

## FCC Test Report

**Report No.:** RFBBQZ-WTW-P20110514-3

**FCC ID:** PY321200536

**Test Model:** Perseverance

**Series Model:** Ingenuity, Phobos, Deimos

**Received Date:** Nov. 17, 2020

**Test Date:** Nov. 21, 2020 to Apr. 01, 2021

**Issued Date:** July 19, 2021

**Applicant:** NETGEAR, Inc.

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**Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch  
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**FCC Registration /  
Designation Number:** 723255 / TW2022



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### Release Control Record

| Issue No.              | Description       | Date Issued   |
|------------------------|-------------------|---------------|
| RFBBQZ-WTW-P20110514-3 | Original release. | July 19, 2021 |

## 1 Certificate of Conformity

**Product:** WiFi Device

**Brand:** NETGEAR

**Test Model:** Perseverance

**Series Model** Ingenuity, Phobos, Deimos

**Sample Status:** Engineering sample

**Applicant:** NETGEAR, Inc.

**Test Date:** Nov. 21, 2020 to Apr. 01, 2021

**Standard:** 47 CFR FCC Part 15, Subpart E (Section 15.407)  
ANSI C63.10: 2013

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

**Prepared by :**  , **Date:** July 19, 2021  
Claire Kuan / Specialist

**Approved by :**  , **Date:** July 19, 2021  
Clark Lin / Technical Manager

## 2 Summary of Test Results

| 47 CFR FCC Part 15, Subpart E (Section 15.407) |  |        |  |
|--|--|--------|--|
| FCC Clause                                     | Test Item  | Result | Remarks  |
| 15.407(b)(8)                                   | AC Power Conducted Emissions                     | PASS   | Meet the requirement of limit. Minimum passing margin is -17.48dB at 0.49766MHz. |
| 15.407(b)(5)(8)                                | Radiated Emissions                               | PASS   | Meet the requirement of limit. Minimum passing margin is -0.1dB at 7129.2MHz.    |
| 15.407(b)(6)                                   | In-Band Emission (Mask)                          | PASS   | Meet the requirement of limit.   |
| 15.407(a)(4/5/6/7/8)                           | Max Average Transmit Power                       | PASS   | Meet the requirement of limit.   |
| 15.407(a)(10)                                  | Emission Bandwidth Measurement                   | PASS   | Meet the requirement of limit.   |
| 15.407(a)(4/5/6/7/8)                           | Peak Power Spectral Density                      | PASS   | Meet the requirement of limit.   |
| 15.407 (d)(6)                                  | Contention-based Protocol.                       | PASS   | Meet the requirement of limit.   |
| 15.407(g)                                      | Frequency Stability                              | PASS   | Meet the requirement of limit.   |
| 15.407(d)                                      | Operational restrictions for 6 GHz U-NII devices | PASS   | Declaration by applicant   |
| 15.203   | Antenna Requirement                              | PASS   | Antenna connector is i-pex(MHF) not a standard connector.                        |

### Note:

Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

### 2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

| Measurement                        | Frequency      | Expanded Uncertainty (k=2) ( $\pm$ ) |
|------------------------------------|----------------|--------------------------------------|
| Conducted Emissions at mains ports | 150kHz ~ 30MHz | 1.9 dB                               |
| Radiated Emissions up to 1 GHz     | 9kHz ~ 30MHz   | 3.1 dB                               |
|                                    | 30MHz ~ 1GHz   | 5.5 dB                               |
| Radiated Emissions above 1 GHz     | 1GHz ~ 18GHz   | 5.1 dB                               |
|                                    | 18GHz ~ 40GHz  | 5.3 dB                               |

### 2.2 Modification Record

There were no modifications required for compliance.

### 3 General Information

#### 3.1 General Description of EUT

|                       |   |
|-----------------------|---|
| Product               | WiFi Device   |
| Brand                 | NETGEAR   |
| Test Model            | Perseverance  |
| Series Model          | Ingenuity, Phobos, Deimos   |
| Status of EUT         | Engineering sample  |
| Power Supply Rating   | 19Vdc from power adapter  |
| Modulation Type       | 1024QAM for OFDMA in 11ax HE mode   |
| Modulation Technology | OFDMA   |
| Transfer Rate         | 802.11ax: up to 4803.9 Mbps   |
| Operating Frequency   | 6.115 ~ 6.415GHz, 6.435 ~ 6.525GHz, 6.525 ~ 6.875GHz, 6.875 ~ 7.115GHz  |
| Number of Channel     | 802.11a, 802.11ax (HE20): 51<br>802.11ax (HE40): 25<br>802.11ax (HE80): 12<br>802.11ax (HE160): 6   |
| Output Power          | <b>NSS1</b><br><b>CDD Mode:</b><br><b>6.105 ~ 6.425GHz:</b> EIRP: 20.15 dBm / 103.514 mW<br><b>6.425 ~ 6.525GHz:</b> EIRP: 20.15 dBm / 103.514 mW<br><b>6.525 ~ 6.875GHz:</b> EIRP: 19.65 dBm / 92.257 mW<br><b>6.875 ~ 7.125GHz:</b> EIRP: 19.95 dBm / 98.855 mW<br><b>Beamforming Mode:</b><br><b>6.105 ~ 6.425GHz:</b> EIRP: 26.45 dBm / 441.57 mW<br><b>6.425 ~ 6.525GHz:</b> EIRP: 26.15 dBm / 412.098 mW<br><b>6.525 ~ 6.875GHz:</b> EIRP: 26.55 dBm / 451.856 mW<br><b>6.875 ~ 7.125GHz:</b> EIRP: 26.25 dBm / 421.697 mW<br><b>NSS4</b><br><b>SDM Mode:</b><br><b>6.105 ~ 6.425GHz:</b> EIRP: 27.05 dBm / 506.991 mW<br><b>6.425 ~ 6.525GHz:</b> EIRP: 26.25 dBm / 421.697 mW<br><b>6.525 ~ 6.875GHz:</b> EIRP: 26.25 dBm / 421.697 mW<br><b>6.875 ~ 7.125GHz:</b> EIRP: 26.35 dBm / 431.519 mW<br><b>Beamforming Mode:</b><br><b>6.105 ~ 6.425GHz:</b> EIRP: 27.05 dBm / 506.991 mW<br><b>6.425 ~ 6.525GHz:</b> EIRP: 26.35 dBm / 431.519 mW<br><b>6.525 ~ 6.875GHz:</b> EIRP: 26.25 dBm / 421.697 mW<br><b>6.875 ~ 7.125GHz:</b> EIRP: 26.55 dBm / 451.856 mW |
| Antenna Type          | Refer to Note   |
| Antenna Connector     | Refer to Note   |
| Accessory Device      | Adapter x1  |
| Data Cable Supplied   | NA  |

Note:

1. The EUT has below product names and model names which are identical to each other in all aspects except for the followings:

| Product Name | Model Name   | Description                               | Equipment Class |
|--------------|--------------|---|-----------------|
| WiFi Device  | Perseverance | Function: Master<br>WAN port*1;LAN port*4 | 6ID             |
| WiFi Device  | Ingenuity    | Function: Master<br>WAN port*1;LAN port*4 | 6ID             |
| WiFi Device  | Phobos       | Function: Master + Client<br>LAN port*4   | 6PP             |
| WiFi Device  | Deimos       | Function: Master + Client<br>LAN port*4   | 6PP             |

Note: From the above models, model: Perseverance was selected as representative model for the test and its data was recorded in this report.

2. The EUT has two radios as following table:

| Radio 1     | Radio 2                 | Radio 3                  | Radio 3   |
|-------------|-------------------------|--------------------------|-----------|
| WLAN 2.4GHz | WLAN 5GHz<br>(Low Band) | WLAN 5GHz<br>(High Band) | WLAN 6GHz |

3. Simultaneously transmission condition.

| Condition | Technology  |                         |                          |           |
|-----------|-------------|-------------------------|--------------------------|-----------|
| 1         | WLAN 2.4GHz | WLAN 5GHz<br>(Low Band) | WLAN 5GHz<br>(High Band) | WLAN 6GHz |

Note: The emission of the simultaneous operation has been evaluated and no non-compliance was found.

4. The device has two kinds pin to pin FEM as following table:

| No. | FEM                    |
|-----|------------------------|
| 1   | 1 <sup>st</sup> source |
| 2   | 2 <sup>nd</sup> source |

Note: From the above FEMs, the worse case was found in 1<sup>st</sup> source. Therefore only the test data of the mode was recorded in this report.

5. The EUT must be supplied with a power adapter as following table:

| No. | Brand   | Model No.   | P/N          | Spec.  |
|-----|---------|-------------|--------------|--|
| 1   | NETGEAR | AD2003F10   | 332-11488-01 | Input: 100-240Vac, 1.5A, 0-60Hz<br>Output: 19Vdc, 3.16A<br>DC Output cable: Unshielded, 1.8m |
| 2   | NETGEAR | 2AEC060K1 L | 332-11578-01 | Input: 100-240Vac, 1.5A, 0-60Hz<br>Output: 19Vdc, 3.16A<br>DC Output cable: Unshielded, 1.8m |

Note: From the above adapters, the AC Power Conducted Emissions and Radiated Emissions worse case was found in **Adapter 1**. Therefore only the test data of the mode was recorded in this report.



6. The antennas provided to the EUT, please refer to the following table:

| Antenna No. | RF Chain No. | Antenna Net Gain(dBi) | Frequency range | Antenna Type | Connector Type |
|-------------|--------------|-----------------------|-----------------|--------------|----------------|
| 6E-1        | 6G Chain0    | 4.09                  | 5.925~6.425GHz  | Dipole       | i-pex(MHF)     |
|             |              | 1.78                  | 6.425~6.525GHz  |              |                |
|             |              | 3.37                  | 6.525~6.875GHz  |              |                |
|             |              | 4.31                  | 6.875~7.125GHz  |              |                |
| 6E-2        | 6G Chain1    | 4.39                  | 5.925~6.425GHz  | Dipole       | i-pex(MHF)     |
|             |              | 2.16                  | 6.425~6.525GHz  |              |                |
|             |              | 3.51                  | 6.525~6.875GHz  |              |                |
|             |              | 4.45                  | 6.875~7.125GHz  |              |                |
| 6E-3        | 6G Chain2    | 3.77                  | 5.925~6.425GHz  | Dipole       | i-pex(MHF)     |
|             |              | 2.62                  | 6.425~6.525GHz  |              |                |
|             |              | 3.75                  | 6.525~6.875GHz  |              |                |
|             |              | 4.48                  | 6.875~7.125GHz  |              |                |
| 6E-4        | 6G Chain3    | 4.38                  | 5.925~6.425GHz  | Dipole       | i-pex(MHF)     |
|             |              | 4.38                  | 6.425~6.525GHz  |              |                |
|             |              | 4.48                  | 6.525~6.875GHz  |              |                |
|             |              | 3.9                   | 6.875~7.125GHz  |              |                |

7. The EUT incorporates a MIMO function:

| Modulation Mode         | CDD Mode | Beamforming Mode | TX Function |
|-------------------------|----------|------------------|-------------|
| <b>802.11a</b>          | Support  | Non-Support      | 4TX         |
| <b>802.11ax (HE20)</b>  | Support  | Support          | 4TX         |
| <b>802.11ax (HE40)</b>  | Support  | Support          | 4TX         |
| <b>802.11ax (HE80)</b>  | Support  | Support          | 4TX         |
| <b>802.11ax (HE160)</b> | Support  | Support          | 4TX         |

\* The EUT support Beamforming and CDD mode, therefore both mode were investigated and the worst case scenario was identified. The worst case data were presented in test report.

8. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

9. The above Antenna information is declared by manufacturer, the laboratory shall not be held responsible.

### 3.2 Description of Test Modes

#### For 6105 ~ 6425MHz (U-NII-5 band)

16 channels are provided for 802.11a and 802.11ax (HE20):

| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| 33      | 6115 MHz  | 37      | 6135 MHz  | 41      | 6155 MHz  | 45      | 6175 MHz  |
| 49      | 6195 MHz  | 53      | 6215 MHz  | 57      | 6235 MHz  | 61      | 6255 MHz  |
| 65      | 6275 MHz  | 69      | 6295 MHz  | 73      | 6315 MHz  | 77      | 6335 MHz  |
| 81      | 6355 MHz  | 85      | 6375 MHz  | 89      | 6395 MHz  | 93      | 6415 MHz  |

8 channels are provided for 802.11ax (HE40):

| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| 35      | 6125 MHz  | 43      | 6165 MHz  | 51      | 6205 MHz  | 59      | 6245 MHz  |
| 67      | 6285 MHz  | 75      | 6325 MHz  | 83      | 6365 MHz  | 91      | 6405 MHz  |

4 channel is provided for 802.11ax (HE80):

| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| 39      | 6145 MHz  | 55      | 6225 MHz  | 71      | 6305 MHz  | 87      | 6385 MHz  |

2 channel is provided for 802.11ax (HE160):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 47      | 6185 MHz  | 79      | 6345 MHz  |

**For 6425 ~ 6525MHz (U-NII-6 band)**

5 channels are provided for 802.11a and 802.11ax (HE20):

| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| 97      | 6435 MHz  | 101     | 6455 MHz  | 105     | 6475 MHz  | 109     | 6495 MHz  |
| 113     | 6515 MHz  |         |           |         |           |         |           |

3 channels are provided for 802.11ax (HE40):

| Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|
| 99      | 6445 MHz  | 107     | 6485 MHz  | *115    | 6525 MHz  |

2 channel is provided for 802.11ax (HE80):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 103     | 6465 MHz  | *119    | 6545 MHz  |

1 channel is provided for 802.11ax (HE160):

| Channel | Frequency |
|---------|-----------|
| *111    | 6505 MHz  |

Note: \* mean this's straddle channel.

**For 6525 ~ 6875MHz (U-NII-7 band)**

18 channels are provided for 802.11a and 802.11ax (HE20):

| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| 117     | 6535 MHz  | 121     | 6555 MHz  | 125     | 6575 MHz  | 129     | 6595 MHz  |
| 133     | 6615 MHz  | 137     | 6635 MHz  | 141     | 6655 MHz  | 145     | 6675 MHz  |
| 149     | 6695 MHz  | 153     | 6715 MHz  | 157     | 6735 MHz  | 161     | 6755 MHz  |
| 165     | 6775 MHz  | 169     | 6795 MHz  | 173     | 6815 MHz  | 177     | 6835 MHz  |
| 181     | 6855 MHz  | *185    | 6875 MHz  |         |           |         |           |

9 channels are provided for 802.11ax (HE40):

| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| 123     | 6565 MHz  | 131     | 6605 MHz  | 139     | 6645 MHz  | 147     | 6685 MHz  |
| 155     | 6725 MHz  | 163     | 6765 MHz  | 171     | 6805 MHz  | 179     | 6845 MHz  |
| *187    | 6885 MHz  |         |           |         |           |         |           |

4 channels are provided for 802.11ax (HE80):

| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| 135     | 6625 MHz  | 151     | 6705 MHz  | 167     | 6785 MHz  | *183    | 6865 MHz  |

2 channel is provided for 802.11ax (HE160):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 143     | 6665 MHz  | *175    | 6825 MHz  |

Note: \* mean this's straddle channel.

**For 6875 ~ 7125MHz (U-NII-8 band):**

12 channels are provided for 802.11a, 802.11ax (HE20):

| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| 189     | 6895 MHz  | 193     | 6915 MHz  | 197     | 6935 MHz  | 201     | 6955 MHz  |
| 205     | 6975 MHz  | 209     | 6995 MHz  | 213     | 7015 MHz  | 217     | 7035 MHz  |
| 221     | 7055 MHz  | 225     | 7075 MHz  | 229     | 7095 MHz  | 233     | 7115 MHz  |

5 channels are provided for 802.11ax (HE40):

| Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|
| 195     | 6925 MHz  | 203     | 6965 MHz  | 211     | 7005 MHz  |
| 219     | 7045 MHz  | 227     | 7085 MHz  |         |           |

2 channel is provided for 802.11ax (HE80):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 199     | 6945 MHz  | 215     | 7025 MHz  |

1 channel is provided for 802.11ax (HE160):

| Channel | Frequency |
|---------|-----------|
| 207     | 6985 MHz  |

### 3.2.1 Test Mode Applicability and Tested Channel Detail

| EUT Configure Mode | Applicable To |       |     |     |     |      | Description |
|--------------------|---------------|-------|-----|-----|-----|------|-------------|
|                    | RE $\geq$ 1G  | RE<1G | IBE | PLC | CBP | APCM |             |
| 1                  | √             | -     | √   | -   | -   | √    | NSS1        |
| 2                  | √             | √     | √   | √   | √   | √    | NSS4        |

Where **RE $\geq$ 1G**: Radiated Emission above 1GHz  
**RE<1G**: Radiated Emission below 1GHz  
**PLC**: Power Line Conducted Emission  
**APCM**: Antenna Port Conducted Measurement  
**IBE**: In-Band Emission (MASK)  
**CBP**: Contention Based Protocol

#### Radiated Emission Measurement (Above 1GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

| CDD Mode & SDM Mode |                  |                   |                         |                       |                 |                     |
|---------------------|------------------|-------------------|-------------------------|-----------------------|-----------------|---------------------|
| Mode                | FREQ. Band (MHz) | Available Channel | Tested Channel          | Modulation Technology | Modulation Type | Data Rate Parameter |
| 802.11a             | 6115-6415        | 33 to 93          | 33, 61, 93              | OFDMA                 | BPSK            | MCS0                |
|                     | 6435-6515        | 97 to 113         | 97, 105, 113            | OFDMA                 | BPSK            | MCS0                |
|                     | 6535-6875        | 117 to 185        | 117, 153, 181, 185      | OFDMA                 | BPSK            | MCS0                |
|                     | 6875-7115        | 185 to 233        | 185, 213, 233           | OFDMA                 | BPSK            | MCS0                |
| 802.11ax (HE20)     | 6115-6415        | 33 to 93          | 33, 61, 93              | OFDMA                 | BPSK            | MCS0                |
|                     | 6435-6515        | 97 to 113         | 97, 105, 113            | OFDMA                 | BPSK            | MCS0                |
|                     | 6535-6875        | 117 to 185        | 117, 153, 181, 185      | OFDMA                 | BPSK            | MCS0                |
|                     | 6875-7115        | 185 to 233        | 185, 213, 229, 233      | OFDMA                 | BPSK            | MCS0                |
| 802.11ax (HE40)     | 6125-6405        | 35 to 91          | 35, 59, 91              | OFDMA                 | BPSK            | MCS0                |
|                     | 6445 to 6525     | 99 to 115         | 99, 107, 115            | OFDMA                 | BPSK            | MCS0                |
|                     | 6525 to 6885     | 115 to 187        | 115, 123, 155, 179, 187 | OFDMA                 | BPSK            | MCS0                |
|                     | 6885 to 7085     | 187 to 227        | 187, 211, 227           | OFDMA                 | BPSK            | MCS0                |
| 802.11ax (HE80)     | 6145-6385        | 39 to 87          | 39, 55, 87              | OFDMA                 | BPSK            | MCS0                |
|                     | 6465-6525        | 103 to 119        | 103, 119                | OFDMA                 | BPSK            | MCS0                |
|                     | 6525-6875        | 119 to 183        | 119, 135, 151, 167, 183 | OFDMA                 | BPSK            | MCS0                |
|                     | 6875-7025        | 183 to 215        | 183, 199, 215           | OFDMA                 | BPSK            | MCS0                |
| 802.11ax (HE160)    | 6185-6385        | 47 to 79          | 47, 79                  | OFDMA                 | BPSK            | MCS0                |
|                     | 6505             | 111               | 111                     | OFDMA                 | BPSK            | MCS0                |
|                     | 6525-6875        | 143 to 175        | 143, 175                | OFDMA                 | BPSK            | MCS0                |
|                     | 6985             | 207               | 207                     | OFDMA                 | BPSK            | MCS0                |

### Radiated Emission Measurement (Below 1GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

| SDM Mode         |                  |                   |                |                       |                 |                     |
|------------------|------------------|-------------------|----------------|-----------------------|-----------------|---------------------|
| Mode             | FREQ. Band (MHz) | Available Channel | Tested Channel | Modulation Technology | Modulation Type | Data Rate Parameter |
| 802.11ax (HE160) | 6185-6385        | 47 to 79          | 79             | OFDMA                 | BPSK            | MCS0                |
|                  | 6505             | 111               |                |                       |                 |                     |
|                  | 6525-6875        | 143 to 175        |                |                       |                 |                     |
|                  | 6985             | 207               |                |                       |                 |                     |

### In-Band Emission (MASK) Measurement:

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

| CDD Mode & SDM Mode |                  |                   |                         |                       |                 |                     |
|---------------------|------------------|-------------------|-------------------------|-----------------------|-----------------|---------------------|
| Mode                | FREQ. Band (MHz) | Available Channel | Tested Channel          | Modulation Technology | Modulation Type | Data Rate Parameter |
| 802.11a             | 6115-6415        | 33 to 93          | 33, 61, 93              | OFDMA                 | BPSK            | MCS0                |
|                     | 6435-6515        | 97 to 113         | 97, 105, 113            | OFDMA                 | BPSK            | MCS0                |
|                     | 6535-6875        | 117 to 185        | 117, 153, 181, 185      | OFDMA                 | BPSK            | MCS0                |
|                     | 6875-7115        | 185 to 233        | 185, 213, 233           | OFDMA                 | BPSK            | MCS0                |
| 802.11ax (HE20)     | 6115-6415        | 33 to 93          | 33, 61, 93              | OFDMA                 | BPSK            | MCS0                |
|                     | 6435-6515        | 97 to 113         | 97, 105, 113            | OFDMA                 | BPSK            | MCS0                |
|                     | 6535-6875        | 117 to 185        | 117, 153, 181, 185      | OFDMA                 | BPSK            | MCS0                |
|                     | 6875-7115        | 185 to 233        | 185, 213, 229, 233      | OFDMA                 | BPSK            | MCS0                |
| 802.11ax (HE40)     | 6125-6405        | 35 to 91          | 35, 59, 91              | OFDMA                 | BPSK            | MCS0                |
|                     | 6445 to 6525     | 99 to 115         | 99, 107, 115            | OFDMA                 | BPSK            | MCS0                |
|                     | 6525 to 6885     | 115 to 187        | 115, 123, 155, 179, 187 | OFDMA                 | BPSK            | MCS0                |
|                     | 6885 to 7085     | 187 to 227        | 187, 211, 227           | OFDMA                 | BPSK            | MCS0                |
| 802.11ax (HE80)     | 6145-6385        | 39 to 87          | 39, 55, 87              | OFDMA                 | BPSK            | MCS0                |
|                     | 6465-6525        | 103 to 119        | 103, 119                | OFDMA                 | BPSK            | MCS0                |
|                     | 6525-6875        | 119 to 183        | 119, 135, 151, 167, 183 | OFDMA                 | BPSK            | MCS0                |
|                     | 6875-7025        | 183 to 215        | 183, 199, 215           | OFDMA                 | BPSK            | MCS0                |
| 802.11ax (HE160)    | 6185-6385        | 47 to 79          | 47, 79                  | OFDMA                 | BPSK            | MCS0                |
|                     | 6505             | 111               | 111                     | OFDMA                 | BPSK            | MCS0                |
|                     | 6525-6875        | 143 to 175        | 143, 175                | OFDMA                 | BPSK            | MCS0                |
|                     | 6985             | 207               | 207                     | OFDMA                 | BPSK            | MCS0                |

### Power Line Conducted Emission Measurement:

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

| SDM Mode         |  |                                      |                |                       |                 |                     |
|------------------|--|--------------------------------------|----------------|-----------------------|-----------------|---------------------|
| Mode             | FREQ. Band (MHz)                       | Available Channel                    | Tested Channel | Modulation Technology | Modulation Type | Data Rate Parameter |
| 802.11ax (HE160) | 6185-6385<br>6505<br>6525-6875<br>6985 | 47 to 79<br>111<br>143 to 175<br>207 | 79             | OFDMA                 | BPSK            | MCS0                |

### Antenna Port Conducted Measurement:

- This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

| CDD Mode & SDM Mode |                  |                   |                         |                       |                 |                     |
|---------------------|------------------|-------------------|-------------------------|-----------------------|-----------------|---------------------|
| Mode                | FREQ. Band (MHz) | Available Channel | Tested Channel          | Modulation Technology | Modulation Type | Data Rate Parameter |
| 802.11a (Only NSS1) | 6115-6415        | 33 to 93          | 33, 61, 93              | OFDMA                 | BPSK            | MCS0                |
|                     | 6435-6515        | 97 to 113         | 97, 105, 113            | OFDMA                 | BPSK            | MCS0                |
|                     | 6535-6875        | 117 to 185        | 117, 153, 181, 185      | OFDMA                 | BPSK            | MCS0                |
|                     | 6875-7115        | 185 to 233        | 185, 213, 233           | OFDMA                 | BPSK            | MCS0                |
| 802.11ax (HE20)     | 6115-6415        | 33 to 93          | 33, 61, 93              | OFDMA                 | BPSK            | MCS0                |
|                     | 6435-6515        | 97 to 113         | 97, 105, 113            | OFDMA                 | BPSK            | MCS0                |
|                     | 6535-6875        | 117 to 185        | 117, 153, 181, 185      | OFDMA                 | BPSK            | MCS0                |
|                     | 6875-7115        | 185 to 233        | 185, 213, 229, 233      | OFDMA                 | BPSK            | MCS0                |
| 802.11ax (HE40)     | 6125-6405        | 35 to 91          | 35, 59, 91              | OFDMA                 | BPSK            | MCS0                |
|                     | 6445 to 6525     | 99 to 115         | 99, 107, 115            | OFDMA                 | BPSK            | MCS0                |
|                     | 6525 to 6885     | 115 to 187        | 115, 123, 155, 179, 187 | OFDMA                 | BPSK            | MCS0                |
|                     | 6885 to 7085     | 187 to 227        | 187, 211, 227           | OFDMA                 | BPSK            | MCS0                |
| 802.11ax (HE80)     | 6145-6385        | 39 to 87          | 39, 55, 87              | OFDMA                 | BPSK            | MCS0                |
|                     | 6465-6525        | 103 to 119        | 103, 119                | OFDMA                 | BPSK            | MCS0                |
|                     | 6525-6875        | 119 to 183        | 119, 135, 151, 167, 183 | OFDMA                 | BPSK            | MCS0                |
|                     | 6875-7025        | 183 to 215        | 183, 199, 215           | OFDMA                 | BPSK            | MCS0                |
| 802.11ax (HE160)    | 6185-6385        | 47 to 79          | 47, 79                  | OFDMA                 | BPSK            | MCS0                |
|                     | 6505             | 111               | 111                     | OFDMA                 | BPSK            | MCS0                |
|                     | 6525-6875        | 143 to 175        | 143, 175                | OFDMA                 | BPSK            | MCS0                |
|                     | 6985             | 207               | 207                     | OFDMA                 | BPSK            | MCS0                |



| Beamforming Mode |                  |                   |                         |                       |                 |                     |
|------------------|------------------|-------------------|-------------------------|-----------------------|-----------------|---------------------|
| Mode             | FREQ. Band (MHz) | Available Channel | Tested Channel          | Modulation Technology | Modulation Type | Data Rate Parameter |
| 802.11ax (HE20)  | 6115-6415        | 33 to 93          | 33, 61, 93              | OFDMA                 | BPSK            | MCS0                |
|                  | 6435-6515        | 97 to 113         | 97, 105, 113            | OFDMA                 | BPSK            | MCS0                |
|                  | 6535-6875        | 117 to 185        | 117, 153, 181, 185      | OFDMA                 | BPSK            | MCS0                |
|                  | 6875-7115        | 185 to 233        | 185, 213, 229, 233      | OFDMA                 | BPSK            | MCS0                |
| 802.11ax (HE40)  | 6125-6405        | 35 to 91          | 35, 59, 91              | OFDMA                 | BPSK            | MCS0                |
|                  | 6445 to 6525     | 99 to 115         | 99, 107, 115            | OFDMA                 | BPSK            | MCS0                |
|                  | 6525 to 6885     | 115 to 187        | 115, 123, 155, 179, 187 | OFDMA                 | BPSK            | MCS0                |
|                  | 6885 to 7085     | 187 to 227        | 187, 211, 227           | OFDMA                 | BPSK            | MCS0                |
| 802.11ax (HE80)  | 6145-6385        | 39 to 87          | 39, 55, 87              | OFDMA                 | BPSK            | MCS0                |
|                  | 6465-6525        | 103 to 119        | 103, 119                | OFDMA                 | BPSK            | MCS0                |
|                  | 6525-6875        | 119 to 183        | 119, 135, 151, 167, 183 | OFDMA                 | BPSK            | MCS0                |
|                  | 6875-7025        | 183 to 215        | 183, 199, 215           | OFDMA                 | BPSK            | MCS0                |
| 802.11ax (HE160) | 6185-6385        | 47 to 79          | 47, 79                  | OFDMA                 | BPSK            | MCS0                |
|                  | 6505             | 111               | 111                     | OFDMA                 | BPSK            | MCS0                |
|                  | 6525-6875        | 143 to 175        | 143, 175                | OFDMA                 | BPSK            | MCS0                |
|                  | 6985             | 207               | 207                     | OFDMA                 | BPSK            | MCS0                |

#### Contention Based Protocol Measurement:

Following channel(s) was (were) selected for the final test as listed below.

| Mode             | FREQ. Band (MHz) | Available Channel | Tested Channel | Modulation Technology | Modulation Type | Data Rate Parameter |
|------------------|------------------|-------------------|----------------|-----------------------|-----------------|---------------------|
| 802.11ax (HE20)  | 6115-6415        | 33 to 93          | 33             | OFDMA                 | BPSK            | MCS0                |
|                  | 6435-6515        | 97 to 113         | 97             | OFDMA                 | BPSK            | MCS0                |
|                  | 6535-6875        | 117 to 185        | 149            | OFDMA                 | BPSK            | MCS0                |
|                  | 6875-7115        | 185 to 233        | 193            | OFDMA                 | BPSK            | MCS0                |
| 802.11ax (HE160) | 6185-6385        | 47 to 79          | 47             | OFDMA                 | BPSK            | MCS0                |
|                  | 6505             | 111               | 111            | OFDMA                 | BPSK            | MCS0                |
|                  | 6525-6875        | 143 to 175        | 143            | OFDMA                 | BPSK            | MCS0                |
|                  | 6985             | 207               | 207            | OFDMA                 | BPSK            | MCS0                |

#### Test Condition:

| Applicable To | Environmental Conditions                              | Input Power  | Tested By                         |
|---------------|---|--------------|-----------------------------------|
| RE $\geq$ 1G  | 25deg. C, 65%RH<br>25deg. C, 65%RH<br>23deg. C, 70%RH | 120Vac, 60Hz | Carter Lin<br>Ryan Du<br>Tom Yang |
| RE<1G         | 22deg. C, 70%RH                                       | 120Vac, 60Hz | Ryan Du                           |
| PLC           | 25deg. C, 69%RH                                       | 120Vac, 60Hz | Sampson Chen                      |
| APCM          | 25deg. C, 60%RH                                       | 120Vac, 60Hz | Eric Peng                         |

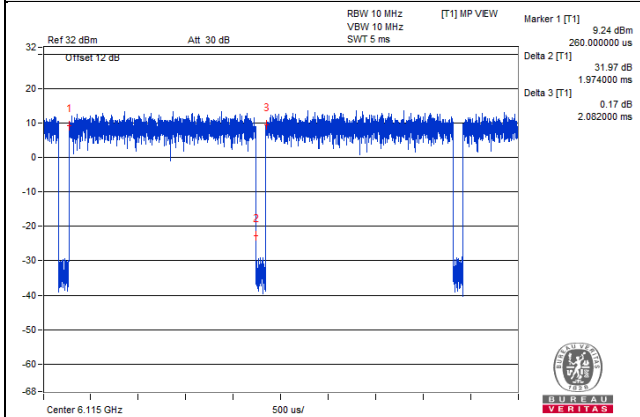
### 3.3 Duty Cycle of Test Signal

Duty cycle of test signal is < 98%, duty factor shall be considered.

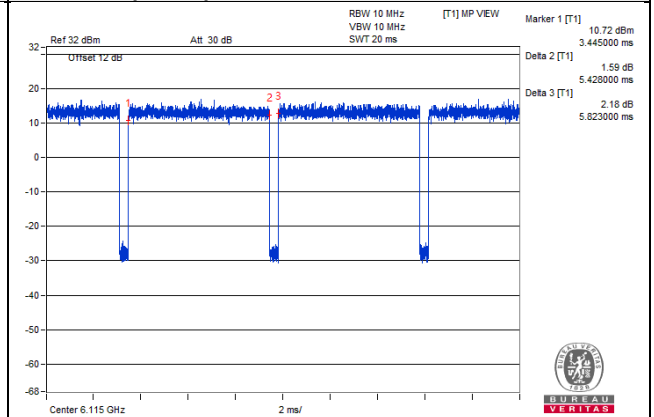
| Duty Cycle             |            |               |      |                  |
|------------------------|------------|---------------|------|------------------|
|                        | Tx on (ms) | Tx total (ms) | %    | Duty Factor (dB) |
| 802.11a_NSS1           | 1.974      | 2.082         | 94.8 | 0.23             |
| 802.11ax (HE20) _NSS1  | 5.428      | 5.823         | 93.2 | 0.31             |
| 802.11ax (HE40) _NSS1  | 5.42       | 5.808         | 93.3 | 0.30             |
| 802.11ax (HE80) _NSS1  | 5.44       | 5.9           | 92.2 | 0.35             |
| 802.11ax (HE160) _NSS1 | 5.438      | 5.873         | 92.6 | 0.33             |
| 802.11ax (HE20) _NSS4  | 5.434      | 5.803         | 93.6 | 0.29             |
| 802.11ax (HE40) _NSS4  | 5.434      | 5.897         | 92.1 | 0.36             |
| 802.11ax (HE80) _NSS4  | 5.434      | 5.88          | 92.4 | 0.34             |
| 802.11ax (HE160) _NSS4 | 5.434      | 5.874         | 92.5 | 0.34             |

### NSS1

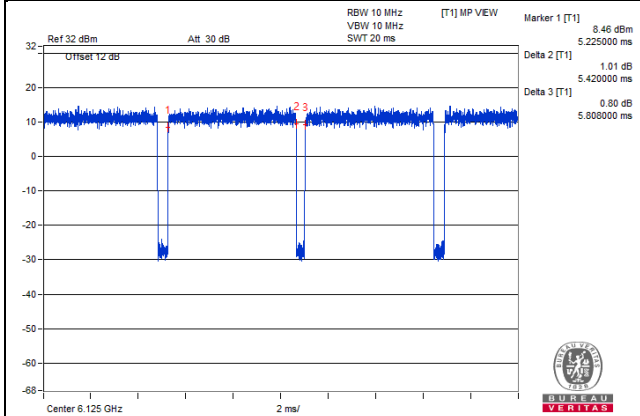
#### 802.11a



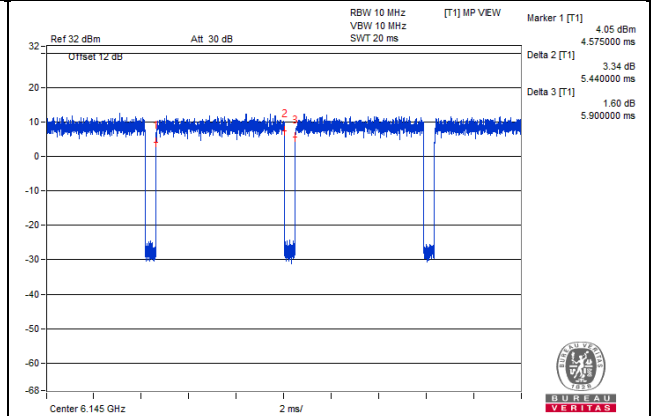
#### 802.11ax (HE20)



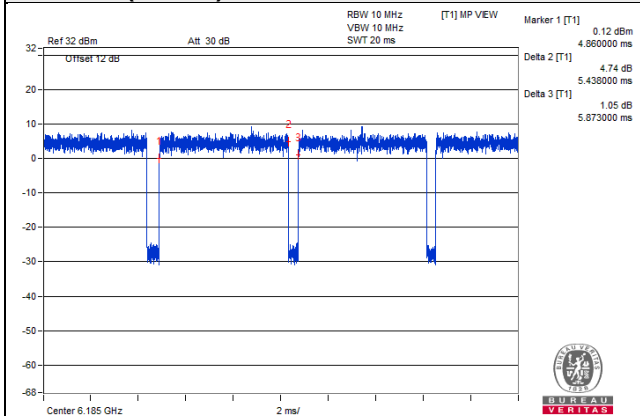
#### 802.11ax (HE40)



#### 802.11ax (HE80)

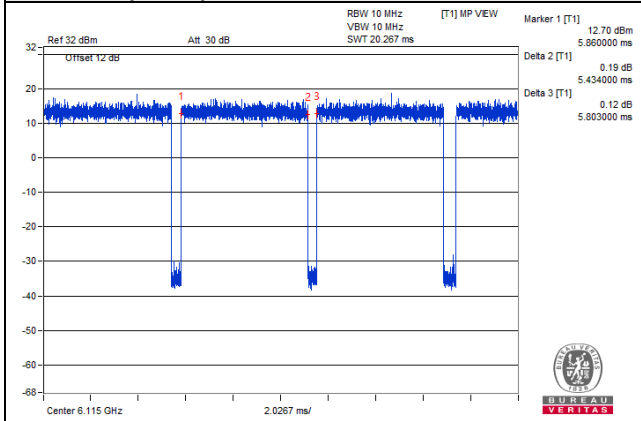


#### 802.11ax (HE160)

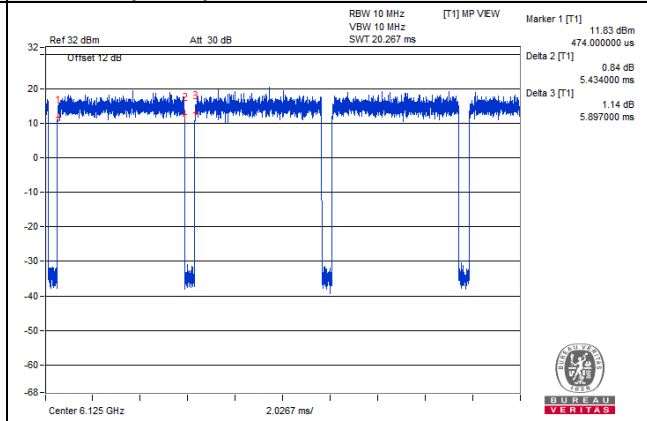


NSS4

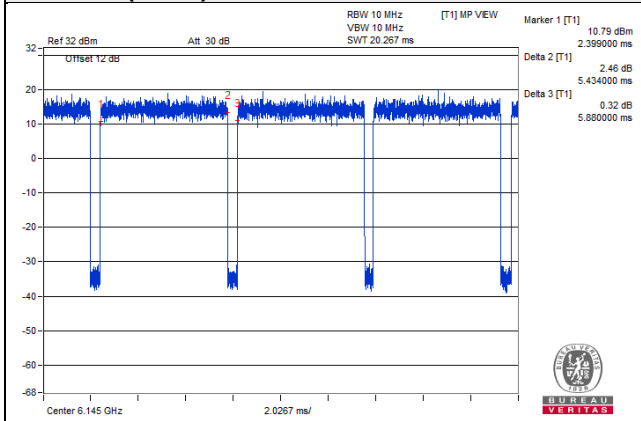
802.11ax (HE20)



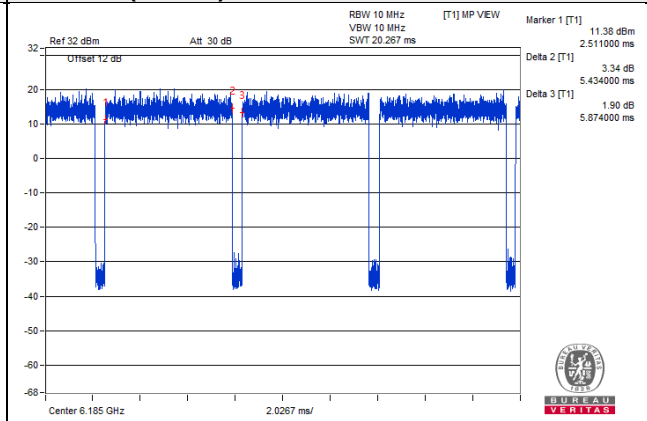
802.11ax (HE40)



802.11ax (HE80)



802.11ax (HE160)



### 3.4 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

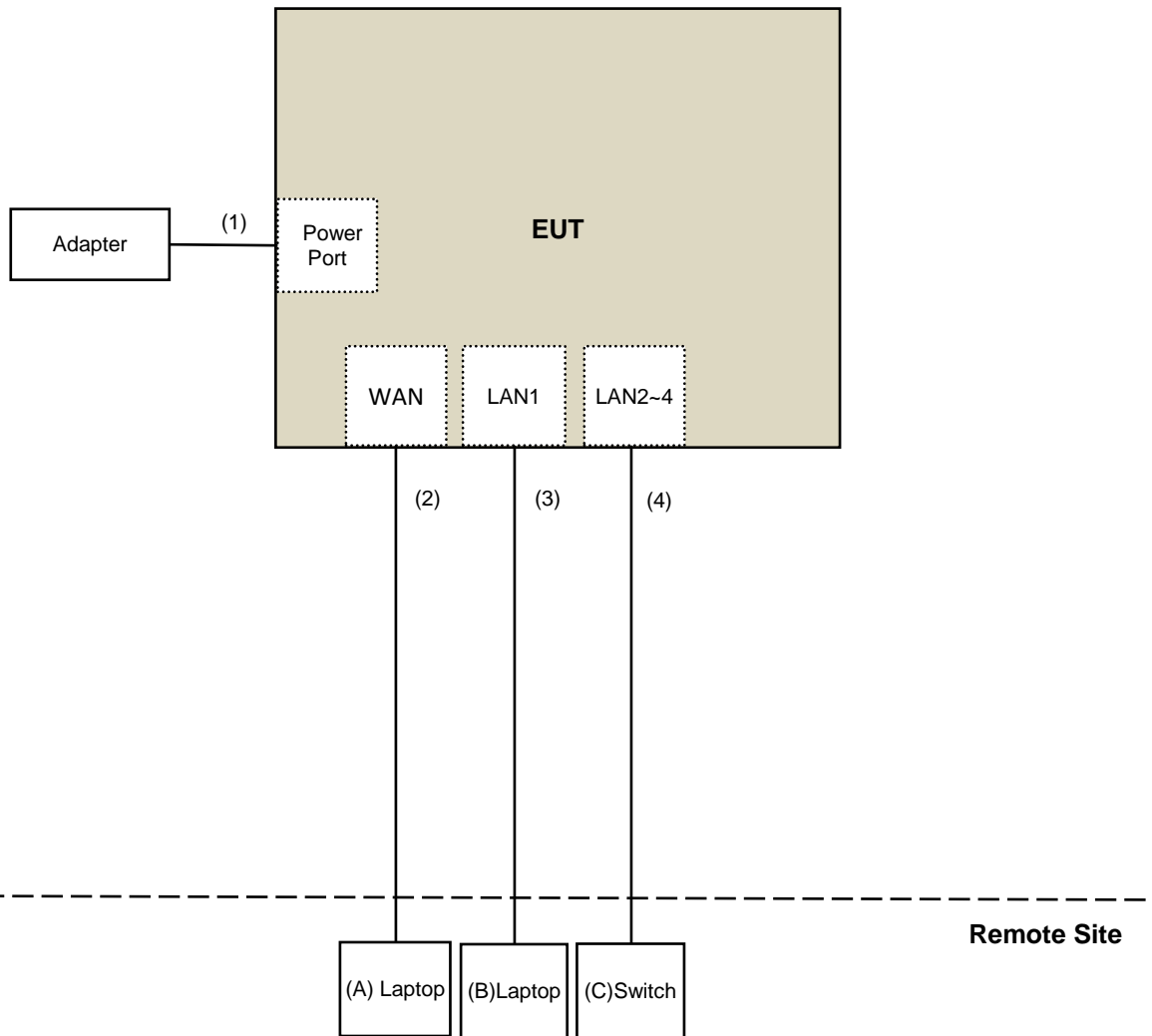
| ID | Product | Brand  | Model No.     | Serial No.    | FCC ID | Remarks         |
|----|---------|--------|---------------|---------------|--------|-----------------|
| A. | Laptop  | DELL   | Inspiron 7570 | DW3CSJ2       | NA     | Provided by Lab |
| B. | Laptop  | DELL   | E6420         | 482T3R1       | DoC    | Provided by Lab |
| C. | Switch  | D-Link | DGS-1005D     | DR8WC92000523 | NA     | Provided by Lab |

Note:

- All power cords of the above support units are non-shielded (1.8m).

| ID | Descriptions | Qty. | Length (m) | Shielding (Yes/No) | Cores (Qty.) | Remarks            |
|----|--------------|------|------------|--------------------|--------------|--------------------|
| 1. | DC Cable     | 1    | 1.8        | No                 | 0            | Supplied by client |
| 2. | RJ-45 Cable  | 1    | 10         | No                 | 0            | Provided by Lab    |
| 3. | RJ-45 Cable  | 1    | 10         | No                 | 0            | Provided by Lab    |
| 4. | RJ-45 Cable  | 3    | 10         | Yes                | 0            | Provided by Lab    |

### 3.4.1 Configuration of System under Test



### 3.5 General Description of Applied Standard

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards and references:

**Test Standard:**

**FCC Part 15, Subpart E (15.407)**

**ANSI C63.10-2013**

All test items have been performed and recorded as per the above standards.

**References Test Guidance:**

**KDB 987594 D02 EMC Measurement v01r01**

**KDB 789033 D02 General UNII Test Procedure New Rules v02r01**

**KDB 662911 D01 Multiple Transmitter Output v02r01**

All test items have been performed as a reference to the above KDB test guidance.

## 4 Test Types and Results

### 4.1 Radiated Emission and Bandedge Measurement

#### 4.1.1 Limits of Radiated Emission and Bandedge Measurement

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

| Frequencies (MHz) | Field Strength (microvolts/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                             |

**NOTE:**

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

Limits of unwanted emission out of the restricted bands

| Frequencies (MHz)     | EIRP Limit             | Equivalent Field Strength at 3m |
|-----------------------|------------------------|---------------------------------|
| 5925MHz > F > 7125MHz | Peak:-7 (dBm/MHz)      | 88.2(dBμV/m)                    |
|                       | Average: -27 (dBm/MHz) | 68.2(dBμV/m)                    |

**Note:**

The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3} \mu\text{V/m, where P is the eirp (Watts).}$$



## 4.1.2 Test Instruments

**For Radiated emission test:**

| DESCRIPTION & MANUFACTURER                          | MODEL NO.            | SERIAL NO.  | CALIBRATED DATE | CALIBRATED UNTIL |
|---|----------------------|-------------|-----------------|------------------|
| Test Receiver<br>Agilent                            | N9038A               | MY51210202  | Dec. 13, 2019   | Dec. 12, 2020    |
| Pre-Amplifier<br>EMCI                               | EMC001340            | 980142      | May 25, 2020    | May 24, 2021     |
| Loop Antenna<br>Electro-Metrics                     | EM-6879              | 264         | Feb. 18, 2020   | Feb. 17, 2021    |
| RF Cable  | 5D-FB                | LOOPCAB-001 | Jan. 08, 2020   | Jan. 07, 2021    |
| RF Cable  | 5D-FB                | LOOPCAB-002 | Jan. 08, 2020   | Jan. 07, 2021    |
| Pre-Amplifier<br>Mini-Circuits                      | ZFL-1000VH2B         | AMP-ZFL-05  | Apr. 28, 2020   | Apr. 27, 2021    |
| Trilog Broadband<br>Antenna<br>SCHWARZBECK          | VULB 9168            | 9168-406    | Nov. 06, 2020   | Nov. 05, 2021    |
| RF Cable  | 8D                   | 966-6-1     | Apr. 04, 2020   | Apr. 03, 2021    |
| RF Cable  | 8D                   | 966-4-2     | Mar. 18, 2020   | Mar. 17, 2021    |
| RF Cable  | 8D                   | 966-4-3     | Mar. 18, 2020   | Mar. 17, 2021    |
| Fixed attenuator<br>Mini-Circuits                   | UNAT-5+              | PAD-3m-4-01 | Sep. 24, 2020   | Sep. 23, 2021    |
| Horn_Antenna<br>SCHWARZBECK                         | BBHA 9120D           | 9120D-783   | Nov. 22, 2020   | Nov. 21, 2021    |
| Pre-Amplifier<br>EMCI                               | EMC 12630 SE         | 980638      | Apr. 08, 2020   | Apr. 07, 2021    |
| RF Cable  | EMC104-SM-SM-1200    | 160923      | Jan. 15, 2020   | Jan. 14, 2021    |
| RF Cable  | EMC104-SM-SM-2000    | 180502      | Apr. 29, 2020   | Apr. 28, 2021    |
| RF Cable  | EMC104-SM-SM-6000    | 180418      | Apr. 29, 2020   | Apr. 28, 2021    |
| Pre-Amplifier<br>EMCI                               | EMC184045SE          | 980387      | Jan. 15, 2020   | Jan. 14, 2021    |
| Horn_Antenna<br>SCHWARZBECK                         | BBHA 9170            | BBHA9170519 | Nov. 22, 2020   | Nov. 21, 2021    |
| RF Cable  | EMC102-KM-KM-1200    | 160924      | Jan. 15, 2020   | Jan. 14, 2021    |
| RF Cable  | EMC-KM-KM-4000       | 200214      | Mar. 11, 2020   | Mar. 10, 2021    |
| Software  | ADT_Radiated_V8.7.08 | NA          | NA              | NA               |
| Boresight Antenna Tower<br>& Turn Table<br>Max-Full | MF-7802BS            | MF780208530 | NA              | NA               |

**Note:**

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in 966 Chamber No. 4.
3. Tested Date: Nov. 24 to 26, 2020

**For Bandedge test:**

| DESCRIPTION & MANUFACTURER                          | MODEL NO.            | SERIAL NO.  | CALIBRATED DATE | CALIBRATED UNTIL |
|---|----------------------|-------------|-----------------|------------------|
| Test Receiver<br>Agilent                            | N9038A               | MY51210202  | Dec. 13, 2019   | Dec. 12, 2020    |
| Horn_Antenna<br>SCHWARZBECK                         | BBHA 9120D           | 9120D-783   | Nov. 24, 2019   | Nov. 23, 2020    |
| Pre-Amplifier<br>EMCI                               | EMC 12630 SE         | 980638      | Apr. 08, 2020   | Apr. 07, 2021    |
| RF Cable  | EMC104-SM-SM-1200    | 160923      | Jan. 15, 2020   | Jan. 14, 2021    |
| RF Cable  | EMC104-SM-SM-2000    | 180502      | Apr. 29, 2020   | Apr. 28, 2021    |
| RF Cable  | EMC104-SM-SM-6000    | 180418      | Apr. 29, 2020   | Apr. 28, 2021    |
| Pre-Amplifier<br>EMCI                               | EMC184045SE          | 980387      | Jan. 15, 2020   | Jan. 14, 2021    |
| Horn_Antenna<br>SCHWARZBECK                         | BBHA 9170            | BBHA9170519 | Nov. 24, 2019   | Nov. 23, 2020    |
| RF Cable  | EMC102-KM-KM-1200    | 160924      | Jan. 15, 2020   | Jan. 14, 2021    |
| RF Cable  | EMC-KM-KM-4000       | 200214      | Mar. 11, 2020   | Mar. 10, 2021    |
| Software  | ADT_Radiated_V8.7.08 | NA          | NA              | NA               |
| Boresight Antenna Tower<br>& Turn Table<br>Max-Full | MF-7802BS            | MF780208530 | NA              | NA               |

**Note:**

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in 966 Chamber No. 4.
3. Tested Date: Nov. 21, 2020

**For other test items:**

| DESCRIPTION & MANUFACTURER                 | MODEL NO.                     | SERIAL NO.    | CALIBRATED DATE | CALIBRATED UNTIL |
|--|-------------------------------|---------------|-----------------|------------------|
| Spectrum Analyzer R&S                      | FSV40                         | 100964        | May 29, 2020    | May 28, 2021     |
| Power meter Anritsu                        | ML2495A                       | 1529002       | July 22, 2020   | July 21, 2021    |
| Power sensor Anritsu                       | MA2411B                       | 1339443       | July 22, 2020   | July 21, 2021    |
| 10dB Attenuator Woken                      | MDCS18N-10                    | MDCS18N-10-01 | Apr. 13, 2021   | Apr. 12, 2022    |
| AC Power Source Extech Electronics         | 6905S                         | 1991551       | NA              | NA               |
| DC Power Supply Topward                    | 6603D                         | 795558        | NA              | NA               |
| Temperature & Humidity Chamber Giant Force | GTH-150-40-SP-AR              | MAA0812-008   | Jan. 14, 2021   | Jan. 13, 2022    |
| True RMS Clamp Meter FLUKE                 | 325                           | 31130711WS    | June 06, 2020   | June 05, 2021    |
| Software                                   | ADT_RF Test Software V6.6.5.4 | NA            | NA              | NA               |

- NOTE:**
1. The test was performed in Oven room 2.
  2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
  3. Tested Date: Apr. 01, 2021

#### 4.1.3 Test Procedure

##### **For Radiated emission below 30MHz**

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

##### **NOTE:**

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

##### **For Radiated emission above 30MHz**

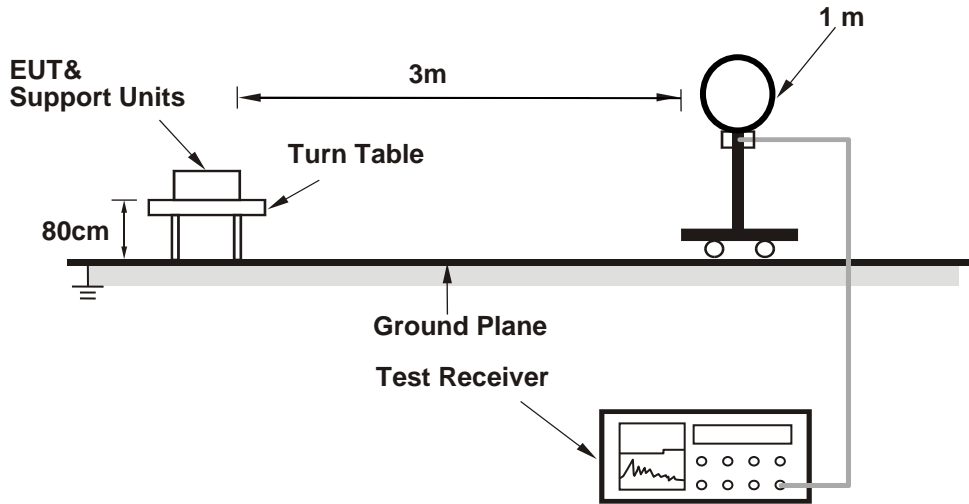
- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the RMS detector is unnecessary.

##### **Note:**

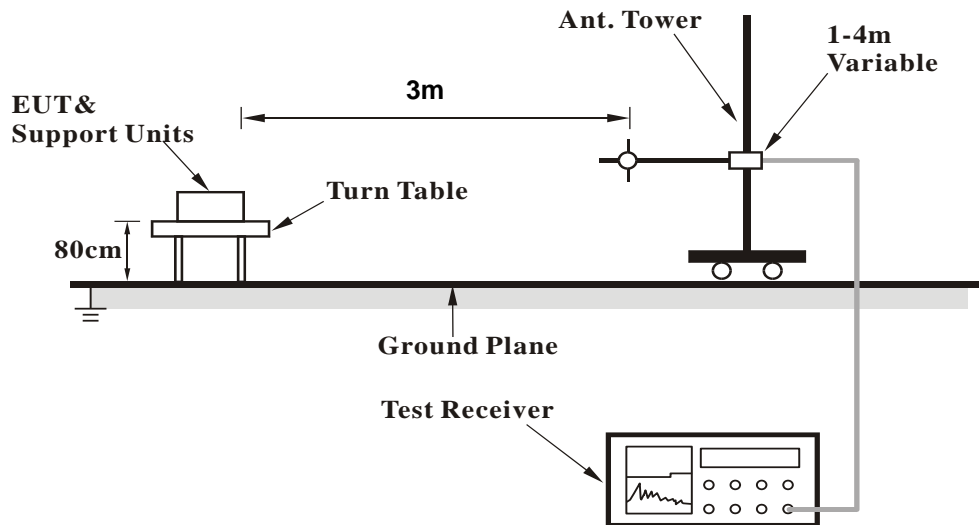
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The detection is peak and the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is  $\geq 1/T$  (Duty cycle < 98%) or 10Hz (Duty cycle  $\geq 98\%$ ) for Average measurement (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

#### 4.1.4 Test Setup

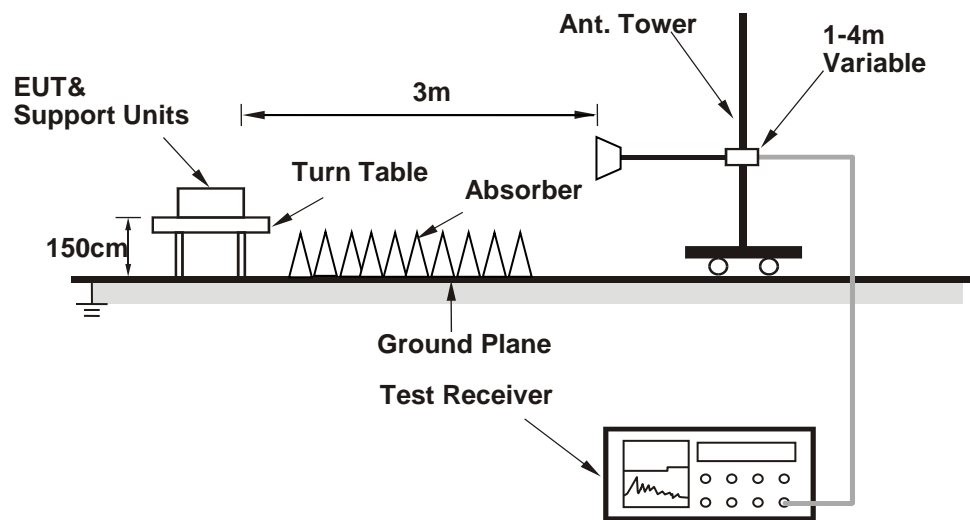
##### For Radiated emission below 30MHz



##### For Radiated emission 30MHz to 1GHz



### For Radiated emission above 1GHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

#### 4.1.5 EUT Operating Condition

- a. Connected the EUT with the Laptop which is placed on the testing table.
- b. Controlling software (30-YE085-700\_REVB\_PING6G) has been activated to set the EUT under transmission condition continuously.

## 4.1.6 Test Results (Mode 1)

## Above 1GHz Data:

|                        |               |                          |                           |
|------------------------|---------------|--------------------------|---------------------------|
| <b>RF Mode</b>         | TX 802.11a 6G | <b>Channel</b>           | CH 33 : 6115 MHz          |
| <b>Frequency Range</b> | 1GHz ~ 40GHz  | <b>Detector Function</b> | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|--|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | #5925.00        | 50.2 PK                 | 88.2           | -38.0       | 1.51 H             | 120                  | 46.5             | 3.7                      |
| 2  | #5925.00        | 39.7 AV                 | 68.2           | -28.5       | 1.51 H             | 120                  | 36.0             | 3.7                      |
| 3  | *6115.00        | 116.2 PK                |                |             | 1.51 H             | 120                  | 111.9            | 4.3                      |
| 4  | *6115.00        | 106.5 AV                |                |             | 1.51 H             | 120                  | 102.2            | 4.3                      |
| 5  | 12230.00        | 48.6 PK                 | 74.0           | -25.4       | 1.63 H             | 8                    | 35.5             | 13.1                     |
| 6  | 12230.00        | 43.5 AV                 | 54.0           | -10.5       | 1.63 H             | 8                    | 30.4             | 13.1                     |
| 7  | 18345.00        | 40.6 PK                 | 74.0           | -33.4       | 1.50 H             | 344                  | 47.8             | -7.2                     |
| 8  | 18345.00        | 29.3 AV                 | 54.0           | -24.7       | 1.50 H             | 344                  | 36.5             | -7.2                     |
| 9  | #24460.00       | 46.5 PK                 | 88.2           | -41.7       | 1.45 H             | 303                  | 48.6             | -2.1                     |
| 10   | #24460.00       | 44.7 AV                 | 68.2           | -23.5       | 1.45 H             | 303                  | 46.8             | -2.1                     |

| Antenna Polarity & Test Distance : Vertical at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|--|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | #5925.00        | 51.0 PK                 | 88.2           | -37.2       | 1.50 V             | 122                  | 47.3             | 3.7                      |
| 2  | #5925.00        | 39.9 AV                 | 68.2           | -28.3       | 1.50 V             | 122                  | 36.2             | 3.7                      |
| 3  | *6115.00        | 119.1 PK                |                |             | 1.50 V             | 122                  | 114.8            | 4.3                      |
| 4  | *6115.00        | 109.7 AV                |                |             | 1.50 V             | 122                  | 105.4            | 4.3                      |
| 5  | 12230.00        | 49.2 PK                 | 74.0           | -24.8       | 2.60 V             | 0                    | 36.1             | 13.1                     |
| 6  | 12230.00        | 43.6 AV                 | 54.0           | -10.4       | 2.60 V             | 0                    | 30.5             | 13.1                     |
| 7  | 18345.00        | 37.1 PK                 | 74.0           | -36.9       | 1.63 V             | 219                  | 44.3             | -7.2                     |
| 8  | 18345.00        | 26.9 AV                 | 54.0           | -27.1       | 1.63 V             | 219                  | 34.1             | -7.2                     |
| 9  | #24460.00       | 44.2 PK                 | 88.2           | -44.0       | 1.53 V             | 12                   | 46.3             | -2.1                     |
| 10   | #24460.00       | 38.7 AV                 | 68.2           | -29.5       | 1.53 V             | 12                   | 40.8             | -2.1                     |

## Remarks:

- Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
- Margin value = Emission Level – Limit value
- The other emission levels were very low against the limit.
- " \* ": Fundamental frequency.
- " # ": The radiated frequency is out of the restricted band.

|                        |               |                          |                           |
|------------------------|---------------|--------------------------|---------------------------|
| <b>RF Mode</b>         | TX 802.11a 6G | <b>Channel</b>           | CH 61 : 6255 MHz          |
| <b>Frequency Range</b> | 1GHz ~ 40GHz  | <b>Detector Function</b> | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|--|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | *6255.00        | 116.4 PK                |                |             | 1.50 H             | 105                  | 111.7            | 4.7                      |
| 2  | *6255.00        | 106.7 AV                |                |             | 1.50 H             | 105                  | 102.0            | 4.7                      |
| 3  | 12510.00        | 48.8 PK                 | 74.0           | -25.2       | 1.63 H             | 17                   | 36.4             | 12.4                     |
| 4  | 12510.00        | 43.8 AV                 | 54.0           | -10.2       | 1.63 H             | 17                   | 31.4             | 12.4                     |
| 5  | 18765.00        | 40.4 PK                 | 74.0           | -33.6       | 1.51 H             | 330                  | 47.2             | -6.8                     |
| 6  | 18765.00        | 29.0 AV                 | 54.0           | -25.0       | 1.51 H             | 330                  | 35.8             | -6.8                     |
| 7  | #25020.00       | 46.5 PK                 | 88.2           | -41.7       | 1.42 H             | 315                  | 48.3             | -1.8                     |
| 8  | #25020.00       | 44.9 AV                 | 68.2           | -23.3       | 1.42 H             | 315                  | 46.7             | -1.8                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | *6255.00        | 119.0 PK                |                |             | 1.49 V             | 120                  | 114.3            | 4.7                      |
| 2  | *6255.00        | 109.5 AV                |                |             | 1.49 V             | 120                  | 104.8            | 4.7                      |
| 3  | 12510.00        | 49.6 PK                 | 74.0           | -24.4       | 2.58 V             | 6                    | 37.2             | 12.4                     |
| 4  | 12510.00        | 43.9 AV                 | 54.0           | -10.1       | 2.58 V             | 6                    | 31.5             | 12.4                     |
| 5  | 18765.00        | 36.8 PK                 | 74.0           | -37.2       | 1.65 V             | 210                  | 43.6             | -6.8                     |
| 6  | 18765.00        | 26.9 AV                 | 54.0           | -27.1       | 1.65 V             | 210                  | 33.7             | -6.8                     |
| 7  | #25020.00       | 44.0 PK                 | 88.2           | -44.2       | 1.58 V             | 16                   | 45.8             | -1.8                     |
| 8  | #25020.00       | 38.3 AV                 | 68.2           | -29.9       | 1.58 V             | 16                   | 40.1             | -1.8                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



|                        |               |                          |                           |
|------------------------|---------------|--------------------------|---------------------------|
| <b>RF Mode</b>         | TX 802.11a 6G | <b>Channel</b>           | CH 93 : 6415 MHz          |
| <b>Frequency Range</b> | 1GHz ~ 40GHz  | <b>Detector Function</b> | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|--|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | *6415.00        | 116.3 PK                |                |             | 1.52 H             | 124                  | 111.0            | 5.3                      |
| 2  | *6415.00        | 106.3 AV                |                |             | 1.52 H             | 124                  | 101.0            | 5.3                      |
| 3  | #12830.00       | 49.2 PK                 | 88.2           | -39.0       | 1.65 H             | 18                   | 35.8             | 13.4                     |
| 4  | #12830.00       | 44.0 AV                 | 68.2           | -24.2       | 1.65 H             | 18                   | 30.6             | 13.4                     |
| 5  | 19245.00        | 41.0 PK                 | 74.0           | -33.0       | 1.47 H             | 331                  | 47.7             | -6.7                     |
| 6  | 19245.00        | 29.3 AV                 | 54.0           | -24.7       | 1.47 H             | 331                  | 36.0             | -6.7                     |
| 7  | #25660.00       | 47.0 PK                 | 88.2           | -41.2       | 1.41 H             | 327                  | 48.6             | -1.6                     |
| 8  | #25660.00       | 45.4 AV                 | 68.2           | -22.8       | 1.41 H             | 327                  | 47.0             | -1.6                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | *6415.00        | 118.7 PK                |                |             | 1.54 V             | 107                  | 113.4            | 5.3                      |
| 2  | *6415.00        | 109.6 AV                |                |             | 1.54 V             | 107                  | 104.3            | 5.3                      |
| 3  | #12830.00       | 49.5 PK                 | 88.2           | -38.7       | 2.63 V             | 13                   | 36.1             | 13.4                     |
| 4  | #12830.00       | 43.7 AV                 | 68.2           | -24.5       | 2.63 V             | 13                   | 30.3             | 13.4                     |
| 5  | 19245.00        | 37.1 PK                 | 74.0           | -36.9       | 1.69 V             | 228                  | 43.8             | -6.7                     |
| 6  | 19245.00        | 26.8 AV                 | 54.0           | -27.2       | 1.69 V             | 228                  | 33.5             | -6.7                     |
| 7  | #25660.00       | 43.9 PK                 | 88.2           | -44.3       | 1.53 V             | 25                   | 45.5             | -1.6                     |
| 8  | #25660.00       | 38.5 AV                 | 68.2           | -29.7       | 1.53 V             | 25                   | 40.1             | -1.6                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                        |               |                          |                           |
|------------------------|---------------|--------------------------|---------------------------|
| <b>RF Mode</b>         | TX 802.11a 6G | <b>Channel</b>           | CH 97 : 6435 MHz          |
| <b>Frequency Range</b> | 1GHz ~ 40GHz  | <b>Detector Function</b> | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|--|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | *6435.00        | 116.7 PK                |                |             | 1.47 H             | 106                  | 111.3            | 5.4                      |
| 2  | *6435.00        | 106.8 AV                |                |             | 1.47 H             | 106                  | 101.4            | 5.4                      |
| 3  | #12870.00       | 48.4 PK                 | 88.2           | -39.8       | 1.61 H             | 13                   | 35.0             | 13.4                     |
| 4  | #12870.00       | 43.4 AV                 | 68.2           | -24.8       | 1.61 H             | 13                   | 30.0             | 13.4                     |
| 5  | 19305.00        | 40.2 PK                 | 74.0           | -33.8       | 1.48 H             | 317                  | 46.9             | -6.7                     |
| 6  | 19305.00        | 28.7 AV                 | 54.0           | -25.3       | 1.48 H             | 317                  | 35.4             | -6.7                     |
| 7  | #25740.00       | 46.1 PK                 | 88.2           | -42.1       | 1.39 H             | 325                  | 47.5             | -1.4                     |
| 8  | #25740.00       | 44.6 AV                 | 68.2           | -23.6       | 1.39 H             | 325                  | 46.0             | -1.4                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | *6435.00        | 118.9 PK                |                |             | 1.48 V             | 113                  | 113.5            | 5.4                      |
| 2  | *6435.00        | 109.8 AV                |                |             | 1.48 V             | 113                  | 104.4            | 5.4                      |
| 3  | #12870.00       | 48.9 PK                 | 88.2           | -39.3       | 2.61 V             | 16                   | 35.5             | 13.4                     |
| 4  | #12870.00       | 43.4 AV                 | 68.2           | -24.8       | 2.61 V             | 16                   | 30.0             | 13.4                     |
| 5  | 19305.00        | 40.0 PK                 | 74.0           | -34.0       | 1.65 V             | 209                  | 46.7             | -6.7                     |
| 6  | 19305.00        | 29.9 AV                 | 54.0           | -24.1       | 1.65 V             | 209                  | 36.6             | -6.7                     |
| 7  | #25740.00       | 44.1 PK                 | 88.2           | -44.1       | 1.56 V             | 6                    | 45.5             | -1.4                     |
| 8  | #25740.00       | 38.8 AV                 | 68.2           | -29.4       | 1.56 V             | 6                    | 40.2             | -1.4                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                        |               |                          |                           |
|------------------------|---------------|--------------------------|---------------------------|
| <b>RF Mode</b>         | TX 802.11a 6G | <b>Channel</b>           | CH 105 : 6475 MHz         |
| <b>Frequency Range</b> | 1GHz ~ 40GHz  | <b>Detector Function</b> | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|--|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | *6475.00        | 116.1 PK                |                |             | 1.53 H             | 135                  | 110.4            | 5.7                      |
| 2  | *6475.00        | 106.4 AV                |                |             | 1.53 H             | 135                  | 100.7            | 5.7                      |
| 3  | #12950.00       | 48.2 PK                 | 88.2           | -40.0       | 1.63 H             | 2                    | 34.9             | 13.3                     |
| 4  | #12950.00       | 43.4 AV                 | 68.2           | -24.8       | 1.63 H             | 2                    | 30.1             | 13.3                     |
| 5  | 19425.00        | 40.6 PK                 | 74.0           | -33.4       | 1.51 H             | 315                  | 47.4             | -6.8                     |
| 6  | 19425.00        | 29.4 AV                 | 54.0           | -24.6       | 1.51 H             | 315                  | 36.2             | -6.8                     |
| 7  | #25900.00       | 46.8 PK                 | 88.2           | -41.4       | 1.46 H             | 311                  | 48.8             | -2.0                     |
| 8  | #25900.00       | 44.9 AV                 | 68.2           | -23.3       | 1.46 H             | 311                  | 46.9             | -2.0                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | *6475.00        | 119.2 PK                |                |             | 1.54 V             | 107                  | 113.5            | 5.7                      |
| 2  | *6475.00        | 110.0 AV                |                |             | 1.54 V             | 107                  | 104.3            | 5.7                      |
| 3  | #12950.00       | 49.6 PK                 | 88.2           | -38.6       | 2.57 V             | 8                    | 36.3             | 13.3                     |
| 4  | #12950.00       | 44.1 AV                 | 68.2           | -24.1       | 2.57 V             | 8                    | 30.8             | 13.3                     |
| 5  | 19425.00        | 39.8 PK                 | 74.0           | -34.2       | 1.65 V             | 220                  | 46.6             | -6.8                     |
| 6  | 19425.00        | 29.7 AV                 | 54.0           | -24.3       | 1.65 V             | 220                  | 36.5             | -6.8                     |
| 7  | #25900.00       | 44.2 PK                 | 88.2           | -44.0       | 1.55 V             | 12                   | 46.2             | -2.0                     |
| 8  | #25900.00       | 38.8 AV                 | 68.2           | -29.4       | 1.55 V             | 12                   | 40.8             | -2.0                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                        |               |                          |                           |
|------------------------|---------------|--------------------------|---------------------------|
| <b>RF Mode</b>         | TX 802.11a 6G | <b>Channel</b>           | CH 113 : 6515 MHz         |
| <b>Frequency Range</b> | 1GHz ~ 40GHz  | <b>Detector Function</b> | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|--|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | *6515.00        | 116.8 PK                |                |             | 1.50 H             | 121                  | 110.8            | 6.0                      |
| 2  | *6515.00        | 106.9 AV                |                |             | 1.50 H             | 121                  | 100.9            | 6.0                      |
| 3  | #13030.00       | 48.3 PK                 | 88.2           | -39.9       | 1.67 H             | 9                    | 35.0             | 13.3                     |
| 4  | #13030.00       | 43.6 AV                 | 68.2           | -24.6       | 1.67 H             | 9                    | 30.3             | 13.3                     |
| 5  | 19545.00        | 40.9 PK                 | 74.0           | -33.1       | 1.51 H             | 333                  | 47.1             | -6.2                     |
| 6  | 19545.00        | 29.4 AV                 | 54.0           | -24.6       | 1.51 H             | 333                  | 35.6             | -6.2                     |
| 7  | #26060.00       | 46.0 PK                 | 88.2           | -42.2       | 1.41 H             | 322                  | 47.4             | -1.4                     |
| 8  | #26060.00       | 44.7 AV                 | 68.2           | -23.5       | 1.41 H             | 322                  | 46.1             | -1.4                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | *6515.00        | 118.9 PK                |                |             | 1.47 V             | 125                  | 112.9            | 6.0                      |
| 2  | *6515.00        | 109.4 AV                |                |             | 1.47 V             | 125                  | 103.4            | 6.0                      |
| 3  | #13030.00       | 49.4 PK                 | 88.2           | -38.8       | 2.62 V             | 4                    | 36.1             | 13.3                     |
| 4  | #13030.00       | 43.9 AV                 | 68.2           | -24.3       | 2.62 V             | 4                    | 30.6             | 13.3                     |
| 5  | 19545.00        | 40.7 PK                 | 74.0           | -33.3       | 1.67 V             | 231                  | 46.9             | -6.2                     |
| 6  | 19545.00        | 30.4 AV                 | 54.0           | -23.6       | 1.67 V             | 231                  | 36.6             | -6.2                     |
| 7  | #26060.00       | 44.3 PK                 | 88.2           | -43.9       | 1.58 V             | 23                   | 45.7             | -1.4                     |
| 8  | #26060.00       | 39.0 AV                 | 68.2           | -29.2       | 1.58 V             | 23                   | 40.4             | -1.4                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                        |               |                          |                           |
|------------------------|---------------|--------------------------|---------------------------|
| <b>RF Mode</b>         | TX 802.11a 6G | <b>Channel</b>           | CH 117 : 6535 MHz         |
| <b>Frequency Range</b> | 1GHz ~ 40GHz  | <b>Detector Function</b> | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|--|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | *6535.00        | 116.8 PK                |                |             | 1.46 H             | 135                  | 110.8            | 6.0                      |
| 2  | *6535.00        | 106.9 AV                |                |             | 1.46 H             | 135                  | 100.9            | 6.0                      |
| 3  | #13070.00       | 48.7 PK                 | 88.2           | -39.5       | 1.61 H             | 12                   | 35.3             | 13.4                     |
| 4  | #13070.00       | 43.9 AV                 | 68.2           | -24.3       | 1.61 H             | 12                   | 30.5             | 13.4                     |
| 5  | 19605.00        | 40.5 PK                 | 74.0           | -33.5       | 1.46 H             | 343                  | 46.6             | -6.1                     |
| 6  | 19605.00        | 29.1 AV                 | 54.0           | -24.9       | 1.46 H             | 343                  | 35.2             | -6.1                     |
| 7  | #26140.00       | 46.2 PK                 | 88.2           | -42.0       | 1.47 H             | 312                  | 47.5             | -1.3                     |
| 8  | #26140.00       | 44.7 AV                 | 68.2           | -23.5       | 1.47 H             | 312                  | 46.0             | -1.3                     |

| Antenna Polarity & Test Distance : Vertical at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|--|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | *6535.00        | 119.5 PK                |                |             | 1.47 V             | 125                  | 113.5            | 6.0                      |
| 2  | *6535.00        | 109.9 AV                |                |             | 1.47 V             | 125                  | 103.9            | 6.0                      |
| 3  | #13070.00       | 49.3 PK                 | 88.2           | -38.9       | 2.61 V             | 14                   | 35.9             | 13.4                     |
| 4  | #13070.00       | 43.8 AV                 | 68.2           | -24.4       | 2.61 V             | 14                   | 30.4             | 13.4                     |
| 5  | 19605.00        | 40.0 PK                 | 74.0           | -34.0       | 1.60 V             | 216                  | 46.1             | -6.1                     |
| 6  | 19605.00        | 29.6 AV                 | 54.0           | -24.4       | 1.60 V             | 216                  | 35.7             | -6.1                     |
| 7  | #26140.00       | 44.9 PK                 | 88.2           | -43.3       | 1.58 V             | 16                   | 46.2             | -1.3                     |
| 8  | #26140.00       | 39.2 AV                 | 68.2           | -29.0       | 1.58 V             | 16                   | 40.5             | -1.3                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                        |               |                          |                           |
|------------------------|---------------|--------------------------|---------------------------|
| <b>RF Mode</b>         | TX 802.11a 6G | <b>Channel</b>           | CH 153 : 6715 MHz         |
| <b>Frequency Range</b> | 1GHz ~ 40GHz  | <b>Detector Function</b> | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|--|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | *6715.00        | 115.9 PK                |                |             | 1.54 H             | 124                  | 109.8            | 6.1                      |
| 2  | *6715.00        | 106.2 AV                |                |             | 1.54 H             | 124                  | 100.1            | 6.1                      |
| 3  | #13430.00       | 48.9 PK                 | 88.2           | -39.3       | 1.62 H             | 20                   | 34.0             | 14.9                     |
| 4  | #13430.00       | 43.7 AV                 | 68.2           | -24.5       | 1.62 H             | 20                   | 28.8             | 14.9                     |
| 5  | 20145.00        | 40.4 PK                 | 74.0           | -33.6       | 1.53 H             | 332                  | 45.8             | -5.4                     |
| 6  | 20145.00        | 29.0 AV                 | 54.0           | -25.0       | 1.53 H             | 332                  | 34.4             | -5.4                     |
| 7  | #26860.00       | 46.5 PK                 | 88.2           | -41.7       | 1.45 H             | 315                  | 47.6             | -1.1                     |
| 8  | #26860.00       | 45.1 AV                 | 68.2           | -23.1       | 1.45 H             | 315                  | 46.2             | -1.1                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | *6715.00        | 119.5 PK                |                |             | 1.53 V             | 107                  | 113.4            | 6.1                      |
| 2  | *6715.00        | 110.1 AV                |                |             | 1.53 V             | 107                  | 104.0            | 6.1                      |
| 3  | #13430.00       | 49.4 PK                 | 88.2           | -38.8       | 2.59 V             | 7                    | 34.5             | 14.9                     |
| 4  | #13430.00       | 43.7 AV                 | 68.2           | -24.5       | 2.59 V             | 7                    | 28.8             | 14.9                     |
| 5  | 20145.00        | 44.4 PK                 | 74.0           | -29.6       | 1.59 V             | 210                  | 49.8             | -5.4                     |
| 6  | 20145.00        | 34.3 AV                 | 54.0           | -19.7       | 1.59 V             | 210                  | 39.7             | -5.4                     |
| 7  | #26860.00       | 43.5 PK                 | 88.2           | -44.7       | 1.57 V             | 7                    | 44.6             | -1.1                     |
| 8  | #26860.00       | 38.2 AV                 | 68.2           | -30.0       | 1.57 V             | 7                    | 39.3             | -1.1                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                        |               |                          |                           |
|------------------------|---------------|--------------------------|---------------------------|
| <b>RF Mode</b>         | TX 802.11a 6G | <b>Channel</b>           | CH 181 : 6855 MHz         |
| <b>Frequency Range</b> | 1GHz ~ 40GHz  | <b>Detector Function</b> | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|--|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | *6855.00        | 116.1 PK                |                |             | 1.57 H             | 125                  | 109.3            | 6.8                      |
| 2  | *6855.00        | 106.5 AV                |                |             | 1.57 H             | 125                  | 99.7             | 6.8                      |
| 3  | #13710.00       | 48.7 PK                 | 88.2           | -39.5       | 1.61 H             | 6                    | 33.0             | 15.7                     |
| 4  | #13710.00       | 43.4 AV                 | 68.2           | -24.8       | 1.61 H             | 6                    | 27.7             | 15.7                     |
| 5  | 20565.00        | 40.6 PK                 | 74.0           | -33.4       | 1.53 H             | 331                  | 45.5             | -4.9                     |
| 6  | 20565.00        | 29.2 AV                 | 54.0           | -24.8       | 1.53 H             | 331                  | 34.1             | -4.9                     |
| 7  | #27420.00       | 46.5 PK                 | 88.2           | -41.7       | 1.45 H             | 323                  | 48.1             | -1.6                     |
| 8  | #27420.00       | 44.9 AV                 | 68.2           | -23.3       | 1.45 H             | 323                  | 46.5             | -1.6                     |

| Antenna Polarity & Test Distance : Vertical at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|--|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | *6855.00        | 118.6 PK                |                |             | 1.53 V             | 132                  | 111.8            | 6.8                      |
| 2  | *6855.00        | 109.3 AV                |                |             | 1.53 V             | 132                  | 102.5            | 6.8                      |
| 3  | #13710.00       | 49.5 PK                 | 88.2           | -38.7       | 2.61 V             | 16                   | 33.8             | 15.7                     |
| 4  | #13710.00       | 43.9 AV                 | 68.2           | -24.3       | 2.61 V             | 16                   | 28.2             | 15.7                     |
| 5  | 20565.00        | 44.4 PK                 | 74.0           | -29.6       | 1.58 V             | 224                  | 49.3             | -4.9                     |
| 6  | 20565.00        | 34.2 AV                 | 54.0           | -19.8       | 1.58 V             | 224                  | 39.1             | -4.9                     |
| 7  | #27420.00       | 44.8 PK                 | 88.2           | -43.4       | 1.55 V             | 0                    | 46.4             | -1.6                     |
| 8  | #27420.00       | 39.2 AV                 | 68.2           | -29.0       | 1.55 V             | 0                    | 40.8             | -1.6                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                        |               |                          |                           |
|------------------------|---------------|--------------------------|---------------------------|
| <b>RF Mode</b>         | TX 802.11a 6G | <b>Channel</b>           | CH 185 : 6875 MHz         |
| <b>Frequency Range</b> | 1GHz ~ 40GHz  | <b>Detector Function</b> | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|--|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | *6875.00        | 116.2 PK                |                |             | 1.51 H             | 114                  | 109.2            | 7.0                      |
| 2  | *6875.00        | 106.5 AV                |                |             | 1.51 H             | 114                  | 99.5             | 7.0                      |
| 3  | #13750.00       | 48.9 PK                 | 88.2           | -39.3       | 1.56 H             | 22                   | 33.1             | 15.8                     |
| 4  | #13750.00       | 44.0 AV                 | 68.2           | -24.2       | 1.56 H             | 22                   | 28.2             | 15.8                     |
| 5  | 20625.00        | 40.6 PK                 | 74.0           | -33.4       | 1.55 H             | 342                  | 45.4             | -4.8                     |
| 6  | 20625.00        | 29.1 AV                 | 54.0           | -24.9       | 1.55 H             | 342                  | 33.9             | -4.8                     |
| 7  | #27500.00       | 47.2 PK                 | 88.2           | -41.0       | 1.45 H             | 330                  | 48.4             | -1.2                     |
| 8  | #27500.00       | 45.6 AV                 | 68.2           | -22.6       | 1.45 H             | 330                  | 46.8             | -1.2                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | *6875.00        | 119.2 PK                |                |             | 1.45 V             | 132                  | 112.2            | 7.0                      |
| 2  | *6875.00        | 110.0 AV                |                |             | 1.45 V             | 132                  | 103.0            | 7.0                      |
| 3  | #13750.00       | 49.0 PK                 | 88.2           | -39.2       | 2.56 V             | 12                   | 33.2             | 15.8                     |
| 4  | #13750.00       | 43.7 AV                 | 68.2           | -24.5       | 2.56 V             | 12                   | 27.9             | 15.8                     |
| 5  | 20625.00        | 44.5 PK                 | 74.0           | -29.5       | 1.58 V             | 215                  | 49.3             | -4.8                     |
| 6  | 20625.00        | 34.1 AV                 | 54.0           | -19.9       | 1.58 V             | 215                  | 38.9             | -4.8                     |
| 7  | #27500.00       | 44.5 PK                 | 88.2           | -43.7       | 1.53 V             | 3                    | 45.7             | -1.2                     |
| 8  | #27500.00       | 39.1 AV                 | 68.2           | -29.1       | 1.53 V             | 3                    | 40.3             | -1.2                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



|                        |               |                          |                           |
|------------------------|---------------|--------------------------|---------------------------|
| <b>RF Mode</b>         | TX 802.11a 6G | <b>Channel</b>           | CH 213 : 7015 MHz         |
| <b>Frequency Range</b> | 1GHz ~ 40GHz  | <b>Detector Function</b> | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|--|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | *7015.00        | 116.4 PK                |                |             | 1.56 H             | 136                  | 108.5            | 7.9                      |
| 2  | *7015.00        | 106.7 AV                |                |             | 1.56 H             | 136                  | 98.8             | 7.9                      |
| 3  | #14030.00       | 49.6 PK                 | 88.2           | -38.6       | 1.65 H             | 29                   | 33.7             | 15.9                     |
| 4  | #14030.00       | 44.1 AV                 | 68.2           | -24.1       | 1.65 H             | 29                   | 28.2             | 15.9                     |
| 5  | 21045.00        | 40.3 PK                 | 74.0           | -33.7       | 1.56 H             | 327                  | 44.7             | -4.4                     |
| 6  | 21045.00        | 28.7 AV                 | 54.0           | -25.3       | 1.56 H             | 327                  | 33.1             | -4.4                     |
| 7  | #28060.00       | 46.3 PK                 | 88.2           | -41.9       | 1.48 H             | 323                  | 47.7             | -1.4                     |
| 8  | #28060.00       | 45.1 AV                 | 68.2           | -23.1       | 1.48 H             | 323                  | 46.5             | -1.4                     |

| Antenna Polarity & Test Distance : Vertical at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|--|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | *7015.00        | 118.7 PK                |                |             | 1.44 V             | 118                  | 110.8            | 7.9                      |
| 2  | *7015.00        | 109.4 AV                |                |             | 1.44 V             | 118                  | 101.5            | 7.9                      |
| 3  | #14030.00       | 49.6 PK                 | 88.2           | -38.6       | 2.66 V             | 12                   | 33.7             | 15.9                     |
| 4  | #14030.00       | 44.0 AV                 | 68.2           | -24.2       | 2.66 V             | 12                   | 28.1             | 15.9                     |
| 5  | 21045.00        | 44.7 PK                 | 74.0           | -29.3       | 1.63 V             | 209                  | 49.1             | -4.4                     |
| 6  | 21045.00        | 34.5 AV                 | 54.0           | -19.5       | 1.63 V             | 209                  | 38.9             | -4.4                     |
| 7  | #28060.00       | 45.2 PK                 | 88.2           | -43.0       | 1.58 V             | 0                    | 46.6             | -1.4                     |
| 8  | #28060.00       | 39.5 AV                 | 68.2           | -28.7       | 1.58 V             | 0                    | 40.9             | -1.4                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                        |               |                          |                           |
|------------------------|---------------|--------------------------|---------------------------|
| <b>RF Mode</b>         | TX 802.11a 6G | <b>Channel</b>           | CH 233 : 7115 MHz         |
| <b>Frequency Range</b> | 1GHz ~ 40GHz  | <b>Detector Function</b> | Peak (PK)<br>Average (AV) |

**Antenna Polarity & Test Distance : Horizontal at 3 m**

| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1  | *7115.00        | 104.3 PK                |                |             | 1.50 H             | 82                   | 96.2             | 8.1                      |
| 2  | *7115.00        | 95.1 AV                 |                |             | 1.50 H             | 82                   | 87.0             | 8.1                      |
| 3  | #7125.00        | 74.2 PK                 | 88.2           | -14.0       | 1.50 H             | 82                   | 66.0             | 8.2                      |
| 4  | #7125.00        | 57.6 AV                 | 68.2           | -10.6       | 1.50 H             | 82                   | 49.4             | 8.2                      |
| 5  | #14230.00       | 45.5 PK                 | 88.2           | -42.7       | 1.57 H             | 21                   | 28.4             | 17.1                     |
| 6  | #14230.00       | 40.1 AV                 | 68.2           | -28.1       | 1.57 H             | 21                   | 23.0             | 17.1                     |
| 7  | 21345.00        | 40.2 PK                 | 74.0           | -33.8       | 1.50 H             | 345                  | 44.4             | -4.2                     |
| 8  | 21345.00        | 28.9 AV                 | 54.0           | -25.1       | 1.50 H             | 345                  | 33.1             | -4.2                     |
| 9  | #28460.00       | 41.8 PK                 | 88.2           | -46.4       | 1.41 H             | 330                  | 43.2             | -1.4                     |
| 10 | #28460.00       | 40.2 AV                 | 68.2           | -28.0       | 1.41 H             | 330                  | 41.6             | -1.4                     |

**Antenna Polarity & Test Distance : Vertical at 3 m**

| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1  | *7115.00        | 109.1 PK                |                |             | 2.06 V             | 212                  | 101.0            | 8.1                      |
| 2  | *7115.00        | 100.3 AV                |                |             | 2.06 V             | 212                  | 92.2             | 8.1                      |
| 3  | #7125.00        | 83.1 PK                 | 88.2           | -5.1        | 2.06 V             | 212                  | 74.9             | 8.2                      |
| 4  | #7125.00        | 68.0 AV                 | 68.2           | -0.2        | 2.06 V             | 212                  | 59.8             | 8.2                      |
| 5  | #14230.00       | 46.0 PK                 | 88.2           | -42.2       | 2.57 V             | 3                    | 28.9             | 17.1                     |
| 6  | #14230.00       | 40.1 AV                 | 68.2           | -28.1       | 2.57 V             | 3                    | 23.0             | 17.1                     |
| 7  | 21345.00        | 37.2 PK                 | 74.0           | -36.8       | 1.74 V             | 231                  | 41.4             | -4.2                     |
| 8  | 21345.00        | 26.8 AV                 | 54.0           | -27.2       | 1.74 V             | 231                  | 31.0             | -4.2                     |
| 9  | #28460.00       | 40.4 PK                 | 88.2           | -47.8       | 1.56 V             | 22                   | 41.8             | -1.4                     |
| 10 | #28460.00       | 34.8 AV                 | 68.2           | -33.4       | 1.56 V             | 22                   | 36.2             | -1.4                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                    |                          |                           |
|------------------------|--------------------|--------------------------|---------------------------|
| <b>RF Mode</b>         | TX 802.11ax (HE20) | <b>Channel</b>           | CH 33 : 6115 MHz          |
| <b>Frequency Range</b> | 1GHz ~ 40GHz       | <b>Detector Function</b> | Peak (PK)<br>Average (AV) |

**Antenna Polarity & Test Distance : Horizontal at 3 m**

| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1  | #5925.00        | 49.7 PK                 | 88.2           | -38.5       | 1.44 H             | 123                  | 46.0             | 3.7                      |
| 2  | #5925.00        | 39.1 AV                 | 68.2           | -29.1       | 1.44 H             | 123                  | 35.4             | 3.7                      |
| 3  | *6115.00        | 115.9 PK                |                |             | 1.44 H             | 123                  | 111.6            | 4.3                      |
| 4  | *6115.00        | 105.6 AV                |                |             | 1.44 H             | 123                  | 101.3            | 4.3                      |
| 5  | 12230.00        | 42.8 PK                 | 74.0           | -31.2       | 1.58 H             | 7                    | 29.7             | 13.1                     |
| 6  | 12230.00        | 37.9 AV                 | 54.0           | -16.1       | 1.58 H             | 7                    | 24.8             | 13.1                     |
| 7  | 18345.00        | 41.2 PK                 | 74.0           | -32.8       | 1.45 H             | 328                  | 48.4             | -7.2                     |
| 8  | 18345.00        | 29.7 AV                 | 54.0           | -24.3       | 1.45 H             | 328                  | 36.9             | -7.2                     |
| 9  | #24460.00       | 40.2 PK                 | 88.2           | -48.0       | 1.48 H             | 315                  | 42.3             | -2.1                     |
| 10 | #24460.00       | 38.6 AV                 | 68.2           | -29.6       | 1.48 H             | 315                  | 40.7             | -2.1                     |

**Antenna Polarity & Test Distance : Vertical at 3 m**

| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1  | #5925.00        | 50.4 PK                 | 88.2           | -37.8       | 1.51 V             | 123                  | 46.7             | 3.7                      |
| 2  | #5925.00        | 39.7 AV                 | 68.2           | -28.5       | 1.51 V             | 123                  | 36.0             | 3.7                      |
| 3  | *6115.00        | 120.6 PK                |                |             | 1.51 V             | 123                  | 116.3            | 4.3                      |
| 4  | *6115.00        | 109.5 AV                |                |             | 1.51 V             | 123                  | 105.2            | 4.3                      |
| 5  | 12230.00        | 40.6 PK                 | 74.0           | -33.4       | 2.54 V             | 18                   | 27.5             | 13.1                     |
| 6  | 12230.00        | 35.2 AV                 | 54.0           | -18.8       | 2.54 V             | 18                   | 22.1             | 13.1                     |
| 7  | 18345.00        | 37.7 PK                 | 74.0           | -36.3       | 1.68 V             | 228                  | 44.9             | -7.2                     |
| 8  | 18345.00        | 27.1 AV                 | 54.0           | -26.9       | 1.68 V             | 228                  | 34.3             | -7.2                     |
| 9  | #24460.00       | 40.7 PK                 | 88.2           | -47.5       | 1.51 V             | 15                   | 42.8             | -2.1                     |
| 10 | #24460.00       | 35.1 AV                 | 68.2           | -33.1       | 1.51 V             | 15                   | 37.2             | -2.1                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                    |                          |                           |
|------------------------|--------------------|--------------------------|---------------------------|
| <b>RF Mode</b>         | TX 802.11ax (HE20) | <b>Channel</b>           | CH 61 : 6255 MHz          |
| <b>Frequency Range</b> | 1GHz ~ 40GHz       | <b>Detector Function</b> | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|--|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | *6255.00        | 116.2 PK                |                |             | 1.46 H             | 124                  | 111.5            | 4.7                      |
| 2  | *6255.00        | 105.7 AV                |                |             | 1.46 H             | 124                  | 101.0            | 4.7                      |
| 3  | 12510.00        | 42.6 PK                 | 74.0           | -31.4       | 1.52 H             | 7                    | 30.2             | 12.4                     |
| 4  | 12510.00        | 37.7 AV                 | 54.0           | -16.3       | 1.52 H             | 7                    | 25.3             | 12.4                     |
| 5  | 18765.00        | 41.1 PK                 | 74.0           | -32.9       | 1.44 H             | 322                  | 47.9             | -6.8                     |
| 6  | 18765.00        | 29.6 AV                 | 54.0           | -24.4       | 1.44 H             | 322                  | 36.4             | -6.8                     |
| 7  | #25020.00       | 40.0 PK                 | 88.2           | -48.2       | 1.43 H             | 317                  | 41.8             | -1.8                     |
| 8  | #25020.00       | 38.4 AV                 | 68.2           | -29.8       | 1.43 H             | 317                  | 40.2             | -1.8                     |

| Antenna Polarity & Test Distance : Vertical at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|--|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | *6255.00        | 120.3 PK                |                |             | 1.53 V             | 115                  | 115.6            | 4.7                      |
| 2  | *6255.00        | 109.4 AV                |                |             | 1.53 V             | 115                  | 104.7            | 4.7                      |
| 3  | 12510.00        | 40.6 PK                 | 74.0           | -33.4       | 2.60 V             | 33                   | 28.2             | 12.4                     |
| 4  | 12510.00        | 35.0 AV                 | 54.0           | -19.0       | 2.60 V             | 33                   | 22.6             | 12.4                     |
| 5  | 18765.00        | 37.1 PK                 | 74.0           | -36.9       | 1.69 V             | 232                  | 43.9             | -6.8                     |
| 6  | 18765.00        | 26.8 AV                 | 54.0           | -27.2       | 1.69 V             | 232                  | 33.6             | -6.8                     |
| 7  | #25020.00       | 40.7 PK                 | 88.2           | -47.5       | 1.53 V             | 19                   | 42.5             | -1.8                     |
| 8  | #25020.00       | 35.0 AV                 | 68.2           | -33.2       | 1.53 V             | 19                   | 36.8             | -1.8                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                    |                          |                           |
|------------------------|--------------------|--------------------------|---------------------------|
| <b>RF Mode</b>         | TX 802.11ax (HE20) | <b>Channel</b>           | CH 93 : 6415 MHz          |
| <b>Frequency Range</b> | 1GHz ~ 40GHz       | <b>Detector Function</b> | Peak (PK)<br>Average (AV) |

**Antenna Polarity & Test Distance : Horizontal at 3 m**

| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1  | *6415.00        | 116.2 PK                |                |             | 1.39 H             | 110                  | 110.9            | 5.3                      |
| 2  | *6415.00        | 106.0 AV                |                |             | 1.39 H             | 110                  | 100.7            | 5.3                      |
| 3  | #12830.00       | 43.1 PK                 | 88.2           | -45.1       | 1.59 H             | 12                   | 29.7             | 13.4                     |
| 4  | #12830.00       | 38.1 AV                 | 68.2           | -30.1       | 1.59 H             | 12                   | 24.7             | 13.4                     |
| 5  | 19245.00        | 41.6 PK                 | 74.0           | -32.4       | 1.48 H             | 323                  | 48.3             | -6.7                     |
| 6  | 19245.00        | 29.9 AV                 | 54.0           | -24.1       | 1.48 H             | 323                  | 36.6             | -6.7                     |
| 7  | #25660.00       | 40.9 PK                 | 88.2           | -47.3       | 1.50 H             | 328                  | 42.5             | -1.6                     |
| 8  | #25660.00       | 39.1 AV                 | 68.2           | -29.1       | 1.50 H             | 328                  | 40.7             | -1.6                     |

**Antenna Polarity & Test Distance : Vertical at 3 m**

| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1  | *6415.00        | 120.4 PK                |                |             | 1.54 V             | 130                  | 115.1            | 5.3                      |
| 2  | *6415.00        | 109.4 AV                |                |             | 1.54 V             | 130                  | 104.1            | 5.3                      |
| 3  | #12830.00       | 40.8 PK                 | 88.2           | -47.4       | 2.57 V             | 25                   | 27.4             | 13.4                     |
| 4  | #12830.00       | 35.7 AV                 | 68.2           | -32.5       | 2.57 V             | 25                   | 22.3             | 13.4                     |
| 5  | 19245.00        | 37.2 PK                 | 74.0           | -36.8       | 1.70 V             | 226                  | 43.9             | -6.7                     |
| 6  | 19245.00        | 26.8 AV                 | 54.0           | -27.2       | 1.70 V             | 226                  | 33.5             | -6.7                     |
| 7  | #25660.00       | 40.8 PK                 | 88.2           | -47.4       | 1.54 V             | 7                    | 42.4             | -1.6                     |
| 8  | #25660.00       | 35.5 AV                 | 68.2           | -32.7       | 1.54 V             | 7                    | 37.1             | -1.6                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                    |                          |                           |
|------------------------|--------------------|--------------------------|---------------------------|
| <b>RF Mode</b>         | TX 802.11ax (HE20) | <b>Channel</b>           | CH 97 : 6435 MHz          |
| <b>Frequency Range</b> | 1GHz ~ 40GHz       | <b>Detector Function</b> | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|--|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | *6435.00        | 115.6 PK                |                |             | 1.40 H             | 117                  | 110.2            | 5.4                      |
| 2  | *6435.00        | 105.5 AV                |                |             | 1.40 H             | 117                  | 100.1            | 5.4                      |
| 3  | #12870.00       | 43.1 PK                 | 88.2           | -45.1       | 1.56 H             | 4                    | 29.7             | 13.4                     |
| 4  | #12870.00       | 38.0 AV                 | 68.2           | -30.2       | 1.56 H             | 4                    | 24.6             | 13.4                     |
| 5  | 19305.00        | 41.5 PK                 | 74.0           | -32.5       | 1.50 H             | 343                  | 48.2             | -6.7                     |
| 6  | 19305.00        | 29.9 AV                 | 54.0           | -24.1       | 1.50 H             | 343                  | 36.6             | -6.7                     |
| 7  | #25740.00       | 40.0 PK                 | 88.2           | -48.2       | 1.42 H             | 327                  | 41.4             | -1.4                     |
| 8  | #25740.00       | 38.6 AV                 | 68.2           | -29.6       | 1.42 H             | 327                  | 40.0             | -1.4                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | *6435.00        | 120.0 PK                |                |             | 1.47 V             | 110                  | 114.6            | 5.4                      |
| 2  | *6435.00        | 109.2 AV                |                |             | 1.47 V             | 110                  | 103.8            | 5.4                      |
| 3  | #12870.00       | 40.2 PK                 | 88.2           | -48.0       | 2.52 V             | 24                   | 26.8             | 13.4                     |
| 4  | #12870.00       | 34.9 AV                 | 68.2           | -33.3       | 2.52 V             | 24                   | 21.5             | 13.4                     |
| 5  | 19305.00        | 37.5 PK                 | 74.0           | -36.5       | 1.70 V             | 217                  | 44.2             | -6.7                     |
| 6  | 19305.00        | 26.9 AV                 | 54.0           | -27.1       | 1.70 V             | 217                  | 33.6             | -6.7                     |
| 7  | #25740.00       | 40.8 PK                 | 88.2           | -47.4       | 1.47 V             | 16                   | 42.2             | -1.4                     |
| 8  | #25740.00       | 35.1 AV                 | 68.2           | -33.1       | 1.47 V             | 16                   | 36.5             | -1.4                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                    |                          |                           |
|------------------------|--------------------|--------------------------|---------------------------|
| <b>RF Mode</b>         | TX 802.11ax (HE20) | <b>Channel</b>           | CH 105 : 6475 MHz         |
| <b>Frequency Range</b> | 1GHz ~ 40GHz       | <b>Detector Function</b> | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|--|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | *6475.00        | 115.9 PK                |                |             | 1.41 H             | 127                  | 110.2            | 5.7                      |
| 2  | *6475.00        | 105.9 AV                |                |             | 1.41 H             | 127                  | 100.2            | 5.7                      |
| 3  | #12950.00       | 42.8 PK                 | 88.2           | -45.4       | 1.53 H             | 14                   | 29.5             | 13.3                     |
| 4  | #12950.00       | 38.1 AV                 | 68.2           | -30.1       | 1.53 H             | 14                   | 24.8             | 13.3                     |
| 5  | 19425.00        | 41.2 PK                 | 74.0           | -32.8       | 1.49 H             | 335                  | 48.0             | -6.8                     |
| 6  | 19425.00        | 29.7 AV                 | 54.0           | -24.3       | 1.49 H             | 335                  | 36.5             | -6.8                     |
| 7  | #25900.00       | 40.5 PK                 | 88.2           | -47.7       | 1.53 H             | 327                  | 42.5             | -2.0                     |
| 8  | #25900.00       | 38.8 AV                 | 68.2           | -29.4       | 1.53 H             | 327                  | 40.8             | -2.0                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | *6475.00        | 121.4 PK                |                |             | 1.57 V             | 111                  | 115.7            | 5.7                      |
| 2  | *6475.00        | 110.0 AV                |                |             | 1.57 V             | 111                  | 104.3            | 5.7                      |
| 3  | #12950.00       | 40.7 PK                 | 88.2           | -47.5       | 2.51 V             | 10                   | 27.4             | 13.3                     |
| 4  | #12950.00       | 35.3 AV                 | 68.2           | -32.9       | 2.51 V             | 10                   | 22.0             | 13.3                     |
| 5  | 19425.00        | 37.4 PK                 | 74.0           | -36.6       | 1.73 V             | 221                  | 44.2             | -6.8                     |
| 6  | 19425.00        | 26.6 AV                 | 54.0           | -27.4       | 1.73 V             | 221                  | 33.4             | -6.8                     |
| 7  | #25900.00       | 40.9 PK                 | 88.2           | -47.3       | 1.56 V             | 18                   | 42.9             | -2.0                     |
| 8  | #25900.00       | 35.2 AV                 | 68.2           | -33.0       | 1.56 V             | 18                   | 37.2             | -2.0                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                    |                          |                           |
|------------------------|--------------------|--------------------------|---------------------------|
| <b>RF Mode</b>         | TX 802.11ax (HE20) | <b>Channel</b>           | CH 113 : 6515 MHz         |
| <b>Frequency Range</b> | 1GHz ~ 40GHz       | <b>Detector Function</b> | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|--|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | *6515.00        | 116.0 PK                |                |             | 1.40 H             | 132                  | 110.0            | 6.0                      |
| 2  | *6515.00        | 105.7 AV                |                |             | 1.40 H             | 132                  | 99.7             | 6.0                      |
| 3  | #13030.00       | 42.8 PK                 | 88.2           | -45.4       | 1.59 H             | 5                    | 29.5             | 13.3                     |
| 4  | #13030.00       | 37.7 AV                 | 68.2           | -30.5       | 1.59 H             | 5                    | 24.4             | 13.3                     |
| 5  | 19545.00        | 40.8 PK                 | 74.0           | -33.2       | 1.46 H             | 330                  | 47.0             | -6.2                     |
| 6  | 19545.00        | 29.5 AV                 | 54.0           | -24.5       | 1.46 H             | 330                  | 35.7             | -6.2                     |
| 7  | #26060.00       | 40.7 PK                 | 88.2           | -47.5       | 1.43 H             | 314                  | 42.1             | -1.4                     |
| 8  | #26060.00       | 39.0 AV                 | 68.2           | -29.2       | 1.43 H             | 314                  | 40.4             | -1.4                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | *6515.00        | 120.6 PK                |                |             | 1.56 V             | 114                  | 114.6            | 6.0                      |
| 2  | *6515.00        | 109.6 AV                |                |             | 1.56 V             | 114                  | 103.6            | 6.0                      |
| 3  | #13030.00       | 40.7 PK                 | 88.2           | -47.5       | 2.52 V             | 5                    | 27.4             | 13.3                     |
| 4  | #13030.00       | 35.4 AV                 | 68.2           | -32.8       | 2.52 V             | 5                    | 22.1             | 13.3                     |
| 5  | 19545.00        | 38.2 PK                 | 74.0           | -35.8       | 1.70 V             | 229                  | 44.4             | -6.2                     |
| 6  | 19545.00        | 27.4 AV                 | 54.0           | -26.6       | 1.70 V             | 229                  | 33.6             | -6.2                     |
| 7  | #26060.00       | 41.0 PK                 | 88.2           | -47.2       | 1.52 V             | 14                   | 42.4             | -1.4                     |
| 8  | #26060.00       | 35.5 AV                 | 68.2           | -32.7       | 1.52 V             | 14                   | 36.9             | -1.4                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



|                        |                    |                          |                           |
|------------------------|--------------------|--------------------------|---------------------------|
| <b>RF Mode</b>         | TX 802.11ax (HE20) | <b>Channel</b>           | CH 117 : 6535 MHz         |
| <b>Frequency Range</b> | 1GHz ~ 40GHz       | <b>Detector Function</b> | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|--|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | *6535.00        | 115.3 PK                |                |             | 1.43 H             | 107                  | 109.3            | 6.0                      |
| 2  | *6535.00        | 105.2 AV                |                |             | 1.43 H             | 107                  | 99.2             | 6.0                      |
| 3  | #13070.00       | 42.8 PK                 | 88.2           | -45.4       | 1.57 H             | 13                   | 29.4             | 13.4                     |
| 4  | #13070.00       | 37.8 AV                 | 68.2           | -30.4       | 1.57 H             | 13                   | 24.4             | 13.4                     |
| 5  | 19605.00        | 40.8 PK                 | 74.0           | -33.2       | 1.42 H             | 315                  | 46.9             | -6.1                     |
| 6  | 19605.00        | 29.4 AV                 | 54.0           | -24.6       | 1.42 H             | 315                  | 35.5             | -6.1                     |
| 7  | #26140.00       | 40.5 PK                 | 88.2           | -47.7       | 1.54 H             | 325                  | 41.8             | -1.3                     |
| 8  | #26140.00       | 39.0 AV                 | 68.2           | -29.2       | 1.54 H             | 325                  | 40.3             | -1.3                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | *6535.00        | 121.0 PK                |                |             | 1.52 V             | 122                  | 115.0            | 6.0                      |
| 2  | *6535.00        | 109.9 AV                |                |             | 1.52 V             | 122                  | 103.9            | 6.0                      |
| 3  | #13070.00       | 40.6 PK                 | 88.2           | -47.6       | 2.54 V             | 33                   | 27.2             | 13.4                     |
| 4  | #13070.00       | 34.9 AV                 | 68.2           | -33.3       | 2.54 V             | 33                   | 21.5             | 13.4                     |
| 5  | 19605.00        | 38.2 PK                 | 74.0           | -35.8       | 1.63 V             | 231                  | 44.3             | -6.1                     |
| 6  | 19605.00        | 27.6 AV                 | 54.0           | -26.4       | 1.63 V             | 231                  | 33.7             | -6.1                     |
| 7  | #26140.00       | 40.9 PK                 | 88.2           | -47.3       | 1.53 V             | 26                   | 42.2             | -1.3                     |
| 8  | #26140.00       | 35.5 AV                 | 68.2           | -32.7       | 1.53 V             | 26                   | 36.8             | -1.3                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                    |                          |                           |
|------------------------|--------------------|--------------------------|---------------------------|
| <b>RF Mode</b>         | TX 802.11ax (HE20) | <b>Channel</b>           | CH 153 : 6715 MHz         |
| <b>Frequency Range</b> | 1GHz ~ 40GHz       | <b>Detector Function</b> | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|--|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | *6715.00        | 115.9 PK                |                |             | 1.42 H             | 113                  | 109.8            | 6.1                      |
| 2  | *6715.00        | 105.7 AV                |                |             | 1.42 H             | 113                  | 99.6             | 6.1                      |
| 3  | #13430.00       | 42.9 PK                 | 88.2           | -45.3       | 1.52 H             | 2                    | 28.0             | 14.9                     |
| 4  | #13430.00       | 37.8 AV                 | 68.2           | -30.4       | 1.52 H             | 2                    | 22.9             | 14.9                     |
| 5  | 20145.00        | 41.6 PK                 | 74.0           | -32.4       | 1.45 H             | 332                  | 47.0             | -5.4                     |
| 6  | 20145.00        | 30.2 AV                 | 54.0           | -23.8       | 1.45 H             | 332                  | 35.6             | -5.4                     |
| 7  | #26860.00       | 40.2 PK                 | 88.2           | -48.0       | 1.50 H             | 313                  | 41.3             | -1.1                     |
| 8  | #26860.00       | 38.8 AV                 | 68.2           | -29.4       | 1.50 H             | 313                  | 39.9             | -1.1                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | *6715.00        | 120.4 PK                |                |             | 1.50 V             | 126                  | 114.3            | 6.1                      |
| 2  | *6715.00        | 109.1 AV                |                |             | 1.50 V             | 126                  | 103.0            | 6.1                      |
| 3  | #13430.00       | 40.7 PK                 | 88.2           | -47.5       | 2.53 V             | 26                   | 25.8             | 14.9                     |
| 4  | #13430.00       | 35.4 AV                 | 68.2           | -32.8       | 2.53 V             | 26                   | 20.5             | 14.9                     |
| 5  | 20145.00        | 37.8 PK                 | 74.0           | -36.2       | 1.73 V             | 224                  | 43.2             | -5.4                     |
| 6  | 20145.00        | 27.4 AV                 | 54.0           | -26.6       | 1.73 V             | 224                  | 32.8             | -5.4                     |
| 7  | #26860.00       | 41.0 PK                 | 88.2           | -47.2       | 1.53 V             | 0                    | 42.1             | -1.1                     |
| 8  | #26860.00       | 35.2 AV                 | 68.2           | -33.0       | 1.53 V             | 0                    | 36.3             | -1.1                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                    |                          |                           |
|------------------------|--------------------|--------------------------|---------------------------|
| <b>RF Mode</b>         | TX 802.11ax (HE20) | <b>Channel</b>           | CH 181 : 6855 MHz         |
| <b>Frequency Range</b> | 1GHz ~ 40GHz       | <b>Detector Function</b> | Peak (PK)<br>Average (AV) |

**Antenna Polarity & Test Distance : Horizontal at 3 m**

| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1  | *6855.00        | 116.0 PK                |                |             | 1.49 H             | 134                  | 109.2            | 6.8                      |
| 2  | *6855.00        | 106.0 AV                |                |             | 1.49 H             | 134                  | 99.2             | 6.8                      |
| 3  | #13710.00       | 42.3 PK                 | 88.2           | -45.9       | 1.54 H             | 12                   | 26.6             | 15.7                     |
| 4  | #13710.00       | 37.6 AV                 | 68.2           | -30.6       | 1.54 H             | 12                   | 21.9             | 15.7                     |
| 5  | 20565.00        | 41.0 PK                 | 74.0           | -33.0       | 1.51 H             | 337                  | 45.9             | -4.9                     |
| 6  | 20565.00        | 29.3 AV                 | 54.0           | -24.7       | 1.51 H             | 337                  | 34.2             | -4.9                     |
| 7  | #27420.00       | 39.7 PK                 | 88.2           | -48.5       | 1.48 H             | 311                  | 41.3             | -1.6                     |
| 8  | #27420.00       | 38.3 AV                 | 68.2           | -29.9       | 1.48 H             | 311                  | 39.9             | -1.6                     |

**Antenna Polarity & Test Distance : Vertical at 3 m**

| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1  | *6855.00        | 120.5 PK                |                |             | 1.49 V             | 128                  | 113.7            | 6.8                      |
| 2  | *6855.00        | 109.2 AV                |                |             | 1.49 V             | 128                  | 102.4            | 6.8                      |
| 3  | #13710.00       | 40.9 PK                 | 88.2           | -47.3       | 2.53 V             | 24                   | 25.2             | 15.7                     |
| 4  | #13710.00       | 35.6 AV                 | 68.2           | -32.6       | 2.53 V             | 24                   | 19.9             | 15.7                     |
| 5  | 20565.00        | 37.2 PK                 | 74.0           | -36.8       | 1.66 V             | 239                  | 42.1             | -4.9                     |
| 6  | 20565.00        | 26.9 AV                 | 54.0           | -27.1       | 1.66 V             | 239                  | 31.8             | -4.9                     |
| 7  | #27420.00       | 40.4 PK                 | 88.2           | -47.8       | 1.54 V             | 14                   | 42.0             | -1.6                     |
| 8  | #27420.00       | 34.6 AV                 | 68.2           | -33.6       | 1.54 V             | 14                   | 36.2             | -1.6                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.