Factor | Remark  |
| MHz        | dBuV/m | dBuV/m | dB     | dBuV  | dB/m   |         | MHz       | dBuV/m | dBuV/m | dB     | dBuV  | dB/m   |         |
| 5072.000   | 46.89  | 54.00  | -7.11  | 46.32 | 0.57   | Average | 5104.000  | 46.67  | 54.00  | -7.33  | 46.20 | 0.47   | Average |
| 5072.000   | 60.42  | 74.00  | -13.58 | 59.85 | 0.57   | Peak    | 5104.000  | 60.13  | 74.00  | -13.87 | 59.66 | 0.47   | Peak    |
| 5262.400   | 77.62  |        |        | 77.45 | 0.17   | Average | 5258.000  | 82.37  |        |        | 82.19 | 0.18   | Average |
| 5262.400   | 87.72  |        |        | 87.55 | 0.17   | Peak    | 5258.000  | 93.09  |        |        | 92.91 | 0.18   | Peak    |
| 5446.000   | 46.58  | 54.00  | -7.42  | 46.31 | 0.27   | Average | 5419.200  | 46.72  | 54.00  | -7.28  | 46.55 | 0.17   | Average |
| 5446.000   | 60.38  | 74.00  | -13.62 | 60.11 | 0.27   | Peak    | 5419.200  | 60.95  | 74.00  | -13.05 | 60.78 | 0.17   | Peak    |
| 7013.300   | 55.73  | 68.20  | -12.47 | 51.53 | 4.20   | Peak    | 7013.300  | 57.00  | 68.20  | -11.20 | 52.80 | 4.20   | Peak    |
| 10520.000  | 51.02  | 68.20  | -17.18 | 42.18 | 8.84   | Peak    | 10520.000 | 50.36  | 68.20  | -17.84 | 41.52 | 8.84   | Peak    |
| 15780.000  | 45.89  | 54.00  | -8.11  | 31.86 | 14.03  | Average | 15780.000 | 45.59  | 54.00  | -8.41  | 31.56 | 14.03  | Average |
| 15780.000  | 58.68  | 74.00  | -15.32 | 44.65 | 14.03  | Peak    | 15780.000 | 59.65  | 74.00  | -14.35 | 45.62 | 14.03  | Peak    |

| Middle CH  |        |        |        |       |        |         |           |        |        |        |       |        |         |
|------------|--------|--------|--------|-------|--------|---------|-----------|--------|--------|--------|-------|--------|---------|
| Horizontal |        |        |        |       |        |         | Vertical  |        |        |        |       |        |         |
| Freq       | Level  | Limit  | Over   | Read  |        |         | Freq      | Level  | Limit  | Over   | Read  |        |         |
|            |        | Line   | Limit  | Level | Factor | Remark  |           |        | Line   | Limit  | Level | Factor | Remark  |
| MHz        | dBuV/m | dBuV/m | dB     | dBuV  | dB/m   |         | MHz       | dBuV/m | dBuV/m | dB     | dBuV  | dB/m   |         |
| 5088.400   | 46.68  | 54.00  | -7.32  | 46.15 | 0.53   | Average | 5074.400  | 46.78  | 54.00  | -7.22  | 46.21 | 0.57   | Average |
| 5088.400   | 60.56  | 74.00  | -13.44 | 60.03 | 0.53   | Peak    | 5074.400  | 60.43  | 74.00  | -13.57 | 59.86 | 0.57   | Peak    |
| 5301.600   | 77.32  |        |        | 77.11 | 0.21   | Average | 5298.800  | 83.55  |        |        | 83.34 | 0.21   | Average |
| 5301.600   | 87.39  |        |        | 87.18 | 0.21   | Peak    | 5298.800  | 93.73  |        |        | 93.52 | 0.21   | Peak    |
| 5447.200   | 46.58  | 54.00  | -7.42  | 46.31 | 0.27   | Average | 5435.200  | 46.42  | 54.00  | -7.58  | 46.20 | 0.22   | Average |
| 5447.200   | 60.34  | 74.00  | -13.66 | 60.07 | 0.27   | Peak    | 5435.200  | 60.70  | 74.00  | -13.30 | 60.48 | 0.22   | Peak    |
| 7066.700   | 55.47  | 68.20  | -12.73 | 50.73 | 4.74   | Peak    | 7066.700  | 53.37  | 68.20  | -14.83 | 48.63 | 4.74   | Peak    |
| 10600.000  | 37.42  | 54.00  | -16.58 | 28.14 | 9.28   | Average | 10600.000 | 37.39  | 54.00  | -16.61 | 28.11 | 9.28   | Average |
| 10600.000  | 51.40  | 74.00  | -22.60 | 42.12 | 9.28   | Peak    | 10600.000 | 50.97  | 74.00  | -23.03 | 41.69 | 9.28   | Peak    |
| 15900.000  | 44.49  | 54.00  | -9.51  | 30.64 | 13.85  | Average | 15900.000 | 44.62  | 54.00  | -9.38  | 30.77 | 13.85  | Average |
| 15900.000  | 56.01  | 74.00  | -17.99 | 42.16 | 13.85  | Peak    | 15900.000 | 58.74  | 74.00  | -15.26 | 44.89 | 13.85  | Peak    |

| High CH    |        |        |        |       |        |         |           |        |        |        |       |        |         |
|------------|--------|--------|--------|-------|--------|---------|-----------|--------|--------|--------|-------|--------|---------|
| Horizontal |        |        |        |       |        |         | Vertical  |        |        |        |       |        |         |
| Freq       | Level  | Limit  | Over   | Read  |        |         | Freq      | Level  | Limit  | Over   | Read  |        |         |
|            |        | Line   | Limit  | Level | Factor | Remark  |           |        | Line   | Limit  | Level | Factor | Remark  |
| MHz        | dBuV/m | dBuV/m | dB     | dBuV  | dB/m   |         | MHz       | dBuV/m | dBuV/m | dB     | dBuV  | dB/m   |         |
| 5321.340   | 77.59  |        |        | 77.35 | 0.24   | Average | 5321.340  | 83.76  |        |        | 83.52 | 0.24   | Average |
| 5321.340   | 88.45  |        |        | 88.21 | 0.24   | Peak    | 5321.340  | 94.82  |        |        | 94.58 | 0.24   | Peak    |
| 5437.400   | 46.53  | 54.00  | -7.47  | 46.30 | 0.23   | Average | 5444.680  | 46.58  | 54.00  | -7.42  | 46.33 | 0.25   | Average |
| 5437.400   | 60.83  | 74.00  | -13.17 | 60.60 | 0.23   | Peak    | 5444.680  | 61.54  | 74.00  | -12.46 | 61.29 | 0.25   | Peak    |
| 7093.300   | 56.29  | 68.20  | -11.91 | 51.55 | 4.74   | Peak    | 7093.300  | 57.65  | 68.20  | -10.55 | 52.91 | 4.74   | Peak    |
| 10640.000  | 38.01  | 54.00  | -15.99 | 28.11 | 9.90   | Average | 10640.000 | 38.53  | 54.00  | -15.47 | 28.63 | 9.90   | Average |
| 10640.000  | 50.74  | 74.00  | -23.26 | 40.84 | 9.90   | Peak    | 10640.000 | 52.45  | 74.00  | -21.55 | 42.55 | 9.90   | Peak    |
| 15960.000  | 44.88  | 54.00  | -9.12  | 31.23 | 13.65  | Average | 15960.000 | 44.94  | 54.00  | -9.06  | 31.29 | 13.65  | Average |
| 15960.000  | 60.17  | 74.00  | -13.83 | 46.52 | 13.65  | Peak    | 15960.000 | 59.45  | 74.00  | -14.55 | 45.80 | 13.65  | Peak    |



802.11n HT40 mode:

| Low CH     |        |        |        |       |        |         |           |        |        |        |       |               |
|------------|--------|--------|--------|-------|--------|---------|-----------|--------|--------|--------|-------|---------------|
| Horizontal |        |        |        |       |        |         | Vertical  |        |        |        |       |               |
| Freq       | Level  | Limit  | Over   | Read  | Factor | Remark  | Freq      | Level  | Limit  | Over   | Read  | Remark        |
| MHz        | dBuV/m | dBuV/m | dB     | dBuV  |        |         | MHz       | dBuV/m | dBuV/m | dB     | dBuV  |               |
| 5075.600   | 46.82  | 54.00  | -7.18  | 46.25 | 0.57   | Average | 5140.000  | 46.49  | 54.00  | -7.51  | 46.11 | 0.38 Average  |
| 5075.600   | 60.01  | 74.00  | -13.99 | 59.44 | 0.57   | Peak    | 5140.000  | 59.96  | 74.00  | -14.04 | 59.58 | 0.38 Peak     |
| 5266.400   | 71.71  |        |        | 71.55 | 0.16   | Average | 5273.200  | 77.50  |        |        | 77.36 | 0.14 Average  |
| 5266.400   | 82.39  |        |        | 82.23 | 0.16   | Peak    | 5273.200  | 88.64  |        |        | 88.50 | 0.14 Peak     |
| 5399.600   | 46.47  | 54.00  | -7.53  | 46.35 | 0.12   | Average | 5394.400  | 46.46  | 54.00  | -7.54  | 46.33 | 0.13 Average  |
| 5399.600   | 59.83  | 74.00  | -14.17 | 59.71 | 0.12   | Peak    | 5394.400  | 60.58  | 74.00  | -13.42 | 60.45 | 0.13 Peak     |
| 7026.700   | 54.79  | 68.20  | -13.41 | 50.62 | 4.17   | Peak    | 7026.700  | 54.35  | 68.20  | -13.85 | 50.18 | 4.17 Peak     |
| 10540.000  | 48.91  | 68.20  | -19.29 | 40.13 | 8.78   | Peak    | 10540.000 | 48.93  | 68.20  | -19.27 | 40.15 | 8.78 Peak     |
| 15810.000  | 43.02  | 54.00  | -10.98 | 29.09 | 13.93  | Average | 15810.000 | 43.79  | 54.00  | -10.21 | 29.86 | 13.93 Average |
| 15810.000  | 56.91  | 74.00  | -17.09 | 42.98 | 13.93  | Peak    | 15810.000 | 56.45  | 74.00  | -17.55 | 42.52 | 13.93 Peak    |

| High CH    |        |        |        |       |        |         |           |        |        |        |       |               |
|------------|--------|--------|--------|-------|--------|---------|-----------|--------|--------|--------|-------|---------------|
| Horizontal |        |        |        |       |        |         | Vertical  |        |        |        |       |               |
| Freq       | Level  | Limit  | Over   | Read  | Factor | Remark  | Freq      | Level  | Limit  | Over   | Read  | Remark        |
| MHz        | dBuV/m | dBuV/m | dB     | dBuV  |        |         | MHz       | dBuV/m | dBuV/m | dB     | dBuV  |               |
| 5315.600   | 71.44  | 68.20  | 3.24   | 71.21 | 0.23   | Average | 5314.640  | 78.20  | 68.20  | 10.00  | 77.97 | 0.23 Average  |
| 5315.600   | 82.77  | 68.20  | 14.57  | 82.54 | 0.23   | Peak    | 5314.640  | 89.20  | 68.20  | 21.00  | 88.97 | 0.23 Peak     |
| 5352.240   | 46.47  |        |        | 46.25 | 0.22   | Average | 5352.400  | 47.96  |        |        | 47.74 | 0.22 Average  |
| 5352.240   | 61.11  |        |        | 60.89 | 0.22   | Peak    | 5352.400  | 62.35  |        |        | 62.13 | 0.22 Peak     |
| 7080.000   | 47.56  | 68.20  | -20.64 | 42.84 | 4.72   | Peak    | 7080.000  | 50.56  | 68.20  | -17.64 | 45.82 | 4.74 Peak     |
| 10620.000  | 37.53  | 54.00  | -16.47 | 27.85 | 9.68   | Average | 10620.000 | 37.32  | 54.00  | -16.68 | 27.64 | 9.68 Average  |
| 10620.000  | 51.04  | 74.00  | -22.96 | 41.36 | 9.68   | Peak    | 10620.000 | 50.57  | 74.00  | -23.43 | 40.89 | 9.68 Peak     |
| 15930.000  | 45.02  | 54.00  | -8.98  | 31.27 | 13.75  | Average | 15930.000 | 45.15  | 54.00  | -8.85  | 31.40 | 13.75 Average |
| 15930.000  | 57.71  | 74.00  | -16.29 | 43.96 | 13.75  | Peak    | 15930.000 | 57.76  | 74.00  | -16.24 | 44.01 | 13.75 Peak    |

**Above 1G (1 GHz-40 GHz) in UNII-2c:**

**802.11a mode:**

| Low CH     |        |            |            |            |        |         |           |        |            |            |            |        |         |
|------------|--------|------------|------------|------------|--------|---------|-----------|--------|------------|------------|------------|--------|---------|
| Horizontal |        |            |            |            |        |         | Vertical  |        |            |            |            |        |         |
| Freq       | Level  | Limit Line | Over Limit | Read Level | Factor | Remark  | Freq      | Level  | Limit Line | Over Limit | Read Level | Factor | Remark  |
| MHz        | dBuV/m | dBuV/m     | dB         | dBuV       | dB/m   |         | MHz       | dBuV/m | dBuV/m     | dB         | dBuV       | dB/m   |         |
| 5454.340   | 46.67  | 54.00      | -7.33      | 46.37      | 0.30   | Average | 5459.620  | 47.21  | 54.00      | -6.79      | 46.88      | 0.33   | Average |
| 5454.340   | 60.94  | 74.00      | -13.06     | 60.64      | 0.30   | Peak    | 5459.620  | 61.48  | 74.00      | -12.52     | 61.15      | 0.33   | Peak    |
| 5501.530   | 83.76  |            |            | 83.25      | 0.51   | Average | 5501.640  | 92.24  |            |            | 91.73      | 0.51   | Average |
| 5501.530   | 94.22  |            |            | 93.71      | 0.51   | Peak    | 5501.640  | 102.99 |            |            | 102.48     | 0.51   | Peak    |
| 7333.300   | 33.00  | 54.00      | -21.00     | 27.23      | 5.77   | Average | 7333.300  | 49.24  | 54.00      | -4.76      | 43.47      | 5.77   | Average |
| 7333.300   | 50.00  | 74.00      | -24.00     | 44.23      | 5.77   | Peak    | 7333.300  | 54.05  | 74.00      | -19.95     | 48.28      | 5.77   | Peak    |
| 11000.000  | 36.47  | 54.00      | -17.53     | 26.44      | 10.03  | Average | 11000.000 | 36.86  | 54.00      | -17.14     | 26.83      | 10.03  | Average |
| 11000.000  | 50.85  | 74.00      | -23.15     | 40.82      | 10.03  | Peak    | 11000.000 | 50.52  | 74.00      | -23.48     | 40.49      | 10.03  | Peak    |
| 16500.000  | 56.92  | 68.20      | -11.28     | 42.17      | 14.75  | Peak    | 16500.000 | 56.57  | 68.20      | -11.63     | 41.82      | 14.75  | Peak    |

| Middle CH  |        |            |            |            |        |         |           |        |            |            |            |        |         |
|------------|--------|------------|------------|------------|--------|---------|-----------|--------|------------|------------|------------|--------|---------|
| Horizontal |        |            |            |            |        |         | Vertical  |        |            |            |            |        |         |
| Freq       | Level  | Limit Line | Over Limit | Read Level | Factor | Remark  | Freq      | Level  | Limit Line | Over Limit | Read Level | Factor | Remark  |
| MHz        | dBuV/m | dBuV/m     | dB         | dBuV       | dB/m   |         | MHz       | dBuV/m | dBuV/m     | dB         | dBuV       | dB/m   |         |
| 5445.600   | 46.80  | 54.00      | -7.20      | 46.53      | 0.27   | Average | 5457.760  | 46.87  | 54.00      | -7.13      | 46.55      | 0.32   | Average |
| 5445.600   | 60.36  | 74.00      | -13.64     | 60.09      | 0.27   | Peak    | 5457.760  | 61.13  | 74.00      | -12.87     | 60.81      | 0.32   | Peak    |
| 5577.840   | 84.95  |            |            | 84.22      | 0.73   | Average | 5581.640  | 93.31  |            |            | 92.57      | 0.74   | Average |
| 5577.840   | 95.54  |            |            | 94.81      | 0.73   | Peak    | 5581.640  | 103.76 |            |            | 103.02     | 0.74   | Peak    |
| 5775.820   | 63.02  | 68.20      | -5.18      | 61.70      | 1.32   | Peak    | 5739.340  | 62.88  | 68.20      | -5.32      | 61.61      | 1.27   | Peak    |
| ! 7440.000 | 40.22  | 54.00      | -13.78     | 34.16      | 6.06   | Average | 7440.000  | 49.61  | 54.00      | -4.39      | 43.55      | 6.06   | Average |
| 7440.000   | 49.59  | 74.00      | -24.41     | 43.53      | 6.06   | Peak    | 7440.000  | 54.25  | 74.00      | -19.75     | 48.19      | 6.06   | Peak    |
| !11160.000 | 37.21  | 54.00      | -16.79     | 26.98      | 10.23  | Average | 11160.000 | 37.36  | 54.00      | -16.64     | 27.13      | 10.23  | Average |
| 11160.000  | 50.43  | 74.00      | -23.57     | 40.20      | 10.23  | Peak    | 11160.000 | 50.41  | 74.00      | -23.59     | 40.18      | 10.23  | Peak    |
| !16740.000 | 58.10  | 68.20      | -10.10     | 42.56      | 15.54  | Peak    | 16740.000 | 57.48  | 68.20      | -10.72     | 41.94      | 15.54  | Peak    |

| High CH    |        |            |            |            |        |         |           |        |            |            |            |        |         |
|------------|--------|------------|------------|------------|--------|---------|-----------|--------|------------|------------|------------|--------|---------|
| Horizontal |        |            |            |            |        |         | Vertical  |        |            |            |            |        |         |
| Freq       | Level  | Limit Line | Over Limit | Read Level | Factor | Remark  | Freq      | Level  | Limit Line | Over Limit | Read Level | Factor | Remark  |
| MHz        | dBuV/m | dBuV/m     | dB         | dBuV       | dB/m   |         | MHz       | dBuV/m | dBuV/m     | dB         | dBuV       | dB/m   |         |
| 5702.100   | 85.08  |            |            | 83.76      | 1.32   | Average | 5702.100  | 91.87  |            |            | 90.55      | 1.32   | Average |
| 5702.100   | 95.79  |            |            | 94.47      | 1.32   | Peak    | 5702.100  | 102.68 |            |            | 101.36     | 1.32   | Peak    |
| 5728.280   | 64.03  | 68.20      | -4.17      | 62.73      | 1.30   | Peak    | 5725.310  | 67.29  | 68.20      | -0.91      | 65.99      | 1.30   | Peak    |
| ! 7600.000 | 39.76  | 54.00      | -14.24     | 33.75      | 6.01   | Average | 7600.000  | 49.57  | 54.00      | -4.43      | 43.56      | 6.01   | Average |
| 7600.000   | 49.88  | 74.00      | -24.12     | 43.87      | 6.01   | Peak    | 7600.000  | 54.52  | 74.00      | -19.48     | 48.51      | 6.01   | Peak    |
| !11400.000 | 37.05  | 54.00      | -16.95     | 26.31      | 10.74  | Average | 11400.000 | 37.18  | 54.00      | -16.82     | 26.44      | 10.74  | Average |
| 11400.000  | 52.21  | 74.00      | -21.79     | 41.47      | 10.74  | Peak    | 11400.000 | 51.52  | 74.00      | -22.48     | 40.78      | 10.74  | Peak    |
| !17100.000 | 57.89  | 68.20      | -10.31     | 41.36      | 16.53  | Peak    | 17100.000 | 57.84  | 68.20      | -10.36     | 41.31      | 16.53  | Peak    |



**802.11n HT20 mode:**

| Low CH     |        |               |               |               |        |         |           |        |               |               |               |               |
|------------|--------|---------------|---------------|---------------|--------|---------|-----------|--------|---------------|---------------|---------------|---------------|
| Horizontal |        |               |               |               |        |         | Vertical  |        |               |               |               |               |
| Freq       | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | Factor | Remark  | Freq      | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | Factor Remark |
| MHz        | dBuV/m | dBuV/m        | dB            | dBuV          | dB/m   |         | MHz       | dBuV/m | dBuV/m        | dB            | dBuV          | dB/m          |
| 5450.600   | 46.82  | 54.00         | -7.18         | 46.53         | 0.29   | Average | 5458.410  | 47.63  | 54.00         | -6.37         | 47.30         | 0.33 Average  |
| 5450.600   | 61.79  | 74.00         | -12.21        | 61.50         | 0.29   | Peak    | 5458.410  | 63.15  | 74.00         | -10.85        | 62.82         | 0.33 Peak     |
| 5501.530   | 82.74  |               |               | 82.23         | 0.51   | Average | 5498.230  | 91.96  |               |               | 91.46         | 0.50 Average  |
| 5501.530   | 93.59  |               |               | 93.08         | 0.51   | Peak    | 5498.230  | 102.44 |               |               | 101.94        | 0.50 Peak     |
| ! 7333.300 | 48.53  | 54.00         | -5.47         | 42.76         | 5.77   | Average | 7333.300  | 48.94  | 54.00         | -5.06         | 43.27         | 5.67 Average  |
| 7333.300   | 51.49  | 74.00         | -22.51        | 45.72         | 5.77   | Peak    | 7333.300  | 51.10  | 74.00         | -22.90        | 45.33         | 5.77 Peak     |
| !11000.000 | 37.63  | 54.00         | -16.37        | 27.60         | 10.03  | Average | 11000.000 | 37.22  | 74.00         | -36.78        | 27.19         | 10.03 Average |
| 11000.000  | 50.34  | 74.00         | -23.66        | 40.31         | 10.03  | Peak    | 11000.000 | 50.42  | 74.00         | -23.58        | 40.39         | 10.03 Peak    |
| !16500.000 | 56.78  | 68.20         | -11.42        | 42.07         | 14.71  | Peak    | 16500.000 | 56.93  | 68.20         | -11.27        | 42.18         | 14.75 Peak    |

| Middle CH  |        |               |               |               |        |         |           |        |               |               |               |               |
|------------|--------|---------------|---------------|---------------|--------|---------|-----------|--------|---------------|---------------|---------------|---------------|
| Horizontal |        |               |               |               |        |         | Vertical  |        |               |               |               |               |
| Freq       | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | Factor | Remark  | Freq      | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | Factor Remark |
| MHz        | dBuV/m | dBuV/m        | dB            | dBuV          | dB/m   |         | MHz       | dBuV/m | dBuV/m        | dB            | dBuV          | dB/m          |
| 5449.780   | 46.60  | 54.00         | -7.40         | 46.32         | 0.28   | Average | 5458.140  | 46.65  | 54.00         | -7.35         | 46.32         | 0.33 Average  |
| 5449.780   | 60.77  | 74.00         | -13.23        | 60.49         | 0.28   | Peak    | 5458.140  | 60.19  | 74.00         | -13.81        | 59.86         | 0.33 Peak     |
| 5578.980   | 85.98  |               |               | 85.24         | 0.74   | Average | 5581.640  | 94.74  |               |               | 94.00         | 0.74 Average  |
| 5578.980   | 96.71  |               |               | 95.97         | 0.74   | Peak    | 5581.640  | 105.64 |               |               | 104.90        | 0.74 Peak     |
| 5774.300   | 62.43  | 68.20         | -5.77         | 61.11         | 1.32   | Peak    | 5763.660  | 63.71  | 68.20         | -4.49         | 62.41         | 1.30 Peak     |
| 7440.000   | 41.45  | 54.00         | -12.55        | 35.39         | 6.06   | Average | 7440.000  | 47.36  | 54.00         | -6.64         | 41.30         | 6.06 Average  |
| 7440.000   | 49.20  | 74.00         | -24.80        | 43.14         | 6.06   | Peak    | 7440.000  | 51.55  | 74.00         | -22.45        | 45.49         | 6.06 Peak     |
| 11160.000  | 38.13  | 54.00         | -15.87        | 27.90         | 10.23  | Average | 11160.000 | 38.10  | 54.00         | -15.90        | 27.87         | 10.23 Average |
| 11160.000  | 51.11  | 74.00         | -22.89        | 40.88         | 10.23  | Peak    | 11160.000 | 51.20  | 74.00         | -22.80        | 40.97         | 10.23 Peak    |
| 16740.000  | 57.70  | 68.20         | -10.50        | 42.12         | 15.58  | Peak    | 16740.000 | 57.28  | 68.20         | -10.92        | 41.70         | 15.58 Peak    |

| High CH    |        |               |               |               |        |         |           |        |               |               |               |               |
|------------|--------|---------------|---------------|---------------|--------|---------|-----------|--------|---------------|---------------|---------------|---------------|
| Horizontal |        |               |               |               |        |         | Vertical  |        |               |               |               |               |
| Freq       | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | Factor | Remark  | Freq      | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | Factor Remark |
| MHz        | dBuV/m | dBuV/m        | dB            | dBuV          | dB/m   |         | MHz       | dBuV/m | dBuV/m        | dB            | dBuV          | dB/m          |
| 5701.550   | 83.30  |               |               | 81.98         | 1.32   | Average | 5701.550  | 90.53  |               |               | 89.21         | 1.32 Average  |
| 5701.550   | 94.18  |               |               | 92.86         | 1.32   | Peak    | 5701.550  | 101.34 |               |               | 100.02        | 1.32 Peak     |
| 5794.610   | 63.15  | 68.20         | -5.05         | 61.83         | 1.32   | Peak    | 5725.090  | 67.27  | 68.20         | -0.93         | 65.97         | 1.30 Peak     |
| ! 7600.000 | 42.47  | 54.00         | -11.53        | 36.46         | 6.01   | Average | 7600.000  | 47.55  | 54.00         | -6.45         | 41.54         | 6.01 Average  |
| 7600.000   | 50.50  | 74.00         | -23.50        | 44.49         | 6.01   | Peak    | 7600.000  | 52.84  | 74.00         | -21.16        | 46.83         | 6.01 Peak     |
| !11400.000 | 38.12  | 54.00         | -15.88        | 27.38         | 10.74  | Average | 11400.000 | 37.83  | 54.00         | -16.17        | 27.09         | 10.74 Average |
| 11400.000  | 50.86  | 74.00         | -23.14        | 40.12         | 10.74  | Peak    | 11400.000 | 52.33  | 74.00         | -21.67        | 41.59         | 10.74 Peak    |
| !17100.000 | 58.02  | 68.20         | -10.18        | 41.44         | 16.58  | Peak    | 17107.000 | 58.03  | 68.20         | -10.17        | 41.45         | 16.58 Peak    |

802.11n HT40 mode:

| Low CH     |        |        |        |       |        |         |           |        |        |        |       |        |         |
|------------|--------|--------|--------|-------|--------|---------|-----------|--------|--------|--------|-------|--------|---------|
| Horizontal |        |        |        |       |        |         | Vertical  |        |        |        |       |        |         |
| Freq       | Level  | Limit  | Over   | Read  | Factor | Remark  | Freq      | Level  | Limit  | Over   | Read  | Factor | Remark  |
|            |        | Line   | Limit  | Level |        |         |           |        | Line   | Limit  | Level |        |         |
| MHz        | dBuV/m | dBuV/m | dB     | dBuV  | dB/m   |         | MHz       | dBuV/m | dBuV/m | dB     | dBuV  | dB/m   |         |
| 5438.870   | 47.39  | 54.00  | -6.61  | 47.16 | 0.23   | Average | 5459.800  | 50.46  | 54.00  | -3.54  | 50.13 | 0.33   | Average |
| 5438.870   | 60.92  | 74.00  | -13.08 | 60.69 | 0.23   | Peak    | 5459.800  | 67.54  | 74.00  | -6.46  | 67.21 | 0.33   | Peak    |
| 5515.570   | 78.65  |        |        | 78.11 | 0.54   | Average | 5513.750  | 88.53  |        |        | 87.99 | 0.54   | Average |
| 5515.570   | 90.17  |        |        | 89.63 | 0.54   | Peak    | 5513.750  | 99.61  |        |        | 99.07 | 0.54   | Peak    |
| 7346.700   | 41.75  | 54.00  | -12.25 | 35.94 | 5.81   | Average | 7346.700  | 43.69  | 54.00  | -10.31 | 37.85 | 5.84   | Average |
| 7346.700   | 48.63  | 74.00  | -25.37 | 42.82 | 5.81   | Peak    | 7346.700  | 51.48  | 74.00  | -22.52 | 45.67 | 5.81   | Peak    |
| 11020.000  | 36.02  | 54.00  | -17.98 | 25.89 | 10.13  | Average | 11020.000 | 36.06  | 54.00  | -17.94 | 25.93 | 10.13  | Average |
| 11020.000  | 50.41  | 74.00  | -23.59 | 40.28 | 10.13  | Peak    | 11020.000 | 50.22  | 74.00  | -23.78 | 40.09 | 10.13  | Peak    |
| 16530.000  | 56.55  | 68.20  | -11.65 | 41.74 | 14.81  | Peak    | 16530.000 | 57.10  | 68.20  | -11.10 | 42.27 | 14.83  | Peak    |

| Middle CH  |        |        |        |       |        |         |           |        |        |        |       |        |         |
|------------|--------|--------|--------|-------|--------|---------|-----------|--------|--------|--------|-------|--------|---------|
| Horizontal |        |        |        |       |        |         | Vertical  |        |        |        |       |        |         |
| Freq       | Level  | Limit  | Over   | Read  | Factor | Remark  | Freq      | Level  | Limit  | Over   | Read  | Factor | Remark  |
|            |        | Line   | Limit  | Level |        |         |           |        | Line   | Limit  | Level |        |         |
| MHz        | dBuV/m | dBuV/m | dB     | dBuV  | dB/m   |         | MHz       | dBuV/m | dBuV/m | dB     | dBuV  | dB/m   |         |
| 5451.300   | 46.65  | 54.00  | -7.35  | 46.36 | 0.29   | Average | 5452.060  | 46.71  | 54.00  | -7.29  | 46.41 | 0.30   | Average |
| 5451.300   | 60.92  | 74.00  | -13.08 | 60.63 | 0.29   | Peak    | 5452.060  | 60.13  | 74.00  | -13.87 | 59.83 | 0.30   | Peak    |
| 5556.180   | 79.88  |        |        | 79.22 | 0.66   | Average | 5554.660  | 88.98  |        |        | 88.32 | 0.66   | Average |
| 5556.180   | 90.48  |        |        | 89.82 | 0.66   | Peak    | 5554.660  | 99.50  |        |        | 98.84 | 0.66   | Peak    |
| 5772.020   | 62.03  | 68.20  | -6.17  | 60.71 | 1.32   | Peak    | 5760.620  | 61.96  | 68.20  | -6.24  | 60.66 | 1.30   | Peak    |
| 7400.000   | 38.22  | 54.00  | -15.78 | 32.25 | 5.97   | Average | 7400.000  | 42.58  | 54.00  | -11.42 | 36.61 | 5.97   | Average |
| 7400.000   | 49.24  | 74.00  | -24.76 | 43.27 | 5.97   | Peak    | 7400.000  | 50.84  | 74.00  | -23.16 | 44.87 | 5.97   | Peak    |
| 11100.000  | 38.21  | 54.00  | -15.79 | 27.84 | 10.37  | Average | 11100.000 | 37.07  | 54.00  | -16.93 | 26.70 | 10.37  | Average |
| 11100.000  | 51.17  | 74.00  | -22.83 | 40.80 | 10.37  | Peak    | 11100.000 | 51.29  | 74.00  | -22.71 | 40.92 | 10.37  | Peak    |
| 16650.000  | 56.89  | 68.20  | -11.31 | 41.91 | 14.98  | Peak    | 16650.000 | 57.40  | 68.20  | -10.80 | 42.42 | 14.98  | Peak    |

| High CH    |        |        |        |       |        |         |           |        |        |        |       |        |         |
|------------|--------|--------|--------|-------|--------|---------|-----------|--------|--------|--------|-------|--------|---------|
| Horizontal |        |        |        |       |        |         | Vertical  |        |        |        |       |        |         |
| Freq       | Level  | Limit  | Over   | Read  | Factor | Remark  | Freq      | Level  | Limit  | Over   | Read  | Factor | Remark  |
|            |        | Line   | Limit  | Level |        |         |           |        | Line   | Limit  | Level |        |         |
| MHz        | dBuV/m | dBuV/m | dB     | dBuV  | dB/m   |         | MHz       | dBuV/m | dBuV/m | dB     | dBuV  | dB/m   |         |
| 5665.900   | 80.38  |        |        | 79.24 | 1.14   | Average | 5673.700  | 89.03  |        |        | 87.85 | 1.18   | Average |
| 5665.900   | 91.50  |        |        | 90.36 | 1.14   | Peak    | 5673.700  | 100.19 |        |        | 99.01 | 1.18   | Peak    |
| 5797.300   | 63.24  | 68.20  | -4.96  | 61.92 | 1.32   | Peak    | 5725.600  | 63.93  | 68.20  | -4.27  | 62.63 | 1.30   | Peak    |
| 7560.000   | 38.75  | 54.00  | -15.25 | 32.66 | 6.09   | Average | 7560.000  | 42.65  | 54.00  | -11.35 | 36.56 | 6.09   | Average |
| 7560.000   | 49.05  | 74.00  | -24.95 | 42.96 | 6.09   | Peak    | 7560.000  | 51.75  | 74.00  | -22.25 | 45.66 | 6.09   | Peak    |
| 11340.000  | 39.09  | 54.00  | -14.91 | 28.63 | 10.46  | Average | 11340.000 | 39.03  | 54.00  | -14.97 | 28.57 | 10.46  | Average |
| 11340.000  | 52.17  | 74.00  | -21.83 | 41.71 | 10.46  | Peak    | 11340.000 | 50.52  | 74.00  | -23.48 | 40.06 | 10.46  | Peak    |
| 17010.000  | 58.41  | 68.20  | -9.79  | 42.70 | 15.71  | Peak    | 17010.000 | 58.19  | 68.20  | -10.01 | 42.48 | 15.71  | Peak    |