

## FCC Test Report

**Report No.:** RF171006C01A-2

**FCC ID:** CFS8DLRCHS5200W

**Test Model:** RCHS5200W

**Received Date:** Oct. 06, 2017

**Test Date:** Nov. 02, 2017 ~ Jan. 10, 2018

**Issued Date:** Jan. 17, 2018

**Applicant:** Honeywell International Inc.

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**Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

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**Test Location:** No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, TAIWAN (R.O.C.)

**FCC Registration:** 788550

**Designation Number:** TW0003



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### Release Control Record

| Issue No.      | Description       | Date Issued   |
|----------------|-------------------|---------------|
| RF171006C01A-2 | Original release. | Jan. 17, 2018 |

## 1 Certificate of Conformity

**Product:** Smart Home Security Base Station

**Brand:** Honeywell

**Test Model:** RCHS5200W

**Sample Status:** Engineering sample

**Applicant:** Honeywell International Inc.

**Test Date:** Nov. 02, 2017 ~ Jan. 10, 2018

**Standards:** 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 RF characteristics under the conditions specified in this report.

**Prepared by :**  , **Date:** Jan. 17, 2018  
Pettie Chen / Senior Specialist

**Approved by :**  , **Date:** Jan. 17, 2018  
Bruce Chen / Project Engineer

## 2 Summary of Test Results

| 47 CFR FCC Part 15, Subpart E (Section 15.407) |                                            |        |                                                                                  |
|------------------------------------------------|--------------------------------------------|--------|----------------------------------------------------------------------------------|
| FCC Clause                                     | Test Item                                  | Result | Remarks                                                                          |
| 15.407(b)(6)                                   | AC Power Conducted Emissions               | Pass   | Meet the requirement of limit. Minimum passing margin is -10.23dB at 0.34159MHz. |
| 15.407(b) (1/2/3/4(i/ii)/6)                    | Radiated Emissions & Band Edge Measurement | Pass   | Meet the requirement of limit. Minimum passing margin is -0.6dB at 5725.00MHz.   |
| 15.407(a)(1/2/3)                               | Max Average Transmit Power                 | Pass   | Meet the requirement of limit.                                                   |
| ---                                            | Occupied Bandwidth Measurement             | Pass   | Meet the requirement of limit.                                                   |
| 15.407(a)(1/2/3)                               | Peak Power Spectral Density                | Pass   | Meet the requirement of limit. (U-NII-3 Band only)                               |
| 15.407(e)                                      | 6dB bandwidth                              | Pass   | Meet the requirement of limit.                                                   |
| 15.407(g)                                      | Frequency Stability                        | Pass   | Meet the requirement of limit.                                                   |
| 15.203                                         | Antenna Requirement                        | Pass   | No antenna connector is used.                                                    |

### 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   | 2.94 dB                              |
| Radiated Emissions up to 1 GHz     | 30MHz ~ 200MHz   | 3.59 dB                              |
|                                    | 200MHz ~ 1000MHz | 3.60 dB                              |
| Radiated Emissions above 1 GHz     | 1GHz ~ 18GHz     | 2.29 dB                              |
|                                    | 18GHz ~ 40GHz    | 2.29 dB                              |

### 2.2 Modification Record

There were no modifications required for compliance.

### 3 General Information

#### 3.1 General Description of EUT

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product               | Smart Home Security Base Station                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Brand                 | Honeywell                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Test Model            | RCHS5200W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Sample Status         | Engineering sample                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Power Supply Rating   | 12Vdc (adapter)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Modulation Type       | 256QAM, 64QAM, 16QAM, QPSK, BPSK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Modulation Technology | OFDM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Transfer Rate         | 802.11a: 54/48/36/24/18/12/9/6Mbps<br>802.11n: up to 150Mbps<br>802.11ac: up to 433.3Mbps                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Operating Frequency   | 5180~5240MHz, 5260~5320MHz, 5500~5700MHz, 5745~5825MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Number of Channel     | 5180~5240MHz:<br>802.11a, 802.11n (HT20), 802.11ac (VHT20): 4<br>802.11n (HT40), 802.11ac (VHT40): 2<br>802.11ac (VHT80): 1<br>5260~5320MHz:<br>802.11a, 802.11n (HT20), 802.11ac (VHT20): 4<br>802.11n (HT40), 802.11ac (VHT40): 2<br>802.11ac (VHT80): 1<br>5500~5700MHz:<br>802.11a, 802.11n (HT20), 802.11ac (VHT20): 11<br>802.11n (HT40), 802.11ac (VHT40): 5<br>802.11ac (VHT80): 2<br>5745~5825MHz:<br>802.11a, 802.11n (HT20), 802.11ac (VHT20): 5<br>802.11n (HT40), 802.11ac (VHT40): 2<br>802.11ac (VHT80): 1 |
| Output Power          | 5180~5240MHz: 101.859mW<br>5260~5320MHz: 108.143mW<br>5500~5700MHz: 117.761mW<br>5745~5825MHz: 111.173mW                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Antenna Type          | Ant. 0: PIFA antenna with 2.2dBi gain<br>Ant. 1: Loop antenna with 2.4dBi gain                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Antenna Connector     | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Accessory Device      | Adapter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Cable Supplied        | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

**Note:**

1. This report is prepared for FCC class II permissive change. The differences compared with the original report (BV CPS report no.: RF171006C01-2) are Layout & software change (Listed as below) and updating KDB version to the latest version. Therefore, test items for conducted emission and radiated emission test for all modes and Antenna Port Conducted Measurement for 802.11n (HT40) had been re-tested in this report.

**DAS MB Schematic Design Change List - DVT1 to PVT**

| No. | Catalog     | Function                | Change Description                                                                            |
|-----|-------------|-------------------------|-----------------------------------------------------------------------------------------------|
| 1   | BB          | Reset                   | ■ Change the reset control from MOSFET to a diode, and the pull up source change to VPH_PWR.  |
| 2   | BB          | Audio Power Path        | ■ Add R2514 & C2513 to well control the Q2503 turn off when the AC adaptor remove.            |
| 3   | MB          | HW ID                   | Mount R1022, R1026, R1027<br>Non-mount R1023, R1024, R1025                                    |
| 4   | MB          | RS Test                 | Change R2914 from 22K to 10K.                                                                 |
| 5   | Touch Board | Camera Desense issue    | Change TP_RST_N_C signal D231 from ESD diode to 33pF                                          |
| 6   | Touch Board | Mute Key Power on issue | Change TP_R233 from 1K to 10K to ensure the voltage of PM8953_RESIN pin is higher than 1.12V. |
| 7   | Halo LED    | LED power               | Add a load switch on the LED board. The power off current can reduce from 5mA to 0.5mA.       |

**DAS MB Layout Design Change List - DVT1 to PVT**

| No. | Catalog     | Function             | Change Description                                                                                                                                                                   |
|-----|-------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | BB          | DDR                  | ■ Reduce the DDR trace length to meet Qualcomm new layout guide from 20mm to 13.2mm.                                                                                                 |
| 2   | BB          | Reset                | ■ Change the reset control from MOSFET to a diode, and the pull up source change to VPH_PWR.<br>■ Add R1622 & R1623 at the up of bottom layer.<br>■ Add D1601 next to Q1602.         |
| 3   | BB          | Audio Power Path     | ■ Add R2514 & C2513 to well control the Q2503 turn off when the AC adaptor remove.                                                                                                   |
| 4   | BB          | DDR                  | Reduce trace length of EBI0_CA6 ~ EBI0_CA9                                                                                                                                           |
| 5   | BB          | DDR                  | Add trace length of EBI0_DQ17, EBI0_DQ21, EBI0_DQ29                                                                                                                                  |
| 6   | BB          | DDR                  | Modify some DQ trace length to target Qualcomm request                                                                                                                               |
| 7   | BB          | Audio codec          | Modify some trace routing and trace width of WCD9326                                                                                                                                 |
| 8   | BB          | PMIC Xtal            | 1. Delete GND under Xtal in layer2<br>2. Move layer2 trace to layer3                                                                                                                 |
| 9   | BB          | Audio AMP            | Modify some trace routing and trace width of WSA8815                                                                                                                                 |
| 10  | BB          | Camera               | Follow new request of Camera MIPI match to modify some trace length                                                                                                                  |
| 11  | RF          | WIFI                 | Follow new request of WLAN_BB_I/Q match to modify some trace length, the change of the control signals circuit between CPU and WiFi chip does not have an impact on the RF function. |
| 12  | RFI         | Desense              | Add 2 beads on the LED control signals to prevent LTE B12 desense issue.                                                                                                             |
| 13  | MB          | USB OTG              | Remove MB U2903.                                                                                                                                                                     |
| 14  | IO board    | USB                  | Remove IO board CN104                                                                                                                                                                |
| 15  | MB          | Debug Conn           | Remove MB CN2101                                                                                                                                                                     |
| 16  | Touch Board | Camera Desense issue | Add extra 33pF capacitor in parallel with the D231 on the Touch board.                                                                                                               |

2. The EUT provides 1 completed transmitter and 1 receiver.

| Modulation Mode  | TX Function     |
|------------------|-----------------|
| 802.11a          | 1TX (Diversity) |
| 802.11n (HT20)   | 1TX (Diversity) |
| 802.11n (HT40)   | 1TX (Diversity) |
| 802.11ac (VHT20) | 1TX (Diversity) |
| 802.11ac (VHT40) | 1TX (Diversity) |
| 802.11ac (VHT80) | 1TX (Diversity) |

\* The modulation and bandwidth are similar for 802.11n mode for HT20/HT40 and 802.11ac mode for VHT20/VHT40. After pre-testing, 802.11ac (VHT20/VHT40) power is lower than 802.11n (HT20/HT40), therefore 802.11n (HT20/HT40) is the worst case to representative mode in test report. (Final test mode refer section 3.2.1)

\* For Antenna Port Conducted Measurement, Ant. 1 with maximum gain was chosen for the final test.

3. The EUT consumes power from the following adapter.

| Adapter      |                                       |
|--------------|---------------------------------------|
| Brand        | Asian Power Devices Inc.              |
| Model        | WA-30J12FU                            |
| Input Power  | 100-240Vac~50-60Hz, 0.9A Max          |
| Output Power | 12Vdc/ 2.5A                           |
| Power Line   | 1.5m non-shielded cable with one core |

4. The WiFi and Bluetooth cannot transmit simultaneously.

### 3.2 Description of Test Modes

#### 5180~5240MHz:

4 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 36      | 5180 MHz  | 44      | 5220 MHz  |
| 40      | 5200 MHz  | 48      | 5240 MHz  |

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 38      | 5190 MHz  | 46      | 5230 MHz  |

1 channel is provided for 802.11ac (VHT80):

| Channel | Frequency |
|---------|-----------|
| 42      | 5210MHz   |

#### 5260~5320MHz:

4 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 52      | 5260 MHz  | 60      | 5300 MHz  |
| 56      | 5280 MHz  | 64      | 5320 MHz  |

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 54      | 5270 MHz  | 62      | 5310 MHz  |

1 channel is provided for 802.11ac (VHT80):

| Channel | Frequency |
|---------|-----------|
| 58      | 5290MHz   |

#### 5500~5700MHz:

11 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 100     | 5500 MHz  | 124     | 5620 MHz  |
| 104     | 5520 MHz  | 128     | 5640 MHz  |
| 108     | 5540 MHz  | 132     | 5660 MHz  |
| 112     | 5560 MHz  | 136     | 5680 MHz  |
| 116     | 5580 MHz  | 140     | 5700 MHz  |
| 120     | 5600 MHz  |         |           |

5 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 102     | 5510 MHz  | 126     | 5630 MHz  |
| 110     | 5550 MHz  | 134     | 5670 MHz  |
| 118     | 5590 MHz  |         |           |

2 channels are provided for 802.11ac (VHT80):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 106     | 5530 MHz  | 122     | 5610 MHz  |

#### 5745~5825MHz:

5 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 149     | 5745MHz   | 161     | 5805MHz   |
| 153     | 5765MHz   | 165     | 5825MHz   |
| 157     | 5785MHz   |         |           |

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 151     | 5755MHz   | 159     | 5795MHz   |

1 channel is provided for 802.11ac (VHT80):

| Channel | Frequency |
|---------|-----------|
| 155     | 5775MHz   |

### 3.2.1 Test Mode Applicability and Tested Channel Detail

| EUT Configure Mode | Applicable to |       |     |      | Description |
|--------------------|---------------|-------|-----|------|-------------|
|                    | RE $\geq$ 1G  | RE<1G | PLC | APCM |             |
| A                  | √             | √     | √   | -    | Ant. 0      |
| B                  | √             | √     | √   | √    | Ant. 1      |

Where RE $\geq$ 1G: Radiated Emission above 1GHz & Bandedge Measurement  
RE<1G: Radiated Emission below 1GHz

PLC: Power Line Conducted Emission

APCM: Antenna Port Conducted Measurement

**NOTE:**

1. The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on X-plane
2. "-": Means no effect.

#### Radiated Emission Test (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.

| EUT Configure Mode | Mode             | Frequency Band (MHz) | Available Channel | Tested Channel | Modulation Technology | Data Rate (Mbps) |
|--------------------|------------------|----------------------|-------------------|----------------|-----------------------|------------------|
| A, B               | 802.11a          | 5180-5240            | 36 to 48          | 36, 40, 48     | OFDM                  | 6.0              |
|                    | 802.11n (HT20)   |                      | 36 to 48          | 36, 40, 48     | OFDM                  | 6.5              |
|                    | 802.11n (HT40)   |                      | 38 to 46          | 38, 46         | OFDM                  | 13.5             |
|                    | 802.11ac (VHT80) |                      | 42                | 42             | OFDM                  | 29.3             |
| A, B               | 802.11a          | 5260-5320            | 52 to 64          | 52, 60, 64     | OFDM                  | 6.0              |
|                    | 802.11n (HT20)   |                      | 52 to 64          | 52, 60, 64     | OFDM                  | 6.5              |
|                    | 802.11n (HT40)   |                      | 54 to 62          | 54, 62         | OFDM                  | 13.5             |
|                    | 802.11ac (VHT80) |                      | 58                | 58             | OFDM                  | 29.3             |
| A, B               | 802.11a          | 5500-5700            | 100 to 140        | 100, 116, 140  | OFDM                  | 6.0              |
|                    | 802.11n (HT20)   |                      | 100 to 140        | 100, 116, 140  | OFDM                  | 6.5              |
|                    | 802.11n (HT40)   |                      | 102 to 134        | 102, 110, 134  | OFDM                  | 13.5             |
|                    | 802.11ac (VHT80) |                      | 106 to 122        | 106, 122       | OFDM                  | 29.3             |
| A, B               | 802.11a          | 5745-5825            | 149 to 165        | 149, 157, 165  | OFDM                  | 6.0              |
|                    | 802.11n (HT20)   |                      | 149 to 165        | 149, 157, 165  | OFDM                  | 6.5              |
|                    | 802.11n (HT40)   |                      | 151 to 159        | 151, 159       | OFDM                  | 13.5             |
|                    | 802.11ac (VHT80) |                      | 155               | 155            | OFDM                  | 29.3             |

#### Radiated Emission Test (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.

| EUT Configure Mode | Mode    | Frequency Band (MHz) | Available Channel | Tested Channel | Modulation Technology | Data Rate (Mbps) |
|--------------------|---------|----------------------|-------------------|----------------|-----------------------|------------------|
| A, B               | 802.11a | 5180-5240            | 36 to 48          | 36             | OFDM                  | 6.0              |
|                    |         | 5260-5320            | 52 to 64          |                | OFDM                  | 6.0              |
|                    |         | 5500-5700            | 100 to 144        |                | OFDM                  | 6.0              |
|                    |         | 5745-5825            | 149 to 165        |                | OFDM                  | 6.0              |

### Power Line Conducted Emission Test:

- ☒ 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.

| EUT Configure Mode | Mode    | Frequency Band (MHz) | Available Channel | Tested Channel | Modulation Technology | Data Rate (Mbps) |
|--------------------|---------|----------------------|-------------------|----------------|-----------------------|------------------|
| A, B               | 802.11a | 5180-5240            | 36 to 48          | 36             | OFDM                  | 6.0              |
|                    |         | 5260-5320            | 52 to 64          |                | OFDM                  | 6.0              |
|                    |         | 5500-5700            | 100 to 144        |                | OFDM                  | 6.0              |
|                    |         | 5745-5825            | 149 to 165        |                | OFDM                  | 6.0              |

### 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.

| EUT Configure Mode | Mode             | Frequency Band (MHz) | Available Channel | Tested Channel | Modulation Technology | Data Rate (Mbps) |
|--------------------|------------------|----------------------|-------------------|----------------|-----------------------|------------------|
| B                  | 802.11a          | 5180-5240            | 36 to 48          | 36, 40, 48     | OFDM                  | 6.0              |
|                    | 802.11n (HT20)   |                      | 36 to 48          | 36, 40, 48     | OFDM                  | 6.5              |
|                    | 802.11n (HT40)   |                      | 38 to 46          | 38, 46         | OFDM                  | 13.5             |
|                    | 802.11ac (VHT80) |                      | 42                | 42             | OFDM                  | 29.3             |
| B                  | 802.11a          | 5260-5320            | 52 to 64          | 52, 60, 64     | OFDM                  | 6.0              |
|                    | 802.11n (HT20)   |                      | 52 to 64          | 52, 60, 64     | OFDM                  | 6.5              |
|                    | 802.11n (HT40)   |                      | 54 to 62          | 54, 62         | OFDM                  | 13.5             |
|                    | 802.11ac (VHT80) |                      | 58                | 58             | OFDM                  | 29.3             |
| B                  | 802.11a          | 5500-5700            | 100 to 140        | 100, 116, 140  | OFDM                  | 6.0              |
|                    | 802.11n (HT20)   |                      | 100 to 140        | 100, 116, 140  | OFDM                  | 6.5              |
|                    | 802.11n (HT40)   |                      | 102 to 134        | 102, 110, 134  | OFDM                  | 13.5             |
|                    | 802.11ac (VHT80) |                      | 106 to 122        | 106, 122       | OFDM                  | 29.3             |
| B                  | 802.11a          | 5745-5825            | 149 to 165        | 149, 157, 165  | OFDM                  | 6.0              |
|                    | 802.11n (HT20)   |                      | 149 to 165        | 149, 157, 165  | OFDM                  | 6.5              |
|                    | 802.11n (HT40)   |                      | 151 to 159        | 151, 159       | OFDM                  | 13.5             |
|                    | 802.11ac (VHT80) |                      | 155               | 155            | OFDM                  | 29.3             |

### Test Condition:

| Applicable to | Environmental Conditions | Input Power  | Tested by              |
|---------------|--------------------------|--------------|------------------------|
| RE $\geq$ 1G  | 25deg. C, 66%RH          | 120Vac, 60Hz | Greg Lin<br>James Yang |
| RE<1G         | 25deg. C, 66%RH          | 120Vac, 60Hz | Greg Lin               |
| PLC           | 25deg. C, 75%RH          | 120Vac, 60Hz | Matthew Yang           |
| APCM          | 25deg. C, 60%RH          | 120Vac, 60Hz | Chris Lin              |

### 3.3 Duty Cycle of Test Signal

Duty cycle of test signal is > 98%, duty factor is not required.

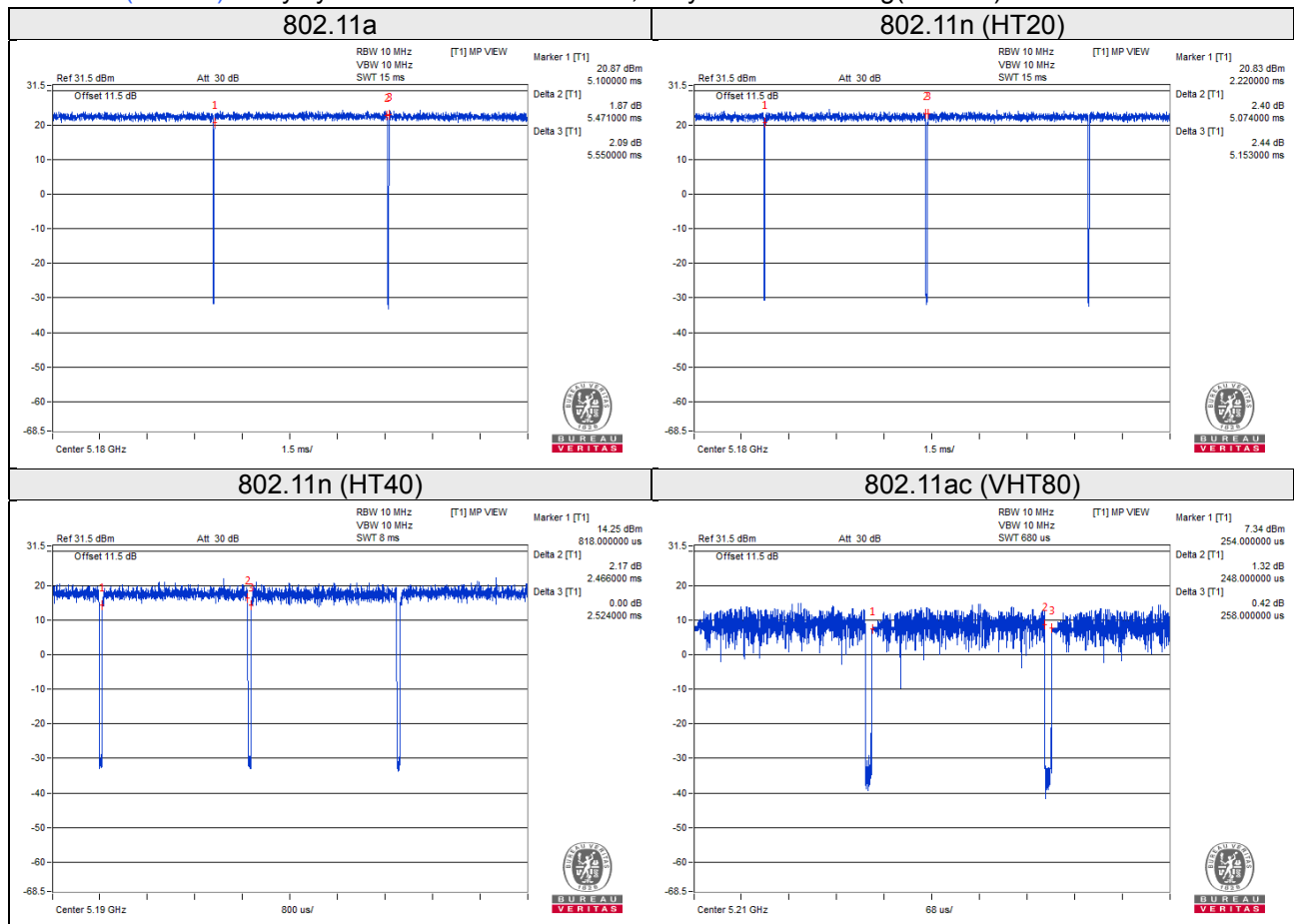
Duty cycle of test signal is < 98 %, duty factor is required.

802.11a: Duty cycle =  $5.471/5.55 = 0.986$

802.11n (HT20): Duty cycle =  $5.074/5.153 = 0.985$

802.11n (HT40): Duty cycle =  $2.466/2.524 = 0.977$ , Duty factor =  $10 * \log(1/0.977) = 0.10$

802.11ac (VHT80): Duty cycle =  $0.248/0.258 = 0.961$ , Duty factor =  $10 * \log(1/0.961) = 0.17$



### 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. | Notebook | ASUS  | P2420L    | FCNXCV16385351D | FCC DoC Approved | -       |

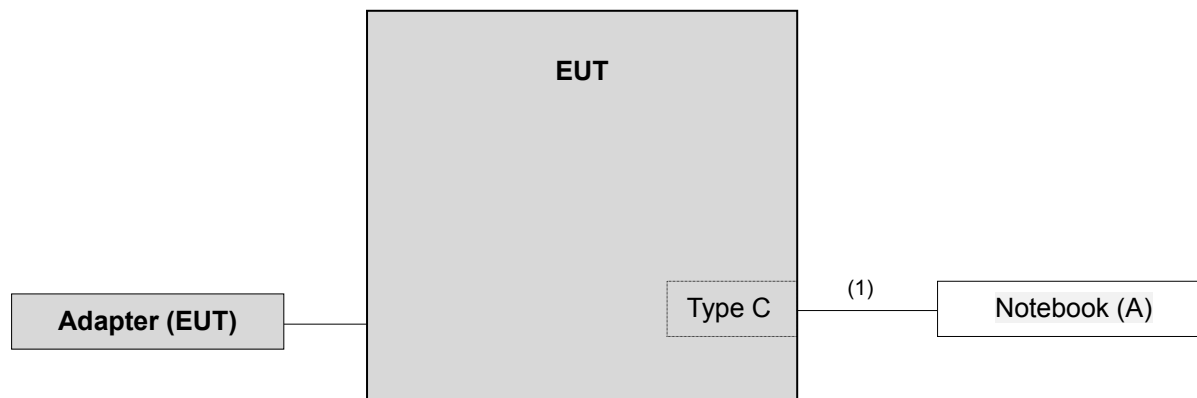
Note:

1. 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. | Type C to USB cable | 1    | 1.0        | -                  | 0            | -       |

Note: The core(s) is(are) originally attached to the cable(s).

#### 3.4.1 Configuration of System under Test



### 3.5 General Description of Applied Standards

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

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

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

**KDB 662911 D01 Multiple Transmitter Output v02r01**

**ANSI C63.10:2013**

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

Note: The EUT has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.

## 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

| Applicable To                                                                                    |                                     |                  | Limit                                                                                                                                   |                                                                                                                                           |
|--------------------------------------------------------------------------------------------------|-------------------------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| 789033 D02 General UNII Test Procedure<br>New Rules v02r01                                       |                                     |                  | Field Strength at 3m                                                                                                                    |                                                                                                                                           |
|                                                                                                  |                                     |                  | PK: 74 (dBµV/m)                                                                                                                         | AV: 54 (dBµV/m)                                                                                                                           |
| Frequency Band                                                                                   | Applicable To                       |                  | EIRP Limit                                                                                                                              | Equivalent Field Strength at 3m                                                                                                           |
| 5150~5250 MHz                                                                                    | 15.407(b)(1)                        |                  | PK: -27 (dBm/MHz)                                                                                                                       | PK: 68.2(dBµV/m)                                                                                                                          |
| 5250~5350 MHz                                                                                    | 15.407(b)(2)                        |                  |                                                                                                                                         |                                                                                                                                           |
| 5470~5725 MHz                                                                                    | 15.407(b)(3)                        |                  |                                                                                                                                         |                                                                                                                                           |
| 5725~5850 MHz                                                                                    | <input checked="" type="checkbox"/> | 15.407(b)(4)(i)  | PK: -27 (dBm/MHz) <sup>*1</sup><br>PK: 10 (dBm/MHz) <sup>*2</sup><br>PK: 15.6 (dBm/MHz) <sup>*3</sup><br>PK: 27 (dBm/MHz) <sup>*4</sup> | PK: 68.2(dBµV/m) <sup>*1</sup><br>PK: 105.2 (dBµV/m) <sup>*2</sup><br>PK: 110.8(dBµV/m) <sup>*3</sup><br>PK: 122.2 (dBµV/m) <sup>*4</sup> |
|                                                                                                  | <input type="checkbox"/>            | 15.407(b)(4)(ii) | Emission limits in section 15.247(d)                                                                                                    |                                                                                                                                           |
| <sup>*1</sup> beyond 75 MHz or more above of the band edge.                                      |                                     |                  | <sup>*2</sup> below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.                                                    |                                                                                                                                           |
| <sup>*3</sup> below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above. |                                     |                  | <sup>*4</sup> from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.                    |                                                                                                                                           |

**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

| Description & Manufacturer              | Model No.                    | Serial No.           | Cal. Date     | Cal. Due      |
|-----------------------------------------|------------------------------|----------------------|---------------|---------------|
| Test Receiver<br>KEYSIGHT               | N9038A                       | MY55420137           | Mar. 27, 2017 | Mar. 26, 2018 |
| Spectrum Analyzer<br>ROHDE & SCHWARZ    | FSP40                        | 100269               | May 11, 2017  | May 10, 2018  |
| BILOG Antenna<br>SCHWARZBECK            | VULB9168                     | 9168-148             | Dec. 11, 2017 | Dec. 10, 2018 |
| HORN Antenna<br>SCHWARZBECK             | BBHA 9120 D                  | 9120D-1169           | Dec. 12, 2017 | Dec. 11, 2018 |
| HORN Antenna<br>SCHWARZBECK             | BBHA 9170                    | BBHA9170241          | Dec. 01, 2017 | Nov. 30, 2018 |
| Loop Antenna<br>EMCI                    | EM-6879                      | 269                  | Aug. 11, 2017 | Aug. 10, 2018 |
| Preamplifier<br>Agilent<br>(Below 1GHz) | 8447D                        | 2944A10638           | Aug. 08, 2017 | Aug. 07, 2018 |
| Preamplifier<br>Agilent<br>(Above 1GHz) | 8449B                        | 3008A01638           | Feb. 22, 2017 | Feb. 21, 2018 |
| RF signal cable<br>HUBER+SUHNER&EMCI    | SUCOFLEX 104                 | MY 13380+295012/04   | Aug. 08, 2017 | Aug. 07, 2018 |
| RF signal cable<br>HUBER+SUHNER         | SUCOFLEX 104                 | CABLE-CH9-(250795/4) | Aug. 08, 2017 | Aug. 07, 2018 |
| RF signal cable<br>Woken                | 8D-FB                        | Cable-CH9-01         | Aug. 01, 2017 | Jul. 31, 2018 |
| Software<br>BV ADT                      | ADT_Radiated_<br>V7.6.15.9.4 | NA                   | NA            | NA            |
| Antenna Tower<br>EMCO                   | 2070/2080                    | 512.835.4684         | NA            | NA            |
| Turn Table<br>EMCO                      | 2087-2.03                    | NA                   | NA            | NA            |
| Antenna Tower & Turn<br>BV ADT          | AT100                        | AT93021705           | NA            | NA            |
| Turn Table<br>BV ADT                    | TT100                        | TT93021705           | NA            | NA            |
| Turn Table Controller<br>BV ADT         | SC100                        | SC93021705           | NA            | NA            |
| 26GHz ~ 40GHz Amplifier                 | EMC 012645                   | 980115               | Oct. 20, 2017 | Oct. 19, 2018 |
| High Speed Peak Power<br>Meter          | ML2495A                      | 0824012              | Aug. 18, 2017 | Aug. 17, 2018 |
| Power Sensor                            | MA2411B                      | 0738171              | Aug. 18, 2017 | Aug. 17, 2018 |

- 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 HwaYa Chamber 9.
3. The horn antenna and preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
4. The IC Site Registration No. is IC 7450F-9.

### 4.1.3 Test Procedures

#### 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. Both X and Y axes 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 and average detect 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 average detector is unnecessary.

**Note:**

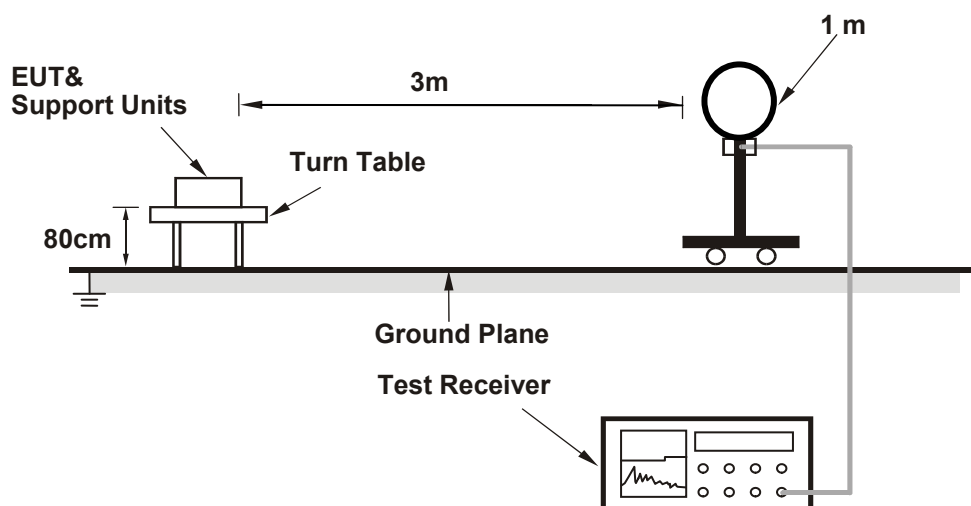
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The 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 detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

#### 4.1.4 Deviation from Test Standard

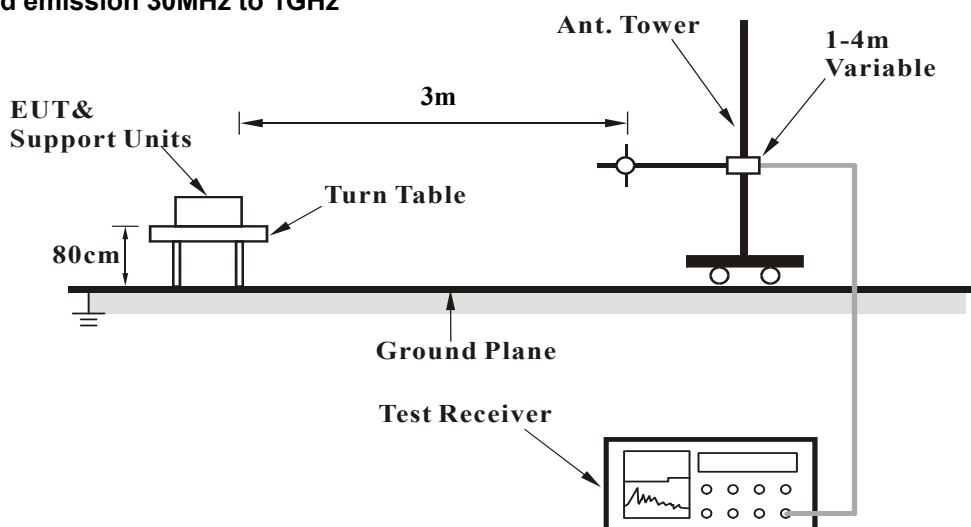
No deviation.

#### 4.1.5 Test Set Up

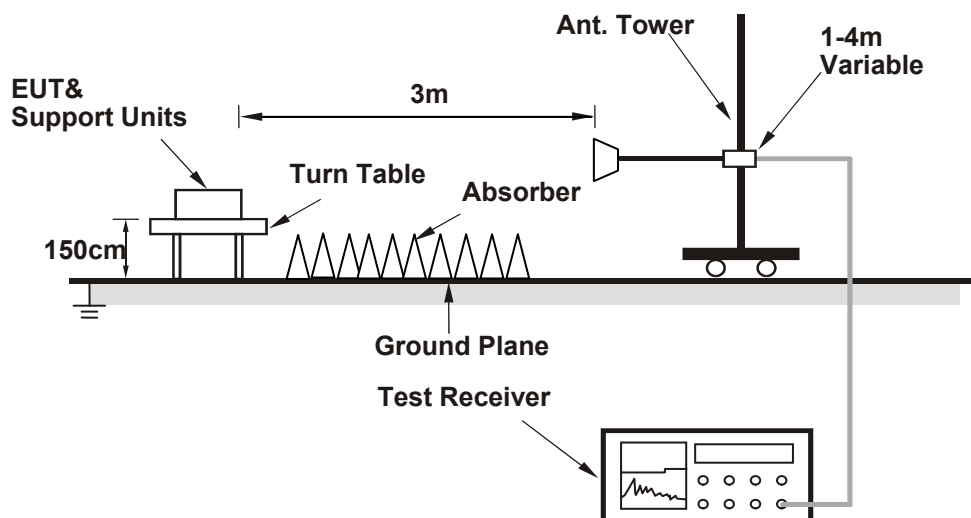
##### For Radiated emission below 30MHz



##### 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).

#### 4.1.6 EUT Operating Conditions

- Connected the EUT and a notebook via a type C to USB cable and placed them on the testing table.
- The notebook ran a test program to enable EUT under transmission condition continuously at specific channel frequency.

#### 4.1.7 Test Results

Above 1GHz data:

#### Test Mode A

802.11a

|                 |               |          |              |
|-----------------|---------------|----------|--------------|
| CHANNEL         | TX Channel 36 | DETECTOR | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz  | FUNCTION | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 5150.00        | 65.9 PK                       | 74.0              | -8.1           | 1.29 H                   | 203                        | 61.9                   | 4.0                            |
| 2                                                   | 5150.00        | 49.3 AV                       | 54.0              | -4.7           | 1.29 H                   | 203                        | 45.3                   | 4.0                            |
| 3                                                   | *5180.00       | 110.0 PK                      |                   |                | 1.43 H                   | 190                        | 69.3                   | 40.7                           |
| 4                                                   | *5180.00       | 98.8 AV                       |                   |                | 1.43 H                   | 190                        | 58.1                   | 40.7                           |
| 5                                                   | #10360.00      | 58.9 PK                       | 74.0              | -15.1          | 2.56 H                   | 147                        | 43.5                   | 15.4                           |
| 6                                                   | #10360.00      | 45.7 AV                       | 54.0              | -8.3           | 2.56 H                   | 147                        | 30.3                   | 15.4                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 5150.00        | 59.7 PK                       | 74.0              | -14.3          | 1.10 V                   | 331                        | 55.7                   | 4.0                            |
| 2                                                   | 5150.00        | 46.1 AV                       | 54.0              | -7.9           | 1.10 V                   | 331                        | 42.1                   | 4.0                            |
| 3                                                   | *5180.00       | 105.5 PK                      |                   |                | 1.00 V                   | 329                        | 64.8                   | 40.7                           |
| 4                                                   | *5180.00       | 95.1 AV                       |                   |                | 1.00 V                   | 329                        | 54.4                   | 40.7                           |
| 5                                                   | #10360.00      | 57.5 PK                       | 74.0              | -16.5          | 1.93 V                   | 214                        | 42.1                   | 15.4                           |
| 6                                                   | #10360.00      | 44.8 AV                       | 54.0              | -9.2           | 1.93 V                   | 214                        | 29.4                   | 15.4                           |

#### 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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |               |          |              |
|-----------------|---------------|----------|--------------|
| CHANNEL         | TX Channel 40 | DETECTOR | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz  | FUNCTION | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5200.00       | 108.8 PK                      |                   |                | 1.47 H                   | 198                        | 68.1                   | 40.7                           |
| 2                                                   | *5200.00       | 98.6 AV                       |                   |                | 1.47 H                   | 198                        | 57.9                   | 40.7                           |
| 3                                                   | #10400.00      | 58.5 PK                       | 74.0              | -15.5          | 2.43 H                   | 152                        | 43.1                   | 15.4                           |
| 4                                                   | #10400.00      | 45.6 AV                       | 54.0              | -8.4           | 2.43 H                   | 152                        | 30.2                   | 15.4                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5200.00       | 105.1 PK                      |                   |                | 1.00 V                   | 335                        | 64.4                   | 40.7                           |
| 2                                                   | *5200.00       | 94.9 AV                       |                   |                | 1.00 V                   | 335                        | 54.2                   | 40.7                           |
| 3                                                   | #10400.00      | 57.1 PK                       | 74.0              | -16.9          | 2.03 V                   | 186                        | 41.7                   | 15.4                           |
| 4                                                   | #10400.00      | 45.0 AV                       | 54.0              | -9.0           | 2.03 V                   | 186                        | 29.6                   | 15.4                           |

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |               |                   |              |
|-----------------|---------------|-------------------|--------------|
| CHANNEL         | TX Channel 48 | DETECTOR FUNCTION | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz  |                   | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|-----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | *5240.00    | 108.8 PK                |                |             | 1.27 H             | 190                  | 68.3             | 40.5                     |
| 2                                                   | *5240.00    | 98.4 AV                 |                |             | 1.27 H             | 190                  | 57.9             | 40.5                     |
| 3                                                   | 5350.00     | 57.2 PK                 | 74.0           | -16.8       | 1.41 H             | 202                  | 53.1             | 4.1                      |
| 4                                                   | 5350.00     | 44.0 AV                 | 54.0           | -10.0       | 1.41 H             | 202                  | 39.9             | 4.1                      |
| 5                                                   | #10480.00   | 58.4 PK                 | 74.0           | -15.6       | 1.76 H             | 205                  | 42.9             | 15.5                     |
| 6                                                   | #10480.00   | 45.7 AV                 | 54.0           | -8.3        | 1.76 H             | 205                  | 30.2             | 15.5                     |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |             |                         |                |             |                    |                      |                  |                          |
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | *5240.00    | 105.2 PK                |                |             | 1.00 V             | 330                  | 64.7             | 40.5                     |
| 2                                                   | *5240.00    | 95.0 AV                 |                |             | 1.00 V             | 330                  | 54.5             | 40.5                     |
| 3                                                   | 5350.00     | 56.6 PK                 | 74.0           | -17.4       | 1.22 V             | 346                  | 52.5             | 4.1                      |
| 4                                                   | 5350.00     | 43.7 AV                 | 54.0           | -10.3       | 1.22 V             | 346                  | 39.6             | 4.1                      |
| 5                                                   | #10480.00   | 57.3 PK                 | 74.0           | -16.7       | 1.54 V             | 158                  | 41.8             | 15.5                     |
| 6                                                   | #10480.00   | 44.9 AV                 | 54.0           | -9.1        | 1.54 V             | 158                  | 29.4             | 15.5                     |

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |               |                   |              |
|-----------------|---------------|-------------------|--------------|
| CHANNEL         | TX Channel 52 | DETECTOR FUNCTION | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz  |                   | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|-----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | 5150.00     | 55.8 PK                 | 74.0           | -18.2       | 1.52 H             | 198                  | 51.8             | 4.0                      |
| 2                                                   | 5150.00     | 42.6 AV                 | 54.0           | -11.4       | 1.52 H             | 198                  | 38.6             | 4.0                      |
| 3                                                   | *5260.00    | 107.5 PK                |                |             | 1.61 H             | 176                  | 67.0             | 40.5                     |
| 4                                                   | *5260.00    | 97.9 AV                 |                |             | 1.61 H             | 176                  | 57.4             | 40.5                     |
| 5                                                   | #10520.00   | 58.6 PK                 | 74.0           | -15.4       | 2.90 H             | 111                  | 43.1             | 15.5                     |
| 6                                                   | #10520.00   | 43.8 AV                 | 54.0           | -10.2       | 2.90 H             | 111                  | 28.3             | 15.5                     |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |             |                         |                |             |                    |                      |                  |                          |
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | 5150.00     | 55.7 PK                 | 74.0           | -18.3       | 2.94 V             | 166                  | 51.7             | 4.0                      |
| 2                                                   | 5150.00     | 42.5 AV                 | 54.0           | -11.5       | 2.94 V             | 166                  | 38.5             | 4.0                      |
| 3                                                   | *5260.00    | 109.1 PK                |                |             | 2.99 V             | 164                  | 68.6             | 40.5                     |
| 4                                                   | *5260.00    | 98.3 AV                 |                |             | 2.99 V             | 164                  | 57.8             | 40.5                     |
| 5                                                   | #10520.00   | 57.1 PK                 | 74.0           | -16.9       | 2.13 V             | 118                  | 41.6             | 15.5                     |
| 6                                                   | #10520.00   | 43.9 AV                 | 54.0           | -10.1       | 2.13 V             | 118                  | 28.4             | 15.5                     |

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |               |          |              |
|-----------------|---------------|----------|--------------|
| CHANNEL         | TX Channel 60 | DETECTOR | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz  | FUNCTION | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5300.00       | 108.1 PK                      |                   |                | 1.57 H                   | 193                        | 67.6                   | 40.5                           |
| 2                                                   | *5300.00       | 96.8 AV                       |                   |                | 1.57 H                   | 193                        | 56.3                   | 40.5                           |
| 3                                                   | 10600.00       | 57.0 PK                       | 74.0              | -17.0          | 2.84 H                   | 125                        | 41.2                   | 15.8                           |
| 4                                                   | 10600.00       | 44.0 AV                       | 54.0              | -10.0          | 2.84 H                   | 125                        | 28.2                   | 15.8                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5300.00       | 108.1 PK                      |                   |                | 2.96 V                   | 166                        | 67.6                   | 40.5                           |
| 2                                                   | *5300.00       | 97.6 AV                       |                   |                | 2.96 V                   | 166                        | 57.1                   | 40.5                           |
| 3                                                   | 10600.00       | 57.7 PK                       | 74.0              | -16.3          | 1.68 V                   | 113                        | 41.9                   | 15.8                           |
| 4                                                   | 10600.00       | 44.1 AV                       | 54.0              | -9.9           | 1.68 V                   | 113                        | 28.3                   | 15.8                           |

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |               |                   |              |
|-----------------|---------------|-------------------|--------------|
| CHANNEL         | TX Channel 64 | DETECTOR FUNCTION | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz  |                   | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|-----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | *5320.00    | 106.7 PK                |                |             | 1.38 H             | 193                  | 66.1             | 40.6                     |
| 2                                                   | *5320.00    | 96.6 AV                 |                |             | 1.38 H             | 193                  | 56.0             | 40.6                     |
| 3                                                   | 5350.00     | 62.7 PK                 | 74.0           | -11.3       | 1.38 H             | 172                  | 58.6             | 4.1                      |
| 4                                                   | 5350.00     | 46.1 AV                 | 54.0           | -7.9        | 1.38 H             | 172                  | 42.0             | 4.1                      |
| 5                                                   | 10640.00    | 56.8 PK                 | 74.0           | -17.2       | 2.61 H             | 145                  | 41.0             | 15.8                     |
| 6                                                   | 10640.00    | 43.8 AV                 | 54.0           | -10.2       | 2.61 H             | 145                  | 28.0             | 15.8                     |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |             |                         |                |             |                    |                      |                  |                          |
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | *5320.00    | 108.9 PK                |                |             | 2.94 V             | 169                  | 68.3             | 40.6                     |
| 2                                                   | *5320.00    | 98.2 AV                 |                |             | 2.94 V             | 169                  | 57.6             | 40.6                     |
| 3                                                   | 5350.00     | 64.9 PK                 | 74.0           | -9.1        | 2.78 V             | 167                  | 60.8             | 4.1                      |
| 4                                                   | 5350.00     | 48.2 AV                 | 54.0           | -5.8        | 2.78 V             | 167                  | 44.1             | 4.1                      |
| 5                                                   | 10640.00    | 56.6 PK                 | 74.0           | -17.4       | 2.95 V             | 301                  | 40.8             | 15.8                     |
| 6                                                   | 10640.00    | 43.1 AV                 | 54.0           | -10.9       | 2.95 V             | 301                  | 27.3             | 15.8                     |

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |                |          |              |
|-----------------|----------------|----------|--------------|
| CHANNEL         | TX Channel 100 | DETECTOR | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz   | FUNCTION | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 5460.00        | 56.7 PK                       | 74.0              | -17.3          | 1.33 H                   | 201                        | 52.4                   | 4.3                            |
| 2                                                   | 5460.00        | 42.9 AV                       | 54.0              | -11.1          | 1.33 H                   | 201                        | 38.6                   | 4.3                            |
| 3                                                   | #5470.00       | 61.3 PK                       | 74.0              | -12.7          | 1.35 H                   | 196                        | 56.9                   | 4.4                            |
| 4                                                   | #5470.00       | 45.3 AV                       | 54.0              | -8.7           | 1.35 H                   | 196                        | 40.9                   | 4.4                            |
| 5                                                   | *5500.00       | 108.0 PK                      |                   |                | 1.38 H                   | 198                        | 66.7                   | 41.3                           |
| 6                                                   | *5500.00       | 97.1 AV                       |                   |                | 1.38 H                   | 198                        | 55.8                   | 41.3                           |
| 7                                                   | 11000.00       | 57.9 PK                       | 74.0              | -16.1          | 1.48 H                   | 305                        | 40.4                   | 17.5                           |
| 8                                                   | 11000.00       | 45.1 AV                       | 54.0              | -8.9           | 1.48 H                   | 305                        | 27.6                   | 17.5                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 5460.00        | 59.1 PK                       | 74.0              | -14.9          | 2.27 V                   | 120                        | 54.8                   | 4.3                            |
| 2                                                   | 5460.00        | 43.5 AV                       | 54.0              | -10.5          | 2.27 V                   | 120                        | 39.2                   | 4.3                            |
| 3                                                   | #5470.00       | 64.4 PK                       | 74.0              | -9.6           | 2.34 V                   | 114                        | 60.0                   | 4.4                            |
| 4                                                   | #5470.00       | 45.6 AV                       | 54.0              | -8.4           | 2.34 V                   | 114                        | 41.2                   | 4.4                            |
| 5                                                   | *5500.00       | 109.4 PK                      |                   |                | 2.31 V                   | 114                        | 68.1                   | 41.3                           |
| 6                                                   | *5500.00       | 98.3 AV                       |                   |                | 2.31 V                   | 114                        | 57.0                   | 41.3                           |
| 7                                                   | 11000.00       | 58.4 PK                       | 74.0              | -15.6          | 3.47 V                   | 85                         | 40.9                   | 17.5                           |
| 8                                                   | 11000.00       | 45.1 AV                       | 54.0              | -8.9           | 3.47 V                   | 85                         | 27.6                   | 17.5                           |

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |                |          |              |
|-----------------|----------------|----------|--------------|
| CHANNEL         | TX Channel 116 | DETECTOR | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz   | FUNCTION | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5580.00       | 107.5 PK                      |                   |                | 1.38 H                   | 202                        | 66.1                   | 41.4                           |
| 2                                                   | *5580.00       | 97.1 AV                       |                   |                | 1.38 H                   | 202                        | 55.7                   | 41.4                           |
| 3                                                   | 11160.00       | 56.9 PK                       | 74.0              | -17.1          | 2.33 H                   | 74                         | 40.9                   | 16.0                           |
| 4                                                   | 11160.00       | 43.9 AV                       | 54.0              | -10.1          | 2.33 H                   | 74                         | 27.9                   | 16.0                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5580.00       | 111.8 PK                      |                   |                | 2.32 V                   | 114                        | 70.4                   | 41.4                           |
| 2                                                   | *5580.00       | 101.4 AV                      |                   |                | 2.32 V                   | 114                        | 60.0                   | 41.4                           |
| 3                                                   | 11160.00       | 56.7 PK                       | 74.0              | -17.3          | 1.68 V                   | 342                        | 40.7                   | 16.0                           |
| 4                                                   | 11160.00       | 43.9 AV                       | 54.0              | -10.1          | 1.68 V                   | 342                        | 27.9                   | 16.0                           |

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |                |          |              |
|-----------------|----------------|----------|--------------|
| CHANNEL         | TX Channel 140 | DETECTOR | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz   | FUNCTION | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5700.00       | 107.0 PK                      |                   |                | 1.39 H                   | 190                        | 65.5                   | 41.5                           |
| 2                                                   | *5700.00       | 96.7 AV                       |                   |                | 1.39 H                   | 190                        | 55.2                   | 41.5                           |
| 3                                                   | #5725.00       | 73.4 PK                       | 74.0              | -0.6           | 1.38 H                   | 189                        | 68.5                   | 4.9                            |
| 4                                                   | #5725.00       | 47.1 AV                       | 54.0              | -6.9           | 1.38 H                   | 189                        | 42.2                   | 4.9                            |
| 5                                                   | 11400.00       | 58.8 PK                       | 74.0              | -15.2          | 2.23 H                   | 194                        | 42.7                   | 16.1                           |
| 6                                                   | 11400.00       | 45.6 AV                       | 54.0              | -8.4           | 2.23 H                   | 194                        | 29.5                   | 16.1                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5700.00       | 113.6 PK                      |                   |                | 2.29 V                   | 114                        | 72.1                   | 41.5                           |
| 2                                                   | *5700.00       | 102.8 AV                      |                   |                | 2.29 V                   | 114                        | 61.3                   | 41.5                           |
| 3                                                   | #5725.00       | 67.2 PK                       | 74.0              | -6.8           | 2.23 V                   | 115                        | 62.3                   | 4.9                            |
| 4                                                   | #5725.00       | 50.8 AV                       | 54.0              | -3.2           | 2.23 V                   | 115                        | 45.9                   | 4.9                            |
| 5                                                   | 11400.00       | 58.3 PK                       | 74.0              | -15.7          | 2.78 V                   | 116                        | 42.2                   | 16.1                           |
| 6                                                   | 11400.00       | 45.4 AV                       | 54.0              | -8.6           | 2.78 V                   | 116                        | 29.3                   | 16.1                           |

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |                |          |              |
|-----------------|----------------|----------|--------------|
| CHANNEL         | TX Channel 149 | DETECTOR | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz   | FUNCTION | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | #5612.00       | 57.2 PK                       | 68.2              | -11.0          | 1.18 H                   | 187                        | 52.5                   | 4.7                            |
| 2                                                   | *5745.00       | 107.5 PK                      |                   |                | 1.18 H                   | 187                        | 65.8                   | 41.7                           |
| 3                                                   | *5745.00       | 97.4 AV                       |                   |                | 1.18 H                   | 187                        | 55.7                   | 41.7                           |
| 4                                                   | #5987.20       | 58.1 PK                       | 68.2              | -10.1          | 1.18 H                   | 187                        | 52.6                   | 5.5                            |
| 5                                                   | 11490.00       | 59.2 PK                       | 74.0              | -14.8          | 2.45 H                   | 157                        | 43.2                   | 16.0                           |
| 6                                                   | 11490.00       | 46.2 AV                       | 54.0              | -7.8           | 2.45 H                   | 157                        | 30.2                   | 16.0                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | #5630.40       | 56.6 PK                       | 68.2              | -11.6          | 1.70 V                   | 117                        | 51.9                   | 4.7                            |
| 2                                                   | *5745.00       | 107.9 PK                      |                   |                | 1.70 V                   | 117                        | 66.2                   | 41.7                           |
| 3                                                   | *5745.00       | 97.8 AV                       |                   |                | 1.70 V                   | 117                        | 56.1                   | 41.7                           |
| 4                                                   | #5994.40       | 57.8 PK                       | 68.2              | -10.4          | 1.70 V                   | 117                        | 52.3                   | 5.5                            |
| 5                                                   | 11490.00       | 58.8 PK                       | 74.0              | -15.2          | 1.76 V                   | 254                        | 42.8                   | 16.0                           |
| 6                                                   | 11490.00       | 45.8 AV                       | 54.0              | -8.2           | 1.76 V                   | 254                        | 29.8                   | 16.0                           |

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |                |          |              |
|-----------------|----------------|----------|--------------|
| CHANNEL         | TX Channel 157 | DETECTOR | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz   | FUNCTION | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | #5605.60       | 56.8 PK                       | 68.2              | -11.4          | 1.43 H                   | 220                        | 52.1                   | 4.7                            |
| 2                                                   | *5785.00       | 108.0 PK                      |                   |                | 1.43 H                   | 220                        | 66.1                   | 41.9                           |
| 3                                                   | *5785.00       | 97.9 AV                       |                   |                | 1.43 H                   | 220                        | 56.0                   | 41.9                           |
| 4                                                   | #5964.80       | 58.2 PK                       | 68.2              | -10.0          | 1.43 H                   | 220                        | 52.8                   | 5.4                            |
| 5                                                   | 11570.00       | 58.3 PK                       | 74.0              | -15.7          | 2.16 H                   | 324                        | 42.7                   | 15.6                           |
| 6                                                   | 11570.00       | 45.3 AV                       | 54.0              | -8.7           | 2.16 H                   | 324                        | 29.7                   | 15.6                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | #5632.00       | 56.2 PK                       | 68.2              | -12.0          | 1.68 V                   | 111                        | 51.5                   | 4.7                            |
| 2                                                   | *5785.00       | 109.4 PK                      |                   |                | 1.68 V                   | 111                        | 67.5                   | 41.9                           |
| 3                                                   | *5785.00       | 99.2 AV                       |                   |                | 1.68 V                   | 111                        | 57.3                   | 41.9                           |
| 4                                                   | #5997.60       | 57.4 PK                       | 68.2              | -10.8          | 1.68 V                   | 111                        | 51.9                   | 5.5                            |
| 5                                                   | 11570.00       | 58.4 PK                       | 74.0              | -15.6          | 1.62 V                   | 253                        | 42.8                   | 15.6                           |
| 6                                                   | 11570.00       | 45.8 AV                       | 54.0              | -8.2           | 1.62 V                   | 253                        | 30.2                   | 15.6                           |

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |                |                   |              |
|-----------------|----------------|-------------------|--------------|
| CHANNEL         | TX Channel 165 | DETECTOR FUNCTION | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz   |                   | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|-----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | #5635.20    | 57.3 PK                 | 68.2           | -10.9       | 1.41 H             | 173                  | 52.6             | 4.7                      |
| 2                                                   | *5825.00    | 108.3 PK                |                |             | 1.41 H             | 173                  | 66.2             | 42.1                     |
| 3                                                   | *5825.00    | 98.1 AV                 |                |             | 1.41 H             | 173                  | 56.0             | 42.1                     |
| 4                                                   | #5983.20    | 58.3 PK                 | 68.2           | -9.9        | 1.41 H             | 173                  | 52.8             | 5.5                      |
| 5                                                   | 11650.00    | 58.0 PK                 | 74.0           | -16.0       | 2.43 H             | 169                  | 42.7             | 15.3                     |
| 6                                                   | 11650.00    | 44.9 AV                 | 54.0           | -9.1        | 2.43 H             | 169                  | 29.6             | 15.3                     |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |             |                         |                |             |                    |                      |                  |                          |
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | #5640.00    | 56.7 PK                 | 68.2           | -11.5       | 1.69 V             | 112                  | 52.0             | 4.7                      |
| 2                                                   | *5825.00    | 109.7 PK                |                |             | 1.69 V             | 112                  | 67.6             | 42.1                     |
| 3                                                   | *5825.00    | 99.5 AV                 |                |             | 1.69 V             | 112                  | 57.4             | 42.1                     |
| 4                                                   | #5982.40    | 57.1 PK                 | 68.2           | -11.1       | 1.69 V             | 112                  | 51.6             | 5.5                      |
| 5                                                   | 11650.00    | 57.9 PK                 | 74.0           | -16.1       | 1.97 V             | 203                  | 42.6             | 15.3                     |
| 6                                                   | 11650.00    | 45.4 AV                 | 54.0           | -8.6        | 1.97 V             | 203                  | 30.1             | 15.3                     |

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

# 802.11n (HT20)

|                 |               |          |              |
|-----------------|---------------|----------|--------------|
| CHANNEL         | TX Channel 36 | DETECTOR | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz  | FUNCTION | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 5150.00        | 65.3 PK                       | 74.0              | -8.7           | 1.48 H                   | 185                        | 61.3                   | 4.0                            |
| 2                                                   | 5150.00        | 47.9 AV                       | 54.0              | -6.1           | 1.48 H                   | 185                        | 43.9                   | 4.0                            |
| 3                                                   | *5180.00       | 107.4 PK                      |                   |                | 1.41 H                   | 185                        | 66.7                   | 40.7                           |
| 4                                                   | *5180.00       | 96.9 AV                       |                   |                | 1.41 H                   | 185                        | 56.2                   | 40.7                           |
| 5                                                   | #10360.00      | 59.8 PK                       | 74.0              | -14.2          | 2.26 H                   | 273                        | 44.4                   | 15.4                           |
| 6                                                   | #10360.00      | 45.6 AV                       | 54.0              | -8.4           | 2.26 H                   | 273                        | 30.2                   | 15.4                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 5150.00        | 65.4 PK                       | 74.0              | -8.6           | 3.10 V                   | 172                        | 61.4                   | 4.0                            |
| 2                                                   | 5150.00        | 46.9 AV                       | 54.0              | -7.1           | 3.10 V                   | 172                        | 42.9                   | 4.0                            |
| 3                                                   | *5180.00       | 108.9 PK                      |                   |                | 2.94 V                   | 174                        | 68.2                   | 40.7                           |
| 4                                                   | *5180.00       | 97.7 AV                       |                   |                | 2.94 V                   | 174                        | 57.0                   | 40.7                           |
| 5                                                   | #10360.00      | 58.7 PK                       | 74.0              | -15.3          | 2.45 V                   | 119                        | 43.3                   | 15.4                           |
| 6                                                   | #10360.00      | 45.4 AV                       | 54.0              | -8.6           | 2.45 V                   | 119                        | 30.0                   | 15.4                           |

## 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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |               |          |              |
|-----------------|---------------|----------|--------------|
| CHANNEL         | TX Channel 40 | DETECTOR | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz  | FUNCTION | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5200.00       | 107.9 PK                      |                   |                | 1.42 H                   | 176                        | 67.2                   | 40.7                           |
| 2                                                   | *5200.00       | 96.9 AV                       |                   |                | 1.42 H                   | 176                        | 56.2                   | 40.7                           |
| 3                                                   | #10400.00      | 58.0 PK                       | 74.0              | -16.0          | 1.63 H                   | 45                         | 42.6                   | 15.4                           |
| 4                                                   | #10400.00      | 45.0 AV                       | 54.0              | -9.0           | 1.63 H                   | 45                         | 29.6                   | 15.4                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5200.00       | 107.9 PK                      |                   |                | 3.06 V                   | 169                        | 67.2                   | 40.7                           |
| 2                                                   | *5200.00       | 97.2 AV                       |                   |                | 3.06 V                   | 169                        | 56.5                   | 40.7                           |
| 3                                                   | #10400.00      | 58.1 PK                       | 74.0              | -15.9          | 1.35 V                   | 207                        | 42.7                   | 15.4                           |
| 4                                                   | #10400.00      | 45.3 AV                       | 54.0              | -8.7           | 1.35 V                   | 207                        | 29.9                   | 15.4                           |

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |               |                   |              |
|-----------------|---------------|-------------------|--------------|
| CHANNEL         | TX Channel 48 | DETECTOR FUNCTION | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz  |                   | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|-----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | *5240.00    | 107.9 PK                |                |             | 1.56 H             | 183                  | 67.4             | 40.5                     |
| 2                                                   | *5240.00    | 97.2 AV                 |                |             | 1.56 H             | 183                  | 56.7             | 40.5                     |
| 3                                                   | 5350.00     | 56.4 PK                 | 74.0           | -17.6       | 1.50 H             | 184                  | 52.3             | 4.1                      |
| 4                                                   | 5350.00     | 42.4 AV                 | 54.0           | -11.6       | 1.50 H             | 184                  | 38.3             | 4.1                      |
| 5                                                   | #10480.00   | 58.2 PK                 | 74.0           | -15.8       | 1.16 H             | 348                  | 42.7             | 15.5                     |
| 6                                                   | #10480.00   | 44.2 AV                 | 54.0           | -9.8        | 1.16 H             | 348                  | 28.7             | 15.5                     |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |             |                         |                |             |                    |                      |                  |                          |
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | *5240.00    | 108.5 PK                |                |             | 2.89 V             | 170                  | 68.0             | 40.5                     |
| 2                                                   | *5240.00    | 97.3 AV                 |                |             | 2.89 V             | 170                  | 56.8             | 40.5                     |
| 3                                                   | 5350.00     | 55.1 PK                 | 74.0           | -18.9       | 2.84 V             | 177                  | 51.0             | 4.1                      |
| 4                                                   | 5350.00     | 42.3 AV                 | 54.0           | -11.7       | 2.84 V             | 177                  | 38.2             | 4.1                      |
| 5                                                   | #10480.00   | 57.5 PK                 | 74.0           | -16.5       | 3.78 V             | 263                  | 42.0             | 15.5                     |
| 6                                                   | #10480.00   | 44.4 AV                 | 54.0           | -9.6        | 3.78 V             | 263                  | 28.9             | 15.5                     |

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |               |                   |              |
|-----------------|---------------|-------------------|--------------|
| CHANNEL         | TX Channel 52 | DETECTOR FUNCTION | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz  |                   | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|-----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | 5150.00     | 55.3 PK                 | 74.0           | -18.7       | 1.49 H             | 178                  | 51.3             | 4.0                      |
| 2                                                   | 5150.00     | 42.6 AV                 | 54.0           | -11.4       | 1.49 H             | 178                  | 38.6             | 4.0                      |
| 3                                                   | *5260.00    | 109.0 PK                |                |             | 1.44 H             | 170                  | 68.5             | 40.5                     |
| 4                                                   | *5260.00    | 98.1 AV                 |                |             | 1.44 H             | 170                  | 57.6             | 40.5                     |
| 5                                                   | #10520.00   | 57.3 PK                 | 74.0           | -16.7       | 3.06 H             | 152                  | 41.8             | 15.5                     |
| 6                                                   | #10520.00   | 43.7 AV                 | 54.0           | -10.3       | 3.06 H             | 152                  | 28.2             | 15.5                     |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |             |                         |                |             |                    |                      |                  |                          |
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | 5150.00     | 55.5 PK                 | 74.0           | -18.5       | 2.71 V             | 162                  | 51.5             | 4.0                      |
| 2                                                   | 5150.00     | 42.8 AV                 | 54.0           | -11.2       | 2.71 V             | 162                  | 38.8             | 4.0                      |
| 3                                                   | *5260.00    | 108.2 PK                |                |             | 2.81 V             | 176                  | 67.7             | 40.5                     |
| 4                                                   | *5260.00    | 97.9 AV                 |                |             | 2.81 V             | 176                  | 57.4             | 40.5                     |
| 5                                                   | #10520.00   | 56.4 PK                 | 74.0           | -17.6       | 1.68 V             | 120                  | 40.9             | 15.5                     |
| 6                                                   | #10520.00   | 43.3 AV                 | 54.0           | -10.7       | 1.68 V             | 120                  | 27.8             | 15.5                     |

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |               |          |              |
|-----------------|---------------|----------|--------------|
| CHANNEL         | TX Channel 60 | DETECTOR | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz  | FUNCTION | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5300.00       | 107.3 PK                      |                   |                | 1.44 H                   | 170                        | 66.8                   | 40.5                           |
| 2                                                   | *5300.00       | 97.0 AV                       |                   |                | 1.44 H                   | 170                        | 56.5                   | 40.5                           |
| 3                                                   | 10600.00       | 57.1 PK                       | 74.0              | -16.9          | 1.27 H                   | 64                         | 41.3                   | 15.8                           |
| 4                                                   | 10600.00       | 44.0 AV                       | 54.0              | -10.0          | 1.27 H                   | 64                         | 28.2                   | 15.8                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5300.00       | 109.5 PK                      |                   |                | 2.82 V                   | 171                        | 69.0                   | 40.5                           |
| 2                                                   | *5300.00       | 98.7 AV                       |                   |                | 2.82 V                   | 171                        | 58.2                   | 40.5                           |
| 3                                                   | 10600.00       | 57.7 PK                       | 74.0              | -16.3          | 1.42 V                   | 188                        | 41.9                   | 15.8                           |
| 4                                                   | 10600.00       | 44.1 AV                       | 54.0              | -9.9           | 1.42 V                   | 188                        | 28.3                   | 15.8                           |

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |               |                   |              |
|-----------------|---------------|-------------------|--------------|
| CHANNEL         | TX Channel 64 | DETECTOR FUNCTION | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz  |                   | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|-----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | *5320.00    | 107.1 PK                |                |             | 1.41 H             | 171                  | 66.5             | 40.6                     |
| 2                                                   | *5320.00    | 95.8 AV                 |                |             | 1.41 H             | 171                  | 55.2             | 40.6                     |
| 3                                                   | 5350.00     | 62.6 PK                 | 74.0           | -11.4       | 1.41 H             | 170                  | 58.5             | 4.1                      |
| 4                                                   | 5350.00     | 46.0 AV                 | 54.0           | -8.0        | 1.41 H             | 170                  | 41.9             | 4.1                      |
| 5                                                   | 10640.00    | 57.6 PK                 | 74.0           | -16.4       | 2.55 H             | 325                  | 41.8             | 15.8                     |
| 6                                                   | 10640.00    | 43.7 AV                 | 54.0           | -10.3       | 2.55 H             | 325                  | 27.9             | 15.8                     |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |             |                         |                |             |                    |                      |                  |                          |
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | *5320.00    | 109.7 PK                |                |             | 2.79 V             | 172                  | 69.1             | 40.6                     |
| 2                                                   | *5320.00    | 99.0 AV                 |                |             | 2.79 V             | 172                  | 58.4             | 40.6                     |
| 3                                                   | 5350.00     | 65.7 PK                 | 74.0           | -8.3        | 2.75 V             | 173                  | 61.6             | 4.1                      |
| 4                                                   | 5350.00     | 49.3 AV                 | 54.0           | -4.7        | 2.75 V             | 173                  | 45.2             | 4.1                      |
| 5                                                   | 10640.00    | 57.0 PK                 | 74.0           | -17.0       | 3.21 V             | 358                  | 41.2             | 15.8                     |
| 6                                                   | 10640.00    | 43.7 AV                 | 54.0           | -10.3       | 3.21 V             | 358                  | 27.9             | 15.8                     |

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |                |          |              |
|-----------------|----------------|----------|--------------|
| CHANNEL         | TX Channel 100 | DETECTOR | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz   | FUNCTION | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 5460.00        | 57.1 PK                       | 74.0              | -16.9          | 1.33 H                   | 194                        | 52.8                   | 4.3                            |
| 2                                                   | 5460.00        | 43.5 AV                       | 54.0              | -10.5          | 1.33 H                   | 194                        | 39.2                   | 4.3                            |
| 3                                                   | #5470.00       | 61.6 PK                       | 74.0              | -12.4          | 1.38 H                   | 197                        | 57.2                   | 4.4                            |
| 4                                                   | #5470.00       | 46.0 AV                       | 54.0              | -8.0           | 1.38 H                   | 197                        | 41.6                   | 4.4                            |
| 5                                                   | *5500.00       | 107.8 PK                      |                   |                | 1.54 H                   | 197                        | 66.5                   | 41.3                           |
| 6                                                   | *5500.00       | 97.0 AV                       |                   |                | 1.54 H                   | 197                        | 55.7                   | 41.3                           |
| 7                                                   | 11000.00       | 58.2 PK                       | 74.0              | -15.8          | 1.63 H                   | 293                        | 40.7                   | 17.5                           |
| 8                                                   | 11000.00       | 45.3 AV                       | 54.0              | -8.7           | 1.63 H                   | 293                        | 27.8                   | 17.5                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 5460.00        | 59.1 PK                       | 74.0              | -14.9          | 2.30 V                   | 111                        | 54.8                   | 4.3                            |
| 2                                                   | 5460.00        | 43.2 AV                       | 54.0              | -10.8          | 2.30 V                   | 111                        | 38.9                   | 4.3                            |
| 3                                                   | #5470.00       | 62.9 PK                       | 74.0              | -11.1          | 2.34 V                   | 113                        | 58.5                   | 4.4                            |
| 4                                                   | #5470.00       | 46.6 AV                       | 54.0              | -7.4           | 2.34 V                   | 113                        | 42.2                   | 4.4                            |
| 5                                                   | *5500.00       | 108.8 PK                      |                   |                | 2.36 V                   | 114                        | 67.5                   | 41.3                           |
| 6                                                   | *5500.00       | 98.2 AV                       |                   |                | 2.36 V                   | 114                        | 56.9                   | 41.3                           |
| 7                                                   | 11000.00       | 58.7 PK                       | 74.0              | -15.3          | 1.52 V                   | 305                        | 41.2                   | 17.5                           |
| 8                                                   | 11000.00       | 45.0 AV                       | 54.0              | -9.0           | 1.52 V                   | 305                        | 27.5                   | 17.5                           |

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |                |          |              |
|-----------------|----------------|----------|--------------|
| CHANNEL         | TX Channel 116 | DETECTOR | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz   | FUNCTION | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5580.00       | 108.8 PK                      |                   |                | 1.30 H                   | 198                        | 67.4                   | 41.4                           |
| 2                                                   | *5580.00       | 98.3 AV                       |                   |                | 1.30 H                   | 198                        | 56.9                   | 41.4                           |
| 3                                                   | 11160.00       | 57.0 PK                       | 74.0              | -17.0          | 1.18 H                   | 243                        | 41.0                   | 16.0                           |
| 4                                                   | 11160.00       | 43.5 AV                       | 54.0              | -10.5          | 1.18 H                   | 243                        | 27.5                   | 16.0                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5580.00       | 110.9 PK                      |                   |                | 2.31 V                   | 113                        | 69.5                   | 41.4                           |
| 2                                                   | *5580.00       | 100.8 AV                      |                   |                | 2.31 V                   | 113                        | 59.4                   | 41.4                           |
| 3                                                   | 11160.00       | 56.6 PK                       | 74.0              | -17.4          | 1.74 V                   | 169                        | 40.6                   | 16.0                           |
| 4                                                   | 11160.00       | 43.8 AV                       | 54.0              | -10.2          | 1.74 V                   | 169                        | 27.8                   | 16.0                           |

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |                |                   |              |
|-----------------|----------------|-------------------|--------------|
| CHANNEL         | TX Channel 140 | DETECTOR FUNCTION | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz   |                   | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|-----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | *5700.00    | 107.8 PK                |                |             | 1.27 H             | 194                  | 66.3             | 41.5                     |
| 2                                                   | *5700.00    | 97.1 AV                 |                |             | 1.27 H             | 194                  | 55.6             | 41.5                     |
| 3                                                   | #5725.00    | 65.1 PK                 | 74.0           | -8.9        | 1.24 H             | 195                  | 60.2             | 4.9                      |
| 4                                                   | #5725.00    | 48.4 AV                 | 54.0           | -5.6        | 1.24 H             | 195                  | 43.5             | 4.9                      |
| 5                                                   | 11400.00    | 58.2 PK                 | 74.0           | -15.8       | 2.59 H             | 341                  | 42.1             | 16.1                     |
| 6                                                   | 11400.00    | 44.7 AV                 | 54.0           | -9.3        | 2.59 H             | 341                  | 28.6             | 16.1                     |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |             |                         |                |             |                    |                      |                  |                          |
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | *5700.00    | 112.5 PK                |                |             | 2.25 V             | 112                  | 71.0             | 41.5                     |
| 2                                                   | *5700.00    | 101.5 AV                |                |             | 2.25 V             | 112                  | 60.0             | 41.5                     |
| 3                                                   | #5725.00    | 67.4 PK                 | 74.0           | -6.6        | 2.24 V             | 113                  | 62.5             | 4.9                      |
| 4                                                   | #5725.00    | 51.7 AV                 | 54.0           | -2.3        | 2.24 V             | 113                  | 46.8             | 4.9                      |
| 5                                                   | 11400.00    | 57.8 PK                 | 74.0           | -16.2       | 2.78 V             | 164                  | 41.7             | 16.1                     |
| 6                                                   | 11400.00    | 44.9 AV                 | 54.0           | -9.1        | 2.78 V             | 164                  | 28.8             | 16.1                     |

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |                |                   |              |
|-----------------|----------------|-------------------|--------------|
| CHANNEL         | TX Channel 149 | DETECTOR FUNCTION | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz   |                   | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|-----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | #5612.80    | 56.0 PK                 | 68.2           | -12.2       | 1.22 H             | 190                  | 51.3             | 4.7                      |
| 2                                                   | *5745.00    | 108.3 PK                |                |             | 1.22 H             | 190                  | 66.6             | 41.7                     |
| 3                                                   | *5745.00    | 97.9 AV                 |                |             | 1.22 H             | 190                  | 56.2             | 41.7                     |
| 4                                                   | #5962.40    | 57.3 PK                 | 68.2           | -10.9       | 1.22 H             | 190                  | 51.9             | 5.4                      |
| 5                                                   | 11490.00    | 57.8 PK                 | 74.0           | -16.2       | 3.01 H             | 261                  | 41.8             | 16.0                     |
| 6                                                   | 11490.00    | 45.6 AV                 | 54.0           | -8.4        | 3.01 H             | 261                  | 29.6             | 16.0                     |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |             |                         |                |             |                    |                      |                  |                          |
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | #5636.80    | 57.2 PK                 | 68.2           | -11.0       | 1.68 V             | 110                  | 52.5             | 4.7                      |
| 2                                                   | *5745.00    | 109.1 PK                |                |             | 1.68 V             | 110                  | 67.4             | 41.7                     |
| 3                                                   | *5745.00    | 99.0 AV                 |                |             | 1.68 V             | 110                  | 57.3             | 41.7                     |
| 4                                                   | #5988.80    | 57.5 PK                 | 68.2           | -10.7       | 1.68 V             | 110                  | 52.0             | 5.5                      |
| 5                                                   | 11490.00    | 59.2 PK                 | 74.0           | -14.8       | 2.46 V             | 213                  | 43.2             | 16.0                     |
| 6                                                   | 11490.00    | 46.2 AV                 | 54.0           | -7.8        | 2.46 V             | 213                  | 30.2             | 16.0                     |

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |                |          |              |
|-----------------|----------------|----------|--------------|
| CHANNEL         | TX Channel 157 | DETECTOR | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz   | FUNCTION | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | #5612.80       | 57.4 PK                       | 68.2              | -10.8          | 1.22 H                   | 183                        | 52.7                   | 4.7                            |
| 2                                                   | *5785.00       | 107.7 PK                      |                   |                | 1.22 H                   | 183                        | 65.8                   | 41.9                           |
| 3                                                   | *5785.00       | 97.3 AV                       |                   |                | 1.22 H                   | 183                        | 55.4                   | 41.9                           |
| 4                                                   | #5995.20       | 57.5 PK                       | 68.2              | -10.7          | 1.22 H                   | 183                        | 52.0                   | 5.5                            |
| 5                                                   | 11570.00       | 57.5 PK                       | 74.0              | -16.5          | 3.17 H                   | 234                        | 41.9                   | 15.6                           |
| 6                                                   | 11570.00       | 45.1 AV                       | 54.0              | -8.9           | 3.17 H                   | 234                        | 29.5                   | 15.6                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | #5624.80       | 56.0 PK                       | 68.2              | -12.2          | 1.67 V                   | 110                        | 51.3                   | 4.7                            |
| 2                                                   | *5785.00       | 109.2 PK                      |                   |                | 1.67 V                   | 110                        | 67.3                   | 41.9                           |
| 3                                                   | *5785.00       | 98.8 AV                       |                   |                | 1.67 V                   | 110                        | 56.9                   | 41.9                           |
| 4                                                   | #5997.60       | 58.3 PK                       | 68.2              | -9.9           | 1.67 V                   | 110                        | 52.8                   | 5.5                            |
| 5                                                   | 11570.00       | 57.7 PK                       | 74.0              | -16.3          | 3.04 V                   | 175                        | 42.1                   | 15.6                           |
| 6                                                   | 11570.00       | 45.9 AV                       | 54.0              | -8.1           | 3.04 V                   | 175                        | 30.3                   | 15.6                           |

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |                |          |              |
|-----------------|----------------|----------|--------------|
| CHANNEL         | TX Channel 165 | DETECTOR | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz   | FUNCTION | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | #5640.00       | 56.4 PK                       | 68.2              | -11.8          | 1.20 H                   | 183                        | 51.7                   | 4.7                            |
| 2                                                   | *5825.00       | 108.6 PK                      |                   |                | 1.20 H                   | 183                        | 66.5                   | 42.1                           |
| 3                                                   | *5825.00       | 98.3 AV                       |                   |                | 1.20 H                   | 183                        | 56.2                   | 42.1                           |
| 4                                                   | #5957.60       | 57.4 PK                       | 68.2              | -10.8          | 1.20 H                   | 183                        | 52.0                   | 5.4                            |
| 5                                                   | 11650.00       | 57.0 PK                       | 74.0              | -17.0          | 3.17 H                   | 209                        | 41.7                   | 15.3                           |
| 6                                                   | 11650.00       | 45.0 AV                       | 54.0              | -9.0           | 3.17 H                   | 209                        | 29.7                   | 15.3                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | #5608.00       | 56.4 PK                       | 68.2              | -11.8          | 1.71 V                   | 112                        | 51.7                   | 4.7                            |
| 2                                                   | *5825.00       | 110.0 PK                      |                   |                | 1.71 V                   | 112                        | 67.9                   | 42.1                           |
| 3                                                   | *5825.00       | 99.9 AV                       |                   |                | 1.71 V                   | 112                        | 57.8                   | 42.1                           |
| 4                                                   | #5928.00       | 58.0 PK                       | 68.2              | -10.2          | 1.71 V                   | 112                        | 52.5                   | 5.5                            |
| 5                                                   | 11650.00       | 58.1 PK                       | 74.0              | -15.9          | 2.07 V                   | 193                        | 42.8                   | 15.3                           |
| 6                                                   | 11650.00       | 45.7 AV                       | 54.0              | -8.3           | 2.07 V                   | 193                        | 30.4                   | 15.3                           |

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

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|                 |               |          |              |
|-----------------|---------------|----------|--------------|
| CHANNEL         | TX Channel 38 | DETECTOR | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz  | FUNCTION | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 5150.00        | 72.8 PK                       | 74.0              | -1.2           | 1.55 H                   | 191                        | 68.8                   | 4.0                            |
| 2                                                   | 5150.00        | 49.8 AV                       | 54.0              | -4.2           | 1.55 H                   | 191                        | 45.8                   | 4.0                            |
| 3                                                   | *5190.00       | 104.8 PK                      |                   |                | 1.57 H                   | 191                        | 64.1                   | 40.7                           |
| 4                                                   | *5190.00       | 93.6 AV                       |                   |                | 1.57 H                   | 191                        | 52.9                   | 40.7                           |
| 5                                                   | #10380.00      | 58.1 PK                       | 74.0              | -15.9          | 2.84 H                   | 198                        | 42.7                   | 15.4                           |
| 6                                                   | #10380.00      | 44.9 AV                       | 54.0              | -9.1           | 2.84 H                   | 198                        | 29.5                   | 15.4                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 5150.00        | 67.0 PK                       | 74.0              | -7.0           | 1.89 V                   | 293                        | 63.0                   | 4.0                            |
| 2                                                   | 5150.00        | 46.3 AV                       | 54.0              | -7.7           | 1.89 V                   | 293                        | 42.3                   | 4.0                            |
| 3                                                   | *5190.00       | 100.8 PK                      |                   |                | 1.72 V                   | 294                        | 60.1                   | 40.7                           |
| 4                                                   | *5190.00       | 90.0 AV                       |                   |                | 1.72 V                   | 294                        | 49.3                   | 40.7                           |
| 5                                                   | #10380.00      | 58.7 PK                       | 74.0              | -15.3          | 2.26 V                   | 172                        | 43.3                   | 15.4                           |
| 6                                                   | #10380.00      | 44.9 AV                       | 54.0              | -9.1           | 2.26 V                   | 172                        | 29.5                   | 15.4                           |

## 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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |               |                   |              |
|-----------------|---------------|-------------------|--------------|
| CHANNEL         | TX Channel 46 | DETECTOR FUNCTION | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz  |                   | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|-----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | *5230.00    | 106.4 PK                |                |             | 1.56 H             | 192                  | 65.9             | 40.5                     |
| 2                                                   | *5230.00    | 95.1 AV                 |                |             | 1.56 H             | 192                  | 54.6             | 40.5                     |
| 3                                                   | 5350.00     | 57.0 PK                 | 74.0           | -17.0       | 1.52 H             | 194                  | 52.9             | 4.1                      |
| 4                                                   | 5350.00     | 43.9 AV                 | 54.0           | -10.1       | 1.52 H             | 194                  | 39.8             | 4.1                      |
| 5                                                   | #10460.00   | 58.3 PK                 | 74.0           | -15.7       | 1.64 H             | 328                  | 42.9             | 15.4                     |
| 6                                                   | #10460.00   | 44.3 AV                 | 54.0           | -9.7        | 1.64 H             | 328                  | 28.9             | 15.4                     |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |             |                         |                |             |                    |                      |                  |                          |
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | *5230.00    | 103.3 PK                |                |             | 1.78 V             | 293                  | 62.8             | 40.5                     |
| 2                                                   | *5230.00    | 92.1 AV                 |                |             | 1.78 V             | 293                  | 51.6             | 40.5                     |
| 3                                                   | 5350.00     | 57.3 PK                 | 74.0           | -16.7       | 1.87 V             | 284                  | 53.2             | 4.1                      |
| 4                                                   | 5350.00     | 43.6 AV                 | 54.0           | -10.4       | 1.87 V             | 284                  | 39.5             | 4.1                      |
| 5                                                   | #10460.00   | 57.8 PK                 | 74.0           | -16.2       | 1.63 V             | 179                  | 42.4             | 15.4                     |
| 6                                                   | #10460.00   | 44.2 AV                 | 54.0           | -9.8        | 1.63 V             | 179                  | 28.8             | 15.4                     |

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |               |          |              |
|-----------------|---------------|----------|--------------|
| CHANNEL         | TX Channel 54 | DETECTOR | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz  | FUNCTION | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 5150.00        | 57.3 PK                       | 74.0              | -16.7          | 1.62 H                   | 198                        | 53.3                   | 4.0                            |
| 2                                                   | 5150.00        | 43.5 AV                       | 54.0              | -10.5          | 1.62 H                   | 198                        | 39.5                   | 4.0                            |
| 3                                                   | *5270.00       | 106.1 PK                      |                   |                | 1.66 H                   | 202                        | 65.6                   | 40.5                           |
| 4                                                   | *5270.00       | 95.1 AV                       |                   |                | 1.66 H                   | 202                        | 54.6                   | 40.5                           |
| 5                                                   | #10540.00      | 58.5 PK                       | 74.0              | -15.5          | 2.73 H                   | 116                        | 42.9                   | 15.6                           |
| 6                                                   | #10540.00      | 45.0 AV                       | 54.0              | -9.0           | 2.73 H                   | 116                        | 29.4                   | 15.6                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 5150.00        | 56.2 PK                       | 74.0              | -17.8          | 1.67 V                   | 300                        | 52.2                   | 4.0                            |
| 2                                                   | 5150.00        | 43.4 AV                       | 54.0              | -10.6          | 1.67 V                   | 300                        | 39.4                   | 4.0                            |
| 3                                                   | *5270.00       | 103.0 PK                      |                   |                | 1.69 V                   | 292                        | 62.5                   | 40.5                           |
| 4                                                   | *5270.00       | 92.4 AV                       |                   |                | 1.69 V                   | 292                        | 51.9                   | 40.5                           |
| 5                                                   | #10540.00      | 57.9 PK                       | 74.0              | -16.1          | 1.89 V                   | 315                        | 42.3                   | 15.6                           |
| 6                                                   | #10540.00      | 45.2 AV                       | 54.0              | -8.8           | 1.89 V                   | 315                        | 29.6                   | 15.6                           |

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |               |          |              |
|-----------------|---------------|----------|--------------|
| CHANNEL         | TX Channel 62 | DETECTOR | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz  | FUNCTION | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5310.00       | 104.8 PK                      |                   |                | 1.45 H                   | 203                        | 64.3                   | 40.5                           |
| 2                                                   | *5310.00       | 93.6 AV                       |                   |                | 1.45 H                   | 203                        | 53.1                   | 40.5                           |
| 3                                                   | 5350.00        | 72.5 PK                       | 74.0              | -1.5           | 1.45 H                   | 204                        | 68.4                   | 4.1                            |
| 4                                                   | 5350.00        | 49.1 AV                       | 54.0              | -4.9           | 1.45 H                   | 204                        | 45.0                   | 4.1                            |
| 5                                                   | 10620.00       | 58.6 PK                       | 74.0              | -15.4          | 2.46 H                   | 165                        | 42.8                   | 15.8                           |
| 6                                                   | 10620.00       | 45.1 AV                       | 54.0              | -8.9           | 2.46 H                   | 165                        | 29.3                   | 15.8                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5310.00       | 99.5 PK                       |                   |                | 1.73 V                   | 293                        | 59.0                   | 40.5                           |
| 2                                                   | *5310.00       | 89.1 AV                       |                   |                | 1.73 V                   | 293                        | 48.6                   | 40.5                           |
| 3                                                   | 5350.00        | 66.1 PK                       | 74.0              | -7.9           | 1.62 V                   | 312                        | 62.0                   | 4.1                            |
| 4                                                   | 5350.00        | 46.0 AV                       | 54.0              | -8.0           | 1.62 V                   | 312                        | 41.9                   | 4.1                            |
| 5                                                   | 10620.00       | 58.0 PK                       | 74.0              | -16.0          | 2.12 V                   | 71                         | 42.2                   | 15.8                           |
| 6                                                   | 10620.00       | 45.0 AV                       | 54.0              | -9.0           | 2.12 V                   | 71                         | 29.2                   | 15.8                           |

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |                |          |              |
|-----------------|----------------|----------|--------------|
| CHANNEL         | TX Channel 102 | DETECTOR | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz   | FUNCTION | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 5460.00        | 66.8 PK                       | 74.0              | -7.2           | 1.81 H                   | 233                        | 62.5                   | 4.3                            |
| 2                                                   | 5460.00        | 48.9 AV                       | 54.0              | -5.1           | 1.81 H                   | 233                        | 44.6                   | 4.3                            |
| 3                                                   | #5470.00       | 72.8 PK                       | 74.0              | -1.2           | 1.79 H                   | 231                        | 68.4                   | 4.4                            |
| 4                                                   | #5470.00       | 51.8 AV                       | 54.0              | -2.2           | 1.79 H                   | 231                        | 47.4                   | 4.4                            |
| 5                                                   | *5510.00       | 105.6 PK                      |                   |                | 1.82 H                   | 233                        | 64.3                   | 41.3                           |
| 6                                                   | *5510.00       | 94.2 AV                       |                   |                | 1.82 H                   | 233                        | 52.9                   | 41.3                           |
| 7                                                   | 11020.00       | 60.2 PK                       | 74.0              | -13.8          | 1.40 H                   | 128                        | 43.0                   | 17.2                           |
| 8                                                   | 11020.00       | 46.1 AV                       | 54.0              | -7.9           | 1.40 H                   | 128                        | 28.9                   | 17.2                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 5460.00        | 60.6 PK                       | 74.0              | -13.4          | 1.91 V                   | 196                        | 56.3                   | 4.3                            |
| 2                                                   | 5460.00        | 46.1 AV                       | 54.0              | -7.9           | 1.91 V                   | 196                        | 41.8                   | 4.3                            |
| 3                                                   | #5470.00       | 71.8 PK                       | 74.0              | -2.2           | 1.87 V                   | 202                        | 67.4                   | 4.4                            |
| 4                                                   | #5470.00       | 50.0 AV                       | 54.0              | -4.0           | 1.87 V                   | 202                        | 45.6                   | 4.4                            |
| 5                                                   | *5510.00       | 101.6 PK                      |                   |                | 1.88 V                   | 202                        | 60.3                   | 41.3                           |
| 6                                                   | *5510.00       | 90.7 AV                       |                   |                | 1.88 V                   | 202                        | 49.4                   | 41.3                           |
| 7                                                   | 11020.00       | 59.1 PK                       | 74.0              | -14.9          | 2.21 V                   | 168                        | 41.9                   | 17.2                           |
| 8                                                   | 11020.00       | 46.0 AV                       | 54.0              | -8.0           | 2.21 V                   | 168                        | 28.8                   | 17.2                           |

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |                |          |              |
|-----------------|----------------|----------|--------------|
| CHANNEL         | TX Channel 110 | DETECTOR | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz   | FUNCTION | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5550.00       | 107.6 PK                      |                   |                | 1.46 H                   | 206                        | 66.2                   | 41.4                           |
| 2                                                   | *5550.00       | 95.9 AV                       |                   |                | 1.46 H                   | 206                        | 54.5                   | 41.4                           |
| 3                                                   | 11100.00       | 57.8 PK                       | 74.0              | -16.2          | 2.71 H                   | 264                        | 41.6                   | 16.2                           |
| 4                                                   | 11100.00       | 45.0 AV                       | 54.0              | -9.0           | 2.71 H                   | 264                        | 28.8                   | 16.2                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5550.00       | 104.9 PK                      |                   |                | 2.01 V                   | 141                        | 63.5                   | 41.4                           |
| 2                                                   | *5550.00       | 94.0 AV                       |                   |                | 2.01 V                   | 141                        | 52.6                   | 41.4                           |
| 3                                                   | 11100.00       | 58.2 PK                       | 74.0              | -15.8          | 2.94 V                   | 107                        | 42.0                   | 16.2                           |
| 4                                                   | 11100.00       | 45.0 AV                       | 54.0              | -9.0           | 2.94 V                   | 107                        | 28.8                   | 16.2                           |

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |                |          |              |
|-----------------|----------------|----------|--------------|
| CHANNEL         | TX Channel 134 | DETECTOR | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz   | FUNCTION | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5670.00       | 107.3 PK                      |                   |                | 1.30 H                   | 210                        | 65.8                   | 41.5                           |
| 2                                                   | *5670.00       | 95.3 AV                       |                   |                | 1.30 H                   | 210                        | 53.8                   | 41.5                           |
| 3                                                   | #5725.00       | 62.1 PK                       | 74.0              | -11.9          | 1.26 H                   | 208                        | 57.2                   | 4.9                            |
| 4                                                   | #5725.00       | 46.1 AV                       | 54.0              | -7.9           | 1.26 H                   | 208                        | 41.2                   | 4.9                            |
| 5                                                   | 11340.00       | 58.4 PK                       | 74.0              | -15.6          | 2.04 H                   | 168                        | 42.0                   | 16.4                           |
| 6                                                   | 11340.00       | 45.3 AV                       | 54.0              | -8.7           | 2.04 H                   | 168                        | 28.9                   | 16.4                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5670.00       | 106.3 PK                      |                   |                | 1.97 V                   | 131                        | 64.8                   | 41.5                           |
| 2                                                   | *5670.00       | 95.5 AV                       |                   |                | 1.97 V                   | 131                        | 54.0                   | 41.5                           |
| 3                                                   | #5725.00       | 61.7 PK                       | 74.0              | -12.3          | 1.82 V                   | 131                        | 56.8                   | 4.9                            |
| 4                                                   | #5725.00       | 46.5 AV                       | 54.0              | -7.5           | 1.82 V                   | 131                        | 41.6                   | 4.9                            |
| 5                                                   | 11340.00       | 57.2 PK                       | 74.0              | -16.8          | 1.27 V                   | 133                        | 40.8                   | 16.4                           |
| 6                                                   | 11340.00       | 44.2 AV                       | 54.0              | -9.8           | 1.27 V                   | 133                        | 27.8                   | 16.4                           |

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |                |          |              |
|-----------------|----------------|----------|--------------|
| CHANNEL         | TX Channel 151 | DETECTOR | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz   | FUNCTION | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | #5627.20       | 56.7 PK                       | 68.2              | -11.5          | 1.19 H                   | 190                        | 52.0                   | 4.7                            |
| 2                                                   | *5755.00       | 104.7 PK                      |                   |                | 1.19 H                   | 190                        | 62.9                   | 41.8                           |
| 3                                                   | *5755.00       | 94.1 AV                       |                   |                | 1.19 H                   | 190                        | 52.3                   | 41.8                           |
| 4                                                   | #5980.80       | 57.5 PK                       | 68.2              | -10.7          | 1.19 H                   | 190                        | 52.0                   | 5.5                            |
| 5                                                   | 11510.00       | 58.2 PK                       | 74.0              | -15.8          | 2.06 H                   | 134                        | 42.3                   | 15.9                           |
| 6                                                   | 11510.00       | 45.5 AV                       | 54.0              | -8.5           | 2.06 H                   | 134                        | 29.6                   | 15.9                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | #5615.20       | 56.7 PK                       | 68.2              | -11.5          | 1.73 V                   | 114                        | 52.0                   | 4.7                            |
| 2                                                   | *5755.00       | 105.5 PK                      |                   |                | 1.73 V                   | 114                        | 63.7                   | 41.8                           |
| 3                                                   | *5755.00       | 95.1 AV                       |                   |                | 1.73 V                   | 114                        | 53.3                   | 41.8                           |
| 4                                                   | #5936.00       | 57.4 PK                       | 68.2              | -10.8          | 1.73 V                   | 114                        | 52.0                   | 5.4                            |
| 5                                                   | 11510.00       | 58.7 PK                       | 74.0              | -15.3          | 2.06 V                   | 341                        | 42.8                   | 15.9                           |
| 6                                                   | 11510.00       | 46.0 AV                       | 54.0              | -8.0           | 2.06 V                   | 341                        | 30.1                   | 15.9                           |

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |                |                   |              |
|-----------------|----------------|-------------------|--------------|
| CHANNEL         | TX Channel 159 | DETECTOR FUNCTION | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz   |                   | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|-----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | #5627.20    | 56.3 PK                 | 68.2           | -11.9       | 1.17 H             | 185                  | 51.6             | 4.7                      |
| 2                                                   | *5795.00    | 103.6 PK                |                |             | 1.17 H             | 185                  | 61.6             | 42.0                     |
| 3                                                   | *5795.00    | 93.1 AV                 |                |             | 1.17 H             | 185                  | 51.1             | 42.0                     |
| 4                                                   | #5932.80    | 56.7 PK                 | 68.2           | -11.5       | 1.17 H             | 185                  | 51.2             | 5.5                      |
| 5                                                   | 11590.00    | 57.3 PK                 | 74.0           | -16.7       | 1.95 H             | 127                  | 41.8             | 15.5                     |
| 6                                                   | 11590.00    | 45.3 AV                 | 54.0           | -8.7        | 1.95 H             | 127                  | 29.8             | 15.5                     |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |             |                         |                |             |                    |                      |                  |                          |
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | #5642.40    | 56.1 PK                 | 68.2           | -12.1       | 1.82 V             | 115                  | 51.4             | 4.7                      |
| 2                                                   | *5795.00    | 105.4 PK                |                |             | 1.82 V             | 115                  | 63.4             | 42.0                     |
| 3                                                   | *5795.00    | 94.6 AV                 |                |             | 1.82 V             | 115                  | 52.6             | 42.0                     |
| 4                                                   | #5996.80    | 57.4 PK                 | 68.2           | -10.8       | 1.82 V             | 115                  | 51.9             | 5.5                      |
| 5                                                   | 11590.00    | 58.2 PK                 | 74.0           | -15.8       | 1.18 V             | 245                  | 42.7             | 15.5                     |
| 6                                                   | 11590.00    | 45.6 AV                 | 54.0           | -8.4        | 1.18 V             | 245                  | 30.1             | 15.5                     |

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

## 802.11ac (VHT80)

|                 |               |                      |              |
|-----------------|---------------|----------------------|--------------|
| CHANNEL         | TX Channel 42 | DETECTOR<br>FUNCTION | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz  |                      | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 5150.00        | 59.3 PK                       | 74.0              | -14.7          | 1.59 H                   | 184                        | 55.3                   | 4.0                            |
| 2                                                   | 5150.00        | 43.9 AV                       | 54.0              | -10.1          | 1.59 H                   | 184                        | 39.9                   | 4.0                            |
| 3                                                   | *5210.00       | 96.6 PK                       |                   |                | 1.56 H                   | 184                        | 56.0                   | 40.6                           |
| 4                                                   | *5210.00       | 81.5 AV                       |                   |                | 1.56 H                   | 184                        | 40.9                   | 40.6                           |
| 5                                                   | 5350.00        | 55.4 PK                       | 74.0              | -18.6          | 1.55 H                   | 178                        | 51.3                   | 4.1                            |
| 6                                                   | 5350.00        | 42.4 AV                       | 54.0              | -11.6          | 1.55 H                   | 178                        | 38.3                   | 4.1                            |
| 7                                                   | #10420.00      | 58.4 PK                       | 74.0              | -15.6          | 1.65 H                   | 322                        | 43.1                   | 15.3                           |
| 8                                                   | #10420.00      | 44.6 AV                       | 54.0              | -9.4           | 1.65 H                   | 322                        | 29.3                   | 15.3                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 5150.00        | 55.5 PK                       | 74.0              | -18.5          | 1.51 V                   | 243                        | 51.5                   | 4.0                            |
| 2                                                   | 5150.00        | 42.8 AV                       | 54.0              | -11.2          | 1.51 V                   | 243                        | 38.8                   | 4.0                            |
| 3                                                   | *5210.00       | 92.4 PK                       |                   |                | 1.56 V                   | 245                        | 51.8                   | 40.6                           |
| 4                                                   | *5210.00       | 78.2 AV                       |                   |                | 1.56 V                   | 245                        | 37.6                   | 40.6                           |
| 5                                                   | 5350.00        | 55.2 PK                       | 74.0              | -18.8          | 1.48 V                   | 236                        | 51.1                   | 4.1                            |
| 6                                                   | 5350.00        | 42.5 AV                       | 54.0              | -11.5          | 1.48 V                   | 236                        | 38.4                   | 4.1                            |
| 7                                                   | #10420.00      | 57.6 PK                       | 74.0              | -16.4          | 2.84 V                   | 163                        | 42.3                   | 15.3                           |
| 8                                                   | #10420.00      | 44.7 AV                       | 54.0              | -9.3           | 2.84 V                   | 163                        | 29.4                   | 15.3                           |

## 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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |               |                      |              |
|-----------------|---------------|----------------------|--------------|
| CHANNEL         | TX Channel 58 | DETECTOR<br>FUNCTION | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz  |                      | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 5150.00        | 56.1 PK                       | 74.0              | -17.9          | 1.44 H                   | 168                        | 52.1                   | 4.0                            |
| 2                                                   | 5150.00        | 42.8 AV                       | 54.0              | -11.2          | 1.44 H                   | 168                        | 38.8                   | 4.0                            |
| 3                                                   | *5290.00       | 96.7 PK                       |                   |                | 1.40 H                   | 174                        | 56.2                   | 40.5                           |
| 4                                                   | *5290.00       | 80.3 AV                       |                   |                | 1.40 H                   | 174                        | 39.8                   | 40.5                           |
| 5                                                   | 5350.00        | 56.1 PK                       | 74.0              | -17.9          | 1.45 H                   | 177                        | 52.0                   | 4.1                            |
| 6                                                   | 5350.00        | 42.7 AV                       | 54.0              | -11.3          | 1.45 H                   | 177                        | 38.6                   | 4.1                            |
| 7                                                   | #10580.00      | 56.6 PK                       | 74.0              | -17.4          | 2.41 H                   | 196                        | 40.9                   | 15.7                           |
| 8                                                   | #10580.00      | 43.7 AV                       | 54.0              | -10.3          | 2.41 H                   | 196                        | 28.0                   | 15.7                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 5150.00        | 55.8 PK                       | 74.0              | -18.2          | 2.61 V                   | 165                        | 51.8                   | 4.0                            |
| 2                                                   | 5150.00        | 42.6 AV                       | 54.0              | -11.4          | 2.61 V                   | 165                        | 38.6                   | 4.0                            |
| 3                                                   | *5290.00       | 98.5 PK                       |                   |                | 2.82 V                   | 172                        | 58.0                   | 40.5                           |
| 4                                                   | *5290.00       | 81.8 AV                       |                   |                | 2.82 V                   | 172                        | 41.3                   | 40.5                           |
| 5                                                   | 5350.00        | 59.3 PK                       | 74.0              | -14.7          | 2.65 V                   | 172                        | 55.2                   | 4.1                            |
| 6                                                   | 5350.00        | 43.9 AV                       | 54.0              | -10.1          | 2.65 V                   | 172                        | 39.8                   | 4.1                            |
| 7                                                   | #10580.00      | 57.0 PK                       | 74.0              | -17.0          | 1.74 V                   | 120                        | 41.3                   | 15.7                           |
| 8                                                   | #10580.00      | 43.6 AV                       | 54.0              | -10.4          | 1.74 V                   | 120                        | 27.9                   | 15.7                           |

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |                |                      |              |
|-----------------|----------------|----------------------|--------------|
| CHANNEL         | TX Channel 106 | DETECTOR<br>FUNCTION | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz   |                      | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 5460.00        | 59.5 PK                       | 74.0              | -14.5          | 1.27 H                   | 205                        | 55.2                   | 4.3                            |
| 2                                                   | 5460.00        | 45.3 AV                       | 54.0              | -8.7           | 1.27 H                   | 205                        | 41.0                   | 4.3                            |
| 3                                                   | #5470.00       | 59.7 PK                       | 74.0              | -14.3          | 1.28 H                   | 200                        | 55.3                   | 4.4                            |
| 4                                                   | #5470.00       | 45.6 AV                       | 54.0              | -8.4           | 1.28 H                   | 200                        | 41.2                   | 4.4                            |
| 5                                                   | *5530.00       | 96.9 PK                       |                   |                | 1.25 H                   | 201                        | 55.6                   | 41.3                           |
| 6                                                   | *5530.00       | 82.3 AV                       |                   |                | 1.25 H                   | 201                        | 41.0                   | 41.3                           |
| 7                                                   | #5725.00       | 56.1 PK                       | 74.0              | -17.9          | 1.20 H                   | 204                        | 51.2                   | 4.9                            |
| 8                                                   | #5725.00       | 43.8 AV                       | 54.0              | -10.2          | 1.20 H                   | 204                        | 38.9                   | 4.9                            |
| 9                                                   | 11060.00       | 58.3 PK                       | 74.0              | -15.7          | 1.99 H                   | 267                        | 41.6                   | 16.7                           |
| 10                                                  | 11060.00       | 44.8 AV                       | 54.0              | -9.2           | 1.99 H                   | 267                        | 28.1                   | 16.7                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 5460.00        | 57.0 PK                       | 74.0              | -17.0          | 1.44 V                   | 211                        | 52.7                   | 4.3                            |
| 2                                                   | 5460.00        | 43.6 AV                       | 54.0              | -10.4          | 1.44 V                   | 211                        | 39.3                   | 4.3                            |
| 3                                                   | #5470.00       | 57.3 PK                       | 74.0              | -16.7          | 1.45 V                   | 210                        | 52.9                   | 4.4                            |
| 4                                                   | #5470.00       | 44.3 AV                       | 54.0              | -9.7           | 1.45 V                   | 210                        | 39.9                   | 4.4                            |
| 5                                                   | *5530.00       | 93.8 PK                       |                   |                | 1.42 V                   | 214                        | 52.5                   | 41.3                           |
| 6                                                   | *5530.00       | 79.1 AV                       |                   |                | 1.42 V                   | 214                        | 37.8                   | 41.3                           |
| 7                                                   | #5725.00       | 56.2 PK                       | 74.0              | -17.8          | 1.47 V                   | 215                        | 51.3                   | 4.9                            |
| 8                                                   | #5725.00       | 43.5 AV                       | 54.0              | -10.5          | 1.47 V                   | 215                        | 38.6                   | 4.9                            |
| 9                                                   | 11060.00       | 57.6 PK                       | 74.0              | -16.4          | 2.46 V                   | 118                        | 40.9                   | 16.7                           |
| 10                                                  | 11060.00       | 44.5 AV                       | 54.0              | -9.5           | 2.46 V                   | 118                        | 27.8                   | 16.7                           |

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |                |                   |              |
|-----------------|----------------|-------------------|--------------|
| CHANNEL         | TX Channel 155 | DETECTOR FUNCTION | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz   |                   | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|-----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | #5632.00    | 56.2 PK                 | 68.2           | -12.0       | 1.17 H             | 188                  | 51.5             | 4.7                      |
| 2                                                   | *5775.00    | 97.0 PK                 |                |             | 1.17 H             | 188                  | 55.1             | 41.9                     |
| 3                                                   | *5775.00    | 82.5 AV                 |                |             | 1.17 H             | 188                  | 40.6             | 41.9                     |
| 4                                                   | #5990.40    | 56.9 PK                 | 68.2           | -11.3       | 1.17 H             | 188                  | 51.4             | 5.5                      |
| 5                                                   | 11550.00    | 57.9 PK                 | 74.0           | -16.1       | 1.64 H             | 208                  | 42.1             | 15.8                     |
| 6                                                   | 11550.00    | 45.5 AV                 | 54.0           | -8.5        | 1.64 H             | 208                  | 29.7             | 15.8                     |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |             |                         |                |             |                    |                      |                  |                          |
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | #5612.80    | 57.1 PK                 | 68.2           | -11.1       | 1.67 V             | 114                  | 52.4             | 4.7                      |
| 2                                                   | *5775.00    | 97.3 PK                 |                |             | 1.67 V             | 114                  | 55.4             | 41.9                     |
| 3                                                   | *5775.00    | 83.2 AV                 |                |             | 1.67 V             | 114                  | 41.3             | 41.9                     |
| 4                                                   | #5997.60    | 57.8 PK                 | 68.2           | -10.4       | 1.67 V             | 114                  | 52.3             | 5.5                      |
| 5                                                   | 11550.00    | 59.0 PK                 | 74.0           | -15.0       | 2.76 V             | 141                  | 43.2             | 15.8                     |
| 6                                                   | 11550.00    | 46.2 AV                 | 54.0           | -7.8        | 2.76 V             | 141                  | 30.4             | 15.8                     |

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

## Test Mode B

802.11a

|                 |               |                   |              |
|-----------------|---------------|-------------------|--------------|
| CHANNEL         | TX Channel 36 | DETECTOR FUNCTION | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz  |                   | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|-----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | 5150.00     | 56.8 PK                 | 74.0           | -17.2       | 3.47 H             | 356                  | 52.8             | 4.0                      |
| 2                                                   | 5150.00     | 44.4 AV                 | 54.0           | -9.6        | 3.47 H             | 356                  | 40.4             | 4.0                      |
| 3                                                   | *5180.00    | 108.2 PK                |                |             | 3.61 H             | 13                   | 67.5             | 40.7                     |
| 4                                                   | *5180.00    | 97.8 AV                 |                |             | 3.61 H             | 13                   | 57.1             | 40.7                     |
| 5                                                   | #10360.00   | 58.7 PK                 | 74.0           | -15.3       | 2.94 H             | 176                  | 43.3             | 15.4                     |
| 6                                                   | #10360.00   | 45.7 AV                 | 54.0           | -8.3        | 2.94 H             | 176                  | 30.3             | 15.4                     |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |             |                         |                |             |                    |                      |                  |                          |
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | 5150.00     | 55.5 PK                 | 74.0           | -18.5       | 3.75 V             | 129                  | 51.5             | 4.0                      |
| 2                                                   | 5150.00     | 42.7 AV                 | 54.0           | -11.3       | 3.75 V             | 129                  | 38.7             | 4.0                      |
| 3                                                   | *5180.00    | 107.2 PK                |                |             | 3.63 V             | 121                  | 66.5             | 40.7                     |
| 4                                                   | *5180.00    | 96.9 AV                 |                |             | 3.63 V             | 121                  | 56.2             | 40.7                     |
| 5                                                   | #10360.00   | 58.1 PK                 | 74.0           | -15.9       | 2.04 V             | 163                  | 42.7             | 15.4                     |
| 6                                                   | #10360.00   | 45.1 AV                 | 54.0           | -8.9        | 2.04 V             | 163                  | 29.7             | 15.4                     |

### 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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |               |          |              |
|-----------------|---------------|----------|--------------|
| CHANNEL         | TX Channel 40 | DETECTOR | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz  | FUNCTION | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5200.00       | 109.2 PK                      |                   |                | 3.54 H                   | 11                         | 68.5                   | 40.7                           |
| 2                                                   | *5200.00       | 98.8 AV                       |                   |                | 3.54 H                   | 11                         | 58.1                   | 40.7                           |
| 3                                                   | #10400.00      | 58.7 PK                       | 74.0              | -15.3          | 2.17 H                   | 106                        | 43.3                   | 15.4                           |
| 4                                                   | #10400.00      | 45.9 AV                       | 54.0              | -8.1           | 2.17 H                   | 106                        | 30.5                   | 15.4                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5200.00       | 108.3 PK                      |                   |                | 3.64 V                   | 122                        | 67.6                   | 40.7                           |
| 2                                                   | *5200.00       | 98.1 AV                       |                   |                | 3.64 V                   | 122                        | 57.4                   | 40.7                           |
| 3                                                   | #10400.00      | 57.3 PK                       | 74.0              | -16.7          | 1.08 V                   | 319                        | 41.9                   | 15.4                           |
| 4                                                   | #10400.00      | 45.1 AV                       | 54.0              | -8.9           | 1.08 V                   | 319                        | 29.7                   | 15.4                           |

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |               |          |              |
|-----------------|---------------|----------|--------------|
| CHANNEL         | TX Channel 48 | DETECTOR | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz  | FUNCTION | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5240.00       | 109.2 PK                      |                   |                | 3.50 H                   | 17                         | 68.7                   | 40.5                           |
| 2                                                   | *5240.00       | 98.8 AV                       |                   |                | 3.50 H                   | 17                         | 58.3                   | 40.5                           |
| 3                                                   | 5350.00        | 54.9 PK                       | 74.0              | -19.1          | 3.49 H                   | 12                         | 50.8                   | 4.1                            |
| 4                                                   | 5350.00        | 42.7 AV                       | 54.0              | -11.3          | 3.49 H                   | 12                         | 38.6                   | 4.1                            |
| 5                                                   | #10480.00      | 58.7 PK                       | 74.0              | -15.3          | 2.46 H                   | 307                        | 43.2                   | 15.5                           |
| 6                                                   | #10480.00      | 45.9 AV                       | 54.0              | -8.1           | 2.46 H                   | 307                        | 30.4                   | 15.5                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5240.00       | 108.3 PK                      |                   |                | 3.68 V                   | 124                        | 67.8                   | 40.5                           |
| 2                                                   | *5240.00       | 98.0 AV                       |                   |                | 3.68 V                   | 124                        | 57.5                   | 40.5                           |
| 3                                                   | 5350.00        | 54.6 PK                       | 74.0              | -19.4          | 3.76 V                   | 118                        | 50.5                   | 4.1                            |
| 4                                                   | 5350.00        | 42.3 AV                       | 54.0              | -11.7          | 3.76 V                   | 118                        | 38.2                   | 4.1                            |
| 5                                                   | #10480.00      | 57.6 PK                       | 74.0              | -16.4          | 1.76 V                   | 223                        | 42.1                   | 15.5                           |
| 6                                                   | #10480.00      | 45.1 AV                       | 54.0              | -8.9           | 1.76 V                   | 223                        | 29.6                   | 15.5                           |

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |               |          |              |
|-----------------|---------------|----------|--------------|
| CHANNEL         | TX Channel 52 | DETECTOR | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz  | FUNCTION | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 5150.00        | 55.5 PK                       | 74.0              | -18.5          | 1.47 H                   | 165                        | 51.5                   | 4.0                            |
| 2                                                   | 5150.00        | 42.7 AV                       | 54.0              | -11.3          | 1.47 H                   | 165                        | 38.7                   | 4.0                            |
| 3                                                   | *5260.00       | 108.3 PK                      |                   |                | 1.44 H                   | 172                        | 67.8                   | 40.5                           |
| 4                                                   | *5260.00       | 98.1 AV                       |                   |                | 1.44 H                   | 172                        | 57.6                   | 40.5                           |
| 5                                                   | #10520.00      | 56.0 PK                       | 74.0              | -18.0          | 2.65 H                   | 161                        | 40.5                   | 15.5                           |
| 6                                                   | #10520.00      | 43.5 AV                       | 54.0              | -10.5          | 2.65 H                   | 161                        | 28.0                   | 15.5                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 5150.00        | 55.4 PK                       | 74.0              | -18.6          | 2.22 V                   | 178                        | 51.4                   | 4.0                            |
| 2                                                   | 5150.00        | 42.5 AV                       | 54.0              | -11.5          | 2.22 V                   | 178                        | 38.5                   | 4.0                            |
| 3                                                   | *5260.00       | 110.2 PK                      |                   |                | 2.27 V                   | 174                        | 69.7                   | 40.5                           |
| 4                                                   | *5260.00       | 99.4 AV                       |                   |                | 2.27 V                   | 174                        | 58.9                   | 40.5                           |
| 5                                                   | #10520.00      | 56.9 PK                       | 74.0              | -17.1          | 2.41 V                   | 268                        | 41.4                   | 15.5                           |
| 6                                                   | #10520.00      | 43.8 AV                       | 54.0              | -10.2          | 2.41 V                   | 268                        | 28.3                   | 15.5                           |

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |               |          |              |
|-----------------|---------------|----------|--------------|
| CHANNEL         | TX Channel 60 | DETECTOR | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz  | FUNCTION | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5300.00       | 106.5 PK                      |                   |                | 1.44 H                   | 170                        | 66.0                   | 40.5                           |
| 2                                                   | *5300.00       | 96.5 AV                       |                   |                | 1.44 H                   | 170                        | 56.0                   | 40.5                           |
| 3                                                   | 10600.00       | 56.5 PK                       | 74.0              | -17.5          | 1.29 H                   | 341                        | 40.7                   | 15.8                           |
| 4                                                   | 10600.00       | 43.6 AV                       | 54.0              | -10.4          | 1.29 H                   | 341                        | 27.8                   | 15.8                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5300.00       | 110.3 PK                      |                   |                | 2.38 V                   | 169                        | 69.8                   | 40.5                           |
| 2                                                   | *5300.00       | 100.1 AV                      |                   |                | 2.38 V                   | 169                        | 59.6                   | 40.5                           |
| 3                                                   | 10600.00       | 56.9 PK                       | 74.0              | -17.1          | 1.72 V                   | 54                         | 41.1                   | 15.8                           |
| 4                                                   | 10600.00       | 44.1 AV                       | 54.0              | -9.9           | 1.72 V                   | 54                         | 28.3                   | 15.8                           |

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |               |          |              |
|-----------------|---------------|----------|--------------|
| CHANNEL         | TX Channel 64 | DETECTOR | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz  | FUNCTION | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5320.00       | 106.8 PK                      |                   |                | 1.42 H                   | 170                        | 66.2                   | 40.6                           |
| 2                                                   | *5320.00       | 95.6 AV                       |                   |                | 1.42 H                   | 170                        | 55.0                   | 40.6                           |
| 3                                                   | 5350.00        | 62.6 PK                       | 74.0              | -11.4          | 1.33 H                   | 188                        | 58.5                   | 4.1                            |
| 4                                                   | 5350.00        | 46.9 AV                       | 54.0              | -7.1           | 1.33 H                   | 188                        | 42.8                   | 4.1                            |
| 5                                                   | 10640.00       | 57.6 PK                       | 74.0              | -16.4          | 2.37 H                   | 284                        | 41.8                   | 15.8                           |
| 6                                                   | 10640.00       | 43.8 AV                       | 54.0              | -10.2          | 2.37 H                   | 284                        | 28.0                   | 15.8                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5320.00       | 111.0 PK                      |                   |                | 2.46 V                   | 170                        | 70.4                   | 40.6                           |
| 2                                                   | *5320.00       | 100.0 AV                      |                   |                | 2.46 V                   | 170                        | 59.4                   | 40.6                           |
| 3                                                   | 5350.00        | 68.0 PK                       | 74.0              | -6.0           | 2.33 V                   | 174                        | 63.9                   | 4.1                            |
| 4                                                   | 5350.00        | 48.9 AV                       | 54.0              | -5.1           | 2.33 V                   | 174                        | 44.8                   | 4.1                            |
| 5                                                   | 10640.00       | 57.0 PK                       | 74.0              | -17.0          | 3.82 V                   | 107                        | 41.2                   | 15.8                           |
| 6                                                   | 10640.00       | 43.7 AV                       | 54.0              | -10.3          | 3.82 V                   | 107                        | 27.9                   | 15.8                           |

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |                |          |              |
|-----------------|----------------|----------|--------------|
| CHANNEL         | TX Channel 100 | DETECTOR | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz   | FUNCTION | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 5460.00        | 57.6 PK                       | 74.0              | -16.4          | 3.05 H                   | 3                          | 53.3                   | 4.3                            |
| 2                                                   | 5460.00        | 44.0 AV                       | 54.0              | -10.0          | 3.05 H                   | 3                          | 39.7                   | 4.3                            |
| 3                                                   | #5470.00       | 63.6 PK                       | 74.0              | -10.4          | 3.31 H                   | 19                         | 59.2                   | 4.4                            |
| 4                                                   | #5470.00       | 48.3 AV                       | 54.0              | -5.7           | 3.31 H                   | 19                         | 43.9                   | 4.4                            |
| 5                                                   | *5500.00       | 108.8 PK                      |                   |                | 3.16 H                   | 18                         | 67.5                   | 41.3                           |
| 6                                                   | *5500.00       | 98.4 AV                       |                   |                | 3.16 H                   | 18                         | 57.1                   | 41.3                           |
| 7                                                   | 11000.00       | 59.7 PK                       | 74.0              | -14.3          | 2.04 H                   | 157                        | 42.2                   | 17.5                           |
| 8                                                   | 11000.00       | 47.3 AV                       | 54.0              | -6.7           | 2.04 H                   | 157                        | 29.8                   | 17.5                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 5460.00        | 56.3 PK                       | 74.0              | -17.7          | 3.77 V                   | 102                        | 52.0                   | 4.3                            |
| 2                                                   | 5460.00        | 44.0 AV                       | 54.0              | -10.0          | 3.77 V                   | 102                        | 39.7                   | 4.3                            |
| 3                                                   | #5470.00       | 63.5 PK                       | 74.0              | -10.5          | 3.91 V                   | 133                        | 59.1                   | 4.4                            |
| 4                                                   | #5470.00       | 47.0 AV                       | 54.0              | -7.0           | 3.91 V                   | 133                        | 42.6                   | 4.4                            |
| 5                                                   | *5500.00       | 107.3 PK                      |                   |                | 3.83 V                   | 99                         | 66.0                   | 41.3                           |
| 6                                                   | *5500.00       | 96.9 AV                       |                   |                | 3.83 V                   | 99                         | 55.6                   | 41.3                           |
| 7                                                   | 11000.00       | 61.1 PK                       | 74.0              | -12.9          | 1.67 V                   | 234                        | 43.6                   | 17.5                           |
| 8                                                   | 11000.00       | 46.9 AV                       | 54.0              | -7.1           | 1.67 V                   | 234                        | 29.4                   | 17.5                           |

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |                |          |              |
|-----------------|----------------|----------|--------------|
| CHANNEL         | TX Channel 116 | DETECTOR | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz   | FUNCTION | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5580.00       | 109.7 PK                      |                   |                | 3.10 H                   | 19                         | 68.3                   | 41.4                           |
| 2                                                   | *5580.00       | 99.6 AV                       |                   |                | 3.10 H                   | 19                         | 58.2                   | 41.4                           |
| 3                                                   | 11600.00       | 58.7 PK                       | 74.0              | -15.3          | 2.04 H                   | 175                        | 43.2                   | 15.5                           |
| 4                                                   | 11600.00       | 45.8 AV                       | 54.0              | -8.2           | 2.04 H                   | 175                        | 30.3                   | 15.5                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5580.00       | 106.6 PK                      |                   |                | 3.73 V                   | 34                         | 65.2                   | 41.4                           |
| 2                                                   | *5580.00       | 96.4 AV                       |                   |                | 3.73 V                   | 34                         | 55.0                   | 41.4                           |
| 3                                                   | 11160.00       | 57.9 PK                       | 74.0              | -16.1          | 2.41 V                   | 185                        | 41.9                   | 16.0                           |
| 4                                                   | 11160.00       | 45.6 AV                       | 54.0              | -8.4           | 2.41 V                   | 185                        | 29.6                   | 16.0                           |

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |                |                   |              |
|-----------------|----------------|-------------------|--------------|
| CHANNEL         | TX Channel 140 | DETECTOR FUNCTION | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz   |                   | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|-----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | *5700.00    | 106.4 PK                |                |             | 3.08 H             | 29                   | 64.9             | 41.5                     |
| 2                                                   | *5700.00    | 96.4 AV                 |                |             | 3.08 H             | 29                   | 54.9             | 41.5                     |
| 3                                                   | #5725.00    | 59.8 PK                 | 74.0           | -14.2       | 2.99 H             | 39                   | 54.9             | 4.9                      |
| 4                                                   | #5725.00    | 46.2 AV                 | 54.0           | -7.8        | 2.99 H             | 39                   | 41.3             | 4.9                      |
| 5                                                   | 11400.00    | 59.2 PK                 | 74.0           | -14.8       | 2.74 H             | 145                  | 43.1             | 16.1                     |
| 6                                                   | 11400.00    | 46.2 AV                 | 54.0           | -7.8        | 2.74 H             | 145                  | 30.1             | 16.1                     |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |             |                         |                |             |                    |                      |                  |                          |
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | *5700.00    | 105.6 PK                |                |             | 3.73 V             | 102                  | 64.1             | 41.5                     |
| 2                                                   | *5700.00    | 95.5 AV                 |                |             | 3.73 V             | 102                  | 54.0             | 41.5                     |
| 3                                                   | #5725.00    | 57.5 PK                 | 74.0           | -16.5       | 3.87 V             | 115                  | 52.6             | 4.9                      |
| 4                                                   | #5725.00    | 45.3 AV                 | 54.0           | -8.7        | 3.87 V             | 115                  | 40.4             | 4.9                      |
| 5                                                   | 11400.00    | 58.0 PK                 | 74.0           | -16.0       | 3.04 V             | 175                  | 41.9             | 16.1                     |
| 6                                                   | 11400.00    | 45.7 AV                 | 54.0           | -8.3        | 3.04 V             | 175                  | 29.6             | 16.1                     |

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |                |                      |              |
|-----------------|----------------|----------------------|--------------|
| CHANNEL         | TX Channel 149 | DETECTOR<br>FUNCTION | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz   |                      | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | #5615.20       | 58.5 PK                       | 68.2              | -9.7           | 1.65 H                   | 164                        | 53.8                   | 4.7                            |
| 2                                                   | *5745.00       | 107.4 PK                      |                   |                | 1.65 H                   | 164                        | 65.7                   | 41.7                           |
| 3                                                   | *5745.00       | 96.7 AV                       |                   |                | 1.65 H                   | 164                        | 55.0                   | 41.7                           |
| 4                                                   | #5938.40       | 59.1 PK                       | 68.2              | -9.1           | 1.65 H                   | 164                        | 53.7                   | 5.4                            |
| 5                                                   | 11490.00       | 58.3 PK                       | 74.0              | -15.7          | 1.88 H                   | 304                        | 42.3                   | 16.0                           |
| 6                                                   | 11490.00       | 45.2 AV                       | 54.0              | -8.8           | 1.88 H                   | 304                        | 29.2                   | 16.0                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | #5644.00       | 58.8 PK                       | 68.2              | -9.4           | 2.24 V                   | 111                        | 54.1                   | 4.7                            |
| 2                                                   | *5745.00       | 109.8 PK                      |                   |                | 2.24 V                   | 111                        | 68.1                   | 41.7                           |
| 3                                                   | *5745.00       | 98.6 AV                       |                   |                | 2.24 V                   | 111                        | 56.9                   | 41.7                           |
| 4                                                   | #5939.20       | 59.5 PK                       | 68.2              | -8.7           | 2.24 V                   | 111                        | 54.1                   | 5.4                            |
| 5                                                   | 11490.00       | 59.3 PK                       | 74.0              | -14.7          | 2.61 V                   | 184                        | 43.3                   | 16.0                           |
| 6                                                   | 11490.00       | 45.1 AV                       | 54.0              | -8.9           | 2.61 V                   | 184                        | 29.1                   | 16.0                           |

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |                |          |              |
|-----------------|----------------|----------|--------------|
| CHANNEL         | TX Channel 157 | DETECTOR | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz   | FUNCTION | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | #5604.80       | 58.3 PK                       | 68.2              | -9.9           | 1.64 H                   | 166                        | 53.6                   | 4.7                            |
| 2                                                   | *5785.00       | 108.8 PK                      |                   |                | 1.64 H                   | 166                        | 66.9                   | 41.9                           |
| 3                                                   | *5785.00       | 97.4 AV                       |                   |                | 1.64 H                   | 166                        | 55.5                   | 41.9                           |
| 4                                                   | #5942.40       | 59.1 PK                       | 68.2              | -9.1           | 1.64 H                   | 166                        | 53.7                   | 5.4                            |
| 5                                                   | 11570.00       | 57.7 PK                       | 74.0              | -16.3          | 2.77 H                   | 108                        | 42.1                   | 15.6                           |
| 6                                                   | 11570.00       | 45.2 AV                       | 54.0              | -8.8           | 2.77 H                   | 108                        | 29.6                   | 15.6                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | #5611.20       | 58.5 PK                       | 68.2              | -9.7           | 2.29 V                   | 108                        | 53.8                   | 4.7                            |
| 2                                                   | *5785.00       | 110.4 PK                      |                   |                | 2.29 V                   | 108                        | 68.5                   | 41.9                           |
| 3                                                   | *5785.00       | 99.9 AV                       |                   |                | 2.29 V                   | 108                        | 58.0                   | 41.9                           |
| 4                                                   | #5944.00       | 59.2 PK                       | 68.2              | -9.0           | 2.29 V                   | 108                        | 53.8                   | 5.4                            |
| 5                                                   | 11570.00       | 58.9 PK                       | 74.0              | -15.1          | 1.42 V                   | 306                        | 43.3                   | 15.6                           |
| 6                                                   | 11570.00       | 45.5 AV                       | 54.0              | -8.5           | 1.42 V                   | 306                        | 29.9                   | 15.6                           |

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |                |          |              |
|-----------------|----------------|----------|--------------|
| CHANNEL         | TX Channel 165 | DETECTOR | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz   | FUNCTION | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | #5628.80       | 57.8 PK                       | 68.2              | -10.4          | 1.67 H                   | 164                        | 53.1                   | 4.7                            |
| 2                                                   | *5825.00       | 109.3 PK                      |                   |                | 1.67 H                   | 164                        | 67.2                   | 42.1                           |
| 3                                                   | *5825.00       | 98.6 AV                       |                   |                | 1.67 H                   | 164                        | 56.5                   | 42.1                           |
| 4                                                   | #5992.00       | 59.1 PK                       | 68.2              | -9.1           | 1.67 H                   | 164                        | 53.6                   | 5.5                            |
| 5                                                   | 11650.00       | 56.9 PK                       | 74.0              | -17.1          | 2.86 H                   | 41                         | 41.6                   | 15.3                           |
| 6                                                   | 11650.00       | 44.1 AV                       | 54.0              | -9.9           | 2.86 H                   | 41                         | 28.8                   | 15.3                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | #5647.20       | 58.8 PK                       | 68.2              | -9.4           | 2.35 V                   | 108                        | 54.1                   | 4.7                            |
| 2                                                   | *5825.00       | 111.4 PK                      |                   |                | 2.35 V                   | 108                        | 69.3                   | 42.1                           |
| 3                                                   | *5825.00       | 100.9 AV                      |                   |                | 2.35 V                   | 108                        | 58.8                   | 42.1                           |
| 4                                                   | #5992.00       | 58.9 PK                       | 68.2              | -9.3           | 2.35 V                   | 108                        | 53.4                   | 5.5                            |
| 5                                                   | 11650.00       | 56.8 PK                       | 74.0              | -17.2          | 1.87 V                   | 140                        | 41.5                   | 15.3                           |
| 6                                                   | 11650.00       | 44.1 AV                       | 54.0              | -9.9           | 1.87 V                   | 140                        | 28.8                   | 15.3                           |

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

# 802.11n (HT20)

|                 |               |          |              |
|-----------------|---------------|----------|--------------|
| CHANNEL         | TX Channel 36 | DETECTOR | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz  | FUNCTION | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 5150.00        | 57.0 PK                       | 74.0              | -17.0          | 3.44 H                   | 16                         | 53.0                   | 4.0                            |
| 2                                                   | 5150.00        | 44.2 AV                       | 54.0              | -9.8           | 3.44 H                   | 16                         | 40.2                   | 4.0                            |
| 3                                                   | *5180.00       | 107.6 PK                      |                   |                | 3.61 H                   | 8                          | 66.9                   | 40.7                           |
| 4                                                   | *5180.00       | 97.5 AV                       |                   |                | 3.61 H                   | 8                          | 56.8                   | 40.7                           |
| 5                                                   | #10360.00      | 58.6 PK                       | 74.0              | -15.4          | 1.96 H                   | 238                        | 43.2                   | 15.4                           |
| 6                                                   | #10360.00      | 45.8 AV                       | 54.0              | -8.2           | 1.96 H                   | 238                        | 30.4                   | 15.4                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 5150.00        | 56.1 PK                       | 74.0              | -17.9          | 3.76 V                   | 116                        | 52.1                   | 4.0                            |
| 2                                                   | 5150.00        | 42.9 AV                       | 54.0              | -11.1          | 3.76 V                   | 116                        | 38.9                   | 4.0                            |
| 3                                                   | *5180.00       | 106.5 PK                      |                   |                | 3.71 V                   | 110                        | 65.8                   | 40.7                           |
| 4                                                   | *5180.00       | 96.4 AV                       |                   |                | 3.71 V                   | 110                        | 55.7                   | 40.7                           |
| 5                                                   | #10360.00      | 57.2 PK                       | 74.0              | -16.8          | 3.72 V                   | 291                        | 41.8                   | 15.4                           |
| 6                                                   | #10360.00      | 45.0 AV                       | 54.0              | -9.0           | 3.72 V                   | 291                        | 29.6                   | 15.4                           |

## 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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |               |          |              |
|-----------------|---------------|----------|--------------|
| CHANNEL         | TX Channel 40 | DETECTOR | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz  | FUNCTION | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5200.00       | 108.6 PK                      |                   |                | 3.46 H                   | 15                         | 67.9                   | 40.7                           |
| 2                                                   | *5200.00       | 98.5 AV                       |                   |                | 3.46 H                   | 15                         | 57.8                   | 40.7                           |
| 3                                                   | #10400.00      | 58.8 PK                       | 74.0              | -15.2          | 2.34 H                   | 184                        | 43.4                   | 15.4                           |
| 4                                                   | #10400.00      | 46.0 AV                       | 54.0              | -8.0           | 2.34 H                   | 184                        | 30.6                   | 15.4                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5200.00       | 108.3 PK                      |                   |                | 3.67 V                   | 107                        | 67.6                   | 40.7                           |
| 2                                                   | *5200.00       | 98.1 AV                       |                   |                | 3.67 V                   | 107                        | 57.4                   | 40.7                           |
| 3                                                   | #10400.00      | 57.5 PK                       | 74.0              | -16.5          | 1.12 V                   | 238                        | 42.1                   | 15.4                           |
| 4                                                   | #10400.00      | 45.2 AV                       | 54.0              | -8.8           | 1.12 V                   | 238                        | 29.8                   | 15.4                           |

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |               |                   |              |
|-----------------|---------------|-------------------|--------------|
| CHANNEL         | TX Channel 48 | DETECTOR FUNCTION | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz  |                   | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|-----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | *5240.00    | 109.7 PK                |                |             | 3.49 H             | 14                   | 69.2             | 40.5                     |
| 2                                                   | *5240.00    | 99.3 AV                 |                |             | 3.49 H             | 14                   | 58.8             | 40.5                     |
| 3                                                   | 5350.00     | 54.9 PK                 | 74.0           | -19.1       | 3.65 H             | 7                    | 50.8             | 4.1                      |
| 4                                                   | 5350.00     | 42.4 AV                 | 54.0           | -11.6       | 3.65 H             | 7                    | 38.3             | 4.1                      |
| 5                                                   | #10480.00   | 58.7 PK                 | 74.0           | -15.3       | 2.74 H             | 160                  | 43.2             | 15.5                     |
| 6                                                   | #10480.00   | 46.0 AV                 | 54.0           | -8.0        | 2.74 H             | 160                  | 30.5             | 15.5                     |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |             |                         |                |             |                    |                      |                  |                          |
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | *5240.00    | 108.7 PK                |                |             | 3.67 V             | 106                  | 68.2             | 40.5                     |
| 2                                                   | *5240.00    | 97.9 AV                 |                |             | 3.67 V             | 106                  | 57.4             | 40.5                     |
| 3                                                   | 5350.00     | 54.7 PK                 | 74.0           | -19.3       | 3.73 V             | 114                  | 50.6             | 4.1                      |
| 4                                                   | 5350.00     | 42.0 AV                 | 54.0           | -12.0       | 3.73 V             | 114                  | 37.9             | 4.1                      |
| 5                                                   | #10480.00   | 57.4 PK                 | 74.0           | -16.6       | 1.72 V             | 204                  | 41.9             | 15.5                     |
| 6                                                   | #10480.00   | 45.3 AV                 | 54.0           | -8.7        | 1.72 V             | 204                  | 29.8             | 15.5                     |

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |               |          |              |
|-----------------|---------------|----------|--------------|
| CHANNEL         | TX Channel 52 | DETECTOR | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz  | FUNCTION | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 5150.00        | 56.8 PK                       | 74.0              | -17.2          | 1.42 H                   | 178                        | 52.8                   | 4.0                            |
| 2                                                   | 5150.00        | 42.5 AV                       | 54.0              | -11.5          | 1.42 H                   | 178                        | 38.5                   | 4.0                            |
| 3                                                   | *5260.00       | 107.0 PK                      |                   |                | 1.49 H                   | 168                        | 66.5                   | 40.5                           |
| 4                                                   | *5260.00       | 96.9 AV                       |                   |                | 1.49 H                   | 168                        | 56.4                   | 40.5                           |
| 5                                                   | #10520.00      | 56.8 PK                       | 74.0              | -17.2          | 1.73 H                   | 204                        | 41.3                   | 15.5                           |
| 6                                                   | #10520.00      | 43.9 AV                       | 54.0              | -10.1          | 1.73 H                   | 204                        | 28.4                   | 15.5                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 5150.00        | 55.4 PK                       | 74.0              | -18.6          | 2.22 V                   | 164                        | 51.4                   | 4.0                            |
| 2                                                   | 5150.00        | 42.6 AV                       | 54.0              | -11.4          | 2.22 V                   | 164                        | 38.6                   | 4.0                            |
| 3                                                   | *5260.00       | 109.8 PK                      |                   |                | 2.30 V                   | 170                        | 69.3                   | 40.5                           |
| 4                                                   | *5260.00       | 98.9 AV                       |                   |                | 2.30 V                   | 170                        | 58.4                   | 40.5                           |
| 5                                                   | #10520.00      | 56.7 PK                       | 74.0              | -17.3          | 1.94 V                   | 130                        | 41.2                   | 15.5                           |
| 6                                                   | #10520.00      | 43.6 AV                       | 54.0              | -10.4          | 1.94 V                   | 130                        | 28.1                   | 15.5                           |

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |               |          |              |
|-----------------|---------------|----------|--------------|
| CHANNEL         | TX Channel 60 | DETECTOR | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz  | FUNCTION | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5300.00       | 106.7 PK                      |                   |                | 1.47 H                   | 172                        | 66.2                   | 40.5                           |
| 2                                                   | *5300.00       | 96.2 AV                       |                   |                | 1.47 H                   | 172                        | 55.7                   | 40.5                           |
| 3                                                   | 10600.00       | 57.4 PK                       | 74.0              | -16.6          | 3.26 H                   | 158                        | 41.6                   | 15.8                           |
| 4                                                   | 10600.00       | 44.3 AV                       | 54.0              | -9.7           | 3.26 H                   | 158                        | 28.5                   | 15.8                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5300.00       | 109.5 PK                      |                   |                | 2.35 V                   | 174                        | 69.0                   | 40.5                           |
| 2                                                   | *5300.00       | 98.9 AV                       |                   |                | 2.35 V                   | 174                        | 58.4                   | 40.5                           |
| 3                                                   | 10600.00       | 57.3 PK                       | 74.0              | -16.7          | 3.61 V                   | 263                        | 41.5                   | 15.8                           |
| 4                                                   | 10600.00       | 44.1 AV                       | 54.0              | -9.9           | 3.61 V                   | 263                        | 28.3                   | 15.8                           |

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |               |                      |              |
|-----------------|---------------|----------------------|--------------|
| CHANNEL         | TX Channel 64 | DETECTOR<br>FUNCTION | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz  |                      | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5320.00       | 107.0 PK                      |                   |                | 1.42 H                   | 170                        | 66.4                   | 40.6                           |
| 2                                                   | *5320.00       | 96.0 AV                       |                   |                | 1.42 H                   | 170                        | 55.4                   | 40.6                           |
| 3                                                   | 5350.00        | 63.9 PK                       | 74.0              | -10.1          | 1.45 H                   | 175                        | 59.8                   | 4.1                            |
| 4                                                   | 5350.00        | 47.4 AV                       | 54.0              | -6.6           | 1.45 H                   | 175                        | 43.3                   | 4.1                            |
| 5                                                   | 10640.00       | 57.4 PK                       | 74.0              | -16.6          | 1.97 H                   | 22                         | 41.6                   | 15.8                           |
| 6                                                   | 10640.00       | 43.9 AV                       | 54.0              | -10.1          | 1.97 H                   | 22                         | 28.1                   | 15.8                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5320.00       | 110.0 PK                      |                   |                | 2.33 V                   | 175                        | 69.4                   | 40.6                           |
| 2                                                   | *5320.00       | 99.3 AV                       |                   |                | 2.33 V                   | 175                        | 58.7                   | 40.6                           |
| 3                                                   | 5350.00        | 65.5 PK                       | 74.0              | -8.5           | 2.34 V                   | 175                        | 61.4                   | 4.1                            |
| 4                                                   | 5350.00        | 48.8 AV                       | 54.0              | -5.2           | 2.34 V                   | 175                        | 44.7                   | 4.1                            |
| 5                                                   | 10640.00       | 56.6 PK                       | 74.0              | -17.4          | 1.50 V                   | 164                        | 40.8                   | 15.8                           |
| 6                                                   | 10640.00       | 43.6 AV                       | 54.0              | -10.4          | 1.50 V                   | 164                        | 27.8                   | 15.8                           |

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |                |          |              |
|-----------------|----------------|----------|--------------|
| CHANNEL         | TX Channel 100 | DETECTOR | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz   | FUNCTION | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 5460.00        | 59.7 PK                       | 74.0              | -14.3          | 3.34 H                   | 29                         | 55.4                   | 4.3                            |
| 2                                                   | 5460.00        | 44.4 AV                       | 54.0              | -9.6           | 3.34 H                   | 29                         | 40.1                   | 4.3                            |
| 3                                                   | #5470.00       | 65.6 PK                       | 74.0              | -8.4           | 3.17 H                   | 25                         | 61.2                   | 4.4                            |
| 4                                                   | #5470.00       | 48.1 AV                       | 54.0              | -5.9           | 3.17 H                   | 25                         | 43.7                   | 4.4                            |
| 5                                                   | *5500.00       | 108.5 PK                      |                   |                | 3.30 H                   | 20                         | 67.2                   | 41.3                           |
| 6                                                   | *5500.00       | 98.3 AV                       |                   |                | 3.30 H                   | 20                         | 57.0                   | 41.3                           |
| 7                                                   | 11000.00       | 60.9 PK                       | 74.0              | -13.1          | 2.38 H                   | 252                        | 43.4                   | 17.5                           |
| 8                                                   | 11000.00       | 47.8 AV                       | 54.0              | -6.2           | 2.38 H                   | 252                        | 30.3                   | 17.5                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 5460.00        | 57.5 PK                       | 74.0              | -16.5          | 3.74 V                   | 48                         | 53.2                   | 4.3                            |
| 2                                                   | 5460.00        | 43.9 AV                       | 54.0              | -10.1          | 3.74 V                   | 48                         | 39.6                   | 4.3                            |
| 3                                                   | #5470.00       | 60.8 PK                       | 74.0              | -13.2          | 3.49 V                   | 61                         | 56.4                   | 4.4                            |
| 4                                                   | #5470.00       | 46.9 AV                       | 54.0              | -7.1           | 3.49 V                   | 61                         | 42.5                   | 4.4                            |
| 5                                                   | *5500.00       | 107.3 PK                      |                   |                | 3.86 V                   | 46                         | 66.0                   | 41.3                           |
| 6                                                   | *5500.00       | 96.9 AV                       |                   |                | 3.86 V                   | 46                         | 55.6                   | 41.3                           |
| 7                                                   | 11000.00       | 59.8 PK                       | 74.0              | -14.2          | 1.64 V                   | 152                        | 42.3                   | 17.5                           |
| 8                                                   | 11000.00       | 47.3 AV                       | 54.0              | -6.7           | 1.64 V                   | 152                        | 29.8                   | 17.5                           |

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |                |          |              |
|-----------------|----------------|----------|--------------|
| CHANNEL         | TX Channel 116 | DETECTOR | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz   | FUNCTION | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5580.00       | 108.9 PK                      |                   |                | 3.13 H                   | 22                         | 67.5                   | 41.4                           |
| 2                                                   | *5580.00       | 98.7 AV                       |                   |                | 3.13 H                   | 22                         | 57.3                   | 41.4                           |
| 3                                                   | 11600.00       | 58.3 PK                       | 74.0              | -15.7          | 1.64 H                   | 205                        | 42.8                   | 15.5                           |
| 4                                                   | 11600.00       | 45.9 AV                       | 54.0              | -8.1           | 1.64 H                   | 205                        | 30.4                   | 15.5                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5580.00       | 107.2 PK                      |                   |                | 3.86 V                   | 49                         | 65.8                   | 41.4                           |
| 2                                                   | *5580.00       | 96.6 AV                       |                   |                | 3.86 V                   | 49                         | 55.2                   | 41.4                           |
| 3                                                   | 11600.00       | 57.3 PK                       | 74.0              | -16.7          | 1.94 V                   | 239                        | 41.8                   | 15.5                           |
| 4                                                   | 11600.00       | 45.2 AV                       | 54.0              | -8.8           | 1.94 V                   | 239                        | 29.7                   | 15.5                           |

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |                |                      |              |
|-----------------|----------------|----------------------|--------------|
| CHANNEL         | TX Channel 140 | DETECTOR<br>FUNCTION | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz   |                      | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5700.00       | 106.7 PK                      |                   |                | 3.16 H                   | 37                         | 65.2                   | 41.5                           |
| 2                                                   | *5700.00       | 96.7 AV                       |                   |                | 3.16 H                   | 37                         | 55.2                   | 41.5                           |
| 3                                                   | #5725.00       | 63.1 PK                       | 74.0              | -10.9          | 3.11 H                   | 41                         | 58.2                   | 4.9                            |
| 4                                                   | #5725.00       | 47.4 AV                       | 54.0              | -6.6           | 3.11 H                   | 41                         | 42.5                   | 4.9                            |
| 5                                                   | 11400.00       | 59.4 PK                       | 74.0              | -14.6          | 3.72 H                   | 182                        | 43.3                   | 16.1                           |
| 6                                                   | 11400.00       | 46.3 AV                       | 54.0              | -7.7           | 3.72 H                   | 182                        | 30.2                   | 16.1                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5700.00       | 104.4 PK                      |                   |                | 3.91 V                   | 52                         | 62.9                   | 41.5                           |
| 2                                                   | *5700.00       | 94.3 AV                       |                   |                | 3.91 V                   | 52                         | 52.8                   | 41.5                           |
| 3                                                   | #5725.00       | 59.7 PK                       | 74.0              | -14.3          | 3.92 V                   | 35                         | 54.8                   | 4.9                            |
| 4                                                   | #5725.00       | 45.9 AV                       | 54.0              | -8.1           | 3.92 V                   | 35                         | 41.0                   | 4.9                            |
| 5                                                   | 11400.00       | 58.2 PK                       | 74.0              | -15.8          | 3.51 V                   | 262                        | 42.1                   | 16.1                           |
| 6                                                   | 11400.00       | 45.9 AV                       | 54.0              | -8.1           | 3.51 V                   | 262                        | 29.8                   | 16.1                           |

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |                |          |              |
|-----------------|----------------|----------|--------------|
| CHANNEL         | TX Channel 149 | DETECTOR | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz   | FUNCTION | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | #5641.60       | 58.6 PK                       | 68.2              | -9.6           | 1.69 H                   | 164                        | 53.9                   | 4.7                            |
| 2                                                   | *5745.00       | 107.5 PK                      |                   |                | 1.69 H                   | 164                        | 65.8                   | 41.7                           |
| 3                                                   | *5745.00       | 97.0 AV                       |                   |                | 1.69 H                   | 164                        | 55.3                   | 41.7                           |
| 4                                                   | #5947.20       | 59.4 PK                       | 68.2              | -8.8           | 1.69 H                   | 164                        | 54.0                   | 5.4                            |
| 5                                                   | 11490.00       | 57.6 PK                       | 74.0              | -16.4          | 1.80 H                   | 196                        | 41.6                   | 16.0                           |
| 6                                                   | 11490.00       | 45.5 AV                       | 54.0              | -8.5           | 1.80 H                   | 196                        | 29.5                   | 16.0                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | #5646.40       | 58.1 PK                       | 68.2              | -10.1          | 2.35 V                   | 109                        | 53.4                   | 4.7                            |
| 2                                                   | *5745.00       | 110.9 PK                      |                   |                | 2.35 V                   | 109                        | 69.2                   | 41.7                           |
| 3                                                   | *5745.00       | 100.0 AV                      |                   |                | 2.35 V                   | 109                        | 58.3                   | 41.7                           |
| 4                                                   | #5932.00       | 60.0 PK                       | 68.2              | -8.2           | 2.35 V                   | 109                        | 54.5                   | 5.5                            |
| 5                                                   | 11490.00       | 58.9 PK                       | 74.0              | -15.1          | 3.42 V                   | 68                         | 42.9                   | 16.0                           |
| 6                                                   | 11490.00       | 44.5 AV                       | 54.0              | -9.5           | 3.42 V                   | 68                         | 28.5                   | 16.0                           |

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |                |          |              |
|-----------------|----------------|----------|--------------|
| CHANNEL         | TX Channel 157 | DETECTOR | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz   | FUNCTION | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | #5641.60       | 58.5 PK                       | 68.2              | -9.7           | 1.63 H                   | 166                        | 53.8                   | 4.7                            |
| 2                                                   | *5785.00       | 108.3 PK                      |                   |                | 1.63 H                   | 166                        | 66.4                   | 41.9                           |
| 3                                                   | *5785.00       | 97.5 AV                       |                   |                | 1.63 H                   | 166                        | 55.6                   | 41.9                           |
| 4                                                   | #5968.80       | 59.4 PK                       | 68.2              | -8.8           | 1.63 H                   | 166                        | 54.0                   | 5.4                            |
| 5                                                   | 11570.00       | 58.8 PK                       | 74.0              | -15.2          | 2.56 H                   | 197                        | 43.2                   | 15.6                           |
| 6                                                   | 11570.00       | 45.4 AV                       | 54.0              | -8.6           | 2.56 H                   | 197                        | 29.8                   | 15.6                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | #5604.00       | 58.9 PK                       | 68.2              | -9.3           | 2.33 V                   | 109                        | 54.2                   | 4.7                            |
| 2                                                   | *5785.00       | 111.0 PK                      |                   |                | 2.33 V                   | 109                        | 69.1                   | 41.9                           |
| 3                                                   | *5785.00       | 100.2 AV                      |                   |                | 2.33 V                   | 109                        | 58.3                   | 41.9                           |
| 4                                                   | #5992.00       | 59.5 PK                       | 68.2              | -8.7           | 2.33 V                   | 109                        | 54.0                   | 5.5                            |
| 5                                                   | 11570.00       | 58.7 PK                       | 74.0              | -15.3          | 2.53 V                   | 294                        | 43.1                   | 15.6                           |
| 6                                                   | 11570.00       | 45.2 AV                       | 54.0              | -8.8           | 2.53 V                   | 294                        | 29.6                   | 15.6                           |

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |                |          |              |
|-----------------|----------------|----------|--------------|
| CHANNEL         | TX Channel 165 | DETECTOR | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz   | FUNCTION | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | #5604.00       | 58.7 PK                       | 68.2              | -9.5           | 1.65 H                   | 167                        | 54.0                   | 4.7                            |
| 2                                                   | *5825.00       | 108.9 PK                      |                   |                | 1.65 H                   | 167                        | 66.8                   | 42.1                           |
| 3                                                   | *5825.00       | 98.3 AV                       |                   |                | 1.65 H                   | 167                        | 56.2                   | 42.1                           |
| 4                                                   | #5957.60       | 59.3 PK                       | 68.2              | -8.9           | 1.65 H                   | 167                        | 53.9                   | 5.4                            |
| 5                                                   | 11650.00       | 57.5 PK                       | 74.0              | -16.5          | 1.10 H                   | 119                        | 42.2                   | 15.3                           |
| 6                                                   | 11650.00       | 44.4 AV                       | 54.0              | -9.6           | 1.10 H                   | 119                        | 29.1                   | 15.3                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | #5604.00       | 59.3 PK                       | 68.2              | -8.9           | 2.37 V                   | 109                        | 54.6                   | 4.7                            |
| 2                                                   | *5825.00       | 111.1 PK                      |                   |                | 2.37 V                   | 109                        | 69.0                   | 42.1                           |
| 3                                                   | *5825.00       | 100.5 AV                      |                   |                | 2.37 V                   | 109                        | 58.4                   | 42.1                           |
| 4                                                   | #5976.00       | 60.3 PK                       | 68.2              | -7.9           | 2.37 V                   | 109                        | 54.9                   | 5.4                            |
| 5                                                   | 11650.00       | 57.1 PK                       | 74.0              | -16.9          | 1.60 V                   | 188                        | 41.8                   | 15.3                           |
| 6                                                   | 11650.00       | 44.3 AV                       | 54.0              | -9.7           | 1.60 V                   | 188                        | 29.0                   | 15.3                           |

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

# 802.11n (HT40)

|                 |               |          |              |
|-----------------|---------------|----------|--------------|
| CHANNEL         | TX Channel 38 | DETECTOR | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz  | FUNCTION | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 5150.00        | 68.4 PK                       | 74.0              | -5.6           | 3.09 H                   | 19                         | 64.4                   | 4.0                            |
| 2                                                   | 5150.00        | 50.9 AV                       | 54.0              | -3.1           | 3.09 H                   | 19                         | 46.9                   | 4.0                            |
| 3                                                   | *5190.00       | 105.3 PK                      |                   |                | 3.22 H                   | 15                         | 64.6                   | 40.7                           |
| 4                                                   | *5190.00       | 95.0 AV                       |                   |                | 3.22 H                   | 15                         | 54.3                   | 40.7                           |
| 5                                                   | #10380.00      | 58.1 PK                       | 74.0              | -15.9          | 2.41 H                   | 223                        | 42.7                   | 15.4                           |
| 6                                                   | #10380.00      | 45.8 AV                       | 54.0              | -8.2           | 2.41 H                   | 223                        | 30.4                   | 15.4                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 5150.00        | 67.2 PK                       | 74.0              | -6.8           | 3.72 V                   | 116                        | 63.2                   | 4.0                            |
| 2                                                   | 5150.00        | 49.9 AV                       | 54.0              | -4.1           | 3.72 V                   | 116                        | 45.9                   | 4.0                            |
| 3                                                   | *5190.00       | 104.9 PK                      |                   |                | 3.70 V                   | 102                        | 64.2                   | 40.7                           |
| 4                                                   | *5190.00       | 94.2 AV                       |                   |                | 3.70 V                   | 102                        | 53.5                   | 40.7                           |
| 5                                                   | #10380.00      | 57.3 PK                       | 74.0              | -16.7          | 2.71 V                   | 285                        | 41.9                   | 15.4                           |
| 6                                                   | #10380.00      | 45.2 AV                       | 54.0              | -8.8           | 2.71 V                   | 285                        | 29.8                   | 15.4                           |

## 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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |               |          |              |
|-----------------|---------------|----------|--------------|
| CHANNEL         | TX Channel 46 | DETECTOR | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz  | FUNCTION | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5230.00       | 105.3 PK                      |                   |                | 3.23 H                   | 6                          | 64.8                   | 40.5                           |
| 2                                                   | *5230.00       | 95.1 AV                       |                   |                | 3.23 H                   | 6                          | 54.6                   | 40.5                           |
| 3                                                   | 5350.00        | 55.6 PK                       | 74.0              | -18.4          | 3.31 H                   | 347                        | 51.5                   | 4.1                            |
| 4                                                   | 5350.00        | 42.7 AV                       | 54.0              | -11.3          | 3.31 H                   | 347                        | 38.6                   | 4.1                            |
| 5                                                   | #10460.00      | 58.0 PK                       | 74.0              | -16.0          | 1.78 H                   | 209                        | 42.6                   | 15.4                           |
| 6                                                   | #10460.00      | 45.5 AV                       | 54.0              | -8.5           | 1.78 H                   | 209                        | 30.1                   | 15.4                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5230.00       | 105.0 PK                      |                   |                | 3.69 V                   | 105                        | 64.5                   | 40.5                           |
| 2                                                   | *5230.00       | 94.8 AV                       |                   |                | 3.69 V                   | 105                        | 54.3                   | 40.5                           |
| 3                                                   | 5350.00        | 54.8 PK                       | 74.0              | -19.2          | 3.76 V                   | 111                        | 50.7                   | 4.1                            |
| 4                                                   | 5350.00        | 42.3 AV                       | 54.0              | -11.7          | 3.76 V                   | 111                        | 38.2                   | 4.1                            |
| 5                                                   | #10460.00      | 57.8 PK                       | 74.0              | -16.2          | 2.09 V                   | 162                        | 42.4                   | 15.4                           |
| 6                                                   | #10460.00      | 45.1 AV                       | 54.0              | -8.9           | 2.09 V                   | 162                        | 29.7                   | 15.4                           |

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |               |                      |              |
|-----------------|---------------|----------------------|--------------|
| CHANNEL         | TX Channel 54 | DETECTOR<br>FUNCTION | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz  |                      | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 5150.00        | 55.4 PK                       | 74.0              | -18.6          | 1.40 H                   | 176                        | 51.4                   | 4.0                            |
| 2                                                   | 5150.00        | 42.7 AV                       | 54.0              | -11.3          | 1.40 H                   | 176                        | 38.7                   | 4.0                            |
| 3                                                   | *5270.00       | 104.0 PK                      |                   |                | 1.45 H                   | 173                        | 63.5                   | 40.5                           |
| 4                                                   | *5270.00       | 93.5 AV                       |                   |                | 1.45 H                   | 173                        | 53.0                   | 40.5                           |
| 5                                                   | #10540.00      | 57.4 PK                       | 74.0              | -16.6          | 2.25 H                   | 96                         | 41.8                   | 15.6                           |
| 6                                                   | #10540.00      | 44.3 AV                       | 54.0              | -9.7           | 2.25 H                   | 96                         | 28.7                   | 15.6                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 5150.00        | 45.4 PK                       | 74.0              | -28.6          | 2.01 V                   | 356                        | 41.4                   | 4.0                            |
| 2                                                   | 5150.00        | 42.6 AV                       | 54.0              | -11.4          | 2.01 V                   | 356                        | 38.6                   | 4.0                            |
| 3                                                   | *5270.00       | 105.4 PK                      |                   |                | 2.30 V                   | 170                        | 64.9                   | 40.5                           |
| 4                                                   | *5270.00       | 93.3 AV                       |                   |                | 2.30 V                   | 170                        | 52.8                   | 40.5                           |
| 5                                                   | #10540.00      | 57.5 PK                       | 74.0              | -16.5          | 2.18 V                   | 164                        | 41.9                   | 15.6                           |
| 6                                                   | #10540.00      | 44.2 AV                       | 54.0              | -9.8           | 2.18 V                   | 164                        | 28.6                   | 15.6                           |

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |               |          |              |
|-----------------|---------------|----------|--------------|
| CHANNEL         | TX Channel 62 | DETECTOR | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz  | FUNCTION | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5310.00       | 101.1 PK                      |                   |                | 1.50 H                   | 177                        | 60.6                   | 40.5                           |
| 2                                                   | *5310.00       | 90.2 AV                       |                   |                | 1.50 H                   | 177                        | 49.7                   | 40.5                           |
| 3                                                   | 5350.00        | 72.7 PK                       | 74.0              | -1.3           | 1.58 H                   | 188                        | 68.6                   | 4.1                            |
| 4                                                   | 5350.00        | 50.5 AV                       | 54.0              | -3.5           | 1.58 H                   | 188                        | 46.4                   | 4.1                            |
| 5                                                   | 10620.00       | 58.0 PK                       | 74.0              | -16.0          | 3.08 H                   | 294                        | 42.2                   | 15.8                           |
| 6                                                   | 10620.00       | 44.1 AV                       | 54.0              | -9.9           | 3.08 H                   | 294                        | 28.3                   | 15.8                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5310.00       | 103.8 PK                      |                   |                | 2.04 V                   | 169                        | 63.3                   | 40.5                           |
| 2                                                   | *5310.00       | 91.9 AV                       |                   |                | 2.04 V                   | 169                        | 51.4                   | 40.5                           |
| 3                                                   | 5350.00        | 73.3 PK                       | 74.0              | -0.7           | 2.29 V                   | 173                        | 69.2                   | 4.1                            |
| 4                                                   | 5350.00        | 50.9 AV                       | 54.0              | -3.1           | 2.29 V                   | 173                        | 46.8                   | 4.1                            |
| 5                                                   | 10620.00       | 56.6 PK                       | 74.0              | -17.4          | 2.40 V                   | 119                        | 40.8                   | 15.8                           |
| 6                                                   | 10620.00       | 43.8 AV                       | 54.0              | -10.2          | 2.40 V                   | 119                        | 28.0                   | 15.8                           |

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |                |          |              |
|-----------------|----------------|----------|--------------|
| CHANNEL         | TX Channel 102 | DETECTOR | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz   | FUNCTION | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 5460.00        | 59.8 PK                       | 74.0              | -14.2          | 3.46 H                   | 32                         | 55.5                   | 4.3                            |
| 2                                                   | 5460.00        | 46.8 AV                       | 54.0              | -7.2           | 3.46 H                   | 32                         | 42.5                   | 4.3                            |
| 3                                                   | #5470.00       | 70.6 PK                       | 74.0              | -3.4           | 3.40 H                   | 21                         | 66.2                   | 4.4                            |
| 4                                                   | #5470.00       | 52.3 AV                       | 54.0              | -1.7           | 3.40 H                   | 21                         | 47.9                   | 4.4                            |
| 5                                                   | *5510.00       | 103.2 PK                      |                   |                | 3.45 H                   | 22                         | 61.9                   | 41.3                           |
| 6                                                   | *5510.00       | 92.9 AV                       |                   |                | 3.45 H                   | 22                         | 51.6                   | 41.3                           |
| 7                                                   | 11020.00       | 60.6 PK                       | 74.0              | -13.4          | 3.16 H                   | 207                        | 43.4                   | 17.2                           |
| 8                                                   | 11020.00       | 47.6 AV                       | 54.0              | -6.4           | 3.16 H                   | 207                        | 30.4                   | 17.2                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 5460.00        | 58.8 PK                       | 74.0              | -15.2          | 3.86 V                   | 70                         | 54.5                   | 4.3                            |
| 2                                                   | 5460.00        | 46.0 AV                       | 54.0              | -8.0           | 3.86 V                   | 70                         | 41.7                   | 4.3                            |
| 3                                                   | #5470.00       | 69.8 PK                       | 74.0              | -4.2           | 3.75 V                   | 54                         | 65.4                   | 4.4                            |
| 4                                                   | #5470.00       | 51.6 AV                       | 54.0              | -2.4           | 3.75 V                   | 54                         | 47.2                   | 4.4                            |
| 5                                                   | *5510.00       | 102.8 PK                      |                   |                | 3.67 V                   | 29                         | 61.5                   | 41.3                           |
| 6                                                   | *5510.00       | 91.6 AV                       |                   |                | 3.67 V                   | 29                         | 50.3                   | 41.3                           |
| 7                                                   | 11020.00       | 59.6 PK                       | 74.0              | -14.4          | 1.43 V                   | 256                        | 42.4                   | 17.2                           |
| 8                                                   | 11020.00       | 47.0 AV                       | 54.0              | -7.0           | 1.43 V                   | 256                        | 29.8                   | 17.2                           |

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |                |          |              |
|-----------------|----------------|----------|--------------|
| CHANNEL         | TX Channel 110 | DETECTOR | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz   | FUNCTION | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5550.00       | 105.8 PK                      |                   |                | 3.13 H                   | 22                         | 64.4                   | 41.4                           |
| 2                                                   | *5550.00       | 94.9 AV                       |                   |                | 3.13 H                   | 22                         | 53.5                   | 41.4                           |
| 3                                                   | 11100.00       | 58.6 PK                       | 74.0              | -15.4          | 3.04 H                   | 152                        | 42.4                   | 16.2                           |
| 4                                                   | 11100.00       | 46.0 AV                       | 54.0              | -8.0           | 3.04 H                   | 152                        | 29.8                   | 16.2                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5550.00       | 104.7 PK                      |                   |                | 3.95 V                   | 40                         | 63.3                   | 41.4                           |
| 2                                                   | *5550.00       | 94.3 AV                       |                   |                | 3.95 V                   | 40                         | 52.9                   | 41.4                           |
| 3                                                   | 11100.00       | 57.8 PK                       | 74.0              | -16.2          | 1.45 V                   | 247                        | 41.6                   | 16.2                           |
| 4                                                   | 11100.00       | 45.7 AV                       | 54.0              | -8.3           | 1.45 V                   | 247                        | 29.5                   | 16.2                           |

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |                |          |              |
|-----------------|----------------|----------|--------------|
| CHANNEL         | TX Channel 134 | DETECTOR | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz   | FUNCTION | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5670.00       | 104.5 PK                      |                   |                | 3.27 H                   | 36                         | 63.0                   | 41.5                           |
| 2                                                   | *5670.00       | 93.9 AV                       |                   |                | 3.27 H                   | 36                         | 52.4                   | 41.5                           |
| 3                                                   | #5725.00       | 57.1 PK                       | 74.0              | -16.9          | 3.35 H                   | 42                         | 52.2                   | 4.9                            |
| 4                                                   | #5725.00       | 44.1 AV                       | 54.0              | -9.9           | 3.35 H                   | 42                         | 39.2                   | 4.9                            |
| 5                                                   | 11340.00       | 59.5 PK                       | 74.0              | -14.5          | 1.16 H                   | 253                        | 43.1                   | 16.4                           |
| 6                                                   | 11340.00       | 46.5 AV                       | 54.0              | -7.5           | 1.16 H                   | 253                        | 30.1                   | 16.4                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5670.00       | 102.1 PK                      |                   |                | 3.99 V                   | 40                         | 60.6                   | 41.5                           |
| 2                                                   | *5670.00       | 91.7 AV                       |                   |                | 3.99 V                   | 40                         | 50.2                   | 41.5                           |
| 3                                                   | #5725.00       | 56.7 PK                       | 74.0              | -17.3          | 3.84 V                   | 34                         | 51.8                   | 4.9                            |
| 4                                                   | #5725.00       | 43.5 AV                       | 54.0              | -10.5          | 3.84 V                   | 34                         | 38.6                   | 4.9                            |
| 5                                                   | 11340.00       | 58.5 PK                       | 74.0              | -15.5          | 2.37 V                   | 146                        | 42.1                   | 16.4                           |
| 6                                                   | 11340.00       | 46.0 AV                       | 54.0              | -8.0           | 2.37 V                   | 146                        | 29.6                   | 16.4                           |

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |                |          |              |
|-----------------|----------------|----------|--------------|
| CHANNEL         | TX Channel 151 | DETECTOR | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz   | FUNCTION | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | #5648.00       | 58.5 PK                       | 68.2              | -9.7           | 1.67 H                   | 205                        | 53.8                   | 4.7                            |
| 2                                                   | *5755.00       | 103.7 PK                      |                   |                | 1.67 H                   | 205                        | 61.9                   | 41.8                           |
| 3                                                   | *5755.00       | 91.9 AV                       |                   |                | 1.67 H                   | 205                        | 50.1                   | 41.8                           |
| 4                                                   | #5978.40       | 59.6 PK                       | 68.2              | -8.6           | 1.67 H                   | 205                        | 54.2                   | 5.4                            |
| 5                                                   | 11510.00       | 58.2 PK                       | 74.0              | -15.8          | 2.83 H                   | 164                        | 42.3                   | 15.9                           |
| 6                                                   | 11510.00       | 45.3 AV                       | 54.0              | -8.7           | 2.83 H                   | 164                        | 29.4                   | 15.9                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | #5605.60       | 58.2 PK                       | 68.2              | -10.0          | 2.32 V                   | 109                        | 53.5                   | 4.7                            |
| 2                                                   | *5755.00       | 107.3 PK                      |                   |                | 2.32 V                   | 109                        | 65.5                   | 41.8                           |
| 3                                                   | *5755.00       | 96.3 AV                       |                   |                | 2.32 V                   | 109                        | 54.5                   | 41.8                           |
| 4                                                   | #5992.00       | 58.7 PK                       | 68.2              | -9.5           | 2.32 V                   | 109                        | 53.2                   | 5.5                            |
| 5                                                   | 11510.00       | 58.5 PK                       | 74.0              | -15.5          | 1.66 V                   | 184                        | 42.6                   | 15.9                           |
| 6                                                   | 11510.00       | 45.2 AV                       | 54.0              | -8.8           | 1.66 V                   | 184                        | 29.3                   | 15.9                           |

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |                |          |              |
|-----------------|----------------|----------|--------------|
| CHANNEL         | TX Channel 159 | DETECTOR | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz   | FUNCTION | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | #5614.40       | 58.4 PK                       | 68.2              | -9.8           | 1.64 H                   | 206                        | 53.7                   | 4.7                            |
| 2                                                   | *5795.00       | 103.2 PK                      |                   |                | 1.64 H                   | 206                        | 61.2                   | 42.0                           |
| 3                                                   | *5795.00       | 92.1 AV                       |                   |                | 1.64 H                   | 206                        | 50.1                   | 42.0                           |
| 4                                                   | #5967.20       | 59.2 PK                       | 68.2              | -9.0           | 1.64 H                   | 206                        | 53.8                   | 5.4                            |
| 5                                                   | 11590.00       | 57.7 PK                       | 74.0              | -16.3          | 2.84 H                   | 193                        | 42.2                   | 15.5                           |
| 6                                                   | 11590.00       | 45.1 AV                       | 54.0              | -8.9           | 2.84 H                   | 193                        | 29.6                   | 15.5                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | #5600.80       | 58.1 PK                       | 68.2              | -10.1          | 2.33 V                   | 109                        | 53.4                   | 4.7                            |
| 2                                                   | *5795.00       | 107.0 PK                      |                   |                | 2.33 V                   | 109                        | 65.0                   | 42.0                           |
| 3                                                   | *5795.00       | 96.3 AV                       |                   |                | 2.33 V                   | 109                        | 54.3                   | 42.0                           |
| 4                                                   | #5984.80       | 59.2 PK                       | 68.2              | -9.0           | 2.33 V                   | 109                        | 53.7                   | 5.5                            |
| 5                                                   | 11590.00       | 57.8 PK                       | 74.0              | -16.2          | 1.82 V                   | 164                        | 42.3                   | 15.5                           |
| 6                                                   | 11590.00       | 45.2 AV                       | 54.0              | -8.8           | 1.82 V                   | 164                        | 29.7                   | 15.5                           |

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

## 802.11ac (VHT80)

|                 |               |                      |              |
|-----------------|---------------|----------------------|--------------|
| CHANNEL         | TX Channel 42 | DETECTOR<br>FUNCTION | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz  |                      | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 5150.00        | 55.7 PK                       | 74.0              | -18.3          | 3.39 H                   | 17                         | 51.7                   | 4.0                            |
| 2                                                   | 5150.00        | 43.8 AV                       | 54.0              | -10.2          | 3.39 H                   | 17                         | 39.8                   | 4.0                            |
| 3                                                   | *5210.00       | 98.9 PK                       |                   |                | 3.56 H                   | 12                         | 58.3                   | 40.6                           |
| 4                                                   | *5210.00       | 83.5 AV                       |                   |                | 3.56 H                   | 12                         | 42.9                   | 40.6                           |
| 5                                                   | 5350.00        | 54.8 PK                       | 74.0              | -19.2          | 3.67 H                   | 15                         | 50.7                   | 4.1                            |
| 6                                                   | 5350.00        | 42.5 AV                       | 54.0              | -11.5          | 3.67 H                   | 15                         | 38.4                   | 4.1                            |
| 7                                                   | #10420.00      | 58.4 PK                       | 74.0              | -15.6          | 1.76 H                   | 317                        | 43.1                   | 15.3                           |
| 8                                                   | #10420.00      | 45.5 AV                       | 54.0              | -8.5           | 1.76 H                   | 317                        | 30.2                   | 15.3                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 5150.00        | 56.1 PK                       | 74.0              | -17.9          | 3.73 V                   | 142                        | 52.1                   | 4.0                            |
| 2                                                   | 5150.00        | 43.5 AV                       | 54.0              | -10.5          | 3.73 V                   | 142                        | 39.5                   | 4.0                            |
| 3                                                   | *5210.00       | 98.1 PK                       |                   |                | 3.70 V                   | 107                        | 57.5                   | 40.6                           |
| 4                                                   | *5210.00       | 83.4 AV                       |                   |                | 3.70 V                   | 107                        | 42.8                   | 40.6                           |
| 5                                                   | 5350.00        | 54.9 PK                       | 74.0              | -19.1          | 3.82 V                   | 120                        | 50.8                   | 4.1                            |
| 6                                                   | 5350.00        | 42.4 AV                       | 54.0              | -11.6          | 3.82 V                   | 120                        | 38.3                   | 4.1                            |
| 7                                                   | #10420.00      | 58.1 PK                       | 74.0              | -15.9          | 2.16 V                   | 301                        | 42.8                   | 15.3                           |
| 8                                                   | #10420.00      | 45.2 AV                       | 54.0              | -8.8           | 2.16 V                   | 301                        | 29.9                   | 15.3                           |

## 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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |               |                      |              |
|-----------------|---------------|----------------------|--------------|
| CHANNEL         | TX Channel 58 | DETECTOR<br>FUNCTION | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz  |                      | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 5150.00        | 55.6 PK                       | 74.0              | -18.4          | 1.42 H                   | 174                        | 51.6                   | 4.0                            |
| 2                                                   | 5150.00        | 42.8 AV                       | 54.0              | -11.2          | 1.42 H                   | 174                        | 38.8                   | 4.0                            |
| 3                                                   | *5290.00       | 95.5 PK                       |                   |                | 1.46 H                   | 173                        | 55.0                   | 40.5                           |
| 4                                                   | *5290.00       | 81.1 AV                       |                   |                | 1.46 H                   | 173                        | 40.6                   | 40.5                           |
| 5                                                   | 5350.00        | 56.7 PK                       | 74.0              | -17.3          | 1.50 H                   | 177                        | 52.6                   | 4.1                            |
| 6                                                   | 5350.00        | 43.0 AV                       | 54.0              | -11.0          | 1.50 H                   | 177                        | 38.9                   | 4.1                            |
| 7                                                   | #10580.00      | 57.9 PK                       | 74.0              | -16.1          | 2.94 H                   | 193                        | 42.2                   | 15.7                           |
| 8                                                   | #10580.00      | 44.3 AV                       | 54.0              | -9.7           | 2.94 H                   | 193                        | 28.6                   | 15.7                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 5150.00        | 55.7 PK                       | 74.0              | -18.3          | 2.14 V                   | 165                        | 51.7                   | 4.0                            |
| 2                                                   | 5150.00        | 42.8 AV                       | 54.0              | -11.2          | 2.14 V                   | 165                        | 38.8                   | 4.0                            |
| 3                                                   | *5290.00       | 96.8 PK                       |                   |                | 2.18 V                   | 171                        | 56.3                   | 40.5                           |
| 4                                                   | *5290.00       | 81.7 AV                       |                   |                | 2.18 V                   | 171                        | 41.2                   | 40.5                           |
| 5                                                   | 5350.00        | 58.8 PK                       | 74.0              | -15.2          | 2.24 V                   | 178                        | 54.7                   | 4.1                            |
| 6                                                   | 5350.00        | 43.3 AV                       | 54.0              | -10.7          | 2.24 V                   | 178                        | 39.2                   | 4.1                            |
| 7                                                   | #10580.00      | 57.2 PK                       | 74.0              | -16.8          | 2.68 V                   | 24                         | 41.5                   | 15.7                           |
| 8                                                   | #10580.00      | 44.4 AV                       | 54.0              | -9.6           | 2.68 V                   | 24                         | 28.7                   | 15.7                           |

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |                |                      |              |
|-----------------|----------------|----------------------|--------------|
| CHANNEL         | TX Channel 106 | DETECTOR<br>FUNCTION | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz   |                      | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 5460.00        | 56.7 PK                       | 74.0              | -17.3          | 3.24 H                   | 32                         | 52.4                   | 4.3                            |
| 2                                                   | 5460.00        | 44.1 AV                       | 54.0              | -9.9           | 3.24 H                   | 32                         | 39.8                   | 4.3                            |
| 3                                                   | #5470.00       | 56.9 PK                       | 74.0              | -17.1          | 3.11 H                   | 33                         | 52.5                   | 4.4                            |
| 4                                                   | #5470.00       | 43.1 AV                       | 54.0              | -10.9          | 3.11 H                   | 33                         | 38.7                   | 4.4                            |
| 5                                                   | *5530.00       | 96.5 PK                       |                   |                | 3.19 H                   | 24                         | 55.2                   | 41.3                           |
| 6                                                   | *5530.00       | 80.4 AV                       |                   |                | 3.19 H                   | 24                         | 39.1                   | 41.3                           |
| 7                                                   | #5725.00       | 57.4 PK                       | 74.0              | -16.6          | 3.34 H                   | 42                         | 52.5                   | 4.9                            |
| 8                                                   | #5725.00       | 44.2 AV                       | 54.0              | -9.8           | 3.34 H                   | 42                         | 39.3                   | 4.9                            |
| 9                                                   | 11060.00       | 58.5 PK                       | 74.0              | -15.5          | 2.26 H                   | 191                        | 41.8                   | 16.7                           |
| 10                                                  | 11060.00       | 46.3 AV                       | 54.0              | -7.7           | 2.26 H                   | 191                        | 29.6                   | 16.7                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 5460.00        | 56.9 PK                       | 74.0              | -17.1          | 3.82 V                   | 43                         | 52.6                   | 4.3                            |
| 2                                                   | 5460.00        | 44.3 AV                       | 54.0              | -9.7           | 3.82 V                   | 43                         | 40.0                   | 4.3                            |
| 3                                                   | #5470.00       | 57.2 PK                       | 74.0              | -16.8          | 3.65 V                   | 39                         | 52.8                   | 4.4                            |
| 4                                                   | #5470.00       | 44.2 AV                       | 54.0              | -9.8           | 3.65 V                   | 39                         | 39.8                   | 4.4                            |
| 5                                                   | *5530.00       | 96.9 PK                       |                   |                | 3.95 V                   | 47                         | 55.6                   | 41.3                           |
| 6                                                   | *5530.00       | 81.1 AV                       |                   |                | 3.95 V                   | 47                         | 39.8                   | 41.3                           |
| 7                                                   | #5725.00       | 57.3 PK                       | 74.0              | -16.7          | 3.87 V                   | 64                         | 52.4                   | 4.9                            |
| 8                                                   | #5725.00       | 44.3 AV                       | 54.0              | -9.7           | 3.87 V                   | 64                         | 39.4                   | 4.9                            |
| 9                                                   | 11060.00       | 58.5 PK                       | 74.0              | -15.5          | 3.01 V                   | 219                        | 41.8                   | 16.7                           |
| 10                                                  | 11060.00       | 46.4 AV                       | 54.0              | -7.6           | 3.01 V                   | 219                        | 29.7                   | 16.7                           |

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |                |          |              |
|-----------------|----------------|----------|--------------|
| CHANNEL         | TX Channel 155 | DETECTOR | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz   | FUNCTION | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | #5603.20       | 59.7 PK                       | 68.2              | -8.5           | 1.63 H                   | 206                        | 55.0                   | 4.7                            |
| 2                                                   | *5775.00       | 96.1 PK                       |                   |                | 1.63 H                   | 206                        | 54.2                   | 41.9                           |
| 3                                                   | *5775.00       | 81.7 AV                       |                   |                | 1.63 H                   | 206                        | 39.8                   | 41.9                           |
| 4                                                   | #5987.20       | 59.4 PK                       | 68.2              | -8.8           | 1.63 H                   | 206                        | 53.9                   | 5.5                            |
| 5                                                   | 11550.00       | 58.7 PK                       | 74.0              | -15.3          | 1.18 H                   | 347                        | 42.9                   | 15.8                           |
| 6                                                   | 11550.00       | 45.4 AV                       | 54.0              | -8.6           | 1.18 H                   | 347                        | 29.6                   | 15.8                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | #5608.80       | 58.3 PK                       | 68.2              | -9.9           | 2.33 V                   | 109                        | 53.6                   | 4.7                            |
| 2                                                   | *5775.00       | 100.5 PK                      |                   |                | 2.33 V                   | 109                        | 58.6                   | 41.9                           |
| 3                                                   | *5775.00       | 85.0 AV                       |                   |                | 2.33 V                   | 109                        | 43.1                   | 41.9                           |
| 4                                                   | #5950.40       | 59.0 PK                       | 68.2              | -9.2           | 2.33 V                   | 109                        | 53.6                   | 5.4                            |
| 5                                                   | 11550.00       | 58.4 PK                       | 74.0              | -15.6          | 3.85 V                   | 119                        | 42.6                   | 15.8                           |
| 6                                                   | 11550.00       | 45.4 AV                       | 54.0              | -8.6           | 3.85 V                   | 119                        | 29.6                   | 15.8                           |

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

# Below 1GHz Worst-Case Data

## Test Mode A

### 802.11a

|                 |               |                   |                 |
|-----------------|---------------|-------------------|-----------------|
| CHANNEL         | TX Channel 36 | DETECTOR FUNCTION | Quasi-Peak (QP) |
| FREQUENCY RANGE | 30MHz ~ 1GHz  |                   |                 |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|-----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | 60.07       | 28.5 QP                 | 40.0           | -11.5       | 1.50 H             | 238                  | 42.6             | -14.1                    |
| 2                                                   | 166.77      | 27.1 QP                 | 43.5           | -16.4       | 2.00 H             | 101                  | 40.8             | -13.7                    |
| 3                                                   | 254.07      | 38.3 QP                 | 46.0           | -7.7        | 1.50 H             | 131                  | 52.3             | -14.0                    |
| 4                                                   | 597.45      | 24.4 QP                 | 46.0           | -21.6       | 1.25 H             | 336                  | 32.0             | -7.6                     |
| 5                                                   | 746.83      | 36.7 QP                 | 46.0           | -9.3        | 1.00 H             | 312                  | 41.8             | -5.1                     |
| 6                                                   | 944.71      | 27.5 QP                 | 46.0           | -18.5       | 1.00 H             | 14                   | 29.6             | -2.1                     |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |             |                         |                |             |                    |                      |                  |                          |
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | 34.85       | 36.3 QP                 | 40.0           | -3.7        | 1.50 V             | 192                  | 51.4             | -15.1                    |
| 2                                                   | 153.19      | 25.2 QP                 | 43.5           | -18.3       | 1.50 V             | 187                  | 38.6             | -13.4                    |
| 3                                                   | 245.34      | 31.8 QP                 | 46.0           | -14.2       | 1.00 V             | 162                  | 46.2             | -14.4                    |
| 4                                                   | 447.10      | 24.4 QP                 | 46.0           | -21.6       | 1.25 V             | 256                  | 34.4             | -10.0                    |
| 5                                                   | 770.11      | 26.2 QP                 | 46.0           | -19.8       | 1.25 V             | 216                  | 30.8             | -4.6                     |
| 6                                                   | 951.50      | 28.4 QP                 | 46.0           | -17.6       | 1.00 V             | 304                  | 30.2             | -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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

### Test Mode B

|                 |               |                   |                 |
|-----------------|---------------|-------------------|-----------------|
| CHANNEL         | TX Channel 36 | DETECTOR FUNCTION | Quasi-Peak (QP) |
| FREQUENCY RANGE | 30MHz ~ 1GHz  |                   |                 |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|-----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | 30.97       | 35.2 QP                 | 40.0           | -4.8        | 1.25 H             | 215                  | 50.7             | -15.5                    |
| 2                                                   | 157.07      | 27.5 QP                 | 43.5           | -16.0       | 1.00 H             | 90                   | 40.8             | -13.3                    |
| 3                                                   | 251.16      | 39.0 QP                 | 46.0           | -7.0        | 1.50 H             | 120                  | 53.2             | -14.2                    |
| 4                                                   | 599.39      | 26.1 QP                 | 46.0           | -19.9       | 1.25 H             | 60                   | 33.6             | -7.5                     |
| 5                                                   | 745.86      | 36.5 QP                 | 46.0           | -9.5        | 1.50 H             | 318                  | 41.6             | -5.1                     |
| 6                                                   | 935.01      | 31.0 QP                 | 46.0           | -15.0       | 2.00 H             | 353                  | 33.3             | -2.3                     |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |             |                         |                |             |                    |                      |                  |                          |
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | 89.17       | 32.9 QP                 | 43.5           | -10.6       | 1.25 V             | 126                  | 52.0             | -19.1                    |
| 2                                                   | 242.43      | 31.7 QP                 | 46.0           | -14.3       | 1.50 V             | 156                  | 46.2             | -14.5                    |
| 3                                                   | 447.10      | 24.8 QP                 | 46.0           | -21.2       | 1.00 V             | 255                  | 34.8             | -10.0                    |
| 4                                                   | 644.01      | 22.5 QP                 | 46.0           | -23.5       | 1.25 V             | 142                  | 29.4             | -6.9                     |
| 5                                                   | 770.11      | 26.4 QP                 | 46.0           | -19.6       | 2.00 V             | 310                  | 31.0             | -4.6                     |
| 6                                                   | 939.86      | 31.7 QP                 | 46.0           | -14.3       | 1.50 V             | 245                  | 33.9             | -2.2                     |

#### 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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

## 4.2 Conducted Emission Measurement

### 4.2.1 Limits of Conducted Emission Measurement

| Frequency (MHz) | Conducted Limit (dBuV) |         |
|-----------------|------------------------|---------|
|                 | Quasi-peak             | Average |
| 0.15 - 0.5      | 66 - 56                | 56 - 46 |
| 0.50 - 5.0      | 56                     | 46      |
| 5.0 - 30.0      | 60                     | 50      |

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

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

### 4.2.2 Test Instruments

| Description & Manufacturer               | Model No.                | Serial No.     | Cal. Date     | Cal. Due      |
|------------------------------------------|--------------------------|----------------|---------------|---------------|
| Test Receiver<br>ROHDE & SCHWARZ         | ESCI                     | 100613         | Nov. 23, 2017 | Nov. 22, 2018 |
| RF signal cable (with 10dB PAD)<br>Woken | 5D-FB                    | Cable-cond1-01 | Sep. 05, 2017 | Sep. 04, 2018 |
| LISN<br>ROHDE & SCHWARZ<br>(EUT)         | ESH3-Z5                  | 835239/001     | Mar. 10, 2017 | Mar. 09, 2018 |
| LISN<br>ROHDE & SCHWARZ<br>(Peripheral)  | ESH3-Z5                  | 100311         | Aug. 15, 2017 | Aug. 14, 2018 |
| Software<br>ADT                          | BV ADT_Conc_<br>V7.3.7.3 | NA             | 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 HwaYa Shielded Room 1.

3. The VCCI Site Registration No. is C-2040.

### 4.2.3 Test Procedures

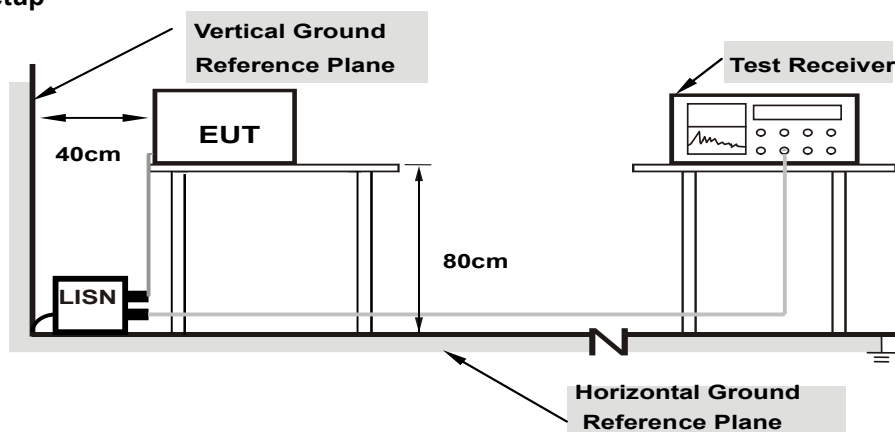
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

NOTE: The resolution bandwidth and video bandwidth of test receiver is 9kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15MHz-30MHz.

### 4.2.4 Deviation from Test Standard

No deviation.

### 4.2.5 Test Setup



Note: 1.Support units were connected to second LISN.

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

### 4.2.6 EUT Operating Conditions

Same as 4.1.6.

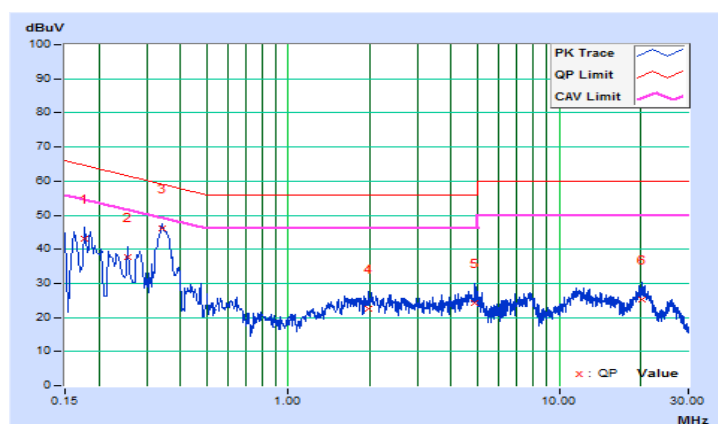
#### 4.2.7 Test Results

|           |          |                   |                                |
|-----------|----------|-------------------|--------------------------------|
| Phase     | Line (L) | Detector Function | Quasi-Peak (QP) / Average (AV) |
| Test Mode | A        |                   |                                |

| No       | Freq.<br>[MHz] | Corr.<br>Factor<br>(dB) | Reading Value<br>[dB (uV)] |              | Emission Level<br>[dB (uV)] |              | Limit<br>[dB (uV)] |              | Margin<br>(dB) |               |
|----------|----------------|-------------------------|----------------------------|--------------|-----------------------------|--------------|--------------------|--------------|----------------|---------------|
|          |                |                         |                            |              |                             |              |                    |              |                |               |
|          |                |                         | Q.P.                       | AV.          | Q.P.                        | AV.          | Q.P.               | AV.          | Q.P.           | AV.           |
| 1        | 0.17737        | 10.16                   | 33.05                      | 18.15        | 43.21                       | 28.31        | 64.61              | 54.61        | -21.40         | -26.30        |
| 2        | 0.25557        | 10.17                   | 27.45                      | 19.39        | 37.62                       | 29.56        | 61.57              | 51.57        | -23.95         | -22.01        |
| <b>3</b> | <b>0.34159</b> | <b>10.19</b>            | <b>35.88</b>               | <b>28.74</b> | <b>46.07</b>                | <b>38.93</b> | <b>59.16</b>       | <b>49.16</b> | <b>-13.09</b>  | <b>-10.23</b> |
| 4        | 1.98770        | 10.24                   | 12.25                      | 7.95         | 22.49                       | 18.19        | 56.00              | 46.00        | -33.51         | -27.81        |
| 5        | 4.87328        | 10.39                   | 13.85                      | 6.38         | 24.24                       | 16.77        | 56.00              | 46.00        | -31.76         | -29.23        |
| 6        | 20.13792       | 11.25                   | 13.95                      | 6.45         | 25.20                       | 17.70        | 60.00              | 50.00        | -34.80         | -32.30        |

#### REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

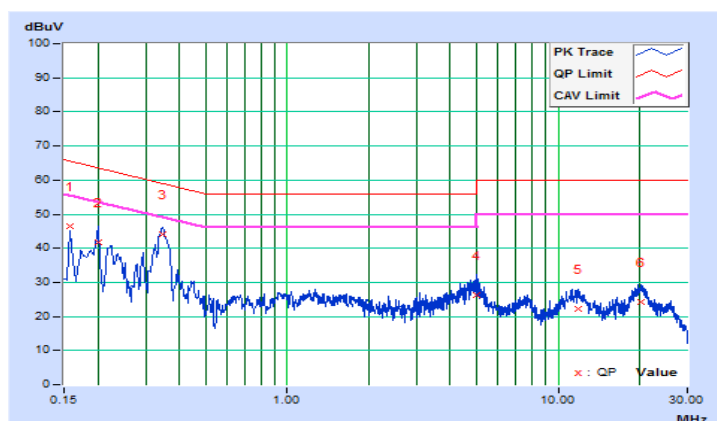


|           |             |                   |                                |
|-----------|-------------|-------------------|--------------------------------|
| Phase     | Neutral (N) | Detector Function | Quasi-Peak (QP) / Average (AV) |
| Test Mode | A           |                   |                                |

| No | Freq.<br>[MHz] | Corr.<br>Factor<br>(dB) | Reading Value<br>[dB (uV)] |       | Emission Level<br>[dB (uV)] |       | Limit<br>[dB (uV)] |       | Margin<br>(dB) |        |
|----|----------------|-------------------------|----------------------------|-------|-----------------------------|-------|--------------------|-------|----------------|--------|
|    |                |                         |                            |       |                             |       |                    |       |                |        |
|    |                |                         | Q.P.                       | AV.   | Q.P.                        | AV.   | Q.P.               | AV.   | Q.P.           | AV.    |
| 1  | 0.15782        | 10.15                   | 36.24                      | 22.91 | 46.39                       | 33.06 | 65.58              | 55.58 | -19.19         | -22.52 |
| 2  | 0.20031        | 10.16                   | 31.52                      | 19.20 | 41.68                       | 29.36 | 63.60              | 53.60 | -21.92         | -24.24 |
| 3  | 0.34560        | 10.19                   | 34.06                      | 25.76 | 44.25                       | 35.95 | 59.07              | 49.07 | -14.82         | -13.12 |
| 4  | 4.97103        | 10.38                   | 16.03                      | 7.86  | 26.41                       | 18.24 | 56.00              | 46.00 | -29.59         | -27.76 |
| 5  | 11.91519       | 10.66                   | 11.62                      | 5.52  | 22.28                       | 16.18 | 60.00              | 50.00 | -37.72         | -33.82 |
| 6  | 20.23567       | 11.02                   | 13.07                      | 5.91  | 24.09                       | 16.93 | 60.00              | 50.00 | -35.91         | -33.07 |

#### REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

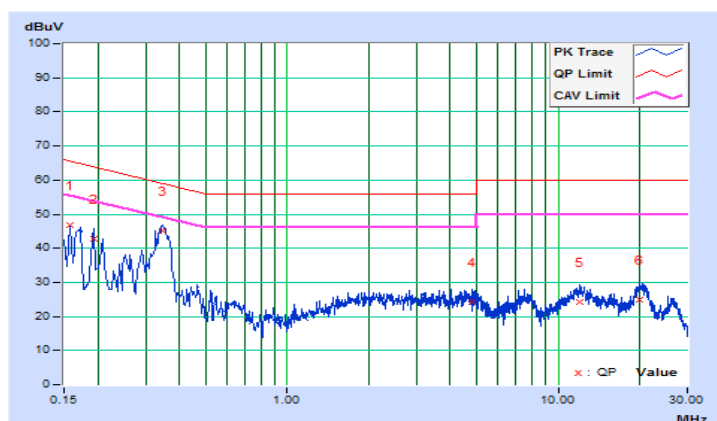


|           |          |                   |                                |
|-----------|----------|-------------------|--------------------------------|
| Phase     | Line (L) | Detector Function | Quasi-Peak (QP) / Average (AV) |
| Test Mode | B        |                   |                                |

| No | Freq.<br>[MHz] | Corr.<br>Factor<br>(dB) | Reading Value<br>[dB (uV)] |       | Emission Level<br>[dB (uV)] |       | Limit<br>[dB (uV)] |       | Margin<br>(dB) |        |
|----|----------------|-------------------------|----------------------------|-------|-----------------------------|-------|--------------------|-------|----------------|--------|
|    |                |                         |                            |       |                             |       |                    |       |                |        |
|    |                |                         | Q.P.                       | AV.   | Q.P.                        | AV.   | Q.P.               | AV.   | Q.P.           | AV.    |
| 1  | 0.15782        | 10.16                   | 36.52                      | 22.39 | 46.68                       | 32.55 | 65.58              | 55.58 | -18.90         | -23.03 |
| 2  | 0.19301        | 10.16                   | 32.59                      | 20.51 | 42.75                       | 30.67 | 63.91              | 53.91 | -21.16         | -23.24 |
| 3  | 0.34560        | 10.19                   | 34.92                      | 27.00 | 45.11                       | 37.19 | 59.07              | 49.07 | -13.96         | -11.88 |
| 4  | 4.83418        | 10.39                   | 13.92                      | 6.69  | 24.31                       | 17.08 | 56.00              | 46.00 | -31.69         | -28.92 |
| 5  | 11.97384       | 10.77                   | 13.38                      | 7.82  | 24.15                       | 18.59 | 60.00              | 50.00 | -35.85         | -31.41 |
| 6  | 19.93460       | 11.25                   | 13.73                      | 6.22  | 24.98                       | 17.47 | 60.00              | 50.00 | -35.02         | -32.53 |

#### REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

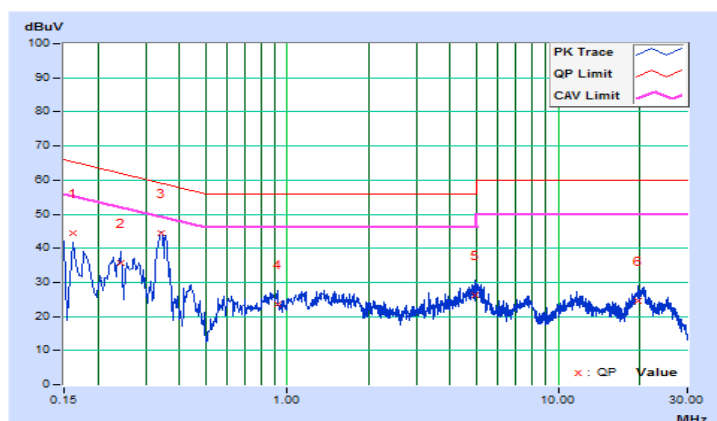


|           |             |                   |                                |
|-----------|-------------|-------------------|--------------------------------|
| Phase     | Neutral (N) | Detector Function | Quasi-Peak (QP) / Average (AV) |
| Test Mode | B           |                   |                                |

| No | Freq.<br>[MHz] | Corr.<br>Factor<br>(dB) | Reading Value<br>[dB (uV)] |       | Emission Level<br>[dB (uV)] |       | Limit<br>[dB (uV)] |       | Margin<br>(dB) |        |
|----|----------------|-------------------------|----------------------------|-------|-----------------------------|-------|--------------------|-------|----------------|--------|
|    |                |                         |                            |       |                             |       |                    |       |                |        |
|    |                |                         | Q.P.                       | AV.   | Q.P.                        | AV.   | Q.P.               | AV.   | Q.P.           | AV.    |
| 1  | 0.16181        | 10.15                   | 34.37                      | 21.86 | 44.52                       | 32.01 | 65.37              | 55.37 | -20.85         | -23.36 |
| 2  | 0.24384        | 10.17                   | 25.64                      | 15.62 | 35.81                       | 25.79 | 61.96              | 51.96 | -26.15         | -26.17 |
| 3  | 0.34198        | 10.19                   | 34.29                      | 27.22 | 44.48                       | 37.41 | 59.16              | 49.16 | -14.68         | -11.75 |
| 4  | 0.92027        | 10.20                   | 13.22                      | 8.63  | 23.42                       | 18.83 | 56.00              | 46.00 | -32.58         | -27.17 |
| 5  | 4.91238        | 10.38                   | 15.94                      | 8.37  | 26.32                       | 18.75 | 56.00              | 46.00 | -29.68         | -27.25 |
| 6  | 19.81339       | 11.01                   | 13.55                      | 6.95  | 24.56                       | 17.96 | 60.00              | 50.00 | -35.44         | -32.04 |

#### REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.



### 4.3 Transmit Power Measurement

#### 4.3.1 Limits of Transmit Power Measurement

| Operation Band | EUT Category |                                   | LIMIT                                                                                                                       |
|----------------|--------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| U-NII-1        |              | Outdoor Access Point              | 1 Watt (30 dBm)<br>(Max. e.i.r.p $\leq$ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon) |
|                |              | Fixed point-to-point Access Point | 1 Watt (30 dBm)                                                                                                             |
|                |              | Indoor Access Point               | 1 Watt (30 dBm)                                                                                                             |
|                | √            | Mobile and Portable client device | 250mW (24 dBm)                                                                                                              |
| U-NII-2A       | √            |                                   | 250mW (24 dBm) or 11 dBm+10 log B*                                                                                          |
| U-NII-2C       | √            |                                   | 250mW (24 dBm) or 11 dBm+10 log B*                                                                                          |
| U-NII-3        | √            |                                   | 1 Watt (30 dBm)                                                                                                             |

\*B is the 26 dB emission bandwidth in megahertz

Per KDB 662911 Method of conducted output power measurement on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for  $N_{ANT} \leq 4$ ;

Array Gain = 0 dB (i.e., no array gain) for channel widths  $\geq 40$  MHz for any  $N_{ANT}$ ;

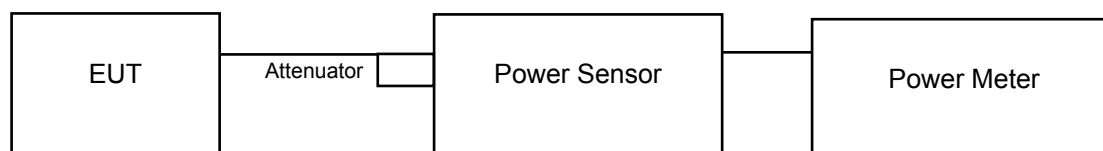
Array Gain = 5 log( $N_{ANT}/N_{SS}$ ) dB or 3 dB, whichever is less for 20-MHz channel widths with  $N_{ANT} \geq 5$ .

For power measurements on all other devices: Array Gain = 10 log( $N_{ANT}/N_{SS}$ ) dB.

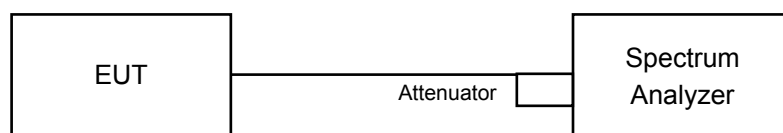
#### 4.3.2 Test Setup

For Power Output

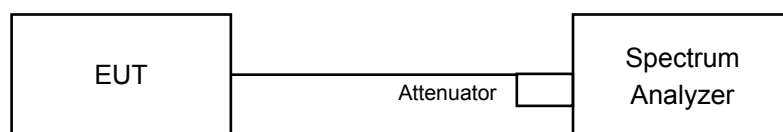
802.11a, 802.11n (HT20), 802.11n (HT40)



802.11ac (VHT80)



For 26dB and Occupied Bandwidth



#### 4.3.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

#### 4.3.4 Test Procedure

##### For Average Power Measurement

##### For 802.11a, 802.11n (HT20), 802.11n (HT40)

Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

##### For 802.11ac (VHT80)

- Set span to encompass the entire 26 dB EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal.
- Set sweep trigger to "free run".
- Set RBW = 1 MHz
- Set VBW  $\geq$  3 MHz
- Number of points in sweep  $\geq$  2 Span / RBW
- Sweep time  $\leq$  (number of points in sweep) \* T
- Using emission bandwidth to determine the frequency span for integration the channel bandwidth.
- Detector = RMS
- Trace mode = max hold
- Allow max hold to run for at least 60 seconds, or longer as needed to allow the trace to stabilize.
- Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument's band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at 1 MHz intervals extending across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the spectrum.

##### For 26dB Bandwidth

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

##### For Occupied Bandwidth

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to Sampling. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 % of the total mean power of a given emission.

#### 4.3.5 Deviation from Test Standard

No deviation.

#### 4.3.6 EUT Operating Conditions

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

#### 4.3.7 Test Result

Power Output:

802.11a

| Chan. | Freq. (MHz) | Conducted Power (mW) | Conducted Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|-------------|----------------------|-----------------------|-------------------|-------------|
| 36    | 5180        | 96.828               | 19.86                 | 24.00             | Pass        |
| 40    | 5200        | 90.365               | 19.56                 | 24.00             | Pass        |
| 48    | 5240        | 88.716               | 19.48                 | 24.00             | Pass        |
| 52    | 5260        | 101.625              | 20.07                 | 24.00             | Pass        |
| 60    | 5300        | 102.094              | 20.09                 | 24.00             | Pass        |
| 64    | 5320        | <b>108.143</b>       | 20.34                 | 24.00             | Pass        |
| 100   | 5500        | 102.329              | 20.10                 | 24.00             | Pass        |
| 116   | 5580        | 107.895              | 20.33                 | 24.00             | Pass        |
| 140   | 5700        | 114.288              | 20.58                 | 24.00             | Pass        |
| 149   | 5745        | <b>111.173</b>       | 20.46                 | 30.00             | Pass        |
| 157   | 5785        | 107.895              | 20.33                 | 30.00             | Pass        |
| 165   | 5825        | 104.472              | 20.19                 | 30.00             | Pass        |

Note:

For U-NII-2A, U-NII-2C Band:

1.  $11\text{dBm} + 10\log(33.78) = 26.29\text{ dBm} > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(30.43) = 25.83\text{ dBm} > 24\text{dBm}$
3.  $11\text{dBm} + 10\log(31.81) = 26.03\text{ dBm} > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(32.68) = 26.14\text{ dBm} > 24\text{dBm}$
5.  $11\text{dBm} + 10\log(33.85) = 26.30\text{ dBm} > 24\text{dBm}$
6.  $11\text{dBm} + 10\log(34.12) = 26.33\text{ dBm} > 24\text{dBm}$

## 802.11n (HT20)

| Chan. | Freq. (MHz) | Conducted Power (mW) | Conducted Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|-------------|----------------------|-----------------------|-------------------|-------------|
| 36    | 5180        | 89.125               | 19.50                 | 24.00             | Pass        |
| 40    | 5200        | 90.365               | 19.56                 | 24.00             | Pass        |
| 48    | 5240        | <b>101.859</b>       | 20.08                 | 24.00             | Pass        |
| 52    | 5260        | 100.925              | 20.04                 | 24.00             | Pass        |
| 60    | 5300        | 104.472              | 20.19                 | 24.00             | Pass        |
| 64    | 5320        | 101.391              | 20.06                 | 24.00             | Pass        |
| 100   | 5500        | 103.039              | 20.13                 | 24.00             | Pass        |
| 116   | 5580        | 107.895              | 20.33                 | 24.00             | Pass        |
| 140   | 5700        | <b>117.761</b>       | 20.71                 | 24.00             | Pass        |
| 149   | 5745        | 110.408              | 20.43                 | 30.00             | Pass        |
| 157   | 5785        | 105.682              | 20.24                 | 30.00             | Pass        |
| 165   | 5825        | 100.231              | 20.01                 | 30.00             | Pass        |

Note:

For U-NII-2A, U-NII-2C Band:

1.  $11\text{dBm} + 10\log(36.17) = 26.58\text{ dBm} > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(33.30) = 26.22\text{ dBm} > 24\text{dBm}$
3.  $11\text{dBm} + 10\log(31.98) = 26.05\text{ dBm} > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(30.55) = 25.85\text{ dBm} > 24\text{dBm}$
5.  $11\text{dBm} + 10\log(33.41) = 26.24\text{ dBm} > 24\text{dBm}$
6.  $11\text{dBm} + 10\log(32.69) = 26.14\text{ dBm} > 24\text{dBm}$

#### 802.11n (HT40)

| Chan. | Freq. (MHz) | Conducted Power (mW) | Conducted Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|-------------|----------------------|-----------------------|-------------------|-------------|
| 38    | 5190        | 36.898               | 15.67                 | 24.00             | Pass        |
| 46    | 5230        | 66.222               | 18.21                 | 24.00             | Pass        |
| 54    | 5270        | 66.988               | 18.26                 | 24.00             | Pass        |
| 62    | 5310        | 39.994               | 16.02                 | 24.00             | Pass        |
| 102   | 5510        | 50.582               | 17.04                 | 24.00             | Pass        |
| 110   | 5550        | 80.910               | 19.08                 | 24.00             | Pass        |
| 134   | 5670        | 77.804               | 18.91                 | 24.00             | Pass        |
| 151   | 5755        | 77.625               | 18.90                 | 30.00             | Pass        |
| 159   | 5795        | 67.453               | 18.29                 | 30.00             | Pass        |

Note:

For U-NII-2A, U-NII-2C Band:

1.  $11\text{dBm} + 10\log(58.19) = 28.65\text{ dBm} > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(45.12) = 27.54\text{ dBm} > 24\text{dBm}$
3.  $11\text{dBm} + 10\log(46.03) = 27.63\text{ dBm} > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(50.32) = 28.02\text{ dBm} > 24\text{dBm}$
5.  $11\text{dBm} + 10\log(56.49) = 28.52\text{ dBm} > 24\text{dBm}$

#### 802.11ac (VHT80)

| Chan. | Freq. (MHz) | Conducted Power (mW) | Conducted Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|-------------|----------------------|-----------------------|-------------------|-------------|
| 42    | 5210        | 32.211               | 15.08                 | 24.00             | Pass        |
| 58    | 5290        | 28.774               | 14.59                 | 24.00             | Pass        |
| 106   | 5530        | 30.130               | 14.79                 | 24.00             | Pass        |
| 155   | 5775        | 34.594               | 15.39                 | 30.00             | Pass        |

Note:

For U-NII-2A, U-NII-2C Band:

1.  $11\text{dBm} + 10\log(85.01) = 30.29\text{ dBm} > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(84.12) = 30.25\text{ dBm} > 24\text{dBm}$

#### 26dB Bandwidth:

##### 802.11a

| Channel | Frequency (MHz) | 26dBc Bandwidth (MHz) |
|---------|-----------------|-----------------------|
| 36      | 5180            | 31.54                 |
| 40      | 5200            | 28.02                 |
| 48      | 5240            | 34.03                 |
| 52      | 5260            | 33.78                 |
| 60      | 5300            | 30.43                 |
| 64      | 5320            | 31.81                 |
| 100     | 5500            | 32.68                 |
| 116     | 5580            | 33.85                 |
| 140     | 5700            | 34.12                 |

##### 802.11n (HT20)

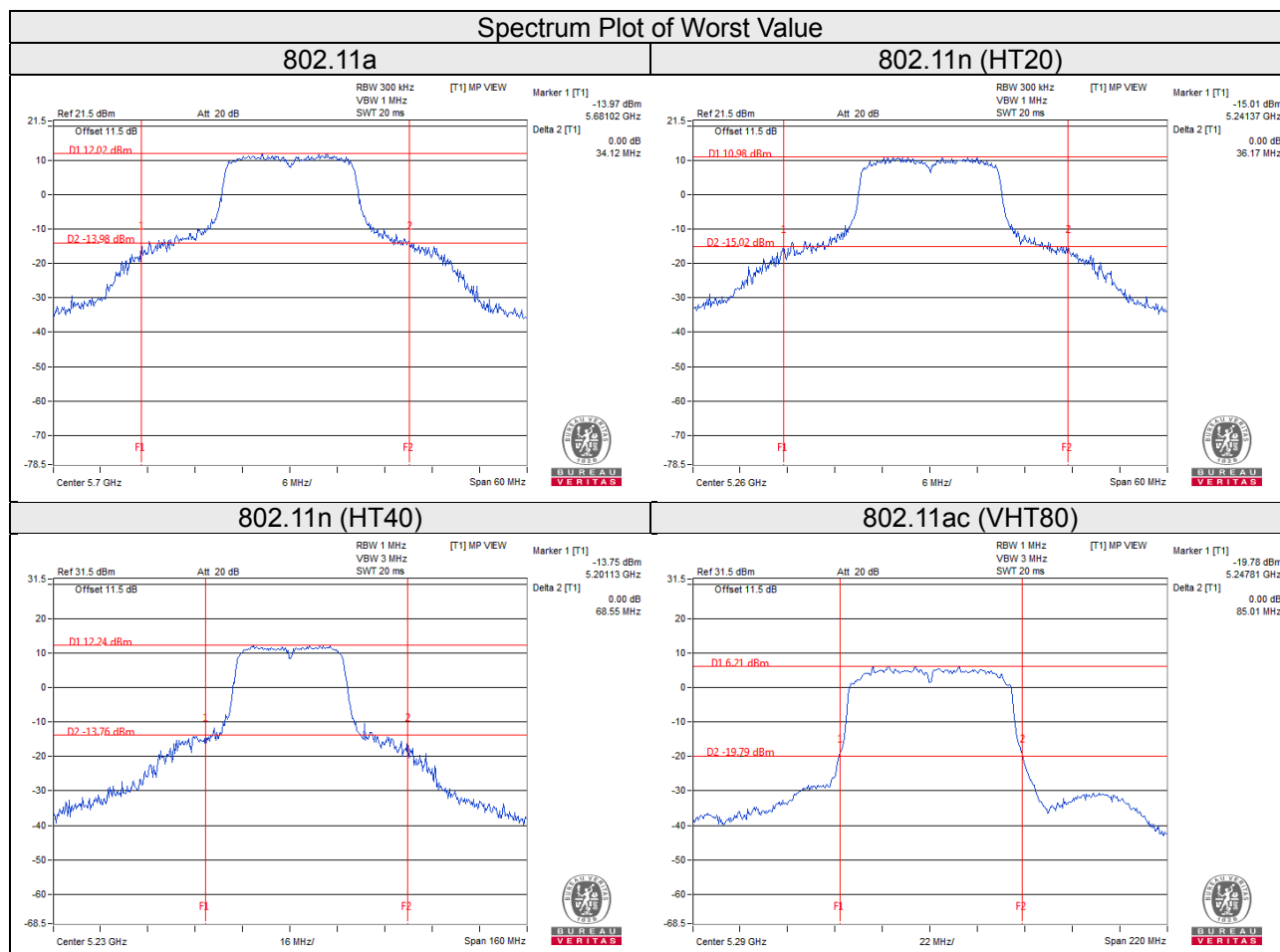
| Channel | Frequency (MHz) | 26dBc Bandwidth (MHz) |
|---------|-----------------|-----------------------|
| 36      | 5180            | 34.13                 |
| 40      | 5200            | 30.82                 |
| 48      | 5240            | 31.85                 |
| 52      | 5260            | 36.17                 |
| 60      | 5300            | 33.30                 |
| 64      | 5320            | 31.98                 |
| 100     | 5500            | 30.55                 |
| 116     | 5580            | 33.41                 |
| 140     | 5700            | 32.69                 |

##### 802.11n (HT40)

| Channel | Frequency (MHz) | 26dBc Bandwidth (MHz) |
|---------|-----------------|-----------------------|
| 38      | 5190            | 45.15                 |
| 46      | 5230            | 68.55                 |
| 54      | 5270            | 58.19                 |
| 62      | 5310            | 45.12                 |
| 102     | 5510            | 46.03                 |
| 110     | 5550            | 50.32                 |
| 134     | 5670            | 56.49                 |

# 802.11ac (VHT80)

| Channel | Frequency (MHz) | 26dBc Bandwidth (MHz) |
|---------|-----------------|-----------------------|
| 42      | 5210            | 84.69                 |
| 58      | 5290            | 85.01                 |
| 106     | 5530            | 84.12                 |



# EUT Maximum Conducted Power

## 802.11a

| Frequency Band (MHz) | Max. Power        |                    |
|----------------------|-------------------|--------------------|
|                      | Output Power (mW) | Output Power (dBm) |
| 5250~5350            | 108.143           | 20.34              |
| 5470~5725            | 114.288           | 20.58              |

Note: Manufacturer provides Transmit Power Control description to meet this requirement.

## 802.11n (HT20)

| Frequency Band (MHz) | Max. Power        |                    |
|----------------------|-------------------|--------------------|
|                      | Output Power (mW) | Output Power (dBm) |
| 5250~5350            | 104.472           | 20.19              |
| 5470~5725            | 117.761           | 20.71              |

Note: Manufacturer provides Transmit Power Control description to meet this requirement.

## 802.11n (HT40)

| Frequency Band (MHz) | Max. Power        |                    |
|----------------------|-------------------|--------------------|
|                      | Output Power (mW) | Output Power (dBm) |
| 5250~5350            | 66.988            | 18.26              |
| 5470~5725            | 80.910            | 19.08              |

Note: Manufacturer provides Transmit Power Control description to meet this requirement.

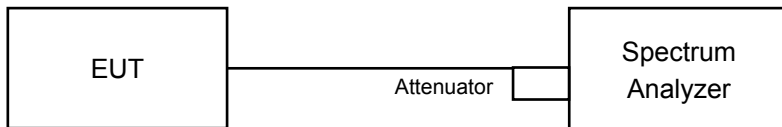
## 802.11ac (VHT80)

| Frequency Band (MHz) | Max. Power        |                    |
|----------------------|-------------------|--------------------|
|                      | Output Power (mW) | Output Power (dBm) |
| 5250~5350            | 28.774            | 14.59              |
| 5470~5725            | 30.130            | 14.79              |

Note: Manufacturer provides Transmit Power Control description to meet this requirement.

## 4.4 Occupied Bandwidth Measurement

### 4.4.1 Test Setup



### 4.4.2 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

### 4.4.3 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to sampling. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 %of the total mean power of a given emission.

#### 4.4.4 Test Result

##### 802.11a

| Channel | Frequency (MHz) | Occupied Bandwidth (MHz) |
|---------|-----------------|--------------------------|
| 36      | 5180            | 16.92                    |
| 40      | 5200            | 17.04                    |
| 48      | 5240            | 17.04                    |
| 52      | 5260            | 17.16                    |
| 60      | 5300            | 17.16                    |
| 64      | 5320            | 17.16                    |
| 100     | 5500            | 17.04                    |
| 116     | 5580            | 17.16                    |
| 140     | 5700            | 17.16                    |
| 149     | 5745            | 17.16                    |
| 157     | 5785            | 17.04                    |
| 165     | 5825            | 16.92                    |

##### 802.11n (HT20)

| Channel | Frequency (MHz) | Occupied Bandwidth (MHz) |
|---------|-----------------|--------------------------|
| 36      | 5180            | 18.00                    |
| 40      | 5200            | 18.00                    |
| 48      | 5240            | 18.00                    |
| 52      | 5260            | 18.00                    |
| 60      | 5300            | 17.04                    |
| 64      | 5320            | 18.00                    |
| 100     | 5500            | 18.00                    |
| 116     | 5580            | 17.88                    |
| 140     | 5700            | 18.12                    |
| 149     | 5745            | 17.88                    |
| 157     | 5785            | 18.00                    |
| 165     | 5825            | 17.88                    |

#### 802.11n (HT40)

| Channel | Frequency (MHz) | Occupied Bandwidth (MHz) |
|---------|-----------------|--------------------------|
| 38      | 5190            | 36.48                    |
| 46      | 5230            | 36.84                    |
| 54      | 5270            | 36.72                    |
| 62      | 5310            | 36.60                    |
| 102     | 5510            | 36.48                    |
| 110     | 5550            | 36.84                    |
| 134     | 5670            | 36.84                    |
| 151     | 5755            | 36.84                    |
| 159     | 5795            | 36.96                    |

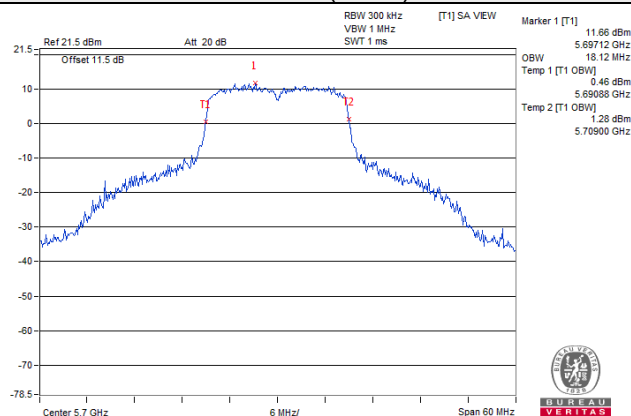
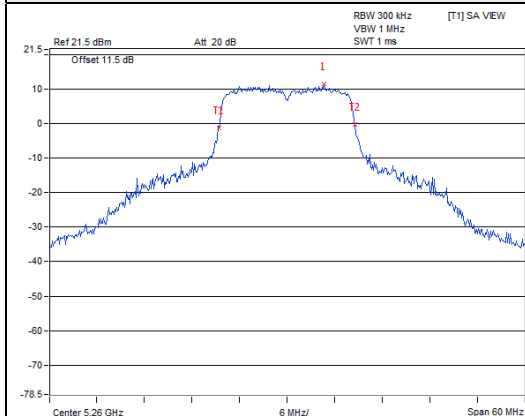
#### 802.11ac (VHT80)

| Channel | Frequency (MHz) | Occupied Bandwidth (MHz) |
|---------|-----------------|--------------------------|
| 42      | 5210            | 74.88                    |
| 58      | 5290            | 74.88                    |
| 106     | 5530            | 74.64                    |
| 155     | 5775            | 74.64                    |

## Spectrum Plot of Worst Value

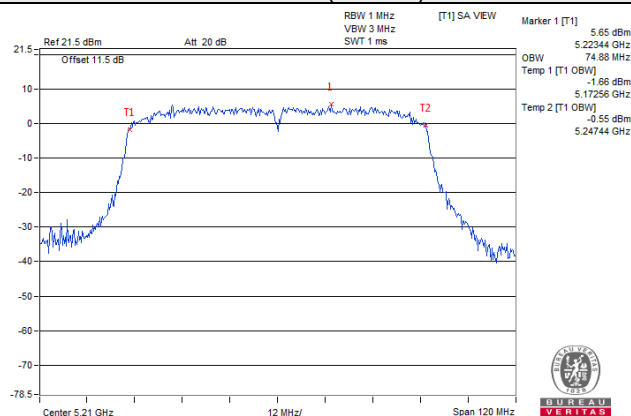
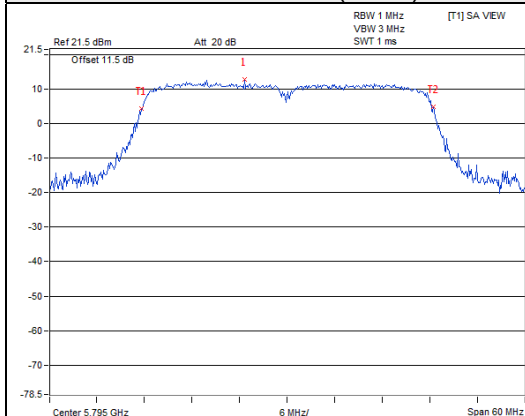
802.11a

802.11n (HT20)



802.11n (HT40)

802.11ac (VHT80)

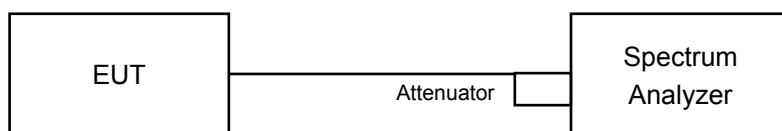


## 4.5 Peak Power Spectral Density Measurement

### 4.5.1 Limits of Peak Power Spectral Density Measurement

| Operation Band | EUT Category |                                   | LIMIT         |
|----------------|--------------|-----------------------------------|---------------|
| U-NII-1        |              | Outdoor Access Point              | 17dBm/ MHz    |
|                |              | Fixed point-to-point Access Point |               |
|                |              | Indoor Access Point               |               |
|                | √            | Mobile and Portable client device | 11dBm/ MHz    |
| U-NII-2A       | √            |                                   | 11dBm/ MHz    |
| U-NII-2C       | √            |                                   | 11dBm/ MHz    |
| U-NII-3        | √            |                                   | 30dBm/ 500kHz |

### 4.5.2 Test Setup



### 4.5.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

#### 4.5.4 Test Procedures

##### For U-NII-1, U-NII-2A, U-NII-2C band:

Duty cycle of test signal is  $\geq 98\%$

Using method SA-1

- 1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
- 2) Set RBW = 1MHz, Set VBW  $\geq 3$  MHz, Detector = RMS
- 3) Set Channel power measure = 1MHz
- 4) Sweep time = auto, trigger set to "free run".
- 5) Trace average at least 100 traces in power averaging mode.
- 6) Record the max value

Duty cycle of test signal is  $< 98\%$

Using method SA-2

- 1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
- 2) Set RBW = 1MHz, Set VBW  $\geq 3$  MHz, Detector = RMS
- 3) Set Channel power measure = 1MHz
- 4) Sweep time = auto, trigger set to "free run".
- 5) Trace average at least 100 traces in power averaging mode.
- 6) Record the max value and add  $10 \log (1/\text{duty cycle})$

##### For U-NII-3 band:

Duty cycle of test signal is  $\geq 98\%$

Using method SA-1

- 1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
- 2) Set RBW = 300 kHz, Set VBW  $\geq 1$  MHz, Detector = RMS.
- 3) Use the peak marker function to determine the maximum power level in any 300 kHz band segment within the fundamental EBW.
- 4) Scale the observed power level to an equivalent value in 500 kHz by adjusting (reducing) the measured power by a bandwidth correction factor (BWCF) where  $\text{BWCF} = 10\log(500 \text{ kHz} / 300 \text{ kHz})$ .
- 5) Sweep time = auto, trigger set to "free run".
- 6) Trace average at least 100 traces in power averaging mode.
- 7) Record the max value.

Duty cycle of test signal is  $< 98\%$

- 1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
- 2) Set RBW = 300 kHz, Set VBW  $\geq 1$  MHz, Detector = RMS
- 3) Use the peak marker function to determine the maximum power level in any 300 kHz band segment within the fundamental EBW.
- 4) Scale the observed power level to an equivalent value in 500 kHz by adjusting (reducing) the measured power by a bandwidth correction factor (BWCF) where  $\text{BWCF} = 10\log(500\text{kHz}/300\text{kHz})$
- 5) Sweep time = auto, trigger set to "free run".
- 6) Trace average at least 100 traces in power averaging mode.
- 7) Record the max value and add  $10 \log (1/\text{duty cycle})$

#### 4.5.5 Deviation from Test Standard

No deviation.

#### 4.5.6 EUT Operating Conditions

Same as 4.3.6.

#### 4.5.7 Test Results

For U-NII-1, U-NII-2A, U-NII-2C band

802.11a

| Chan. | Freq. (MHz) | PSD (dBm/MHz) | Max. Limit (dBm/MHz) | Pass / Fail |
|-------|-------------|---------------|----------------------|-------------|
| 36    | 5180        | 6.73          | 11                   | Pass        |
| 40    | 5200        | 6.68          | 11                   | Pass        |
| 48    | 5240        | 6.82          | 11                   | Pass        |
| 52    | 5260        | 6.75          | 11                   | Pass        |
| 60    | 5300        | 6.74          | 11                   | Pass        |
| 64    | 5320        | 6.88          | 11                   | Pass        |
| 100   | 5500        | 7.07          | 11                   | Pass        |
| 116   | 5580        | 7.25          | 11                   | Pass        |
| 140   | 5700        | 7.38          | 11                   | Pass        |

802.11n (HT20)

| Chan. | Freq. (MHz) | PSD (dBm/MHz) | Max. Limit (dBm/MHz) | Pass / Fail |
|-------|-------------|---------------|----------------------|-------------|
| 36    | 5180        | 6.39          | 11                   | Pass        |
| 40    | 5200        | 6.45          | 11                   | Pass        |
| 48    | 5240        | 6.42          | 11                   | Pass        |
| 52    | 5260        | 6.48          | 11                   | Pass        |
| 60    | 5300        | 6.85          | 11                   | Pass        |
| 64    | 5320        | 6.59          | 11                   | Pass        |
| 100   | 5500        | 6.82          | 11                   | Pass        |
| 116   | 5580        | 6.99          | 11                   | Pass        |
| 140   | 5700        | 7.19          | 11                   | Pass        |

#### 802.11n (HT40)

| Chan. | Freq.<br>(MHz) | PSD without<br>Duty Factor<br>(dBm/MHz) | Duty Factor | PSD with<br>Duty Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass / Fail |
|-------|----------------|-----------------------------------------|-------------|--------------------------------------|-------------------------|-------------|
| 38    | 5190           | -1.20                                   | 0.10        | -1.10                                | 11                      | Pass        |
| 46    | 5230           | 1.61                                    | 0.10        | 1.71                                 | 11                      | Pass        |
| 54    | 5270           | 1.62                                    | 0.10        | 1.72                                 | 11                      | Pass        |
| 62    | 5310           | -0.38                                   | 0.10        | -0.28                                | 11                      | Pass        |
| 102   | 5510           | -0.49                                   | 0.10        | -0.39                                | 11                      | Pass        |
| 110   | 5550           | 2.04                                    | 0.10        | 2.14                                 | 11                      | Pass        |
| 134   | 5670           | 2.33                                    | 0.10        | 2.43                                 | 11                      | Pass        |

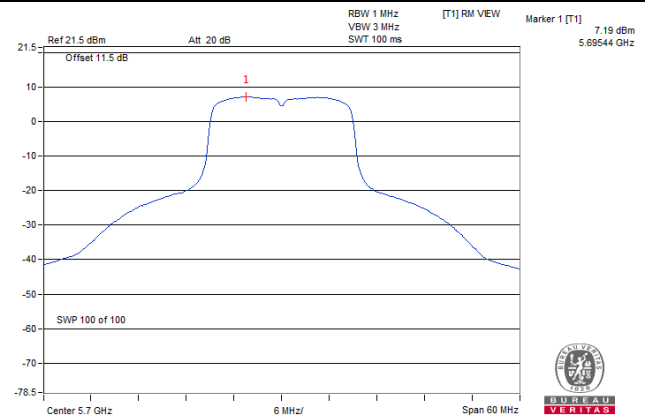
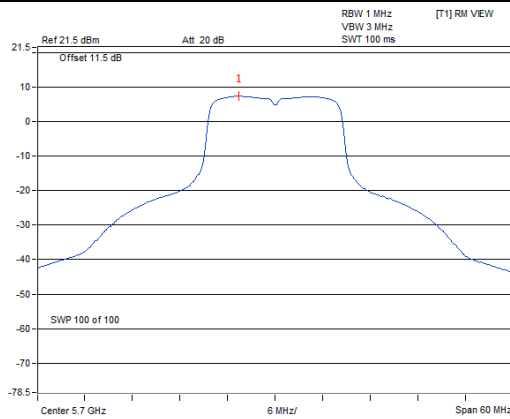
#### 802.11ac (VHT80)

| Chan. | Freq.<br>(MHz) | PSD without<br>Duty Factor<br>(dBm/MHz) | Duty Factor | PSD with<br>Duty Factor<br>(dBm/MHz) | Max. Limit<br>(dBm/MHz) | Pass / Fail |
|-------|----------------|-----------------------------------------|-------------|--------------------------------------|-------------------------|-------------|
| 42    | 5210           | -5.01                                   | 0.17        | -4.84                                | 11                      | Pass        |
| 58    | 5290           | -4.26                                   | 0.17        | -4.09                                | 11                      | Pass        |
| 106   | 5530           | -4.17                                   | 0.17        | -4.00                                | 11                      | Pass        |

## Spectrum Plot of Worst Value

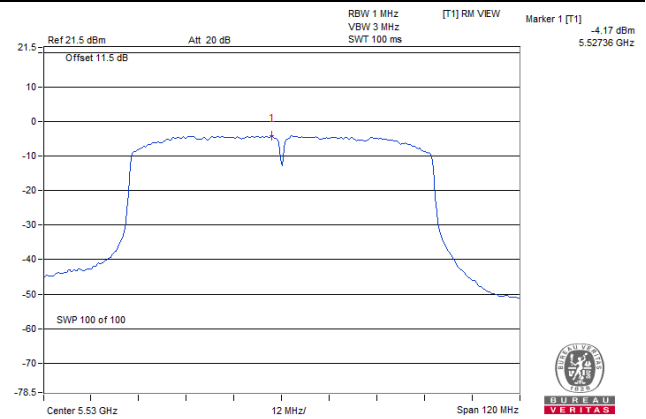
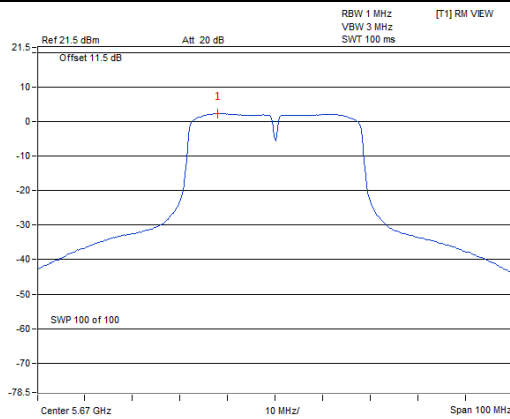
802.11a / CH 140

802.11n (HT20) / CH 140



802.11n (HT40) / CH 134

802.11ac (VHT80) / CH 106



For U-NII-3 band:

802.11a

| Chan. | Freq. (MHz) | PSD          |              | Limit (dBm /500kHz) | Pass / Fail |
|-------|-------------|--------------|--------------|---------------------|-------------|
|       |             | (dBm/300kHz) | (dBm/500kHz) |                     |             |
| 149   | 5745        | -1.15        | 1.07         | 30.00               | Pass        |
| 157   | 5785        | -1.36        | 0.86         | 30.00               | Pass        |
| 165   | 5825        | -1.39        | 0.83         | 30.00               | Pass        |

802.11n (HT20)

| Chan. | Freq. (MHz) | PSD          |              | Limit (dBm /500kHz) | Pass / Fail |
|-------|-------------|--------------|--------------|---------------------|-------------|
|       |             | (dBm/300kHz) | (dBm/500kHz) |                     |             |
| 149   | 5745        | -1.43        | 0.79         | 30.00               | Pass        |
| 157   | 5785        | -1.60        | 0.62         | 30.00               | Pass        |
| 165   | 5825        | -1.70        | 0.52         | 30.00               | Pass        |

802.11n (HT40)

| Chan. | Freq. (MHz) | PSD          |              | Duty factor | Total PSD (dBm /500kHz) | Limit (dBm /500kHz) | Pass / Fail |
|-------|-------------|--------------|--------------|-------------|-------------------------|---------------------|-------------|
|       |             | (dBm/300kHz) | (dBm/500kHz) |             |                         |                     |             |
| 151   | 5755        | -6.67        | -4.45        | 0.10        | -4.35                   | 30.00               | Pass        |
| 159   | 5795        | -6.87        | -4.65        | 0.10        | -4.55                   | 30.00               | Pass        |

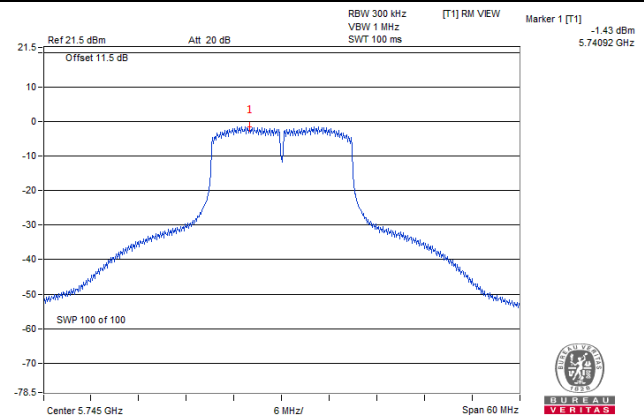
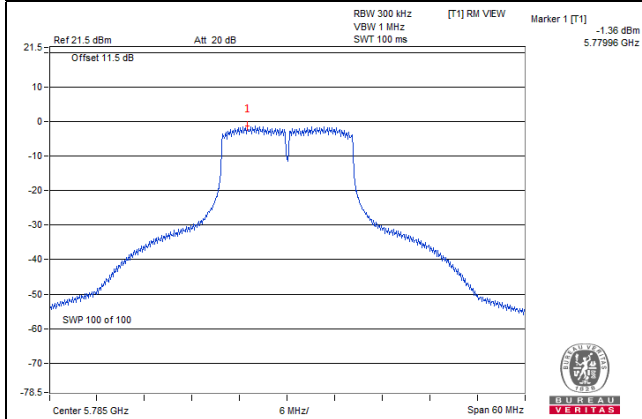
802.11ac (VHT80)

| Chan. | Freq. (MHz) | PSD          |              | Duty factor | Total PSD (dBm /500kHz) | Limit (dBm /500kHz) | Pass / Fail |
|-------|-------------|--------------|--------------|-------------|-------------------------|---------------------|-------------|
|       |             | (dBm/300kHz) | (dBm/500kHz) |             |                         |                     |             |
| 151   | 5755        | -12.65       | -10.43       | 0.17        | -10.26                  | 30.00               | Pass        |

## Spectrum Plot of Worst Value

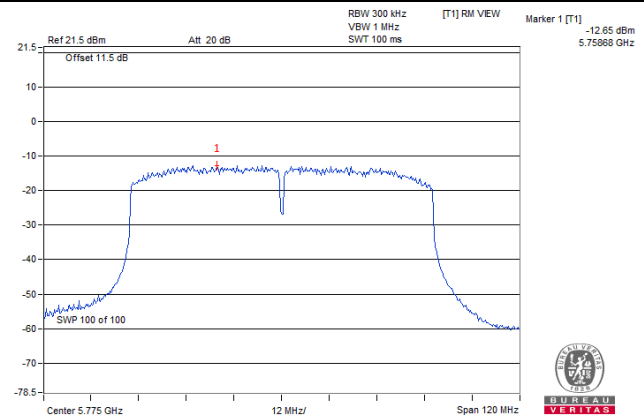
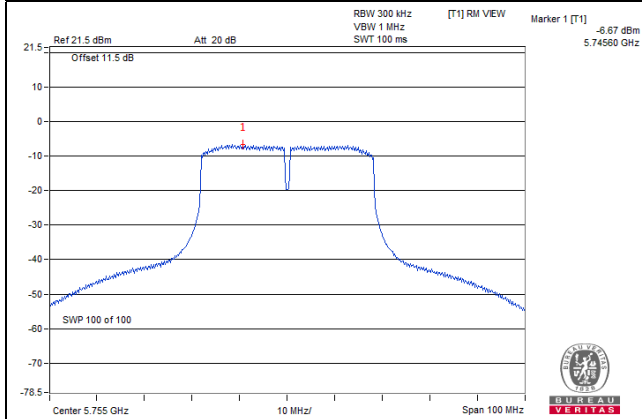
**802.11a**

**802.11n (HT20)**



**802.11n (HT40)**

**802.11ac (VHT80)**

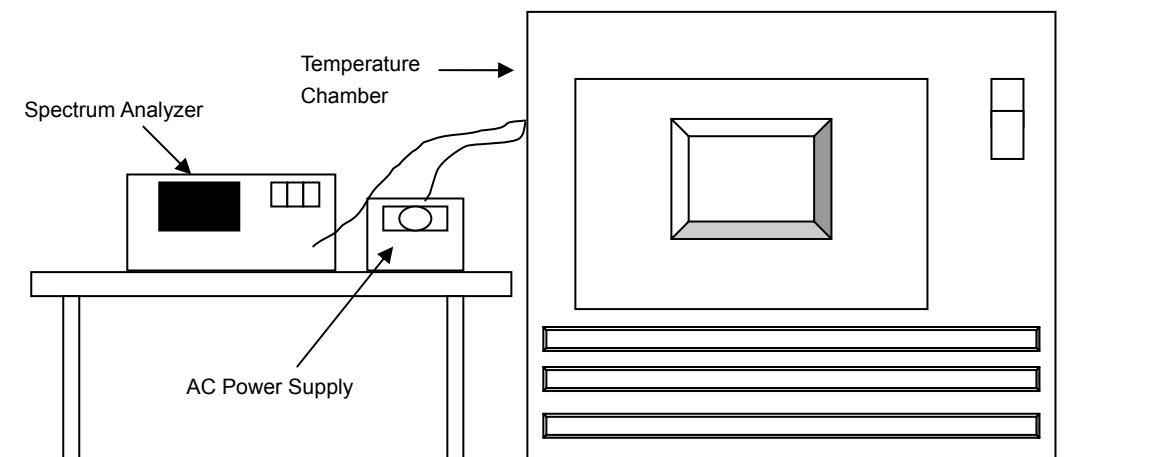


## 4.6 Frequency Stability

### 4.6.1 Limits of Frequency Stability Measurement

The frequency of the carrier signal shall be maintained within band of operation

### 4.6.2 Test Setup



### 4.6.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

### 4.6.4 Test Procedure

- The EUT was placed inside the environmental test chamber and powered by nominal AC voltage.
- Turn the EUT on and couple its output to a spectrum analyzer.
- Turn the EUT off and set the chamber to the highest temperature specified.
- Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.
- Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.
- The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

### 4.6.5 Deviation from Test Standard

No deviation.

### 4.6.6 EUT Operating Condition

Set the EUT transmit at un-modulation mode to test frequency stability.

#### 4.6.7 Test Results

| Frequency Stability Versus Temp. |                          |                                |                           |                                |                           |                                |                           |                                |                           |
|----------------------------------|--------------------------|--------------------------------|---------------------------|--------------------------------|---------------------------|--------------------------------|---------------------------|--------------------------------|---------------------------|
| Operating Frequency: 5180MHz     |                          |                                |                           |                                |                           |                                |                           |                                |                           |
| Temp.<br>(°C)                    | Power<br>Supply<br>(Vac) | 0 Minute                       |                           | 2 Minute                       |                           | 5 Minute                       |                           | 10 Minute                      |                           |
|                                  |                          | Measured<br>Frequency<br>(MHz) | Frequency<br>Drift<br>(%) | Measured<br>Frequency<br>(MHz) | Frequency<br>Drift<br>(%) | Measured<br>Frequency<br>(MHz) | Frequency<br>Drift<br>(%) | Measured<br>Frequency<br>(MHz) | Frequency<br>Drift<br>(%) |
| 40                               | 120                      | 5180.0232                      | 0.00045                   | 5180.0254                      | 0.00049                   | 5180.0232                      | 0.00045                   | 5180.0213                      | 0.00041                   |
| 30                               | 120                      | 5179.9913                      | -0.00017                  | 5179.9923                      | -0.00015                  | 5179.9923                      | -0.00015                  | 5179.9947                      | -0.00010                  |
| 20                               | 120                      | 5179.9945                      | -0.00011                  | 5179.9943                      | -0.00011                  | 5179.9925                      | -0.00014                  | 5179.9921                      | -0.00015                  |
| 10                               | 120                      | 5179.9872                      | -0.00025                  | 5179.9873                      | -0.00025                  | 5179.9882                      | -0.00023                  | 5179.9857                      | -0.00028                  |
| 0                                | 120                      | 5180.0015                      | 0.00003                   | 5180.0005                      | 0.00001                   | 5179.9996                      | -0.00001                  | 5179.9982                      | -0.00003                  |

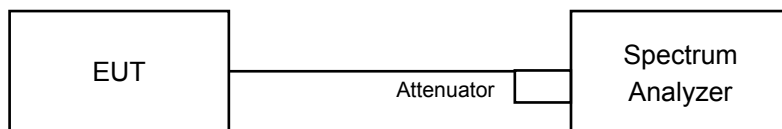
| Frequency Stability Versus Voltage |                          |                                |                           |                                |                           |                                |                           |                                |                           |
|------------------------------------|--------------------------|--------------------------------|---------------------------|--------------------------------|---------------------------|--------------------------------|---------------------------|--------------------------------|---------------------------|
| Operating Frequency: 5180MHz       |                          |                                |                           |                                |                           |                                |                           |                                |                           |
| Temp.<br>(°C)                      | Power<br>Supply<br>(Vac) | 0 Minute                       |                           | 2 Minute                       |                           | 5 Minute                       |                           | 10 Minute                      |                           |
|                                    |                          | Measured<br>Frequency<br>(MHz) | Frequency<br>Drift<br>(%) | Measured<br>Frequency<br>(MHz) | Frequency<br>Drift<br>(%) | Measured<br>Frequency<br>(MHz) | Frequency<br>Drift<br>(%) | Measured<br>Frequency<br>(MHz) | Frequency<br>Drift<br>(%) |
| 20                                 | 138                      | 5179.9939                      | -0.00012                  | 5179.9944                      | -0.00011                  | 5179.9919                      | -0.00016                  | 5179.9915                      | -0.00016                  |
|                                    | 120                      | 5179.9945                      | -0.00011                  | 5179.9943                      | -0.00011                  | 5179.9925                      | -0.00014                  | 5179.9921                      | -0.00015                  |
|                                    | 102                      | 5179.9941                      | -0.00011                  | 5179.9953                      | -0.00009                  | 5179.9916                      | -0.00016                  | 5179.9922                      | -0.00015                  |

## 4.7 6dB Bandwidth Measurement

### 4.7.1 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is 0.5MHz.

### 4.7.2 Test Setup



### 4.7.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

### 4.7.4 Test Procedure

#### Measurement Procedure REF

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

### 4.7.5 Deviation from Test Standard

No deviation.

### 4.7.6 EUT Operating Condition

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

#### 4.7.7 Test Results

##### 802.11a

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------------------|-------------|
| 149     | 5745            | 16.32               | 0.5                 | Pass        |
| 157     | 5785            | 16.37               | 0.5                 | Pass        |
| 165     | 5825            | 16.12               | 0.5                 | Pass        |

##### 802.11n (HT20)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------------------|-------------|
| 149     | 5745            | 16.56               | 0.5                 | Pass        |
| 157     | 5785            | 16.96               | 0.5                 | Pass        |
| 165     | 5825            | 16.67               | 0.5                 | Pass        |

##### 802.11n (HT40)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------------------|-------------|
| 151     | 5755            | 35.36               | 0.5                 | Pass        |
| 159     | 5795            | 35.35               | 0.5                 | Pass        |

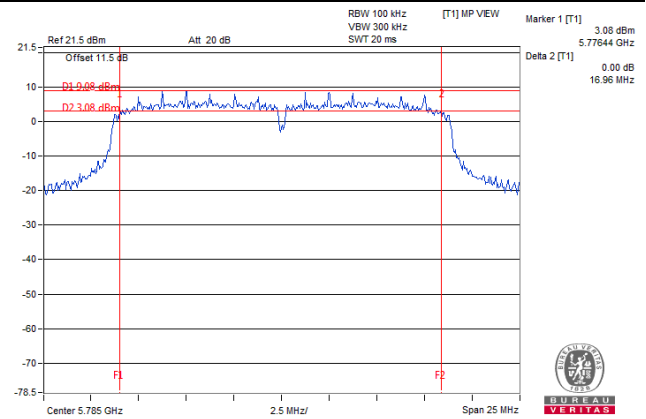
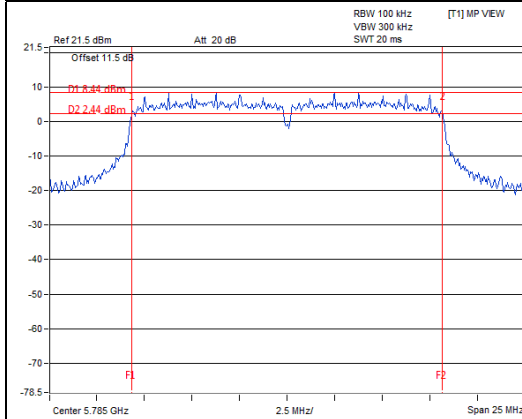
##### 802.11ac (VHT80)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------------------|-------------|
| 155     | 5775            | 75.29               | 0.5                 | Pass        |

## Spectrum Plot of Worst Value

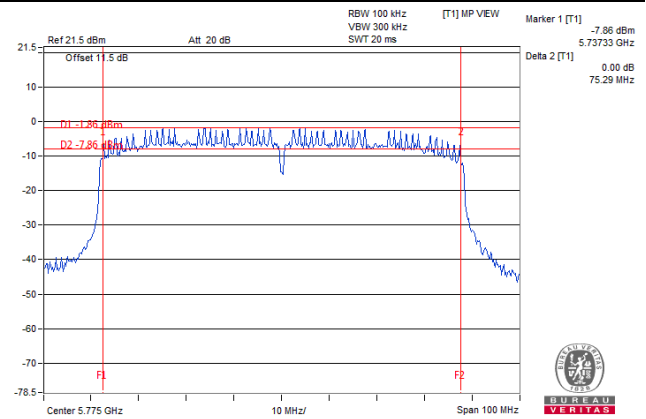
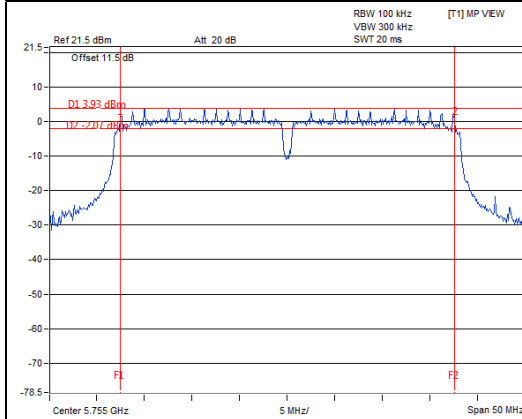
802.11a

802.11n (HT20)



802.11n (HT40)

802.11ac (VHT80)



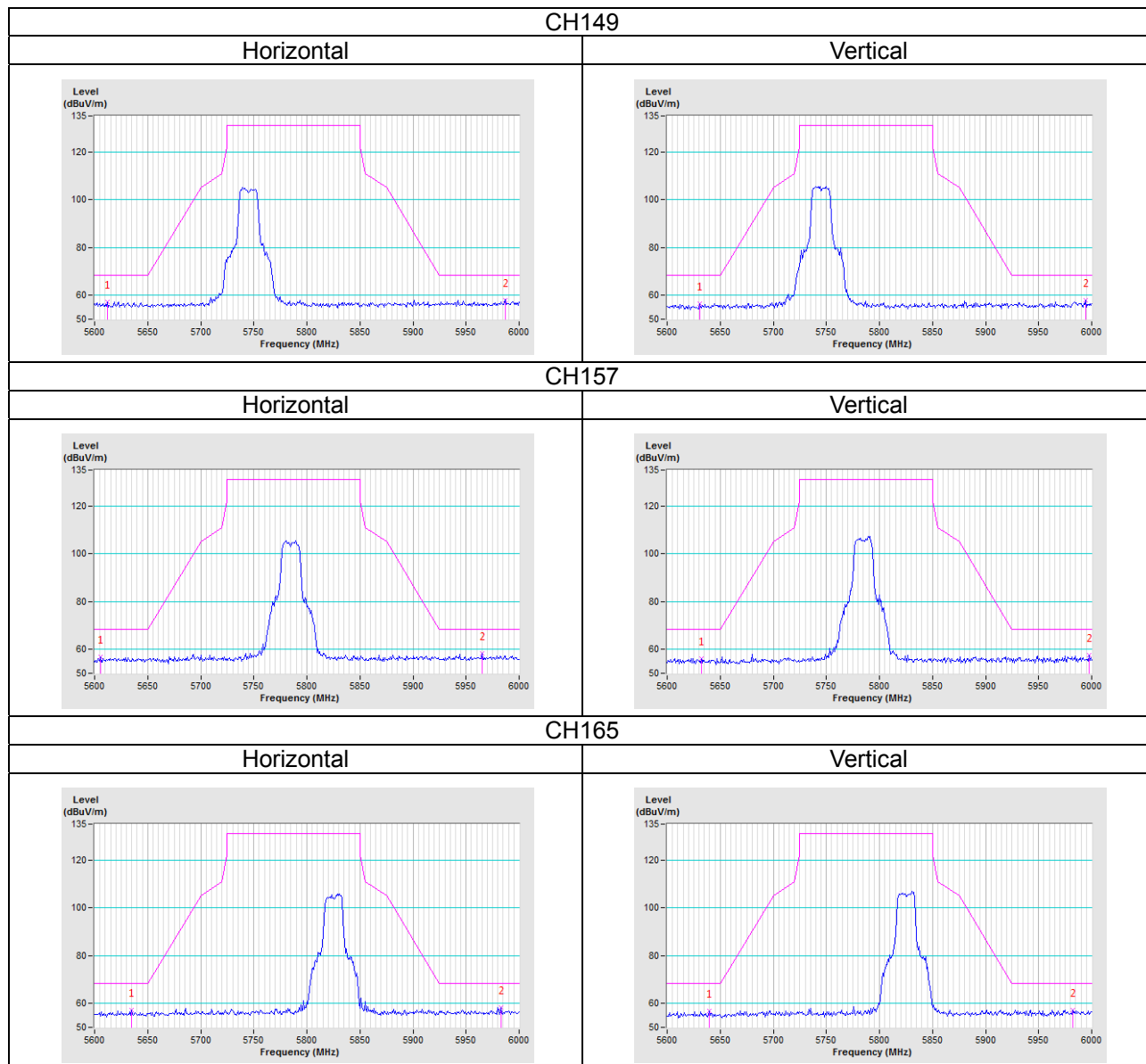
## 5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

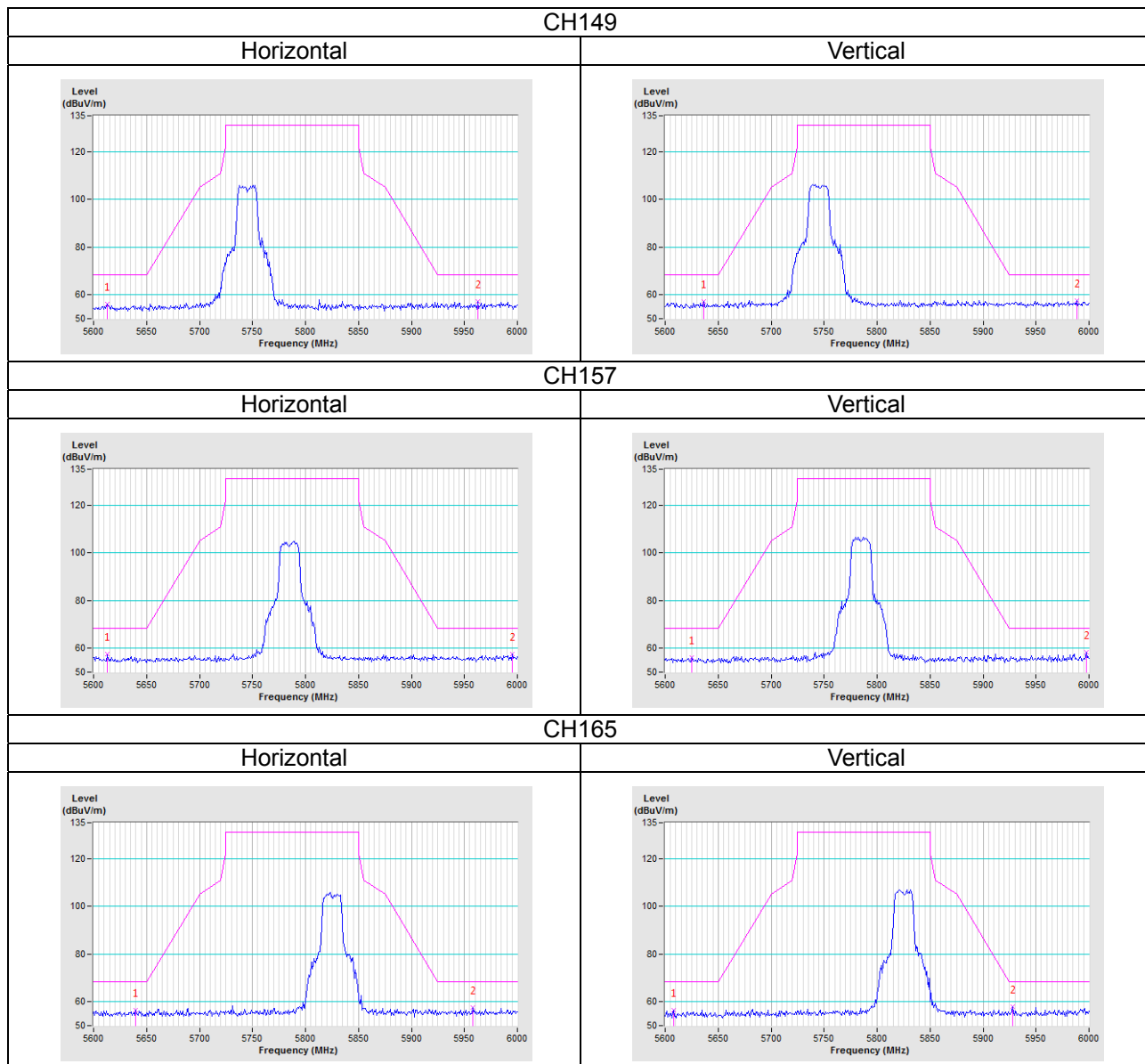
# Annex A- Radiated Out of Band Emission (OOBE) Measurement (For U-NII-3 band)

## Test Mode A

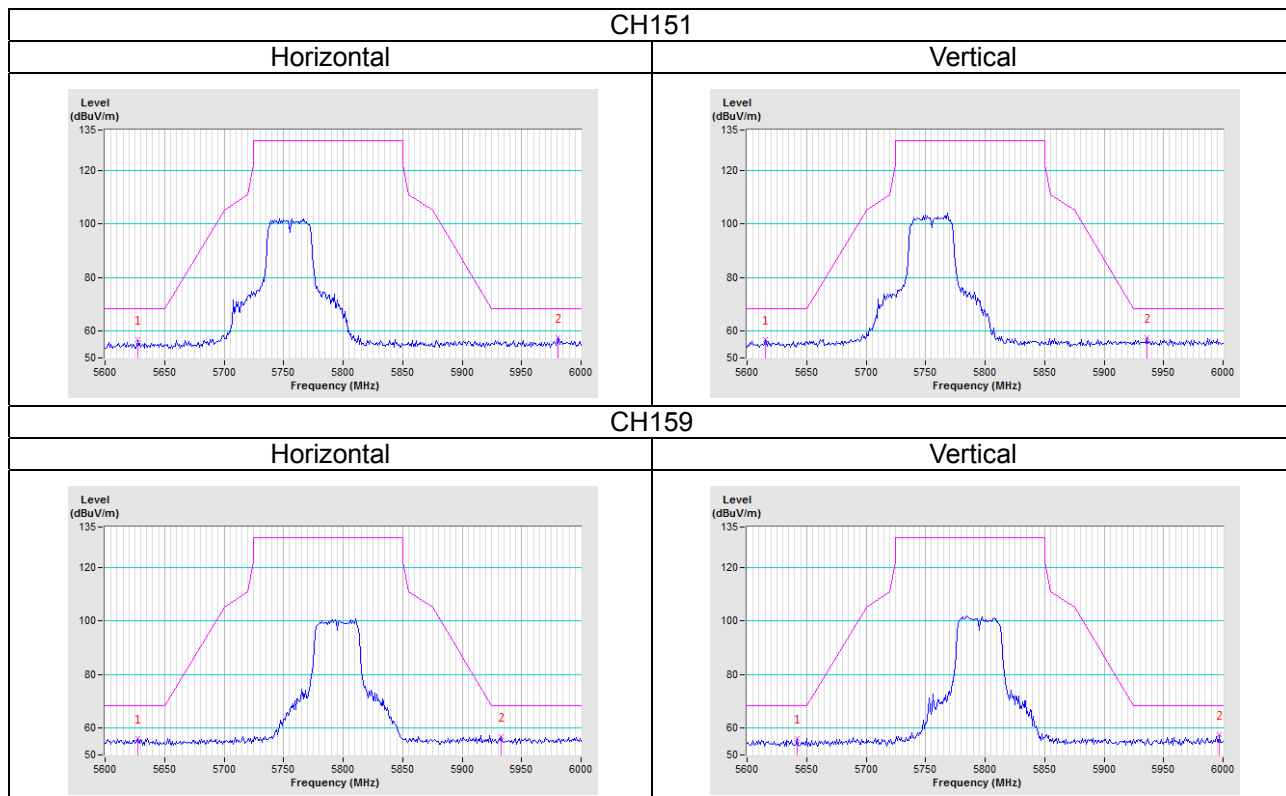
802.11a



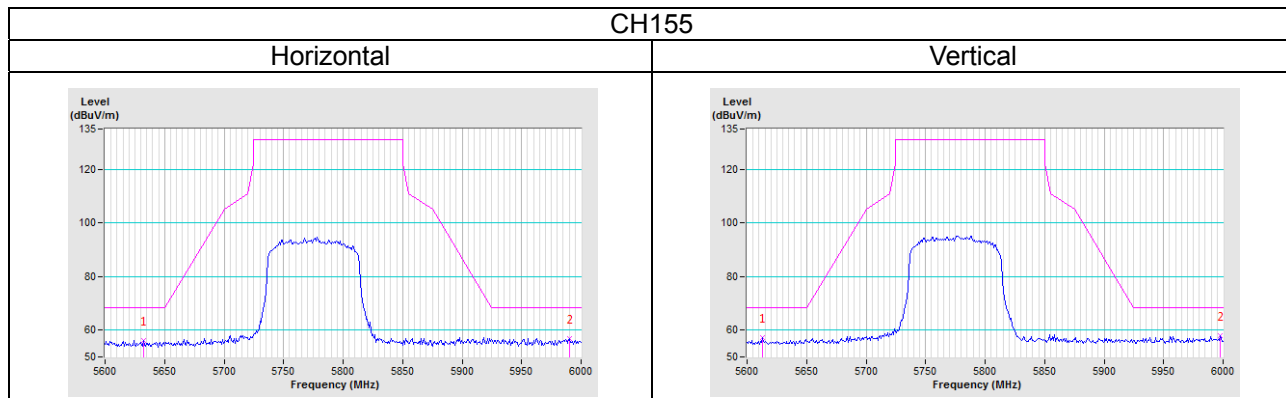
802.11n (HT20)



# 802.11n (HT40)

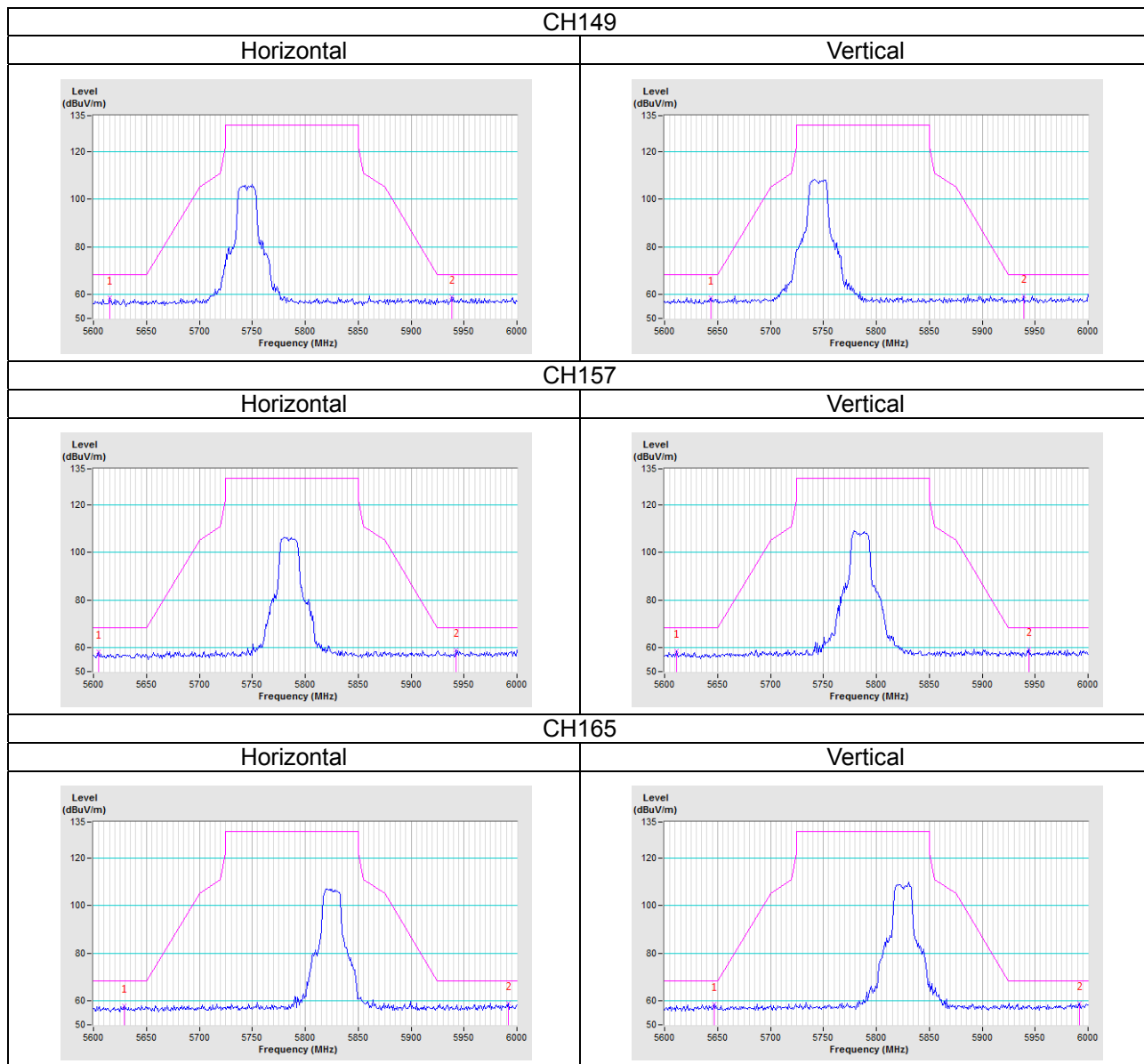


# 802.11ac (VHT80)

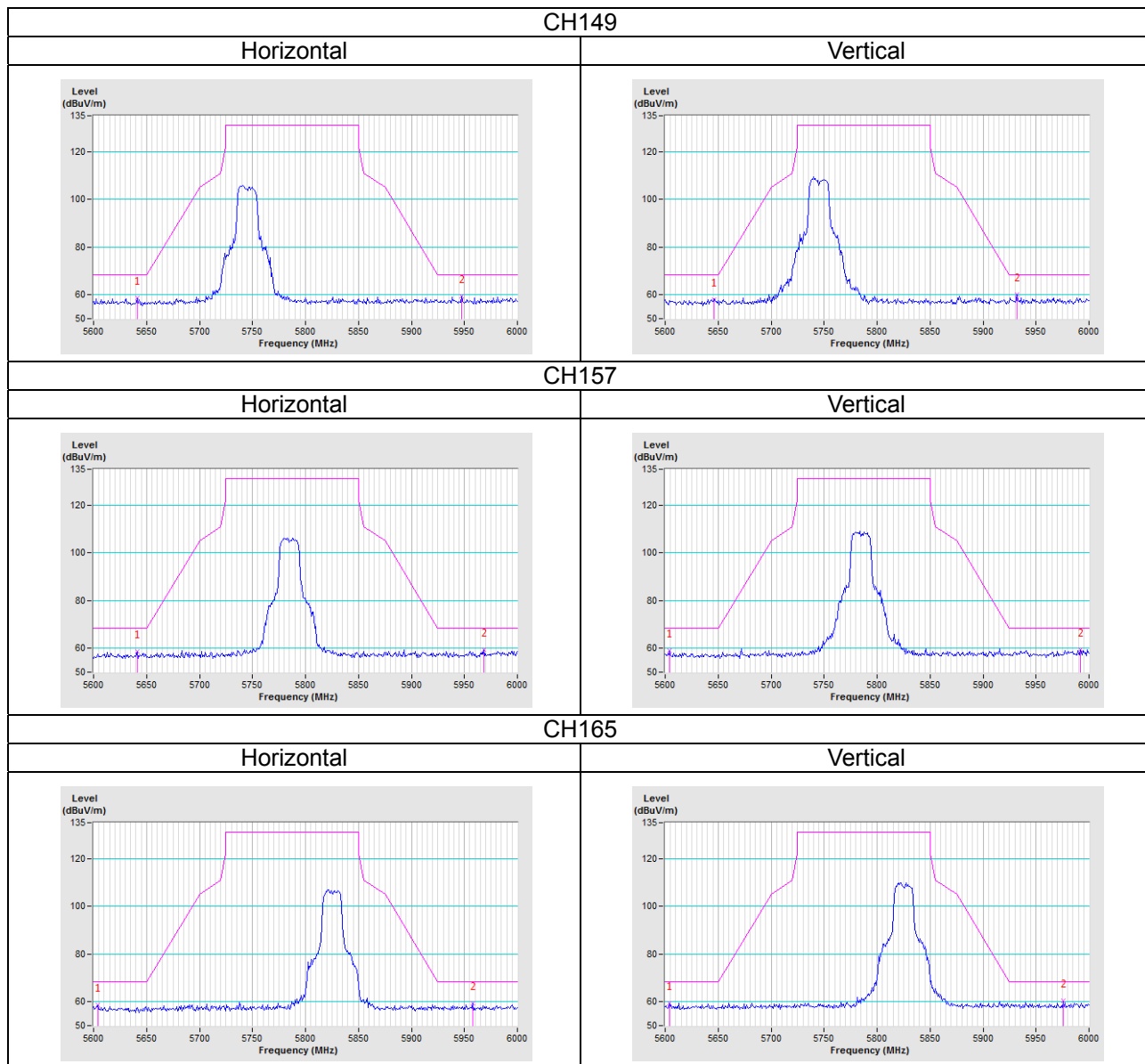


# Test Mode B

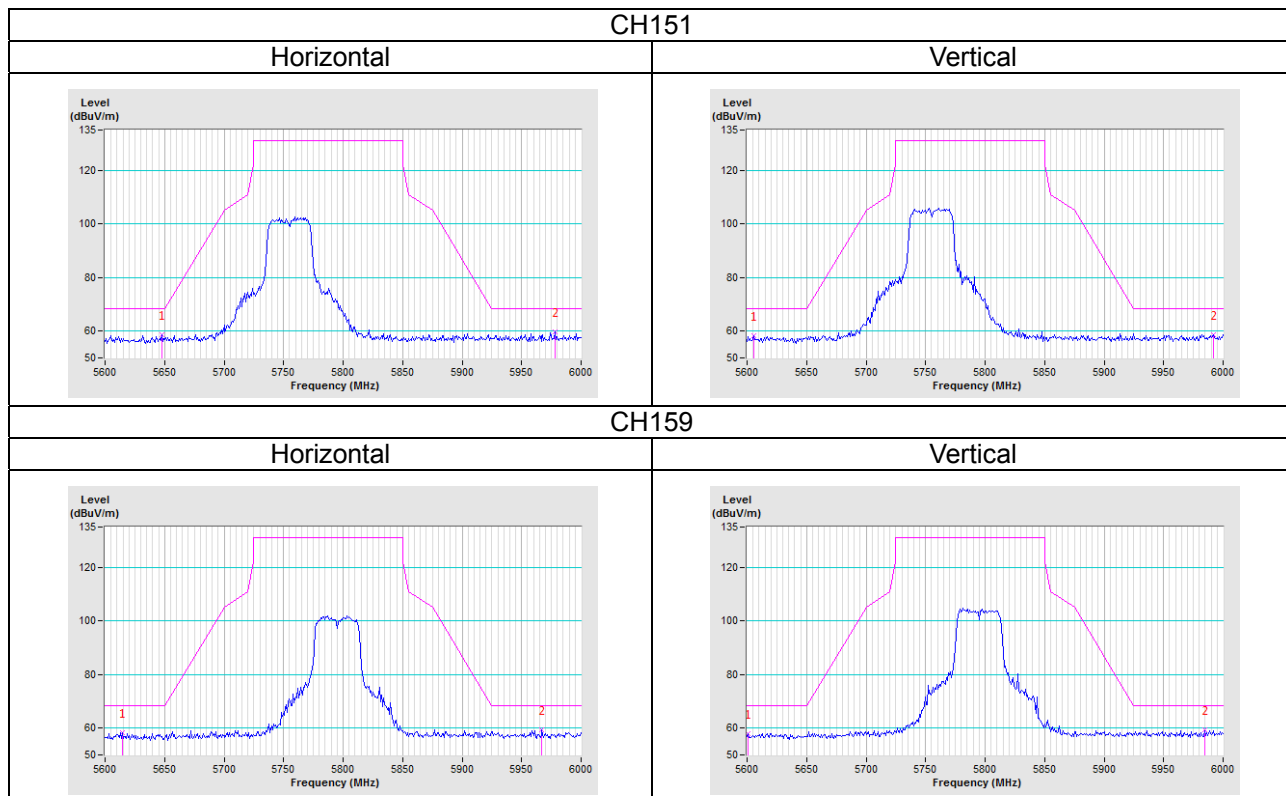
802.11a



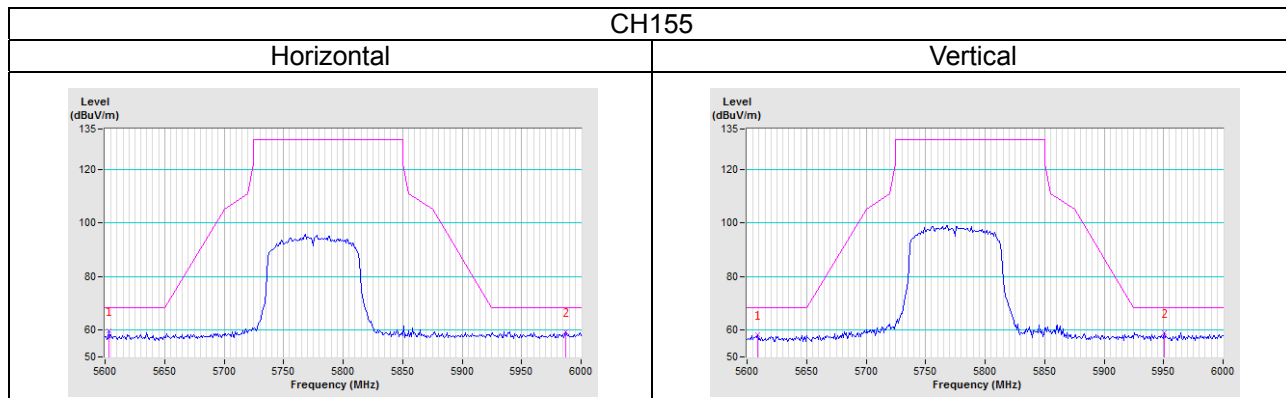
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



## Appendix – Information on the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

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The address and road map of all our labs can be found in our web site also.

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